Southwest Alabama Regional Multi-Jurisdictional Hazard Mitigation Plan: Phase II

A Hazard Mitigation Plan for AEMA Division A Counties: Baldwin County, Escambia County and Mobile County and all Eligible Local Jurisdictions

The preparation and publication of this plan was funded in part by a FEMA grant under the Pre-Disaster Mitigation Grant Program awarded to the South Alabama Regional Planning Commission.

Table of Contents

			Page
Hazard Mit	igation	Plan Introduction	i
Part II. Divi	ision A-	-SARPC Planning Area	
Section 1	Regi	onal Profile	1
	1.1 1.2 1.3 1.4 1.5	Background Demographics Business and Industry Infrastructure Land Use and Development Trends	
Section 2	Plan	ning Process	15
	2.1 2.2 2.3 2.4 2.5	Hazard Mitigation Planning Process	
Section 3	Risk	Assessment	25
	3.1 3.2 3.3 3.4 3.5	Hazard Overview Hazard Profiles 3.2.1. Dam/Levee Failure 3.2.2. Drought/Extreme Heat 3.2.3. Earthquakes 3.2.4. Flooding 3.2.5. High Winds (Hurricanes) 3.2.6. High Winds (Tornados) 3.2.7. High Winds/Severe Thunderstorms (Hail/Lightning) 3.2.8. Landslides 3.2.8.1. Land Subsidence/Sinkholes 3.2.9. Tsunamis 3.2.10. Wildfires 3.2.11. Winter Storms Vulnerability Summary by Jurisdiction Probability of Future Occurrence and Loss Estimation Hazard Impacts	

Section 4	Mitiga	ation Strategy	251
	4.1 4.2 4.3 4.4 4.5	Mitigation Planning Process Regional Mitigation Goals Regional Mitigation Strategies Capabilities Assessment for Local Jurisdictions Jurisdictional Mitigation Action Plans 4.5.1 SARPC Mitigation Actions 4.5.2 SARPC Region Jurisdiction Action Plans Baldwin County – see Appendix A Escambia County – see Appendix B Mobile County – see Appendix C	
Section 5	Plan N	Maintenance Process	267
	5.1 5.2 5.3	Hazard Mitigation Monitoring, Evaluation, and Update Process Hazard Mitigation Plan Incorporation Public Awareness/Participation	
Appendix A:	Baldw	in County Community Action Plans	
	A.13 A.14 A.15 A.16	Baldwin County City of Bay Minette City of Daphne Town of Elberta City of Fairhope City of Foley City of Gulf Shores Town of Loxley Town of Magnolia Springs City of Orange Beach Town of Perdido Beach City of Robertsdale Town of Silverhill City of Spanish Fort Town of Summerdale Baldwin County Board of Education	
Appendix B:	Escam	bia County Community Action Plans	
	B.1 B.2 B.3 B.4 B.5 B.6	Escambia County City of Atmore City of Brewton City of East Brewton Town of Flomaton Town of Pollard	

- B.7 Town of Riverview
- B.8 Poarch Creek Tribe

Appendix C: Mobile County Community Action Plans

- C.1 Mobile County
- C.2 City of Bayou La Batre
- C.3 City of Chickasaw
- C.4 City of Citronelle
- C.5 City of Creola
- C.6 Town of Dauphin Island
- C.7 City of Mobile
- C.8 Town of Mount Vernon
- C.9 City of Prichard
- C.10 City of Saraland
- C.11 City of Satsuma
- C.12 City of Semmes
- C.13 Mobile County Public School System

Hazard Mitigation Plan Introduction

Plan Scope

The Regional Multi-Jurisdictional Hazard Mitigation Plan is intended to identify and detail the hazards that affect the Alabama Emergency Management Agency's (AEMA) Division A. This division includes the following counties and the municipalities and jurisdictions within them: Baldwin, Choctaw, Clarke, Conecuh, Escambia, Mobile, Monroe, and Washington. This plan will be the first regional mitigation plan for the area. Currently, each county is covered by a multijurisdictional county plan. A regional plan provides this information in a more concise and effective manner. A regional planning process provides an opportunity for participants to discuss and identify mitigation strategies to address identified hazards.

Authority

Hazard mitigation plans are a requirement of Section 409 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act (public Law 93-228, as amended), Title 44 Code of Federal Regulations, as amended by Part 201 of the Disaster Mitigation Act of 2000. All state and local governments must develop a Hazard Mitigation Plan as a condition of receiving non-emergency federal disaster assistance including hazard mitigation grant program (HMGP), pre-disaster mitigation (PDM), and flood mitigation assistance (FMA) program funds.

Funding

Funding for the AEMA Division A Regional Multi-Jurisdictional Hazard Mitigation Plan was provided through the Hazard Mitigation Grant Program (HMGP), under Disaster Recovery Declaration 4349, (DR-4349).

Purpose

The purpose of the Division A Multi-Jurisdictional Hazard Mitigation Plan is to evaluate and identify all prioritized hazards which may affect the region. Mitigation strategies that address each of the identified hazards are presented. This plan is only one of many steps Division A jurisdictions will take to achieve a safer, more hazard resistant environment for its residents.

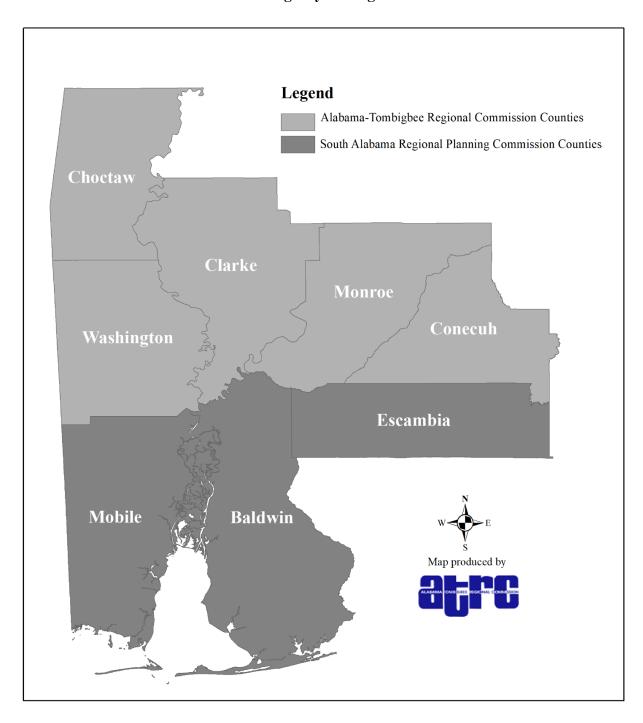
Planning Document Format

The *Division A Multi-Jurisdictional Hazard Mitigation Plan 2020* will be a multi-phase planning process. Clarke and Conecuh Counties will be included in Phase I. The remaining counties in the division will be incorporated as their current county plans expire. Choctaw County will not be part of the regional plan at this time and will continue to have a county mitigation plan.

Division A is served by two regional planning commissions, the Alabama-Tombigbee Regional Commission (ATRC) and the South Alabama Regional Planning Commission (SARPC) (Figure 1.1). ATRC serves Choctaw, Clarke, Conecuh, Monroe, and Washington Counties. SARPC serves Baldwin, Escambia, and Mobile Counties. There are considerable differences between the counties

served by ATRC and those served by SARPC. Due to these differences and the phased planning process, the Division A plan will be divided into two parts: Division A-ATRC Region and Division A-SARPC Region.

Alabama Emergency Management Division A



Section 1. SARPC Planning Area Profile

Section Contents

- Background 1.1
- 1.2
- Demographics
 Business and Industry 1.3
- 1.4 Infrastructure
- 1.5 Land Use and Development Trends

1.1 Background

The planning area for this part of the plan, Phase II, is the Alabama Emergency Management Agency (AEMA) Division A counties served by the South Alabama Regional Planning Commission. Counties included in the planning area are Baldwin, Escambia, and Mobile. Within these three counties there are 29 municipalities. The other counties in AEMA's Division A include Clarke, Conecuh, Monroe, and Washington, who are served by the Alabama Tombigbee Regional Commission. Phase I of this multi-jurisdictional hazard mitigation plan includes Clarke and Conecuh Counties only. A subsequent update will include the remaining counties of Monroe and Washington, as they are currently covered by individual county mitigation plans.

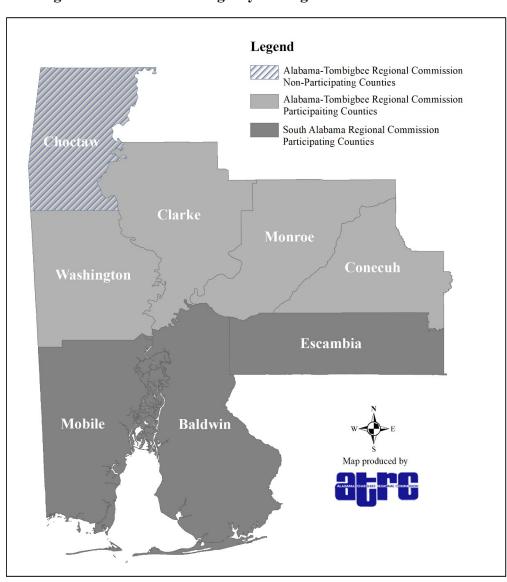


Figure 1.1 Alabama Emergency Management Division A Counties

The largest county in the planning area is Baldwin County, which is 1,590 square miles in size, making it the largest county in the state by land area. Mobile County is the fourth largest county in the state by population. The total land area of this three-county area is 3,764.3 square miles, which is approximately 7.4% of the state's total land area. Table 1.1 provides the total area and population density of each county located within the planning area.

Table 1.1 Total Area by County

County	Total Area	Population per Square Mile
Baldwin	1,589.78	114.6
Escambia	945.08	40.5
Mobile	1,229.44	339.5

Source: U.S. Census Bureau

The entire expanse of the planning area lays within the East Gulf Coastal Plain physiographic region (Figure 1.2). This area developed on geologically young Mesozoic to Recent (from about 140 million years ago to the present) sedimentary rocks and sediment. Geologic units are composed of mainly of sediments and can be described as gravels, sands, silts, and clays. The Coastal Plain is flat and relatively featureless in some areas, but elsewhere it consists of as cuestas and flatwoods. Floodplains are located along the Alabama, Escatawpa, Tombigbee, and Sepulga river systems.

PHYSIOGRAPHIC REGIONS HIGHLAND RIM FLH Tennessee Valley Little Mountain HIGHLAND RIM Moulton Valley CUMBERLAND PLATEAU JCM Jackson County Mountains LOOK MANAGE LET AND RIDE SM Sand Mountain Sequatchie Valley **Blount Mountain** MV Murphrees Valley Wills Valley Lookout Mountain ALABAMA VALLEY AND RIDGE COV Coosa Valley COR Coosa Ridges Weisner Ridges Cahaba Valley NTUPLAND Cahaba Ridges Birmingham-Big Canoe Valley Armuchee Ridges PIEDMONT UPLAND Northern Piedmont Upland SP Southern Piedmont Upland EAST GULF COASTAL PLAIN Fall Line Hills Black Prairie Chunnenuagee Hills Southern Red Hills Flatwoods Subdistrict Buhrstone Hills Subdistrict Lime Hills Hatchetigbee Dome Subdistrict SPH Southern Pine Hills Dougherty Plain Coastal Lowlands Alluvial-deltaic Plain District boundary Region boundary

Figure 1.2 Physiographic Regions of the State of Alabama

Source: http://alabamamaps.ua.edu/contemporarymaps/alabama/physical/al_physio.pdf, Last accessed 1/12/2020.

A number of rivers flow through the planning area (Figure 1.3). The Escatawpa River, a tributary of the Pascagoula River, flows in a southerly direction in the western part of Mobile County, before crossing the border into Mississippi. The Alabama and Tombigbee Rivers combine to form the Mobile River approximately 50 miles north of Mobile. The Tensaw River, a tributary of the Mobile River, flows almost parallel to the east, through Baldwin County. Both rivers empty into the Mobile-Tensaw River Delta, which flows into Mobile Bay. The Conecuh River originates in the east central part of the state and flows generally southwest, through Escambia County, before joining the Escambia River in Escambia County Florida, south of Alabama.



Figure 1.3 Map of Major Rivers in Alabama

Source: https://geology.com/lakes-rivers-water/alabama.shtml Last accessed 1/12/2020.

1.2 Demographics

According to a population estimate (as of July 1, 2019) from the U.S. Census, the total population of the planning area is 633,576 people. This population spans over a total area of 3,764.3 square miles. The populations of the counties in the planning area varies. Table 1.2 provides population counts for all jurisdictions in the SARPC planning area for AEMA Division A from the 2010 Census and the 2019 American Community Survey.

Table 1.2 Division A-SARPC Planning Area Population Change

	2010 CENSUS	2019 ACS	% Change
Baldwin County	182,265	208,107	14.18%
Bay Minette	8,044	9,089	12.99%
Daphne	21,570	25,361	17.58%
Elberta	1,498	1,741	16.22%
Fairhope	15,326	20,327	32.63%
Foley	14,618	17,818	21.89%
Gulf Shores	9,741	12,033	23.53%
Loxley	1,632	2,077	27.27%
Magnolia Springs	723	815	12.72%
Orange Beach	5,441	5,927	8.93%
Perdido Beach	581	550	-5.34%
Robertsdale	5,276	6,521	23.60%
Silverhill	706	633	-10.34%
Spanish Fort	6,798	8,324	22.45%
Summerdale	862	1,026	19.03%
Escambia County	38,319	37,328	-2.59%
Atmore	10,194	9,746	-4.39%
Brewton	5,408	5,263	-2.68%
East Brewton	2,478	2,963	19.57%
Flomaton	1,440	1,695	17.71%
Pollard	137	198	44.53%
Riverview	184	85	-53.80%
Mobile County	412,992	414,659	0.40%
Bayou La Batre	2,558	2,527	-1.21%
Chickasaw	6,106	5,837	-4.41%
Citronelle	3,905	3,911	0.15%
Creola	1,926	1,887	-2.02%
Dauphin Island	1,238	1,229	-0.73%
Mobile	195,111	191,485	-1.86%
Mount Vernon	1,574	1,243	-21.03%
Prichard	22,659	21,927	-3.23%
Saraland	13,405	14,268	6.44%

Table 1.2 Division A- SARPC Planning Area Population Change (Continued)

	2010 CENSUS	2019 ACS	% Change
Satsuma	6,168	6,151	-0.28%
Semmes*	NA	4,869	NA

Source: U.S. Census Bureau (2010 and 2019)

Racial and ethnic characteristics from the 2019 U.S. Census estimates are provided by county in Table 1.3. The median age for the planning area is 43.25 years.

Table 1.3 Racial and Ethnic Demographics by County

	White	Black	Other	Hispanic
Baldwin	86.2%	9.3%	2.0%	4.6%
Escambia	62.2%	32.1%	4.7%	2.3%
Mobile	58.6%	35.8%	3.8%	2.9%

Source: U.S. Census Bureau (2019 Estimates)

Housing information estimates, including more vulnerable housing such as mobile homes and aging housing, are presented in Table 1.4.

Table 1.4 Housing Demographics by County

County	Occupied Housing Units	% Mobile Homes	% Over 35 years old
Baldwin	80,930	11.1%	21.6%
Escambia	13,089	18.4%	34.7%
Mobile	156,251	53.1%	53.1%

Source: US Census Bureau American Community Survey 2019 5 Year Estimates

Unemployment rates for counties in the planning area vary. For 2019, average unemployment rates vary from a low of 2.7% in Baldwin County to a high of 3.7% in Mobile County. Table 1.5 provides unemployment rates by county.

^{*}The City of Semmes was not incorporated until 2011.

^{*}Hispanic population may be of any race.

Table 1.5 Average Unemployment Rates by County

County Average Unemployment Rate (2		
Baldwin	2.7%	
Escambia	3.5%	
Mobile	3.7%	

Source: Alabama Department of Labor (2019)

1.3 Business and Industry

Division A has a wide variety of both commercial and industrial stakeholders. The SARPC planning region is largely accessible via two major interstates, I-10 and I-65. The region includes a number of navigable inland waterways, local airports, and railroad lines. Within the planning region, the economic base relies heavily on agriculture, manufacturing, retail, healthcare, and tourism.

Table 1.6 Largest Employers in AEMA Division A-SARPC Planning Area

BALDWIN CO March 2020 (700-4500 emps)	BALDWIN CO June 2020 (700-4500 emps)
BALDWIN COUNTY BOARD OF EDUCA-	BALDWIN COUNTY BOARD OF EDUCA-
TION	TION
GULF HEALTH HOSPITALS INC	GULF HEALTH HOSPITALS INC
ROHR INDUSTRIES INC	PUBLIX ALABAMA LLC
SOUTH BALDWIN REGIONAL MEDICAL	ROHR INDUSTRIES INC
CENTER	
WAL MART ASSOCIATES INC	WAL MART ASSOCIATES INC
ESCAMBIA CO March 2020 (300-800 emps)	ESCAMBIA CO June 2020 (400-800 emps)
CREEK CASINO	CREEK CASINO
ESCAMBIA COUNTY BOARD OF EDUCA-	ESCAMBIA COUNTY BOARD OF EDUCA-
TION	TION
GEORGIA PACIFIC BREWTON LLC	GEORGIA PACIFIC BREWTON LLC
POARCH BAND OF CREEK INDIANS	POARCH BAND OF CREEK INDIANS
WAL MART ASSOCIATES INC	WAL MART ASSOCIATES INC
MOBILE CO March 2020 (2200-7800 emps)	MOBILE CO June 2020 (2200-7800 emps)
AUSTAL USA LLC	AUSTAL USA LLC
CITY OF MOBILE	CITY OF MOBILE
MOBILE EDUCATION BOARD	MOBILE EDUCATION BOARD
UNIVERSITY OF SOUTH ALABAMA	UNIVERSITY OF SOUTH ALABAMA
WAL MART ASSOCIATES INC	WAL MART ASSOCIATES INC

Source: Alabama Department of Labor

It should be noted that all industries mentioned are susceptible to the natural hazards that occur in the entire planning region. The severity and impact of a loss of an industry is directly associated with the type of business and size of the facility.

1.4 Infrastructure

<u>Transportation</u>

The SARPC portion of Division A has two interstates and many major federal and state highways, which serve as major trucking and evacuation routes for the region, linking it to the rest of the country. In addition to federal and state routes, there are numerous county and local routes that connect the communities in the region. The federal and state highways are listed below along with the counties in which they are located.

Table 1.7 Federal and State Highways in Division A-SARPC Planning Area

Highway Name	County Location
Interstate 10	Baldwin and Mobile
Interstate 65	Escambia, Baldwin and Mobile
Interstate 165	Mobile
US 29	Escambia
US 31	Baldwin and Escambia
US 43	Mobile
US 45	Mobile
US 90	Baldwin and Mobile
US 98	Baldwin and Mobile
AL 21	Escambia
AL 41	Escambia
AL 59	Escambia and Baldwin
AL 113	Escambia
AL 158	Mobile
AL 181	Baldwin
AL 287	Baldwin

SARPC Division A counties house several airports. Mobile Regional Airport is located in the western part of Mobile County, and Brookley Field is located in southern Mobile County. There are four municipal airports in Baldwin County, located in Bay Minette, Fairhope, Foley, and Gulf Shores. Escambia County has municipal airports in Brewton and Atmore.

There are four railroads within the SARPC Division A planning area (Figure 1.4). Class I railroads have annual carrier operating revenues of \$250 million or more in 1991 dollars, which adjusted for inflation was \$452,653,248 in 2012. There is two Class I railroad in the planning area. One is operated by CSX and runs through Baldwin, Escambia, and Mobile Counties. The second is operated by Canadian National/Illinois Central and runs through Mobile County. A Class II railroad is mid-sized in terms of operating revenue, and as of 2011, a railroad with revenues greater than \$37.4 million but less than \$433.2 million for at least three consecutive years was considered Class

II. The Alabama & Gulf Coast Railroad, LLC operates two Class II railroad lines in the region. One is located in Mobile County, and the other one runs through Escambia County. A Class III railroad has an annual operating revenue of less than \$20 million. They are typically local short-line railroads serving a small number of towns and industries or hauling cars for one or more railroads. There is one Class III railroad in the planning area, operated by the Alabama Railroad Company and is located in Escambia County.



Figure 1.4 Railroads in Alabama

Utilities

Alabama Power provides electricity to the region either directly or through one of several power distributors, such as Baldwin Electric Cooperative, Riviera Utilities, and Southern Pine Electric Cooperative.

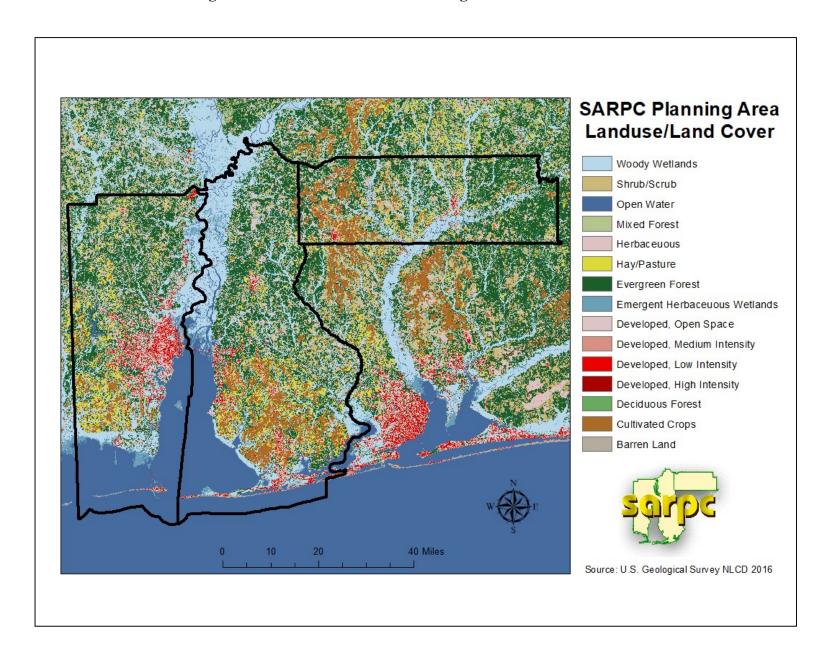
Water and sewer services are provided through municipal and county utility authorities. Most populated areas in the planning region have public water service, where there are only a few instances of areas that have no connection. The majority of the unincorporated areas throughout the region rely on septic systems for disposal of sewage and wastewater.

Natural Gas is provided by municipal and county authorities as well as the Clarke-Mobile Gas District (Baldwin, Escambia and Mobile), South Alabama Utilities (Mobile), Riviera Utilities (Baldwin) and the South Alabama Gas District (Escambia).

1.5 Land Use and Development Trends

The counties served by SARPC in Division A are cover a wide variety of land uses (Figure 1.5). Other than the City of Mobile, in Mobile County, the area consists of numerous small towns, forests, wetlands, and agricultural land. The University of Alabama's Center for Business and Economic Research publishes projection estimates for the state. In the past few decades, Baldwin County has been one of the fastest growing counties in Alabama, and is projected to grow steadily over the next twenty years. The population of Escambia County is projected to slightly decline over the same time period, and the population of Mobile County is projected to increase, but at a lesser rate than Baldwin County. Projections for metropolitan areas show Mobile and Daphne/Fairhope/Foley both increasing over the next 20 years. Historically, other areas in SARPC's region A have not seen much growth and are not projected to grow much.

Figure 1.5 Division A-SARPC Planning Area Land Use/Land Cover



PAGE INTENTIONALLY LEFT BLANK.

Section 2- SARPC Planning Process

This section of the plan addresses the requirements of Section 201.6 (c)(1) by providing the planning process that was used to develop the plan, including how the plan was prepared, who was involved in the process and how the public participated.

Section Contents

- 2.1 Multi-Jurisdictional Plan Adoption
- 2.2 Multi-Jurisdictional Plan Participation
- 2.3 Hazard Mitigation Planning Process
- 2.4 Public and Other Stakeholder Involvement
- 2.5 Integration with Existing Plans

2.1 Multi-Jurisdictional Plan Adoption

Each of the participating jurisdictions will adopt the plan once it is deemed "approvable pending adoption" by the Federal Emergency Management Agency (FEMA). Eligible jurisdictions include regional planning councils, local governing bodies including municipal councils, county commissions and local school districts as well as other public or private entities. As applicable within each county, other entities may include health systems, fire associations and institutions of higher education that participated in the planning process and will adopt the Division A plan in order to be included as eligible applicants for FEMA HMA grant assistance.

2.2 Multi-Jurisdictional Planning Participation

All eligible jurisdictions in Baldwin, Escambia, and Mobile counties have participated in the development of the regional hazard mitigation plan. These jurisdictions participated according to the standards set forth by the Regional Hazard Mitigation Planning Committee. Table 2.1 provides a list of entities that will adopt the mitigation plan.

Table 2.1 Division A Plan Participants Adopting Plan

Baldwin County
Baldwin County
City of Bay Minette
City of Daphne
Town of Elberta
City of Fairhope
City of Foley
City of Gulf Shores
Town of Loxley
Town of Magnolia Springs
City of Orange Beach
Town of Perdido Beach
City of Robertsdale
Town of Silverhill
City of Spanish Fort
Town of Summerdale
Baldwin County Board of Educa-
tion
Escambia County
Escambia County
City of Atmore
City of Brewton
City of East Brewton
Town of Flomaton
Town of Pollard
Town of Riverview

Table 2.1 Division A Plan Participants Adopting Plan (Continued)

Mobile County
Mobile County
Mobile County Public School System
City of Bayou La Batre
City of Chickasaw
City of Citronelle
City of Creola
Town of Dauphin Island
City of Mobile
Town of Mount Vernon
City of Prichard
City of Saraland
City of Satsuma
City of Semmes

2.3 Hazard Mitigation Planning Process

This part of the AEMA Division A Multi-Jurisdictional Hazard Mitigation Plan was developed through interaction between AEMA, Division A EMA directors and the South Alabama Regional Planning Commission (SARPC). These entities comprised the Regional Hazard Mitigation Planning Committee. However, due to COVID-19 restrictions and shutdowns starting in March of 2020, the committee was forced to undertake the process in a different than usual manner, following National Center for Disease Control (CDC) and State of Alabama Emergency Health Guidelines. The SARPC staff worked with representatives from each of the three counties, Baldwin, Escambia, and Mobile to develop this regional hazard mitigation plan. This process involved the following:

- Review of previous local hazard mitigation plans
- Virtual meetings, and in-person when allowed, to discuss the plan, process and progress
- Coordination by County EMA's with local municipalities for input
- Completion of surveys by each jurisdiction as to completed and ongoing activities
- Completion of action plan by each jurisdiction
- Review of the draft plan

In development of the plan, hazard profiles were consolidated and updated for the regional scope of the plan. A risk analysis was conducted using historical and local documentation. County EMAs and SARPC worked with participants to update and finalize mitigation strategies. Plan drafts were distributed to stakeholders and local jurisdictions for review and posted on the internet. The draft plan was available for public comment before submission to AEMA/FEMA and adoption by each jurisdiction.

Table 2.2 Jurisdiction Representatives

Jurisdiction	Primary Contact/Title	Attended Meetings	Provided Written Comments	Phone, email or other means of contact
Baldwin County Commission	Danon Smith, EMA Planning & Grants Division Manager	X		
Baldwin County Commission	Zach Hood, EMA Director	X		
Baldwin County Commission	Eddie Harper, Baldwin County Building Official & Floodplain Manager	X		
Baldwin County Commission	DJ Hart, CRS Coordinator (Planning & Zoning)	X		
Baldwin County Board of Educa- tion	Anthony Sampson, Director of Prevention & Support Services	X		
City of Bay Minette	Michael Minchew, Fire Chief/Emergency Man- agement Coordinator	X		
City of Daphne	Eric Butler, Building Official	X		
Town of Elberta	Jim Hamby, Mayor	X		
Town of Elberta	Caryn Woerner, Town Clerk	X		
City of Fairhope	Erik Cortinas, Building Official	X		
City of Foley	Rachel Keith, Project & Risk Manager/EMA Di- rector	X		
City of Gulf Shores	Brandan Franklin, Build- ing Official/Floodplain Administrator	X		
Town of Loxley	Robert Davis, Superintendent of Utilities	X		

Jurisdiction	Primary Contact/Title	Attended Meetings	Provided Written Comments	Phone, email or other means of contact
Town of Magnolia Springs	Kim Koniar, Mayor			X
Town of Magnolia Springs	Hannah Driskell, Town Clerk			X
City of Orange Beach	Landon K. Smith, Building Official (left City in May 2021)	X		
City of Orange Beach	Nicole Woerner, Grants Manager/Coastal Re- sources	X		
Town of Perdido Beach	Kay Hamilton, Mayor			
City of Rob- ertsdale	Greg Smith, City Engineer	X		
City of Rob- ertsdale	Scott Gilbert, Public Works Director	X		
Town of Silverhill	Jared Lyles, Mayor	X		
Town of Spanish Fort	Chester Patterson, Building Official	X		
Town of Summerdale	Tiffany Lynn, Town Clerk	X		
Town of Summerdale	Kevin Brock, Police Chief			X
Escambia County Commission	David Adams, EMA Director	X		
City of Atmore	Chris Black, Code Enforcement	X		

Jurisdiction	Primary Contact/Title	Attended Meetings	Provided Written Comments	Phone, email or other means of contact
City of Brewton	Brooke Hartin, City Clerk	X		
City of East Brewton	Kristy Edwards, City Clerk	X		
Town of Flomaton	Shaun Moye, Superintendent	X		
Town of Pollard	Valeria Osby, Mayor			X
Town of River- view	Lisa Marie McCall			X
Mobile County Commission	Tina Sanchez, Director of Environmental Services Eddie Kerr, Deputy Administrator	X		
City of Bayou La Batre	Terry Downey, Mayor	X		
City of Chickasaw	Jessica Veals, City Clerk	X		
City of Citronelle	Jason Stringer, Mayor Lori Bryan, City Clerk	X		
City of Creola	John White, Consultant	X		
Town of Dauphin Island	Wanda Sandagger, City Clerk	X		
City of Mobile	Janic Terry, Engineering Department	X		
Town of Mount Vernon	Tina Dillard, City Clerk	X		

Jurisdiction	Primary Contact/Title	Attended Meetings	Provided Written Comments	Phone, email or other means of contact
City of Prichard	Davis Hale, Chief, Prichard Fire Department	X		
City of Saraland	Shane Lovitte, Chief, Saraland Fire/Rescue	X		
City of Satsuma	J Elmore, Public Works Supervisor Tom Briand, Building In- spector	X		
City of Semmes	Leticia Fultz, EMA Coordinator	X		
Mobile County Public School System	Chuck Harben, Supervisor of Accounts Payable and Risk Management	X		
Mobile County Health Depart- ment	Erin Coker, Emergency Preparedness Director Brittany Edmondson, Emergency Preparedness	X		
Mobile County Communication District	Charlie McNichol, Deputy Director	X		
VOAD	Mike Dillibar	X		
MAWSS	Charles Hyland, Director	X		

2.4 Public and Other Stakeholder Involvement

Opportunity for public comment was provided in multiple ways. All county stakeholder meetings were open to the public and advertised in the local newspaper. Most of these meetings were held virtually, due to the COVID-19 pandemic, but were advertised and open to the public. The draft plan was made available for review, with a minimum of a two-week comment period prior to submission. An additional public hearing will be held by each adopting jurisdiction prior to adoption of the approvable plan. Each county EMA, and jurisdiction posted the draft on their websites (where possible), and copies were available in public facilities. No comments were received during or after posting the plan.

The public was informed of the hazard mitigation planning process and invited and encouraged to attend meetings through various media announcements, including but not limited to newspaper notices and advertisements, social media, community events, and local postings. As part of the state's transition to develop mitigation plans based on AEMA divisions, EMA directors and their stakeholders in neighboring communities were provided the opportunity to participate in the planning process of the Division A plan.

Documentation of stakeholder involvements, though limited, is included in Appendix D. Baldwin County EMA coordinated the hazard mitigation committee and held both in-person and virtual meetings which were open to the public and advertised on their website. In order to adhere to mandated health and safety protocols, Mobile and Escambia County EMA's, held zoom/conference calls and used individual outreach to jurisdictions and stakeholders, who in turn collected input and feedback from the public. In all three counties, public input was received since the prior plan was adopted and during this planning process was utilized by the jurisdictions when drafting their action plans. Future updates will work to incorporate additional public involvement, as described in Section 5.3.

The South Alabama Regional Planning Commission along with local EMA directors consulted with multiple stakeholders in formation of the plan including fire associations, utilities, medical facilities, and boards of education. These stakeholders were contacted via phone, mail, or email and invited to participate or provide information. SARPC also maintained direct contact with EMA directors, who then helped with gathering information, requesting input, and distributing information from and to the local jurisdictions. Many state and federal agencies were consulted via phone, email, or through websites, to provide data and information for this plan. Sources consulted are documented throughout the plan.

Again, due to the COVID-19 pandemic and the shutdowns and restriction imposed starting in March 2020, the typical planning process was altered. Baldwin County EMA submitted a letter, explaining their efforts for public awareness and to solicit public input.



Baldwin County Emergency Management Agency

23100 McAuliffe Drive, Robertsdale, Alabama 36567 (251) 972-6807 Fax # (251) 580-1616 Danon Smith, Planning & Grants Coordinator

February 25, 2021

Leslie Johnston, Planner South Alabama Regional Planning Commission 110 Beauregard St. Suite 207 P.O. Box 1665 Mobile, AL 36633

Dear Ms. Johnston:

I am writing this letter to recap the results of discussion during the February 25, 2021 Hazard Mitigation Planning Committee's Executive Committee Meeting of the best way to safely provide opportunity for public comment on the draft 2020-2021 Baldwin County Multi-Jurisdiction Hazard Mitigation Plan. We, the Executive Committee, recommend the mitigation plan outreach strategies recommended in FEMA's Local Mitigation Planning Guidance be congruous to the current "Safer at Home" order in place for the State of Alabama. This order is in place under the direction of Governor Kay Ivey with the advisement of State Health Officer Dr. Harris.

This modification will entail presenting the draft plan digitally, via the EMA Mitigation website, and the agendas of all City/Town Council "Council of the Whole" or Work Session Meetings, which are public and include corresponding public notices and agendas.

My number is (251) 972-8510, and my email address is danon.smith@baldwincountyal.gov.

Highest Regards,

Danon Smith

Planning & Grants Manager with the Baldwin County Emergency Management Agency and Secretary of the Baldwin County Hazard Mitigation Planning Committee

CC: Zachary M. Hood, EMA Director The Full Body of the Baldwin Hazard Mitigation Planning Committee, and the leadership and public of their respective jurisdictions

Encl: Safer at Home Order, as most recently amended.

Meeting Minutes for the 02/25/2021 MPC Executive Committee Meeting

2.5 Integration with Existing Plans

Existing plans were consulted upon drafting of the Regional Hazard Mitigation Plan to gauge understanding of the region's capacity for hazard mitigation. The Plans reviewed include the following:

Local Hazard Mitigation Plans

Each of the three participating SARPC counties in AEMA Division A has previously developed county level local hazard mitigation plans. These plans were reviewed for consistency of information within the regional plan.

Alabama State Hazard Mitigation Plan (2018 Update)

The State Hazard Mitigation Plan was consulted to assist with consistency of information within the regional plan, including items within the Risk Assessment and local capabilities.

South Alabama Regional Planning Commission Comprehensive Economic Development Strategy (CEDS) (2017 With Annual Updates):

The SARPC CEDS was consulted to ensure the Hazard Mitigation Plan is consistent with the economic development strategy for the region.

Emergency Operations Plans

Each county in AEMA Division A has an Emergency Operations Plan (EOP) that is utilized in an emergency. The plans summarize various hazards and provide direction for emergency personnel in disaster situations. These plans complement the hazard mitigation plan, but do not necessarily cover the same material.

Alabama Drought Management Plan (2018 Update)

The Alabama Drought Management Plan was studied to provide background information of drought impacts on the planning area.

Local Comprehensive Plans

Local comprehensive plans were reviewed with jurisdictions during this process to ensure consistency.

Other sources utilized for data incorporation are listed in the Section 3 – Risk Assessment.

Section 3- SARPC Planning Area Risk Assessment

This section of the plan addresses requirements of Section 201.6 (c)(2).

Section Contents

- 3.1 Hazard Overview
- 3.2 Hazard Profiles
- 3.3 Vulnerability Overview
- 3.4 Probability of Future Occurrence and Loss Estimation
- 3.5 Total Population and Property Valuation Summary by Jurisdiction
- 3.6 Hazard Impacts

3.1 Hazard Overview

SARPC's Division A counties are affected by a wide range of natural hazards that can potentially have a negative impact on life and property throughout the planning region. Current FEMA regulations under the Disaster Mitigation Act of 2000 (DMA 2000) require, at a minimum, an evaluation of a full range of natural hazards. An evaluation of human-caused hazards (i.e. technological hazards, terrorism, etc.) is allowed but not required for plan approval. This regional plan includes only one human-caused hazard, the COVID-19 pandemic.

SARPC's Division A counties have been included in 32 Federal Disaster Declarations, and 12 Emergencies, as shown in Table 3.1. The declared disasters have been primarily related to two major types of impact: flooding (through both tropical and non-tropical events) and high winds (through hurricanes, tornadoes, and severe thunderstorms).

Table 3.1 SARPC Division A Planning Area Federally Declared Disasters

Disaster Number	Declaration Date	Counties Declared	Type of Incident
280	11/7/69	Mobile, Baldwin	Hurricane Camille
369	3/27/73	Mobile, Baldwin, Escambia	Tornadoes, Flooding
3045*	7/20/77	Mobile, Baldwin, Escambia	Drought
563	8/9/78	Baldwin	Severe Storms, Flooding
3074*	3/17/79	Baldwin	Flooding
598	9/13/79	Mobile, Baldwin, Escambia	Hurricane Frederic
619	4/20/80	Mobile	Severe Storms, Tornadoes, Flooding
639	5/14/81	Mobile	Severe Storms, Flooding
742	9/17/85	Mobile, Baldwin	Hurricane Elena
861	3/21/90	Mobile, Baldwin, Escambia	Severe Storms, Tornadoes, Flooding
3096*	3/15/93	Mobile, Baldwin, Escambia	Severe Snowfall, Winter Storm
1070	10/4/95	Mobile, Baldwin, Escambia	Hurricane Opal
1185	7/25/97	Mobile, Baldwin	Hurricane Danny
1208	3/9/98	Escambia	Severe Storms, Flooding
3133*	9/28/98	Mobile, Baldwin, Escambia	Hurricane Georges

Disaster Number	Declaration Date	Counties Declared	Type of Incident
1250	9/30/98	Mobile, Baldwin, Escambia	Hurricane Georges
1438	10/9/02	Mobile, Baldwin	Tropical Storm Isidore
1466	5/12/03	Mobile, Baldwin, Escambia	Severe Storms, Tornadoes, Flooding
1549	9/15/04	Mobile, Baldwin, Escambia	Hurricane Ivan
1593	7/10/05	Mobile, Baldwin, Escambia	Hurricane Dennis
3214*	8/28/05	Mobile, Baldwin	Hurricane Katrina
1605	8/29/05	Mobile, Baldwin	Hurricane Katrina
3237*	9/10/05	Mobile, Baldwin, Escambia	Hurricane Katrina Evacuation
3292*	8/30/08	Baldwin, Escambia	Hurricane Gustav
1789	9/10/08	Baldwin, Escambia	Hurricane Gustav
1797	9/26/08	Mobile, Baldwin	Hurricane Ike
1835	4/28/09	Baldwin	Severe Storms, Flooding, Tornadoes, Straight-Line Winds
1866	12/22/09	Mobile, Baldwin	Tropical Storm Ida
1870	12/31/09	Escambia	Severe Storms, Flooding
3319*	4/27/11	Mobile, Baldwin, Escambia	Severe Storms, Flooding
1270	12/31/09	Escambia	Severe Storms, Flooding
			Severe Storms, Tornadoes, Straight-Line Winds, Flood-
1971	4/28/11	Mobile, Baldwin, Escambia	ing
4082	9/21/12	Mobile, Baldwin	Hurricane Isaac
4176	5/2/14	Mobile, Baldwin	Severe Storms, Tornadoes, Straight-Line Winds, Flood- ing
4251	1/21/16	Escambia	Severe Storms, Tornadoes, Straight-Line Winds, Flood- ing
3389*	9/11/17	Mobile, Baldwin, Escambia	Severe Storms, Tornadoes, Straight-Line Winds, Flood- ing

D' A NI I	D. I. d. D.	C C T	T et il
Disaster Number	Declaration Date	Counties Declared	Type of Incident
			Severe Storms, Tornadoes,
			Straight-Line Winds, Flood-
3394*	10/8/17	Mobile, Baldwin, Escambia	ing
4349	11/16/17	Mobile, Baldwin	Hurricane Nate
3407*	10/12/18	Mobile, Baldwin, Escambia	Hurricane Michael
4406	11/5/18	Mobile	Hurricane Michael
3472*	3/13/20	Mobile, Baldwin, Escambia	COVID-19 Pandemic
4503	3/29/20	Mobile, Baldwin, Escambia	COVID-19 Pandemic
4563	9/20/20	Mobile, Baldwin, Escambia	Hurricane Sally
4573	12/10/20	Mobile	Hurricane Zeta

Source: www.fema.gov

Under a federally declared disaster, the State of Alabama and affected local jurisdictions are eligible to apply for federal reimbursement for debris removal, emergency services, and critical facility repair/replacement. Following a disaster, funding is made available for hazard mitigation grants. These grants allow for implementation of mitigation projects that are listed in mitigation plans such as this one.

3.2 Hazard Profiles

Multiple natural hazards affect the SARPC's Division A counties. These hazards were identified and evaluated through a process that included studying historical events, reviewing previous mitigation plans, identifying susceptible locations, and gathering input from local stakeholders. For each hazard addressed in the risk assessment, a general description of the hazard and its extent are included.

Due to its geographical location, SARPC's Division A counties are vulnerable to hazards that can disrupt life at any time throughout the year. There are numerous hazard types that are not applicable to these counties. These hazards include avalanche, and volcanoes. No other mention of these hazards will be made. Table 3.2 presents all potential hazards and indicates if they present risk to the planning area. In addition, information sources and the association of the hazard to a specific area of the planning region is indicated.

^{*}Denotes an emergency, rather than a disaster.

Table 3.2 Potential Hazards and Data Sources

Hazard	Risk	Source	Correlation with Region
Avalanche	No	US Forest Service National Avalanche Center (http://www.fsavalanche.org/)	No risk of avalanche events in Alabama
Coastal Erosion	Yes	FEMA Coastal Erosion Hazards Report (http://www.fema.gov/media-li-brary/assets/documents/8397)	Historic incidents for coastal areas in Mobile and Baldwin Counties
Dam Failure	Yes	USACE National Inventory of Dams (http://geo.usace.army.mil/pgis/f?p=397:12:)	Population downstream from dams/ flooding concerns; no state regula- tion of dam safety
Drought / Extreme Heat	Yes	United States Drought Monitor (http://droughtmonitor.unl.edu/) NOAA National Climatic Data Center (http://www.ncdc.noaa.gov/stormevents/)	Historic incidents with damage/ regionwide
Earthquake	Yes	USGS Earthquake Hazards Program (http://earthquake.usgs.gov/earthquakes/)	Proximity to Southeast US seismic zones; previous occurrences
Flooding/Flash Flooding	Yes	NOAA National Climatic Data Center (http://www.ncdc.noaa.gov/stormevents/)	Historic incidents with damage / identified flood hazard areas
High Winds (Hurricanes, Tornadoes, Windstorms)	Yes	National Weather Service (NWS) Storm Data (http://www.srh.noaa.gov/bmx/?n=stormdata_ma in) NWS Tornado Database (http://www.srh.noaa.gov/bmx/?n=tornadodb_main) National Hurricane Center Data Archive (http://www.nhc.noaa.gov/data/#tcr)	Historic incidents with damage/ regionwide
Landslides	Yes	USGS Landslides Hazard Program (http://landslides.usgs.gov/hazards/nationalmap/) Geological Survey of Alabama, Landslides (http://gsa.state.al.us/gsa/geologichazards/Landslides.htm)	Susceptible areas to land- slides/historic occurrences
Land Subsid- ence/ Sinkholes	Yes	Geological Survey of Alabama, Sinkholes in Alabama (http://gsa.state.al.us/gsa/geologichazards/Sinkholes_AL.htm)	Susceptible areas to land subsidence / sinkholes
	No	FEMA, Tsunami (http://m.fema.gov/tsunamis)	Minimal risk/no identified historic incidents
Volcano	No	FEMA, Volcanoes (http://m.fema.gov/volcanoes)	No risk: AEMA Division A is not near an active volcanic area
Wildfire	Yes	Southern Wildfire Risk Assessment (www.southernwildfirerisk.com)	Historic incidents with damage / identified susceptible areas

Hazard	Risk	Source	Correlation with Region	
Winter / Ice	Yes	NOAA National Climatic Data Center	Historic incidents with	
Storms		(http://www.ncdc.noaa.gov/stormevents/)	damage/regionwide	

Effects from high winds (primarily from tornadoes and severe storms) and flooding are regarded the most significant natural hazards affecting the planning area.

As explained earlier, each identified hazard has its own profile. This profile includes the following:

- **Background:** Provides general definitions and brief descriptions of the hazard, its characteristics, and potential effects.
- Locations Affected: Provides information on the geographic areas within the planning area that are susceptible to hazard occurrences. Locations affected are described regionally, unless a specific jurisdiction has different risks, which is further explained in comparison with the rest of the planning area.
- Extent: Provides information on the potential strength or magnitude of the hazard.
- **Historical Occurrences:** Provides information on the history of previous hazard events in the planning area, including their impacts.
- **Probability of Future Events:** Describes the likelihood of future hazard occurrences in the planning area. Many hazards may affect the entire planning area, while other hazards are more localized due to specific factors. These qualitative descriptions are from historical occurrences and other risk factors. Because of the lack of comprehensive quantitative data on many of the hazards, susceptibility to future damage will be noted by categories of High, Medium, Low, or Very Low. These categories are described below.
 - o High: Probable major damage in a 1-10 Year Period
 - o Medium: Probable major damage in a 10-50 Year Period
 - o Low: Probable major damage in a 100 Year Period
 - o Very Low: No probable major damage in a 100 Year Period

3.2.1. Dam/Levee Failure

Background

Dam failure usually occurs when spillway capacity is inadequate, and water overtops the dam or when internal erosion through a dam's foundation occurs (also known as piping). If internal erosion or overtopping cause a full structural breach, a high-velocity, debris-laden wall of water is released and rushes downstream, damaging or destroying whatever is in its path.

Dam failures may result from one or more the following:

- Prolonged periods of rainfall and flooding (the cause of most failures);
- Inadequate spillway capacity which causes excess overtopping flows;
- Internal erosion due to embankment or foundation leakage or piping;
- Improper maintenance;
- Improper design;
- Negligent operation;
- Failure of upstream dams;
- Landslides into reservoirs;
- High winds;
- Earthquakes.

The State of Alabama is the only state without a dam safety program. Numerous attempts have been made over the years to pass dam safety legislation in the state, but all have failed. A statewide dam safety program is needed to protect lives and property, assist local officials in planning and responding to emergency situations, and to help dam owners control their liability.

Locations Affected

The National Inventory of Dams (NID) lists 73 dams in the SARPC planning area. Baldwin County has 23, Escambia County has 17, and Mobile County has 33. None of these dams are regulated by a State or Federal Agency. However, this information should be used with caution; it is considered outdated due to the lack of regulatory authority over dams in Alabama. The exact number of dams in the state is unknown due to the lack of tracking or permitting of private dams. In addition, it is estimated that the number of high risks dams is much higher. Table 3.3 shows the 11 dams in the region with significant or high hazard potential. Figures 3.1 – 3.3 show the dam locations in each county, with proximity to each jurisdiction.

Table 3.3 Dam Hazard Classification

Dam Name	County	Hazard Potential	Emergency Action Plan
JP Bertolli	Baldwin	Significant	No
Big Creek Lake	Mobile	High	No
Dawes Lake	Mobile	High	No
Bermuda Run	Mobile	Significant	No
Brooks Pond	Mobile	Significant	No
Municipal Park Lake 1	Mobile	Significant	No
WJ Ellis/Bill's Lake	Escambia	High	No
Marshall Patterson	Escambia	Significant	No
Randolph Jernigan #2	Escambia	Significant	No
Odie Sherrer	Escambia	Significant	No
WJ Ellis	Escambia	Significant	No

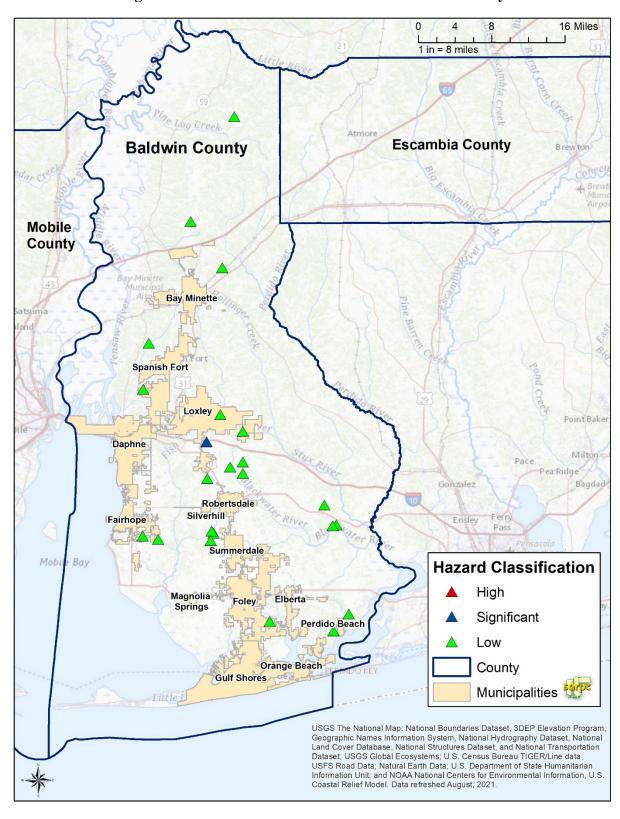


Figure 3.1 Dam Hazard Classification - Baldwin County

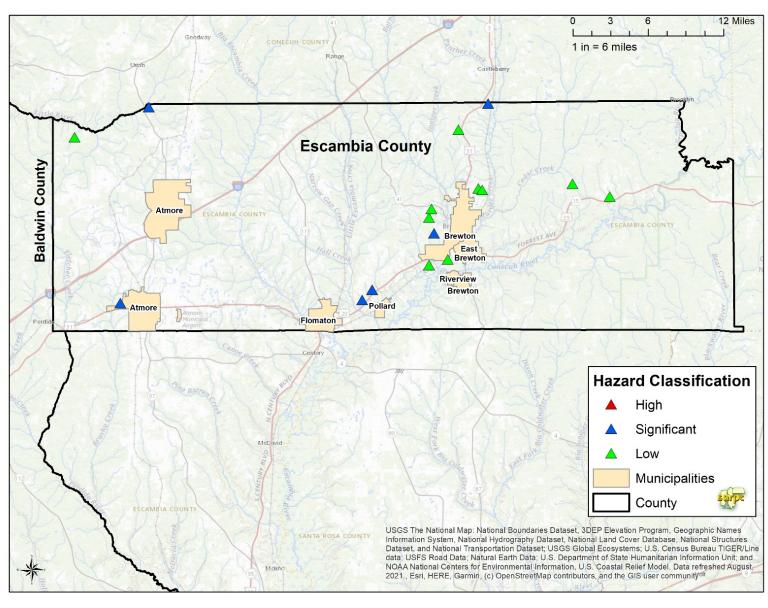


Figure 3.2 Dam Hazard Classification – Escambia County

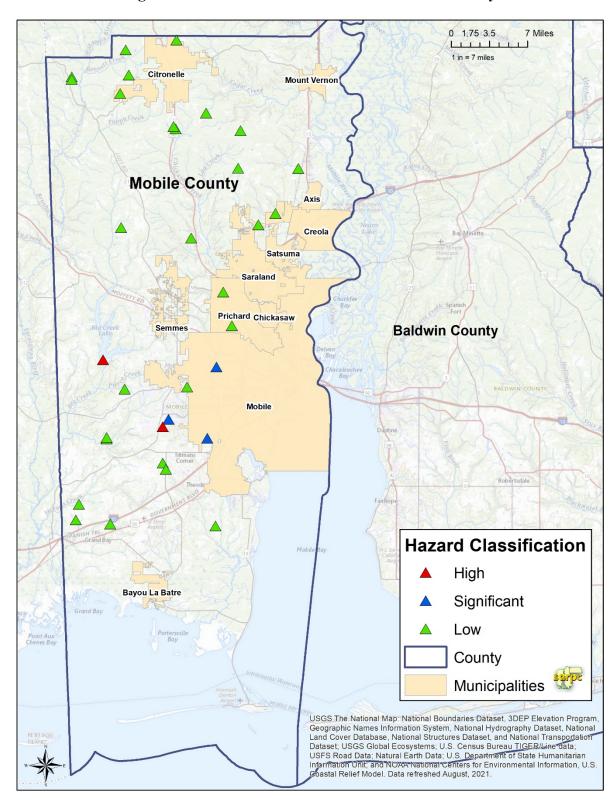


Figure 3.3 Dam Hazard Classification - Mobile County

Extent

Federal Guidelines for Dam Safety presents three classifications for "hazard potential." Currently, this classification is the best indicator of the potential extent of dam failure. Table 3.4 provides details of the classification.

Table 3.4 Dam Hazard Classification

Hazard Potential Classification	Loss of Human Life	Economic, Environmental, LifeLine Losses
Low	None expected	Low-generally limited to owner
Significant	None expected	Yes
High	Probable-one or more expected	Yes

Source: Federal Guidelines for Dam Safety (Published April 2004)

For most of the dams in the planning area, dam failure would result in flooding of several feet. Mainly agricultural areas, infrastructure, and isolated structures would be impacted. The extent would vary based on the storage of the affected dam and its proximity to infrastructure and structures. For larger dams or dams with High hazard potential, the extent of damage could be much greater and lead to loss of life along with economic, environmental, and lifeline losses.

Historical Occurrences

There are no sources of reliable records for dam failure in the planning area. There are no documented occurrences of dam failures within the planning region.

Probability of Future Events

There are no documented occurrences of dam failures within the planning area. There is a deficit in predicting probability of failure extending from outdated and incomplete dam information.

3.2.2. Drought/Extreme Heat

Background

Drought

The National Weather Service defines drought as a persistent and abnormal moisture deficiency having adverse impacts on vegetation, animals, and people. Meteorological, hydrological, and agricultural are the three types of droughts. Meteorological droughts occur when precipitation departs from normal amounts, high temperatures may also play a role in this type of drought. Hydrological droughts are deficiencies in surface or subsurface water levels. Agricultural droughts occur when there is not enough soil moisture to support crop growth. Drought conditions are prevalent in much of the United States during the summer months. Occurrences of drought are typically classified as described in Table 3.5.

Table 3.5 Drought Classifications

Meteorological Drought	Departure of actual precipitation from an expected average or normal amount based on monthly, seasonal, or annual time scales.		
Hydrologic Drought	Effects of precipitation shortfalls on stream flows and reservoir,		
	lake, and groundwater levels.		
Agricultural Drought	Soil moisture deficiencies relative to water demands of plant life,		
	usually crops.		
Socioeconomic Drought	Effects of demands for water exceeding the supply as a result of a		
	weather-related supply shortfall.		

Source: FEMA's Multi-Hazard Identification and Risk Assessment (MHIRA) (Published January 1997)

Drought differs from other natural hazards in three ways. First, the onset and end of a drought are difficult to determine due to the slow accumulation and lingering of effects of an event after its apparent end. Second, the lack of an exact and universally accepted definition adds to the confusion of its existence and severity. Third, in contrast with other natural hazards, the impact of drought is less obvious and may be spread over a larger geographic area. These characteristics have hindered the preparation of drought contingency or mitigation plans by many governments.

The State of Alabama Office of Water Resources has produced the *Alabama Drought Management Plan* that was finalized in November 2018. The plan provides guidance and defines processes to address drought and drought-related activities. Activities addressed in the plan include monitoring climatic conditions, defining declaration levels and triggers, developing impact assessments, response recommendations, and mitigation actions.

Extreme Heat

Extreme heat is defined as temperatures that are ten or more degrees or higher than average daily temperatures and last for several weeks. Extreme heat can damage an area economically by resulting in crop losses. The health of persons living and working within the area is also threatened. Health conditions that result from extreme heat range from mild to severe. These conditions include sunburn, heat cramps, heat exhaustion, and heat stroke. Heat can be deadly regardless of the length of time it persists. The National Weather Service issues three types of heat related advisories:

- 1. Excessive Heat Outlooks are issued when the potential exists for an excessive heat event in the next 3-7 days. An outlook provides information to those who need considerable lead time to prepare for the event, such as public utility staff, emergency managers and public health officials.
- 2. Excessive Heat Watches are issued when conditions are favorable for an excessive heat event in the next 24 to 72 hours. A watch is used when the risk of a heat wave has increased but its occurrence and timing are still uncertain. A watch provides enough lead time so that those who need to prepare can do so, such as cities officials who have excessive heat event mitigation plans.
- 3. Excessive Heat Warning/Advisories are issued when an excessive heat event is expected in the next 36 hours. These products are issued when an excessive heat event is occurring, is imminent, or has a very high probability of occurring. The warning is used for conditions posing a threat to life. An advisory is for less serious conditions that cause significant discomfort or inconvenience and, if caution is not taken, could lead to a threat to life.

Locations Affected

Drought &Extreme Heat

The entire planning area is susceptible to the occurrence of extreme heat and drought. All SARPC Division A counties are prone to unpredictable precipitation patterns including extended periods of below-average rainfall which lead to drought conditions. High, subtropical temperatures are common in south Alabama. The area is especially susceptible to these events during the summer months. The nature of these two hazards lead to the entire area sharing the same susceptibility.

Extent

Drought

The United States Drought Monitor classifies drought in five levels of intensity. The least intense level is classified as D1 with D4 being the most intense level. An area classified as D0 is not in drought but is experiencing abnormally dry conditions. Drought intensity categories are based on numerous factors including soil moisture, vegetation health, streamflow data, precipitation data, and local observations. Table 3.6 provides a description of each level of intensity.

Drought conditions will occur in the planning area in the future. In the past all levels of drought have been experienced in the area. It can be expected that D0-D4 category droughts will be experienced in the future. In SARPC Division A counties, droughts affect the water supply available for residents in the affected areas. Residents that rely on private wells face significant issues during drought periods. Farmers that rely on water sources dependent on precipitation also face challenges watering their livestock. Drought conditions damage crops causing economic losses for farmers. Drought conditions provide an environment more susceptible to wildfire. With drought conditions in place, water supply to fight wildfires is affected. Droughts lead to recreation and navigation issues along main rivers and streams.

Table 3.6 U.S. Drought Monitor Classification Scheme

			Ranges				
Category	Description	Possible Impacts	Palmer Drought Se- verity Index (PDSI)	CPC Soil Moisture Model (Percentiles)	USGS Weekly Streamflow (Percentiles)	Standardized Precipitation In- dex (SPI)	Objective Drought Indica- tor Blends (Per- centiles)
D0	Abnormally Dry	Going into drought: *short-term dryness slowing planting, growth of crops or pastures Coming out of drought: *some lingering water deficits *pastures or crops not fully recovered	-1.0 to -1.9	21 to 30	21 to 30	-0.5 to -0.7	21 to 30
D1	Moderate Drought	*Some damage to crops, pastures *Streams, reservoirs, or wells low, some water shortages developing or imminent *Voluntary water-use restrictions requested	-2.0 to -2.9	11 to 20	11 to 20	-0.8 to -1.2	11 to 20
D2	Severe Drought	*Crop or pasture losses likely *Water shortages common *Water restrictions imposed	-3.0 to -3.9	6 to 10	6 to 10	-1.3 to -1.5	6 to 10
D3	Extreme Drought	*Major crop/pasture losses *Widespread water shortages or restrictions	-4.0 to -4.9	3 to 5	3 to 5	-1.6 to -1.9	3 to 5
D4	Exceptional Drought	*Exceptional and widespread crop/pasture losses *Shortages of water in reservoirs, streams, and wells creating water emergencies	-5.0 or less	0 to 2	0 to 2	-2.0 or less	0 to 2

Source: https://droughtmonitor.unl.edu/About/AbouttheData/DroughtClassification.aspx Last Accessed on 1/13/20.

Extreme Heat

For the region, extreme heat can be defined as repeated instances of temperatures over 100 degrees Fahrenheit and associated heat index values over 100 degrees Fahrenheit. These conditions occur frequently and are expected to continue to occur in the planning area in the future. Due to the regions' climate, high temperatures coupled with high humidity are a common occurrence. There is no extent scale relating to extreme heat, but the heat index can be used to illustrate the effects of the hazard. The heat index is a measure of how hot it feels when relative humidity is considered with the actual air temperature. Table 3.7 provides a guide to how dangerous higher temperatures can be when occurring with high humidity.

Temperature (°F) **NWS Heat Index** 80 82 84 92 94 96 86 88 90 98 100 102 83 85 91 84 93 81 83 85 91 95 99 Relative Humidity (% 84 86 55 101 106 84 88 105 110 116 89 108 114 86 90 70 109 116 124 132 94 85 90 85 96 90 98 105 113 122 86 93 100 108 117 95 95 103 112 Likelihood of Heat Disorders with Prolonged Exposure or Strenuous Activity Extreme Caution Danger Extreme Danger

Table 3.7 Heat Index

Source: https://www.weather.gov/safety/heat-index

Historical Occurrences

Only Escambia County in the SARPC Division A region has experienced multiple instances of extreme heat and drought. Generally, occurrences of extreme heat and drought occur in short-term periods, which are less than 6 months. These events most commonly occur in the summer and fall seasons. By reviewing data from the U.S. Drought Monitor only Escambia County in SARPC's Division A region experienced some degree of drought between 2000 and 2020. Table 3.8 provides a summary of drought conditions in the region since 2000 that were recorded in the NOAA Storm Events Database. No records for this time period were found for extreme heat.

Table 3.8 Division A- SARPC Planning Area Drought Occurrences 2000-2020

Location	Date	Magnitude	Property Damage	Crop Damage
Escambia	11/1/16	D3	0	0
Escambia	12/1/16	D2-D3	0	0
Totals:			\$0	\$0

Source: NOAA Storm Events Database

Probability of Future Events

The probability of drought and extreme heat occurring within the region is relatively high. Most jurisdictions in the region can manage milder cases of drought and heat waves that occur occasionally, which render minor impacts. However, the probability of an impactful drought or an extreme heat event occurring in the planning area is classified as low (probably major damage in a 100-year period).

PAGE INTENTIONALLY LEFT BLANK.

3.2.3. Earthquakes

Background

The USGS defines an earthquake as a sudden slip on a fault. The Earth's tectonic plates are always moving relative to each other, but they can get stuck at their edges due to friction. When the stress on the edge of a plate overcomes the friction, there is an earthquake that releases energy in waves that travel through the earth's crust and causes the shaking that we feel. The hazards associated with earthquakes include anything that can affect the lives of humans, including surface faulting, ground shaking, landslides, liquefaction, tectonic deformation, tsunamis, and seiches. Earthquake risk is defined as the probability of damage and loss that would result if an earthquake were to occur.

Although many areas of the United States are better known for their susceptibility, earthquakes do occur in Alabama. There are four seismic zones that affect the state; these zones are the New Madrid Seismic Zone, Southern Appalachian Seismic Zone, Bahamas Fracture Seismic Zone, and the South Carolina Seismic Zone (SCSZ) (Figure 3.4). Escambia County and portions of Baldwin County are within the Bahamas Fracture Seismic Zone.

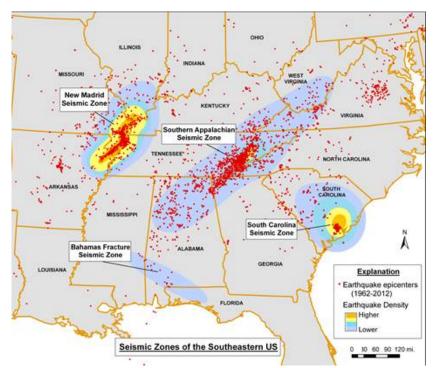


Figure 3.4 Seismic Zones of the Southeastern United States

Source: https://www.gsa.state.al.us/gsa/geologic/hazards/earthquakes/alquakes

Locations Affected

Seismic hazard is the hazard associated with potential earthquakes in an area. The United States Geological Survey (USGS) publishes maps that estimate earthquake probabilities within a radius of 50 kilometers (km) for a certain time span. These maps show likelihood of exceeding a level of earthquake shaking in each time period. The shaking intensity is measured in peak ground acceleration (PGA) which is acceleration (shaking) of the ground expressed as a percentage of gravity (%g), or as a percentage of 9.8 meters per second squared. Figure 3.5 is the seismic hazard map for Alabama. As you move north in Division A, the seismic risk increases. Northern Clarke and Washington, and northwest Monroe have the highest risk with a 2% chance of shaking exceeding between 6-10%g in the next 50 years.

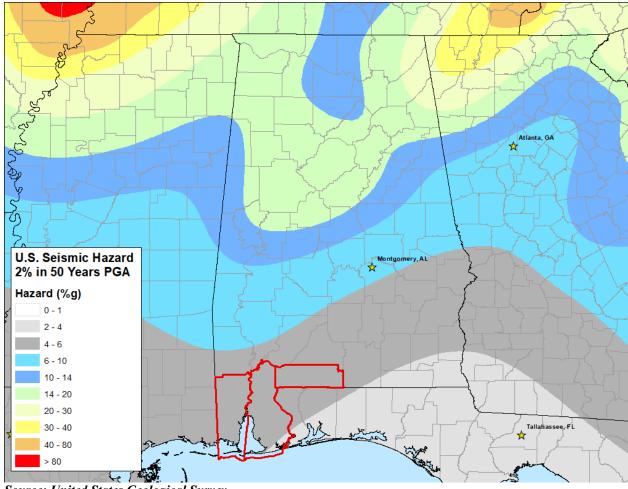


Figure 3.5 U.S. Seismic Hazard 2% in 50 Years PGA

Source: United States Geological Survey

http://earthquake.usgs.gov/earthquakes/states/alabama/hazards.php

Accessed on 12/19/19

Extent

Earthquakes are measured in various ways. The Richter Magnitude Scale measures an earthquake's magnitude. The magnitude is calculated from the amplitude of waves recorded by seismographs. The scale ranges from 1 to 9, with a measure of 1 being recorded but not felt, and a measure of 9 being a great earthquake that causes damage over a large area. The scale is logarithmic, meaning each whole number increase in magnitude represents a tenfold increase in measured amplitude. Each whole number step in the magnitude scale corresponds to the release of about 31 times more energy than the amount associated with the preceding whole number value.

More recently, a more uniformly applicable extension of the magnitude scale, known as moment magnitude, or Mw, was developed. For very large earthquakes, moment magnitude gives the most reliable estimate of earthquake size. It is a physical quantity proportional to the slip on the fault multiplied by the area of the fault surface that slips. Moment magnitude can be estimated from seismograms. The moment magnitude is then converted into a number like other earthquake magnitudes by a standard formula.

The Modified Mercalli Intensity Scale measures the earthquake's intensity, or the damage caused (Table 3.9). The Modified Mercalli Intensity Scale has measurements from I to XII, with I being hardly felt, if at all, and XII being total destruction of the surface. The scale does not have a mathematical basis; instead, it is an arbitrary ranking based on observed effects.

Table 3.9 Modified Mercalli Earthquake Measurement Scale

PGA (%g)	Magnitude (Richter)	Intensity (MMI)	Description (MMI)
<0.17 – 1.4	1.0 – 3.0	I	Not felt except by a very few under especially favorable conditions.
0.17 – 1.4	3.0 – 3.9	II – III	 II. Felt only by a few persons at rest, especially on upper floors of buildings. III. Felt quite noticeably by persons indoors, especially on upper floors of buildings. Many people do not recognize it as an earthquake. Standing motor cars may rock slightly. Vibrations similar to the passing of a truck. Duration estimated.
1.4 – 9.2	4.0 – 4.9	IV - V	IV. Felt indoors by many, outdoors by few during the day. At night, some awakened. Dishes, windows, doors disturbed; walls make cracking sound. Sensation like heavy truck striking building. Standing motor cars rock noticeably. V. Felt by nearly everyone; many awakened. Some dishes, windows broken. Unstable objects overturned. Pendulum clocks may stop.

PGA (%g)	Magnitude (Richter)	Intensity (MMI)	Description (MMI)
9.2 – 34	5.0 – 5.9	VI – VII	VI. Felt by all, many frightened. Some heavy furniture moved; a few instances of fallen plaster. Damage slight. VII. Damage negligible in buildings of good design and construction; slight to moderate in well-built ordinary structures; considerable damage in poorly built or badly designed structures; some chimneys broken.
34 – 124	6.0 – 6.9	VIII – IX	VIII. Damage slight in specially designed structures; considerable damage in ordinary substantial buildings with partial collapse. Damage great in poorly built structures. Fall of chimneys, factory stacks, columns, monuments, walls. Heavy furniture overturned. IX. Damage considerable in specially designed structures; well-designed frame structures thrown out of plumb. Damage great in substantial buildings, with partial collapse. Buildings shifted off foundations.
>124	7.0 and higher	VIII or Higher	X. Some well-built wooden structures destroyed; most masonry and frame structures destroyed with foundations. Rails bent. XI. Few, if any (masonry) structures remain standing. Bridges destroyed. Rails bent greatly. XII. Damage total. Lines of sight and level are distorted. Objects thrown into the air.

Source: United States Geological Survey, http://earthquake.usgs.gov, Last accessed 12/19/2019.

Numerous factors can affect the extent of an earthquake's damage. The type of construction materials along with construction method is a main factor. Areas where more earthquake resistant materials and building methods are implemented experience significantly less damage. Another factor is the existence and enforcement of building codes. These regulations lead to more disaster resistant communities.

In the planning area, earthquakes up to 4.9 on the Richter Scale have occurred. An earthquake of this magnitude will be felt by most people and will cause some minor damage. However, the average intensity of earthquakes in the planning area is 2.7, which is a very weak earthquake and would be felt by few people. These earthquakes are usually identified by the review of seismograms.

Historical Occurrences

There are 21 recorded earthquake occurrences for Clarke, Monroe, and Washington Counties (Table 3.10). The magnitude of these quakes has been reported as falling between 1 and 3 on the Richter Scale. Quakes of these magnitudes are often not felt and only detected by scientific instruments.

Table 3.10 Division A- SARPC Planning Area Historic Earthquake Incidences

Date	County	Location	Magnitude	Latitude	Longitude
12/10/74	Escambia	Huxford	0.2	31.3460	-87.4670
5/4/97	Escambia	Atmore	3.1	31.0000	-87.4000
10/24/97	Escambia	Little Rock	4.9	31.1180	-87.3390
10/26/97	Escambia	Little Rock	3.7	31.1000	-87.3000
10/28/97	Escambia	Little Rock	3.0	31.1000	-87.3000
1/26/80	Escambia	Little Rock	2.8	31.1800	-87.6100
9/25/03	Escambia	Atmore	2.9	31.1510	-87.5170
9/29/03	Escambia	Atmore	3.0	31.0310	-87.4620
9/30/03	Escambia	Escambia Co	3.3	31.1100	-87.5200
3/11/19	Escambia	Flomaton	3.1	31.0410	-87.2690
3/13/19	Escambia	Flomaton	2.3	31.0110	-87.2270
3/13/19	Escambia	Pollard	2.2	31.0120	-87.1780
3/27/19	Escambia	Pollard_a	2.1	30.9990	-87.1600
3/27/19	Escambia	Pollard_b	1.6	30.9990	-87.1610
4/11/19	Escambia	Pollard_a	2.3	31.0650	-87.1950
4/11/19	Escambia	Pollard_b	2.8	31.0640	-87.1940
4/11/19	Escambia	Pollard_c	3.2	31.0640	-87.1940
4/12/19	Escambia	Pollard	2.2	31.0580	-87.1770
4/13/19	Escambia	Pollard	2.2	31.0630	-87.1910
6/13/19	Mobile	Mobile	3.2	30.7000	-88.0000
11/10/20	Mobile	Dauphin Island	2.7	30.1110	-88.0730

Source: Geological Survey of Alabama

Probability of Future Events

Historically, earthquakes have occurred in Escambia and Mobile Counties. Overall, the occurrence of earthquakes in Division A is likely, but the probability of a high intensity quake in the division is low.

PAGE INTENTIONALLY LEFT BLANK.

3.2.4. Flooding

Background

A flood is a general and temporary condition where two or more acres of normally dry land or two or more properties are inundated by water or mudflow (floodsmart.gov). Many conditions can lead to flooding including hurricanes, overtopped levees, outdated or clogged drainage systems and rapid accumulation of rainfall. There are three primary types of flooding that affect the planning area:

- 1. Flash flooding: Flash floods generally develop within 6 hours of the immediate cause. Flash floods exhibit a rapid rise of water over low-lying areas. There are many reasons that flash floods occur, but one of the most common is the result of copious amounts of rainfall from thunderstorms that cause flash flooding. This can occur when slow moving or multiple thunderstorms move over the same area. In some cases, flooding may even occur well away from where heavy rain initially fell. Sudden downpours can rapidly change the water levels in a stream or creek and turn small waterways into violent, raging rivers. Urban areas are especially prone to flash floods due to the large amounts of concrete and asphalt surfaces that do not allow water to penetrate the soil easily.
 - a. Flash floods often result from the remnants of tropical systems that pass through the area.
 - b. Tropical cyclones can cause flooding in the U.S. each spring through fall. While the official hurricane season runs from June to November in the Atlantic, tropical storms have been known to occur outside of this timeframe. Tropical cyclones can bring copious amounts of precipitation onshore. Most of the heaviest rain occurs to the right of the center of the storm; however, it should be noted that rain bands on both sides of the system can produce heavy rain.
- 2. River flooding: River flooding occurs when river levels rise and overflow their banks or the edges of their main channel and inundate areas that are normally dry. In Division A river flooding is most often caused by heavy rainfall. The National Weather Service issues Flood Warnings for designated River Forecast Points where flood stage has been established.
- 3. Coastal flooding: Coastal flooding occurs when water in coastal areas rises above the normal water level. This type of flooding is caused by strong, persistent onshore wind, high astronomical tides, and/or low atmospheric pressure, resulting in damage, erosion, flooding, fatalities, or injuries.

Locations Affected

Counties in Division A are susceptible to both flash flooding and riverine flooding. Due to the nature of flash floods, the entire planning area is at risk. Low areas and areas with poor drainage are at higher risks, but almost every area can be affected by flash flooding if enough rainfall occurs.

Riverine flooding occurs along rivers and their tributaries and usually occurs after periods of heavy rainfall. Riverine flooding is a risk in the planning area. Coastal flooding is a hazard that affects the coastal areas. Special Flood Hazard Areas are shown by county and jurisdiction in Figures 3.6 through 3.39. Figures 3.40 to 3.49 show Baldwin and Mobile County storm surge levels for Category 1-5 hurricanes. This information is based on the most recent FEMA National Flood Layer available.

Figures 3.50 and 3.51 show the locations of Baldwin County Public Schools and Mobile County Public Schools in relation to floodplains. Only three schools in the two counties appear to be located within the floodplain. Swift Elementary, near Bon Secour in unincorporated Baldwin County is in zone AE. In Mobile County, Dauphin Island Elementary is located partially in zones AE and X, and Alba Middle School, in Bayou La Batre, is located within zone AE.

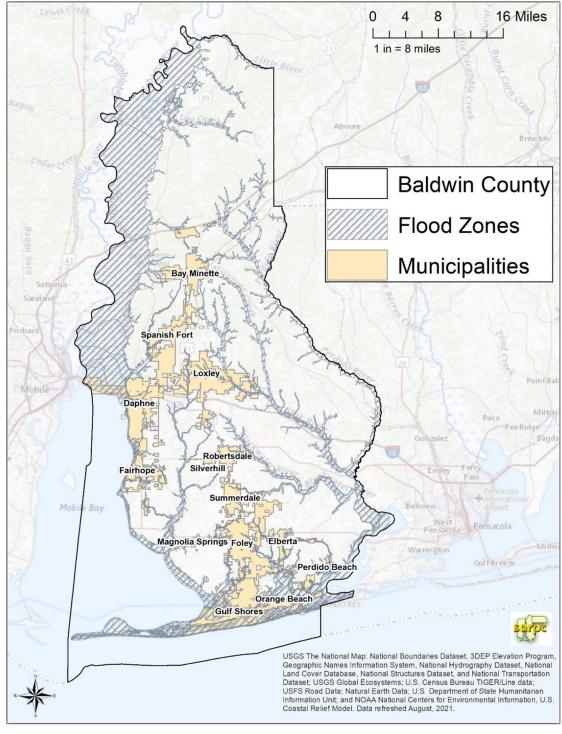
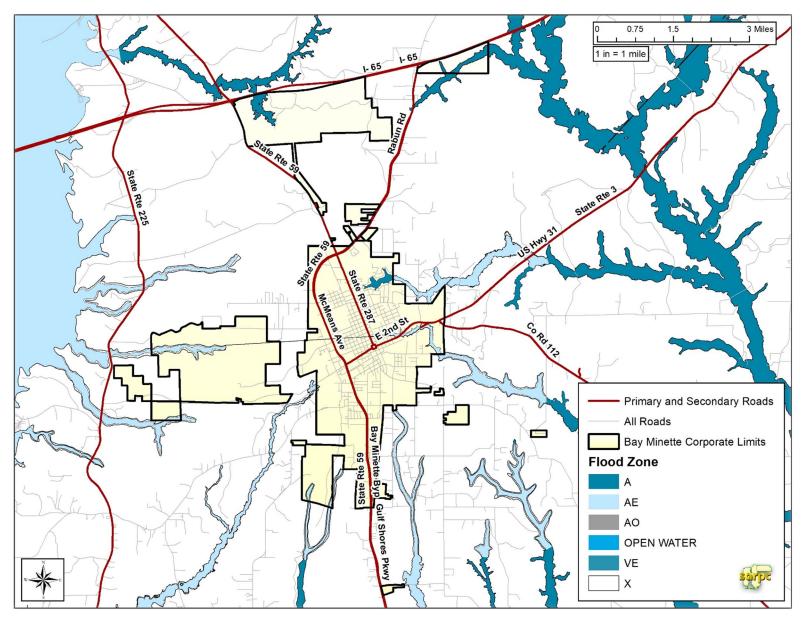


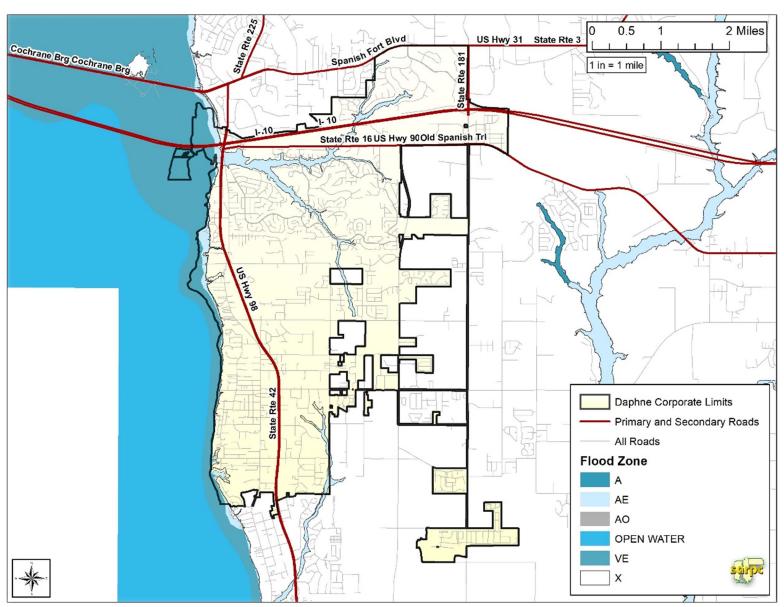
Figure 3.6 Baldwin County Flood Hazard Areas

Source: Federal Emergency Management Agency (2019) Map Produced by South Alabama Regional Planning Commission (2021)

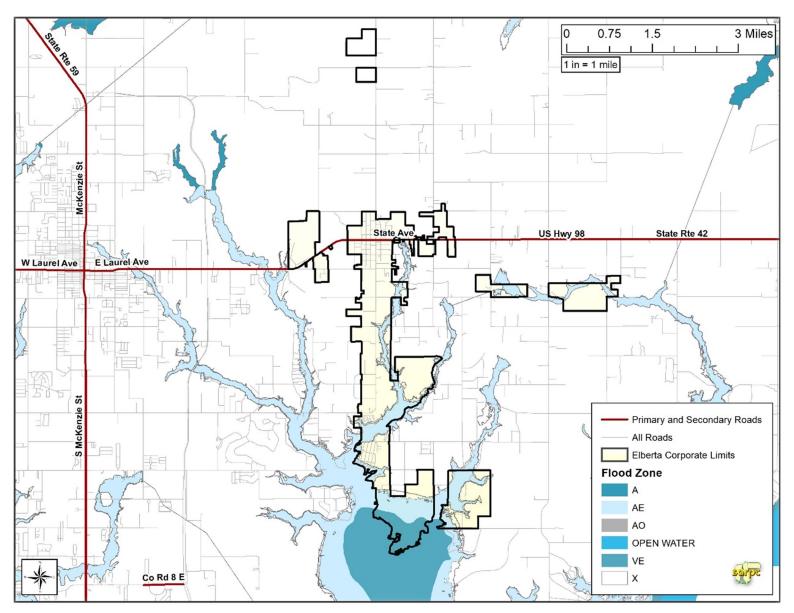
3.7 Bay Minette Flood Hazard Areas



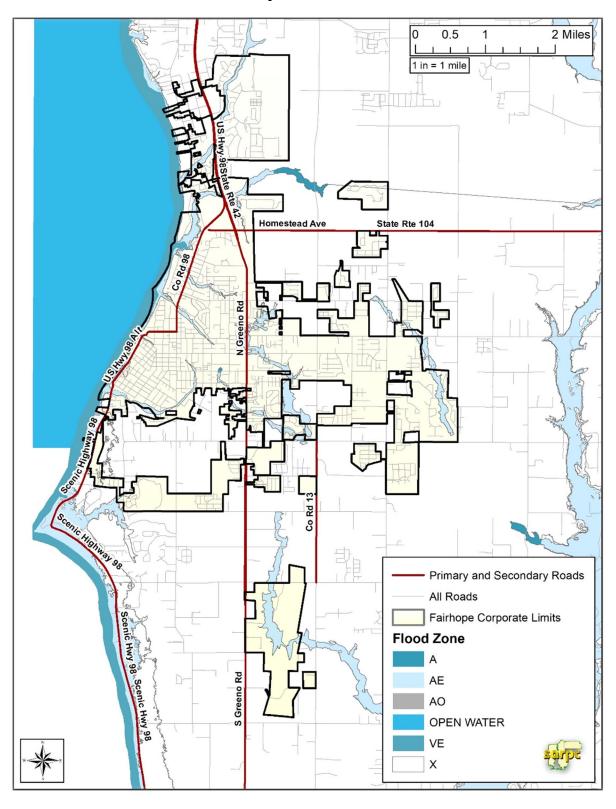
3.8 Daphne Flood Hazard Areas



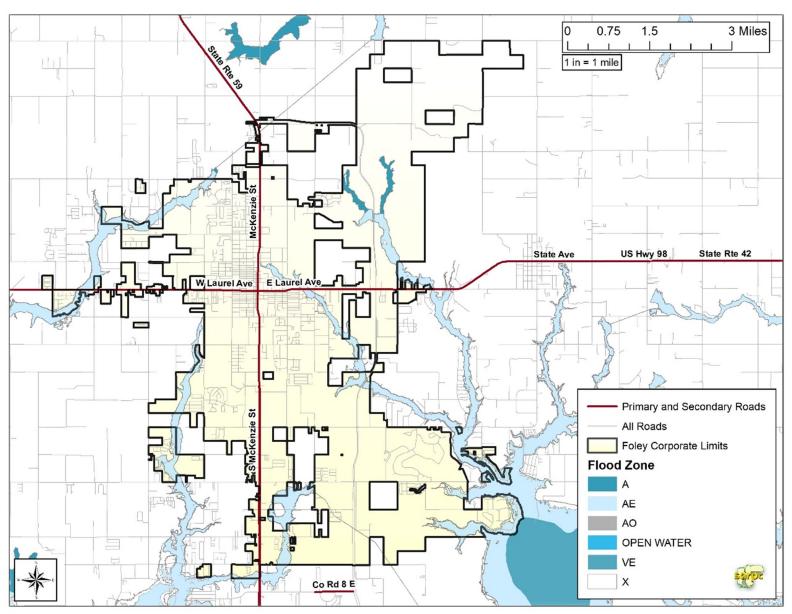
3.9 Elberta Flood Hazard Areas



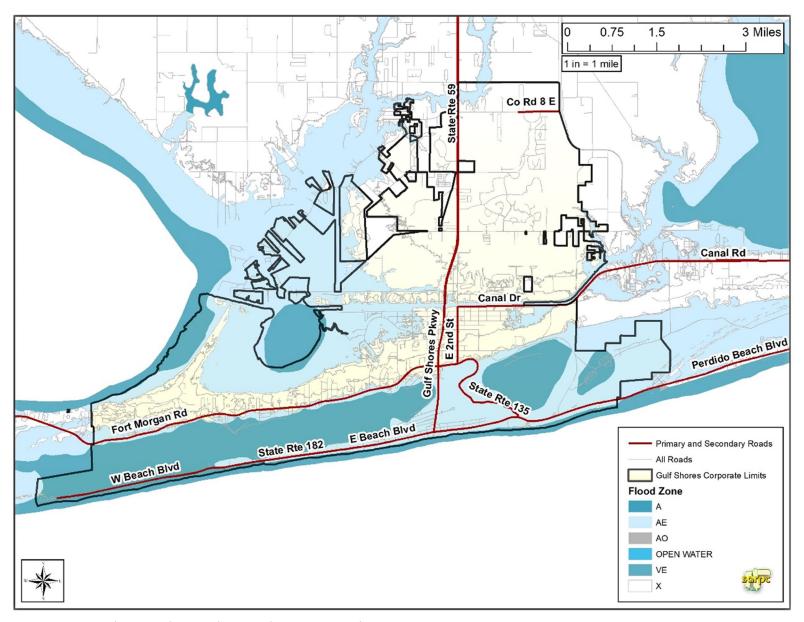
3.10 Fairhope Flood Hazard Areas



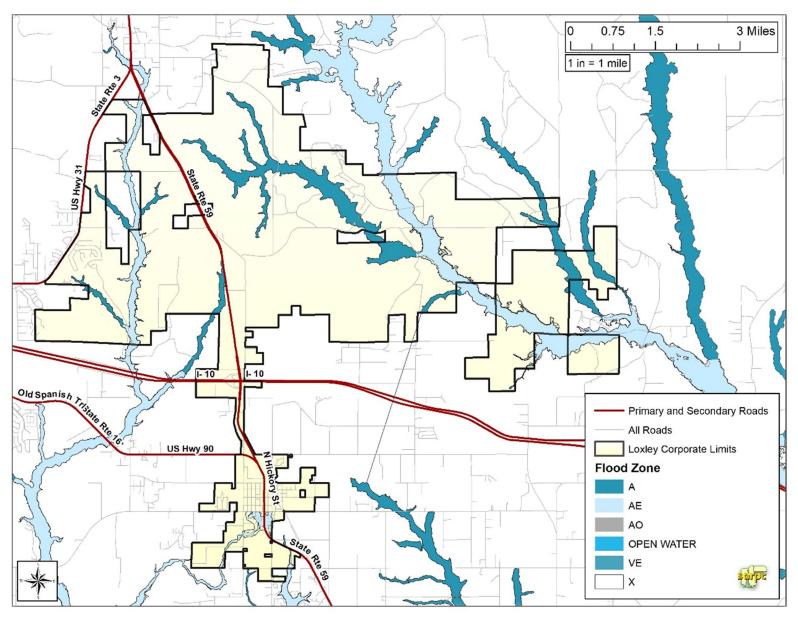
3.11 Foley Flood Hazard Areas



3.12 Gulf Shores Flood Hazard Areas

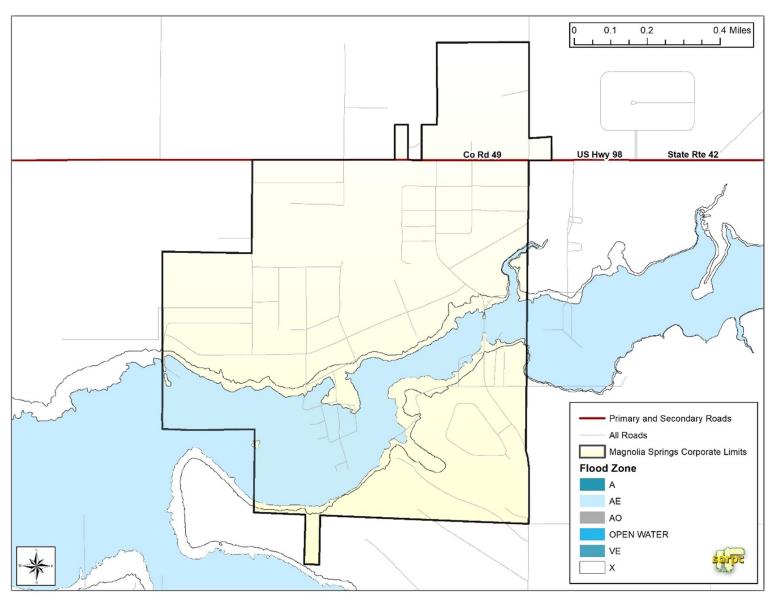


3.13 Loxley Flood Hazard Area

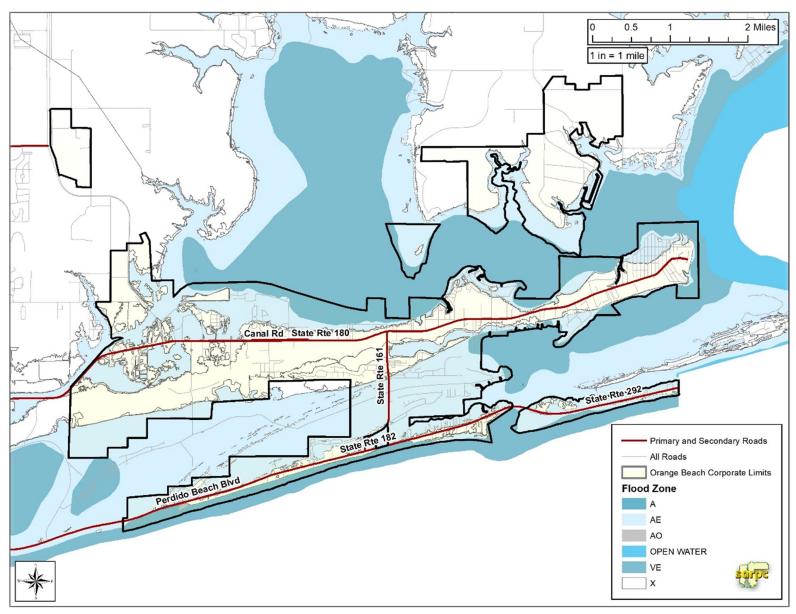


Division A Multi-Jurisdictional Hazard Mitigation Plan 2021

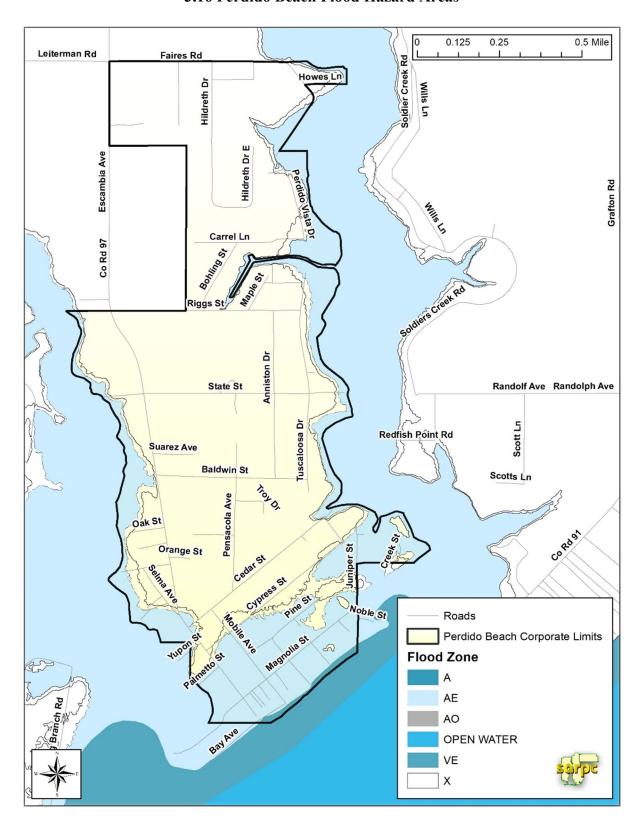
3.14 Magnolia Springs Flood Hazard Areas



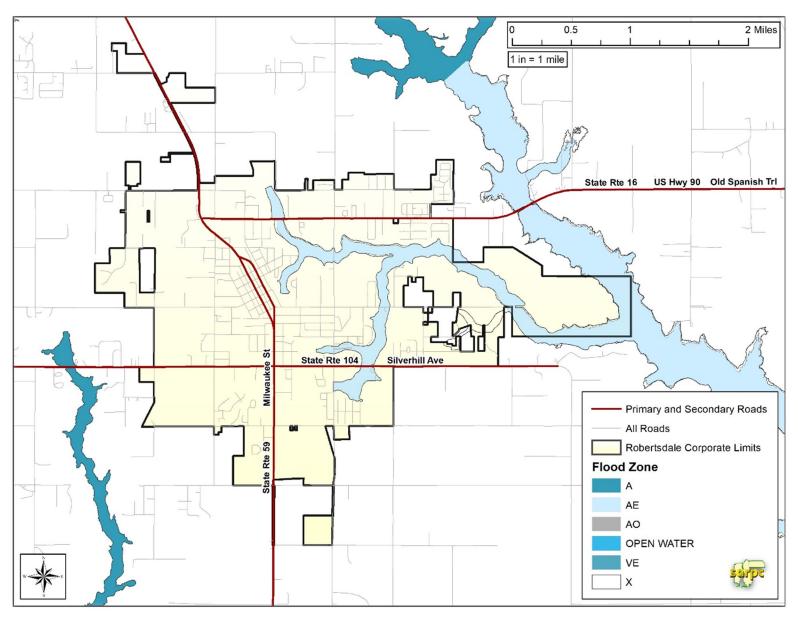
3.15 Orange Beach Flood Hazard Areas



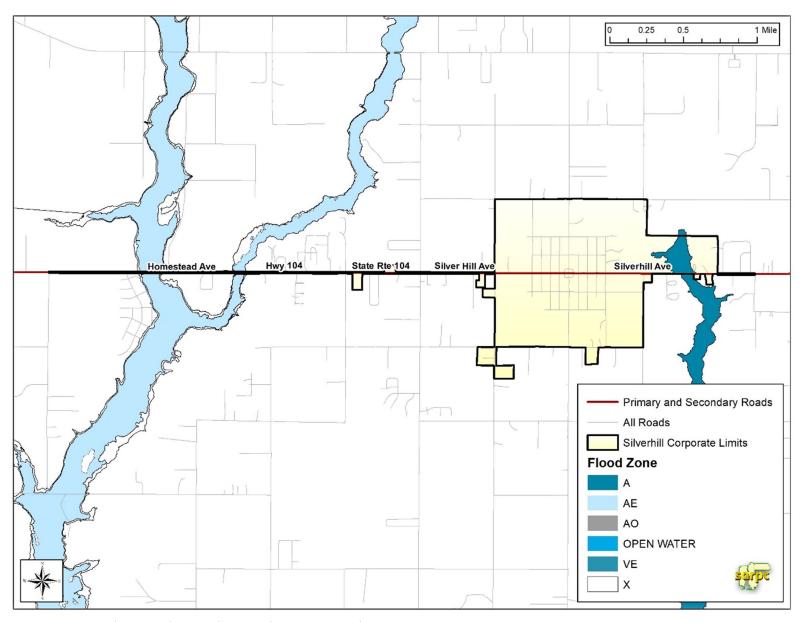
3.16 Perdido Beach Flood Hazard Areas



3.17 Robertsdale Flood Hazard Areas

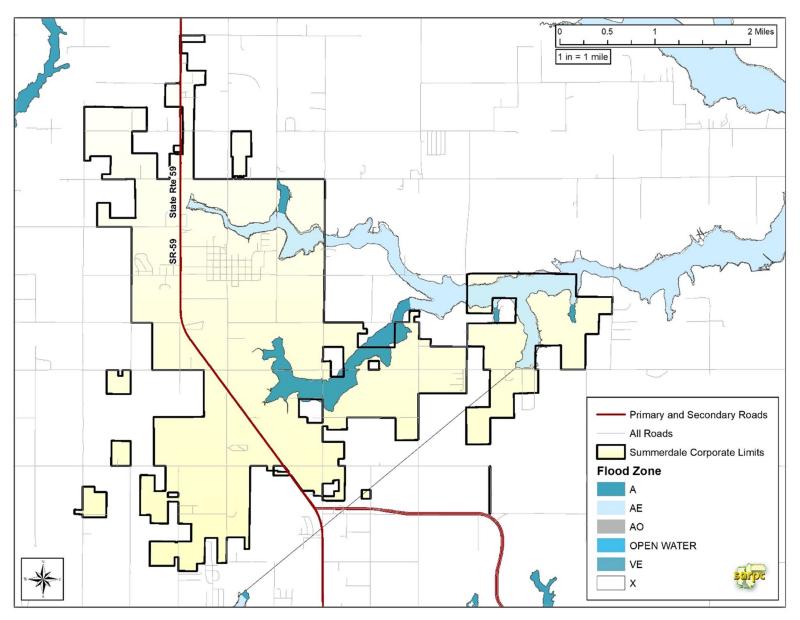


3.18 Silverhill Flood Hazard Areas

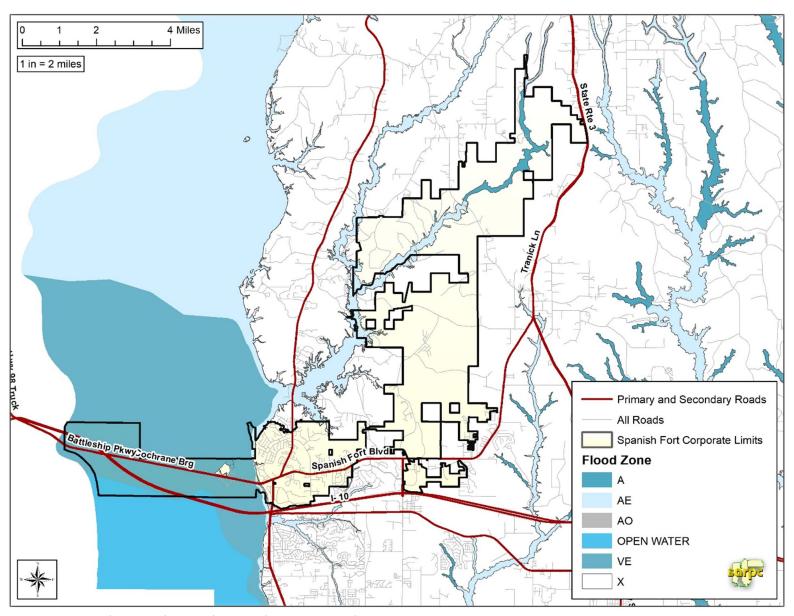


Division A Multi-Jurisdictional Hazard Mitigation Plan 2021

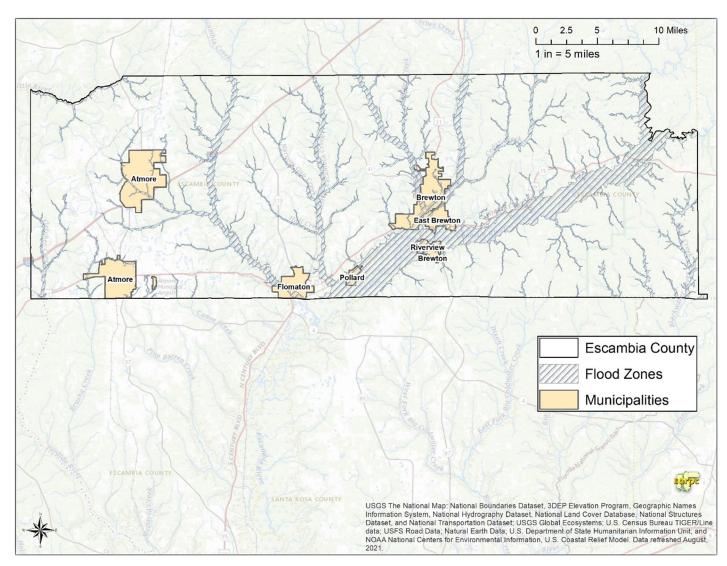
3.19 Summerdale Flood Hazard Areas



3.20 Spanish Fort Flood Hazard Areas

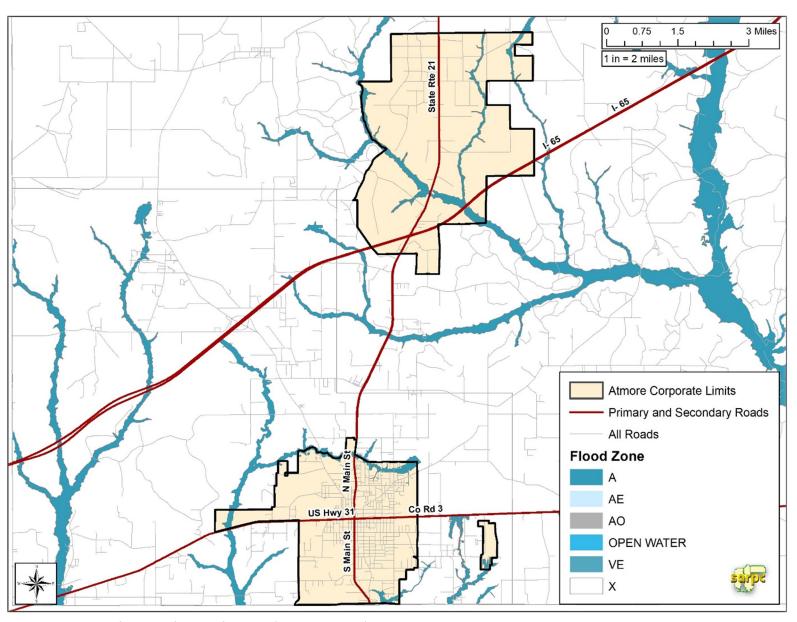


3.21 Escambia County Flood Hazard Areas



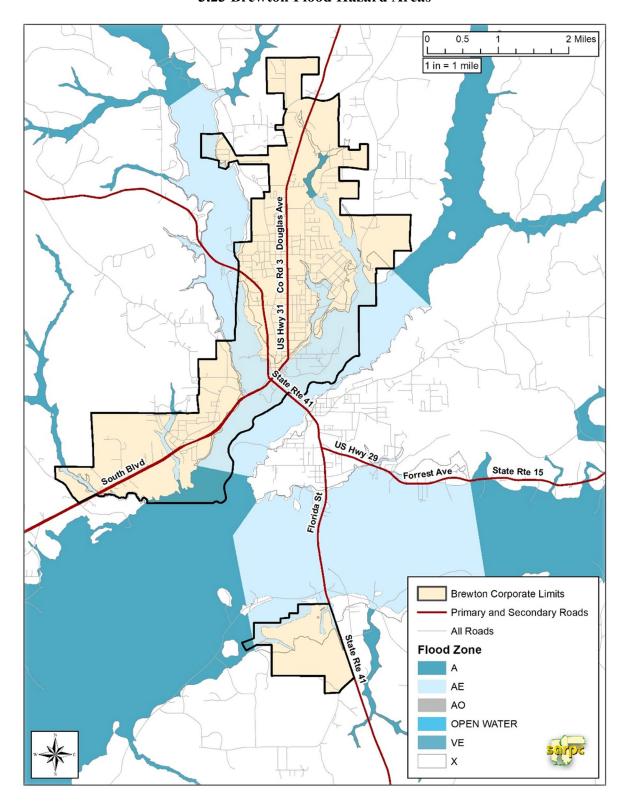
Source: Federal Emergency Management Agency (2019) Map Produced by South Alabama Regional Planning Commission (2021)

3.22 Atmore Flood Hazard Areas

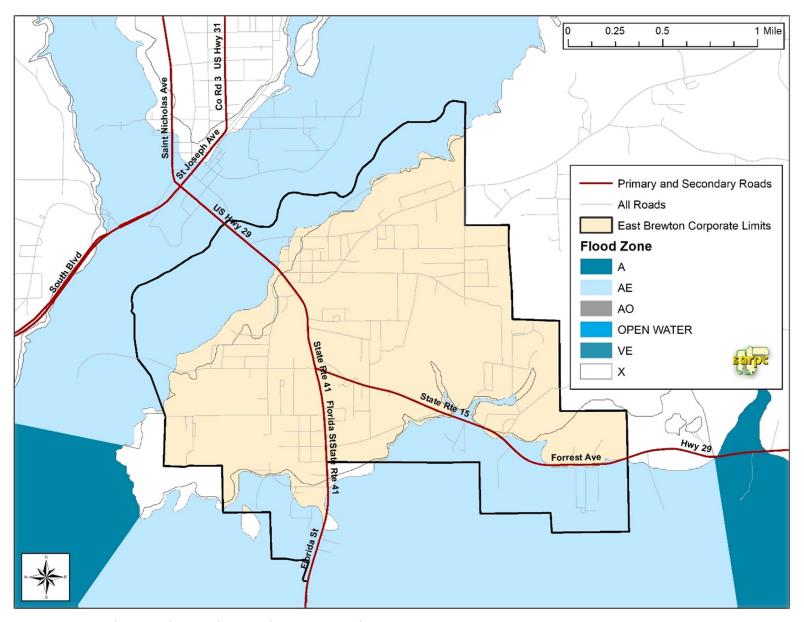


Division A Multi-Jurisdictional Hazard Mitigation Plan 2021

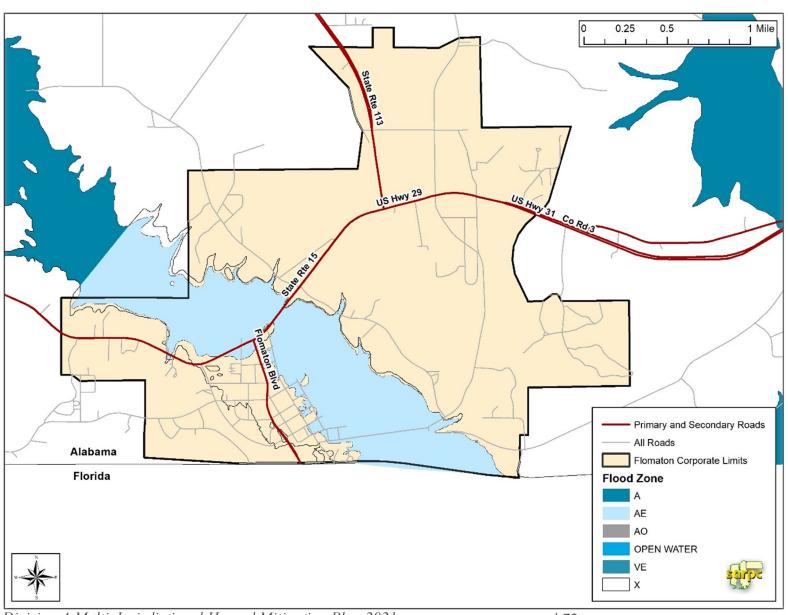
3.23 Brewton Flood Hazard Areas



3.24 East Brewton Flood Hazard Areas

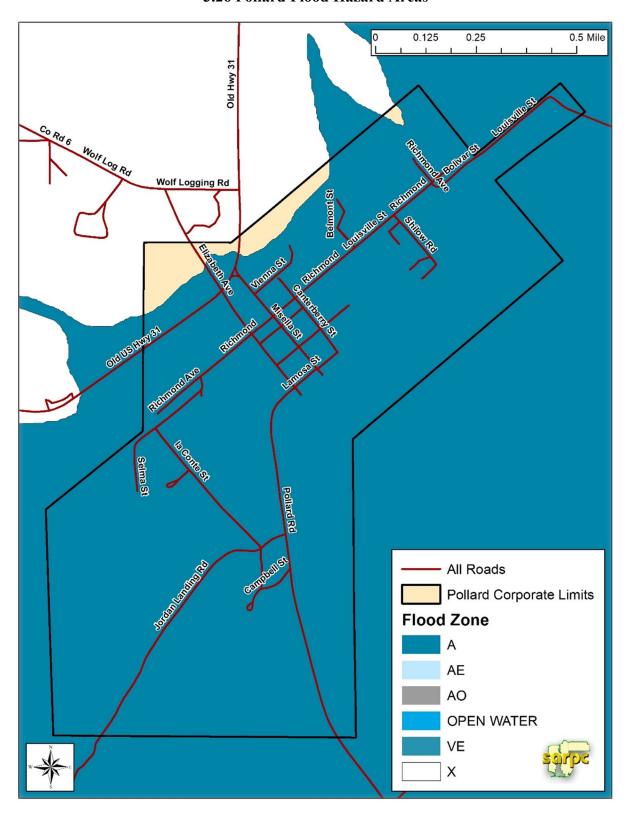


3.25 Flomaton Flood Hazard Areas

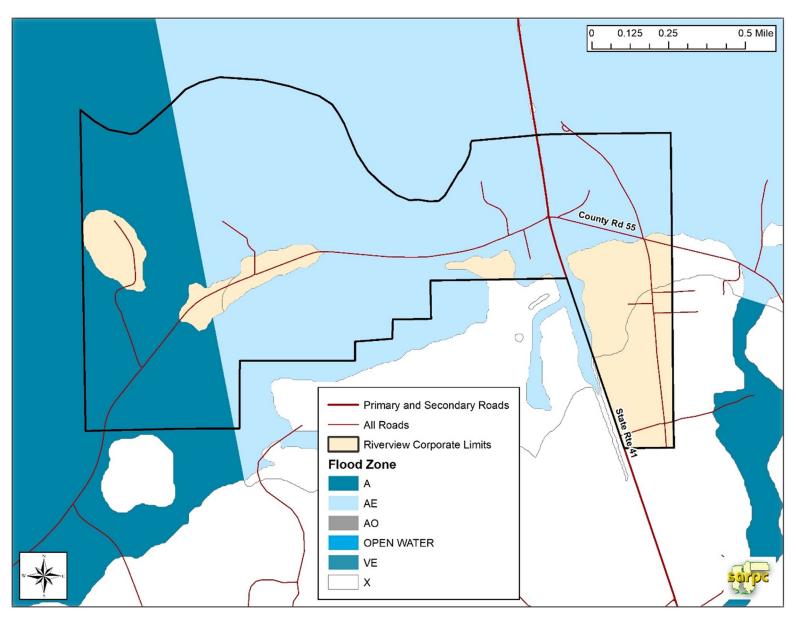


PAGE INTENTIONALLY LEFT BLANK

3.26 Pollard Flood Hazard Areas

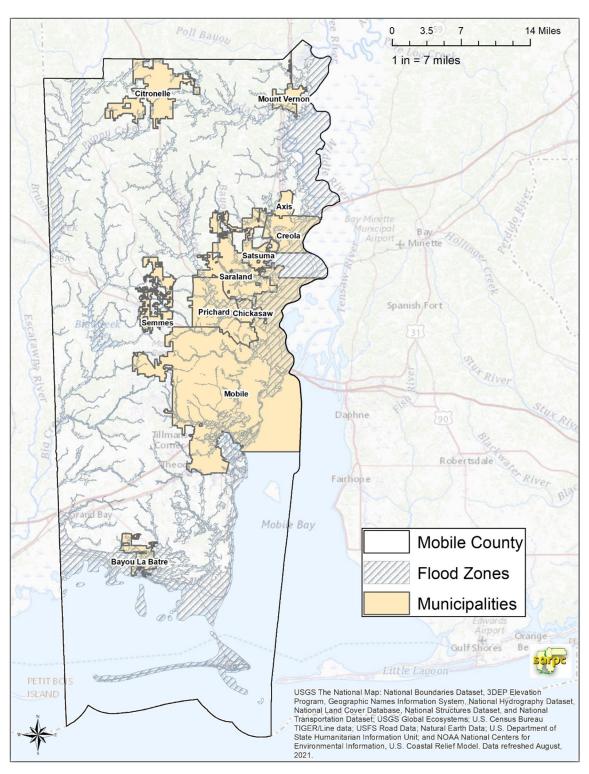


3.27 Riverview Flood Hazard Areas



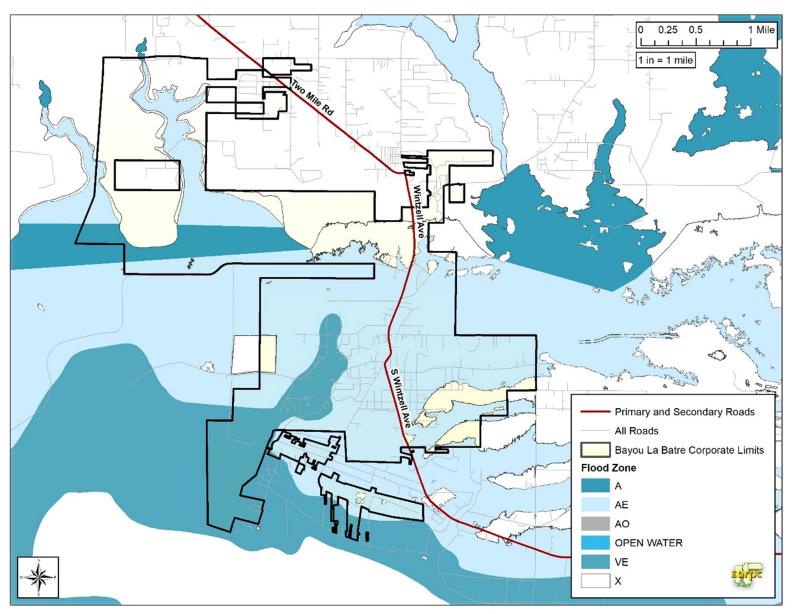
Division A Multi-Jurisdictional Hazard Mitigation Plan 2021

3.28 Mobile County Flood Hazard Areas

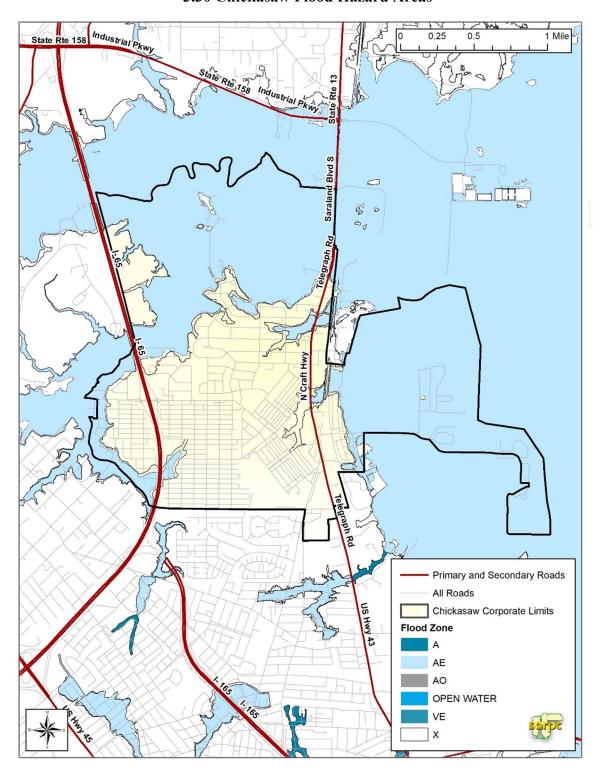


Source: Federal Emergency Management Agency (2019) Map Produced by South Alabama Regional Planning Commission (2021)

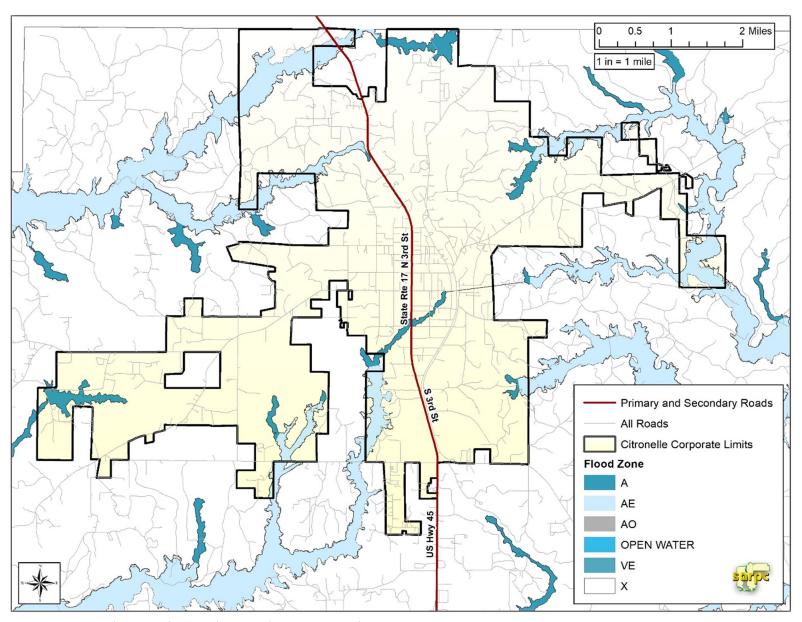
3.29 Bayou La Batre Flood Hazard Areas



3.30 Chickasaw Flood Hazard Areas

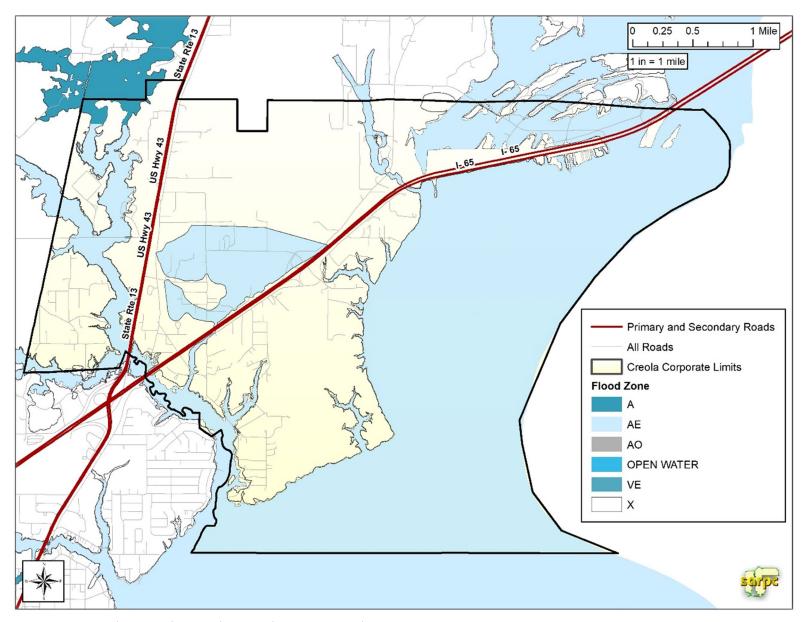


3.31 Citronelle Flood Hazard Areas



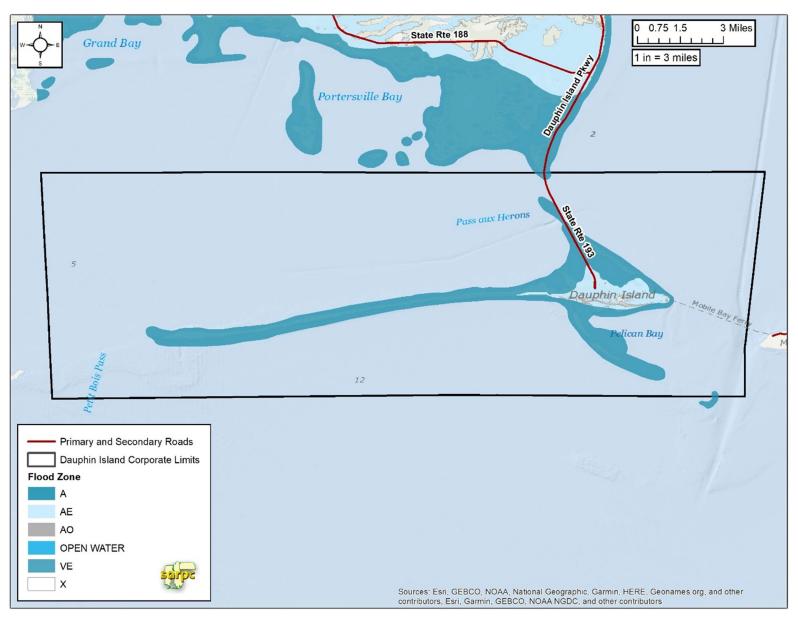
Division A Multi-Jurisdictional Hazard Mitigation Plan 2021

3.32 Creola Flood Hazard Areas

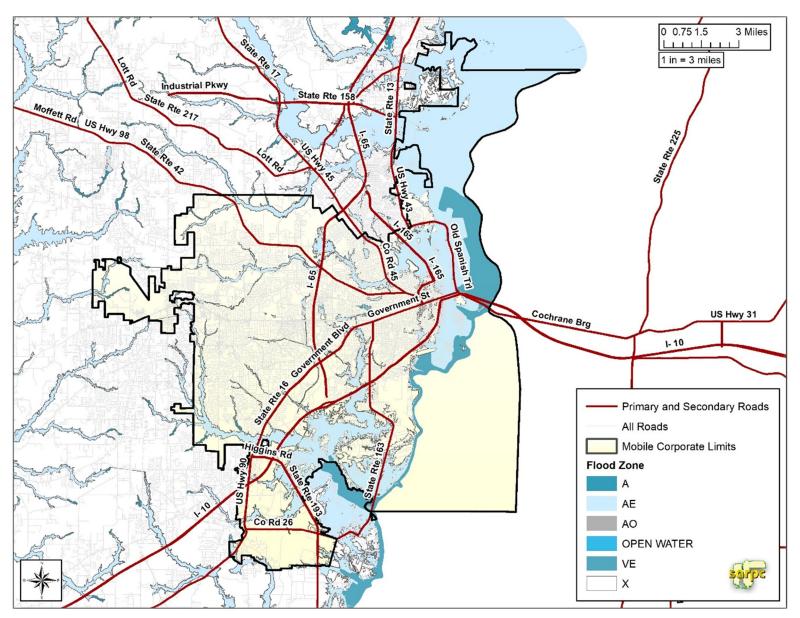


Division A Multi-Jurisdictional Hazard Mitigation Plan 2021

3.33 Dauphin Island Flood Hazard Areas

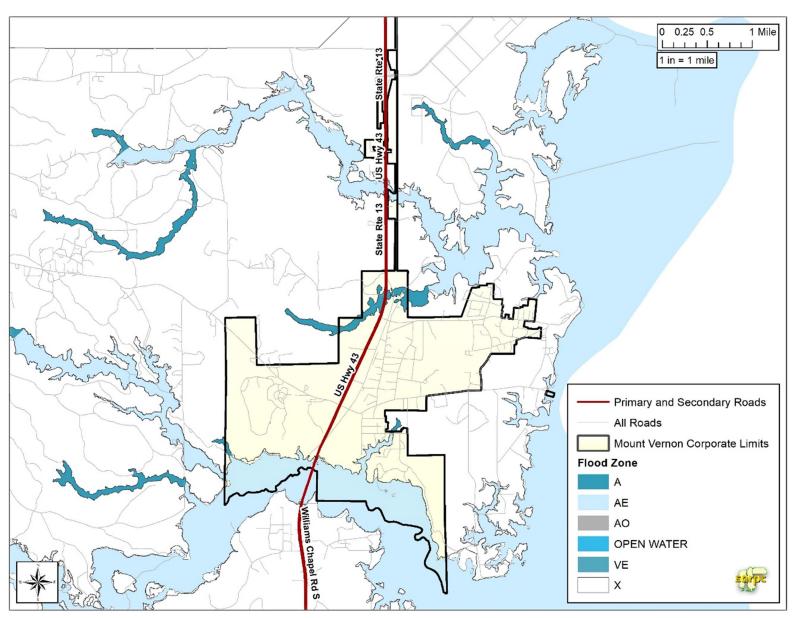


3.34 Mobile Flood Hazard Areas



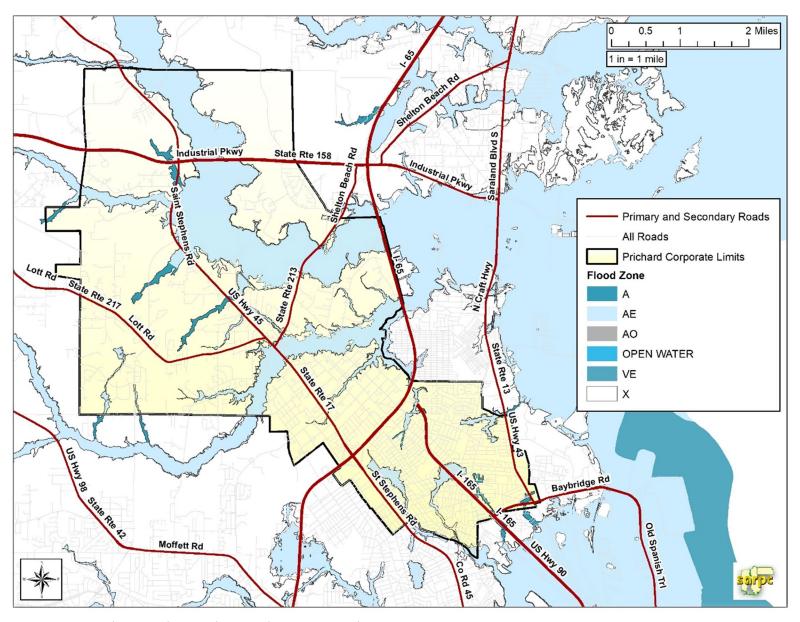
Division A Multi-Jurisdictional Hazard Mitigation Plan 2021

3.35 Mount Vernon Flood Hazard Areas

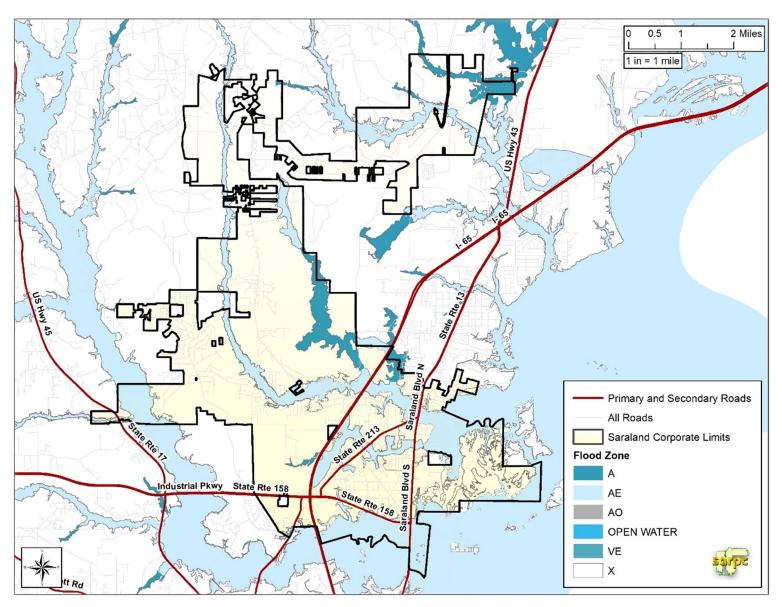


Division A Multi-Jurisdictional Hazard Mitigation Plan 2021

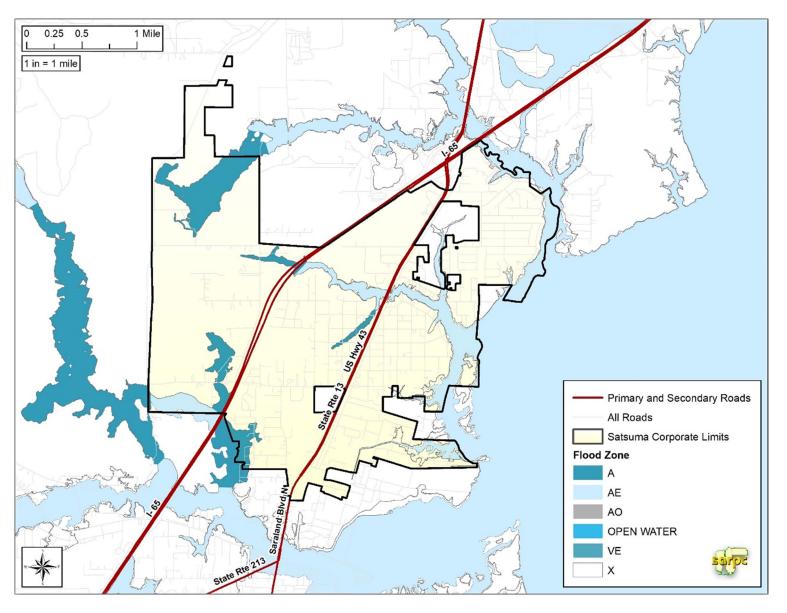
3.36 Prichard Flood Hazard Areas



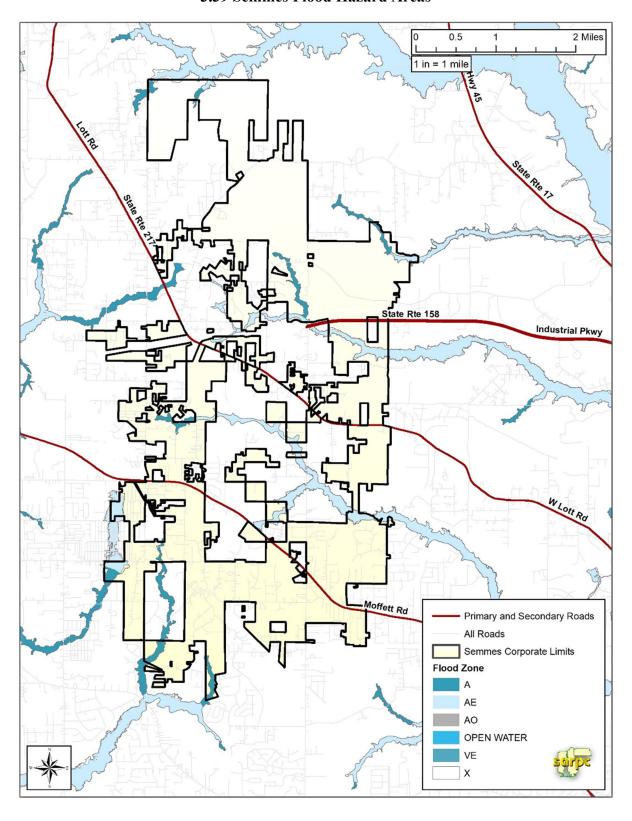
3.37 Saraland Flood Hazard Areas



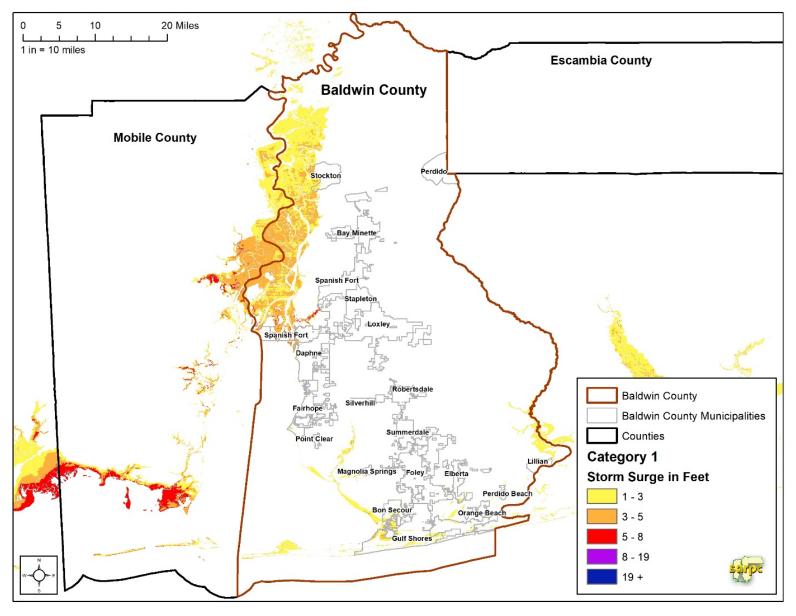
3.38 Satsuma Flood Hazard Areas

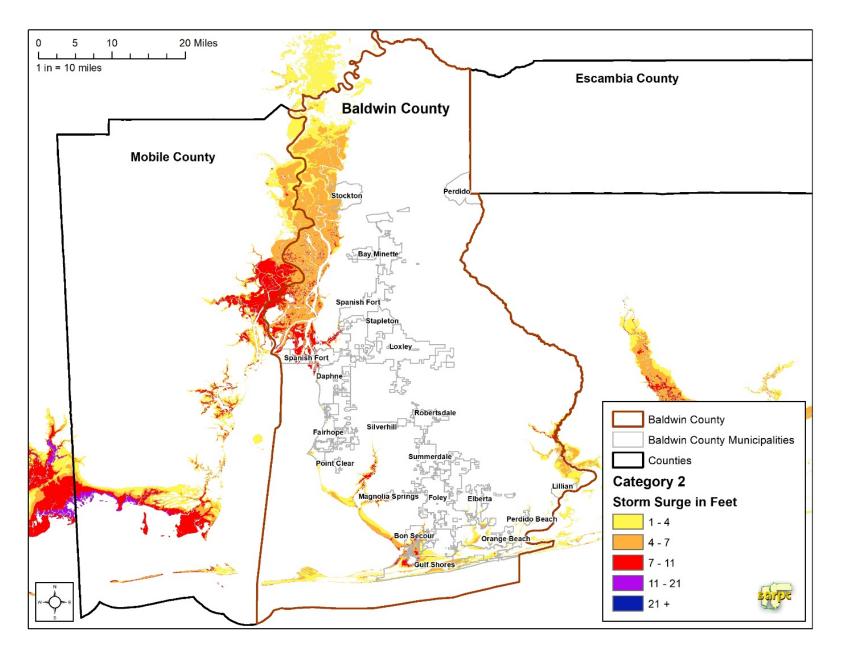


3.39 Semmes Flood Hazard Areas



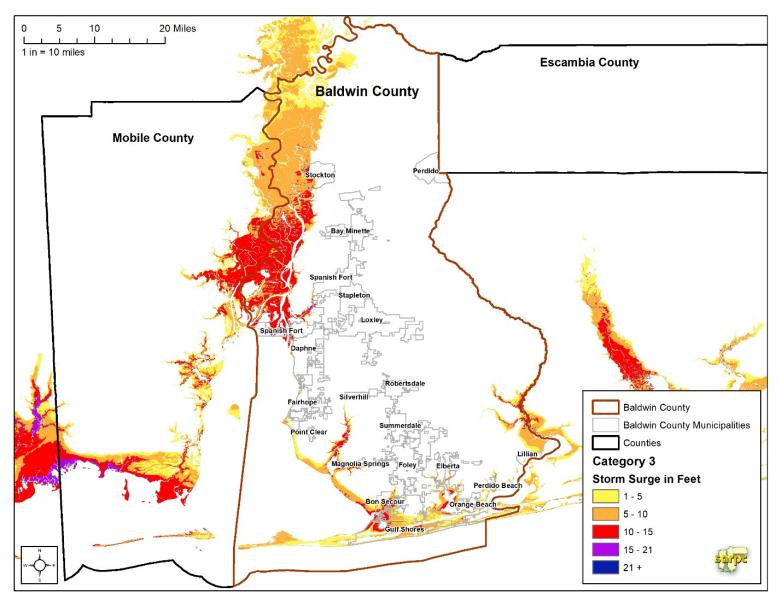
3.40 Baldwin County Storm Surge Levels Category 1



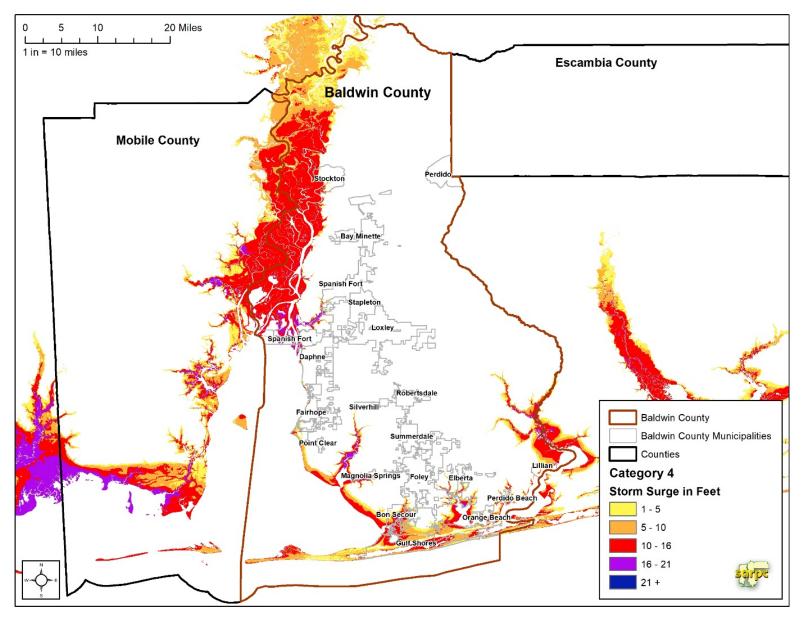


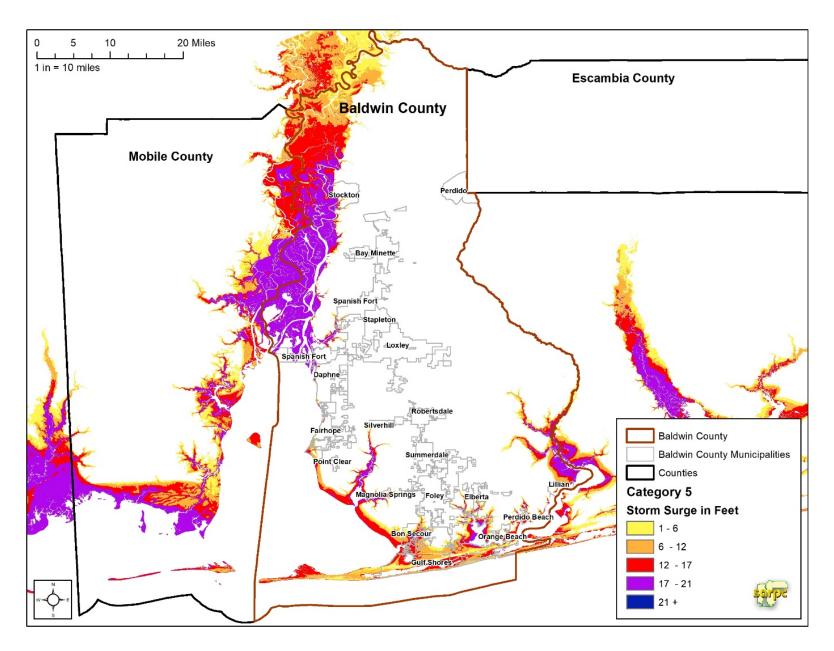
Division A Multi-Jurisdictional Hazard Mitigation Plan 2021

3.42 Baldwin County Storm Surge Levels Category 3



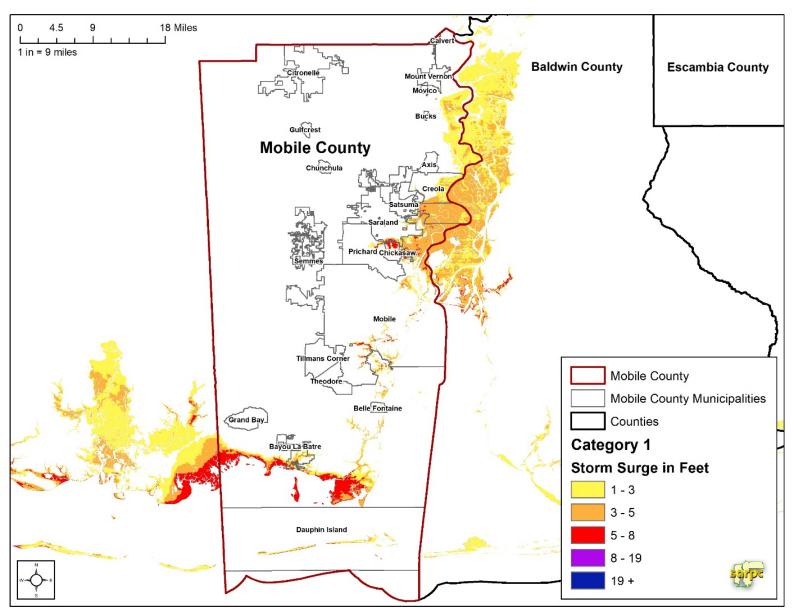
3.43 Baldwin County Storm Surge Levels Category 4



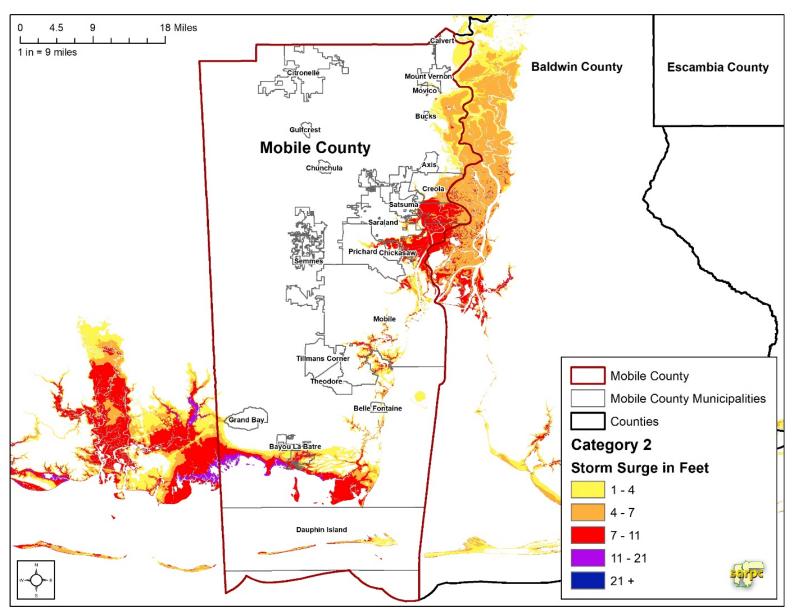


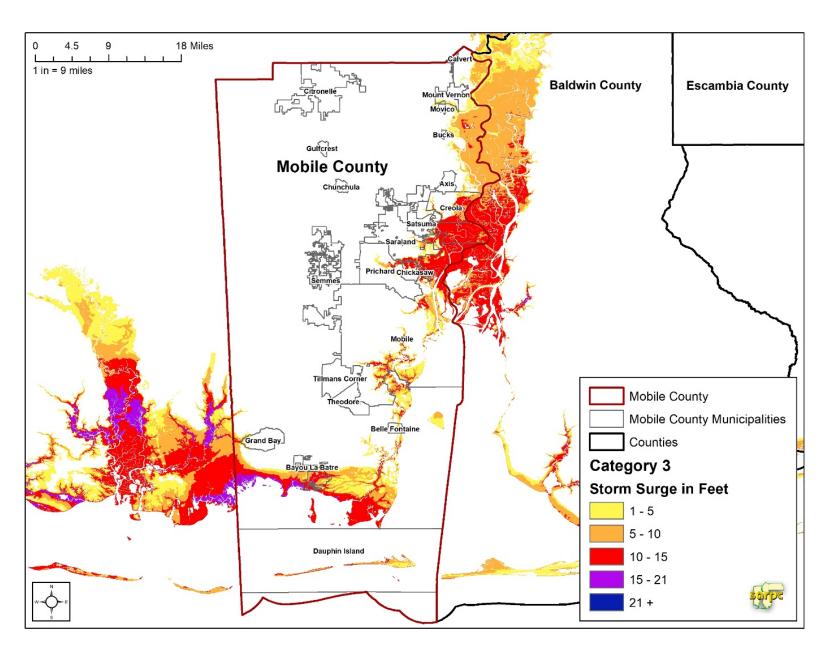
Division A Multi-Jurisdictional Hazard Mitigation Plan 2021

3.45 Mobile County Storm Surge Levels Category 1

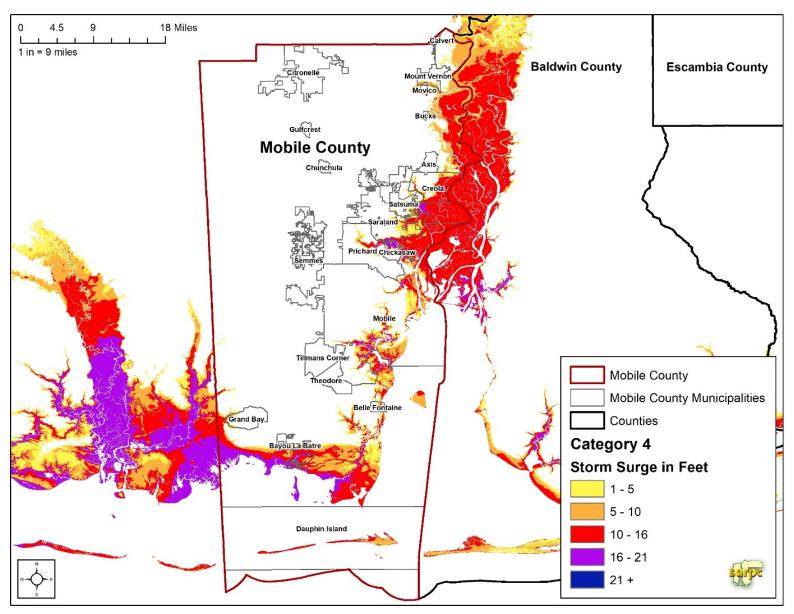


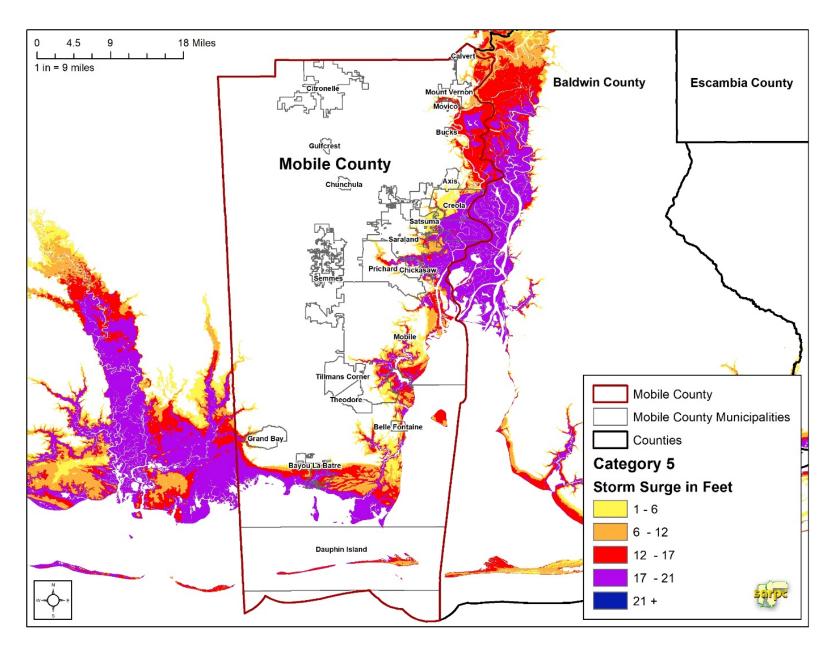
3.46 Mobile County Storm Surge Levels Category 2



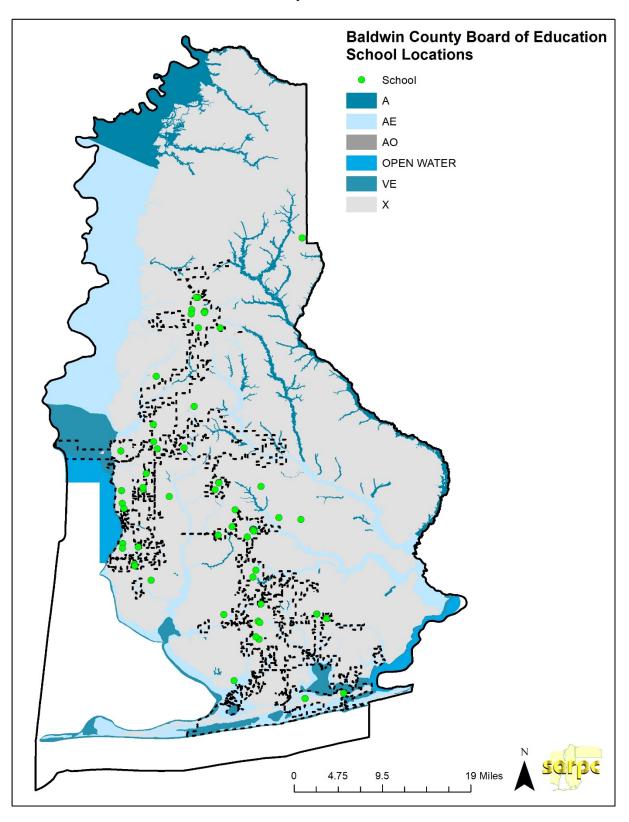


3.48 Mobile County Storm Surge Levels Category 4

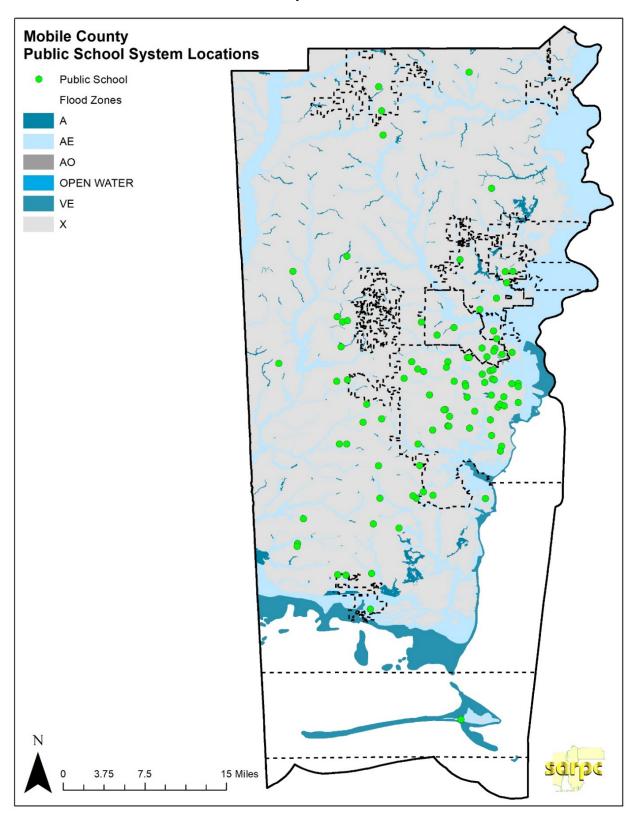




3.50 Baldwin County Public School Locations



3.51 Mobile County Public School Locations



Extent

Flash Flooding

Flash flooding can occur at any location due to the nature of the hazard. Flash flooding generally affects a much smaller area than riverine flooding and has a much more rapid onset. In the planning area, there are many areas prone to flash flooding. The lack of drainage infrastructure, undersized drainage infrastructure, and damaged drainage infrastructure exacerbates flash flooding in many areas. Property damage and damage to roadways are the two primary concerns relating to flash flooding.

Riverine Flooding

The magnitude of riverine flooding events is influenced by how much water enters the waterway upstream and the rate at which it does. The frequency of riverine flooding events largely depends on the frequency of weather events. Periodic riverine flooding on adjacent lands is a natural occurrence. The most common method used to express flood frequency is a percent chance of occurrence in a given year, or annual probability within a FEMA identified floodplain. A 100-year flood event has a one percent (1%) chance of occurring in any year within that floodplain. However, these type floods can occur multiple times during a 100-year period, as described in the Historical Occurrences below.

Coastal Flooding

NOAA defines coastal flooding as flooding which occurs when water is driven on to land from an adjacent body of water. This generally occurs when there are significant storms, such as tropical storms and hurricanes.

Within the floodplain, a flood event can be expected to inundate the area with several feet of water, which varies across the region, but can be up to almost two feet above flood stage as noted by the highest recorded floods described at multiple points in the region.

Table 3.11 provides *Flood Extent by Jurisdiction*.

Table 3.11 Flood Extent by Jurisdiction

Jurisdiction	Extent					
Baldwin County	Flooding depths 1 +/- 16 feet affecting agricultural lands, persons, structure and					
	infrastructure					
City of Bay Minette	Localized flooding from 1 +/- 6 feet affecting persons, structures and infrastruc-					
	ture.					
City of Daphne	Localized flooding from 1 +/- 16 feet affecting persons, structures and infra-					
	structure.					
Town of Elberta	Localized flooding from 1 +/- 16 feet affecting persons, structures and infra-					
	structure.					

Jurisdiction	Extent
City of Fairhope	Localized flooding from 1 +/- 16 feet affecting persons, structures and infra-
	structure
City of Foley	Localized flooding from 1 +/- 8 feet affecting persons, structures and infrastruc-
	ture
City of Gulf Shores	Flooding depths from 1 +/- 16 feet affecting persons, structures and infrastruc-
	ture.
Town of Loxley	Minimal localized flooding to +/- 1 foot affecting persons, structures and infra-
	structure
Town of Magnolia	Localized flooding from 1 +/- 16 feet affecting persons, structures and infra-
Springs	structure.
City of Orange Beach	Flooding depths from 1 +/- 16 feet affecting persons, structures and infrastruc-
and a stange Board	ture
City of Robertsdale	Some localized flooding from 1 +/- 8 feet affecting persons, structures and in-
	frastructure
Town of Silverhill	Some localized flooding from 1 +/- 8 feet affecting persons, structures and in-
Town of Sirverini	frastructure
Town of Spanish Fort	Localized flooding from 1 +/-16 feet affecting persons, structures and infrastruc-
Town or Spainish Fort	ture
Town of Summerdale	Localized flooding from 1 +/- 6 feet affecting agricultural lands, persons, struc-
Town of Summercule	tures and infrastructure
Town of Perdido	Localized flooding from 1 +/-16 feet affecting persons, structures and infrastruc-
Beach	ture
Escambia County	Flooding depths to +/- 1; minimal impact to agricultural lands, persons, structure
Liscamora County	and infrastructure
City of Atmore	Localized flooding from 1 +/- 6 feet affecting persons, structures and infrastruc-
City of Million	ture
City of Brewton	Localized flooding from 1 +/- 4 feet affecting persons, structures and infrastruc-
City of Biewich	ture
City of East Brewton	Localized flooding to depths from less than 1 foot; minimal impact on persons,
	structures and infrastructure
Town of Flomaton	Localized flooding to depths from less than 1 foot; minimal impact on persons,
Town of Fromaton	structures and infrastructure
Town of Pollard	Localized flooding to depths from less than 1 foot; minimal impact on persons,
10 WH OI I OHAIG	structures and infrastructure
Town of Riverview	Localized flooding to depths from less than 1 foot; minimal impact on persons,
	structures and infrastructure
Mobile County	Flooding depths 1 +/- 16 feet affecting agricultural lands, persons, structure and
	infrastructure
City of	Flooding depths from 1 +/- 16 feet affecting persons, structures and infrastruc-
Bayou La Batre	ture
City of Chickasaw	Flooding depths from 1 +/- 8 feet affecting persons, structures and infrastructure
City of Citronelle	Flooding depths from 1 +/- 4 feet affecting persons, structures and infrastructure
	6 r
City of Creola	Flooding depths from 1 +/- 8 feet affecting persons, structures and infrastructure
Town of	Flooding depths from 1 +/- 16 feet affecting persons, structures and infrastruc-
Dauphin Island	ture
L 1	I

Jurisdiction	Extent
City of Mobile	Flooding depths from 1 +/- 16 feet affecting persons, structures and infrastruc-
	ture
Town of Mount	Flooding depths from 1 +/- 6 feet affecting persons, structures and infrastructure
Vernon	
City of Prichard	Flooding depths from 1 +/- 6 feet affecting persons, structures and infrastructure
City of Saraland	Flooding depths from 1 +/- 8 feet affecting persons, structures and infrastructure
City of Satsuma	Flooding depths from 1 +/- 16 feet affecting persons, structures and infrastruc-
	ture
City of Semmes	Flooding depths from 1 +/- 6 feet affecting persons, structures and infrastructure

Historical Occurrences

Information from the National Climatic Data Center reports a total of ninety-four flood events since 2000 within the planning area. The total estimated property and crop damage for these events totals over 38 million dollars. Descriptions of flooding events with the most damage since 2000 are described below. Unfortunately, further information about flood level amounts, for the counties or the jurisdictions was not available.

- May 18, 2003 (\$500,000 in damage in Central Baldwin County): Excessive rainfall occurred over a 12-hour period, with radar estimating rainfall totals of 11 to 15 inches. This produced flooding from Bay Minette to Spanish Fort to Daphne. Bay Minette had eleven homes flooded, and several homes were also flooded in the Daphne area. Several roads were closed, and a few bridges were washed out. The bridge washouts forced residents to take long detours for several weeks, until the bridges were rebuilt.
- December 14, 2009 (\$1,250,000 in damage in Escambia County): Heavy rain produced widespread flash flooding in Atmore. Numerous homes, businesses, and roads were flooded. Several cars were stranded in the streets of downtown Atmore. Slow moving thunderstorms produced heavy rains that caused widespread flooding in portions of south central and southwest Alabama. Flooding from area rivers and small streams produced the most widespread flooding in portions of Escambia County, Alabama in the Atmore, Flomaton and Brewton areas. The Federal Emergency Management Agency places the estimates for flood damage to property near 5.9 million U.S. Dollars in Escambia County, Alabama for this episode.
- April 29, 2014 (\$27,000,000 in damage in Baldwin County): A strong storm system brought record flooding along with severe thunderstorms that produced damaging winds and tornadoes to the region. The southern half of Baldwin County experienced historic flooding the night of April 29th into the early morning of April 30th. Rain totals of 12 to 24 inches were reported, with the maximum rainfall occurring in a swath from Foley south to Gulf Shores and Orange Beach, east to the Florida state line. The highest reported was 23.67 inches in Orange Beach via a CoCoRAHS observer. The Fish River at Silverhill crested at record high level of 23.18 feet. The Styx River at Elsanor experienced its second

highest crest on record at 20.90 feet. 1400 homes and businesses experienced flooding and private property losses are estimated at \$17 million with another \$10 million estimated for infrastructure damage. Almost every road south of Highway 104 experienced flooding. Numerous roads were flooded between Highway 104 and just north of Interstate 10. The flooding resulted in extensive damage to numerous roads and bridges throughout the county. Emergency management officials reported having to rescue dozens of people from homes and vehicles due the rapid rise of the water. A significant portion of the bluff in Spanish Fort, along Patrician Drive, was washed away. A 67-year-old man was killed in Foley when his car was swept off Airport Drive by fast rising water from the adjacent Magnolia River.

- April 29, 2014 (\$6,500,000 in damage in Mobile County): The same storm mentioned above brought severe rain to Mobile County, as ten to seventeen inches of rain fell across much of central and southern Mobile County. Most of that rain fell during the evening of April 29th through the early morning of April 30th. Widespread flash flooding was reported across central and southern Mobile County, including the city of Mobile. Numerous roads were closed due to being impassable and dozens of people had to be rescued from cars that drove into flooded areas. Massive sinkholes developed on Girby Street and on Dauphin Street at McGregor Street. Homes were flooded in a Theodore subdivision.
- January 2, 2017 (\$600,000 in damage in Baldwin County): A surface low developed over the southern Plains and moved east into the Tennessee Valley, resulting in numerous thunderstorms across the area that produced damaging winds and flooding across southwest and south-central Alabama. Significant flash flooding occurred, especially in the Foley area, due to 5 to 7 inches of rain falling the span of only a couple of hours. A water rescue had to be performed on Fernwood Circle due to the rapid rise of Sandy Creek. Numerous roads in the central and southern half of the county were flooded and closed, with several sustaining damage due to the flooding.

Table 3.12, below, provides historical occurrence data for flooding for the period covering 2000-2020.

Table 3.12 Division A- SARPC Planning Area Flooding Occurrences 2000-2020

Location	County	Date	Type	Deaths	Injuries	Property	Crop
						Damage	Damage
Mobile	Mobile	03/19/00	Flash Flood	0	0	\$25,000	\$0
Mobile	Mobile	11/06/00	Flash Flood	0	0	\$0	\$0
Countywide	Baldwin	03/03/01	Flash Flood	0	0	\$15,000	\$0
Countywide	Escambia	03/03/01	Flash Flood	0	0	\$10,000	\$0
Countywide	Mobile	03/03/01	Flash Flood	0	0	\$15,000	\$0
Mobile	Mobile	03/12/01	Flash Flood	0	0	\$3,000	\$0
Central Portion	Mobile	07/12/01	Flash Flood	0	0	\$0	\$0
Mobile	Mobile	08/12/01	Flash Flood	0	0	\$0	\$0

Location	County	Date	Type	Deaths	Injuries	Property Damage	Crop Damage
(MOB) Mobile Bates Field	Mobile	08/28/01	Flash Flood	0	0	\$1,000	\$0
Point Clear	Baldwin	09/14/02	Flash Flood	0	0	\$0	\$0
Theodore	Mobile	09/14/02	Flash Flood	0	0	\$0	\$0
Theodore	Mobile	09/24/02	Flash Flood	0	0	\$0	\$0
Foley	Baldwin	09/25/02	Flash Flood	0	0	\$0	\$0
South Portion	Baldwin	09/25/02	Flash Flood	0	0	\$0	\$0
Theodore	Mobile	09/25/02	Flash Flood	0	0	\$0	\$0
South Portion	Mobile	09/25/02	Flash Flood	0	0	\$0	\$0
Atmore	Escambia	09/26/02	Flash Flood	0	0	\$0	\$0
Central Portion	Mobile	12/31/02	Flash Flood	0	0	\$0	\$0
Central Portion	Baldwin	04/07/03	Flash Flood	0	0	\$0	\$0
Central Portion	Baldwin	05/18/03	Flash Flood	0	0	\$500,000	\$0
South Portion	Mobile	05/18/03	Flash Flood	0	0	\$0	\$0
South Portion	Mobile	05/18/03	Flash Flood	0	0	\$0	\$0
Central Portion	Baldwin	05/19/03	Flash Flood	0	0	\$0	\$0
Central Portion	Baldwin	06/06/03	Flash Flood	0	0	\$0	\$0
West Central Portion	Escambia	06/06/03	Flash Flood	0	0	\$0	\$0
Mobile	Mobile	06/06/03	Flash Flood	0	0	\$0	\$0
Countywide	Baldwin	06/30/03	Flash Flood	0	0	\$0	\$0
Countywide	Escambia	06/30/03	Flash Flood	0	0	\$0	\$0
Countywide	Mobile	06/30/03	Flash Flood	0	0	\$0	\$0
Countywide	Baldwin	07/01/03	Flash Flood	0	0	\$0	\$0
Countywide	Escambia	07/01/03	Flash Flood	0	0	\$0	\$0
Countywide	Mobile	07/01/03	Flash Flood	0	0	\$0	\$0
Foley	Baldwin	07/22/03	Flash Flood	0	0	\$0	\$0
Semmes	Mobile	02/25/04	Flash Flood	0	0	\$0	\$0
Stockton	Baldwin	05/17/04	Flash Flood	0	0	\$0	\$0
Satsuma	Mobile	06/01/04	Flash Flood	0	0	\$10,000	\$0
Poarch	Escambia	06/02/04	Flash Flood	0	0	\$0	\$0
East Portion	Baldwin	09/16/04	Flash Flood	0	0	\$0	\$0
West Portion	Escambia	09/16/04	Flash Flood	0	0	\$0	\$0
Central Portion	Escambia	10/19/04	Flash Flood	0	0	\$0	\$0
Central Portion	Baldwin	03/31/05	Flash Flood	0	0	\$10,000	\$0

Location	County	Date	Туре	Deaths	Injuries	Property Damage	Crop Damage
South Portion	Mobile	03/31/05	Flash Flood	0	0	\$5,000	\$0
South Portion	Baldwin	04/01/05	Flash Flood	0	0	\$100,000	\$0
South Portion	Mobile	04/01/05	Flash Flood	0	0	\$50,000	\$0
South Portion	Baldwin	04/06/05	Flash Flood	0	0	\$150,000	\$0
South Portion	Mobile	04/06/05	Flash Flood	0	0	\$25,000	\$0
Central Portion	Baldwin	04/30/05	Flash Flood	0	0	\$0	\$0
Central Portion	Mobile	04/30/05	Flash Flood	0	0	\$0	\$0
West Central Portion	Mobile	06/11/05	Flash Flood	0	0	\$0	\$0
West Portion	Baldwin	07/06/05	Flash Flood	0	0	\$0	\$0
Countywide	Mobile	07/06/05	Flash Flood	0	0	\$0	\$0
Countywide	Escambia	07/10/05	Flash Flood	0	0	\$0	\$0
Countywide	Baldwin	08/29/05	Flash Flood	0	0	\$0	\$0
Countywide	Escambia	08/29/05	Flash Flood	0	0	\$0	\$0
Countywide	Mobile	08/29/05	Flash Flood	0	0	\$0	\$0
Central Portion	Baldwin	05/29/06	Flash Flood	0	0	\$0	\$0
East Portion	Baldwin	06/16/06	Flash Flood	0	0	\$0	\$0
North Portion	Mobile	06/16/06	Flash Flood	0	0	\$0	\$0
Perdido	Baldwin	11/15/06	Flash Flood	0	0	\$0	\$0
Atmore	Escambia	11/15/06	Flash Flood	0	0	\$0	\$0
Semmes	Mobile	11/15/06	Flash Flood	0	0	\$0	\$0
Vaughn	Baldwin	04/01/07	Flash Flood	0	0	\$0	\$0
Brewton	Escambia	04/01/07	Flash Flood	0	0	\$0	\$0
Mobile	Mobile	04/01/07	Flash Flood	0	0	\$0	\$0
Wallace	Escambia	04/14/07	Flash Flood	0	0	\$0	\$0
Lillian	Baldwin	05/30/07	Flash Flood	0	0	\$0	\$0
Citronelle	Mobile	06/19/07	Flash Flood	0	0	\$0	\$0
Mobile	Mobile	07/04/07	Flash Flood	0	0	\$0	\$0
Fairhope	Baldwin	10/19/07	Flash Flood	0	0	\$100,000	\$0
Little River	Baldwin	10/23/07	Flash Flood	0	0	\$0	\$0
Citronelle	Mobile	10/23/07	Flash Flood	0	0	\$0	\$0
Stockton	Baldwin	01/31/08	Flash Flood	0	0	\$0	\$0
Boykin	Escambia	01/31/08	Flash Flood	0	0	\$0	\$0
Tanner Williams	Mobile	01/31/08	Flash Flood	0	0	\$0	\$0
Fairhope	Baldwin	04/05/08	Flash Flood	0	0	\$10,000	\$0
Grand Bay	Mobile	04/05/08	Flash Flood	0	0	\$15,000	\$0
Moffett	Mobile	05/03/08	Flash Flood	0	0	\$0	\$0

Location	County	Date	Туре	Deaths	Injuries	Property Damage	Crop Damage
Montrose	Baldwin	05/16/08	Flash Flood	0	0	\$10,000	\$0
Grand Bay	Mobile	05/16/08	Flash Flood	0	0	\$0	\$0
Spring Hill	Mobile	06/10/08	Flash Flood	0	0	\$5,000	\$0
(MOB) Mobile Bates Field	Mobile	08/16/08	Flash Flood	0	0	\$0	\$0
Spanish Ft	Baldwin	08/25/08	Flash Flood	0	0	\$2,000	\$0
Alabama Port	Mobile	08/25/08	Flash Flood	0	0	\$20,000	\$0
Montrose	Baldwin	09/01/08	Flash Flood	0	0	\$5,000	\$0
Piercie	Mobile	09/01/08	Flash Flood	0	0	\$250,000	\$0
Gulf Shores	Baldwin	10/07/08	Flash Flood	0	0	\$0	\$0
Robertsdale	Baldwin	12/10/08	Flash Flood	0	0	\$0	\$0
Appleton	Escambia	12/10/08	Flash Flood	0	0	\$0	\$0
Citronelle	Mobile	03/27/09	Flash Flood	0	0	\$0	\$0
Loxley	Baldwin	03/28/09	Flash Flood	0	0	\$0	\$0
Citronelle	Mobile	03/28/09	Flash Flood	0	0	\$0	\$0
Mobile	Mobile	03/28/09	Flash Flood	0	0	\$0	\$0
Grand Bay	Mobile	03/28/09	Flash Flood	0	0	\$0	\$0
Dauphin Is	Mobile	05/23/09	Flash Flood	0	0	\$0	\$0
Bayou La Batre	Mobile	05/23/09	Flash Flood	0	0	\$0	\$0
Orange Beach	Baldwin	11/09/09	Flash Flood	0	0	\$0	\$0
Theodore	Mobile	12/12/09	Flash Flood	0	0	\$0	\$0
Bay Minette	Baldwin	12/14/09	Flash Flood	0	0	\$0	\$0
Bay Minette	Baldwin	12/14/09	Flash Flood	0	0	\$0	\$0
Crossroads	Baldwin	12/14/09	Flash Flood	0	0	\$0	\$0
Appleton	Escambia	12/14/09	Flood	0	0	\$400,000	\$0
Flomaton	Escambia	12/14/09	Flood	0	0	\$362,000	\$0
Atmore	Escambia	12/14/09	Flash Flood	0	0	\$250,000	\$0
Atmore	Escambia	12/14/09	Flash Flood	0	0	\$1,250,000	\$0
Brewton	Escambia	12/14/09	Flash Flood	0	0	\$0	\$0
(MOB) Mobile Bates Field	Mobile	12/14/09	Flash Flood	0	0	\$0	\$0
Saraland	Mobile	12/14/09	Flash Flood	0	0	\$0	\$0
Perdido	Baldwin	12/15/09	Flash Flood	0	0	\$0	\$0
Dawes	Mobile	01/20/10	Flash Flood	0	0	\$0	\$0
Spring Hill	Mobile	01/20/10	Flash Flood	0	0	\$0	\$0
Mertz	Mobile	01/20/10	Flash Flood	0	0	\$0	\$0
Mobile Aerospace Airport	Mobile	01/20/10	Flash Flood	0	0	\$0	\$0
Dawes	Mobile	01/20/10	Flash Flood	0	0	\$0	\$0

Location	County	Date	Type	Deaths	Injuries	Property Damage	Crop Damage
Seven Hills	Mobile	01/20/10	Flash Flood	0	0	\$0	\$0
Theodore	Mobile	01/20/10	Flash Flood	0	0	\$0	\$0
Seven Hills	Mobile	01/20/10	Flash Flood	0	0	\$0	\$0
Forest Hill	Mobile	01/20/10	Flash Flood	0	0	\$0	\$0
Atmore	Escambia	05/03/10	Flash Flood	0	0	\$0	\$0
Gasque	Baldwin	05/16/10	Flash Flood	0	0	\$0	\$0
Gasque	Baldwin	05/16/10	Flash Flood	0	0	\$0	\$0
Mobile	Mobile	08/15/10	Flash Flood	0	0	\$0	\$0
Atmore	Escambia	03/09/11	Flash Flood	0	0	\$0	\$0
Brewton	Escambia	03/09/11	Flash Flood	0	0	\$0	\$0
Citronelle	Mobile	03/09/11	Flash Flood	0	0	\$0	\$0
Chickasaw	Mobile	03/09/11	Flash Flood	0	0	\$0	\$0
Bayou La Batre	Mobile	03/09/11	Flash Flood	0	0	\$0	\$0
Forest Hill	Mobile	03/09/11	Flash Flood	0	0	\$0	\$0
Theodore	Mobile	09/03/11	Flash Flood	0	0	\$0	\$0
Daphne	Baldwin	05/02/12	Flash Flood	0	0	\$0	\$0
Eight Mile	Mobile	05/02/12	Flash Flood	0	0	\$0	\$0
(MOB) Mobile Bates Field	Mobile	05/02/12	Flash Flood	0	0	\$0	\$0
River Park	Baldwin	06/09/12	Flash Flood	0	0	\$0	\$0
Dawes	Mobile	06/09/12	Flash Flood	0	0	\$0	\$0
Theodore Idle Hour A	Mobile	06/09/12	Flash Flood	0	0	\$5,000	\$0
(MOB) Mobile Bates Field	Mobile	02/25/13	Flood	0	0	0	0
Chunchula	Mobile	05/01/13	Flash Flood	0	0	\$0	\$0
Chunchula	Mobile	06/02/13	Flash Flood	0	0	\$0	\$0
Foley	Baldwin	07/04/13	Flash Flood	0	0	\$0	\$0
Yupon	Baldwin	07/11/13	Flash Flood	0	0	\$0	\$0
Fairhope Municipal Air- port	Baldwin	07/11/13	Flash Flood	0	0	\$0	\$0
Barnwell	Baldwin	07/11/13	Flash Flood	0	0	\$0	\$0
Montrose	Baldwin	07/11/13	Flash Flood	0	0	\$0	\$0
Houstonville	Baldwin	07/11/13	Flash Flood	0	0	\$75,000	\$0
Fairhope	Baldwin	07/11/13	Flood	0	0	\$0	\$0
Josephine	Baldwin	07/28/13	Flash Flood	0	0	\$0	\$0
Bayou La Batre	Mobile	07/28/13	Flash Flood	0	0	\$0	\$0
Semmes	Mobile	09/03/13	Flash Flood	0	0	\$0	\$0
Atmore	Escambia	09/24/13	Flood	0	0	\$5,000	\$0

Location	County	Date	Type	Deaths	Injuries	Property Damage	Crop Damage
Spring Hill	Mobile	03/16/14	Flash Flood	0	0	\$0	\$0
Robertsdale	Baldwin	03/28/14	Flood	0	0	\$15,000	\$0
Summerdale	Baldwin	03/28/14	Flood	0	0	\$0	\$0
Point Clear	Baldwin	03/28/14	Flood	0	0	\$0	\$0
Foley	Baldwin	04/14/14	Flash Flood	0	0	\$0	\$0
Taylors Camp	Baldwin	04/14/14	Flash Flood	0	0	\$100,000	\$0
Taylors Camp	Baldwin	04/14/14	Flash Flood	0	0	\$25,000	\$0
Fairhope	Baldwin	04/14/14	Flash Flood	0	0	\$0	\$0
Fairhope	Baldwin	04/14/14	Flash Flood	0	0	\$0	\$0
Fairhope	Baldwin	04/14/14	Flash Flood	0	0	\$0	\$0
Magnolia Springs	Baldwin	04/14/14	Flash Flood	0	0	\$0	\$0
Grand Bay	Mobile	04/14/14	Flash Flood	0	0	\$0	\$0
Spanish Ft	Baldwin	04/29/14	Flash Flood	1	1	\$27,000,000	\$0
(MOB) Mobile Bates Field	Mobile	04/29/14	Flash Flood	0	0	\$0	\$0
Mertz	Mobile	04/29/14	Flash Flood	0	0	\$5,000	\$0
Saraland	Mobile	04/29/14	Flash Flood	0	0	\$6,500,000	\$0
Lillian	Baldwin	05/02/14	Flood	1	0	\$0	\$0
Fairhope	Baldwin	05/14/14	Flash Flood	0	0	\$0	\$0
Magnolia Springs	Baldwin	05/14/14	Flash Flood	0	0	\$0	\$0
Malta	Escambia	05/14/14	Flash Flood	0	0	\$0	\$0
Flomaton	Escambia	05/14/14	Flash Flood	0	0	\$0	\$0
Heron Bay	Mobile	04/12/15	Flash Flood	0	0	\$200,000	\$0
Heron Bay	Mobile	04/13/15	Flood	0	0	0	0
Mertz	Mobile	05/15/15	Flash Flood	0	0	\$1,000	\$0
Spring Hill	Mobile	09/27/15	Flash Flood	0	0	\$200,000	\$0
Grand Bay	Mobile	12/23/15	Flash Flood	0	0	\$30,000	\$0
Romar Beach	Baldwin	02/23/16	Flash Flood	0	0	\$0	\$0
Perdido Beach	Baldwin	02/23/16	Flood	0	0	\$0	\$0
(MOB) Mobile Bates Field	Mobile	03/11/16	Flash Flood	0	0	\$0	\$0
Irvington	Mobile	03/11/16	Flash Flood	0	0	\$0	\$0
Chickasaw	Mobile	03/11/16	Flash Flood	0	0	\$0	\$0
Chickasaw	Mobile	03/11/16	Flash Flood	0	0	\$0	\$0
Theodore	Mobile	03/11/16	Flash Flood	0	0	\$0	\$0
Semmes	Mobile	03/24/16	Flash Flood	0	0	\$0	\$0
Plateau	Mobile	03/24/16	Flash Flood	0	0	\$0	\$0
Mobile	Mobile	03/24/16	Flash Flood	0	0	\$0	\$0

Location	County	Date	Type	Deaths	Injuries	Property Damage	Crop Damage
(MOB) Mobile Bates Field	Mobile	03/24/16	Flood	0	0	0	0
Forest Hill	Mobile	03/24/16	Flood	0	0	\$10,000	0
Semmes	Mobile	03/24/16	Flood	0	0	\$10,000	0
Appleton	Escambia	04/01/16	Flash Flood	0	0	\$0	\$0
Keego	Escambia	04/01/16	Flash Flood	0	0	\$0	\$0
Spanish Ft	Baldwin	05/02/16	Flash Flood	0	0	\$10,000	\$0
Robertsdale	Baldwin	08/10/16	Flash Flood	0	0	\$0	\$0
Elberta	Baldwin	08/12/16	Flash Flood	0	0	\$0	\$0
Bon Secour	Baldwin	08/12/16	Flood	0	0	\$0	\$0
Cottage Hill	Mobile	08/12/16	Flood	0	0	\$0	\$0
Belforest	Baldwin	01/02/17	Flash Flood	0	0	\$600,000	\$0
Big Creek Lake	Mobile	04/03/17	Flash Flood	0	0	\$0	\$0
Saraland	Mobile	05/20/17	Flash Flood	0	0	\$0	\$0
(MOB) Mobile Bates Field	Mobile	05/20/17	Flash Flood	0	0	\$0	\$0
Saraland	Mobile	05/20/17	Flash Flood	0	0	\$0	\$0
Grand Bay	Mobile	06/06/17	Flash Flood	0	0	\$0	\$0
Tillmans Corner	Mobile	06/06/17	Flash Flood	0	0	\$0	\$0
Tillmans Corner	Mobile	06/06/17	Flash Flood	0	0	\$0	\$0
Elsanor	Baldwin	06/07/17	Flash Flood	0	0	\$0	\$0
Gulf Shores	Baldwin	06/20/17	Flash Flood	0	0	\$0	\$0
Appleton	Escambia	06/21/17	Flash Flood	0	0	\$0	\$0
(MOB) Mobile Bates Field	Mobile	06/21/17	Flash Flood	0	0	\$0	\$0
Cottage Hill	Mobile	08/04/17	Flash Flood	0	0	\$0	\$0
(MOB) Mobile Bates Field	Mobile	08/04/17	Flash Flood	0	0	\$0	\$0
Dawes	Mobile	08/04/17	Flash Flood	0	0	\$0	\$0
St Elmo Airport	Mobile	08/29/17	Flash Flood	0	0	\$0	\$0
(MOB) Mobile Bates Field	Mobile	08/29/17	Flash Flood	0	0	\$0	\$0
Orange Beach	Baldwin	08/30/17	Flash Flood	0	0	\$0	\$0
Magnolia Springs	Baldwin	08/30/17	Flash Flood	0	0	\$0	\$0
Seven Hills	Mobile	08/30/17	Flash Flood	0	0	\$0	\$0
Loxley	Baldwin	10/22/17	Flash Flood	0	0	\$30,000	\$0

Location	County	Date	Type	Deaths	Injuries	Property Damage	Crop Damage
Silverhill	Baldwin	10/22/17	Flash Flood	0	0	\$0	\$0
Silverhill	Baldwin	10/22/17	Flash Flood	0	0	\$0	\$0
Marlow	Baldwin	10/22/17	Flash Flood	0	0	\$50,000	\$0
Grand Bay	Mobile	10/22/17	Flash Flood	0	0	\$30,000	\$0
Grand Bay	Mobile	10/22/17	Flash Flood	0	0	\$0	\$0
Mobile	Mobile	10/22/17	Flash Flood	0	0	\$30,000	\$0
Tillmans	Mobile	10/22/17	Flash Flood	0	0	\$0	\$0
Corner							
Oak	Baldwin	10/28/17	Flash Flood	0	0	\$0	\$0
Elberta	Baldwin	10/28/17	Flash Flood	0	0	\$0	\$0
Mobile	Mobile	08/01/18	Flash Flood	0	0	\$0	\$0
Cottage Hill	Mobile	08/01/18	Flash Flood	0	0	\$0	\$0
Plateau	Mobile	08/01/18	Flash Flood	0	0	\$0	\$0
Mobile	Mobile	08/01/18	Flash Flood	0	0	\$0	\$0
(MOB) Mobile Bates Field	Mobile	09/04/18	Flash Flood	0	0	\$0	\$0
Turkey Branch	Baldwin	09/05/18	Flash Flood	0	0	\$0	\$0
Elsanor	Baldwin	09/05/18	Flash Flood	0	0	\$0	\$0
Malbis	Baldwin	09/05/18	Flash Flood	0	0	\$0	\$0
Seminole	Baldwin	09/05/18	Flood	0	0	\$0	\$0
Lillian	Baldwin	12/01/18	Flash Flood	0	0	\$0	\$0
Mobile	Mobile	05/09/19	Flash Flood	0	0	\$5,000	\$0
Cottage Hill	Mobile	06/28/19	Flash Flood	0	0	\$5,000	\$0
N/A	Baldwin	07/12/19	Coastal Flooding	0	0	\$0	\$0
N/A	Baldwin	07/12/19	Coastal Flooding	0	0	\$0	\$0
N/A	Mobile	07/12/19	Coastal Flooding	0	0	\$0	\$0
N/A	Mobile	07/12/19	Coastal Flooding	0	0	\$0	\$0
N/A	Mobile	07/12/19	Coastal Flooding	0	0	\$0	\$0
N/A	Mobile	07/12/19	Coastal Flooding	0	0	\$0	\$0
N/A	Mobile	07/12/19	Coastal Flooding	0	0	\$0	\$0
N/A	Mobile	07/12/19	Coastal Flooding	0	0	\$0	\$0
N/A	Mobile	07/12/19	Coastal Flooding	0	0	\$0	\$0
N/A	Mobile	07/12/19	Coastal Flooding	0	0	\$0	\$0

Location	County	Date	Type	Deaths	Injuries	Property	Crop
						Damage	Damage
Bayou La Batre	Mobile	08/26/19	Flash Flood	0	0	\$0	\$0
Airport							
Orchard	Mobile	09/19/19	Flash Flood	0	0	\$100,000	\$0
N/A	Mobile	10/9/19	Coastal	0	0	\$0	\$0
			Flooding				
Saraland	Mobile	02/12/20	Flood	0	0	0	0
Nokomis	Escambia	04/23/20	Flash Flood	0	0	\$5,000	\$0
Magazine	Mobile	06/07/20	Flash Flood	0	0	\$25,000	\$0
Ft	Baldwin	09/15/20	Flash Flood	0	0	\$0	\$0
Morgan							
Barnwell	Baldwin	09/15/20	Flash Flood	0	0	\$0	\$0
Nokomis	Escambia	09/16/20	Flash Flood	0	0	\$0	\$0
Total				2	1	\$38,669,000	\$0

Source: NOAA Storm Events Database

Probability of Future Events

The division is both subject to flash and riverine flooding. Incidences and damages have been reported as a result of both. Risks vary by jurisdiction. The probability of riverine flooding occurring in the planning area is illustrated by the flood maps provided in Figures 3.3 through 3.5. These maps provide the areas susceptible to a one-percent annual chance flood (100-year flood-plain).

Flash flooding events are expected to increase in frequency and intensity. Rainfall levels are projected to increase leading to an increased chance of flash flooding. As development increases, the risk for flash flooding will increase as impermeable surfaces increase. Aging drainage infrastructure will contribute to an increase in flash flooding also. Based on the information provided in this profile, the probability of future flood events is considered to be high.

PAGE INTENTIONALLY LEFT BLANK.

3.2.5. High Winds (Hurricanes)

The SARPC Division A planning area is susceptible to high wind events from hurricanes, especially Baldwin and Mobile Counties, as they are both located on the Gulf of Mexico.

Background

Tropical systems are best described by the National Hurricane Center as the following. "A tropical cyclone is a rotating, organized system of clouds and thunderstorms that originates over tropical or subtropical waters and has a closed low-level circulation." Tropical cyclones rotate counterclockwise in the Northern Hemisphere. They are classified as follows:

- **Tropical Depression:** A tropical cyclone with maximum sustained winds of 38 mph (33 knots) or less.
- **Tropical Storm:** A tropical cyclone with maximum sustained winds of 39 to 73 mph (34 to 63 knots).
- **Hurricane:** A tropical cyclone with maximum sustained winds of 74 mph (64 knots) or higher. In the western North Pacific, hurricanes are called typhoons; similar storms in the Indian Ocean and South Pacific Ocean are called cyclone
- **Major Hurricane:** A tropical cyclone with maximum sustained winds of 111 mph (96 knots) or higher, corresponding to a Category 3, 4 or 5 on the Saffir-Simpson Hurricane Wind Scale.

Tropical cyclones forming between 5- and 30-degrees North latitude typically move toward the west. Sometimes the winds in the middle and upper levels of the atmosphere change and steer the cyclone toward the north and northwest. When tropical cyclones reach latitudes near 30 degrees north, they often move northeast."

Locations Affected

Baldwin and Mobile Counties in the region are at the highest risk of hurricanes, due to their location on the Gulf of Mexico. Specifically, the coastal communities within these counties and even more vulnerable. These communities for Baldwin County include Gulf Shores, Orange Beach, Perdido Beach and nearby unincorporated areas. For Mobile County, these communities include, Dauphin Island, Bayou La Batre, Mobile, and the nearby unincorporated areas.

Escambia County is also at risk of hurricanes, but less so than the other regional counties, because it is located inland. However, storms can still be quite severe several hundred miles inland and still cause heavy rains, flooding, high winds and residual tornadoes. Atlantic Hurricane Season occurs between June 1st and November 30th annually.

Extent

Once a tropical system reaches hurricane strength, the Saffir-Simpson scale estimates potential property damage based on a hurricane's sustained wind speed. The scale gives a 1-5 ranking. Hurricanes rated Category 3 and higher are considered major hurricanes. They are associated with significant damage and loss of life. Table 3.13 gives a basic description of the scale.

Table 3.13 Saffir Simpson Hurricane Wind Scale

Category	Sustained Winds	Types of Damage Due to Hurricane Winds
1	74-95 mph 64-82 kt 119-153 km/h	Very dangerous winds will produce some damage: Well- constructed frame homes could have damage to roof, shingles, vinyl siding and gutters. Large branches of trees will snap and shallowly rooted trees may be toppled. Extensive damage to power lines and poles likely will result in power outages that could last a few to several days.
2	96-110 mph 83-95 kt 154-177 km/h	Extremely dangerous winds will cause extensive damage: Well- constructed frame homes could sustain major roof and siding damage. Many shallowly rooted trees will be snapped or uprooted and block numerous roads. Near-to-tal power loss is expected with outages that could last from several days to weeks.
3 (major)	111-129 mph 96-112 kt 178-208 km/h	Devastating damage will occur: Well-built framed homes may incur major damage or removal of roof decking and gable ends. Many trees will be snapped or uprooted, blocking numerous roads. Electricity and water will be unavailable for several days to weeks after the storm passes.
4 (major)	130-156 mph 113-136 kt 209-251 km/h	Catastrophic damage will occur: Well-built framed homes can sustain severe damage with loss of most of the roof structure and/or some exterior walls. Most trees will be snapped or uprooted and power poles downed. Fallen trees and power poles will isolate residential areas. Power outages will last weeks to possibly months. Most of the area will be uninhabitable for weeks or months.
5 (major)	157 mph or higher 137 kt or higher 252 km/h or higher	Catastrophic damage will occur: A high percentage of framed homes will be destroyed, with total roof failure and wall collapse. Fallen trees and power poles will isolate residential areas. Power outages will last for weeks to possibly months. Most of the area will be uninhabitable for weeks or months.

Source: National Hurricane Center http://www.nhc.noaa.gov/aboutsshws.php. Last Accessed: 1/17/20.

Hurricanes as strong as Category 5 have made landfall along the Gulf Coast of Alabama. Baldwin and Mobile, Alabama's only two coastal counties, are extremely vulnerable as they are both located on the Gulf of Mexico. All of the planning area is at risk for high winds, heavy rainfall, and spin off tornadoes associated with tropical systems, but storm surge and flooding are also risks for areas closer to the coast. The impact of these events can range from localized to extensive.

Historical Occurrences

In the planning area, the greatest threat from hurricanes and tropical storms is damage received from high winds, heavy rains, flooding, and spin off tornadoes. Numerous tropical systems have affected the planning area over the last 50 years (see Table 3.14 below).

All three counties within SARPC's region of AEMA Division A have been included in federal disaster declarations for tropical storm and hurricane declarations.

Table 3.14 SARPC Planning Area Tropical Weather Occurrences

Name of Storm	Year	Counties Declared Disaster	Estimated Damage (2017 Dollars)*
Hurricane Camille	1969	Mobile, Baldwin	N/A
Hurricane Frederic	1969	Mobile, Baldwin, Escambia	\$7.7 billion
Hurricane Elena	1985	Mobile, Baldwin	N/A
Hurricane Opal	1995	Mobile, Baldwin, Escambia	N/A
Hurricane Danny	1997	Mobile, Baldwin	\$92.6 million
Hurricane Georges	1998	Mobile, Baldwin, Escambia	\$269 million
Tropical Storm Isidore	2002	Mobile, Baldwin	N/A
Hurricane Ivan	2004	Mobile, Baldwin, Escambia	\$3.26 billion
Hurricane Dennis	2005	Mobile, Baldwin, Escambia	N/A
Hurricane Katrina	2005	Mobile, Baldwin	\$1.25 billion
Hurricane Gustav	2008	Baldwin, Escambia	N/A
Hurricane Ike	2008	Mobile, Baldwin	N/A
Tropical Storm Ida	2009	Mobile, Baldwin	N/A
Hurricane Isaac	2012	Mobile, Baldwin	N/A
Hurricane Nate	2017	Mobile, Baldwin	N/A
Hurricane Michael	2018	Mobile, Baldwin, Escambia	N/A
Hurricane Sally	2020	Mobile, Baldwin, Escambia	N/A
Hurricane Zeta	2020	Mobile	N/A

Source: www.fema.gov and *2018 Alabama Hazard Mitigation Plan

Figure 3.52, below, comes from the State of Alabama Hazard Mitigation Plan and shows the history of hurricanes and wind speed in the state.

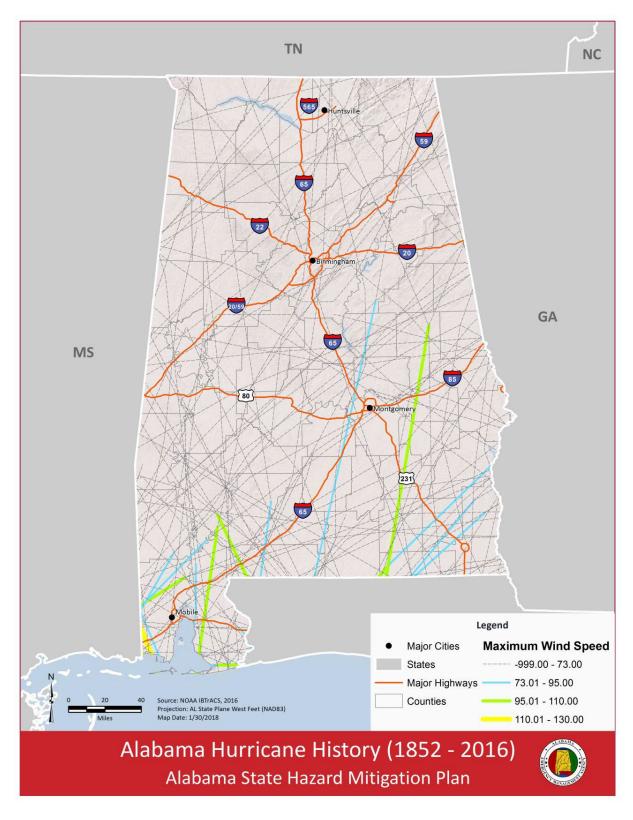


Figure 3.52 History of Hurricanes and Wind Speed in Alabama

Table 3.15 lists the hurricanes that have most impacted the planning region in the last 50 years.

Table 3.15 Hurricane History

DATE	CATEGORY	NAME	NOTES
8/17/1969	5	Camille	The strongest known land-falling hurricane in recorded history. Winds were estimated at 190 mph at landfall.
9/12/1979	3	Frederic	Frederic strengthened from a category one to a category four storm in 30 hours while in the Gulf of Mexico, but weakened before landfall. The sustained winds reached 100 mph at landfall with gusts near 145 mph. Frederic moved inland near Mobile Bay and the Dauphin Island Bridge. The wind resulted in incredible damage to Mobile. Frederic was the first major hurricane to affect Mobile since
9/2/1985	3	Elena	Hurricane Elena, with sustained winds of 124 mph, made landfall on September 2, 1985 near Biloxi, causing extensive damage along the Florida, Mississippi and Alabama coasts. The eye passed 30 miles south of Mobile, battering Gulf Shores and Dauphin Island. Wind gusts were estimated at up to 132 miles per hour on Dauphin Island.
8/3/1995	2	Erin	Hurricane Erin had winds of 100 mph at landfall, and it moved in- land near Pensacola, FL. Hurricane Erin was the first of two local Hurricanes in 1995.
10/4/1995	3	Opal	Hurricane winds were estimated near 115 mph at landfall, and Opal moved inland near Santa Rosa Island, FL. Opal reached category four strength, rapidly intensifying from a category one hurricane in only 18 hours. Hurricane Opal attained category four status 200 miles south of Pensacola.
7/19/1997	1	Danny	Hurricane Danny had wind gusts reaching 80 mph at landfall as it crossed Mullet Point south of Point Clear in Baldwin County.
9/28/1998	2	Georges	Hurricane Georges delivered sustained winds of 130 mph at landfall, and then it moved inland near Biloxi MS.
9/16/2004	3	Ivan	Hurricane Ivan had winds around 120 mph at landfall, and it moved inland near Gulf Shores. Ivan was the strongest Hurricane from Baldwin to Santa Rosa Counties in more than 100 years. 160 miles inland, near Demopolis, AL, a wind gust near 90 mph was
7/10/2005	3	Dennis	Hurricane Dennis carried winds of 121 mph at landfall, as it moved inland near Navarre Beach.
8/29/2005	3	Katrina	Hurricane Katrina had winds at landfall estimated at 120 mph. It moved inland near Waveland MS. Katrina was the costliest and one of the deadliest U.S. disasters.

DATE	CATEGORY	NAME	NOTES
9/01/2008	2	Gustav	Gustav moved erratically through the Greater Antilles into the Gulf of Mexico, eventually making landfall on the coast of Louisiana. It briefly became a category 4 hurricane and caused many deaths and considerable damage in Haiti, Cuba, and Louisiana.
9/13/2008	2	Ike	Ike, with its associated storm surge, caused extensive damage across parts of the northwestern Gulf Coast when it made landfall on September 13, 2008, along the north end of Galveston Island on the Texas coast at the upper end of Category 2 intensity.
11/10/2009	2	Ida	Ida was a late season hurricane that had a large impact on the east coast of Nicaragua and the adjacent islands. It was the first November hurricane in the Gulf of Mexico since Kate of 1985. It made landfall as a tropical storm near Dauphin Island, AL, and quickly
8/28/2012	1	Isaac	Isaac spared Alabama the worst, leading to flooding and storm surge tides in Mobile County. Scattered blackouts occurred with the greatest impact to Dauphin Island where about 2,400 residences were without electricity. Isaac made landfall in Louisiana as a Category
9/16/2020	2	Sally	Sally made landfall in Gulf Shores and produced widespread wind, storm surge, and freshwater flooding across coastal Alabama and the western Florida Panhandle.

Hurricane Sally made landfall in Gulf Shores, AL, at 5am on Wednesday, September 16, as a strong Category 2 hurricane with maximum sustained winds of 105 mph. Sally produced wide-spread wind, storm surge, and freshwater flooding across coastal AL and the western Florida Panhandle. Flood and wind damage also extended well inland into inland southwest Alabama and south-central Alabama.

Sally was an extremely slow-moving hurricane, which prolonged and exacerbated the local impacts. The storm was moving at less than 5 mph at the time of landfall, resulting in a long duration of tropical storm and hurricane force winds, storm surge, and torrential rainfall. Storm surge and resultant damage was widespread and significant from Baldwin County eastward to Okaloosa County.

The highest surge occurred in the bays and sounds of Alabama and the western Florida Panhandle, with generally lower values and lesser impacts on the immediate Gulf facing shores. A peak inundation of 7 to 9 feet above ground level was officially surveyed across some locations in the back bays and sounds of southeast Baldwin County, as well as the northern end of Escambia and Blackwater Bays. A larger area was impacted by 3 to 6 feet of inundation, including along the immediate Gulf facing shores. It should be noted that the extremely heavy rainfall (more details to follow) likely exacerbated the total water levels, although it is difficult to determine the exact extent. Regardless, thousands of structures along coastal areas were flooded by the surge.

Wind damage was extensive across the region, especially in areas that experienced the eyewall of Sally over a several hour duration. Wind damage was most extensive from southeast Mobile County eastward across Baldwin County AL into Escambia County FL. These locations experienced prolonged hurricane conditions with wind gusts over 100 mph, especially close to the immediate coast. Many homes across the area suffered roof damage from the winds and an untold number of homes were damaged by fallen trees. The tree damage was most extensive in Baldwin County, but also significant in parts of Mobile and Escambia Counties which experienced hurricane conditions.

The pecan farms of Baldwin County took a major hit with well over a thousand pecan trees downed throughout the county. The very slow movement of Sally resulted in rainfall totals of 15 to 30 inches across Baldwin County into the western Florida Panhandle. 7 to 15 inches of rain fell across parts of inland southwest Alabama, along and east of Interstate 65, and south-central Alabama. This torrential rain resulted in major river and flash flooding, especially in Baldwin County eastward into the Florida Panhandle. Thousands of water rescues were conducted during the storm due to rapidly rising water and many homes were flooded. Road closures were extensive, especially in Baldwin County east into the western Florida Panhandle and some roads were damaged or washed out. Several rivers reached moderate to major flood stage and some crested within the top 5 of their historical crests.

There were 3 direct fatalities as a result of Sally, one in Alabama. The one Alabama fatality occurred in the Wolf Bay area (Baldwin County, AL.) Two men were riding the storm out on their boat and at some point, during the storm, attempted to swim to shore. One of the men made it to a pier and was rescued and hospitalized; the other man drowned. There were also 3 indirect fatalities, with two occurring in Alabama. The first fatality was due to storm cleanup in the Foley area, and the second was due to carbon monoxide poisoning from improper generator use.

The total reported damage from Public Assistance (PA) and Individual Assistance (IA) is near \$550 million. Note that this does not include insured losses and damages. Also, not all county reports were available or finalized at the time of this publication. A breakdown of costs related to each individual hazard was unavailable. All damages are listed under either the Hurricane or Tropical Storm hazard, but it should be noted that a good portion of the damage was caused by storm surge or flooding even though it is not explicitly listed. Timber loss was extensive. The Alabama Forestry Commission estimates that 2,440 forested acres were damaged with 79,175 tons of timber destroyed at a value of \$1,564,160. Most of this occurred in Baldwin County.

Baldwin County - The county experienced widespread damage as the eye of Sally moved across a large portion of the county after making landfall in Gulf Shores, AL. A large storm surge resulted in widespread inundation and major flood damage to structures along the back bay waters with little to no structural damage to buildings along the Gulf facing beaches. There was a walkway at the Cotton Bayou Gulf access that was damaged. The greatest surge occurred east of Gulf Shores across Orange Beach to the Florida State line and all the way north into the northern portion of Perdido Bay, as well as Wolf Bay. Peak inundation was surveyed to be 7 to 9 feet above ground with a much larger area that experienced 3 to 6 feet of inundation. Surge values neared 10 feet above ground at the far western end of Cotton Bayou in Orange Beach. Numerous large boats were moved onto land by the surge. Almost all piers were destroyed and several marinas were heavily

damaged. The Gulf State Park Pier in Gulf Shores was also majorly damaged with a large section of the pier now missing. The 20 to 30 inches of rain that fell across the southern part of the county certainly compounded the storm surge flooding and also resulted in widespread flash flooding and river flooding. The Fish and Styx Rivers reached major flood stage and experienced their third and second highest crests respectively. The eyewall of Sally resulted in widespread and extensive damage to trees and power lines. Most of southern Baldwin County experienced sustained hurricane force winds of 75 to 85 mph with gusts over 100 mph. A sailboat anchored in Ingram Bayou measured a 1-minute sustained wind of 113 mph with a gust to 137 mph. These measurements were recorded at an elevated 58 feet. When reduced to the standard measuring height 33 feet, the sustained wind is estimated to have been 104 mph with a gust to 126 mph. The Center of Severe Weather Research recorded a 123-mph gust on the east side of the Perdido Pass bridge from an anemometer on their mobile doppler radar unit with sustained winds of 93 mph. Numerous structures were damaged by fallen trees and many structures in the county suffered significant roof and siding damage. In Ft. Morgan, a few older homes were destroyed and a boat storage facility at a marina suffered major damage. Almost all of the county lost power during the storm due to substantial damage to the power infrastructure. The pecan farming industry took a devastating hit as likely over a thousand pecan trees were destroyed across the county. There were three fatalities from the storm, one direct and two indirect. A person drowned in Orange Beach during the storm. Another fatality occurred in Foley during the post storm clean up and another individual died due to carbon monoxide poisoning from a generator.

Escambia County - Widespread trees were downed throughout Escambia County, AL. Some of the trees fell onto homes, but most of the damage was minor. However, 4 homes suffered major damage from the fallen trees. At the peak of the event, 85% of the county was without power. Torrential rainfall of 10 to 20 inches led to flash flooding and river flooding, resulting in the 10 county roads becoming impassable during the storm. Some of the roads suffered wash outs. A couple of bridges experienced wash outs as well.

Mobile County - The greatest impact of Sally in Mobile County was to Dauphin Island, which was impacted by the western eyewall of Sally for a long duration. Hurricane force winds with gusts over 100 mph were recorded on the island. Winds were out of the north, which resulted in the bay and sound side of the island being the most impacted. Several buildings experienced roof and siding damage, including to two buildings on the campus of the Dauphin Island Sea Lab. Another home on the island lost its roof entirely. A 3-to-4-foot storm surge on the north side of the island resulted in major damage to docks and piers, including at the Dauphin Island marina. Across mainland Mobile County, the southern and central portions of the county experienced a long duration of sustained tropical storm force winds with hurricane force wind gusts recorded all the way west at the Mobile Regional Airport. In fact, the 82-mph gust recorded at the airport was almost as high as the peak gust recorded in Hurricane Katrina of 83 mph. Numerous trees and power lines were downed across the county, especially in central and southern parts of the county. This resulted in widespread power outages. Mobile's Bienville Square suffered major damage to the numerous oaks in the area and there was minor damage reported at some businesses in downtown Mobile. Several homes in the county also experienced roof, siding, and fence damage. Downed trees also damaged some homes.

Probability of Future Events

The probability of future hurricane events directly affecting the planning area is High. As discussed earlier, Division A is more susceptible to high winds, heavy rainfall, flooding and spin off tornadoes associated with direct hits by tropical systems as well as when a system moves inland.

From the 2018 State of Alabama Hazard Mitigation Plan, "hurricane hazards are generally expected to increase through the twenty-first century. The measures of hurricane activity include intensity, frequency, and duration. Since high-quality satellite data first became available in the early 1980s, scientists have observed a substantial increase in all of these measures of hurricane activity for North Atlantic hurricanes, as well as an increase in the frequency of the strongest (Category 4 and 5) hurricanes.80 Although simulations of future hurricane activity span a range of possible outcomes, on average the models project an increase in the annual number of Category 4 and 5 hurricanes by the late twenty-first century, as well as a slight decrease in the number of tropical cyclones. 81 Changes in the storm tracks of North Atlantic hurricanes are less well understood. The storm tracks of North Atlantic hurricanes are shaped by both atmospheric dynamics and ocean circulation, and projected changes in ocean circulation remain poorly constrained."

PAGE INTENTIONALLY LEFT BLANK.

3.2.6. High Winds (Tornados)

Background

The National Severe Storms Laboratory of the National Oceanic and Atmospheric Administration defines a tornado as "a violently rotating column of air in contact with the ground and extending from the base of a thunderstorm" (NSSL-NOAA 2021). The occurrence of tornadoes cannot be predicted, but past occurrences and basic weather patterns can be used to identify areas more susceptible. The National Weather Service defines a tornado as, "a violently rotating column of air in contact with the ground and extending from the base of a thunderstorm" (www.srh.noaa.gov/). The occurrence of tornadoes cannot be predicted, but past occurrences and basic weather patterns can be used to identify areas more susceptible.

Extent

Table 3.16 shows the Fujita-Pearson scale. The scale gives wind speeds and general damage descriptions. The original F scale uses damage caused by a tornado and relates the damage to the fastest 1/4-mile wind at the height of a damaged structure. The EF or Enhanced Fujita scale is an update to the original F-scale by a team of meteorologists and wind engineers. It was implemented in the U.S. in February 2007. It uses three-second gusts estimated at the point of damage based on a judgment of 8 levels of damage to 28 indicators.

Table 3.16 Fujita- Pearson Tornado Scale

FUJITA SCALE			DERIVI SCA		OPERATIONAL EF SCALE		
F Number	Fastest 1/4-mile (mph)	3 Second Gust (mph)	EF Number	3 Second Gust (mph)	EF Num- ber	3 Second Gust (mph)	
0	40-72	45-78	0	65-85	0	65-85	
1	73-112	79-117	1	86-109	1	86-110	
2	113-157	118-161	2	110-137	2	111-135	
3	158-207	162-209	3	138-167	3	136-165	
4	208-260	210-261	4	168-199	4	166-200	
5	261-318	262-317	5	200-234	5	Over 200	

Source: National Oceanic and Atmospheric Administration

The percentage of historic occurrences in the planning area since based on Fujita Scale classifications is provided in Table 3.17.

Table 3.17 Historic Occurrences by Scale Classification*

Tornado Scale Classification	Number	Percentage of Historical Oc-
		currences
F0/EF0	63	63%
F1/EF1	28	27%
F2/EF2	9	9%
F3/EF3	2	2%
F4/EF4	0	0%
F5/EF5	0	0%

Source: National Weather Service. *Since 1995.

It can be seen that the Division has experienced tornadic events primary classified as F0, F1, and F2. While Stronger EF3, EF4 and EF5 events have rarely occurred, there is still a small possibility they could occur.

Locations Affected

All the planning area is susceptible to tornadoes. Tornadoes have affected locations throughout the planning area. Tornadoes can occur throughout the year; however, the most likely time for occurrence is spring and fall. The spring tornado season in Alabama is March through May. There is a secondary season from November to December.

Historical Occurrences

According to NOAA and NWS records, 102 tornadoes have occurred in the planning region since 2015. Fortunately, these storms have resulted in only 1 fatality and 16 injuries. However, property damage is estimate at close to \$13,000,000.

Table 3.18 provides a summary of tornado occurrences in the planning area from 2015-2020.

Table 3.18 Division A Tornado Occurrences 2015-2020

County	Location	Date	Mag- nitude	Deaths	Injuries	Property Damage	Crop Damage	Ending Location
BALDWIN CO.	Loxley	4/22/1995	F0	0	0	0	0	
ESCAMBIA CO.	Atmore	4/23/1995	F0	0	0	0	0	
MOBILE CO.	Mobile	5/9/1995	F0	0	0	2000	0	
MOBILE CO.	Grand Bay	5/10/1995	F0	0	0	0	0	

County	Location	Date	Mag- nitude	Deaths	Injuries	Property Damage	Crop Damage	Ending Location
ESCAMBIA	East	10/4/1995	F0	0	0	25000	0	Location
CO.								
MOBILE	GULF	1/26/1996	F1	1	3	100000	0	GULF
CO.	CREST							CREST
BALDWIN	ORANGE	7/18/1997	F0	0	0	20000	0	OR-
CO.	BEACH							ANGE
MOBILE	WILMER	10/25/1997	F0	0	0	15000	0	BEACH WILMER
CO.	WILNER	10/23/1997	го	0	U	13000	U	WILNER
MOBILE	SARALAND	11/21/1997	F3	0	0	2000000	0	SARA-
CO.	Si Hei Hei H (B	11/21/1997				2000000		LAND
BALDWIN	GULF SHRS	9/19/1998	F0	0	0	0	0	GULF
CO.								SHRS
BALDWIN	LOXLEY	9/27/1998	F0	0	0	3000	0	LOXLEY
CO.								
BALDWIN	SUM-	2/23/1999	F0	0	0	10000	0	SUM-
CO.	MERDALE							MERDA
								LE
BALDWIN	FT MOR-	5/29/1999	F0	0	0	10000	0	FT MOR-
CO.	GAN	5/21/1000	EO		0	0		GAN
BALDWIN	GULF SHRS	5/31/1999	F0	0	0	0	0	GULF SHRS
CO. BALDWIN	POINT	7/12/1999	F0	0	0	0	0	POINT
CO.	CLEAR	//12/1999	го	0	U	0	U	CLEAR
MOBILE	MOBILE	10/9/1999	F0	0	0	40000	0	MOBILE
CO.	WIODIEE	10/5/1555				10000	Ü	WODIEE
MOBILE	SARALAND	10/9/1999	F1	0	0	100000	0	SARA-
CO.								LAND
MOBILE	MOBILE	4/24/2000	F1	0	0	200000	0	MOBILE
CO.								
MOBILE	IRVINGTON	11/6/2000	F2	0	2	100000	0	IRVING-
CO.				_				TON
BALDWIN	FOLEY	11/8/2000	F1	0	0	150000	0	FOLEY
CO.	EAIDHODE	11/0/2000	EO	0	0	10000		EAID
BALDWIN CO.	FAIRHOPE	11/8/2000	F0	0	0	10000	0	FAIR- HOPE
BALDWIN	FAIRHOPE	11/8/2000	F1	0	0	200000	0	FAIR-
CO.	TAIRTOIL	11/6/2000	1 1	0	U	200000		HOPE
BALDWIN	ELSANOR	11/8/2000	F0	0	0	0	0	EL-
CO.								SANOR
MOBILE	(MOB)MO-	11/24/2000	F0	0	0	10000	0	(MOB)M
CO.	BILE							OBILE
	BATES FL							BATES
								FL
MOBILE	(MOB)MO-	6/11/2001	F0	0	0	20000	0	(MOB)M
CO.	BILE							OBILE
	BATES FL							BATES
		<u> </u>						FL

County	Location	Date	Mag-	Deaths	Injuries	Property	Crop	Ending
			nitude			Damage	Damage	Location
BALDWIN CO.	FAIRHOPE	10/13/2001	F1	0	0	50000	0	FAIR- HOPE
BALDWIN CO.	MONTROSE	10/13/2001	F0	0	0	10000	0	MONT- ROSE
BALDWIN CO.	GULF SHRS	10/13/2001	F0	0	0	20000	0	GULF SHRS
BALDWIN CO.	FOLEY	10/13/2001	F3	0	0	250000	0	FOLEY
BALDWIN CO.	FOLEY	10/13/2001	F0	0	0	15000	0	FOLEY
BALDWIN CO.	ROB- ERTSDALE	10/13/2001	F2	0	0	200000	0	ROB- ERTSDA LE
BALDWIN CO.	SPANISH FT	10/13/2001	F0	0	0	25000	0	SPAN- ISH FT
ESCAMBIA CO.	BREWTON	11/24/2001	F0	0	0	25000	0	BREWT ON
MOBILE CO.	THEODORE	9/14/2002	F0	0	0	8000	0	THEO- DORE
MOBILE CO.	MOBILE BATES FLD	9/22/2002	F0	0	0	1000	0	MOBILE BATES FLD
BALDWIN CO.	GULF SHRS	9/25/2002	F0	0	0	25000	0	GULF SHRS
BALDWIN CO.	GULF SHRS	9/25/2002	F0	0	0	15000	0	GULF SHRS
MOBILE CO.	SEMMES	9/26/2002	F0	0	0	5000	0	SEMMES
BALDWIN CO.	BARNWELL	11/5/2002	F0	0	0	10000	0	BARN- WELL
ESCAMBIA CO.	WALLACE	2/21/2003	F0	0	0	8000	0	WAL- LACE
MOBILE CO.	MOBILE	8/29/2003	F0	0	0	0	0	MOBILE
MOBILE CO.	DAUPHIN IS	6/25/2004	F0	0	0	0	0	DAU- PHIN IS
BALDWIN CO.	JOSEPHINE	9/15/2004	F0	0	0	3000	0	JOSE- PHINE
ESCAMBIA CO.	DIXIE	9/15/2004	F0	0	0	3000	0	DIXIE
BALDWIN CO.	FAIRHOPE	11/24/2004	F0	0	0	0	0	FAIR- HOPE
MOBILE CO.	MON LOUIS	11/24/2004	F0	0	0	5000	0	MON LOUIS
BALDWIN CO.	SUM- MERDALE	11/27/2004	F2	0	4	400000	0	SUM- MERDA LE

County	Location	Date	Mag- nitude	Deaths	Injuries	Property Damage	Crop Damage	Ending Location
BALDWIN	ROB-	11/27/2004	F0	0	0	15000	0	ROB-
CO.	ERTSDALE							ERTSDA
								LE
BALDWIN	ELSANOR	11/27/2004	F0	0	0	30000	0	EL-
CO.								SANOR
BALDWIN	SEMINOLE	11/27/2004	F1	0	0	200000	0	SEMI-
CO.								NOLE
ESCAMBIA	ATMORE	7/6/2005	F0	0	0	5000	0	AT-
CO.	271 (1 (7)2	- 15 12 0 0 Z	7.0			70000		MORE
MOBILE	SEMMES	7/6/2005	F0	0	0	50000	0	SEMMES
CO.	CHIDI	7/6/2005	T-0		0	20000	^	CHIDI
MOBILE	CHUN-	7/6/2005	F0	0	0	20000	0	CHUN-
CO. BALDWIN	CHULA	8/28/2005	EO	0	0	4000	0	CHULA
	FT MOR- GAN	8/28/2005	F0	0	0	4000	0	FT MOR- GAN
CO. MOBILE	SEMMES	8/28/2005	F0	0	0	5000	0	SEMMES
CO.	SEIVIIVIES	8/28/2003	го	U	U	3000	0	SEMIMES
MOBILE	ALABAMA	8/28/2005	F0	0	0	5000	0	ALA-
CO.	PORT	0/20/2003	10		0	3000	U	BAMA
	TORT							PORT
ESCAMBIA	HUXFORD	8/29/2005	F0	0	0	5000	0	HUX-
CO.	110111 0112	0.23.2000						FORD
BALDWIN	RABUN	11/15/2006	F0	0	0	50000	0	RABUN
CO.								
BALDWIN	DYAS	11/15/2006	F1	0	0	100000	0	DYAS
CO.								
MOBILE	DAUPHIN	10/22/2007	EF0	0	0	0	0	DAU-
CO.	IS							PHIN IS
MOBILE	BAYOU LA	10/22/2007	EF1	0	0	750000	0	BAYOU
CO.	BATRE							LA BA-
	ARPT							TRE
EGGANDIA	D + D I/ED	2/17/2000	EEO		0	700000	^	ARPT
ESCAMBIA	PARKER	2/17/2008	EF2	0	0	700000	0	DIXIE
CO. MOBILE	SPGS DAUPHIN	9/19/2009	EF0	0	0	5000	0	DAU-
CO.	IS	8/18/2008	EFU	0	0	3000	U	PHIN IS
BALDWIN	ELBERTA	9/1/2008	EF0	0	0	20000	0	EL-
CO.	ELDEKTA	9/1/2008	LITO		0	20000	U	BERTA
ESCAMBIA	APPLETON	3/26/2009	EF1	0	0	30000	0	APPLE-
CO.	ATTLLION	3,20,2007	1211			30000		TON
BALDWIN	ELSANOR	10/24/2010	EF1	0	0	45000	0	EL-
CO.		10.2.72010					Ĭ	SANOR
MOBILE	COTTAGE	10/25/2010	EF1	0	0	0	0	COT-
CO.	HILL							TAGE
								HILL
BALDWIN	SILVER-	3/9/2011	EF2	0	0	0	0	SILVER-
CO.	HILL							HILL

County	Location	Date	Mag- nitude	Deaths	Injuries	Property Damage	Crop Damage	Ending Location
MOBILE	GRAND	3/9/2011	EF1	0	0	0	0	GRAND
CO.	BAY							BAY
MOBILE	THEODORE	3/9/2011	EF2	0	4	0	0	THEO-
CO.								DORE
ESCAMBIA	WALLACE	4/15/2011	EF1	0	0	100000	0	KIRK-
CO.								LAND
ESCAMBIA CO.	BOYKIN	4/15/2011	EF2	0	0	2600000	0	DIXIE
MOBILE	CITRON-	4/15/2011	EF0	0	0	30000	0	CITRON-
CO.	ELLE							ELLE
MOBILE	DAUPHIN	9/3/2011	EF0	0	0	0	0	DAU-
CO.	IS							PHIN IS
BALDWIN	LILLIAN	9/4/2011	EF1	0	0	200000	0	LILLIAN
CO.								
MOBILE	MON LOUIS	9/4/2011	EF1	0	0	45000	0	SOUTH
CO.								OR-
								CHARD
MOBILE	COTTAGE	12/20/2012	EF1	0	0	0	0	MAGA-
CO.	HILL							ZINE
MOBILE	MERTZ	12/25/2012	EF2	0	0	1350000	0	MAGA-
CO.								ZINE
MOBILE	PIERCIE	12/25/2012	EF1	0	0	0	0	WILMER
CO.								
MOBILE	LAU-	4/11/2013	EF1	0	0	1500000	0	BELLE-
CO.	RENDINE							FON-
								TAINE
ESCAMBIA	WAHL	2/15/2016	EF2	0	0	750000	0	POL-
CO.								LARD
ESCAMBIA	BRADLEY	3/3/2016	EF1	0	0	15000	0	BRAD-
CO.								LEY
BALDWIN	SUM-	6/21/2017	EF0	0	0	0	0	SUM-
CO.	MERDALE							MERDA
								LE
ESCAMBIA	PARKER	6/21/2017	EF0	0	0	0	0	PARKER
CO.	SPGS							SPGS
BALDWIN	GULF SHRS	10/7/2017	EF0	0	0	0	0	GULF
CO.								SHRS
BALDWIN	ORANGE	10/7/2017	EF0	0	0	5000	0	OR-
CO.	BEACH							ANGE
								BEACH
MOBILE	(MOB)MO-	10/7/2017	EF0	0	0	50000	0	(MOB)M
CO.	BILE							OBILÉ
	BATES FL							BATES
								FL
BALDWIN	GASQUE	4/22/2018	EF0	0	0	25000	0	GASQUE
CO.								
BALDWIN	OAK	4/22/2018	EF0	0	3	100000	0	FOLEY
CO.								

County	Location	Date	Mag-	Deaths	Injuries	Property	Crop	Ending
BALDWIN	ELBERTA	4/22/2018	nitude EF0	0	0	Damage 25000	Damage 0	Location EL-
CO.	ELBERTA	4/22/2018	EFU	0	0	23000	U	BERTA
MOBILE	CHICKA-	6/7/2019	EF0	0	0	25000	0	CHICK-
CO.	SAW	0/ //2019	EFU	U	U	23000	0	ASAW
MOBILE	DAWES	10/25/2019	EF1	0	0	0	0	SEVEN
CO.	DAWES	10/23/2019	EFI	0	U	U	U	HILLS
MOBILE	SEVEN	10/25/2019	EF0	0	0	0	0	SEVEN
CO.	HILLS	10/23/2019	LIO	0	0	U	U	HILLS
MOBILE	SEMMES	10/25/2019	EF1	0	0	0	0	GEORGE
CO.	SEMMES	10/23/2019						TOWN
MOBILE	PRICHARD	11/7/2019	EF0	0	0	0	0	PRICH-
CO.		11, ,, 2019	LIV					ARD
BALDWIN	TAYLORS	4/19/2020	EF1	0	0	0	0	TAY-
CO.	CAMP							LORS
								CAMP
MOBILE	TANNER	4/19/2020	EF1	0	0	0	0	DAWES
CO.	WILLIAMS							
MOBILE	THEODORE	4/19/2020	EF1	0	0	0	0	THEO-
CO.	IDLE HOUR							DORE
	A							IDLE
								HOUR A
MOBILE	(MOB) MO-	4/19/2020	EF1	0	0	0	0	COT-
CO.	BILE							TAGE
	BATES FL	1/22/2020						HILL
MOBILE	GULF	4/23/2020	EF1	0	0	0	0	GULF
CO.	CREST	6/24/2020	EEO	0	0		0	CREST
MOBILE	ORCHARD	6/24/2020	EF0	0	0	0	0	OR-
CO. MOBILE	GULF	6/24/2020	EF1	0	0	0	0	CHARD BUCKS
CO.	CREST	0/24/2020	CF I	U	U	U	U	DUCKS
MOBILE	IRVINGTON	10/10/2020	EF0	0	0	0	0	IRVING-
CO.	IKVINGTON	10/10/2020	EFU	U	U	U	U	TON
TOTALS				1	16	\$12,952,000		TON
	Craw Francis Dark			1	10	φ12,732,000		

Source: NOAA Storm Events Database

Probability of Future Events

Since 1950, AEMA Division A has experienced tornadoes almost every year. Based on historic data, the annual probability for tornadoes is High.

PAGE INTENTIONALLY LEFT BLANK.

3.2.7. High Winds/Severe Thunderstorms (Hail/Lightning)

Thunderstorms, lightning, hail, and high winds will all be grouped into the category of severe storms in this analysis.

Background

Thunderstorms

A thunderstorm is a rainstorm accompanied by lightning and thunder. According to the National Weather Service there are four types of thunderstorms:

- Ordinary Cell: A single cell consisting of a onetime updraft and one-time downdraft. They are short lived and typically not severe.
- **Multi-cell Cluster:** Thunderstorms that form in clusters with numerous cells in various stages of development merging together.
- Multi-cell Line: Thunderstorms which form in a line which can extend laterally for hundreds of miles. Also known as "squall lines", they can persist for many hours and produce damaging winds and hail. Tornadoes may form on the leading edge of squall lines, but they primarily produce "straight line" winds. Derechos are long-lived strong squall lines that can travel hundreds of miles and can produce considerable wind and hail damage.
- **Supercell:** Highly organized storms characterized by updrafts that can attain speeds over 100 mph. They are able to produce large hail and strong, violent tornadoes that can produce damaging outflow in excess of 100 mph.

High Winds

High winds are defined as winds 40 mph or greater lasting for an hour or longer, or winds of 58 mph or greater for any duration. High winds can lead to property damage and interruption in utility services. Trees may fall into homes and structures. Varying degrees of damage may occur depending on the structure and size of the tree. Persons in these structures are at risk of death and injury. Trees can fall across power lines leading to outages that can last several days.

Hail

Hail is precipitation in the form of irregular pellets or balls of ice more than 5 mm in diameter. Hail forms when thunderstorm updrafts are strong enough to carry water droplets well above the freezing level. This freezing process forms a hailstone, which can grow as additional water freezes onto it. Eventually, the hailstone becomes too heavy for the updrafts to support it and it falls to the ground.

Lightning

"Lightning is a rapid discharge of electrical energy in the atmosphere. The resulting clap of thunder is the result of a shock wave created by the rapid heating and cooling of the air in the lightning

channel. (http://www.lightningsafety.noaa.gov/resources/lightning3_050714.pdf)". During thunderstorms, winds within the storms cause collisions between various precipitation particles in the storm cloud. These collisions lead to very small ice crystals losing electrons and larger hail particles gaining electrons. Winds redistribute these causing a negative charge buildup near the middle and lower part of the storm and a positive buildup on the ground beneath the storm cloud. The charge difference eventually increases, and the negative charge starts moving toward the ground. Its movement creates a conductive path toward the ground. When the negative charge from the cloud makes contact with the positive charge on the ground, current surges, creating a visible flash of lightning.

Lightning is a very dangerous hazard. Lightning is responsible for deaths every year in the state. People often believe they are not at risk and stay outside when lightning is near. A lightning strike can lead to death or serious injury. Lightning can strike homes and trees leading to property damage. Lightning strikes can also cause a disruption in utility services.

Locations Affected

The entire planning area is susceptible to the occurrence of severe thunderstorms. These events are assumed to be able to potentially affect any location due to their nature.

Extent

Severe thunderstorms are defined by the National Weather service as having winds of 58mph (50 knots) or higher. Severe thunderstorms with straight line winds, which occur throughout various locations in the planning area, have the potential to ignite wind gusts that are comparable to an EF1 tornado. It is difficult to predict the extent of damage and area will undergo due to the unpredictable nature of severe thunderstorms and the random impact of lightning and hail production.

Historical Occurrences

From 1995-2019, 600 Thunderstorms have occurred in the region, and of those with recorded knots, 549 were considered severe (50 knots or greater). Total property damage from these 600 storms exceeds \$11,000,000. During the same time period, there were 326 hail and 104 lightning occurrences in the region. Only 19 of the hail occurrences caused any monetary damage, but the monetary value of property damage from lightning was over \$4,000,000 and resulted in 11 deaths. These severe weather events have occurred in all three counties of the planning area. Tables 3.19-3.21 provide past occurrence data for the 2014-2020 timeframe for severe thunderstorms, hail, and lightning.

Table 3.19 Division A Severe Thunderstorm Occurrences 2014-2019

County	Location	Date	Magnitude (Knots)	Deaths	Injuries	Property Damage	Crop Damage
BALDWIN CO.	Fairhope	01/06/95	0	0	0	\$5,000	\$0
BALDWIN CO.	Robertsdale	01/06/95	0	0	0	\$500	\$0
BALDWIN CO.	Central	01/06/95	0	0	0	\$50,000	\$0
BALDWIN CO.	Barnwell	02/03/95	0	0	0	\$5,000	\$0
ESCAMBIA CO.	McCullough	02/03/95	0	0	0	\$5,000	\$0
ESCAMBIA CO.	Atmore	02/03/95	0	0	0	\$500	\$0
MOBILE CO.	Mobile	02/03/95	0	0	0	\$500	\$0
BALDWIN CO.	Stockton	04/21/95	0	0	0	\$1,000	\$0
MOBILE CO.	Citronelle	04/21/95	0	0	0	\$500	\$0
BALDWIN CO.	Hurricane	04/23/95	0	0	0	\$1,000	\$0
BALDWIN CO.	Stockton and	05/09/95	0	0	0	\$500	\$0
ESCAMBIA CO.	Atmore	05/09/95	0	0	0	\$70,000	\$0
MOBILE CO.	Kushla	05/09/95	0	0	0	\$500	\$0
BALDWIN CO.	Fairhope	05/10/95	0	0	0	\$1,000	\$0
ESCAMBIA CO.	Central and East port	05/10/95	0	0	0	\$30,000	\$0
BALDWIN CO.	Foley	05/11/95	0	0	0	\$1,000	\$0
BALDWIN CO.	Seminole	05/11/95	0	0	0	\$500	\$0
MOBILE CO.	Citronelle	06/01/95	0	0	0	\$2,000	\$0
MOBILE CO.	Dauphin Island	06/01/95	0	0	0	\$500	\$0
BALDWIN CO.	Silverhill	07/08/95	0	0	0	\$500	\$0
ESCAMBIA CO.	Atmore	07/08/95	0	0	0	\$1,000	\$0
MOBILE CO.	Citronelle	07/08/95	0	0	0	\$1,500	\$0
MOBILE CO.	Semmes	07/08/95	0	0	0	\$1,000	\$0
MOBILE CO.	Mobile	07/08/95	0	0	0	\$2,000	\$0
BALDWIN CO.	Stockton	07/09/95	0	0	0	\$1,000	\$0
BALDWIN CO.	Orange Beach	07/09/95	0	0	0	\$500	\$0

County	Location	Date	Magnitude (Knots)	Deaths	Injuries	Property Damage	Crop Damage
MOBILE CO.	Mt. Vernon	07/09/95	0	0	0	\$1,000	\$0
BALDWIN CO.	Fairhope/Silver-hill/F	07/10/95	0	0	0	\$4,000	\$0
BALDWIN CO.	Mobile Bay	07/12/95	0	0	0	\$1,500	\$0
BALDWIN CO.	Foley	07/12/95	0	0	0	\$500	\$0
MOBILE CO.	Mobile	07/12/95	0	0	0	\$0	\$0
MOBILE CO.	Mobile	07/13/95	0	0	0	\$1,000	\$0
ESCAMBIA CO.	Brewton	07/18/95	0	0	0	\$1,000	\$0
ESCAMBIA CO.	Flomaton	07/18/95	0	0	0	\$3,000	\$0
MOBILE CO.	Wilmer	07/26/95	0	0	0	\$1,000	\$0
BALDWIN CO.	Daphne	08/16/95	0	0	0	\$2,000	\$0
MOBILE CO.	Mobile	08/16/95	0	0	0	\$0	\$0
MOBILE CO.	Butler	08/20/95	0	0	0	\$50,000	\$0
MOBILE CO.	Mobile	09/17/95	0	0	0	\$3,000	\$0
ESCAMBIA CO.	Atmore	10/04/95	0	0	0	\$5,000	\$0
MOBILE CO.	Mobile	12/17/95	0	0	0	\$0	\$0
BALDWIN CO.	Robertsdale	12/18/95	0	0	0	\$2,000	\$0
BALDWIN CO.	Gulf Shores	12/18/95	0	0	0	\$20,000	\$0
MOBILE CO.	Citronelle	12/18/95	0	0	0	\$2,000	\$0
BALDWIN CO.	LATHAM	01/26/96	50	0	0	\$2,000	\$0
BALDWIN CO.	TENSAW	01/26/96	50	0	0	\$2,000	\$0
MOBILE CO.	CREOLA	01/26/96	88	0	0	\$5,000	\$0
MOBILE CO.	MT VERNON	01/26/96	50	0	0	\$2,000	\$0
MOBILE CO.	MOBILE	02/19/96	60	0	0	\$25,000	\$0
BALDWIN CO.	BAY MINETTE	03/07/96	45	0	1	\$1,500	\$0
BALDWIN CO.	STOCKTON	05/24/96	55	0	0	\$500	\$0
ESCAMBIA CO.	ATMORE	05/24/96	60	0	0	\$7,500	\$0
MOBILE CO.	GEORGETOWN	07/09/96	55	0	0	\$2,000	\$0
ESCAMBIA CO.	WALLACE	07/28/96	55	0	0	\$2,000	\$0
BALDWIN CO.	LOXLEY	08/12/96	40	0	0	\$500	\$0

County	Location	Date	Magnitude (Knots)	Deaths	Injuries	Property Damage	Crop Damage
BALDWIN CO.	SUMMERDALE	08/24/96	45	0	0	\$90,000	\$0
BALDWIN CO.	BAY MINETTE	08/25/96	50	0	0	\$2,500	\$0
MOBILE CO.	CITRONELLE	09/08/96	50	0	0	\$1,500	\$0
BALDWIN CO.	SUMMERDALE	09/21/96	50	0	0	\$2,500	\$0
MOBILE CO.	MOBILE BATES FLD	09/21/96	50	0	0	\$2,500	\$0
BALDWIN CO.	ORANGE BEACH	11/05/96	40	0	0	\$500	\$0
ESCAMBIA CO.	BREWTON	12/16/96	50	0	0	\$1,500	\$0
BALDWIN CO.	MAGNOLIA SPGS	01/15/97	52	0	0	\$500	\$0
BALDWIN CO.	BLACKSHER	01/24/97	50	0	0	\$1,500	\$0
BALDWIN CO.	MALBIS	01/24/97	55	0	1	\$15,000	\$0
ESCAMBIA CO.	ATMORE	01/24/97	50	0	0	\$1,500	\$0
ESCAMBIA CO.	MC CULLOUGH	01/24/97	50	0	0	\$1,500	\$0
MOBILE CO.	CITRONELLE	01/24/97	50	0	0	\$1,500	\$0
MOBILE CO.	TILLMANS CORNER	01/24/97	50	0	0	\$10,000	\$0
MOBILE CO.	CITRONELLE	01/28/97	50	0	0	\$1,500	\$0
MOBILE CO.	THEODORE	02/21/97	60	0	0	\$5,000	\$0
MOBILE CO.	CITRONELLE	04/05/97	50	0	0	\$1,500	\$0
MOBILE CO.	BAYOU LA BATRE	04/05/97	50	0	0	\$2,000	\$0
BALDWIN CO.	FT MORGAN	04/11/97	50	0	0	\$0	\$0
ESCAMBIA CO.	ATMORE	04/22/97	50	0	0	\$500	\$0
MOBILE CO.	CREOLA	05/19/97	45	0	0	\$5,000	\$0
MOBILE CO.	MOBILE BATES ELD	05/28/97	50	0	0	\$1,500	\$0
BALDWIN CO.	BATES FLD STOCKTON	06/20/97	50	0	0	\$1,500	\$0
MOBILE CO.	CITRONELLE	06/20/97	50	0	0	\$1,000	\$0
MOBILE CO.	COTTAGE HILL	07/05/97	50	0	0	\$3,000	\$0
BALDWIN CO.	FAIRHOPE	07/11/97	50	0	0	\$3,000	\$0
MOBILE CO.	ALABAMA PORT	07/18/97	55	0	0	\$3,000	\$0

County	Location	Date	Magnitude (Knots)	Deaths	Injuries	Property Damage	Crop Damage
BALDWIN CO.	LOXLEY	08/20/97	50	0	0	\$5,000	\$0
MOBILE CO.	THEODORE	08/20/97	50	0	0	\$5,000	\$0
MOBILE CO.	GEORGETOWN	10/25/97	60	0	0	\$3,000	\$0
MOBILE CO.	AXIS	10/25/97	60	0	0	\$2,500	\$0
ESCAMBIA CO.	ROBINSON- VILLE	11/21/97	70	0	0	\$25,000	\$0
ESCAMBIA CO.	LITTLE ROCK	11/21/97	70	0	0	\$35,000	\$0
ESCAMBIA CO.	DIXONVILLE	11/21/97	80	0	0	\$40,000	\$0
MOBILE CO.	SEMMES	12/24/97	50	0	0	\$1,500	\$0
BALDWIN CO.	WHITEHOUSE FORKS	01/07/98	70	0	0	\$25,000	\$0
BALDWIN CO.	GULF SHRS	01/07/98	50	0	0	\$25,000	\$0
BALDWIN CO.	SEMINOLE	01/07/98	50	0	0	\$3,000	\$0
ESCAMBIA CO.	BREWTON	01/07/98	50	0	0	\$3,000	\$0
ESCAMBIA CO.	BREWTON	01/07/98	50	0	0	\$3,000	\$0
MOBILE CO.	MOBILE	01/07/98	50	0	0	\$3,000	\$0
MOBILE CO.	MOBILE BATES FLD	01/07/98	50	0	0	\$3,500	\$0
BALDWIN CO.	ELSANOR	01/22/98	50	0	0	\$3,000	\$0
BALDWIN CO.	MAGNOLIA SPGS	01/22/98	50	0	0	\$3,000	\$0
ESCAMBIA CO.	BREWTON	01/22/98	50	0	0	\$3,000	\$0
MOBILE CO.	SEMMES	01/22/98	50	0	0	\$3,000	\$0
BALDWIN CO.	SPANISH FT	02/11/98	55	0	0	\$12,000	\$0
MOBILE CO.	DAUPHIN IS	03/07/98	50	0	0	\$2,000	\$0
BALDWIN CO.	COUNTYWIDE	06/05/98	60	0	0	\$100,000	\$0
ESCAMBIA CO.	COUNTYWIDE	06/05/98	60	0	0	\$50,000	\$0
MOBILE CO.	COUNTYWIDE	06/05/98	60	0	0	\$200,000	\$0
BALDWIN CO.	SEMINOLE	07/05/98	50	0	0	\$3,000	\$0
ESCAMBIA CO.	HUXFORD	07/05/98	50	0	0	\$3,000	\$0
BALDWIN CO.	PERDIDO	07/26/98	50	0	0	\$5,000	\$0

County	Location	Date	Magnitude (Knots)	Deaths	Injuries	Property Damage	Crop Damage
ESCAMBIA	NOKOMIS	07/26/98	50	0	0	\$5,000	\$0
CO.	1,01101,110	0772075				42,000	40
BALDWIN	ORANGE	09/28/98	50	0	0	\$20,000	\$0
CO.	BEACH						
BALDWIN	BAY MINETTE	01/02/99	55	0	0	\$3,000	\$0
CO.							
BALDWIN CO.	LILLIAN	01/02/99	55	0	0	\$5,000	\$0
ESCAMBIA	MC	01/02/99	50	0	0	\$5,000	\$0
CO.	CULLOUGH			_	_		
MOBILE CO.	WILMER	01/02/99	50	0	0	\$5,000	\$0
MOBILE CO.	SARALAND	01/02/99	55	0	0	\$10,000	\$0
MOBILE CO.	MOBILE	01/22/99	50	0	0	\$10,000	\$0
BALDWIN CO.	FAIRHOPE	03/03/99	58	0	0	\$30,000	\$0
MOBILE CO.	SPRING HILL	03/03/99	70	0	0	\$60,000	\$0
BALDWIN CO.	ELSANOR	03/09/99	70	0	1	\$70,000	\$0
BALDWIN CO.	GULF SHRS	03/09/99	60	0	0	\$50,000	\$0
ESCAMBIA CO.	FLOMATON	03/09/99	50	0	0	\$10,000	\$0
BALDWIN CO.	STOCKTON	03/13/99	58	0	0	\$10,000	\$0
BALDWIN CO.	SEMINOLE	03/13/99	50	0	0	\$3,000	\$0
MOBILE CO.	MOBILE	03/13/99	70	0	0	\$60,000	\$0
ESCAMBIA CO.	DIXONVILLE	05/23/99	50	0	0	\$1,000	\$0
MOBILE CO.	BAYOU LA BATRE	05/28/99	55	0	0	\$7,000	\$0
MOBILE CO.	CITRONELLE	06/04/99	50	0	0	\$5,000	\$0
MOBILE CO.	MOBILE	06/08/99	50	0	0	\$5,000	\$0
ESCAMBIA CO.	BREWTON	07/23/99	60	0	0	\$15,000	\$0
BALDWIN CO.	LITTLE RIVER	07/30/99	50	0	0	\$4,000	\$0
MOBILE CO.	SEMMES	07/30/99	50	0	0	\$1,000	\$0
BALDWIN CO.	FOLEY	08/14/99	50	0	0	\$3,000	\$0
ESCAMBIA CO.	ATMORE	08/19/99	60	0	0	\$2,000	\$0
ESCAMBIA CO.	ATMORE	08/19/99	50	0	0	\$3,000	\$0
MOBILE CO.	SEMMES	08/19/99	50	0	0	\$1,000	\$0

County	Location	Date	Magnitude (Knots)	Deaths	Injuries	Property Damage	Crop Damage
MOBILE CO.	BIG CREEK LAKE	10/09/99	60	0	0	\$10,000	\$0
BALDWIN CO.	TENSAW	01/10/00	50	0	0	\$5,000	\$0
BALDWIN CO.	TENSAW	03/03/00	50	0	0	\$3,000	\$0
MOBILE CO.	CITRONELLE	03/03/00	50	0	0	\$5,000	\$0
MOBILE CO.	MT VERNON	03/03/00	65	0	0	\$15,000	\$0
BALDWIN CO.	STAPLETON	03/11/00	50	0	0	\$3,000	\$0
ESCAMBIA CO.	APPLETON	03/19/00	55	0	0	\$10,000	\$0
MOBILE CO.	SEMMES	04/26/00	50	0	0	\$3,000	\$0
BALDWIN CO.	TENSAW	06/24/00	55	0	0	\$5,000	\$0
ESCAMBIA CO.	BREWTON	06/25/00	55	0	0	\$7,000	\$0
MOBILE CO.	CITRONELLE	07/16/00	55	0	0	\$5,000	\$0
MOBILE CO.	MOBILE	07/16/00	75	0	0	\$40,000	\$0
ESCAMBIA CO.	ATMORE	07/20/00	55	0	0	\$5,000	\$0
BALDWIN CO.	ROSINTON	07/21/00	60	0	0	\$7,000	\$0
BALDWIN CO.	BAY MINETTE	07/21/00	70	0	0	\$8,000	\$0
BALDWIN CO.	SILVERHILL	07/21/00	70	0	0	\$10,000	\$0
MOBILE CO.	IRVINGTON	07/21/00	70	0	0	\$15,000	\$0
ESCAMBIA CO.	BREWTON	07/22/00	55	0	0	\$5,000	\$0
MOBILE CO.	GULF CREST	07/22/00	55	0	0	\$5,000	\$0
MOBILE CO.	TILLMANS CORNER	07/22/00	55	0	0	\$6,000	\$0
MOBILE CO.	THEODORE	07/22/00	55	0	0	\$5,000	\$0
MOBILE CO.	BAYOU LA BATRE	07/22/00	55	0	0	\$5,000	\$0
MOBILE CO.	MOBILE	08/09/00	55	0	0	\$10,000	\$0
BALDWIN CO.	ELSANOR	08/10/00	55	0	0	\$5,000	\$0
MOBILE CO.	CITRONELLE	08/10/00	55	0	0	\$5,000	\$0
MOBILE CO.	MOBILE	08/20/00	55	0	0	\$10,000	\$0
BALDWIN CO.	STOCKTON	08/27/00	70	0	0	\$50,000	\$0
MOBILE CO.	EIGHT MILE	08/27/00	55	0	0	\$15,000	\$0
BALDWIN CO.	DAPHNE	09/02/00	55	0	0	\$5,000	\$0

County	Location	Date	Magnitude (Knots)	Deaths	Injuries	Property Damage	Crop Damage
MOBILE CO.	CHUNCHULA	09/02/00	60	0	0	\$5,000	\$0
BALDWIN CO.	LOXLEY	09/05/00	50	0	0	\$5,000	\$0
MOBILE CO.	(MOB)MOBILE BATES FL	11/06/00	55	0	0	\$8,000	\$0
MOBILE CO.	MOBILE	01/19/01	55	0	0	\$2,000	\$0
MOBILE CO.	(MOB)MOBILE BATES FL	03/03/01	50	0	0	\$5,000	\$0
BALDWIN CO.	STOCKTON	03/12/01	65	0	0	\$10,000	\$0
ESCAMBIA CO.	HUXFORD	03/12/01	90	0	1	\$1,000,000	\$0
ESCAMBIA CO.	DIXIE	03/12/01	60	0	0	\$15,000	\$0
MOBILE CO.	MT VERNON	03/12/01	55	0	0	\$15,000	\$0
MOBILE CO.	IRVINGTON	03/12/01	50	0	0	\$5,000	\$0
MOBILE CO.	MOBILE	03/12/01	60	0	0	\$3,000	\$0
ESCAMBIA CO.	ATMORE	04/04/01	55	0	0	\$0	\$0
MOBILE CO.	GRAND BAY	06/11/01	55	0	0	\$8,000	\$0
MOBILE CO.	SEMMES	06/11/01	65	0	0	\$100,000	\$0
MOBILE CO.	GEORGETOWN	06/11/01	65	0	0	\$70,000	\$0
ESCAMBIA CO.	HUXFORD	06/14/01	55	0	0	\$5,000	\$0
MOBILE CO.	MOBILE	08/10/01	55	0	0	\$5,000	\$0
BALDWIN CO.	STOCKTON	08/19/01	50	0	0	\$8,000	\$0
BALDWIN CO.	FAIRHOPE	10/13/01	50	0	0	\$10,000	\$0
BALDWIN CO.	SUMMERDALE	10/13/01	60	0	0	\$40,000	\$0
BALDWIN CO.	GULF SHRS	10/13/01	60	0	0	\$50,000	\$0
ESCAMBIA CO.	MC CULLOUGH	10/13/01	50	0	0	\$10,000	\$0
ESCAMBIA CO.	ATMORE	10/13/01	60	0	0	\$10,000	\$0
ESCAMBIA CO.	BREWTON	10/13/01	60	0	0	\$10,000	\$0
ESCAMBIA CO.	APPLETON	10/13/01	60	0	0	\$10,000	\$0
ESCAMBIA CO.	ATMORE	10/13/01	55	0	0	\$20,000	\$0
MOBILE CO.	WILMER	10/13/01	59	0	0	\$100,000	\$0
MOBILE CO.	MOBILE	10/13/01	64	0	0	\$60,000	\$0
MOBILE CO.	BUCKS	12/14/01	60	0	0	\$25,000	\$0

County	Location	Date	Magnitude (Knots)	Deaths	Injuries	Property Damage	Crop Damage
MOBILE CO.	DAWES	03/31/02	55	0	0	\$25,000	\$0
BALDWIN CO.	FAIRHOPE	04/08/02	55	0	0	\$15,000	\$0
ESCAMBIA CO.	DIXIE	04/29/02	50	0	0	\$7,000	\$0
BALDWIN CO.	SUMMERDALE	07/01/02	55	0	0	\$5,000	\$0
MOBILE CO.	THEODORE	07/13/02	50	0	0	\$8,000	\$0
ESCAMBIA CO.	MC CULLOUGH	07/28/02	50	0	0	\$8,000	\$0
MOBILE CO.	CITRONELLE	08/02/02	50	0	0	\$10,000	\$0
MOBILE CO.	MOBILE	08/19/02	55	0	0	\$5,000	\$0
BALDWIN CO.	JOSEPHINE	08/25/02	60	0	0	\$35,000	\$0
MOBILE CO.	CITRONELLE	08/25/02	50	0	0	\$8,000	\$0
MOBILE CO.	THEODORE	10/29/02	50	0	0	\$25,000	\$0
BALDWIN CO.	DAPHNE	11/05/02	60	0	0	\$15,000	\$0
MOBILE CO.	THEODORE	11/05/02	55	0	0	\$1,000	\$0
MOBILE CO.	TILLMANS CORNER	11/05/02	55	0	0	\$2,000	\$0
MOBILE CO.	GEORGETOWN	11/15/02	50	0	0	\$5,000	\$0
BALDWIN CO.	STOCKTON	12/19/02	50	0	0	\$8,000	\$0
BALDWIN CO.	DAPHNE	12/19/02	50	0	0	\$8,000	\$0
BALDWIN CO.	SUMMERDALE	12/24/02	50	0	0	\$10,000	\$0
ESCAMBIA CO.	WALLACE	12/24/02	50	0	0	\$5,000	\$0
MOBILE CO.	(MOB)MOBILE BATES FL	12/24/02	55	0	0	\$0	\$0
MOBILE CO.	ST ELMO	12/24/02	50	0	0	\$5,000	\$0
BALDWIN CO.	GULF SHRS	12/31/02	55	0	0	\$10,000	\$0
MOBILE CO.	(MOB)MOBILE BATES FL	12/31/02	52	0	0	\$0	\$0
MOBILE CO.	(MOB)MOBILE BATES FL	12/31/02	53	0	0	\$0	\$0
MOBILE CO.	MT VERNON	12/31/02	55	0	0	\$20,000	\$0
MOBILE CO.	GULF CREST	12/31/02	50	0	0	\$5,000	\$0
BALDWIN CO.	FAIRHOPE	02/21/03	53	0	0	\$5,000	\$0
BALDWIN CO.	ROB- ERTSDALE	03/12/03	55	0	0	\$5,000	\$0

County	Location	Date	Magnitude (Knots)	Deaths	Injuries	Property Damage	Crop Damage
BALDWIN	SUMMERDALE	03/13/03	50	0	0	\$3,000	\$0
CO.	SCIVILIZABLE	03/13/03	30	U	U	Ψ5,000	ΨΟ
BALDWIN	MAGNOLIA	03/13/03	50	0	0	\$5,000	\$0
CO.	SPGS						
ESCAMBIA	FLOMATON	04/25/03	50	0	0	\$15,000	\$0
CO.							
BALDWIN CO.	LATHAM	05/02/03	50	0	0	\$5,000	\$0
MOBILE CO.	COTTAGE HILL	06/03/03	50	0	0	\$20,000	\$0
MOBILE CO.	COUNTYWIDE	06/30/03	50	0	0	\$7,000	\$0
MOBILE CO.	COTTAGE HILL	06/30/03	50	0	0	\$5,000	\$0
BALDWIN CO.	STOCKTON	07/01/03	50	0	0	\$5,000	\$0
BALDWIN CO.	SUMMERDALE	08/16/03	50	0	0	\$7,000	\$0
BALDWIN	BELFOREST	11/18/03	50	0	0	\$10,000	\$0
CO.							
ESCAMBIA	APPLETON	01/26/04	50	0	0	\$8,000	\$0
CO.	DDEWTON	01/06/04	70	0	0	Φ7.000	фО
ESCAMBIA CO.	BREWTON	01/26/04	50	0	0	\$5,000	\$0
BALDWIN	BAY MINETTE	06/02/04	50	0	0	\$10,000	\$0
CO.	BITT WINTELLE	00/02/04	30	U	U	Ψ10,000	ΨΟ
BALDWIN	SILVERHILL	06/03/04	55	0	0	\$5,000	\$0
CO.							
ESCAMBIA CO.	LITTLE ROCK	06/12/04	50	0	0	\$8,000	\$0
MOBILE CO.	(MOB)MOBILE BATES FL	06/18/04	50	0	0	\$5,000	\$0
MOBILE CO.	SARALAND	06/22/04	50	0	0	\$5,000	\$0
ESCAMBIA CO.	HUXFORD	06/24/04	50	0	0	\$10,000	\$0
ESCAMBIA CO.	BOYKIN	06/27/04	50	0	0	\$5,000	\$0
MOBILE CO.	SPRING HILL	07/13/04	50	0	0	\$15,000	\$0
BALDWIN CO.	SPANISH FT	07/25/04	55	0	0	\$5,000	\$0
MOBILE CO.	MOBILE	07/25/04	55	0	0	\$5,000	\$0
BALDWIN CO.	ORANGE BEACH	01/29/05	50	0	0	\$15,000	\$0
BALDWIN CO.	LOXLEY	03/27/05	50	0	0	\$10,000	\$0
BALDWIN CO.	LOXLEY	04/01/05	50	0	0	\$15,000	\$0

County	Location	Date	Magnitude (Knots)	Deaths	Injuries	Property Damage	Crop Damage
MOBILE CO.	(MOB)MOBILE BATES FL	04/11/05	75	0	0	\$150,000	\$0
BALDWIN CO.	LOTTIE	05/24/05	50	0	0	\$10,000	\$0
ESCAMBIA CO.	ATMORE	05/24/05	50	0	0	\$10,000	\$0
MOBILE CO.	(MOB)MOBILE BATES FL	06/15/05	55	0	0	\$10,000	\$0
MOBILE CO.	MOBILE BATES FLD	07/21/05	50	0	0	\$12,000	\$0
MOBILE CO.	ALABAMA PORT	09/23/05	52	0	0	\$4,000	\$0
MOBILE CO.	ALABAMA PORT	09/24/05	50	0	0	\$5,000	\$0
BALDWIN CO.	BAY MINETTE	01/17/06	50	0	0	\$10,000	\$0
BALDWIN CO.	SEMINOLE	05/08/06	55	0	0	\$10,000	\$0
BALDWIN CO.	GULF SHRS	06/23/06	50	0	0	\$10,000	\$0
BALDWIN CO.	GULF SHRS	06/23/06	50	0	0	\$20,000	\$0
MOBILE CO.	SEMMES	06/23/06	50	0	0	\$10,000	\$0
MOBILE CO.	ST ELMO	06/23/06	50	0	0	\$15,000	\$0
MOBILE CO.	(MOB)MOBILE BATES FL	06/25/06	50	0	0	\$10,000	\$0
BALDWIN CO.	FOLEY	07/20/06	50	0	0	\$10,000	\$0
MOBILE CO.	GEORGETOWN	08/09/06	50	0	0	\$30,000	\$0
ESCAMBIA CO.	BREWTON	08/15/06	50	0	0	\$10,000	\$0
MOBILE CO.	GEORGETOWN	08/15/06	50	0	0	\$10,000	\$0
BALDWIN CO.	BAY MINETTE	08/30/06	50	0	0	\$12,000	\$0
BALDWIN CO.	BAY MINETTE	08/30/06	50	0	0	\$12,000	\$0
ESCAMBIA CO.	BREWTON	08/30/06	50	0	0	\$12,000	\$0
MOBILE CO.	GRAND BAY	08/30/06	50	0	0	\$45,000	\$0
MOBILE CO.	(MOB)MOBILE BATES FL	10/16/06	50	0	0	\$6,000	\$0
MOBILE CO.	(MOB)MOBILE BATES FL	10/16/06	50	0	0	\$6,000	\$0
MOBILE CO.	SEMMES	10/16/06	50	0	0	\$6,000	\$0
BALDWIN CO.	MIFLIN	11/15/06	50	0	0	\$10,000	\$0

County	Location	Date	Magnitude (Knots)	Deaths	Injuries	Property Damage	Crop Damage
ESCAMBIA CO.	FLOMATON	11/15/06	50	0	0	\$10,000	\$0
MOBILE CO.	WILMER	11/15/06	50	0	0	\$10,000	\$0
MOBILE CO.	BAYOU LA BATRE	11/15/06	50	0	0	\$12,000	\$0
BALDWIN CO.	BELFOREST	05/13/07	50	0	0	\$5,000	\$0
MOBILE CO.	MOBILE	05/16/07	50	0	0	\$15,000	\$0
BALDWIN CO.	ROB- ERTSDALE	06/09/07	52	0	0	\$0	\$0
BALDWIN CO.	SUMMERDALE	06/09/07	52	0	0	\$10,000	\$0
MOBILE CO.	FOWL RIVER	06/12/07	52	0	0	\$20,000	\$0
MOBILE CO.	WILMER	06/19/07	50	0	0	\$15,000	\$0
MOBILE CO.	MOBILE	07/03/07	61	0	8	\$3,500,000	\$0
BALDWIN CO.	FAIRHOPE	07/11/07	50	0	0	\$10,000	\$0
BALDWIN CO.	SPANISH FT	07/14/07	50	0	0	\$10,000	\$0
BALDWIN CO.	BELFOREST	07/14/07	50	0	0	\$10,000	\$0
BALDWIN CO.	SPANISH FT	08/24/07	52	0	0	\$10,000	\$0
MOBILE CO.	GEORGETOWN	10/18/07	50	0	0	\$20,000	\$0
BALDWIN CO.	LOXLEY	02/12/08	50	0	0	\$55,000	\$0
ESCAMBIA CO.	BREWTON	02/12/08	50	0	0	\$12,000	\$0
ESCAMBIA CO.	BREWTON	02/12/08	56	0	0	\$0	\$0
MOBILE CO.	DAUPHIN IS	02/12/08	64	0	0	\$0	\$0
MOBILE CO.	(MOB)MOBILE BATES FL	02/12/08	50	0	0	\$10,000	\$0
ESCAMBIA CO.	BREWTON	02/17/08	50	0	0	\$12,000	\$0
BALDWIN CO.	GULF SHRS	03/01/08	50	0	0	\$18,000	\$0
BALDWIN CO.	FAIRHOPE	05/15/08	50	0	0	\$12,000	\$0
BALDWIN CO.	SUMMERDALE	05/15/08	54	0	0	\$30,000	\$0
MOBILE CO.	CITRONELLE	05/15/08	54	0	0	\$100,000	\$0
MOBILE CO.	DIXON COR- NER	06/22/08	50	0	0	\$12,000	\$0
BALDWIN CO.	FAIRHOPE	06/29/08	55	0	0	\$25,000	\$0

County	Location	Date	Magnitude (Knots)	Deaths	Injuries	Property Damage	Crop Damage
MOBILE CO.	(MOB)MOBILE BATES FL	07/12/08	50	0	0	\$0	\$0
MOBILE CO.	GRAND BAY	07/13/08	50	0	0	\$0	\$0
ESCAMBIA CO.	BREWTON	03/26/09	52	0	0	\$12,000	\$0
BALDWIN CO.	ROB- ERTSDALE	03/27/09	75	0	0	\$0	\$0
BALDWIN CO.	ROB- ERTSDALE	03/27/09	104	0	0	\$125,000	\$0
ESCAMBIA CO.	BREWTON	03/27/09	60	0	0	\$35,000	\$0
ESCAMBIA CO.	DIXIE	03/27/09	60	0	0	\$25,000	\$0
MOBILE CO.	DAWES	03/27/09	52	0	0	\$20,000	\$0
MOBILE CO.	MOBILE BATES FLD	03/27/09	52	0	0	\$40,000	\$0
ESCAMBIA CO.	ROBINSON- VILLE	04/13/09	60	0	0	\$70,000	\$0
ESCAMBIA CO.	FLOMATON	05/11/09	52	0	0	\$20,000	\$0
ESCAMBIA CO.	KEEGO	07/02/09	45	0	1	\$20,000	\$0
ESCAMBIA CO.	BREWTON	07/02/09	52	0	1	\$100,000	\$0
ESCAMBIA CO.	ROBERTS	07/26/09	52	0	0	\$10,000	\$0
BALDWIN CO.	DAPHNE	07/31/09	52	0	0	\$10,000	\$0
MOBILE CO.	MOBILE BATES FLD	07/31/09	52	0	0	\$12,000	\$0
MOBILE CO.	MOBILE BATES FLD	08/03/09	52	0	0	\$10,000	\$0
BALDWIN CO.	SEMINOLE	08/04/09	52	0	0	\$10,000	\$0
BALDWIN CO.	PHILLIPS- VILLE	08/05/09	52	0	0	\$10,000	\$0
BALDWIN CO.	PHILLIPS- VILLE	08/05/09	52	0	0	\$10,000	\$0
BALDWIN CO.	GULF SHRS	12/24/09	50	0	0	\$0	\$0
MOBILE CO.	(MOB)MOBILE BATES FL	12/24/09	50	0	0	\$0	\$0
MOBILE CO.	PRICHARD	12/24/09	50	0	0	\$0	\$0
BALDWIN CO.	ELBERTA	06/18/10	52	0	0	\$12,000	\$0
ESCAMBIA CO.	APPLETON	08/04/10	52	0	0	\$0	\$0

County	Location	Date	Magnitude (Knots)	Deaths	Injuries	Property Damage	Crop Damage
ESCAMBIA CO.	ROBERTS	10/24/10	52	0	0	\$0	\$0
BALDWIN CO.	DAPHNE	12/11/10	52	0	0	\$10,000	\$0
MOBILE CO.	THEODORE	12/11/10	52	0	0	\$5,000	\$0
BALDWIN CO.	GULF SHRS	01/18/11	52	0	0	\$3,000	\$0
BALDWIN CO.	FOLEY	02/01/11	52	0	5	\$10,000	\$0
BALDWIN CO.	SEMINOLE	02/01/11	52	0	5	\$0	\$0
MOBILE CO.	DELCHAMPS	03/05/11	52	0	0	\$5,000	\$0
ESCAMBIA CO.	FLOMATON	03/09/11	52	0	0	\$5,000	\$0
ESCAMBIA CO.	BREWTON	03/09/11	52	0	0	\$5,000	\$0
MOBILE CO.	MT VERNON	03/09/11	61	0	0	\$7,000	\$0
MOBILE CO.	GRAND BAY	03/09/11	70	0	0	\$20,000	\$0
MOBILE CO.	SPRING HILL	04/04/11	50	0	0	\$0	\$0
MOBILE CO.	NAVCO	04/04/11	50	0	0	\$0	\$0
ESCAMBIA CO.	WAWBEEK	05/13/11	52	0	0	\$5,000	\$0
ESCAMBIA CO.	BREWTON	06/07/11	52	0	0	\$5,000	\$0
ESCAMBIA CO.	BREWTON	06/07/11	52	0	0	\$10,000	\$0
ESCAMBIA CO.	BREWTON	06/07/11	52	0	0	\$3,000	\$0
ESCAMBIA CO.	BREWTON	06/07/11	52	0	0	\$5,000	\$0
MOBILE CO.	MOBILE BATES FLD	06/16/11	52	0	0	\$2,000	\$0
MOBILE CO.	MOBILE BATES FLD	06/16/11	52	0	0	\$2,000	\$0
BALDWIN CO.	LOXLEY	07/02/11	61	0	0	\$10,000	\$0
ESCAMBIA CO.	NOKOMIS	07/02/11	52	0	0	\$7,000	\$0
MOBILE CO.	(MOB)MOBILE BATES FL	07/02/11	53	0	0	\$0	\$0
MOBILE CO.	(MOB)MOBILE BATES FL	07/31/11	52	0	0	\$0	\$0
MOBILE CO.	MOBILE BATES FLD	08/04/11	52	0	0	\$2,000	\$0
MOBILE CO.	SPRING HILL	08/12/11	52	0	0	\$2,000	\$0
BALDWIN CO.	FOLEY	08/24/11	51	0	0	\$0	\$0

County	Location	Date	Magnitude (Knots)	Deaths	Injuries	Property Damage	Crop Damage
MOBILE CO.	GRAND BAY	08/24/11	51	0	0	\$0	\$0
MOBILE CO.	MOBILE BATES FLD	08/24/11	53	0	0	\$0	\$0
MOBILE CO.	MOBILE BATES FLD	09/05/11	52	0	0	\$2,000	\$0
MOBILE CO.	MOBILE	09/05/11	56	0	0	\$0	\$0
MOBILE CO.	MOBILE	09/05/11	56	0	0	\$0	\$0
BALDWIN CO.	SEMINOLE	02/18/12	61	0	0	\$10,000	\$0
BALDWIN CO.	LILLIAN	02/18/12	61	0	0	\$10,000	\$0
ESCAMBIA	FREE-	02/18/12	52	0	0	\$5,000	\$0
CO.	MANVILLE						
ESCAMBIA	POARCH	02/18/12	52	0	0	\$2,000	\$0
CO.		0.5 / 1.0 / 1.5				* * * * * * *	
ESCAMBIA CO.	APPLETON	02/18/12	61	0	0	\$5,000	\$0
MOBILE CO.	GRAND BAY	02/18/12	52	0	0	\$3,000	\$0
BALDWIN CO.	ELSANOR	05/30/12	52	0	0	\$8,000	\$0
ESCAMBIA CO.	ATMORE	06/14/12	56	0	0	\$0	\$0
MOBILE CO.	BAYOU LA BATRE	07/02/12	52	0	0	\$2,000	\$0
BALDWIN CO.	SILVERHILL	07/03/12	52	0	0	\$7,000	\$0
BALDWIN CO.	SUMMERDALE	07/04/12	52	0	0	\$5,000	\$0
BALDWIN CO.	WHITEHOUSE FORKS	07/17/12	52	0	0	\$2,000	\$0
BALDWIN CO.	DAPHNE	07/17/12	52	0	0	\$2,000	\$0
BALDWIN CO.	FOLEY	07/30/12	52	0	0	\$7,000	\$0
ESCAMBIA CO.	FREE- MANVILLE	12/25/12	70	0	0	\$50,000	\$0
MOBILE CO.	SEMMES	12/25/12	61	0	0	\$4,000	\$0
BALDWIN CO.	GULF SHRS	04/14/13	52	0	0	\$10,000	\$0
BALDWIN CO.	FAIRHOPE	04/14/13	52	0	0	\$2,000	\$0
MOBILE CO.	SOUTH OR- CHARD	04/14/13	52	0	0	\$5,000	\$0
BALDWIN CO.	FAIRHOPE	07/22/13	50	0	0	\$4,500	\$0
BALDWIN CO.	ROSINTON	07/22/13	50	0	0	\$4,500	\$0

County	Location	Date	Magnitude (Knots)	Deaths	Injuries	Property Damage	Crop Damage
BALDWIN	SEMINOLE	07/22/13	50	0	0	\$4,500	\$0
CO.							
ESCAMBIA CO.	ROCKHILL	09/24/13	52	0	0	\$1,000	\$0
BALDWIN CO.	BAY MINETTE	02/21/14	52	0	0	\$2,000	\$0
MOBILE CO.	SEVEN HILLS	02/21/14	52	0	0	\$2,000	\$0
ESCAMBIA CO.	ATMORE	03/16/14	78	0	0	\$250,000	\$0
ESCAMBIA CO.	ATMORE	03/16/14	62	0	0	\$0	\$0
ESCAMBIA CO.	ATMORE	03/16/14	61	0	0	\$7,000	\$0
MOBILE CO.	SARALAND	03/16/14	52	0	0	\$2,000	\$0
MOBILE CO.	SARALAND	03/16/14	61	0	0	\$4,000	\$0
MOBILE CO.	SARALAND	03/16/14	61	0	0	\$5,000	\$0
MOBILE CO.	SARALAND	03/16/14	52	0	0	\$2,000	\$0
ESCAMBIA CO.	JACK SPGS	04/07/14	52	0	0	\$10,000	\$0
BALDWIN CO.	ROB- ERTSDALE	04/14/14	52	0	0	\$5,000	\$0
MOBILE CO.	(MOB)MOBILE BATES FL	04/29/14	50	0	0	\$0	\$0
BALDWIN CO.	ELSANOR	05/28/14	61	0	0	\$0	\$0
MOBILE CO.	PRICHARD	08/09/14	52	0	0	\$10,000	\$0
MOBILE CO.	SARALAND	08/09/14	61	0	0	\$25,000	\$0
BALDWIN CO.	ELBERTA	12/23/14	45	0	0	\$1,000	\$0
BALDWIN CO.	FAIRHOPE	04/25/15	50	0	0	\$90,000	\$0
BALDWIN CO.	POINT CLEAR	04/25/15	52	0	0	\$5,000	\$0
BALDWIN CO.	SILVERHILL	04/25/15	52	0	0	\$10,000	\$0
BALDWIN CO.	ROB- ERTSDALE	04/25/15	61	0	0	\$120,000	\$0
BALDWIN CO.	FOLEY	04/25/15	52	0	0	\$10,000	\$0
BALDWIN CO.	ROSINTON	04/25/15	52	0	0	\$30,000	\$0
ESCAMBIA CO.	FLOMATON	04/25/15	52	0	0	\$5,000	\$0
ESCAMBIA CO.	POLLARD	04/25/15	52	0	0	\$10,000	\$0
ESCAMBIA CO.	BREWTON	04/25/15	61	0	0	\$2,000	\$0

County	Location	Date	Magnitude (Knots)	Deaths	Injuries	Property Damage	Crop Damage
MOBILE CO.	SEMMES	04/25/15	52	0	0	\$2,000	\$0
MOBILE CO.	TANNER WIL- LIAMS	04/25/15	52	0	0	\$2,000	\$0
MOBILE CO.	GRAND BAY	04/25/15	52	0	0	\$1,000	\$0
MOBILE CO.	ST ELMO ARPT	04/25/15	52	0	0	\$1,000	\$0
MOBILE CO.	ORCHARD	04/25/15	52	0	0	\$1,000	\$0
MOBILE CO.	SPRING HILL	04/25/15	52	0	0	\$1,000	\$0
ESCAMBIA CO.	APPLETON	05/20/15	52	0	0	\$1,000	\$0
MOBILE CO.	MOBILE	06/22/15	52	0	0	\$5,000	\$0
MOBILE CO.	CHICKASAW	06/22/15	52	0	0	\$2,000	\$0
MOBILE CO.	SEVEN HILLS	06/27/15	52	0	0	\$2,000	\$0
MOBILE CO.	(MOB)MOBILE BATES FL	06/27/15	52	0	0	\$2,000	\$0
BALDWIN CO.	BRIDGEHEAD	07/17/15	61	0	0	\$5,000	\$0
MOBILE CO.	MOBILE	07/17/15	61	0	0	\$5,000	\$0
MOBILE CO.	MOBILE	07/17/15	61	0	0	\$5,000	\$0
MOBILE CO.	MOBILE	07/17/15	70	0	0	\$5,000	\$0
MOBILE CO.	MOBILE	07/17/15	70	0	0	\$5,000	\$0
MOBILE CO.	MOBILE	07/17/15	70	0	0	\$5,000	\$0
MOBILE CO.	MOBILE	07/17/15	66	0	0	\$0	\$0
MOBILE CO.	MOBILE BATES FLD	07/17/15	61	0	0	\$5,000	\$0
MOBILE CO.	(MOB)MOBILE BATES FL	07/17/15	61	0	0	\$5,000	\$0
MOBILE CO.	THEODORE	07/17/15	61	0	0	\$5,000	\$0
BALDWIN CO.	GULF SHRS	07/19/15	53	0	0	\$0	\$0
ESCAMBIA CO.	BREWTON	07/19/15	52	0	0	\$3,000	\$0
MOBILE CO.	CITRONELLE	08/08/15	52	0	0	\$5,000	\$0
MOBILE CO.	CHUNCHULA	08/08/15	52	0	0	\$5,000	\$0
MOBILE CO.	SARALAND	08/08/15	52	0	0	\$5,000	\$0
MOBILE CO.	(BFM)MOBILE BROOKLEY	08/08/15	50	0	0	\$0	\$0
BALDWIN CO.	SPANISH FT	08/09/15	52	0	1	\$30,000	\$0
MOBILE CO.	COTTAGE HILL	09/27/15	52	0	0	\$2,000	\$0
MOBILE CO.	SPRING HILL	09/27/15	52	0	0	\$2,000	\$0
MOBILE CO.	MOBILE	10/31/15	60	0	0	\$3,000	\$0
MOBILE CO.	GRAND BAY	12/23/15	50	0	0	\$5,000	\$0

County	Location	Date	Magnitude (Knots)	Deaths	Injuries	Property Damage	Crop Damage
MOBILE CO.	THEODORE	12/23/15	50	0	0	\$10,000	\$0
BALDWIN CO.	DYAS	01/21/16	52	0	0	\$5,000	\$0
ESCAMBIA CO.	ATMORE	01/21/16	61	0	0	\$5,000	\$0
ESCAMBIA CO.	ATMORE	01/21/16	52	0	0	\$5,000	\$0
ESCAMBIA CO.	PORCH	01/21/16	61	0	0	\$10,000	\$0
ESCAMBIA CO.	FLOMATON	01/21/16	52	0	0	\$5,000	\$0
ESCAMBIA CO.	HUXFORD	01/21/16	52	0	0	\$5,000	\$0
MOBILE CO.	MOBILE	02/03/16	52	0	0	\$10,000	\$0
ESCAMBIA CO.	BREWTON	02/15/16	52	0	0	\$5,000	\$0
MOBILE CO.	MON LOUIS	02/15/16	53	0	0	\$2,000	\$0
ESCAMBIA CO.	BRADLEY	03/03/16	52	0	0	\$10,000	\$0
BALDWIN CO.	FAIRHOPE	03/17/16	61	0	0	\$30,000	\$0
BALDWIN CO.	MALBIS	03/17/16	52	0	0	\$1,000	\$0
MOBILE CO.	SEMMES	03/17/16	52	0	0	\$2,000	\$0
MOBILE CO.	SARALAND	03/17/16	52	0	0	\$2,000	\$0
MOBILE CO.	MOBILE BATES FLD	03/17/16	52	0	0	\$2,000	\$0
MOBILE CO.	(MOB)MOBILE BATES FL	03/17/16	54	0	0	\$2,000	\$0
MOBILE CO.	TILLMANS CORNER	03/17/16	61	0	0	\$5,000	\$0
MOBILE CO.	(MOB)MOBILE BATES FL	03/17/16	61	0	0	\$10,000	\$0
ESCAMBIA CO.	WALLACE	03/24/16	52	0	0	\$2,000	\$0
ESCAMBIA CO.	APPLETON	03/24/16	52	0	0	\$2,000	\$0
ESCAMBIA CO.	BREWTON	03/24/16	52	0	0	\$5,000	\$0
ESCAMBIA CO.	KIRKLAND	03/24/16	61	0	0	\$10,000	\$0
ESCAMBIA CO.	MC KENZIE	03/24/16	52	0	0	\$2,000	\$0
MOBILE CO.	MOBILE	03/24/16	61	0	0	\$2,000	\$0
MOBILE CO.	SPRING HILL	03/24/16	52	0	0	\$10,000	\$0
ESCAMBIA CO.	CARNEY	03/31/16	60	0	0	\$5,000	\$0

County	Location	Date	Magnitude (Knots)	Deaths	Injuries	Property Damage	Crop Damage
MOBILE CO.	GRAND BAY	05/19/16	52	0	0	\$5,000	\$0
BALDWIN CO.	FT MORGAN	05/20/16	60	0	0	\$0	\$0
BALDWIN CO.	STOCKTON	05/20/16	52	0	0	\$3,000	\$0
BALDWIN CO.	BAY MINETTE	05/20/16	52	0	0	\$3,000	\$0
MOBILE CO.	SEVEN HILLS	05/20/16	52	0	0	\$1,000	\$0
MOBILE CO.	WILMER	05/20/16	52	0	0	\$5,000	\$0
MOBILE CO.	KUSHLA	05/20/16	52	0	0	\$3,000	\$0
MOBILE CO.	COTTAGE HILL	05/20/16	52	0	0	\$3,000	\$0
MOBILE CO.	MERTZ	05/20/16	52	0	0	\$5,000	\$0
MOBILE CO.	SOUTH OR- CHARD	05/20/16	52	0	0	\$2,000	\$0
MOBILE CO.	AXIS	05/20/16	52	0	0	\$1,000	\$0
ESCAMBIA CO.	ATMORE	05/31/16	52	0	0	\$10,000	\$0
MOBILE CO.	BUCKS	05/31/16	52	0	0	\$5,000	\$0
ESCAMBIA CO.	FLOMATON	06/13/16	52	0	0	\$2,000	\$0
BALDWIN CO.	RABUN	06/17/16	61	0	0	\$10,000	\$0
ESCAMBIA CO.	BREWTON	06/17/16	52	0	0	\$4,000	\$0
ESCAMBIA CO.	ATMORE MUNI ARPT	06/17/16	52	0	0	\$0	\$0
MOBILE CO.	CITRONELLE	06/17/16	52	0	0	\$0	\$0
MOBILE CO.	CITRONELLE	06/17/16	52	0	0	\$2,000	\$0
MOBILE CO.	MOBILE	06/17/16	52	0	0	\$3,000	\$0
ESCAMBIA CO.	EAST BREWTON	06/26/16	52	0	0	\$5,000	\$0
ESCAMBIA CO.	ATMORE	06/26/16	52	0	0	\$10,000	\$0
MOBILE CO.	(MOB)MOBILE BATES FL	07/10/16	52	0	0	\$5,000	\$0
MOBILE CO.	(BFM)MOBILE BROOKLEY	07/20/16	60	0	0	\$50,000	\$0
MOBILE CO.	(BFM)MOBILE BROOKLEY	07/20/16	60	0	0	\$5,000	\$0
BALDWIN CO.	GULF SHRS	01/02/17	70	0	1	\$950,000	\$0
MOBILE CO.	(MOB)MOBILE BATES FL	01/02/17	52	0	0	\$5,000	\$0
ESCAMBIA CO.	APPLETON	01/21/17	61	0	0	\$40,000	\$0

County	Location	Date	Magnitude (Knots)	Deaths	Injuries	Property Damage	Crop Damage
ESCAMBIA CO.	BREWTON	01/21/17	52	0	0	\$5,000	\$0
MOBILE CO.	PIERCIE	01/21/17	52	0	0	\$4,000	\$0
MOBILE CO.	SEVEN HILLS	01/21/17	52	0	0	\$10,000	\$0
MOBILE CO.	COTTAGE HILL	01/21/17	70	0	0	\$300,000	\$0
BALDWIN CO.	BAY MINETTE	02/07/17	52	0	0	\$2,000	\$0
BALDWIN CO.	GULF SHRS	02/07/17	51	0	0	\$0	\$0
MOBILE CO.	SATSUMA	02/07/17	61	0	0	\$2,000	\$0
ESCAMBIA CO.	FLOMATON	04/03/17	52	0	0	\$2,000	\$0
ESCAMBIA CO.	BREWTON	04/03/17	52	0	0	\$5,000	\$0
MOBILE CO.	CITRONELLE	04/03/17	61	0	0	\$5,000	\$0
BALDWIN CO.	BAY MINETTE	05/12/17	52	0	0	\$20,000	\$0
BALDWIN CO.	PHILLIPS- VILLE	05/12/17	61	0	0	\$15,000	\$0
MOBILE CO.	SEMMES	05/12/17	52	0	0	\$10,000	\$0
MOBILE CO.	KUSHLA	05/12/17	52	0	0	\$4,000	\$0
MOBILE CO.	HERON BAY	06/21/17	52	0	0	\$5,000	\$0
MOBILE CO.	DAWES	06/21/17	52	0	0	\$5,000	\$0
BALDWIN CO.	MIFLIN	07/26/17	54	0	0	\$0	\$0
BALDWIN CO.	GULF SHRS	07/26/17	52	0	0	\$10,000	\$0
MOBILE CO.	MOBILE BATES FLD	09/22/17	52	0	0	\$5,000	\$0
MOBILE CO.	SPRING HILL	04/14/18	50	0	0	\$10,000	\$0
ESCAMBIA CO.	ROBERTS	04/22/18	70	0	0	\$50,000	\$0
ESCAMBIA CO.	ATMORE	05/17/18	52	0	0	\$5,000	\$0
ESCAMBIA CO.	POLLARD	05/17/18	52	0	0	\$2,000	\$0
ESCAMBIA CO.	BREWTON	05/17/18	52	0	0	\$2,000	\$0
MOBILE CO.	(MOB)MOBILE BATES FL	06/09/18	52	0	0	\$2,000	\$0
BALDWIN CO.	BAY MINETTE	06/28/18	52	0	0	\$5,000	\$0
ESCAMBIA CO.	BREWTON	06/28/18	52	0	0	\$10,000	\$0
MOBILE CO.	SEMMES	06/28/18	52	0	0	\$3,000	\$0

County	Location	Date	Magnitude (Knots)	Deaths	Injuries	Property Damage	Crop Damage
BALDWIN CO.	STOCKTON	11/01/18	52	0	0	\$5,000	\$0
BALDWIN CO.	BAY MINETTE	11/01/18	52	0	0	\$5,000	\$0
MOBILE CO.	DAWES	11/01/18	61	0	0	\$10,000	\$0
MOBILE CO.	TILLMANS CORNER	11/01/18	61	0	0	\$10,000	\$0
ESCAMBIA CO.	FREE- MANVILLE	03/03/19	52	0	0	\$5,000	\$0
ESCAMBIA CO.	BREWTON	04/14/19	52	0	0	\$10,000	\$0
ESCAMBIA CO.	BREWTON MUNI ARPT	04/14/19	52	0	0	\$10,000	\$0
MOBILE CO.	SARALAND	04/14/19	52	0	0	\$5,000	\$0
BALDWIN CO.	STOCKTON	04/18/19	52	0	0	\$5,000	\$0
BALDWIN CO.	DOUG- LASVILLE	04/18/19	52	0	0	\$10,000	\$0
BALDWIN CO.	SEMINOLE	04/18/19	52	0	0	\$2,000	\$0
MOBILE CO.	MOBILE BATES FLD	04/18/19	52	0	0	\$5,000	\$0
MOBILE CO.	(MOB)MOBILE BATES FL	04/18/19	52	0	0	\$5,000	\$0
MOBILE CO.	COTTAGE HILL	04/18/19	52	0	0	\$25,000	\$0
MOBILE CO.	SPRING HILL	04/18/19	52	0	0	\$2,000	\$0
MOBILE CO.	SPRING HILL	04/18/19	52	0	0	\$5,000	\$0
MOBILE CO.	COTTAGE HILL	04/18/19	52	0	0	\$20,000	\$0
MOBILE CO.	SPRING HILL	04/18/19	50	0	0	\$5,000	\$0
MOBILE CO.	CITRONELLE	04/25/19	52	0	0	\$2,000	\$0
MOBILE CO.	GRAND BAY	05/04/19	52	0	0	\$0	\$0
MOBILE CO.	(MOB)MOBILE BATES FL	05/04/19	52	0	0	\$0	\$0
MOBILE CO.	THEODORE	05/04/19	52	0	1	\$0	\$0
MOBILE CO.	TILLMANS CORNER	05/04/19	52	0	0	\$0	\$0
BALDWIN CO.	ROB- ERTSDALE	05/12/19	52	0	0	\$0	\$0
BALDWIN CO.	FOLEY MUNI ARPT	05/12/19	61	0	0	\$0	\$0
BALDWIN CO.	GULF SHRS	05/12/19	70	0	0	\$0	\$0
BALDWIN CO.	GULF SHRS	05/12/19	63	0	0	\$0	\$0

County	Location	Date	Magnitude (Knots)	Deaths	Injuries	Property Damage	Crop Damage
MOBILE CO.	DAUPHIN IS	05/12/19	70	0	0	\$0	\$0
BALDWIN CO.	SPANISH FT	06/07/19	52	0	0	\$0	\$0
BALDWIN CO.	BAY MINETTE	06/25/19	52	0	0	\$0	\$0
BALDWIN CO.	BAY MINETTE	06/27/19	52	0	0	\$0	\$0
BALDWIN CO.	DAPHNE	06/27/19	52	0	0	\$0	\$0
BALDWIN CO.	GULF SHRS	06/27/19	52	0	0	\$0	\$0
MOBILE CO.	CITRONELLE	06/27/19	52	0	0	\$0	\$0
MOBILE CO.	SEMMES	06/27/19	52	0	0	\$0	\$0
MOBILE CO.	MOBILE	06/27/19	52	0	0	\$0	\$0
MOBILE CO.	MOBILE	06/27/19	52	0	0	\$0	\$0
MOBILE CO.	MOBILE	06/27/19	52	0	0	\$0	\$0
MOBILE CO.	IRVINGTON	06/27/19	52	0	0	\$0	\$0
MOBILE CO.	(MOB)MOBILE BATES FL	06/28/19	51	0	0	\$0	\$0
MOBILE CO.	(MOB)MOBILE BATES FL	06/28/19	52	0	0	\$0	\$0
MOBILE CO.	MON LOUIS	07/23/19	52	0	0	\$0	\$0
ESCAMBIA CO.	APPLETON	01/11/20	52	0	0	\$0	\$0
ESCAMBIA CO.	BREWTON	01/11/20	52	0	0	\$0	\$0
MOBILE CO.	MOBILE	01/11/20	52	0	0	\$0	\$0
ESCAMBIA CO.	SARDINE	03/04/20	52	0	0	\$0	\$0
ESCAMBIA CO.	BREWTON	03/04/20	61	0	0	\$0	\$0
BALDWIN CO.	TAYLORS CAMP	03/31/20	52	0	0	\$0	\$0
MOBILE CO.	DAUPHIN IS	04/09/20	61	0	0	\$0	\$0
BALDWIN CO.	FT MORGAN	04/10/20	58	0	0	\$0	\$0
MOBILE CO.	DAUPHIN IS	04/10/20	53	0	0	\$0	\$0
BALDWIN CO.	MALBIS	04/19/20	70	0	0	\$0	\$0
BALDWIN CO.	JACKSON OAK	04/19/20	61	0	0	\$0	\$0
BALDWIN CO.	LOXLEY	04/19/20	64	0	0	\$0	\$0
BALDWIN CO.	BATTLES WHARF	04/19/20	70	0	0	\$0	\$0

County	Location	Date	Magnitude (Knots)	Deaths	Injuries	Property Damage	Crop Damage
ESCAMBIA CO.	HUXFORD	04/19/20	61	0	0	\$0	\$0
MOBILE CO.	IRVINGTON	04/19/20	52	0	0	\$0	\$0
MOBILE CO.	CODEN	04/19/20	52	0	0	\$0	\$0
ESCAMBIA	FREE-	04/23/20	52	0	0	\$0	\$0
CO.	MANVILLE						·
ESCAMBIA	OSAKA	04/23/20	52	0	0	\$0	\$0
CO.							
ESCAMBIA	FREE-	04/23/20	52	0	0	\$0	\$0
CO.	MANVILLE	0.1/2.2/2.0				4.0	4.0
ESCAMBIA	APPLETON	04/23/20	61	0	0	\$0	\$0
CO. ESCAMBIA	PARKER SPGS	04/23/20	52	0	0	\$0	\$0
CO.	PARKER SPGS	04/23/20	32	U	0	\$0	\$0
MOBILE CO.	CITRONELLE	04/23/20	52	0	0	\$0	\$0
MOBILE CO.	SATSUMA	04/23/20	52	0	0	\$0	\$0
BALDWIN CO.	BAY MINETTE	05/27/20	52	0	0	\$0	\$0
BALDWIN CO.	BAY MINETTE	05/27/20	52	0	0	\$0	\$0
BALDWIN CO.	BAY MINETTE	05/27/20	52	0	0	\$0	\$0
BALDWIN CO.	POINT CLEAR	06/23/20	52	0	0	\$0	\$0
ESCAMBIA CO.	KIRKLAND	06/26/20	52	0	0	\$0	\$0
BALDWIN CO.	DAPHNE	07/01/20	52	0	0	\$0	\$0
BALDWIN CO.	MONTROSE	07/01/20	52	0	0	\$0	\$0
BALDWIN CO.	PARK CITY	07/12/20	50	0	0	\$0	\$0
BALDWIN CO.	FAIRHOPE	07/12/20	50	0	0	\$0	\$0
ESCAMBIA CO.	BREWTON	07/12/20	52	0	0	\$0	\$0
MOBILE CO.	MOBILE	07/12/20	50	0	0	\$0	\$0
MOBILE CO.	MON LOUIS	07/12/20	50	0	0	\$0	\$0
MOBILE CO.	DAUPHIN IS	07/12/20	50	0	0	\$0	\$0
MOBILE CO.	PRICHARD	08/11/20	52	0	0	\$0	\$0
MOBILE CO.	DIXON COR- NER	10/10/20	50	0	0	\$0	\$0
Totals				0	27	\$11,726,500	\$0

Source: NOAA Storm Events Database

Table 3.20 Division A Hail Occurrences 2014-2019

Name	Location	Date	Magnitude	Deaths	Injuries	Property Damage	Crop Damage
BALDWIN CO.	Tensaw	02/03/95	0.75	0	0	\$0	0
ESCAMBIA CO.	McCullough	02/03/95	1.75	0	0	\$0	0
BALDWIN CO.	Lottie	02/17/95	0.75	0	0	\$0	0
BALDWIN CO.	Daphne	03/15/95	1.75	0	0	\$0	0
BALDWIN CO.	Spanish Fort	03/15/95	1.75	0	0	\$0	0
BALDWIN CO.	Stapleton	03/15/95	0.88	0	0	\$0	0
BALDWIN CO.	Bay Minette	03/15/95	0.75	0	0	\$0	0
BALDWIN CO.	Bay Minette	03/15/95	0.75	0	0	\$0	0
BALDWIN CO.	Bay Minette	03/15/95	0.75	0	0	\$0	0
BALDWIN CO.	Bay Minette	03/15/95	0.88	0	0	\$0	0
MOBILE CO.	Mobile	03/15/95	0.75	0	0	\$0	0
BALDWIN CO.	Gulf Shores	04/11/95	0.75	0	0	\$0	0
BALDWIN CO.	Gulf Shores	04/11/95	0.88	0	0	\$1,000	0
MOBILE CO. BALDWIN	Dauphin Is.	05/10/95	1	0	0	\$300	0
CO. MOBILE	Gulf Shores Dauphin Island	05/11/95	0.75	0	0	\$0	0
CO. MOBILE	Citronelle	05/29/95	0.75	0	0	\$0	0
CO. MOBILE	Mobile	12/18/95	0.75	0	0	\$0	0
CO. MOBILE	Mobile	12/18/95	0.75	0	0	\$0	0
CO. BALDWIN	BAY MINETTE	02/19/96	1.75	0	0	\$0	0
CO. BALDWIN	ROBERTSDALE	03/18/96	1.75	0	0	\$0	0
CO.						·	
MOBILE CO.	CITRONELLE	03/18/96	0.75	0	0	\$0 \$0	0
MOBILE CO.	SARALAND	03/18/96		0	0	·	0
MOBILE CO.	THEODORE THE MANS CORNER	03/30/96	1	0	0	\$0	0
MOBILE CO.	TILLMANS CORNER	03/30/96	0.88	0	0	\$0	0

Name	Location	Date	Magnitude	Deaths	Injuries	Property Damage	Crop Damage
BALDWIN CO.	ELBERTA	04/14/96	1.75	0	0	\$0	0
BALDWIN CO.	ROBERTSDALE	04/14/96	0.75	0	0	\$0	0
MOBILE CO.	IRVINGTON	04/14/96	0.75	0	0	\$0	0
MOBILE CO.	DAUPHIN IS	04/14/96	0.75	0	0	\$0	0
ESCAMBIA CO.	ATMORE	04/29/96	0.75	0	0	\$0	0
BALDWIN CO.	BAY MINETTE	05/23/96	1.75	0	0	\$0	0
MOBILE CO.	CITRONELLE	05/24/96	0.75	0	0	\$0	0
MOBILE CO.	SEMMES	07/09/96	0.75	0	0	\$0	0
MOBILE CO.	TILLMANS CORNER	08/08/96	0.75	0	0	\$0	0
BALDWIN CO.	BAY MINETTE	08/25/96	0.75	0	0	\$0	0
BALDWIN CO.	TENSAW	12/12/96	0.75	0	0	\$0	0
MOBILE CO.	CITRONELLE	12/12/96	0.75	0	0	\$0	0
MOBILE CO.	WILMER	01/08/97	0.75	0	0	\$0	0
BALDWIN CO.	FAIRHOPE	01/24/97	1.75	0	0	\$0	0
BALDWIN CO.	SILVERHILL	01/24/97	1.75	0	0	\$0	0
BALDWIN CO.	ROBERTSDALE	01/24/97	1.75	0	0	\$0	0
BALDWIN CO.	ORANGE BEACH	01/24/97	0.75	0	0	\$0	0
BALDWIN CO.	FAIRHOPE	01/24/97	0.75	0	0	\$0	0
BALDWIN CO.	FAIRHOPE	01/24/97	0.75	0	0	\$0	0
BALDWIN CO.	ORANGE BEACH	01/24/97	0.75	0	0	\$0	0
MOBILE CO.	GRAND BAY	01/24/97	0.75	0	0	\$0	0
MOBILE CO.	THEODORE	01/24/97	2	0	0	\$0	0
MOBILE CO.	BELLEFONTAINE	01/24/97	0.75	0	0	\$0	0
MOBILE CO.	MOBILE BATES FLD	01/24/97	0.75	0	0	\$0	0
MOBILE CO.	MOBILE BROOKLEY FLD	01/24/97	0.75	0	0	\$0	0
MOBILE CO.	DAUPHIN IS	01/24/97	0.75	0	0	\$0	0

Name	Location	Date	Magnitude	Deaths	Injuries	Property Damage	Crop Damage
BALDWIN CO.	STOCKTON	04/21/97	1	0	0	\$0	0
BALDWIN CO.	BAY MINETTE	04/21/97	1.75	0	0	\$0	0
MOBILE CO.	MT VERNON	04/21/97	1.75	0	0	\$1,000	0
MOBILE CO.	MT VERNON	04/21/97	1.75	0	0	\$0	0
BALDWIN CO.	STAPLETON	04/22/97	1	0	0	\$0	0
BALDWIN CO.	BAY MINETTE	04/22/97	0.75	0	0	\$0	0
BALDWIN CO.	STOCKTON	04/22/97	0.75	0	0	\$0	0
BALDWIN CO.	ROBERTSDALE	04/22/97	0.75	0	0	\$0	0
MOBILE CO.	CITRONELLE	04/22/97	0.75	0	0	\$0	0
MOBILE CO.	SARALAND	05/15/97	1.75	0	0	\$0	0
ESCAMBIA CO.	WALLACE	05/23/97	0.75	0	0	\$0	0
BALDWIN CO.	CHRYSLER	05/27/97	0.75	0	0	\$0	0
ESCAMBIA CO.	FLOMATON	05/27/97	0.75	0	0	\$0	0
MOBILE CO.	CITRONELLE	06/20/97	0.75	0	0	\$0	0
MOBILE CO.	TANNER WILLIAMS	11/01/97	0.75	0	0	\$0	0
BALDWIN CO.	SEMINOLE	11/06/97	1.75	0	0	\$2,000	0
MOBILE CO.	TILLMANS CORNER	12/26/97	0.75	0	0	\$0	0
MOBILE CO.	CITRONELLE	01/22/98	0.75	0	0	\$0	0
MOBILE CO.	ALABAMA PORT	01/22/98	0.75	0	0	\$0	0
MOBILE CO.	TANNER WILLIAMS	02/22/98	0.75	0	0	\$0	0
BALDWIN CO.	STOCKTON	03/05/98	0.88	0	0	\$0	0
BALDWIN CO.	PERDIDO	03/05/98	0.75	0	0	\$0	0
ESCAMBIA CO.	POARCH	03/05/98	0.75	0	0	\$0	0
MOBILE CO.	SARALAND	03/05/98	1	0	0	\$0	0
MOBILE CO.	CREOLA	03/05/98	0.88	0	0	\$0	0
MOBILE CO.	BAYOU LA BATRE	03/07/98	0.75	0	0	\$0	0

Name	Location	Date	Magnitude	Deaths	Injuries	Property Damage	Crop Damage
ESCAMBIA CO.	BREWTON	03/08/98	0.75	0	0	\$0	0
BALDWIN CO.	LATHAM	04/08/98	0.75	0	0	\$0	0
BALDWIN CO.	LITTLE RIVER	04/08/98	0.75	0	0	\$0	0
MOBILE CO.	CHASTANG	04/08/98	0.75	0	0	\$0	0
BALDWIN CO.	LITTLE RIVER	04/17/98	1	0	0	\$0	0
BALDWIN CO.	LITTLE RIVER	04/17/98	1	0	0	\$0	0
MOBILE CO.	CITRONELLE	04/17/98	0.75	0	0	\$0	0
ESCAMBIA CO.	APPLETON	04/22/98	1.75	0	0	\$0	0
MOBILE CO.	PRICHARD	05/02/98	1	0	0	\$0	0
BALDWIN CO.	BAY MINETTE	05/03/98	0.75	0	0	\$0	0
BALDWIN CO.	BAY MINETTE	05/03/98	1.75	0	0	\$0	0
BALDWIN CO.	BAY MINETTE	05/03/98	0.75	0	0	\$0	0
ESCAMBIA CO.	BREWTON	05/03/98	0.75	0	0	\$0	0
MOBILE CO.	SARALAND	05/03/98	0.88	0	0	\$0	0
MOBILE CO.	MT VERNON	05/03/98	1.75	0	0	\$0	0
MOBILE CO.	CITRONELLE	05/03/98	0.75	0	0	\$0	0
MOBILE CO.	DAUPHIN IS	05/06/98	1.75	0	0	\$0	0
ESCAMBIA CO.	ATMORE	06/21/98	1.75	0	0	\$6,000	0
BALDWIN CO.	LITTLE RIVER	08/30/98	0.75	0	0	\$0	0
BALDWIN CO.	STAPLETON	01/09/99	0.75	0	0	\$0	0
BALDWIN CO.	PERDIDO	03/09/99	1	0	0	\$0	0
BALDWIN CO.	ROBERTSDALE	03/09/99	0.75	0	0	\$0	0
ESCAMBIA CO.	DIXIE	04/29/99	0.75	0	0	\$0	0
MOBILE CO.	BAYOU LA BATRE	04/29/99	1	0	0	\$0	0
BALDWIN CO.	FT MORGAN	05/04/99	0.75	0	0	\$0	0
BALDWIN CO.	STAPLETON	05/04/99	0.75	0	0	\$0	0

Name	Location	Date	Magnitude	Deaths	Injuries	Property Damage	Crop Damage
ESCAMBIA CO.	BREWTON	05/18/99	1.5	0	0	\$0	0
MOBILE CO.	SPRING HILL	05/23/99	1	0	0	\$0	0
ESCAMBIA CO.	BRADLEY	05/26/99	0.88	0	0	\$0	0
MOBILE CO.	BUCKS	05/26/99	0.75	0	0	\$0	0
MOBILE CO.	GRAND BAY	05/28/99	0.88	0	0	\$0	0
BALDWIN CO.	DAPHNE	06/08/99	0.88	0	0	\$0	0
BALDWIN CO.	LOXLEY	07/30/99	0.75	0	0	\$0	0
MOBILE CO.	TILLMANS CORNER	07/30/99	0.88	0	0	\$0	0
MOBILE CO.	CODEN	08/14/99	0.88	0	0	\$0	0
MOBILE CO.	MT VERNON	08/20/99	0.88	0	0	\$0	0
BALDWIN CO.	FT MORGAN	01/24/00	0.75	0	0	\$0	0
MOBILE CO.	DAUPHIN IS	01/24/00	0.88	0	0	\$0	0
BALDWIN CO.	PERDIDO	03/29/00	0.88	0	0	\$0	0
MOBILE CO.	DAUPHIN IS	03/29/00	1.75	0	0	\$0	0
MOBILE CO.	DAUPHIN IS	03/29/00	0.75	0	0	\$0	0
MOBILE CO.	(MOB)MOBILE BATES FL	04/24/00	1	0	0	\$0	0
MOBILE CO.	SEMMES	04/26/00	1	0	0	\$0	0
MOBILE CO.	MOBILE	04/26/00	1	0	0	\$5,000	0
MOBILE CO.	CITRONELLE	05/13/00	1	0	0	\$0	0
ESCAMBIA CO.	CANOE	07/11/00	0.75	0	0	\$0	0
MOBILE CO.	MOBILE	07/11/00	0.75	0	0	\$0	0
BALDWIN CO.	ROSINTON	07/21/00	1	0	0	\$0	0
MOBILE CO.	GULF CREST	07/22/00	0.88	0	0	\$0	0
MOBILE CO.	TILLMANS CORNER	07/22/00	0.75	0	0	\$0	0
MOBILE CO.	THEODORE	07/22/00	0.75	0	0	\$0	0
BALDWIN CO.	LOXLEY	08/09/00	0.75	0	0	\$0	0

Name	Location	Date	Magnitude	Deaths	Injuries	Property Damage	Crop Damage
MOBILE CO.	MOBILE	08/09/00	0.75	0	0	\$0	0
MOBILE CO.	CITRONELLE	08/10/00	1.75	0	0	\$0	0
MOBILE CO.	BUCKS	08/25/00	1.75	0	0	\$0	0
ESCAMBIA CO.	BREWTON	08/27/00	1.75	0	0	\$0	0
BALDWIN CO.	LOXLEY	09/05/00	0.88	0	0	\$0	0
MOBILE CO.	GRAND BAY	09/05/00	0.88	0	0	\$0	0
BALDWIN CO.	DAPHNE	03/12/01	0.75	0	0	\$0	0
ESCAMBIA CO.	ATMORE	04/04/01	1.75	0	0	\$0	0
ESCAMBIA CO.	CANOE	04/04/01	1.75	0	0	\$7,000	0
MOBILE CO.	DAUPHIN IS	04/24/01	0.75	0	0	\$0	0
MOBILE CO.	SATSUMA	05/02/01	1	0	0	\$0	0
MOBILE CO.	WILMER	05/02/01	0.88	0	0	\$0	0
MOBILE CO.	KUSHLA	07/12/01	1	0	0	\$0	0
BALDWIN CO.	DAPHNE	04/03/02	1	0	0	\$0	0
BALDWIN CO.	DAPHNE	04/03/02	1	0	0	\$0	0
BALDWIN CO.	LOXLEY	05/29/02	1	0	0	\$0	0
BALDWIN CO.	ROBERTSDALE	05/29/02	0.88	0	0	\$0	0
BALDWIN CO.	ROBERTSDALE	05/29/02	0.88	0	0	\$0	0
ESCAMBIA CO.	BREWTON	07/03/02	0.75	0	0	\$0	0
MOBILE CO.	THEODORE	08/02/02	0.75	0	0	\$0	0
MOBILE CO.	SARALAND	10/20/02	0.88	0	0	\$0	0
MOBILE CO.	MOBILE	12/31/02	0.75	0	0	\$0	0
ESCAMBIA CO.	BREWTON	03/09/03	1	0	0	\$0	0
ESCAMBIA CO.	BREWTON	03/09/03	1	0	0	\$0	0
BALDWIN CO.	FOLEY	03/12/03	0.75	0	0	\$0	0
BALDWIN CO.	ELBERTA	03/12/03	1	0	0	\$0	0

Name	Location	Date	Magnitude	Deaths	Injuries	Property Damage	Crop Damage
BALDWIN CO.	SEMINOLE	03/13/03	0.75	0	0	\$0	0
BALDWIN CO.	BAY MINETTE	03/13/03	1	0	0	\$0	0
MOBILE CO.	(MOB)MOBILE BATES FL	03/13/03	0.75	0	0	\$0	0
MOBILE CO.	SARALAND	03/13/03	0.88	0	0	\$0	0
ESCAMBIA CO.	ATMORE	03/14/03	1.75	0	0	\$4,000	0
BALDWIN CO.	BAY MINETTE	04/25/03	1.75	0	0	\$5,000	0
BALDWIN CO.	STAPLETON	04/25/03	0.75	0	0	\$0	0
BALDWIN CO.	LOXLEY	04/25/03	0.75	0	0	\$0	0
ESCAMBIA CO.	ATMORE	04/25/03	0.75	0	0	\$0	0
MOBILE CO.	CITRONELLE	04/25/03	0.75	0	0	\$0	0
MOBILE CO.	CITRONELLE	04/25/03	1.75	0	0	\$5,000	0
MOBILE CO.	CREOLA	04/25/03	1	0	0	\$0	0
MOBILE CO.	SATSUMA	04/25/03	1.75	0	0	\$5,000	0
BALDWIN CO.	LATHAM	05/02/03	1.75	0	0	\$0	0
BALDWIN CO.	STOCKTON	05/02/03	1.75	0	0	\$0	0
BALDWIN CO.	DYAS	05/02/03	0.75	0	0	\$0	0
BALDWIN CO.	LITTLE RIVER	05/02/03	0.75	0	0	\$0	0
ESCAMBIA CO.	HUXFORD	05/02/03	1	0	0	\$0	0
ESCAMBIA CO.	WALLACE	05/02/03	0.75	0	0	\$0	0
ESCAMBIA CO.	ATMORE	05/02/03	0.75	0	0	\$0	0
BALDWIN CO.	LITTLE RIVER	05/03/03	1	0	0	\$0	0
BALDWIN CO.	LITTLE RIVER	05/03/03	0.75	0	0	\$0	0
BALDWIN CO.	SEMINOLE	05/03/03	0.75	0	0	\$0	0
ESCAMBIA CO.	FOSHEE	05/03/03	1	0	0	\$0	0
ESCAMBIA CO.	POARCH	05/03/03	0.75	0	0	\$0	0
MOBILE CO.	MT VERNON	05/03/03	0.75	0	0	\$0	0

Name	Location	Date	Magnitude	Deaths	Injuries	Property Damage	Crop Damage
MOBILE CO.	WILMER	05/03/03	1.75	0	0	\$0	0
MOBILE CO.	SEMMES	05/03/03	1.75	0	0	\$0	0
MOBILE CO.	GRAND BAY	05/03/03	0.88	0	0	\$0	0
BALDWIN CO.	DAPHNE	07/12/03	0.75	0	0	\$0	0
BALDWIN CO.	FOLEY	07/17/03	0.88	0	0	\$0	0
BALDWIN CO.	GULF SHRS	07/17/03	1	0	0	\$0	0
MOBILE CO.	CODEN	07/21/03	0.88	0	0	\$0	0
BALDWIN CO.	BAY MINETTE	08/06/03	1.75	0	0	\$0	0
MOBILE CO.	SEMMES	08/06/03	0.75	0	0	\$0	0
ESCAMBIA CO.	ATMORE	05/18/04	0.75	0	0	\$0	0
MOBILE CO.	WILMER	06/01/04	1.75	0	0	\$0	0
MOBILE CO.	SEMMES	07/03/04	0.75	0	0	\$0	0
BALDWIN CO.	PERDIDO	03/26/05	1	0	0	\$0	0
MOBILE CO.	AXIS	03/26/05	0.75	0	0	\$0	0
BALDWIN CO.	LOXLEY	03/27/05	0.75	0	0	\$0	0
BALDWIN CO.	VAUGHN	03/27/05	1	0	0	\$0	0
MOBILE CO.	DAWES	03/31/05	0.75	0	0	\$0	0
MOBILE CO.	MOBILE	04/01/05	0.88	0	0	\$0	0
MOBILE CO.	DAUPHIN IS	04/01/05	0.88	0	0	\$0	0
MOBILE CO.	(MOB)MOBILE BATES FL	04/01/05	0.88	0	0	\$0	0
MOBILE CO.	(MOB)MOBILE BATES FL	04/01/05	1	0	0	\$0	0
MOBILE CO.	TANNER WILLIAMS	04/01/05	1	0	0	\$0	0
BALDWIN CO.	FOLEY	04/06/05	0.75	0	0	\$0	0
ESCAMBIA CO.	BREWTON	04/21/05	0.88	0	0	\$0	0
BALDWIN CO.	BAY MINETTE	04/22/05	1	0	0	\$0	0
BALDWIN CO.	BAY MINETTE	04/22/05	0.75	0	0	\$0	0

Name	Location	Date	Magnitude	Deaths	Injuries	Property Damage	Crop Damage
MOBILE CO.	CITRONELLE	04/22/05	1.75	0	0	\$4,000	0
BALDWIN CO.	WHITEHOUSE FORKS	04/26/05	1.75	0	0	\$4,000	0
MOBILE CO.	SARALAND	04/26/05	0.88	0	0	\$0	0
BALDWIN CO.	ELBERTA	04/30/05	0.75	0	0	\$0	0
MOBILE CO.	SEMMES	07/08/05	0.88	0	0	\$0	0
MOBILE CO.	BAYOU LA BATRE	01/01/06	0.88	0	0	\$0	0
MOBILE CO.	TILLMANS CORNER	01/01/06	1.5	0	0	\$0	0
MOBILE CO.	ST ELMO	01/01/06	1	0	0	\$0	0
BALDWIN CO.	PERDIDO BEACH	01/13/06	0.75	0	0	\$0	0
BALDWIN CO.	FAIRHOPE	04/21/06	0.75	0	0	\$0	0
BALDWIN CO.	SEMINOLE	04/25/06	0.75	0	0	\$0	0
BALDWIN CO.	WHITEHOUSE FORKS	05/08/06	0.88	0	0	\$0	0
ESCAMBIA CO.	BREWTON	05/08/06	1	0	0	\$0	0
MOBILE CO.	GULF CREST	05/08/06	1	0	0	\$0	0
BALDWIN CO.	SPANISH FT	05/09/06	0.88	0	0	\$0	0
BALDWIN CO.	MALBIS	05/09/06	0.75	0	0	\$0	0
BALDWIN CO.	CROSSROADS	05/09/06	0.75	0	0	\$0	0
BALDWIN CO.	WHITEHOUSE FORKS	05/09/06	0.75	0	0	\$0	0
ESCAMBIA CO.	BREWTON	05/09/06	2	0	0	\$40,000	0
MOBILE CO.	MOBILE	05/09/06	0.88	0	0	\$0	0
BALDWIN CO.	BAY MINETTE	05/23/06	0.88	0	0	\$0	0
BALDWIN CO.	SILVERHILL	05/29/06	0.75	0	0	\$0	0
MOBILE CO.	(MOB)MOBILE BATES FL	06/02/06	0.88	0	0	\$0	0
BALDWIN CO.	FOLEY	06/23/06	1.75	0	0	\$0	0
MOBILE CO.	SEMMES	06/23/06	0.75	0	0	\$0	0
BALDWIN CO.	LOXLEY	08/08/06	0.75	0	0	\$0	0

Name	Location	Date	Magnitude	Deaths	Injuries	Property Damage	Crop Damage
BALDWIN CO.	ELBERTA	08/09/06	1.75	0	0	\$0	0
MOBILE CO.	SEMMES	08/09/06	0.88	0	0	\$0	0
MOBILE CO.	SATSUMA	08/09/06	1	0	0	\$0	0
MOBILE CO.	CITRONELLE	02/13/07	0.75	0	0	\$0	0
MOBILE CO.	GRAND BAY	02/13/07	0.75	0	0	\$0	0
MOBILE CO.	DAUPHIN IS	04/10/07	0.88	0	0	\$0	0
BALDWIN CO.	PERDIDO	05/11/07	0.75	0	0	\$0	0
MOBILE CO.	(MOB)MOBILE BATES FL	05/11/07	1	0	0	\$0	0
MOBILE CO.	THEODORE	05/11/07	0.88	0	0	\$0	0
MOBILE CO.	MOBILE BROOKLEY FLD	05/12/07	0.88	0	0	\$0	0
MOBILE CO.	IRVINGTON	05/13/07	0.88	0	0	\$0	0
BALDWIN CO.	LOXLEY	06/09/07	1.75	0	0	\$8,000	0
BALDWIN CO.	MALBIS	06/27/07	1	0	0	\$0	0
BALDWIN CO.	DAPHNE	02/12/08	0.88	0	0	\$0	0
MOBILE CO.	WHISTLER	02/12/08	0.88	0	0	\$0	0
BALDWIN CO.	FOLEY	05/25/08	1	0	0	\$0	0
MOBILE CO.	IRVINGTON	06/17/08	0.88	0	0	\$10,000	0
MOBILE CO.	GULF CREST	06/17/08	1.25	0	0	\$2,000	0
MOBILE CO.	TILLMANS CORNER	06/22/08	0.88	0	0	\$10,000	0
MOBILE CO.	SOUTH ORCHARD	06/22/08	0.75	0	0	\$0	0
ESCAMBIA CO.	EAST BREWTON	06/26/08	1	0	0	\$0	0
MOBILE CO.	SEVEN HILLS	07/27/08	1.25	0	0	\$0	0
BALDWIN CO.	BAY MINETTE	12/24/08	1	0	0	\$0	0
MOBILE CO.	CITRONELLE	01/03/09	0.88	0	0	\$0	0
BALDWIN CO.	ELSANOR	03/27/09	1.75	0	0	\$0	0
MOBILE CO.	MOBILE BATES FLD	03/28/09	0.88	0	0	\$0	0

Name	Location	Date	Magnitude	Deaths	Injuries	Property Damage	Crop Damage
MOBILE CO.	WILMER	03/31/09	1	0	0	\$0	0
MOBILE CO.	SARALAND	03/31/09	1	0	0	\$0	0
ESCAMBIA CO.	BREWTON	04/02/09	0.88	0	0	\$0	0
BALDWIN CO.	LOXLEY	04/13/09	0.75	0	0	\$0	0
ESCAMBIA CO.	WALLACE	04/13/09	1.75	0	0	\$0	0
ESCAMBIA CO.	BREWTON	04/13/09	0.75	0	0	\$0	0
MOBILE CO.	CITRONELLE	05/05/09	0.88	0	0	\$0	0
MOBILE CO.	GULF CREST	05/12/09	0.88	0	0	\$0	0
MOBILE CO.	CITRONELLE	05/14/09	0.75	0	0	\$0	0
MOBILE CO.	CITRONELLE	04/24/10	1	0	0	\$0	0
MOBILE CO.	CODEN	04/24/10	2	0	0	\$0	0
MOBILE CO.	WHISTLER	05/29/10	0.88	0	0	\$0	0
ESCAMBIA CO.	APPLETON	08/04/10	1	0	0	\$0	0
MOBILE CO.	WILMER	10/24/10	0.88	0	0	\$0	0
MOBILE CO.	CITRONELLE	03/08/11	1	0	0	\$0	0
MOBILE CO.	CITRONELLE	03/09/11	1	0	0	\$0	0
MOBILE CO.	GEORGETOWN	05/26/11	1.75	0	0	\$0	0
BALDWIN CO.	FOLEY	06/06/11	1.75	0	0	\$0	0
BALDWIN CO.	SUMMERDALE	06/06/11	1	0	0	\$0	0
BALDWIN CO.	SUMMERDALE	06/06/11	1.75	0	0	\$0	0
MOBILE CO.	GRAND BAY	06/06/11	1	0	0	\$0	0
MOBILE CO.	MOBILE BATES FLD	06/16/11	1	0	0	\$0	0
MOBILE CO.	MOBILE BATES FLD	06/16/11	1	0	0	\$0	0
MOBILE CO.	MOBILE BATES FLD	06/16/11	1.5	0	0	\$0	0
BALDWIN CO.	LOXLEY	07/02/11	1	0	0	\$0	0
MOBILE CO.	CODEN	08/12/11	0.75	0	0	\$0	0

Name	Location	Date	Magnitude	Deaths	Injuries	Property Damage	Crop Damage
BALDWIN CO.	FOLEY	05/21/12	1.75	0	0	\$0	0
MOBILE CO.	BELLEFONTAINE	05/21/12	1	0	0	\$0	0
MOBILE CO.	TILLMANS CORNER	05/30/12	1	0	0	\$0	0
MOBILE CO.	MOBILE BATES FLD	05/30/12	1.25	0	0	\$0	0
MOBILE CO.	MOBILE BROOKLEY FLD	05/30/12	1.25	0	0	\$0	0
BALDWIN CO.	LOXLEY	06/05/12	1	0	0	\$0	0
ESCAMBIA CO.	BREWTON	07/17/12	1	0	0	\$0	0
ESCAMBIA CO.	BREWTON	07/17/12	1	0	0	\$0	0
BALDWIN CO.	DAPHNE	05/01/13	1	0	0	\$0	0
MOBILE CO.	SATSUMA	03/29/14	1.25	0	0	\$0	0
MOBILE CO.	DAWES	04/29/14	1	0	0	\$10,000	0
MOBILE CO.	CITRONELLE	06/07/14	0.88	0	0	\$0	0
ESCAMBIA CO.	BREWTON	06/08/14	0.88	0	0	\$0	0
ESCAMBIA CO.	BREWTON	06/08/14	1.75	0	0	\$0	0
MOBILE CO.	MOBILE	12/23/14	0.88	0	0	\$0	0
ESCAMBIA CO.	APPLETON	05/20/15	1	0	0	\$0	0
MOBILE CO.	(MOB)MOBILE BATES FL	06/22/15	0.88	0	0	\$0	0
BALDWIN CO.	FOLEY	06/23/15	1.75	0	0	\$0	0
MOBILE CO.	IRVINGTON	06/23/15	1	0	0	\$0	0
MOBILE CO.	NAVCO	12/23/15	2	0	0	\$0	0
MOBILE CO.	SARALAND	02/15/16	1	0	0	\$0	0
BALDWIN CO.	CROSSROADS	03/17/16	1	0	0	\$0	0
BALDWIN CO.	SPANISH FT	03/17/16	1	0	0	\$0	0
BALDWIN CO.	CROSSROADS	03/17/16	1	0	0	\$0	0
MOBILE CO.	SARALAND	03/17/16	1	0	0	\$0	0
ESCAMBIA CO.	APPLETON	03/31/16	1	0	0	\$0	0

Name	Location	Date	Magnitude	Deaths	Injuries	Property Damage	Crop Damage
BALDWIN CO.	FOLEY	01/21/17	1.75	0	0	\$0	0
BALDWIN CO.	ELBERTA	01/21/17	1.5	0	0	\$0	0
MOBILE CO.	(MOB)MOBILE BATES FL	01/21/17	2	0	0	\$0	0
BALDWIN CO.	FOLEY	01/22/17	2	0	0	\$0	0
BALDWIN CO.	FOLEY	01/22/17	1	0	0	\$0	0
BALDWIN CO.	ELBERTA	02/07/17	1	0	0	\$0	0
MOBILE CO.	DAUPHIN IS	02/07/17	1.75	0	0	\$0	0
MOBILE CO.	WILMER	04/03/17	1	0	0	\$0	0
MOBILE CO.	ORCHARD	06/09/18	1	0	0	\$0	0
MOBILE CO.	(MOB)MOBILE BATES FL	06/09/18	1.25	0	0	\$0	0
ESCAMBIA CO.	ROBERTS	03/25/19	1	0	0	\$0	0
MOBILE CO.	AXIS	06/27/19	1	0	0	\$0	0
MOBILE CO.	TANNER WILLIAMS	05/27/20	1	0	0	\$0	0
MOBILE CO.	SEMMES	05/27/20	1	0	0	\$0	0
BALDWIN CO.	LOXLEY	07/12/20	1.75	0	0	\$0	0
Totals				0	0	\$129,300	0

Source: NOAA Storm Events Database

Table 3.21 Division A Lightning Occurrences 2014-2019

County	Location	Date	Deaths	Injuries	Property	Crop
			_	_	Damage	Damage
BALDWIN CO.	LOXLEY	04/14/96	0	0	\$25,000	0
MOBILE CO.	MOBILE	07/13/96	0	0	\$15,000	0
MOBILE CO.	MOBILE	07/20/96	0	0	\$300,000	0
BALDWIN CO.	BAY MINETTE	08/25/96	0	0	\$0	0
MOBILE CO.	MOBILE	08/28/96	0	0	\$10,000	0
BALDWIN CO.	LOXLEY	01/24/97	0	0	\$90,000	0
MOBILE CO.	BELLEFONTAINE	01/24/97	0	0	\$75,000	0
MOBILE CO.	(BFM)MOBILE BROOKLEY	03/13/97	0	5	\$0	0
MOBILE CO.	MOBILE	05/19/97	0	0	\$15,000	0
MOBILE CO.	DAUPHIN IS	05/28/97	1	0	\$0	0
BALDWIN CO.	ROBERTSDALE	08/09/97	0	0	\$3,000	0
BALDWIN CO.	DAPHNE	01/22/98	0	0	\$100,000	0
MOBILE CO.	MOBILE	03/07/98	1	0	\$0	0
BALDWIN CO.	BAY MINETTE	03/08/98	0	0	\$20,000	0
BALDWIN CO.	BAY MINETTE	07/24/98	0	0	\$60,000	0
MOBILE CO.	MOBILE	07/25/98	0	0	\$10,000	0
MOBILE CO.	MOBILE	08/12/98	0	0	\$10,000	0
BALDWIN CO.	LOXLEY	03/09/99	0	0	\$0	0
BALDWIN CO.	LOXLEY	03/13/99	0	0	\$0	0
MOBILE CO.	MOBILE	07/08/99	0	0	\$5,000	0
BALDWIN CO.	LOXLEY	07/30/99	0	0	\$5,000	0
BALDWIN CO.	ROSINTON	07/30/99	0	0	\$3,000	0
BALDWIN CO.	SILVERHILL	07/30/99	0	0	\$5,000	0
BALDWIN CO.	BELFOREST	07/30/99	0	0	\$5,000	0
BALDWIN CO.	DAPHNE	07/30/99	0	0	\$3,000	0
ESCAMBIA CO.	FLOMATON	08/24/99	0	0	\$10,000	0
MOBILE CO.	MOBILE	06/25/00	0	1	\$0	0
MOBILE CO.	MOBILE	06/25/00	0	1	\$0	0
MOBILE CO.	MOBILE	07/21/00	0	0	\$5,000	0
MOBILE CO.	MOBILE	07/22/00	0	0	\$100,000	0
MOBILE CO.	PRICHARD	09/01/00	0	0	\$5,000	0
BALDWIN CO.	DAPHNE	09/02/00	0	0	\$5,000	0
MOBILE CO.	MOBILE	03/12/01	0	0	\$100,000	0
MOBILE CO.	MOBILE	05/02/01	0	0	\$5,000	0
BALDWIN CO.	BAY MINETTE	05/28/01	0	0	\$25,000	0
MOBILE CO.	EIGHT MILE	05/30/01	0	1	\$0	0
MOBILE CO.	PRICHARD	05/30/01	0	1	\$0	0
BALDWIN CO.	DAPHNE	08/19/01	0	0	\$3,000	0

MOBILE CO.	(MOB)MOBILE	08/28/01	0	0	\$100,000	0
	BATES FL	0 0 1 - 0 1 0 -		Ţ	+-00,000	_
BALDWIN CO.	FT MORGAN	09/08/01	0	0	\$20,000	0
MOBILE CO.	MOBILE	09/23/01	0	1	\$0	0
MOBILE CO.	(MOB)MOBILE BATES FL	06/30/02	0	0	\$85,000	0
MOBILE CO.	BAYOU LA BATRE	07/11/02	0	2	\$0	0
MOBILE CO.	(MOB)MOBILE BATES FL	08/05/02	0	2	\$0	0
MOBILE CO.	(MOB)MOBILE BATES FL	08/16/02	0	1	\$0	0
BALDWIN CO.	BAY MINETTE	08/29/02	0	0	\$30,000	0
MOBILE CO.	TANNER WIL- LIAMS	06/03/03	0	0	\$50,000	0
MOBILE CO.	(MOB)MOBILE BATES FL	06/13/03	0	0	\$20,000	0
ESCAMBIA CO.	APPLETON	07/30/03	0	0	\$3,000	0
MOBILE CO.	SARALAND	08/06/03	0	1	\$0	0
MOBILE CO.	MOBILE	08/06/03	0	0	\$30,000	0
MOBILE CO.	MOBILE	06/06/04	0	1	\$0	0
MOBILE CO.	MOBILE	08/10/04	0	0	\$30,000	0
MOBILE CO.	SARALAND	08/10/04	0	0	\$10,000	0
MOBILE CO.	CHICKASAW	08/10/04	0	0	\$5,000	0
MOBILE CO.	MOBILE	08/10/04	0	0	\$50,000	0
MOBILE CO.	SEVEN HILLS	08/20/04	0	0	\$500,000	0
MOBILE CO.	TILLMANS COR- NER	08/23/04	0	0	\$50,000	0
MOBILE CO.	FOREST HILL	08/30/04	0	1	\$0	0
MOBILE CO.	CITRONELLE	06/07/05	0	0	\$10,000	0
BALDWIN CO.	GULF SHRS	07/23/05	2	0	\$0	0
MOBILE CO.	SEMMES	08/20/05	0	0	\$0	0
MOBILE CO.	THEODORE	08/20/05	0	0	\$25,000	0
BALDWIN CO.	DAPHNE	08/24/05	0	0	\$0	0
MOBILE CO.	SEMMES	04/22/06	0	0	\$800,000	0
BALDWIN CO.	DAPHNE	05/29/06	0	1	\$15,000	0
MOBILE CO.	MOBILE	06/02/06	0	0	\$100,000	0
MOBILE CO.	THEODORE	06/02/06	0	1	\$0	0
BALDWIN CO.	GULF SHRS	07/06/06	0	1	\$0	0
BALDWIN CO.	ELBERTA	07/16/06	1	0	\$0	0
MOBILE CO.	COTTAGE HILL	07/30/06	0	0	\$40,000	0
MOBILE CO.	(MOB)MOBILE BATES FL	08/09/06	0	0	\$40,000	0
BALDWIN CO.	SPANISH FT	08/15/06	0	0	\$100,000	0
MOBILE CO.	MT VERNON	08/15/06	0	0	\$500,000	0
MOBILE CO.	(MOB)MOBILE BATES FL	08/15/06	0	0	\$150,000	0
BALDWIN CO.	DAPHNE	10/17/06	0	0	\$30,000	0

BALDWIN CO.	BELFOREST	05/13/07	0	0	\$60,000	0
MOBILE CO.	PRICHARD	06/19/07	0	0	\$100,000	0
MOBILE CO.	MOBILE	06/27/07	0	0	\$0	0
BALDWIN CO.	FAIRHOPE	07/11/07	0	0	\$250,000	0
MOBILE CO.	MOBILE	07/15/07	0	0	\$16,000	0
BALDWIN CO.	MARLOW	08/09/07	0	1	\$0	0
MOBILE CO.	MOBILE	08/30/07	0	0	\$65,000	0
MOBILE CO.	MOBILE	07/26/08	0	0	\$10,000	0
MOBILE CO.	TILLMANS COR- NER	07/26/08	0	0	\$5,000	0
MOBILE CO.	THEODORE	08/18/08	0	0	\$0	0
ESCAMBIA CO.	WAWBEEK	07/06/09	1	0	\$0	0
BALDWIN CO.	GULF SHRS	08/03/10	0	2	\$0	0
BALDWIN CO.	HURRICANE	08/07/10	1	0	\$0	0
BALDWIN CO.	ELBERTA	08/04/11	0	1	\$0	0
BALDWIN CO.	GULF SHRS	06/10/12	0	1	\$0	0
MOBILE CO.	MOBILE BATES FLD	02/25/13	0	0	\$5,000	0
MOBILE CO.	THEODORE	05/02/13	0	0	\$15,000	0
MOBILE CO.	MOBILE BATES FLD	08/05/13	0	0	\$10,000	0
MOBILE CO.	MOBILE BATES FLD	08/05/13	0	0	\$10,000	0
ESCAMBIA CO.	BREWTON MUNI ARPT	04/27/15	0	0	\$10,000	0
BALDWIN CO.	FOLEY	06/09/15	0	0	\$5,000	0
BALDWIN CO.	FT MORGAN	07/05/15	1	0	\$0	0
MOBILE CO.	MOBILE BATES FLD	07/17/15	0	1	\$0	0
MOBILE CO.	(MOB)MOBILE BATES FL	01/02/17	0	0	\$10,000	0
MOBILE CO.	COTTAGE HILL	01/02/17	0	0	\$10,000	0
BALDWIN CO.	GULF SHRS	08/26/17	1	5	\$0	0
MOBILE CO.	PRICHARD	06/16/19	1	0	\$0	0
BALDWIN CO.	OAK	08/15/19	1	0	\$0	0
Totals			11	32	\$4,391,000	0

Source: NOAA Storm Events Database

Probability of Future Events

AEMA Division A has a high probability of experiencing severe thunderstorms including high winds, lightning, and hail throughout the year. Numerous historical data and documented events within the last few decades lead AEMA Division A to determine that there is a high probability of severe thunderstorm occurrences.

3.2.8. Landslides

Background

Landslides are the downward and outward movement of soil and rocks under the influence of gravity (http://www.gsa.state.al.us/). Naturally induced landslides occur as a result of weakened rock composition, heavy rain, changes in ground water levels, and seismic activity. Typically, areas that are prone to landslides are on or at the base of steep slopes, base of drainage channels, developed hillsides where leach field septic systems are used.

Locations Affected

Figures 3.53 - 3.55 are maps of the planning area illustrating susceptibility to landslides. By examining the map, one can see that the majority of the area is classified as having low susceptibility. Susceptibility is defined as the probable degree of response of rocks and soils to natural or artificial cutting of slopes, or to anomalously high precipitation. Low susceptibility translates to less than 1.5% of the planning being affected by landslides.

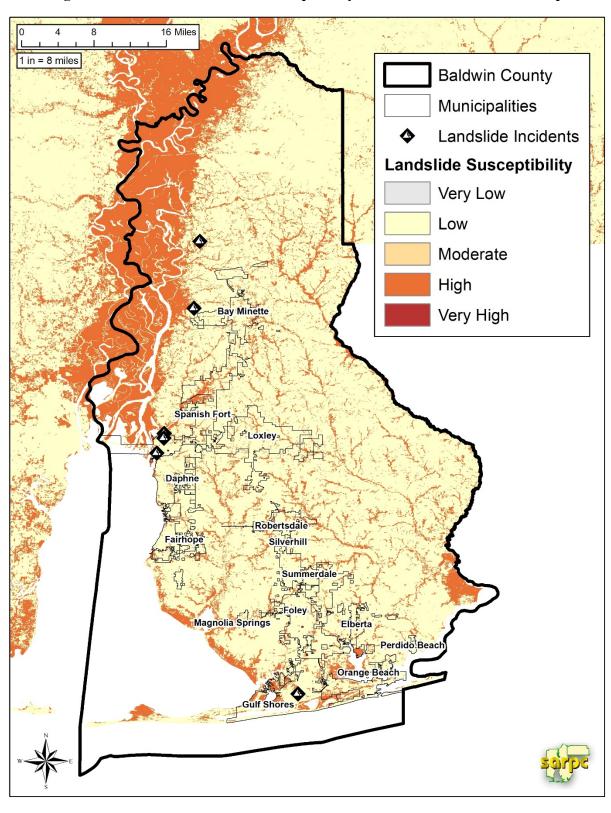


Figure 3.53 Baldwin Landslide Susceptibility and Historic Occurrence Map

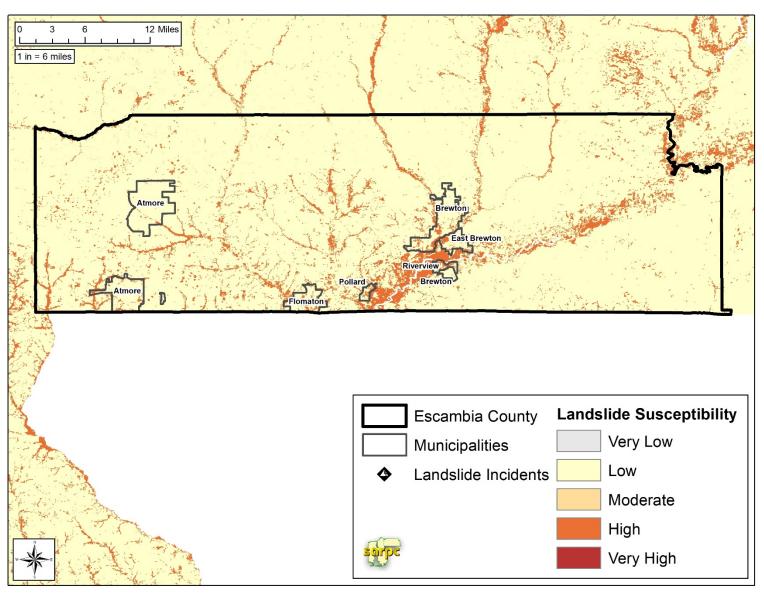


Figure 3.54 Escambia Landslide Susceptibility and Historic Occurrence Map

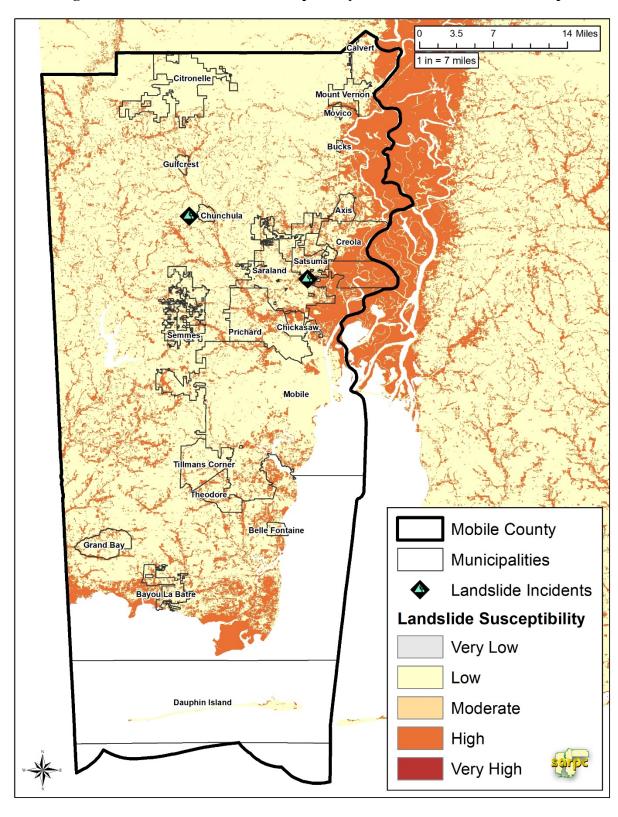


Figure 3.55 Mobile Landslide Susceptibility and Historic Occurrence Map

Extent

There is no widely accepted magnitude scale for landslides. Defining the extent of landslides is subjective and could vary greatly. Due to low susceptibility throughout the planning area, the extent of landslide incidents are estimated to be primarily isolated damages to structures and infrastructure.

Overall, the region has experienced very few landslides. The extent is small, and there are no recorded estimates for loss due to landslides. The most susceptible area is located in Spanish Ford. The bluffs located along the eastern shore of the Mobile Bay are slowly receding due to wave erosion causing a substantial threat to a number of homes along the bluff. The City of Spanish Fort and the State of Alabama applied for funds to stabilize the bluff to reduce future property and infrastructure damage that could be caused by a landslide in this area.

Table 3.22 Landslide Summary by Jurisdiction

	# of Landslides	Extent	Probability
Baldwin County	13	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Bay Minette	1	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Daphne	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Elberta	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Fairhope	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Foley	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Gulf Shores	1	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Loxley	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Magnolia Springs	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Orange Beach	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Perdido Beach	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Robertsdale	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Silverhill	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Spanish Fort	3	<2 acres affected per incidence, how- ever, where incidents are occurring, damage to structures and infrastructure is possible	Moderate

	# of Landslides	Extent	Probability
Summerdale	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Escambia County	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Atmore	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Brewton	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
East Brewton	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Flomaton	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Pollard	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Riverview	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Mobile County	2	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Bayou La Batre	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Chickasaw	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Citronelle	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Creola	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Dauphin Island	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Mobile	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Mount Vernon	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Prichard	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Saraland	1	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Satsuma	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Semmes	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low

Historical Occurrences

Historic occurrence data from GSA is included in Figure 3.7. It is important to note that there is no date listed on the GSA map detailing time frame, so it is impossible to determine the time period over which these events occurred. Mobile and Baldwin counties have historic incidences, but there

are no documented incidences in Escambia County. There is no specific documentation available for these events, leading to the belief that each incident was very localized and minor in nature.

Probability of Future Events

The entire planning region has low susceptibility to landslide incidences. Based on susceptibility and historical data, the assessed susceptibility to landslide events is low.

PAGE INTENTIONALLY LEFT BLANK.

3.2.8.1. Land Subsidence/Sinkholes

Background

Land subsidence occurs when large amounts of groundwater have been withdrawn from certain types of rocks, such as fine-grained sediments. The rock compacts because the water is partly responsible for holding the ground up. When the water is withdrawn, the rocks collapse. Subsidence can occur over large areas and in more localized locations. Smaller localized areas of subsidence are referred to as sinkholes.

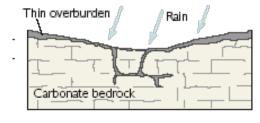
Sinkholes can form from a variety of causes including natural and man-made activities and include ground collapse related to:

- Naturally dissolved voids in rock
- A drop in the water table from drought or pumping of nearby wells
- Heavy construction or weight at the ground surface
- Drainage problems
- Collapse of underground mines
- Excessive rainfall.

There are three types of sinkholes. A description and illustration (Figure 3.55) of each follow:

Figure 3.56 Types of Sinkholes

Dissolution:



Rainfall and surface water percolate through joints in the limestone. Dissolved carbonate rock is carried away from the surface and a small depression gradually forms.



On exposed carbonate surfaces, a depression may focus surface drainage, accelerating the dissolution process. Debris carried into the developing sinkhole may plug the outflow, ponding water and creating wetlands.

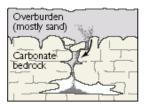
Cover subsidence:

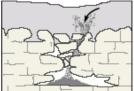
Granular sediments spall into secondary openings in the underlying carbonate rocks.

A column of overlying sedi- Dissolution and infilling con- The slow downward erosion ments settles into the vacated spaces (a process termed "piping").

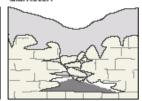
tinue, forming a noticable depression in the land surface.

eventually forms small surface depressions I inch to several feet in depth and diameter.









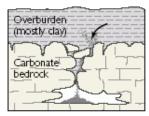
Cover collapse:

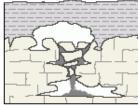
Sediments spall into a cavity. As spalling continues, the

cohesive covering sediments form a structural arch.

The cavity migrates upward by progressive roof collapse.

The cavity eventually breaches the ground surface, creating sudden and dramatic sinkholes.









Source: United States Geological Survey. http://water.usgs.gov/edu/sinkholes.html. Last Accessed on 1/1/20.

Locations Affected

Sinkholes are more prevalent in North Alabama, but there are areas of susceptibility and incidence in Division A. Figure 3.57 and the following county detail maps (Figures 3.58 to 3.81) illustrate areas in the division with karst topography and show topographic depression sites. Karst topography is a landscape characterized by numerous caves, sinkholes, fissures, and underground streams. These features usually occur in areas with underlying carbonate bedrock and present throughout the division but are widespread in the southern portion. Karst Type is provided by the USGS as a hosted layer (2014). When no karst type is present in map extent, this signifies a lack of karst topography for the area in question.

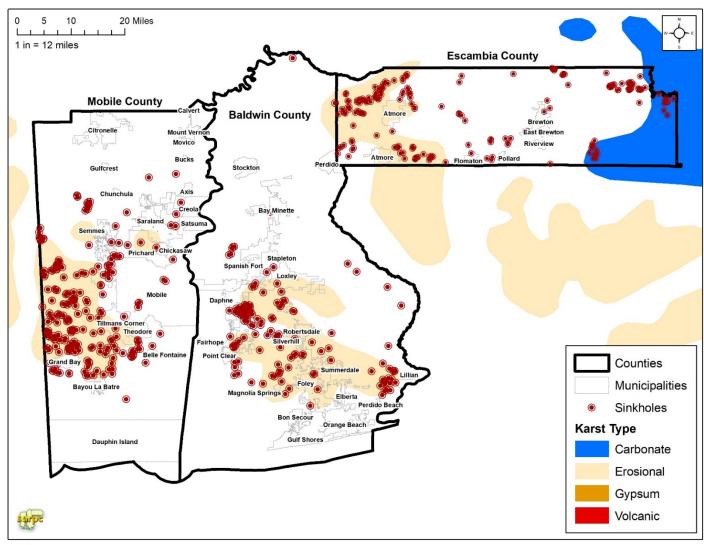


Figure 3.57 SARPC Planning Area Karst Topography and Topographic Depressions

Source: USGS Karst Type (Hosted Layer): U.S. Geological Survey Open-File Report 2004-1352, Caves and Karst in the U.S. National Park Service, AGI Karst Map of the US.

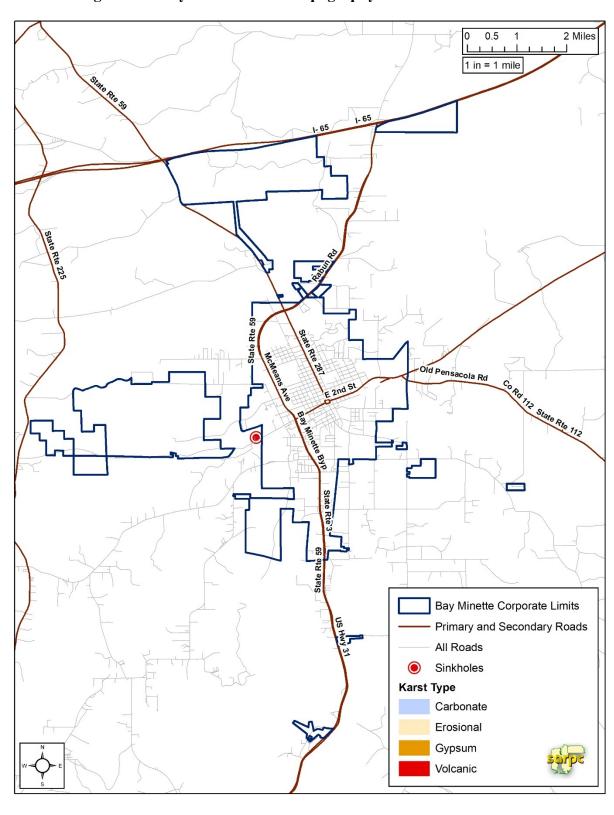


Figure 3.58 Bay Minette Karst Topography and Sinkhole Locations

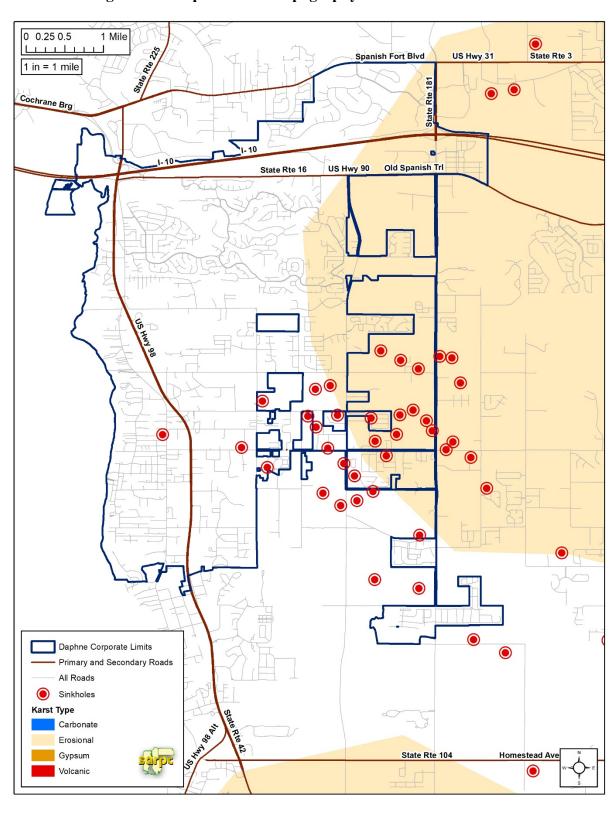


Figure 3.59 Daphne Karst Topography and Sinkhole Locations

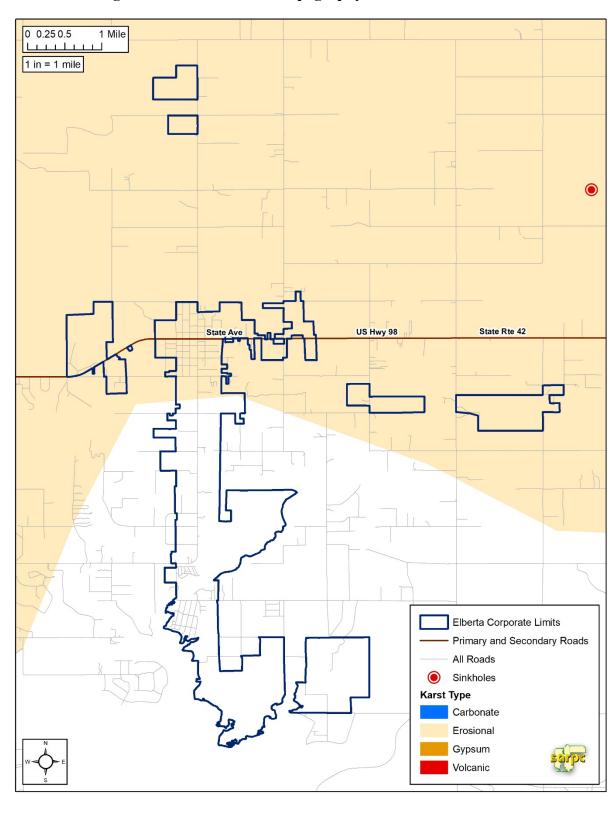


Figure 3.60 Elberta Karst Topography and Sinkhole Locations

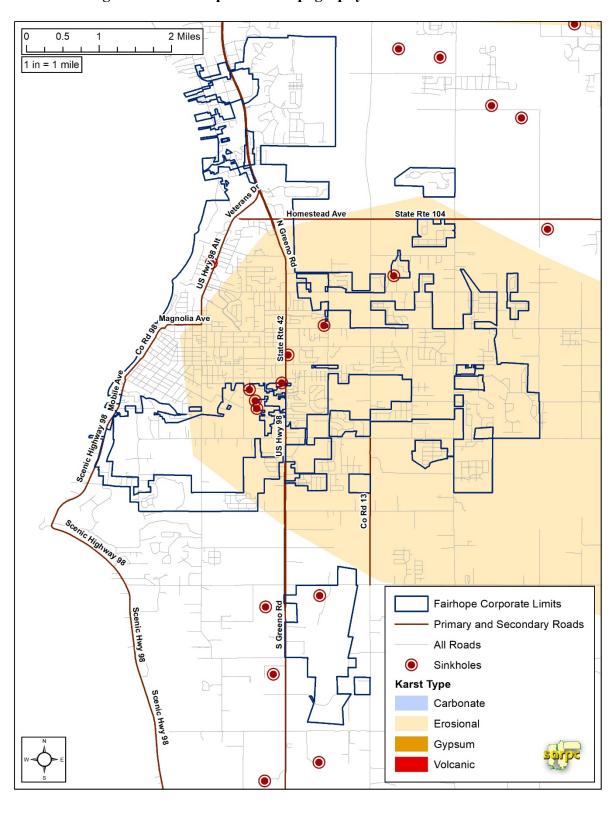


Figure 3.61 Fairhope Karst Topography and Sinkhole Locations

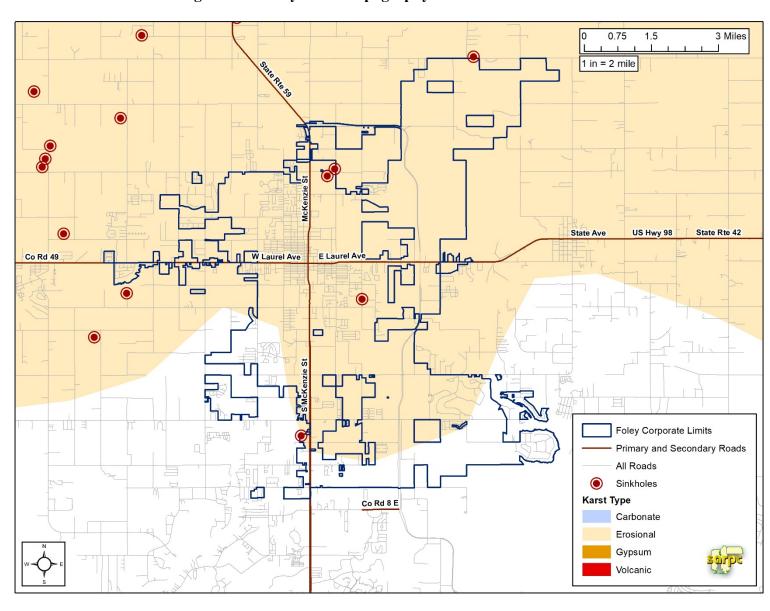


Figure 3.62 Foley Karst Topography and Sinkhole Locations

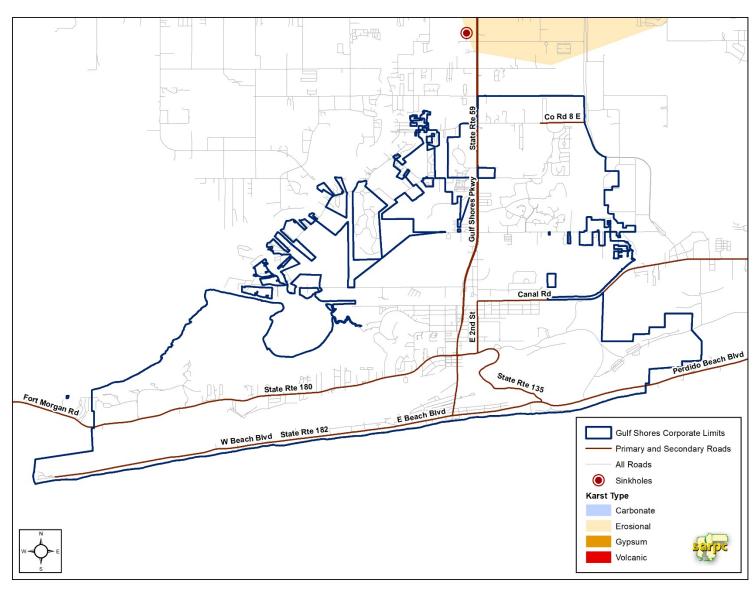


Figure 3.63 Gulf Shores Karst Topography and Sinkhole Locations

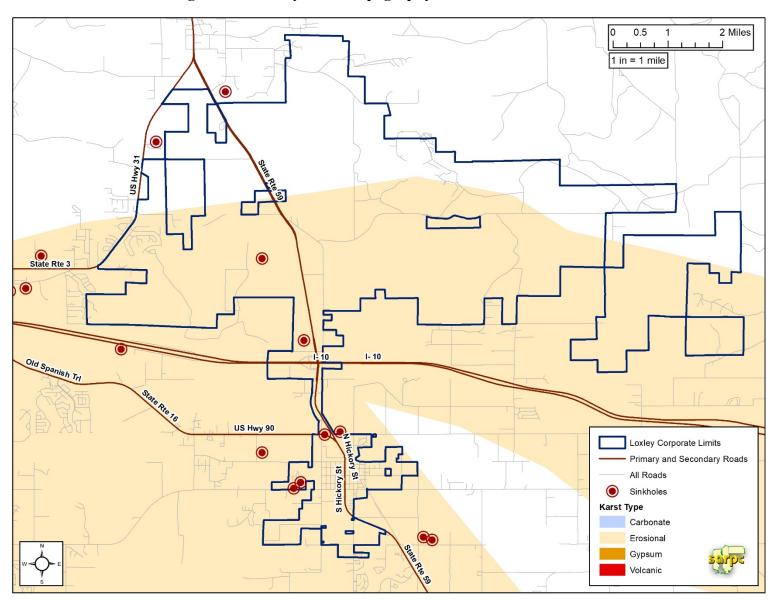


Figure 3.64 Loxley Karst Topography and Sinkhole Locations

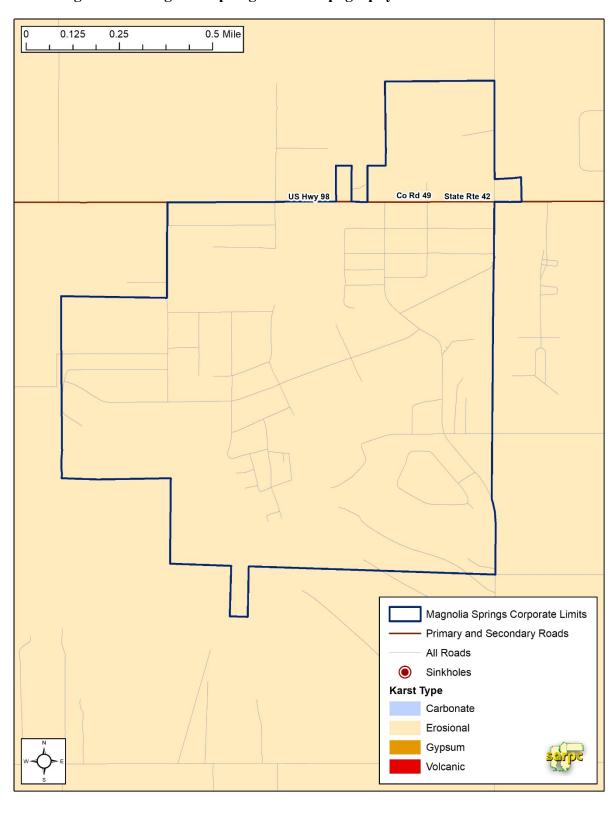
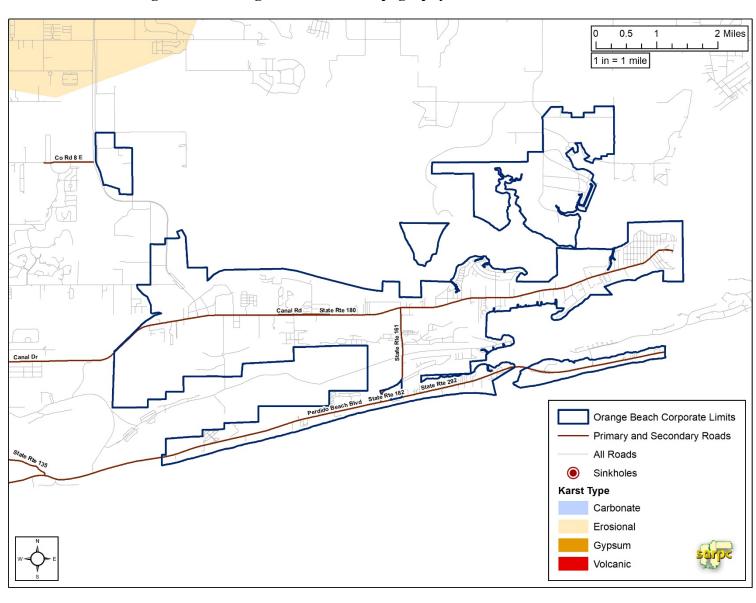


Figure 3.65 Magnolia Springs Karst Topography and Sinkhole Locations



188

Figure 3.66 Orange Beach Karst Topography and Sinkhole Locations

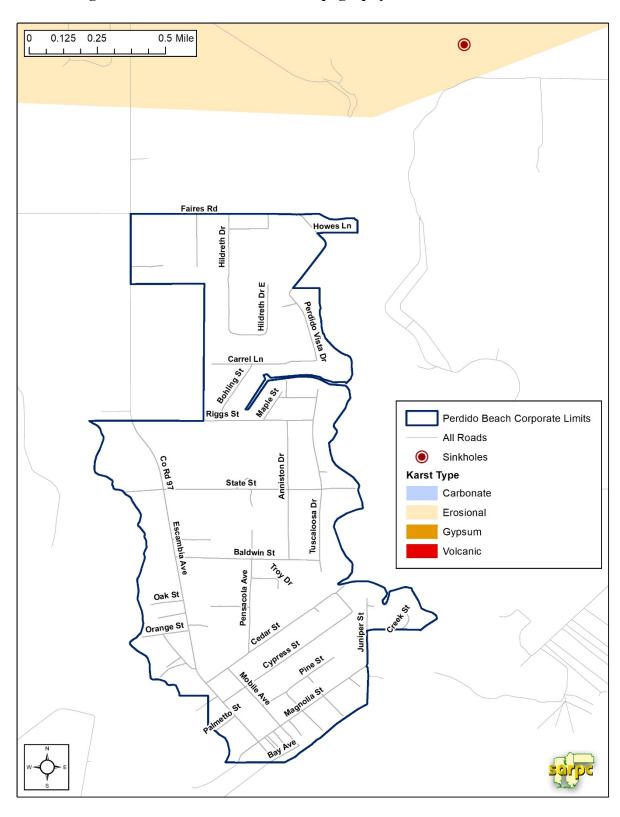
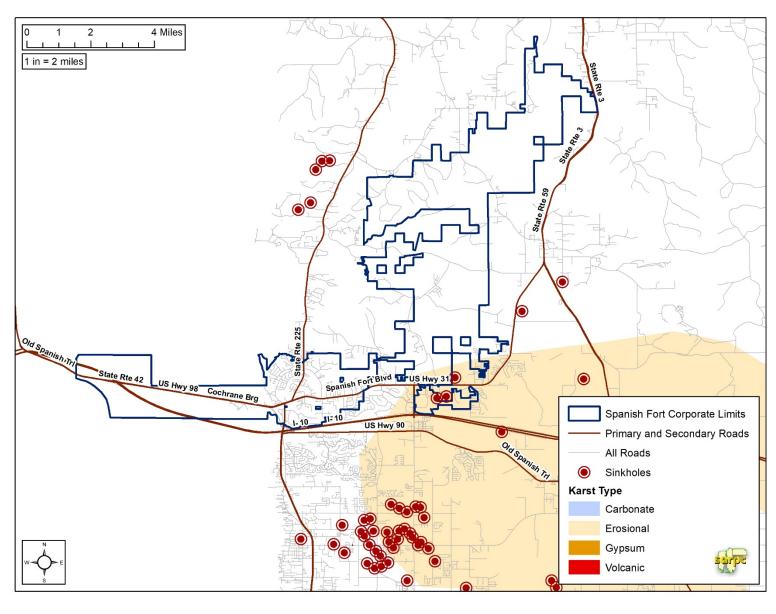


Figure 3.67 Perdido Beach Karst Topography and Sinkhole Locations

3 Miles 1.5 1 in = 1 mile State Rte 16 US Hwy 90 Old Spanish Trl • Homestead Ave State Rte 104 Silverhill Ave Summerdale Corporate Limits Silverhill Corporate Limits Robertsdale Corporate Limits Primary and Secondary Roads All Roads Sinkholes Karst Type Carbonate Erosional Gypsum Volcanic

Figure 3.68 Silverhill, Robertsdale, and Summerdale Karst Topography and Sinkhole Locations



| 191

Figure 3.69 Spanish Fort Karst Topography and Sinkhole Locations

2 Miles 0.5 1 in = 1 mile Co Rd 3 US Hwy 29 Hwy 29 State Rte 15 Forrest Ave **Brewton Corporate Limits** East Brewton Corporate Limits Riverview Corporate Limits Primary and Secondary Roads All Roads Sinkholes Karst Type Carbonate Erosional Gypsum Volcanic

Figure 3.70 Brewton, East Brewton, Riverview Karst Topography and Sinkhole Locations

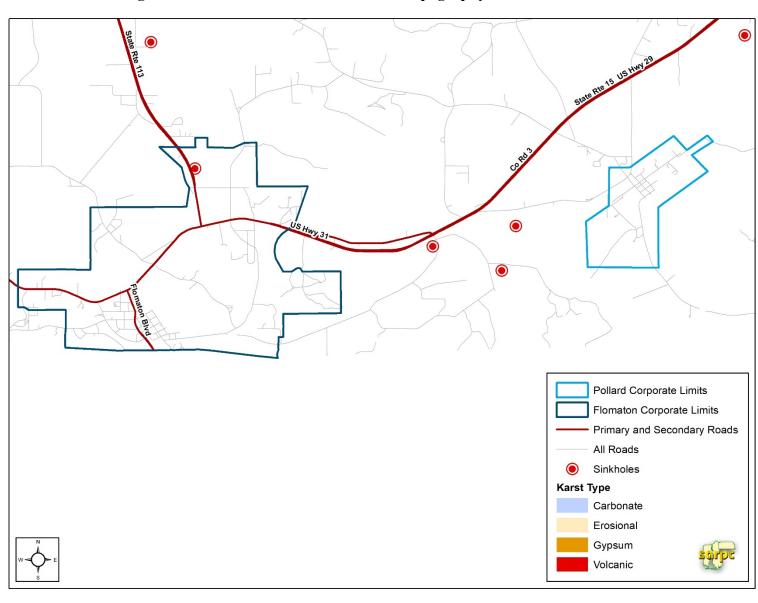


Figure 3.71 Pollard and Flomaton Karst Topography and Sinkhole Locations

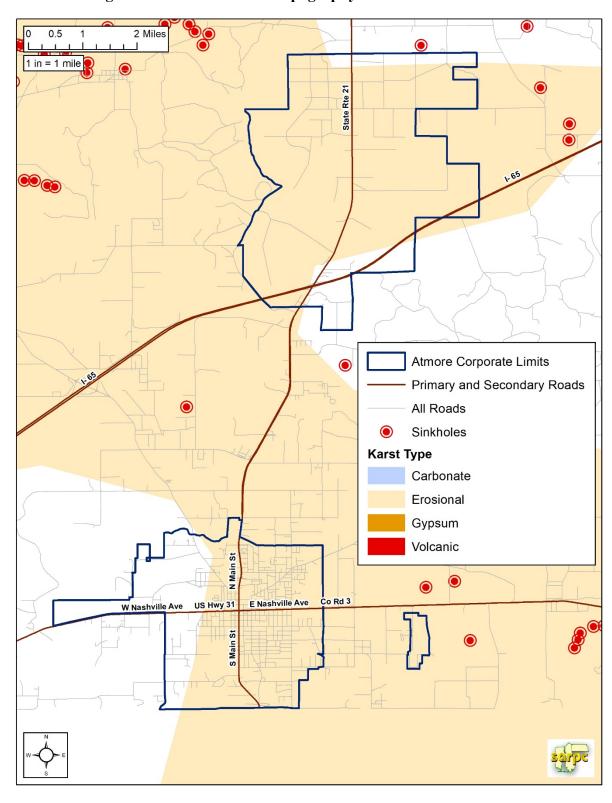


Figure 3.72 Atmore Karst Topography and Sinkhole Locations

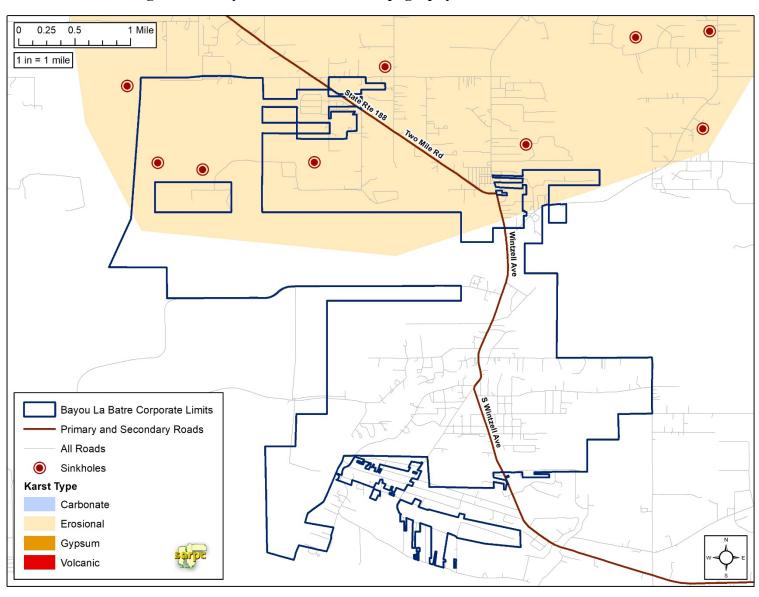


Figure 3.73 Bayou La Batre Karst Topography and Sinkhole Locations

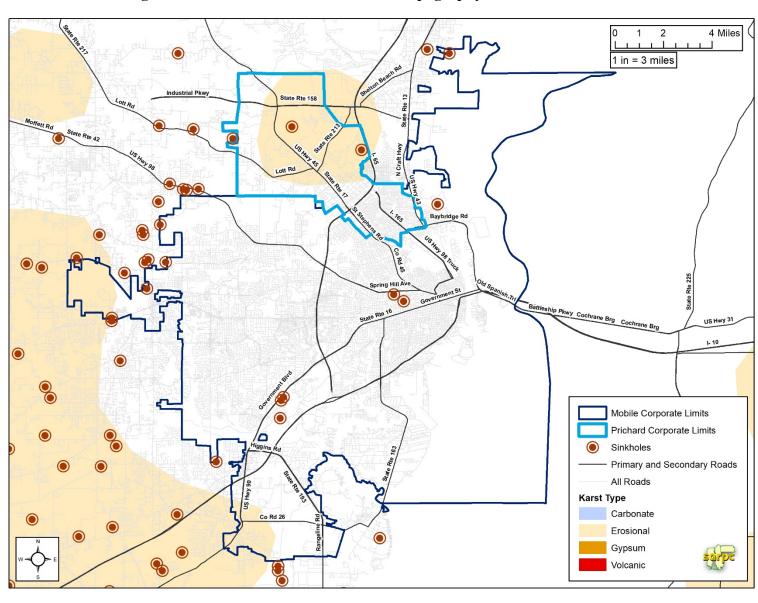


Figure 3.74 Mobile and Prichard Karst Topography and Sinkhole Locations

0.5 1 2 Miles 1 in = 1 mile Citronelle Corporate Limits Primary and Secondary Roads All Roads Sinkholes Karst Type Carbonate Erosional Gypsum Volcanic

Figure 3.75 Citronelle Karst Topography and Sinkhole Locations

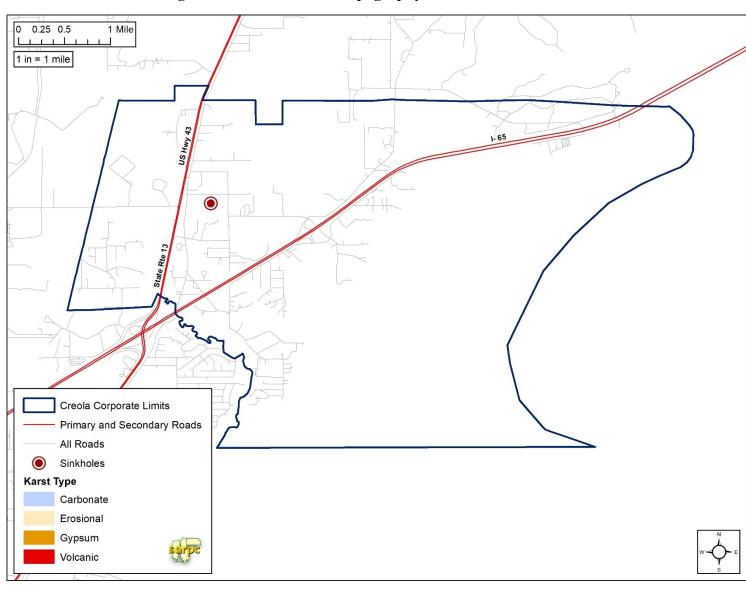


Figure 3.76 Creola Karst Topography and Sinkhole Locations

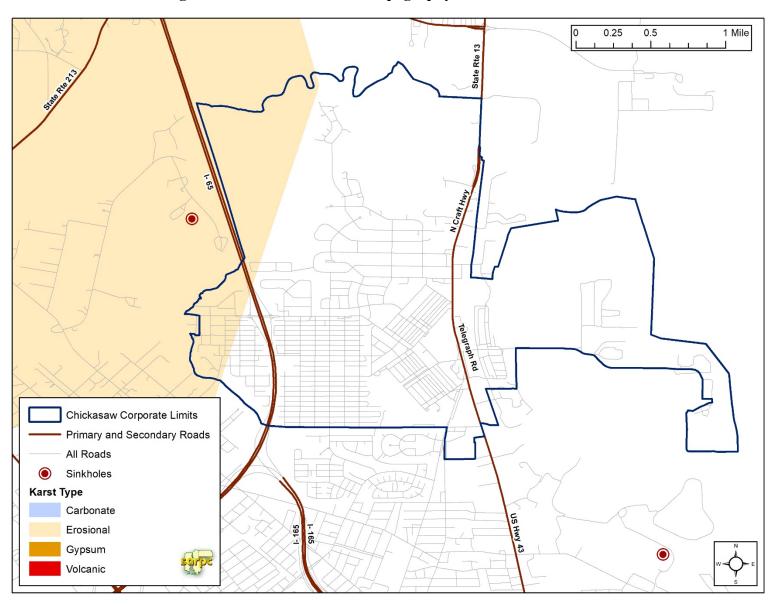
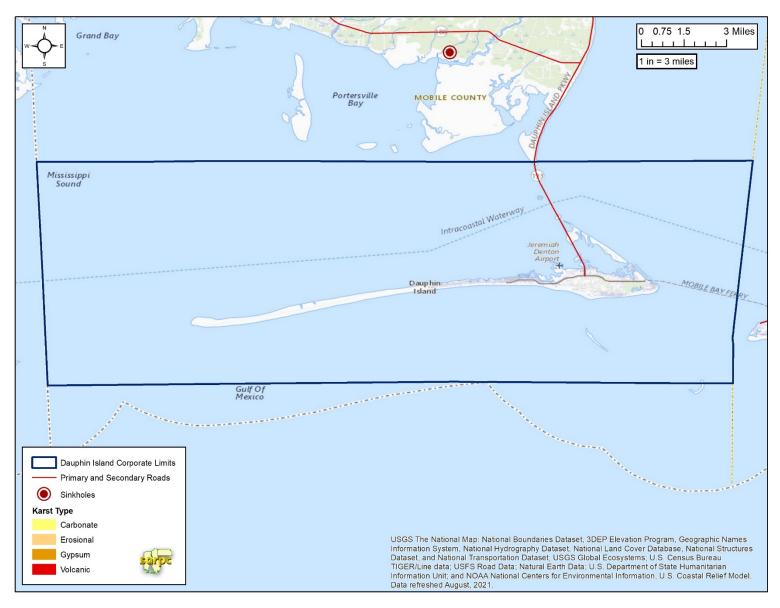


Figure 3.77 Chickasaw Karst Topography and Sinkhole Locations

3.78 Dauphin Island Karst Topography and Sinkhole Locations



Division A Multi-Jurisdictional Hazard Mitigation Plan 2021 – Phase Two | 200

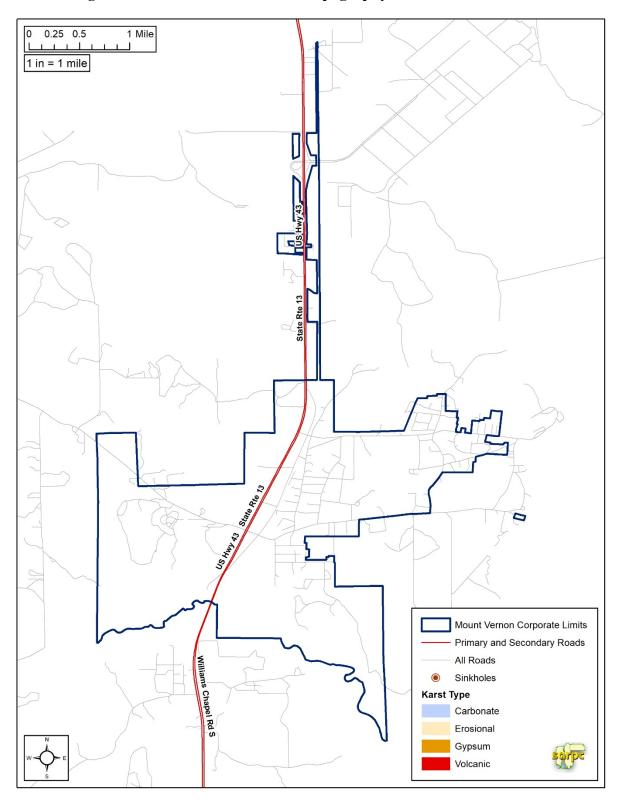


Figure 3.79 Mount Vernon Karst Topography and Sinkhole Locations

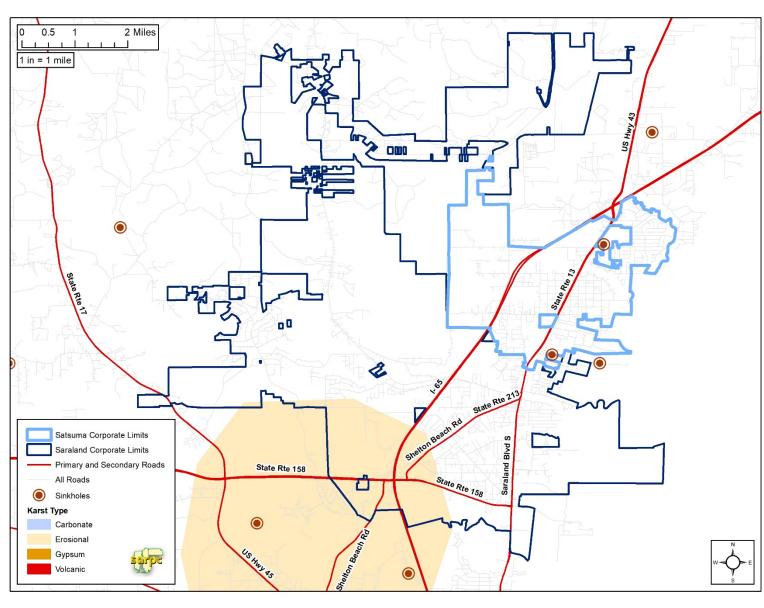


Figure 3.80 Saraland and Satsuma Karst Topography and Sinkhole Locations

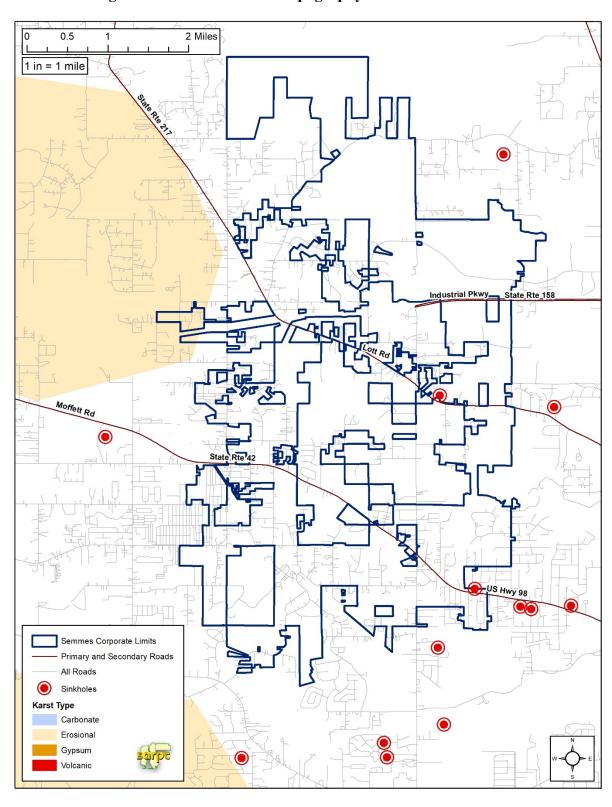


Figure 3.81 Semmes Karst Topography and Sinkhole Locations

Extent

There is no magnitude scale for land subsidence. Subsidence can lead to changes in elevation; damage to structures such as storm drains, sanitary sewers, roads, railroads, canals, levees, and bridges; structural damage to public and private buildings; and damage to wells. Due to the lack of historical data pertaining to land subsidence in the planning area, the extent of these incidents in the area are estimated to be primarily isolated with little damage to structures and infrastructure. As seen in the chart below, the majority of the sinkholes have not occurred in municipalities, but in more unpopulated unincorporated areas.

Table 3.23 Land Subsidence Summary by Jurisdiction

	# of Sinkholes	Extent	Probability
Baldwin County	140	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Bay Minette	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Daphne	18	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Elberta	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Fairhope	7	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Foley	4	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Gulf Shores	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Loxley	6	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Magnolia Springs	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Orange Beach	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Perdido Beach	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Robertsdale	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Silverhill	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Spanish Fort	1	<2 acres affected per incidence, however, where incidents are occurring, damage to structures and infrastructure is possible	Moderate
Summerdale	1	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Escambia County	195	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Atmore	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low

	# of Sinkholes	Extent	Probability
Brewton	3	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
East Brewton	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Flomaton	1	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Pollard	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Riverview	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Mobile County	225	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Bayou La Batre	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Chickasaw	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Citronelle	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Creola	1	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Dauphin Island	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Mobile	1	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Mount Vernon	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Prichard	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Saraland	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Satsuma	1	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low
Semmes	0	<2 acres affected per incidence, isolated damage to structures and infrastructure	Low

Historical Occurrences

There are historical occurrences of subsidence in the planning area. The Geologic Survey of Alabama digitized historical topographic depression features on historical 1:24,000-scale topographic maps. Figure 3.9 includes these occurrences. It is important to note that while most of the topographic depressions are related to sinkholes, some may also be related to mine subsidence.

Probability of Future Events

Based on the information presented, it is difficult to quantify any future incidence of land subsidence. Areas of potential subsidence can be identified based on knowledge of subsurface conditions, but future occurrence is unpredictable. Land subsidence research including limited documentation of previous occurrences lead to the belief that future occurrences would have a minimal impact. The probability of these incidents is classified as low.

3.2.9. Tsunamis

Background

Tsunamis are large ocean waves triggered by earthquakes, volcanic eruptions, submarine landslides, and onshore landslides. Since the Gulf Coast is not located near a tectonic plate boundary or any active volcano areas, the risk of a tsunami caused by earthquake or volcanic eruption is minimal. Onshore landslides are also rare. The tsunami threat to the region would most likely be caused by a submarine landslide, which is a landslide that occurs under water. Large submarine landslides occurred in the Gulf of Mexico over 7,500 years ago.

Locations Affected

There are three geologic landslide provinces in the Gulf of Mexico, the West Florida Landslide, the Mississippi Canyon Landslide, and the East-Breaks Landslide. All of these are located along the continental margin of the gulf.

Extent

Communities in Coastal Mobile and Baldwin Counties in low-lying areas are vulnerable to tsunami damage, especially because of the amount of people located in these areas.

Historical Occurrences

There are no previous occurrences of tsunamis affecting Baldwin or Mobile Counties

Probability of Future Events

Due to the lack of historical evidence for tsunami activity, the probability of future occurrence is low.

PAGE INTENTIONALLY LEFT BLANK.

3.2.10. Wildfires

Background

Wildfires are responsible for burning thousands of acres of land each year. There are two types of wildfires; these are wildland fires and urban wildland interface fires. Wildland fires are those fires that occur in areas where the only development is utilities or infrastructure. Urban-wildland fires occur in areas where development occurs near or within the vegetative cover.

Locations Affected

SARPC used the Southern Wildfire Risk Assessment Summary Report for the planning area to analyze the area's susceptibility to wildfires. The Southern Group of State Foresters' Wildfire Risk Assessment Portal was used to gather data for the maps below. Figure 3.82 illustrates the Wildland Urban Interface (WUI) Risk Index layer. The WUI Risk Index is a rating of the potential impact a wildfire would have on people and their homes. Urban, more densely populated areas have a higher WUI risk. This is illustrated in Figure 3.82, where areas around the most populous cities have the higher WUI. Individual County Fire Intensity Maps are shown in Figures 3.83 through 3.85. Burn probability for the planning area is shown in Figure 3.86.

16.5 22 Miles 0 2.755.5 11 1 in = 11 miles **WUI Risk Index** -9 Major Impacts -5 Moderate -3 -2 -1 Minor Impacts Source: https://southernwildfirerisk.com/

Figure 3.82 Wildland Urban Interface Risk Index for AEMA Division A-SARPC Planning Area

Division A Multi-Jurisdictional Hazard Mitigation Plan 2021 – Phase Two

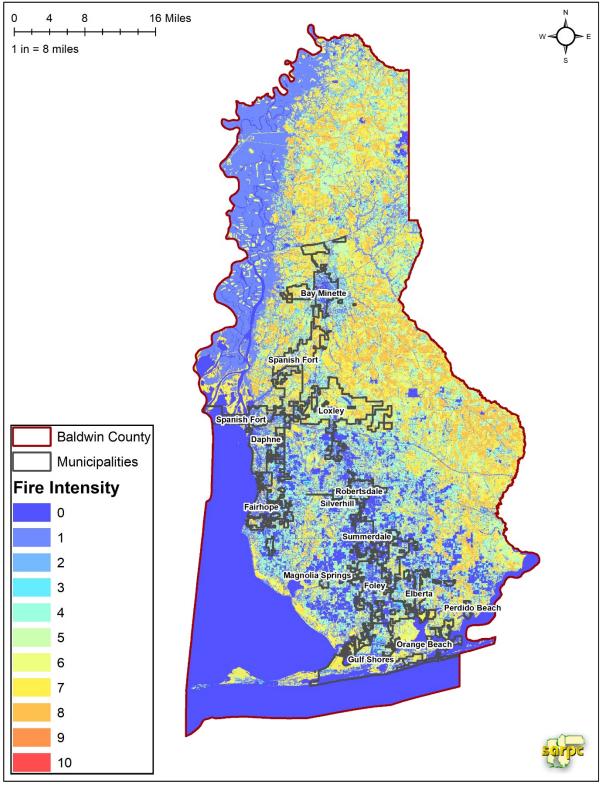


Figure 3.83 Baldwin County Fire Intensity Map

10 Miles 2.5 1 in = 5 miles Escambia County Fire Intensity Municipalities 10

Figure 3.84 Escambia County Fire Intensity Map

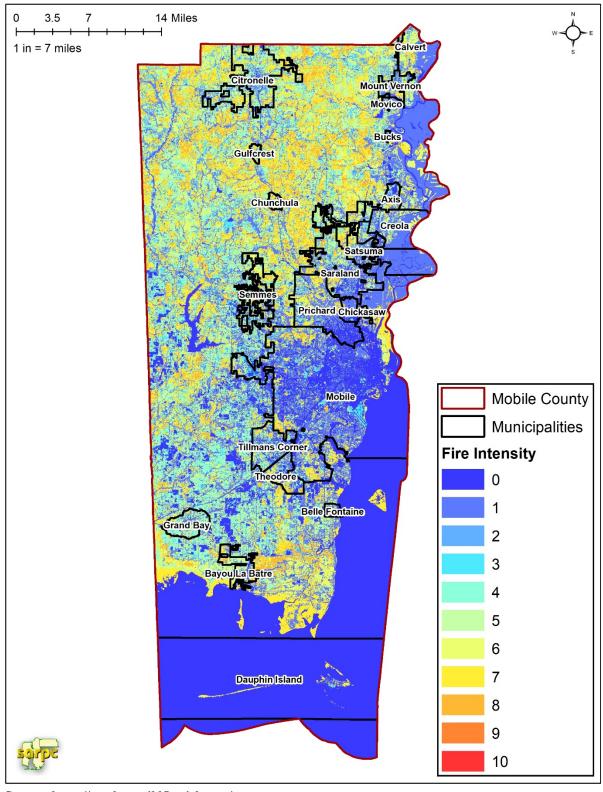


Figure 3.85 Mobile County Fire Intensity Map

Table 3.24 shows that approximately 477,880 acres of the land area in the county is classified as experiencing moderate or above impacts from WUI fires. This is roughly 16 % of the planning area.

Table 3.24 Wildland Urban Interface Risk Index For AEMA Division A-SARPC Planning Area

	Class	Acres	Percent
	-9 Major Impacts	1,695	0.06%
	-8	54,639	1.85%
	-7	102,537	3.46%
	-6	69,003	2.33%
	-5 Moderate	250,006	8.45%
l	-4	150,696	5.09%
	-3	78,767	2.66%
	-2	101,847	3.44%
	-1 Minor Impacts	15,964	0.54%
	0	2,134,187	72.12%
	Total	2,959,342	100.0 %

Source: Southern Wildfire Risk Assessment

The burn probability of an area is the probability of an area burning given current landscape conditions, percentile weather, historical ignition patterns and historical fire prevention and suppression efforts. Burn probability is intended to support an actuarial approach to quantitative wildfire risk analysis, not depict fire return intervals or routes of travel. It is measured on a scale from 1-10, with 1 being the lowest probability and 10 being the highest. In the planning area, approximately 60% of the land area is located in an area with a burn probability of 6 or greater. However, that figure is distorted by the fact that the data includes the significant areas of water in the region, including Mobile Bay and the Delta. If the water acreages, mostly in burn probability categories 1-3 were taken out of the equation, the percentage of acreage located in category 6 or higher would be significantly less. Figure 3.77 shows the burn probability for the counties in the division. Table 3.25 provides the acreage and percent of the division which falls into each burn probability category.

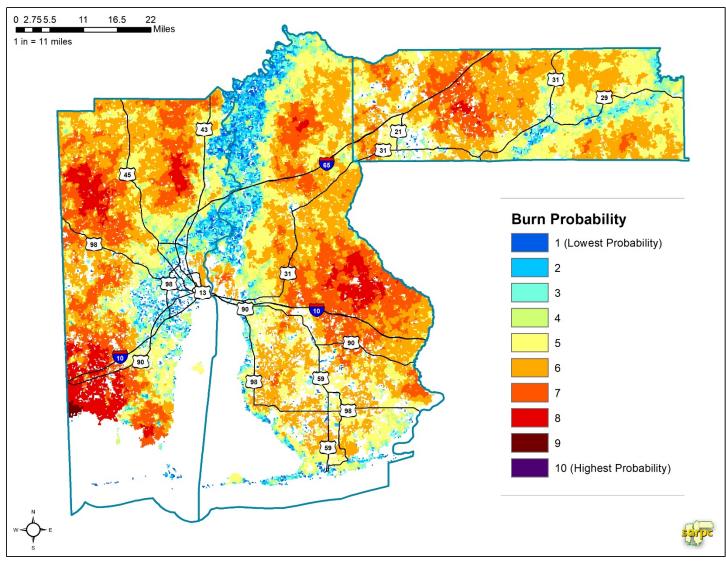


Figure 3.86 Burn Probability for AEMA Division A- SARPC Planning Area

Table 3.25 Burn Probability for AEMA Division A- SARPC Planning Area

Class	Acres	Percent
1	821,134.81	27.77%
2	35,289.29	1.19%
3	92,351.47	3.12%
4	119,535.77	4.04%
5	117,464.86	3.97%
6	521,590.30	17.64%
7	777,156.19	26.28%
8	367,107.23	12.41%
9	102,786.81	3.48%
10	2,789.79	0.09%
Total	2,957,206.52	100.0 %

Source: Southern Wildfire Risk Assessment

Extent

The magnitude of wildfire events is generally classified by the total acres burned and the amount/type of damage they cause. Wildfires can ignite and spread quickly, charring everything in their path. The destructiveness of a wildfire is dependent on many factors including weather conditions, available fuel, topography, and existing wildfire mitigation capabilities. In the planning area, wildfires are a threat to the residents' property and health. There have been several fires over the past decade that affected over 1,000 acres, but fortunately, most are minor/moderate, and are located in unpopulated areas. However, as population and development increase in high growth areas, the wildland urban interface should be closely monitored for potential effects. Table 3.25 shows the number of fires in each county by year, and the amount of acreage affected.

Historical Occurrences

The planning area has experienced many wildfires in recent history, with varied extents. Throughout the planning region, "controlled burns" through land management are performed, which often aids in the prevention of wildfires, or limits the impact of the fires. Rivers, streams, cultivated fields, wide roadways all serve as natural and manmade firebreaks.

Table 3.26 Annual Fire Occurrences

County	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Baldwin											
# Fires	189	373	80	91	89	125	129	50	51	52	46
Total Acres Burned	1,089	8,903	2,381	1,943	2,069	2,395	1,208	749	1,045	1,551	2,068
Average Acres Burned per Fire	5.8	23.9	29.8	21.3	23.2	19.2	9.4	15.0	20.5	29.8	45.0
Largest Fire (Acres)	85	1,300	1,545	350	470	432	110	134	200	1,100	1,200
Escambia											
# Fires	87	101	37	35	50	47	46	26	36	35	19
Total Acres Burned	717	3,800	561	426	584	1,133	789	1,179	500	170	162
Average Acres Burned per Fire	8.2	37.7	15.2	12.2	11.7	24.1	17.2	45.3	13.9	4.9	8.5
Largest Fire (Acres)	200	428	216	88	180	420	400	295	150	60	45
Mobile											
# Fires	178	183	83	98	108	85	105	50	66	60	47
Total Acres Burned	3,153	5,893	1,783	3,232	2,475	3,111	3,339	1,162	828	2366	2400
Average Acres Burned per Fire	17.7	32.2	21.5	33.0	22.9	29.6	31.8	23.24	12.5	39.4	51.1
Largest Fire (Acres)	220	450	140	350	450	1,594	800	280	93	729	1,120

Probability of Future Events

The Southern Wildfire Risk Assessment Summary Report classifies most of the planning area as having a Low to Moderate burn probability. Multiple isolated wildfires occur each year in the planning area, but the majority of these have been minor in nature and have not greatly impacted the planning area. Based on the information in this profile, the entire planning area will be said to have a medium probability for major damage from wildfire events.

PAGE INTENTIONALLY LEFT BLANK.

3.2.11. Winter Storms

Background

Winter storms can encompass any of the following:

- Blizzard: Winds of 35 mph or more with snow and blowing snow reducing visibility to less than ½ mile for 3 hours or more.
- Blowing snow: Wind-driven snow that reduces visibility. Blowing snow may be falling snow and/or snow on the ground picked up by the wind.
- Snow squalls: Brief, intense snow showers accompanied by strong, gusty winds. Accumulation may be significant.
- Snow showers: Snow falling at varying intensities for brief periods of time. Some accumulation is possible.
- Snow flurries: Light snow falling for short durations with little or no accumulation.
- Freezing rain: Frozen precipitation melts in warm air, as rain falls and freezes on cold surfaces as a sheet of ice.
- Sleet: Frozen precipitation melts and refreezes into sleet before hitting ground.

The National Weather Service monitors winter weather conditions and may issue the following type of alerts:

- Winter Storm Outlook Winter storm conditions are possible in the next 2 to 5 days.
- Winter Weather Advisory Winter weather conditions are expected to cause significant inconveniences and may be hazardous. When caution is used, these situations should not be life threatening.
- Winter Storm Watch Winter storm conditions are possible within the next 36 to 48 hours. People in a watch area should review their winter storm plans and stay informed about weather conditions.
- Winter Storm Warning Life-threatening, severe winter conditions have begun or will begin within 24 hours. People in a warning area should take precautions immediately.

Locations Affected

Winter storms are a rare occurrence in the planning area, but when they do occur, they have a significant impact. Local governments have improved their response to winter storm events but they are unpredictable events. Local drivers are not accustomed to driving in adverse conditions and automobile accidents are common occurrences. Ice and snow weigh down limbs and power lines causing them to break under pressure, resulting in power failure and property damage. During extended times of power failure, most residents and businesses are not equipped with backup generators. The impacts of these storms are generally the result of the infrequency of their occurrence. All residents of the planning area are vulnerable to severe winter storms because these storms have no defined track.

Extent

The planning area experiences severe winter weather infrequently. The few winter storms documented in the area have caused a few inches of ice and/or snow. Most local governments and private citizens are unprepared when they do occur. Snow can immobilize the area, stranding commuters and disrupting emergency and medical services. Snow and ice can lead to downed trees and power lines. Ice can disrupt communications and power for days while utility companies repair the damage. Even small accumulations of ice and snow are extremely dangerous to motorists and pedestrians. Bridges and overpasses are particularly dangerous because they freeze before other surfaces. Normally during a winter storm most non-essential businesses close for a few days until the weather improves, which results in economic losses.

Extent of winter storm/winter weather in **Baldwin County:**

12/8/17

- Storm total snow amounts of 2 inches in Bay Minette and 1.25 in Phillipsville
- Storm total snowfall of 2 inches in Loxley, 1.4 in Robertsdale, 1 in Rosinton, 0.5 to 1 in Malbis, 0.4 to 1 in Fairhope and a trace in Foley. Reports came from a mix of Public, Coop, CoCoRaHS and Social Media.

1/17/18

- Storm total sleet and freezing rain totals of 0.1 in Malbis 0.08 in Loxley
- A dusting of sleet and snow was recorded in Robertsdale and Orange Beach
- Storm total sleet and freezing rain totals of 0.15 to 0.4 inches in Phillipsville.

Extent of winter storm/winter weather in **Escambia County**:

2/12/10

- Public reported 1 inch of snow in Brewton
- A Spotter measured 2 inches of snow in Atmore
- Broadcast media reported 6 inches of snow in Wallace
- WEBJ radio reported 2.5 inches of snow in Brewton

12/8/17

• Storm total snow amount of 2.5 inches in Brewton. 1.5 inches in Appleton and 1 inch in Atmore

Extent of winter storm/winter weather in **Mobile County:**

12/8/17

- Storm total snowfall of 1 inch at Mobile Regional Airport, 1 inch in Tillman's Corner, 0.3 in Wilmer and 0.5 near the Fowl River
- Storm total snowfall of 0.2 inches on Dauphin Island

1/16/18

 Storm total snow and sleet accumulations of around 1 inch in Citronelle and Chickasaw • Storm total snow and sleet accumulations of 0.10 at the NWS Office in West Mobile

Historical Occurrences

There have been minor winter weather events over portions of the planning area since 1995. Most recently, and not even documented in the NOAA Storms Events Database, a week-long span of nightly below freezing temperatures caused minor icing in certain areas of the region, mainly those to the north. However, minimal destruction and disruption occurred.

Table 3.27 Division A- SARPC Counties Winter Storm Occurrences 1995-2020

Location	Date	Event	Deaths	Injuries	Property Damage	Crop Damage
Escambia	1/2/2002	Winter Storm	0	0	0	0
Escambia	2/12/2010	Winter Storm	0	0	0	0
Escambia	2/12/2010	Winter Storm	0	0	0	0
Escambia	2/12/2010	Winter Storm	0	0	0	0
Escambia	2/12/2010	Winter Storm	0	0	0	0
Baldwin Inland	12/8/2017	Winter Weather	0	0	0	0
Baldwin Central	12/8/2017	Winter Weather	0	0	0	0
Escambia	12/8/2017	Winter Weather	0	0	0	0
Mobile Central	12/8/2017	Winter Weather	0	0	0	0
Mobile Coastal	12/8/2017	Winter Weather	0	0	0	0
Mobile Inland	1/16/2018	Winter Weather	0	0	0	0
Mobile Central	1/16/2018	Winter Weather	0	0	0	0
Baldwin Central	1/17/2018	Winter Weather	0	0	0	0
Baldwin Coastal	1/17/2018	Winter Weather	0	0	0	0
Baldwin Inland	1/17/2018	Winter Weather	0	0	0	0

Source: NOAA Storms Events Database

Probability of Future Events

Winter storms in southwest Alabama are infrequent and generally short-term events; therefore, they have a low probability of causing major damage in the planning area.

PAGE INTENTIONALLY LEFT BLANK.

3.3 Vulnerability Summary by Jurisdiction

Vulnerability Overview

It should be noted that this version of the Regional Hazard Mitigation Plan was unable to use FEMA's HAZUS-MH software to assist in the vulnerability assessment. The next revision of the Plan will be able to have scenarios developed using HAZUS to assist in estimating damage and financial losses for prioritized hazards.

This section presents a qualitative assessment of the risk and potential impact of each identified hazard. Assigned risk levels were determined based on the hazard profiles developed earlier in this section. The classifications generated from this table assist in the prioritization of hazard risk through objectively looking at the possible scope of the studied hazards. In order to quantify the risk classifications, varying degrees of risk factors (probability, impact, location extent, warning time, and duration) were assigned a value of "1" to "4" and weighted in order to create at total value with a maximum score of 4.0.

Table 3.28 Risk Index for Regional Hazards

Category	Level	Criteria		Weighted Factor
	Very Low	Less than 1% annual probability	Value	ractor
	•	Between 1% and 10% annual probability	2	
Probabil-	Low Medium	, , , , , , , , , , , , , , , , , , ,	3	
ity		Between 10% and 100% annual probability	4	30%
пу	High	100% annual probability	4	30%
	Minor	Very few injuries, if any occur. Only minor property damage and minimal disruption of quality of life. Temporary shutdown of critical facilities.	1	
	Limited	Minor injuries only. More than 10% of property in affected area damaged or destroyed. Complete shutdown of critical facilities for more than one day.	2	
Impact	Critical	Multiple deaths/injuries possible. More than 25% of property in affected area damaged or destroyed. Complete shutdown of critical facilities for more than one week.	3	30%
	Catastrophic	High number of deaths/injuries possible. More than 50% of property in affected area damaged or destroyed. Complete shutdown of critical facilities for one month or more.	4	
	Negligible	Less than 1% of area affected.	1	
Location	Small	Between 1% and 10% of area affected.	2	
Extent	Moderate	Between 10% and 50% of area affected.	3	20%
	Large	Between 50% and 100% of area affected.	4	2070
Warning	More than 24 hours	Self-explanatory	1	
Time	12 to 24 hours	Self-explanatory	2	10%

Category	Level	Criteria	Index	Weighted
			Value	Factor
	6 to 12 hours	Self-explanatory	3	
	Less than 6	Self-explanatory	4	
	hours			
Duration	Less than 6	Self-explanatory	1	
	hours			
	Less than 24	Self-explanatory	2	10%
	hours			
	Less than	Self-explanatory	3	
	one week			
	More than	Self-explanatory	4	
	one week			

Table 3.29 assigns a qualitative risk impact assessment for each hazard, based on the hazard profiles created in this section and other input from plan stakeholders. The results were used in calculating the values for each hazard in order to prioritize the regional impacts of identified hazards in this plan. It should be noted that this assessment is just a categorization of most likely factors for each hazard.

Table 3.29 Summary of Regional Hazard Risk Impact

Hazard	Degree of Risk						
	Probabil- ity	Impact	Location Extent	Warning Time	Duration	Weighte d Score	
	30%	30%	20%	10%	10%		
Dam Failure	Very Low	Critical	Small	6-12 hours	Less than 24 hours		
	1	3	2	3	2	2.1	
Drought/ Ex- treme Heat	Medium	Minor	Moderate	More than 24 hours	More than one week		
	3	1	3	1	4	2.3	
Earthquake	Medium	Minor	Small	Less than 6 hours	Less than 6 hours		
	3	1	2	4	1	2.1	
Flooding	High	Critical	Moderate	6-12 hours	Less than one week		
	4	3	3	3	3	3.3	
High Winds- Hurricanes	Medium	Cata- strophic	Large	More than 24 hours	Less than 24 hours		
	3	4	4	1	2	3.2	
High Winds- Tornadoes	High	Critical	Small	Less than 6 hours	Less than 6 hours		

Hazard	Degree of Risk					
	4	3	2	4	1	3.0
High Winds- Severe Thun- derstorms	High	Minor	Moderate	Less than 6 hours	Less than 6 hours	
	4	1	3	4	1	2.8
Landslides	Low	Minor	Negligible	Less than 6 hours	Less than 6 hours	
	2	1	1	4	1	1.6
Land Subsid- ence/ Sink- holes	Low	Minor	Small	Less than 6 hours	Less than 6 hours	
	2	1	2	4	1	1.8
Tsunamis	Very Low	Minor	Negligible	Less than 6 hours	Less than 6 hours	
	1	1	1	4	1	1.3
Wildfires	High	Minor	Moderate	Less than 6 hours	Less than one week	
	4	1	3	4	3	2.8
Winter Storms	Low	Limited	Large	More than 24 hours	Less than one week	
	2	2	4	1	3	2.4

Based on the results of the hazard assessment summary, the highest priority hazards for the planning area are Flooding (3.3 Score), High Winds-Hurricanes (3.2 Score), and High Winds-Tornadoes (3.0 Score).

Jurisdictions in the division share similar vulnerabilities with respect to natural hazards. A discussion of these vulnerabilities is provided below. All of age, poverty, and housing information came from the 2019 American Community Survey 5-year estimates.

Baldwin County

- With respect to vulnerable populations, there are nine jurisdictions in which over 20% of the population is aged 65 and older. Older individuals are generally accepted to have higher vulnerability to hazards due to lessened physical and often mental capacity. Elberta, Fairhope, Foley, Gulf Shores, Magnolia Springs, Orange Beach, Perdido Beach, Silverhill, and Summerdale are the jurisdictions with over 20% aged 65 and up.
- Additionally, lower income individuals are classified as having higher vulnerability due lack of resources to prepare and to recover from disasters. The jurisdictions that have at least 20% of their population living below the poverty line include Bay Minette and Robertsdale.
- The type of housing is also a factor for vulnerability, specifically mobile homes. While Elberta is the only jurisdiction in the county where mobile homes account for more than

- 20% of the housing stock, it is important to note that any mobile home is more susceptible to hazards, especially high winds.
- Group living facilities such as assisted living facilities and nursing homes have higher population density which make them more vulnerable to hazards. More density can lead to difficulties evacuating if necessary, and greater injury or loss of life. Specifically, these locations are more vulnerable to High Wind Events (Hurricanes, Tornadoes, Severe Thunderstorms) and Wildfires.
- A number of factors influence jurisdiction's vulnerability to flooding and flash flooding. There are floodplain areas located throughout the county (refer to Figure 3.3). All municipalities and counties in the region participate in the NFIP, but the smaller jurisdictions do not have certified floodplain managers. Flash flooding vulnerability exists throughout the county and is influenced by multiple areas throughout the county that flood due to nonexistent, undersized, or deteriorated drainage infrastructure. Coastal areas of the county are especially vulnerable to flooding due to elevation and a higher risk of hurricanes.
- Important industries in the county include agriculture and tourism. If an event occurred that damaged the county's agricultural resources or shut down tourism, it would cripple the economy. Strong winds (Hurricanes and Tornadoes) and flooding could have a devastating impact of both of these industries, and wildfires could be devastating for the agricultural industry with respect to timber. All of these hazards can affect other industries as well, with issues such as damage, power outages and impassable roads, affecting other major industries in the county such as education, medical trade, and retail operations.
- Although many critical facilities have backup power generation in the county, there are still a significant number in need of this capability. The lack of this capability increases vulnerability to all hazards.
- Most of the jurisdictions in the county have limited to no funding to support mitigation efforts. This lack of funding to dedicate to mitigation projects influences its' vulnerability to all hazards.
- Many areas in the county have limited cellphone service, many individuals depend on their
 phones to alert them to severe weather. The limited coverage makes these individuals more
 vulnerable to severe thunderstorms, flash flooding events, and tornadoes.

Escambia County

- With respect to vulnerable populations, there is only one jurisdiction, Riverview, in which over 20% of the population is aged 65 and older. Older individuals are generally accepted to have higher vulnerability to hazards due to lessened physical and often mental capacity.
- Additionally, lower income individuals are classified as having higher vulnerability due lack of resources to prepare and to recover from disasters. The jurisdictions with at least 20% of their population living below the poverty line include Brewton, East Brewton, Flomaton, and Riverview. People living in poverty may not have access to emergency management equipment, and also may not be able to evacuate quickly or have the ability to afford to evacuate, if necessary.
- The type of housing is also a factor for vulnerability, specifically mobile homes. Pollard and Riverview are the only jurisdictions in the county where mobile homes account for more than 20% of the housing stock, but it is important to note that any mobile home is more susceptible to hazards, especially high winds.

- Group living facilities such as assisted living facilities and nursing homes have higher population density which make them more vulnerable to hazards. More density can lead to difficulties evacuating if necessary, and greater injury or loss of life. Specifically these locations are more vulnerable to High Wind Events (Hurricanes, Tornadoes, Severe Thunderstorms) and Wildfires.
- A number of factors influence jurisdiction's vulnerability to flooding and flash flooding. There are floodplain areas located throughout the county (refer to Figure 3.3). All municipalities and counties in the region participate in the NFIP, but none of the municipalities have certified floodplain managers. Flash flooding vulnerability exists throughout the county and is influenced by multiple areas throughout the county that flood due to nonexistent, undersized, or deteriorated drainage infrastructure. Coastal areas of the county are especially vulnerable to flooding due to elevation and a higher risk of hurricanes.
- Important industries in the county include agriculture, tourism (gambling), and paper manufacturing. If an event occurred that damaged the county's agricultural resources or shut down the Wind Creek Casino, it would be devastating to the economy. Strong winds (Hurricanes and Tornadoes) and flooding could have a devastating impact of both of these industries, and wildfires could be devastating for the agricultural and paper industry with respect to timber. All of these hazards can affect other industries as well, with issues such as damage, power outages and impassable roads, affecting other major industries in the county such as education and retail operations.
- Although many critical facilities have backup power generation in the county, there are still a significant number in need of this capability. The lack of this capability increases vulnerability to all hazards.
- Most of the jurisdictions in the county have limited to no funding to support mitigation efforts. This lack of funding to dedicate to mitigation projects influences its' vulnerability to all hazards.
- Many areas in the county have limited cellphone service, many individuals depend on their phones to alert them to severe weather. The limited coverage makes these individuals more vulnerable to severe thunderstorms, flash flooding events, and tornadoes.

Mobile County

- With respect to vulnerable populations, there are only two jurisdictions, Dauphin Island and Semmes, in which over 20% of the population is aged 65 and older. Older individuals are generally accepted to have higher vulnerability to hazards due to lessened physical and often mental capacity.
- Additionally, lower income individuals are classified as having higher vulnerability due lack of resources to prepare and to recover from disasters. The jurisdictions that have at least 20% of their population living below the poverty line include Bayou La Batre, Chickasaw, Citronelle, Creola, Mobile, Mount Vernon, and Prichard.
- The type of housing is also a factor for vulnerability, specifically mobile homes. While Creola is the only jurisdiction in the county where mobile homes account for more than 20% of the housing stock, it is important to note that any mobile home is more susceptible to hazards, especially high winds.
- Group living facilities such as assisted living facilities and nursing homes have higher population density which make them more vulnerable to hazards. More density can lead to

- difficulties evacuating if necessary, and greater injury or loss of life. Specifically these locations are more vulnerable to High Wind Events (Hurricanes, Tornadoes, Severe Thunderstorms) and Wildfires.
- A number of factors influence jurisdiction's vulnerability to flooding and flash flooding. There are floodplain areas located throughout the county (refer to Figure 3.3). All municipalities and counties in the region participate in the NFIP, but the smaller jurisdictions do not have certified floodplain managers. Flash flooding vulnerability exists throughout the county and is influenced by multiple areas throughout the county that flood due to nonexistent, undersized, or deteriorated drainage infrastructure. Coastal areas of the county are especially vulnerable to flooding due to elevation and a higher risk of hurricanes.
- Important industries in the county include shipbuilding, government and education (including college). Strong winds (Hurricanes and Tornadoes) and flooding could have a devastating impact of both of these industries, and wildfires could be devastating for the agricultural industry with respect to timber. All of these hazards can affect other industries as well, with issues such as damage, power outages and impassable roads, affecting other major industries in the county such as retail and tourism.
- Although many critical facilities have backup power generation in the county, there are still a significant number in need of this capability. The lack of this capability increases vulnerability to all hazards.
- Most of the jurisdictions in the county have limited to no funding to support mitigation efforts. This lack of funding to dedicate to mitigation projects influences its' vulnerability to all hazards.
- Many areas in the county have limited cellphone service, many individuals depend on their phones to alert them to severe weather. The limited coverage makes these individuals more vulnerable to severe thunderstorms, flash flooding events, and tornadoes.

Vulnerability and Changes in Development

Overall, the population changes in Mobile and Escambia counties are not going to drastically affect vulnerability. Both Mobile and Escambia Counties have seen new industry, but without a major increase in population.

The majority of development in the planning area is occurring in Baldwin County, with Fairhope, Foley, Gulf Shores, Loxley, Robertsdale, and Spanish Fort experiencing greater than 20% population growth between the 2010 Census and the 2019 American Community Survey. Two of the largest new commercial facilities to be located in Baldwin County within the last five years are Buckee's and the proposed ALDI distribution center. Steady growth continues along the I-10 corridor and along the coasts.

The increased development in Baldwin County affects vulnerability. The more development, the more individuals that will be attracted into these areas. Development leads to more structures being vulnerable to the effects of hazards. In particular, the dynamic of the wildland urban interface is affected leading to a higher risk of WUI wildfires occurring. With regards to development's effect on floodplain areas, all growing jurisdictions discussed here are active participants in the NFIP. It will be vital for these communities to enforce their flood ordinances in order to minimize vulnerability.

3.4 Probability of Future Occurrences and Damage Estimates

Table 3.31 estimates the hazard event frequency of occurrences cumulatively for the planning area. These estimates were calculated from events recorded at different time periods, based on source data, which is described below. There is no guarantee the recorded level of hazard events will continue into the future at the same rate; however, the figures below provide a possible estimate of potential damages.

The period for each recorded hazard is listed below (when known and/or applicable) in Table 3.30.

Table 3.30 Recorded Hazards by Type and Period

Hazard Type	Recorded Period
Dam Failure	Not Available
Drought/Extreme Heat	2000-2020
Earthquake	1974-2020
Flooding	2000-2020
High Winds – Hurricanes	1979-2020
High Winds – Tornadoes	2015-2020
High Winds – Severe Thunderstorms	2014-2019
Landslides	Unknown
Land Subsidence/Sinkholes	Unknown
Tsunamis	All Years
Wildfires	Unavailable
Winter Storms	1995-2020

Table 3.31 Natural Hazard Probability and Damage Estimates

					Estimated Fu-
		Time	Damages	Probability	ture Damage
Hazard	Occurrences	(Years)	Recorded	(Annual)	(Annual)
Dam Failure	0	N/A	0	N/A	N/A
Drought/Ex-					
treme Heat	2	21	N/A	100%	N/A
Earthquake	21	47	N/A	45%	N/A
Flooding	94	21	\$38,669,000	100%	\$1,841,381
High Winds-					
Hurricanes	18	42	\$12,571,600,000*	43%	N/A
High Winds-					
Tornados	102	6	\$12,952,000	100%	\$2,158,667
High Winds-Se-					
vere Thunder-					
storms	600	6	\$11,726,500	100%	\$1,954,417
Landslides	N/A	N/A	N/A	N/A	N/A
Land Subsid-					
ence/Sinkholes	N/A	N/A	N/A	N/A	N/A

Hazard	Occurrences	Time (Years)	Damages Recorded	Probability (Annual)	Estimated Future Damage (Annual)
Tsunamis	0	All	0	0	0
Wildfires	N/A	N/A	N/A	N/A	N/A
Winter Storms	15	26	0	58%	0

Sources: National Climatic Data Center (NCDC), Alabama Forestry Commission

Dam Failure: The risk of losses from dam failure cannot be calculated based on historic records due to lack of data. Even though dam failure is a rare occurrence and is mostly unprecedented in the planning area, an occurrence could cause critical damages downstream.

Drought/Extreme Heat: The risk of losses from drought and extreme heat cannot be calculated due to the lack of historic data. Qualitative documentation shows evidence that drought and extreme heat conditions cause agricultural losses and water quantity issues, but it is difficult to define the exact impact from this hazard. The probability of drought and extreme heat occurring within the region is relatively high. The probability of an impactful drought or an extreme heat event occurring in the planning area is classified as medium (10-50 years).

Flooding: The division is both subject to flash, riverine, and coastal flooding. Incidences and damages have been reported as a result of all three, but risks vary by jurisdiction. There have been 94 occurrences of flooding in the past 21 years, with an estimated cost in damages of over \$38 million in damages. Flooding is the third highest damaging hazard in the division.

High Winds (Hurricanes): Since 1979, the planning area has experienced 18 hurricanes. From only five of these storms (Frederic, Danny, Georges, Ivan and Katrina) the damage exceeds \$12 trillion making hurricanes the highest damaging hazard in the division. While hurricanes don't occur every year in the planning area, they are by far the most expensive and can cause the most widespread damage.

High Winds (Tornadoes): Since 1950, the planning area has experienced tornadoes almost every year. The planning area has had 102 occurrences of high wind events over the past 6 years. These occurrences have caused over \$12 million in damages, making it the second highest damaging hazard in the planning area, behind hurricanes.

High Winds (Severe Thunderstorms): The planning area experiences numerous severe thunderstorms each year. In the last six years, 600 severe thunderstorms have been recorded in the planning area with damages totaling over \$11 million and ranking the category the third highest damaging hazard in the planning area.

Landslides: The risk of losses from landslides cannot be calculated based on historic records due to lack of data. Though incidents of landslides have been recorded in the planning area, there are no damage estimates attached to those events. Any landslide occurrence in the planning area would most likely be minor in impact due to the localized nature of these events.

^{*}Damages do not include all recorded hurricanes during this period. See description below.

Land Subsidence/Sinkholes: The risk of losses from land subsidence events, such as sinkholes, cannot be calculated based on historic records due to lack of data. Though much of the planning area has depressions noted on topographic maps or has karst terrain, information about previous incidents are limited at best with no damage estimates. Any land subsidence occurrence in the region would most likely be minor in impact due to the localized nature of these events.

Tsunamis: There have been no recorded occurrences of tsunamis in the planning region ever.

Wildfires: Though wildfires are the most likely hazard to occur in the planning area, the impact of wildfires have been very minor and localized in mostly undeveloped areas. Though historically, wildfires have mostly affected timber resources in the planning area, future development in wildland urban interface areas should be mindful of this potential hazard.

Winter Storms: There have been 15 winter storms over the past 26 years but has resulted in \$0 in damages. These events normally have a short duration and have minor impacts, though the planning area is not especially prepared for a long duration event, if it would occur.

PAGE INTENTIONALLY LEFT BLANK.

3.5 Hazard Impacts

This section provides a narrative overview of each hazard's impact on the planning area, based on previous findings within this section. These descriptions were compiled using guidance from FEMA Region IV, which recommends using the strongest reported incidence when describing impact.

Dam Failure

According to the Risk Impact Assessment, the dam failure hazard scored a value of 2.1 (on a scale of 0 to 4).

Table 3.32 Risk Impact Assessment for Dam Failure

Probability	Very Low
Impact	Critical
Location Extent	Small
Warning Time	6 to 12 hours
Duration	Less than 24 hours

There are 73 dams listed in the National Inventory of Dams (NID) database for the planning region. Of these dams, three are classified as high hazard dams. High hazard dams in the division have the following designated uses: recreation, flood control, fish and wildlife, and navigation.

Dam regulation and research is an ongoing hazard mitigation issue in the State of Alabama. Currently, there are no state laws to regulate existing private dams or the construction of new private dams that do not require federal licenses or inspections. The ADECA Office of Water Resources is currently conducting a dam study, as data listed within the National Inventory of Dams (NID) is outdated and not entirely accurate. Once ADECA's dam assessment is complete, information regarding high hazard dams should allow for additional studies pertaining to potential vulnerability of this hazard.

Due to the lack of dam data, information pertaining to potential damages from dam failure is limited at the current time. An estimate of potential dam failure damages regionally over a long period of time yields a very low loss estimate in the planning region. As better data becomes available, more detailed impacts by jurisdiction can be provided.

Drought/Extreme Heat

According to the Risk Impact Assessment, the drought/extreme heat hazard scored a value of 2.3 (on a scale of 0 to 4).

Table 3.33 Risk Impact Assessment for Drought/Extreme Heat

Probability	Medium
Impact	Minor
Location Extent	Moderate
Warning Time	More than 24 hours
Duration	More than one week

Both extreme heat and drought can occur at any location in the planning area making the potential impact across all jurisdictions in the division constant. All new and existing buildings/infrastructure, facilities, natural resources, wildlife, and the general population are vulnerable to these hazards and their impacts. Due to the nature of these hazards, it is difficult to estimate losses that may result as little methodology exists.

Droughts can have wide ranging impacts. In the planning area, only Escambia County has experienced a drought since 2000. Two droughts occurred in 2016 and were D-3 and D-3/D-2 respectively. D4 drought conditions are certainly possible and can lead to economic losses due to insufficient water for large agricultural operations. Households that depend on private wells for potable water are affected as groundwater levels decrease. There is also an increased risk of wildfires resulting from these conditions.

The most significant impact of extreme heat is on vulnerable populations' health. Vulnerable populations include the young, the elderly, and those with respiratory problems. Extreme heat can lead to heatstroke, heat cramps, and heat exhaustion. A widespread extreme heat event could possibly overcrowd local clinics with persons suffering from the heat's effects. In addition to health-related effects, increased use of electricity to run fans and air conditioners may overextend electric utilities. All of the planning area is subject to extreme temperatures.

Due to ongoing planning and these hazards being relatively common in Alabama due to its subtropical climate, anticipated future damages or losses are expected to be minimal.

Earthquakes

According to the Risk Impact Assessment, the earthquake hazard scored a value of 2.1 (on a scale of 0 to 4).

Table 3.34 Risk Impact Assessment for Earthquakes

Probability	Medium
Impact	Minor
Location Extent	Small
Warning Time	Less than 6 hours
Duration	Less than 6 hours

Since 1974, there have been 21 recorded earthquakes in SARPC's planning area, and none above a 5 on the Richter scale. All but two of these earthquakes occurred in Escambia County, and none in Baldwin County. These occurrences have happened in Escambia and Mobile Counties, but not Baldwin County.

The possibility of earthquakes occurring in the planning area is medium, however, due to the unlikeliness of a strong magnitude earthquake, the risk of impact is minor and the area of impact also small.

Flooding

According to the Risk Impact Assessment, the flooding hazard scored a value of 3.3 (on a scale of 0 to 4).

Probability High

Impact Critical

Location Extent Moderate

Warning Time 6-12 hours

Duration Less than one week

Table 3.35 Risk Impact Assessment for Flooding

Figures 3.6 to 3.39 provide floodplain areas for each county in the planning area. River flooding is classified as minor, moderate, or major based on water height and impacts along the river that have been coordinated with the NWS and local officials. Minor river flooding means that low-lying areas adjacent to the stream or river, mainly rural areas and farmland and secondary roadways near the river, flood. This level of flooding is common in the planning area. Moderate flooding means water levels rise high enough to impact homes and businesses near the river and some evacuations may be needed. This level of flooding occurs less often in the area but is expected to happen annually. Major flooding means that extensive rural and/or urban flooding is expected. Towns may become isolated and major traffic routes may be flooded. Evacuation of numerous homes and business may be required. This level of flooding is rare in the planning area except for coastal flooding which is usually due to tropical weather systems. In the case of tropical systems, there is usually enough advance warning that people can prepare and evacuate.

Flash floods may lead to property damage or loss depending on severity. Their rapid onset makes them even more deadly. Often waters rise so quickly that people have little time to protect themselves. These floods can also lead to death and injury. Flash flooding on roadways is a major risk. Many times, drivers underestimate water depth and become stranded in floodwaters. Residents in the areas identified as flooding frequently are at the greatest danger for this hazard.

As development increases, the risk for flash flooding will increase as impermeable surfaces increase. Aging drainage infrastructure will contribute to an increase in flash flooding also. Based on the information provided in this profile, the probability of future flood events is High. Roads often suffer the greatest impacts as their base layer becomes compromised from standing

water. Standing water also lead to cracks and damage to asphalt. Due to their nature, these floods are very dangerous. Often these events are localized and have a rapid onset, making them hard to predict. Deaths occur each year from vehicles being swept away in flood waters. A mere six inches of fast-moving flood water can knock over an adult. It takes only two feet of rushing water to carry away most vehicles, including pickups and SUVs.

Total potential loss data is incomplete due to the incompatibility of HAZUS-MH with SARPC's GIS system. Therefore, analysis from the HAZUS-MH flood model will be incorporated in the

next plan update. Information pertaining to historical insured flood losses and repetitive flooded properties are included to provide more detailed information of areal losses based from flooding.

Historical Flood Losses

According to FEMA flood insurance policy records as of January 28, 2021, there have been 29,185 flood losses reported through the NFIP since 1970 in the planning area, totaling \$401,896,656 in claims payments. A summary of these figures is provided in Table 3.36. It should be noted that these loss numbers only include structures that were insured through NFIP and that were reported. It is likely that there are many other flood losses not reported, in uninsured structures, or denied payment

Table 3.36 Historical Summary of Insured Flood Losses

Jurisdiction	Flood Losses	Claims Payments
Baldwin County Total (Municipalities + Unincorporated)	26,552	\$329,249,754
City of Bay Minette	17	\$129,332
City of Daphne	87	\$1,971,627
Town of Elberta	200	\$8,936,847
City of Fairhope	700	\$18,934,910
City of Foley	228	\$9,810,551
City of Gulf Shores	10,494	\$97,545,682
Town of Loxley	8	\$157,767
Town of Magnolia Springs	99	\$2,511,728
City of Orange Beach	13,987	\$158,934,367
Town of Perdido Beach	28	\$1,147,434
City of Robertsdale	18	\$496,880
Town of Silverhill	29	\$1,252,809
City of Spanish Fort	41	\$2,797,267
Town of Summerdale	80	\$2,961,572
Escambia County Total (Municipalities + Unincorporated)	101	\$5,413,206
City of Atmore	33	\$550,726
City of Brewton	62	\$4,779,651
City of East Brewton	3	\$17,364
Town of Flomaton	1	\$9,464
Town of Pollard	-	-
Town of Riverview	-	-
Mobile County Total (Municipalities + Unincorporated)	2,532	\$67,233,696
City of Bayou La Batre	236	\$14,905,560
City of Chickasaw	112	\$2,877,653
City of Citronelle	1	\$0

Jurisdiction	Flood Losses	Claims Payments
City of Creola	5	\$2,612
Town of Dauphin Island	1,587	\$40,721,785
City of Mobile	291	\$5,412,191
Town of Mount Vernon	-	-
City of Prichard	56	\$326,423
City of Saraland	149	\$1,164,141
City of Satsuma	7	\$108,971
City of Semmes	1	\$950

Source: Federal Emergency Management Agency, National Flood Insurance Program

Repetitive Loss Properties

A repetitive loss property is an insurable structure that has had two or more claims of more than \$1,000 within any ten-year period since 1978. A repetitive loss property may or may not be currently insured by the National Flood Insurance Program (NFIP). The following is a discussion of repetitive loss properties by county and jurisdiction:

Table 3.37 Repetitive Loss Properties in the NFIP

Community Name	Occupancy	FMA RL Properties	Insured FMA RL Properties	Total Paid in Claims on FMA RL Properties	NFIP RL Properties	Insured NFIP RL Properties	Total Paid in Claims on NFIP RL Properties
BALDWIN COUNTY							
UNINCORPORATED	2-4 FAMILY	-	-	\$0.00	4	1	\$157,639
UNINCORPORATED	ASSMD CONDO	-	-	\$0.00	4	3	\$202,344.95
UNINCORPORATED	ASSMD CONDO	3	2	\$513,081.77	3	2	\$715,911.96
UNINCORPORATED	OTHER RESID	-	-	\$0.00	1	-	\$90,548.17
UNINCORPORATED	OTHR- NONRES	-	-	\$0.00	4	2	\$560,533.13
UNINCORPORATED	SINGLE FMLY	-	-	\$0.00	316	192	\$17,814,772.34
UNINCORPORATED	SINGLE FMLY	94	39	\$17,460,337.97	111	37	\$21,587,340.28
BAY MINETTE	2-4 FAMILY	-	-	\$0.00	1	-	\$21,870.89
DAPHNE	SINGLE FMLY	-	-	\$0.00	12	5	\$685,153.71
DAPHNE	SINGLE FMLY	2	1	\$407,129.19	3	1	\$528,755.01

Community Name	Occupancy	FMA RL Properties	Insured FMA RL Properties	Total Paid in Claims on FMA RL Properties	NFIP RL Properties	Insured NFIP RL Properties	Total Paid in Claims on NFIP RL Properties
	SINGLE						
ELBERTA	FMLY	-	-	\$0.00	1	1	\$89,462.70
ELBERTA	SINGLE FMLY	1	_	\$439,501.68	1		\$467.662.26
ELDENIA	FIVILT	1	-	\$459,501.00	1	-	\$467,662.36
	ASSMD						
FAIRHOPE	CONDO	-	-	\$0.00	1	1	\$432,894.52
	ASSMD						
FAIRHOPE	CONDO	3	1	\$1,016,098.60	4	1	\$3,744,688.77
	BUSI-NON-		_	ψ <u>1</u> ,010,050.00		_	φο,ν,σσσν
FAIRHOPE	RES	-	-	\$0.00	1	-	\$11,918.69
	OTHER						
FAIRHOPE	RESID	-	-	\$0.00	1	-	\$29,270.97
	OTHER						
FAIRHOPE	RESID	1	-	\$89,211.05	1	-	\$89,211.05
	OTHR-						
FAIRHOPE	NONRES	1	_	\$315,926.60	2	_	\$1,155,513.45
174114110112	SINGLE			ψ313)320.00	_		ψ1,133,313.13
FAIRHOPE	FMLY	-	-	\$0.00	42	18	\$4,085,403.49
	SINGLE						
FAIRHOPE	FMLY	9	4	\$1,790,056.10	12	4	\$2,276,890.62
	ASSMD						
FOLEY	CONDO	_	_	\$0.00	1	_	\$51,259.02
TOLLI	SINGLE	_	_	Ş0.00	1		\$31,239.02
FOLEY	FMLY	-	_	\$0.00	6	5	\$814,192.84
				·			. ,
GULF SHORES	2-4 FAMILY	-	-	\$0.00	81	45	\$3,681,980.77
GULF SHORES	2-4 FAMILY	4	2	\$526,003.62	14	2	\$1,990,613.15
	ASSMD						
GULF SHORES	CONDO	_	_	\$0.00	27	18	\$6,758,657.34
				,			, , , , , , , , , , , , , , , , , , , ,
	ASSMD	_	_	4. 4.4	_		4
GULF SHORES	CONDO	3	1	\$1,049,677.41	7	1	\$5,931,438.84
GULF SHORES	OTHER RESID			\$0.00	69	36	\$12,990,228.75
GOLF SHORES	OTHER	-	-	\$0.00	09	30	\$12,990,228.73
GULF SHORES	RESID	5	_	\$1,781,354.49	23	_	\$11,888,633.59
				, , , , , , , , , , , , , , , , , , , ,			, , , , , , , , , , , , , , , , , , , ,
a	OTHR-			4			40.40
GULF SHORES	NONRES	-	-	\$0.00	35	15	\$6,122,518.71
	OTHR-						
GULF SHORES	NONRES	9	2	\$4,710,095.32	14	2	\$9,550,615.80
	SINGLE						
GULF SHORES	FMLY	-	-	\$0.00	891	555	\$37,109,312.62
	SINGLE						
GULF SHORES	FMLY	76	28	\$7,842,413.55	138	27	\$16,402,489.81
LOVIEV	SINGLE			40.00	_		605 600 00
LOXLEY	FMLY	-	-	\$0.00	2	1	\$85,689.03

Community Name	Occupancy	FMA RL Properties	Insured FMA RL Properties	Total Paid in Claims on FMA RL Properties	NFIP RL Properties	Insured NFIP RL Properties	Total Paid in Claims on NFIP RL Properties
LOVIEV	SINGLE	1		¢57.700.42			Ć02 424 FC
LOXLEY	FMLY	1	-	\$57,760.13	1	-	\$92,121.56
ORANGE BEACH	2-4 FAMILY	-	-	\$0.00	9	6	\$737,576.74
	ASSMD					_	4
ORANGE BEACH	CONDO	-	-	\$0.00	10	7	\$15,500,385.07
ORANGE BEACH	OTHER RESID	-	-	\$0.00	21	15	\$18,414,723.23
	OTHER				_		4
ORANGE BEACH	RESID	2	-	\$2,539,441.96	6	-	\$11,415,614.84
ORANGE BEACH	OTHR- NONRES	-	-	\$0.00	9	7	\$5,950,328.64
ODANICE DEACH	OTHR-	1	1	¢250.055.25	2	1	Ć1 040 044 1C
ORANGE BEACH	NONRES SINGLE	1	1	\$250,855.25	3	1	\$1,849,944.16
ORANGE BEACH	FMLY	-	-	\$0.00	116	66	\$5,072,425.52
ORANGE BEACH	SINGLE FMLY	12	1	\$2,201,488.03	21	1	\$3,413,499.31
DODEDTOD ALE	OTHER			40.00			¢224 220 7 0
ROBERTSDALE	RESID SINGLE	-	-	\$0.00	2	2	\$334,229.79
SILVERHILL	FMLY	-	-	\$0.00	1	-	\$33,405.71
SPANISH FORT	OTHR- NONRES	-	-	\$0.00	4	-	\$284,418.92
SPANISH FORT	SINGLE FMLY	-	-	\$0.00	3	-	\$480,352.88
SPANISH FORT	SINGLE FMLY	1	_	\$274,681.50	1	_	\$313,765.06
31711131113111	114121			ψ <u>2</u> 7 1,002.30			φ323,7 63.66
TOTAL BALDWIN COL	JNTY	228	82	\$43,265,114.22	2,040	1,080	\$232,018,207.87
F	_		1				
ESCAMBIA COUNTY							
	OTHR-						
ATMORE	NONRES	_	_	\$0.00	1	_	\$20,183.18
	SINGLE			ψ0.00			+20,100.10
ATMORE	FMLY	-	-	\$0.00	6	1	\$345,737.42
ATMORE	SINGLE			60.00			Ć02.026.04
ATMORE	FMLY	-	-	\$0.00	1	-	\$82,936.01
BREWTON	ASSMD CONDO	_	-	\$0.00	1	1	\$205,618.33
S.KE VV I O.IV				70.00	1		\$203,010.33
BREWTON	OTHR- NONRES	-	-	\$0.00	19	6	\$3,231,933.55
BREWTON	OTHR- NONRES	1	_	\$43,872.40	2	_	\$1,613,490.40
	HOMILO		<u> </u>	7-3,072.70		l .	₹ ±,0±3, 1 30.70

Community Name	Occupancy	FMA RL Properties	Insured FMA RL Properties	Total Paid in Claims on FMA RL Properties	NFIP RL Properties	Insured NFIP RL Properties	Total Paid in Claims on NFIP RL Properties
BREWTON	SINGLE FMLY	-	-	\$0.00	3	-	\$142,851.00
EAST BREWTON	OTHR- NONRES	-	-	\$0.00	2	-	\$344,194.82
EAST BREWTON	OTHR- NONRES	1	-	\$140,022.47	2	-	\$427,519.03
EAST BREWTON	SINGLE FMLY	-	-	\$0.00	1	-	\$33,324.18
EAST BREWTON	SINGLE FMLY	1	-	\$33,741.82	1	-	\$49,564.01
UNINCORPORATED	SINGLE FMLY	-	-	\$0.00	2	-	\$119,473.68
TOTAL ESCAMBIA CO	OUNTY	3	-	\$217,636.69	41	8	\$6,616,825.61
MOBILE COUNTY							
UNINCORPORATED	ASSMD CONDO	-	-	\$0.00	1	1	\$71,640.25
UNINCORPORATED	ASSMD CONDO	1	-	\$273,506.00	1	-	\$357,135.27
UNINCORPORATED	BUSI-NON- RES	-	-	\$0.00	1	-	\$359,156.04
UNINCORPORATED	OTHER RESID	-	-	\$0.00	1	-	\$59,409.69
UNINCORPORATED	OTHR- NONRES	-	-	\$0.00	4	1	\$607,083.39
UNINCORPORATED	OTHR- NONRES	2	-	\$202,996.80	3	-	\$289,853.78
UNINCORPORATED	SINGLE FMLY	-	-	\$0.00	162	75	\$9,453,650.93
UNINCORPORATED	SINGLE FMLY	63	11	\$6,793,590.14	68	11	\$8,184,190.01
BAYOU LA BATRE	ASSMD CONDO	1	-	\$1,466,733.38	3	-	\$2,290,079.49
BAYOU LA BATRE	OTHR- NONRES	-	-	\$0.00	18	2	\$3,854,875.82
BAYOU LA BATRE	OTHR- NONRES	2	1	\$595,023.11	4	1	\$929,104.44
BAYOU LA BATRE	SINGLE FMLY	-	-	\$0.00	28	10	\$2,505,797.46
BAYOU LA BATRE	SINGLE FMLY	18	5	\$1,466,346.28	16	3	\$1,363,714.69
CHICKASAW	OTHR- NONRES	-	-	\$0.00	1	-	\$126,270.25

Community Name	Occupancy	FMA RL Properties	Insured FMA RL Properties	Total Paid in Claims on FMA RL Properties	NFIP RL Properties	Insured NFIP RL Properties	Total Paid in Claims on NFIP RL Properties
CHICKACANA	SINGLE			40.00	25		42.040.546.50
CHICKASAW	FMLY SINGLE	-	-	\$0.00	25	9	\$2,018,546.59
CHICKASAW	FMLY	6	2	\$860,359.21	5	1	\$721,195.69
DAUPHIN ISLAND	2-4 FAMILY	-	-	\$0.00	13	6	\$407,429.51
DAUPHIN ISLAND	2-4 FAMILY	2	1	\$378,749.05	2	1	\$451,390.31
DAUPHIN ISLAND	ASSMD CONDO	-	-	\$0.00	6	6	\$3,808,552.32
DAUPHIN ISLAND	ASSMD CONDO	2	1	\$234,076.02	2	1	\$288,474.00
DAUPHIN ISLAND	BUSI-NON- RES	1	-	\$89,193.28	1	-	\$117,183.99
DAUPHIN ISLAND	OTHER RESID	-	-	\$0.00	4	4	\$331,022.37
DAUPHIN ISLAND	OTHR- NONRES	-	-	\$0.00	15	5	\$720,835.23
DAUPHIN ISLAND	OTHR- NONRES	1	-	\$384,931.70	2	-	\$663,761.52
DAUPHIN ISLAND	SINGLE FMLY	-	-	\$0.00	420	320	\$19,200,234.31
DAUPHIN ISLAND	SINGLE FMLY	98	37	\$16,272,499.92	158	39	\$28,934,592.20
MOBILE	2-4 FAMILY	-	-	\$0.00	1	1	\$14,643.00
MOBILE	ASSMD CONDO	-	-	\$0.00	8	4	\$1,231,128.54
MOBILE	ASSMD CONDO	1	-	\$232,866.01	1	-	\$240,941.26
MOBILE	BUSI-NON- RES	_	_	\$0.00	2	2	\$647,206.86
MOBILE	BUSI-NON- RES	1	1	\$192,400.00	1	1	\$339,950.08
MOBILE	OTHER RESID	-	-	\$0.00	19	2	\$811,436.49
MOBILE	OTHER RESID	-	-	\$0.00	2	-	\$335,356.24
MOBILE	OTHR- NONRES	-	-	\$0.00	43	11	\$8,220,524.81
MOBILE	OTHR- NONRES	4	-	\$1,084,240.55	9	-	\$4,486,270.17
MOBILE	SINGLE FMLY	-	-	\$0.00	253	87	\$13,903,326.72
MOBILE	SINGLE FMLY	95	20	\$11,932,019.60	107	19	\$14,877,799.01

Community Name	Occupancy	FMA RL Properties	Insured FMA RL Properties	Total Paid in Claims on FMA RL Properties	NFIP RL Properties	Insured NFIP RL Properties	Total Paid in Claims on NFIP RL Properties
PRICHARD	2-4 FAMILY	-	_	\$0.00	2	-	\$44,022.96
PRICHARD	OTHER RESID	-	-	\$0.00	1	-	\$48,378.74
PRICHARD	SINGLE FMLY	-	-	\$0.00	11	1	\$223,138.83
PRICHARD	SINGLE FMLY	2	-	\$92,638.30	2	-	\$151,456.08
SARALAND	2-4 FAMILY	-	-	\$0.00	1	1	\$13,367.66
SARALAND	ASSMD CONDO	-	-	\$0.00	1	-	\$83,178.43
SARALAND	OTHER RESID	-	-	\$0.00	1	-	\$5,499.00
SARALAND	OTHR- NONRES	-	-	\$0.00	3	-	\$39,312.15
SARALAND	SINGLE FMLY	-	-	\$0.00	28	12	\$893,096.64
SARALAND	SINGLE FMLY	3	-	\$215,963.29	6	-	\$441,386.48
SATSUMA	SINGLE FMLY	-	-	\$0.00	15	1	\$447,240.29
SATSUMA	SINGLE FMLY	2	2	\$165,406.86	3	2	\$292,713.04
TOTAL MOBILE COUN	ITY	239	70	\$35,663,446.56	1,243	552	\$116,524,433.67

High Winds – Hurricanes

According to the Risk Impact Assessment, the hurricane hazard scored a value of 3.2 (on a scale of 0 to 4).

Table 3.38 Risk Impact Assessment for Hurricanes

Probability	Medium
Impact	Catastrophic
Location Extent	Large
Warning Time	More than 24 hours
Duration	Less than 24 hours

Because hurricanes and other tropical events commonly affect a large spatial area, all existing and future buildings, facilities, and the general population in the planning area are vulnerable to this hazard and its impacts. The planning area includes coastal areas in Baldwin and Mobile County

and is at a higher risk than other non-coastal areas. The intensity of tropical systems affecting the Gulf Coast can remain high as these storms travel inland into the region.

Severe storms, tornadoes, high winds, hail, torrential rains, river flooding, and flash flooding are all associated with tropical systems as they move inland. Again, the coastal areas in the planning area are associated with a higher risk than the inland areas of the region. The loss of life, property, and possessions is greater in coastal areas, but can certainly can occur inland. Interruption of utility and communication service is expected. Tornadoes and flash flooding can occur secondary to the tropical systems and where warning time may be short or nonexistent the risk factors are higher. Low-lying areas and areas prone to flooding are at higher risk of damage. Another concern is the large amount of debris that results. Normally there are a few days of warnings before a tropical system impacts the planning area allowing for preparations and evacuations.

The landscape of the counties within the planning area is heavily wooded, which leads to the possibility of significant tree and property damage. Debris removal can become a major cost for local governments. Flooding may lead to property damage, disruption in utility services, roadway damage, injury to residents, and death. High winds can also cause significant damage to homes, buildings, and utility infrastructure. The threat of injury and death is present.

High Winds – Tornadoes

According to the Risk Impact Assessment, the tornado hazard scored a value of 3.0 (on a scale of 0 to 4).

Probability High

Impact Critical

Location Extent Small

Warning Time Less than 6 hours

Duration Less than 6 hours

Table 3.39 Risk Impact Assessment for Tornadoes

Tornadoes are not constrained to follow any definite path, so every area and every resident the planning area is at risk. A tornadoes path is generally 300-400 yards wide and four miles long (NOAA 1973). Areas within that path may suffer from slight to severe damage depending on the tornado's strength. Injury and death can occur as a result of even the weakest tornado.

Because tornadoes may touch down anywhere within the division, all existing and future buildings, facilities, and the general population in the ten counties are vulnerable to this hazard and its impacts. Tornadoes can occur during hurricane events or other severe thunderstorm events, which can create multiple impacts. The most likely time for tornadoes is during the spring months from March through May, with a secondary peak of tornado activity in November, but tornadoes can occur in every month of the year.

Tornadoes present the most frequent hazard and most likely source of property damage and injury in the planning area from a natural hazard. Tornadoes are possibly more destructive than hurricanes, but impacts are far more localized. Even though favorable conditions for tornadoes can be forecasted in advance, the location of a tornado is unknown until a few moments before the storm occurs.

The effects of any tornado may be far reaching. Life, property, and personal items are all at risk. Interruption of electric, telephone and other utility and communications services may occur. Transportation corridors may be blocked or in some cases destroyed. Debris must be removed, and this is often a costly task. Citizens may suffer from posttraumatic syndrome, depression, anxiety, and grief for lost loved ones. When large storms with widespread damage and injuries occur, rural areas have a more difficult time responding to all calls they receive.

Table 3.40 provides a county-by-county description of impact based on historical data for the past 6 years. In addition, each county has also experienced numerous tornadoes rating a 0 or 1.

Table 3.40 Potential Impact of Tornadic Events by County SARPC's Division A Region

Baldwin	F2 (Fujita Scale) 113-157 mph	Considerable Damage: Roofs torn off frame houses; mobile homes demolished; boxcars overturned; large trees snapped or uprooted; light-object missiles generated; cars lifted off ground.
County	F3 (Fujita Scale) 158-207 mph	Severe Damage: Roofs and some walls torn off well-constructed houses; trains overturned; most trees in forest uprooted; heavy cars lifted off the ground and thrown.
Escambia County	EF2 (Enhanced Fujita Scale) 111-135 mph	Considerable Damage: Roofs torn off frame houses; mobile homes demolished; boxcars overturned; large trees snapped or uprooted; light-object missiles generated; cars lifted off ground.
Mobile County	F2 (Fujita Scale) 113-157 mph	Considerable Damage: Roofs torn off frame houses; mobile homes demolished; boxcars overturned; large trees snapped or uprooted; light-object missiles generated; cars lifted off ground.
	F3 (Fujita Scale) 158-207 mph	Severe Damage: Roofs and some walls torn off well-constructed houses; trains overturned; most trees in forest uprooted; heavy cars lifted off the ground and thrown.

Source: NOAA Storms Database/ Fujita Damage Scale

High Winds / Severe Thunderstorms

According to the Risk Impact Assessment, the severe thunderstorm hazard scored a value of 2.8 (on a scale of 0 to 4).

Table 3.41 Risk Impact Assessment for Severe Thunderstorms

Probability	High
Impact	Minor
Location Extent	Moderate
Warning Time	Less than 6 hours
Duration	Less than 6 hours

Because severe thunderstorms with high winds may occur at any location within the planning area, all existing and future buildings, facilities, and the general population in the planning area are vulnerable to this hazard and its impacts.

Severe thunderstorms with high winds can produce similar effects to tornadoes and hurricanes. These effects will be more localized than hurricane events but more widespread than tornadoes. Past occurrences of high winds associated with severe thunderstorms have been recorded in each county in the planning area.

Since 1994, the highest wind speed measured in Baldwin County was 104 knots, and there were 10 other occurrences with speeds of over 70 knots. Escambia County has a 90 knot wind gust on record and six other reports of speeds over 70. Mobile County's highest recorded speed since 1994 was 88 knots, with 11 other events with speeds over 70. Winds this high can be expected to cause downed trees and power lines, and flying debris. They may lead to power outages, transportation disruptions, damage to buildings and vehicles, and injury or death.

Landslides

According to the Risk Impact Assessment, the landslide hazard scored a value of 1.6 (from a scale of 0 to 4).

Table 3.42 Risk Impact Assessment for Landslides

Probability	Low
Impact	Minor
Location Extent	Negligible
Warning Time	Less than 6 hours
Duration	Less than 6 hours

Information from the Geological Survey of Alabama shows that historical landslide events have occurred in the planning area, but information about specific slides is sparse. One can get a general idea of the likelihood for landslide events to occur by examining Figures 3.53-3.55, which provide visual depictions of areas with higher susceptibility. Due to the lack of substantive documentation of previous events, it is assumed that landslides events may occur at any location within the planning area, all existing and future buildings, facilities, and the general population in the planning area is considered to be vulnerable to this hazard and its impacts. With little recorded activity and documentation, it is believed that any potential losses in the planning area would be minor in scope.

Land Subsidence / Sinkholes

According to the Risk Impact Assessment, the land subsidence / sinkhole hazard scored a value of 1.8 (on a scale of 0 to 4).

Table 3.43 Risk Impact Assessment for Land Subsidence / Sinkholes

Probability	Low
Impact	Minor
Location Extent	Small
Warning Time	Less than 6 hours
Duration	Less than 6 hours

Information from the Geological Survey of Alabama shows that geology conducive to sinkholes and other forms of land subsidence exists within the planning area. One can get a general idea of areas more likely for land subsidence to occur by examining Figure 3.57, which depicts the karst topography and topographic depressions in the region. Due to the lack of substantive documentation of previous events, it is assumed that land subsidence events may occur at any location within the planning area; all existing and future buildings, facilities, and the general population in the planning area are considered to be vulnerable to this hazard and its impacts. With little recorded activity and documentation, it is believed that any potential losses in the planning area would be minor in scope.

Wildfires

According to the Risk Impact Assessment, the wildfire hazard scored a value of 2.8 (on a scale of 0 to 4).

Table 3.44 Risk Impact Assessment for Wildfires

Probability	High
Impact	Minor
Location Extent	Moderate
Warning Time	Less than 6 hours
Duration	Less than one week

Due to the large areas of forest-covered land in the planning area, wildfires are a threat to all four counties. Potential risk by jurisdiction can be seen from examining Figures 3.77 to 3.84 of this document. The potential impact of wildfires is consistent across all jurisdictions in the division. Damage to timber land and wildlife habitat are the primary impacts. If factors such as winds and drought are present, wildfires may spread from forested areas to areas with residential structures.

In the event of wildfires, structures in less populated areas in the proximity of the forested areas could be at risk of fire damage. Though all the planning area's residents are at least somewhat vulnerable to wildfires, areas in isolated unincorporated areas are at a higher vulnerability according to the Alabama Forestry Commission.

The impact of a wildfire event is dependent on many factors including weather conditions, available fuel, topography, and existing wildfire mitigation capabilities. In more densely populated areas the impact of a wildfire is expected to be much greater.

Winter Storms

According to the Risk Impact Assessment, the winter storm hazard scored a value of 2.4 (on a scale of 0 to 4).

Table 3.45 Risk Impact Assessment for Winter Storms

Probability	Low
Impact	Limited
Location Extent	Large
Warning Time	More than 24 hours
Duration	Less than one week

Historical records show the planning area has occasional instances of winter weather, which is primarily through frozen precipitation (snow/ice) that only affects the area for a few days at the most. The impacts of these storms are generally the result of the infrequency of their occurrence.

Because winter weather events may occur at any location within the planning area, all existing and future buildings, facilities, and the general population in the planning area are vulnerable to this hazard and its impacts. Winter weather events will affect those in vulnerable housing more severely than other areas.

Section 4- Mitigation Strategy

This Mitigation Strategy section of the plan addresses requirements of Section 201.6(c)(3) through providing the blueprint for participating jurisdictions in the AEMA Division A to practice becoming less vulnerable to the identified hazards in the Risk Assessment.

Section Contents

- 4.1 Mitigation Planning Process
- 4.2 Regional Mitigation Goals
- 4.3 Regional Mitigation Strategies
- 4.4 Capabilities Assessment for Local Jurisdictions
- 4.5 Jurisdictional Mitigation Action Plans
 - 4.5.1 SARPC Mitigation Action Plans
 - 4.5.2 Baldwin County Mitigation Action Plans
 - 4.5.3 Escambia County Mitigation Action Plans
 - 4.5.4 Mobile County Mitigation Action Plans

4.1 Mitigation Planning Process

Local planning stakeholders were asked to review the progress of their previously adopted mitigation goals and to reevaluate those strategies based on updated information from the Risk Assessment and vulnerability to each profiled hazard. The goals and strategies were reviewed considering the impact and extent of hazard occurrences in local jurisdictions and the region.

4.2 Regional Mitigation Goals

Mitigation goals are broad policy-type statements that focus on long-term visions to reduce or avoid vulnerabilities to identified hazards within the region. Through the planning process, six primary goals were developed from corresponding goals in previous local mitigation plans. The mitigation goals expected to be achieved by development, adoption, and continuation of the new Division A plan include:

- 1. Manage the development of land and buildings to minimize risk of life and property loss due to hazard events (PREVENTION).
- 2. Protect structures and their occupants and contents from the damaging effects of hazard events (PROPERTY PROTECTION).
- 3. Preserve, rehabilitate, and enhance the beneficial functions of the natural environment to promote a balance between natural systems and social and economic demands (NATU-RAL RESOURCE PROTECTION).
- 4. Apply engineered structural modifications to natural systems and public infrastructure to reduce the potentially damaging impacts of hazards, where those modifications are feasible and environmentally suitable (STRUCTURAL MITIGATION).
- 5. Improve the efficiency, timing, and effectiveness of response and recovery efforts for hazard events (EMERGENCY SERVICES).
- 6. Educate and foster public awareness of hazards and techniques available for mitigation (PUBLIC EDUCATION AND AWARENESS).

4.3 Regional Mitigation Strategies

Mitigation strategies are more defined actions that help further define mitigation goals. A wide range of activities that are aligned with the six goal categorizations were considered. These activities were analyzed by their ability to help achieve established mitigation goals, emphasizing actions addressing new and existing buildings and infrastructure. These strategies provide additional background to addressing specific hazard concerns.

Land use planning capacity in most of the region is limited due to the lack of regulatory authority in unincorporated areas, except for floodplain management and subdivision regulations. Many small municipalities have limited to no planning and building enforcement function due to fiscal constraints and lack of expertise. The majority choose not to implement land use, zoning, or code enforcement mechanisms.

The six goal categorizations used for mitigation strategies include: Prevention, Property Protection, Natural Resource Protection, Structural Mitigation, Emergency Services, and Public Awareness and Education. These are discussed in detail below. This discussion includes identifying the appropriate hazard(s) that are mitigated through these approaches.

Goal #1: Prevention

Prevention activities are primarily intended to address future development and to keep hazard effects from increasing. Prevention activities are often administered through government programs or regulatory actions that influence the built environment. These activities are particularly effective in hazard mitigation for areas with little current capital investment or development. Examples of prevention activities include:

- 1. Land use planning and zoning administration (All Hazards, primarily Flooding)
- 2. Building code enforcement program (Flooding, High Winds)
- 3. Open space preservation (Flooding)
- 4. Floodplain management regulations (Flooding)
- 5. Stormwater management regulations (Flooding)
- 6. Participation in National Flood Insurance Program (NFIP) (Flooding)
- 7. Capital improvements planning (All Hazards)

Goal #2: Property Protection

Property protection activities primarily concentrate on the modification of existing buildings and adjacent areas to strengthen their ability to withstand hazard events, or to remove an at-risk structure from hazardous locations. Examples of property protection activities include:

- 1. Acquisition of flood prone properties (Flooding)
- 2. Relocation of flood prone structures (Flooding)
- 3. Elevation of flood prone structures (Flooding)
- 4. Retrofitting of critical facilities and other structures (All Hazards)

Goal #3: Natural Resource Protection

Natural resource protection activities reduce the impact of hazard events by preserving, rehabilitating, or enhancing the natural environment and its protective functions. These activities would include areas such as floodplains, wetlands, and steep slopes. Examples of natural resource protection activities include:

- 1. Floodplain protection (Flooding)
- 2. Watershed management (Flooding)
- 3. Riparian buffers (Flooding)
- 4. Forest and vegetation management (Flooding, Wildfire)
- 5. Conservation easements (Flooding, Land Subsidence)

Goal #4: Structural Mitigation

Structural mitigation protection activities are intended to lessen the impact of a hazard by utilizing construction of an appropriate structure. Examples of structural mitigation protection activities include:

- 1. Reservoirs (Flooding)
- 2. Levees and dams (Flooding)
- 3. Stormwater diversion (Flooding)
- 4. Retention and detention structures (Flooding)
- 5. Safe rooms and shelters (High Winds, Extreme Temperatures)

Goal #5: Emergency Services

Emergency services protection activities involve protecting people and property before, during, and after a hazard event. These activities assist in providing capable actions regarding hazard events. Examples of emergency services activities include:

- 1. Warning alert systems (All Hazards)
- 2. Continuity of operations (All Hazards)
- 3. Evacuation routes (All Hazards)
- 4. Emergency responder training (All Hazards)
- 5. Provision of alternative power (e.g. generators) (All Hazards)
- 6. Debris removal (All Hazards)

Goal #6: Public Education and Awareness

Public education and awareness activities inform and remind residents, business owners, elected officials, and other stakeholders about hazards, vulnerable locations, and mitigation actions that can be used to avoid losses. Examples of public education and awareness activities include:

- 1. Information dissemination, including maps and websites displaying hazard information (All Hazards)
- 2. Public exposition or workshops (All Hazards)
- 3. Educational programs (All Hazards)
- 4. Real estate disclosures (Dam Failure, Flooding, Technological Hazards)

Section 4.4- Capabilities Assessment for Local Jurisdictions

A capability assessment examines the ability of each jurisdiction to implement a comprehensive mitigation strategy through examining existing programs, regulations, resources, and practices. This determination allows a jurisdiction to assess whether mitigation actions are feasible by considering funding options, political support, public support, legality, preservation of the environment, and staff capability.

The Alabama Emergency Management Agency (AEMA) Division A - SARPC Planning Area is composed of 31 municipalities with a myriad of governmental powers. All county governments are governed by an elected commission. All municipalities have a Mayor/Council form of government.

The mitigation strategies listed in Section 4.3 above are framed by the capacity and capability of local jurisdictions to implement those actions through existing authorities, policies, programs, and resources. For most jurisdictions in the planning area, these are limited. Authority to control development through land use planning and zoning, a critical tool in hazard mitigation, is vested in municipalities that choose to exercise this practice. However, capacity is limited for enforcement due to local expertise, financial constraints, and public acceptance. The State of Alabama does not require a jurisdiction to implement land use planning and associated regulations; therefore, most local jurisdictions avoid the practice for general purposes and for hazard mitigation. In unincorporated areas within county jurisdictions, this authority is largely absent except as it applies to flood control and public street and subdivision regulation. Flood control, more broadly, is authorized for each local jurisdiction to practice through a local ordinance regulating the placement and construction of new structures. Most municipalities and all counties participate in the National Flood Insurance Program (NFIP) and maintain compliance with the applicable regulations (Table 4.3). Likewise, the authority to enforce building codes is primarily restricted to municipalities and is only practiced by a limited number of these due to capacity constraints in the form of personnel, financial ability, and public acceptance.

Financial and technical capacity is limiting factors for implementation in most participating jurisdictions. The need for assistance in local planning and implementation is well established. Communities work together through the local EMA and their regional commission (SARPC) to meet gaps in technical capacity related to planning for mitigation. Local jurisdictions work with county EMAs to implement specific strategies. Authority over spending is vested in local elected or appointed boards and commissions. Primarily, the county commissions and local municipal councils have been the leaders in deciding which mitigation strategies are worthy of investment. Other eligible jurisdictions have traditionally channeled mitigation projects through these local governmental bodies for sponsoring; however, in some cases they may sponsor the project directly. The use of federal and state grants is a prevalent feature of the financial strategy for mitigation projects involving new construction and major rehabilitation of public facilities or expenditures.

The capabilities of each participating jurisdiction are defined by the authorities, policies, programs, and resources that each utilizes in pursuit of hazard mitigation. Each jurisdiction falls into one of several categories, which possesses distinct authorities and resources to establish hazard mitigation actions. For example, counties and municipalities differ in terms of statutory authority to pursue hazard mitigation. Meanwhile, two communities with the same authority may approach mitigation entirely differently in terms of the exercise of their authority. School and utility boards are subject to even greater restrictions on their authority.

The authorities and capabilities are summarized based on the powers granted by different units of government that participated in the planning process. A listing of these participants can be found in Table 2.1 of this plan.

Table 4.1 below summarizes the statutory authority and resources of each jurisdiction and its present use or intended future use of these powers to implement potential actions and types of actions listed in the hazard mitigation plan. The table describes powers or policies that are granted to different types of jurisdictions in general terms, describes the jurisdictions that currently apply those policies in their mitigation efforts, describes the jurisdictions that intend to apply those authorities and policies for future implementation, and describes the means by which each jurisdiction will incorporate the mitigation action into its existing powers, authorities, policies, and capabilities. In every case, the primary means of incorporation involves review of proposed actions and implementation through the appropriate governmental authority such as the city council, county commission, school board, or utility board.

Table 4.1 Statutory Authority and Resources

Division A Hazard Mitigation Action Plan: Capabilities Assessment	Authorized for:	Practiced by:	Proposed for:	Incorporated through:
Police power: Ability to regulate activities of individuals in the jurisdiction for pur- poses of health, safety, and public welfare	Municipalities, Counties	Baldwin County: Baldwin County Sheriff's Department, City of Bay Minette, City of Daphne, Town of Elberta, City of Fairhope, City of Foley, City of Gulf Shores, Town of Loxley, Town of Magnolia Springs, City of Orange Beach	All municipal jurisdictions	Council or Commission action to enact and enforce regulations
		Escambia County: Escambia County Sheriff's Department, City of Atmore, City of Brewton, City of East Brewton, Town of Flomaton, Town of Pollard, Town of Riverview		
		Mobile County: Mobile County Sheriff's Department, City of Bayou La Batre, City of Chickasaw, City of Creola, Town of Dauphin Island, City of Mobile, Town of Mount Vernon, City of Prichard, City of Saraland, City of Satsuma, City of Semmes		

Division A Hazard Mitigation Action Plan: Capabilities Assessment	Authorized for:	Practiced by:	Proposed for:	Incorporated through:
Control of public expenditures: Ability to acquire property and improve property owned by the jurisdiction, capacity to borrow and expend funds	Municipalities, Counties, School Boards, Utilities	All jurisdictions	All jurisdictions	Action to approve expenditures by local county commission, city council, school board, or utility board
Building code enforcement: Ability to enforce codes related to building materials and construction standards outside of flood hazard areas	Municipalities, Counties	Baldwin County: Baldwin County, City of Bay Minette, City of Daphne, Town of Elberta, City of Fairhope, City of Foley, City of Gulf Shores, Town of Loxley, Town of Magnolia Springs, City of Orange Beach Escambia County: City of Atmore, City of Brewton, City of East Brewton Mobile County: Mobile County, City of Bayou La		Council or Commission action to enact and enforce regulations
		Batre, City of Chickasaw, City of Citronelle, City of Creola, Town of Dauphin Island, City of Mobile, Town of Mount Vernon, City of Prichard, City of Saraland, City of Satsuma, City of Semmes		

Division A Hazard Mitigation Action Plan: Capabilities Assessment	Authorized for:	Practiced by:	Proposed for:	Incorporated through:
Floodplain management authority: Ability to regulate development in areas of special flood hazard in compliance with NFIP standards; includes authority to regulate land use and subdivisions inside of flood hazard areas	Municipalities, Counties	All participating NFIP jurisdictions	All participating NFIP jurisdictions	Council or Commission action to enact and enforce regulations
Capital improvements: Ability to plan public infrastructure to mitigate hazards	Municipalities, Counties, School Boards, Utilities	All jurisdictions	All jurisdictions	Action to approve expenditures by local county commission, city council, school board, or utility board
Purchase properties subject to flooding and maintain as permanent open space.	Municipalities, Counties, School Boards, Utilities	All Jurisdictions	All Jurisdictions	Action to approve expenditures by local county commission, city council, school board, or utility board

Division A Hazard Mitigation Action Plan: Capabilities Assessment	Authorized for:	Practiced by:	Proposed for:	Incorporated through:
Zoning authority: Ability to divide political jurisdiction into districts for purposes of regulating buildings and their use (inside and outside of flood hazard areas)	Municipalities	Baldwin County: Baldwin County, City of Bay Minette, City of Daphne, City of Fairhope, City of Foley, City of Gulf Shores, Town of Loxley, Town of Magnolia Springs, City of Orange Beach		Council action to enact and enforce regulations
		Escambia County: City of Atmore, City of Brewton, City of East Brewton,		
		Mobile County: City of Bayou La Batre, City of Chickasaw, City of Citronelle, City of Creola, Town of Dauphin Island, City of Mobile, Town of Mount Vernon, City of Prichard, City of Saraland, City of Satsuma		

Division A Hazard Mitigation Action Plan: Capabilities Assessment	Authorized for:	Practiced by:	Proposed for:	Incorporated through:
Subdivision regulations: A ability to control new developments involving new lot lines and infrastructure (inside and outside of flood hazard areas)	Municipalities, Counties	Baldwin County: Baldwin County, City of Bay Minette, City of Daphne, Town of Elberta, City of Fair- hope, City of Foley, City of Gulf Shores, Town of Loxley, Town of Magnolia Springs, City of Or- ange Beach Escambia County: Escambia County, City of Atmore, City of Brewton, City of Brewton, City of Bayou La Batre, City of Chickasaw, City of Citronelle, City of Creola, Town of Dauphin Island, City of Mobile, Town of Mount Vernon, City of Saraland, City of Saraland, City of Satsuma, City of Semmes		Council or Commission action to enact and enforce regulations
Storm water manage- ment program: Ability to regulate retention, detention, and release of storm water runoff	Municipalities			Council action to enact and enforce regulations

Table 4.2, below, provides a summary of local plans, ordinances, and programs currently in place, or being developed within jurisdictions in Division A. A "Yes" (Y) indicates the item is currently in place and being implemented. A "No" (N) indicates the items is not in place or being implemented. An asterisk (*) indicates the item is currently being developed for future implementation.

Table 4.2 Relevant Plans, Ordinances, and Programs

	Zoning Ordinance	Code Enforcement	Recent Master Plan	Certified Flood Manager	NFIP Participation
Baldwin County					Y
Baldwin County	Y	Y	Y	Y	Y
City of Bay Minette	Y	Y	Y	Y	Y
City of Daphne	Y	Y	N	N	Y
Town of Elberta	Y	Y	N	Y	Y
City of Fairhope	Y	Y	Y	Y	Y
City of Foley	Y	Y	Y	Y	Y
City of Gulf Shores	Y	Y	Y	Y	Y
Town of Loxley	Y	Y	Y	N	Y
Town of Magnolia Springs	Y	Y	Y	N	Y
City of Orange Beach	Y	Y	Y	Y	Y
Town of Perdido Beach	Y	Y	Y	N	Y
City of Rob- ertsdale	Y	Y	N	Y	Y
Town of Silverhill	Y	Y	N	N	Y
City of Spanish Fort	Y	Y	N	Y	Y
Town of Sum- merdale	Y	Y	Y	Y	Y
Escambia County					Y
Escambia County	N	Y	N	N	Y
City of Atmore	Y	Y	N	N	Y
City of Brewton	Y	Y	N	N	Y
City of East Brewton	Y	Y	N	N	Y
Town of Flomaton	N	Y	N	N	Y
Town of Pollard	N	Y	N	N	Y
Town of River- view	N	Y	N	N	Y
Mobile County					Y
Mobile County	N	Y	N	Y	Y
City of Bayou La Batre	Y	Y	Y	N	Y
City of Chickasaw	Y	Y	Y	Y	Y
City of Citronelle	Y	Y	Y	N	Y
City of Creola	Y	Y	Y	N	Y

	Zoning Ordinance	Code Enforcement	Recent Master Plan	Certified Flood Manager	NFIP Participation
Town of Dauphin Island	Y	Y	Y	Y	Y
City of Mobile	Y	Y	Y	Y	Y
Town of Mount Vernon	Y	Y	Y	N	Y
City of Prichard	Y	Y	Y	N	Y
City of Saraland	Y	Y	Y	N	Y
City of Satsuma	Y	Y	Y	N	Y
City of Semmes	*	Y	Y	Y	*

Table 4.3 below summarizes NFIP participation and policy statistics for each jurisdiction in the planning area as of March 12, 2021. More site-specific information on at-risk structures and repetitive loss properties is provided in Section 3.6 in the Risk Assessment. The only jurisdiction that is not currently participating, is Semmes, but they did participate in the hazard mitigation planning process.

Table 4.3 National Flood Insurance (NFIP) Status

Jurisdiction	Participation Status	Initial FHBM Identified	Initial FIRM Identified	Current Effective Map Date
Baldwin County				
Baldwin County	Participating	NA	1/12/73	4/19/19
City of Bay Minette	Participating	10/24/75	12/01/81	4/19/19
City of Daphne	Participating	6/7/74	3/2/81	4/19/19
Town of Elberta	Participating	11/15/74	6/17/02	4/19/19
City of Fairhope	Participating	5/24/74	1/5/78	4/19/19
City of Foley	Participating	11/26/76	7/3/86	4/19/19
City of Gulf Shores	Participating	7/10/71	7/10/71	4/19/19
Town of Loxley	Participating	6/28/74	12/1/81	4/19/19
Town of Magnolia Springs	Participating	N/A	6/17/02	4/19/19
City of Orange Beach	Participating	N/A	1/12/73	4/19/19
Town of Perdido Beach	Participating	N/A	6/17/02	4/19/19
City of Robertsdale	Participating	1/28/77	12/1/81	4/19/19
Town of Silverhill	Participating	6/28/74	12/14/79	4/19/19
City of Spanish Fort	Participating	N/A	6/17/02	4/19/19
Town of Summerdale	Participating	1/13/78	6/17/02	4/19/19
Escambia County				
Escambia County	Participating	10/27/78	9/28/07	3/6/20
City of Atmore	Participating	4/5/74	6/24/77	3/6/20

Jurisdiction	Participation Status	Initial FHBM Identified	Initial FIRM Identified	Current Effective Map Date
City of Brewton	Participating	12/7/73	12/18/79	6/5/12
City of East Brewton	Participating	11/28/73	12/4/79	6/5/12
Town of Flomaton	Participating	11/23/73	12/17/87	6/5/12
Town of Pollard	Participating	1/31/75	9/28/07	6/5/12
Town of Riverview	Participating	8/30/74	9/4/86	6/5/12
Mobile County				
Mobile County	Participating	N/A	12/11/70	6/5/20
City of Bayou La Ba- tre	Participating	N/A	3/17/72	6/5/20
City of Chickasaw	Participating	N/A	2/19/71	6/5/20
City of Citronelle	Participating	1/31/75	6/17/77	6/5/20
City of Creola	Participating	N/A	1/8/72	6/5/20
Town of Dauphin Island	Participating	N/A	6/5/20	6/5/20
City of Mobile	Participating	N/A	9/15/72	6/5/20
Town of Mount Vernon	Participating	12/17/73	12/16/77	6/5/20
City of Prichard	Participating	6/28/74	2/4/81	6/5/20
City of Saraland	Participating	5/24/74	12/18/79	6/5/20
City of Satsuma	Participating	5/3/74	9/29/78	6/5/20
City of Semmes	Applying	N/A	N/A	6/5/20

Source: NFIP Community Status Book (3/12/21)

4.5 Jurisdictional Mitigation Action Plans

This section identifies and analyzes a range of mitigation actions under consideration to help achieve the regional mitigation goals identified in this plan. Local planning stakeholders thoroughly reviewed and considered the Risk Assessment and their local capabilities to determine the most appropriate plan of action for their jurisdictions. Each action or project listed has accessory information, such as designation of a lead agency, hazard(s) addressed, and potential funding source(s). The following table describes the key elements of the Mitigation Action Plans.

It is important to note that this is a completely new first-time plan developed for a newly established multi-county planning area. As this table format, as well as the order and definition of the goals, are new and differ from the previous county plans, it was necessary for jurisdictions to develop new action plans to provide current information and complete Priority/Status and Benefit/Cost Score assignments. As a baseline reference, actions from prior county-level plans were reviewed to develop the new actions; note completed actions in order to illustrate prior progress; or, remove actions that, due to a change in capacity or priority, were no longer relevant to the jurisdiction.

	Jurisdiction Name
	Category of goal that is met:
Goal	#1: Manage the development of land and buildings to minimize risk of life and prop-
	erty loss due to hazard events (PREVENTION)
	#2: Protect structures and their occupants and contents from the damaging effects of
	hazard events (PROPERTY PROTECTION)
	#3: Preserve, rehabilitate, and enhance the beneficial functions of the natural environ-
	ment to promote a balance between natural systems and social and economic demands
	(NATURAL RESOURCE PROTECTION) #4: Apply engineered structural modifi-
	cations to natural systems and public infrastructure to reduce the potentially damaging impacts of hazards, where those modifications are feasible and environmentally suit-
	able (STRUCTURAL MITIGATION)
	#5: Improve the efficiency, timing, and effectiveness of response and recovery
	efforts for hazard events (EMERGENCY SERVICES)
	#6: Educate and foster public awareness of hazards and techniques available for
	mitigation (PUBLIC EDUCATION AND AWARENESS)
Action	Title and description of action to be undertaken
Description	
Hazards	Hazard which the action addresses
Addressed	
Lead Agency	Entity responsible for undertaking the action
Funding Source	Level of funding required for action, where applicable

Priority/Status	Participants prioritized the available mitigation measures and projects considering the following criteria:
	 Economic considerations including but not limited to the availability of funds, benefits to be derived from the proposed measure, costs, economic feasibility, impact on the local economy, and economic development goals. Social considerations including but not limited to environmental justice, neighborhood impact, community support, and impact on social and cultural resources. Environmental considerations including but not limited to compliance with the National Environmental Policy Act (NEPA), state and local environmental regulations, and environmental conservation goals. Administrative, legal, and political considerations including but not limited to staffing, maintenance, timing, legal authority, and political support. Technical considerations including but not limited to technical feasibility.
	Each action was classified using the following designations: Completed: Notable mitigation projects implemented in the past five years Ongoing: Action in progress / perennial occurrence High: Projected implementation within five years Medium: Projected implementation between five and ten years Low: Projected implementation beyond ten years
	Overall, the participating jurisdictions priorities have not changed much since the previous planning cycle.
Cost	Estimated cost (if known) of action to be taken

4.5.1 SARPC Mitigation Action Plan

Goal	Action	Hazards	Lead	Funding	Priority/	Cost
	Description	Addressed	Agency	Source	Status	
1	SARPC will maintain the	All	SARPC	HMGP/	High	TBD
	mitigation plan by seeking			Local Funds		
	additional grant funding, as					
	needed					
1	SARPC will coordinate	All	SARPC	Local Funds	High	TBD
	multi-jurisdiction collabora-					
	tion by attending AEMA Di-					
	vision A meetings on at least					
	an annual basis					
1	SARPC will incorporate	Flooding/	SARPC	HMGP/	High	TBD
	HAZUS-MH and Risk MAP	High		Local Funds		
	information in Risk Assess-	Winds				
	ment for future plan updates					

4.5.2 SARPC Region Jurisdiction Action Plans

All SARPC Region Jurisdictional Community Action Plans are found in Appendices A-C.

Section 5- Plan Maintenance Process

This section of the plan addressed requirements of Interim Final Rule (IFR) Section 201. (c)(4).

Section Contents

- 5.1 Hazard Mitigation Plan Monitoring, Evaluation, and Update Process
- 5.2 Hazard Mitigation Plan Incorporation
- 5.3 Public Awareness/Participation

5.1 Hazard Mitigation Plan Monitoring, Evaluation, and Update Process

The South Alabama Regional Planning Commission (SARPC) will facilitate plan maintenance activities with assistance from local EMA directors throughout the five-year framework of the Hazard Mitigation Plan. Local EMA directors will serve as a liaison to participating jurisdictions within their respective counties through their local processes, such as Local Emergency Planning Committee (LEPC) or similar stakeholder groups. The public, neighboring communities, and other stakeholders will be encouraged to participate throughout this process. SARPC will facilitate the annual update process at the regional level. During the fourth quarter of each calendar year, SARPC will coordinate a meeting(s) of all EMA directors/committee members in SARPC's planning area to discuss the results of their county-level review.

Periodic review and revision of the Hazard Mitigation Plan is important to ensure the plan's appropriateness and compliance with applicable regulations and to assess the progress of local mitigation actions. County-level reviews will include:

- Evaluation of the effectiveness of previously implemented mitigation actions;
- Review of the status of high priority or ongoing mitigation actions;
- Addressing changing land use patterns and new developments; and
- Identification of any changes in the risk assessment and/or risk vulnerability.

Prior to the regional meeting, local EMA directors shall collect pertinent information from local jurisdictions and stakeholders, including the general public, in their counties. This information will be used for plan review and evaluation purposes. The general public will be invited to attend the review meeting and encouraged to provide input. The public will be invited through public notices and public outreach. In addition, the plan review process will include the provision of a post-disaster review that merits a reevaluation of hazard priorities and mitigation actions in order to reflect fluctuating conditions within the region.

At any time during the planning cycle, a jurisdiction may revise its mitigation action plan. For jurisdiction specific revisions, only the jurisdiction making the revision will have to approve the change. The jurisdiction will work with its EMA director to submit these changes to SARPC for incorporation into the plan.

A thorough review of the Hazard Mitigation Plan will begin 18 months prior to the five-year expiration date of the plan. This review shall be held to identify any significant changes in the AEMA Division A planning area that may affect the region's vulnerability to hazard impacts. An evaluation of the mitigation strategy and jurisdictional action plans developed as part of this process will be evaluated. This plan update shall incorporate any changes to federal or state regulations that may affect the Hazard Mitigation Plan contents. Upon completion of this review and update, the updated Hazard Mitigation Plan will be submitted to the AEMA and FEMA for review and approval. Public participation will be solicited and encouraged throughout this process.

5.2 Hazard Mitigation Plan Incorporation

The <u>AEMA Division A Regional Hazard Mitigation Plan</u> will be incorporated into existing planning mechanisms in all participating jurisdictions. Once the Regional Hazard Mitigation Plan is "approvable upon adoption" by FEMA, each jurisdiction shall proceed with adoption procedures. Each proposed action listed in the jurisdictional mitigation action plans is assigned to one or multiple lead agencies or departments. Designation of a lead agency or department assigns responsibility and accountability to each action. In addition to the assigned local agency or department, each mitigation action plan has a priority or status assigned that roughly coincides with an implementation timeline. Local jurisdictions in AEMA Division A will work to continue providing operational funding for actions that are ongoing and will seek outside funding for capital projects that are outside the realm of normal funding during both pre-disaster and post-disaster periods.

Participating jurisdictions will integrate this Hazard Mitigation Plan into appropriate and relevant municipal and county government decision-making processes, when feasible. It is important to note that a few of the jurisdictions in Division A do not have formal planning processes in place. For those who do not, local EMA officials or planning staffs of the appropriate regional planning council will provide technical assistance for incorporation, upon request. The process for all jurisdictions in the division will include integrating the findings of the Hazard Mitigation Plan into planning documents, such as comprehensive or master plans, future land use plans, subdivision regulations, building regulations, capital improvement plans, or similar mechanisms. mitigation plan will be incorporated by ensuring the goals and actions of local planning documents are consistent with the goals and mitigation actions of the Hazard Mitigation Plan. Jurisdictions will not introduce additional hazard vulnerabilities to local areas and the region at-large. Mitigation projects will be incorporated into project lists and priorities, as appropriate. This integration process will involve reviewing the jurisdiction's mitigation goals and action plans and comparing that to the proposed planning document. Local EMA directors will continue to incorporate applicable information from this Hazard Mitigation Plan into other required emergency management plans, including each county's Emergency Operations Plan and Threat and Hazard Identification and Risk Assessment. During county-level plan reviews, participating communities will be asked to record the planning documents in which elements of the Hazard Mitigation Plan were incorporated. Since the last plans were adopted, the county-level plans have not been incorporated into any planning mechanisms outside of those performed by the county EMAs.

The Hazard Mitigation Plan will be provided to the Alabama Tombigbee Regional Commission (ATRC) and the South Alabama Regional Planning and Development Commission (SARPDC), as well as local economic development councils, for consistency with other regional planning and economic development activities.

5.3 Public Awareness/Participation

Public participation is a key component in the hazard mitigation planning process. Outreach activities give jurisdictions the ability to garner the public's opinions and ideas regarding hazard mitigation. In addition, outreach gives jurisdictions an opportunity to educate the public about hazards and mitigation strategies being undertaken. Participation throughout the planning process

is important. Division A planning efforts will continue to encourage all local and state government agencies, businesses, academia, and the general public to participate in the ongoing mitigation planning process to the maximum extent possible.

Any significant changes or amendments to the Hazard Mitigation Plan shall require a public hearing prior to adoption. Significant amendments would be those changes that affect the entire Division. The public will be informed of public hearings and other Hazard Mitigation related meetings through a variety of media sources, including but not limited to the following: local newspaper advertisements and notices, radio advertisements, postings at high traffic community areas, social media posts, telephone messages, and announcements on various websites (such as local EMA offices, ATRC, and SARPC). ATRC, SARPC, and local EMA offices will keep public copies of the plan on hand. Copies will be provided to each County Commission office, each municipal seat of government, and other appropriate public locations. ATRC and SARPC will post a copy of the Hazard Mitigation Plan on their websites. Press releases will be published via various media to inform the general public and stakeholders of the availability of the plan for review, locations where the plan can be accessed, and how they can play a role in its creation and future revisions.

No public comments have been received to date.

Appendix A – Mobile County Community Action Plans

A.1 Baldwin County Community Action Program

	Baldwin C	ounty Community Action	Program			
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 Years Long-Range-more than five years	Funding Source	Estimated Cost
1	Goal for Prevention. Manage the development of land and	buildings to minimize ris	ks of loss due to	natural hazards.		
1.1	Comprehensive Plans and Smart Growth. Establish an ac sustainable community development.	tive comprehensive plann	ing program that	is consistent with Sma	art Growth princ	ciples of
1.1.1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.	County EMA/ Planning Department / Building Official-Floodplain Manager /County Engineer-Highway Department	High	Mid-Range/Ongoing	Local Funds	TBD
1.1.2	Integrate the findings and recommendations of this plan into comprehensive plan amendments for jurisdictions (Baldwin County Unincorporated with active comprehensive planning programs.	County EMA/ Planning Department	Medium	Mid-Range	Local Funds	TBD
1.1.3	Prepare a five-year capital improvements plan (CIP) to include capital projects that implements the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	County EMA/ Planning Department / Building Official-Floodplain Manager /County Engineer-Highway Department	Medium	Mid-Range	Local Funds	TBD
1.1.4	Prepare a floodplain management plan.	Building Official- Floodplain Manager	High	Short-Range	HMA/Local	TBD
1.2	Geographic Information Systems (GIS). Maintain a compre facilities inventories.	ehensive database of haza	ards locations, so	cio economic data, inf	rastructure, and	d critical

	Baldwin County Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more	Funding Source	Estimated Cost		
1.2.1	Maintain a centralized, countywide natural hazards and risk assessment database in GIS that is accessible to local planners and emergency management personnel, including such data as, flood zones, geohazards, major drainages structures, dams/levees, hurricane surge areas, tornado tracks, disaster events and their extents, and a comprehensive inventory of critical facilities within all jurisdictions.	County EMA/ GIS Staff in the CIS, Planning, & Highway Departments/ Engineering Department	Medium	Mid-Range/Ongoing	HMA/Local	TBD		
1.2.2	Integrate FEMA HAZUS-MH applications for hazard loss estimates within local GIS program. Maintain up-to-date within GIS to apply the full loss estimation capabilities of HAZUS.	GIS Staff in the CIS, Planning, & Highway Departments (May also include Baldwin County 9-1-1 GIS Manager	Medium	Mid-Range/Ongoing	Local	TBD		
1.2.3	Mark depths of flooding and storm surge immediately after each event. Enter and maintain these historical records in GIS.	Building Official- Floodplain Manager /County Engineer- Highway Department/ County EMA	High	Short-Range	Local	TBD		
1.3	Planning Studies. Conduct special studies, as needed, to	l identify hazard risks and I	l mitigation measur	es.				
1.3.1	Carry out detailed planning and engineering studies for sub- basins in critical flood hazard areas to determine watershed- wide solutions to flooding.	Building Official- Floodplain Manager / County Engineer- Highway Dept/Planning Department/County EMA	Medium	Mid-Range/Ongoing	НМА	TBD		
1.3.2	Identify local culturally or socially significant structures and critical facilities within Baldwin County that have the most potential for losses from natural hazard events and identify needed structural upgrades.	Building Official- Floodplain Manager / County Engineer- Highway Dept/Planning Department/County EMA	Medium	Mid-Range	Local Funds	TBD		

	Baldwin County Community Action Program						
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more	Funding Source	Estimated Cost	
1.3.3	Evaluate elevation and culvert sizing of local roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	County Engineer- Highway Department/Floodplain Manager -Building Official/County EMA	Medium	Mid-Range/Ongoing	Local Funds	TBD	
1.3.4	Inventory and map local fire hydrants throughout the county, and identify areas in need of new fire hydrants.	9-1-1 GIS,/County EMA/Planning Department	Medium	Mid-Range/Ongoing	Local Funds	TBD	
1.3.5	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	Building Official- Floodplain Manager / County Engineer- Highway Dept/Planning Department/County EMA	Medium	Mid-Range/Ongoing	НМА	TBD	
1.4	Zoning. Establish effective zoning controls, where applica development.	ble, to vulnerable land are	eas to discourage	environmentally inco	mpatible land u	se and	
1.4.1	Consider large lot size restriction on flood prone areas designated on Flood Insurance Rate Maps.	Planning Department/ Building Official- Floodplain Manager	Medium	Mid-Range/Ongoing	Local Funds	TBD	
1.4.2	Evaluate additional land use restrictions within designated flood zones, such as prohibition of storage of buoyant materials, storage of hazardous materials, and restrictive development of flood ways, among others.	Planning Department/ Building Official- Floodplain Manager	Medium	Mid-Range/Ongoing	Local Funds	TBD	
1.4.3	Require delineation of flood plain fringe, floodways, and wetlands on all plans submitted with a permit for development within a flood plain.	Planning Department/ Building Official- Floodplain Manager	Medium	Mid-Range	Local Funds	TBD	
1.4.4	Enact local ordinance that requires community storm shelters within sizeable mobile home parks and subdivisions.	Local Government/County EMA/Planning Department/ Building Official-Floodplain Manager	Medium	Mid-Range	HMA/Local Funds	TBD	

	Baldwin C	ounty Community Action	Program			
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline	Funding Source	Estimated Cost
1.5	Open Space Preservation. Minimize disturbances of natur natural features such as open space for parks, conservation			runoff through regula	tions that maint	ain critical
1.5.1	Examine regulatory options and feasibility of requiring open space areas for recreation, landscaping, and drainage control.	Building Official- Floodplain Manager / County Engineer- Highway Dept/Planning Department/County EMA	Medium	Mid-Range	Local Funds	TBD
1.6	Flood Plain Management Regulations. Effectively adminis	ter and enforce local floor	dplain manageme	nt regulations.		
1.6.1	Train local flood plain managers through programs offered by the State Flood Plain Coordinator or FEMA's training center in Emmitsburg, Maryland.	Local Government	Medium	Mid-Range	Local Funds	TBD
1.6.2	Maintain a library of technical assistance and guidance materials to support the Building Official-Floodplain Manager.	Building Department- Floodplain Manager/County EMA/Planning Department	Medium	Mid-Range	Local Funds	TBD
1.6.3	Promote the adoption of uniform flood hazard prevention ordinance among all NFIP communities. The ordinance standards should encourage flood plain management that maintains the natural and beneficial functions of flood plains by maximizing the credits that could be obtained for "Higher Regulatory Standards" under the Community Rating System (CRS) Program.	Building Department- Floodplain Manager/County EMA/Planning Department	Medium	Mid-Range	Local Funds	TBD
1.6.4	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association Flood Plain Managers and encourage active participation.	Building Department- Floodplain Manager/County EMA/Planning Department	Medium	Mid-Range/Ongoing	Local Funds	TBD
1.6.5	Participate in the "Turn Around, Don't Drown" program by purchasing and installing signs in known flash flood overpass locations.	County EMA/County Engineer-Highway Department	Medium	Mid-Range	Local Funds	TBD

	Baldwin C	ounty Community Action	Program			
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost
1.6.6	Improve flood risk assessment by documenting high water marks post event, verification of FEMA's repetitive loss inventory and revising and updating regulatory floodplain maps.	Floodplain Manager/County EMA	Medium	Short-Range	Local Funds	TBD
1.7	Building and Technical Codes. Review local codes for effection damages.	ectiveness of standards to	protect buildings	and infrastructure fro	om natural haza	rd
1.7.1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	Building Official	Medium	Mid-Range	Local Funds	TBD
1.7.2	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of "hurricane clips."	Building Official	Medium	Mid-Range	Local Funds	TBD
1.7.4	Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters	Building Official	Medium	Mid-Range	Local Funds	TBD
1.7.5	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	Building Official	Medium	Mid-Range	Local Funds	TBD
1.7.6	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	Building Official- Floodplain Manager/ Planning Department/County EMA	Medium	Mid-Range	НМА	TBD
1.8	Landscape Ordinances. Establish minimum standards for aesthetics.	planting areas for trees a	nd vegetation to r	educe storm water ru	noff and improv	e urban
1.8.1	Review and revise as necessary, landscaping standards for parking lots that reduce the size of impervious surfaces and encourage natural infiltration of rainwater.	Planning Department	Medium	Mid-Range	Local Funds	TBD
1.9	Storm Water Management. Manage the impacts of land de	velopment on storm wate	r runoff rates and	to natural drainage sy	/stems.	

	Baldwin C	ounty Community Action	Program				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost	
1.9.1	Promote the adoption/enforcement of storm water management regulations that maintain pre-development runoff rates.	Building Official- Floodplain Manager/ County Engineer- Highway Dept/Planning Department/Baldwin County EMA	Medium	Ongoing	Local Funds	TBD	
1.9.2	Develop, adopt, and implement subdivision regulations that require proper storm water infrastructure design and construction.	Planning Department	Medium	Ongoing	Local Funds	TBD	
1.9.3	Establish urban forestry program to help mitigate storm water runoff common in areas with large impervious surfaces.	Planning Department	Medium	Ongoing	Local Funds	TBD	
1.11	Community Rating System Program (CRS). Increase participation of NFIP member communities in the CRS Program.						
1.11.1	Apply for/maintain membership in the CRS Program; continue to upgrade rating.	Floodplain Manager/Planning Department	High	Short-Range	Local Funds	TBD	
1.12	<u>Critical Facilities Assessments.</u> Perform assessments of of special needs housing, and others) to address building an vulnerability to damage and disruption of operations during	d site vulnerabilities to ha	zards, identify da				
1.12.1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	County EMA/Building Official-Floodplain Manager/Planning Department	Medium	Long-Range	НМА	TBD	
1.12.2	Conduct wildfire vulnerability assessments, including the vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive inventory to identify high and moderate wildfire risk areas.	Fire Department(s)/County EMA	Medium	Mid-Range	Local Funds	TBD	
2	Goal for Property Protection. Protect structures and their of	occupants and contents fr	om the damaging	effects of natural haz	ards.		
2.1	Building Relocation. Relocate buildings out of hazardous	flood areas to safeguard	against damages a	and establish permane	ent open space.		

	Baldwin C	ounty Community Action	Program			
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost
2.1.1	Pursue FEMA grant funds to relocate buildings and infrastructure out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	Building Official- Floodplain Manager/Hazard Mitigation Coordinator/County EMA	Medium	Ongoing	НМА	TBD
2.2	Acquisition. Acquire flood prone buildings and properties	and establish permanent	open space.			
2.2.1	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Building Official- Floodplain Manager/Hazard Mitigation Coordinator/County EMA	High	Ongoing	НМА	TBD
2.2.2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Building Official- Floodplain Administrator	High	Ongoing	TBD	TBD
2.3	Building Elevation. Elevate buildings in hazardous flood a	reas to safeguard against	damage.			
2.3.1	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Building Official- Floodplain Manager/Hazard Mitigation Coordinator/County EMA	Medium	Ongoing	НМА	TBD
2.3.2	Pursue grant funds to repair, elevate and weatherize Local Funds homes for low- to moderate-income families.	Building Official- Floodplain Manager/Hazard Mitigation Coordinator/County EMA	Medium	Ongoing	НМА	TBD
2.4	Flood Proofing. Encourage flood proofing of building in ha	zardous flood areas to sa	feguard against o	lamages.		

Baldwin County Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more	Funding Source	Estimated Cost	
2.4.1	Pursue FEMA grant funds for flood proofing pre-FIRM non-residential buildings, where feasible.	Building Official- Floodplain Manager/Hazard Mitigation Coordinator/County EMA	High	Ongoing	НМА	TBD	
2.5	Flood Control Measures. Construct small flood control measures to reduce/prevent flood damage.						
2.5.1	Examine use of minor structural projects (small berm or floodwalls) in areas that cannot be mitigated through non-structural mitigation techniques.	Building Official	Low	Long-Range	HMA/Local Funds	TBD	
2.6	Building Retrofits. Retrofit vulnerable buildings to protect severe storms, and earthquakes.	against natural hazards d	amages, including	flooding, high winds	, tornadoes, hu	rricanes,	
2.6.1	Pursue FEMA grant funds to retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	Building Official- Floodplain Manager/Hazard Mitigation Coordinator/County EMA	Medium	Ongoing	НМА	TBD	
2.6.2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	Building Official- Floodplain Manager	Medium	Ongoing	Local Funds	TBD	
2.7	Hazard Insurance Awareness. Increase public awareness of flood insurance and special riders that may be required for earthquake, landslide, sinkhole, and other damages typically not covered by standard property protection policies.						
2.7.1	Promote the purchase of insurance coverage by property owners and renters for flood damages in high-risk areas.	Building Official- Floodplain Manager/Hazard Mitigation Coordinator/County EMA	Medium	Ongoing	Local Funds	TBD	
2.7.2	Conduct ongoing tree trimming programs along power lines.	Power-Utility Companies	Medium	Ongoing	Local	TBD	

Baldwin County Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
2.8	<u>Critical Facilities Protection</u> . Protect critical facilities from potential damages and occupants from harm in the event of hazards through retrofits or relocations of existing facilities located in high-risk zones or construction of new facilities for maximum protection from all hazards.							
2.8.1	Install lightning and/or surge protection on existing critical facilities.	Building Official/Building Maintenance	Medium	Mid-Range	Local Funds	TBD		
2.8.2	Conduct ongoing tree trimming programs along power lines							
2.9	Back Up Power. Ensure uninterrupted power supply to critical facilities during emergency events.							
2.9.1	Pursue grant funding for the installation of back-up power generators for critical facilities.	County EMA	Medium	Mid-Range	НМА	TBD		
3	Goal for Public Education and Outreach. Educate and inform the public about the risks of hazards and the techniques available to reduce threats to life and property.							
3.1	Map Information. Increase public access to Flood Insurance Rate Map (FIRM) information.							
3.1.1	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	Planning Department/Building Official-Floodplain Manager/Hazard Mitigation Coordinator/County EMA	Low	Mid-Range	Local Funds	TBD		
3.2	Outreach Projects. Conduct regular public events to inform the public of hazards and mitigation measures.							
3.2.1	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Planning Department/Building Official-Floodplain Manager/Hazard Mitigation Coordinator/County EMA	High	Short-Range	Local Funds	TBD		

Baldwin County Community Action Program							
Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more	Funding Source	Estimated Cost		
Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	Planning Department/Building Official-Floodplain Manager/Hazard Mitigation Coordinator/County EMA	High	Short-Range	Local Funds	TBD		
Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	County EMA	High	Short-Range	Local Funds	TBD		
Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Building Official- Floodplain Manager/Hazard Mitigation Coordinator/County EMA	High	Ongoing	Local Funds	TBD		
Real Estate Disclosure. Encourage real estate agents to disclose flood plain location for property listings.							
Consider the enactment of a local ordinance or state law to require floodplain disclosure when a property is for sale.	Floodplain Manager	Medium	Complete/Ongoing	Local Funds	TBD		
Library. Use local library resources to educate the public on hazard risks and mitigation alternatives.							
Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.	Floodplain Manager/County EMA	Medium	Long-Range	Local Funds	TBD		
Education Programs. Use schools and other community education resources to conduct programs related to hazard risks and mitigation measures.							
Distribute hazard mitigation brochures to students through area schools.	County EMA	High	Short-Range	Local Funds	TBD		
	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes. Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner. Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions. Real Estate Disclosure. Encourage real estate agents to discoure the enactment of a local ordinance or state law to require floodplain disclosure when a property is for sale. Library. Use local library resources to educate the public on hazard mitigation from FEMA, NWS, USGS, and other federal and state agencies. Education Programs. Use schools and other community educate the publications from FEMA, NWS, USGS, and other federal and state agencies.	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes. Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner. Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions. Building Official-Floodplain Manager/Hazard Mitigation Coordinator/County EMA Real Estate Disclosure. Encourage real estate agents to disclose flood plain location for consider the enactment of a local ordinance or state law to require floodplain disclosure when a property is for sale. Library. Use local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies. Education Programs. Use schools and other community education resources to conduct Distribute hazard mitigation brochures to students through	Goal, Objectives and Mitigation Measures Page Flanning Department/Building Official-Floodplain Manager/Hazard Mitigation measures in their homes. Planning Department/Building Official-Floodplain Manager/Hazard Mitigation Coordinator/County EMA High	Goal, Objectives and Mitigation Measures Part Part	Goal, Objectives and Mitigation Measures Page 1		

	Baldwin C	ounty Community Action	Program						
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
3.5.2	Educate homeowners about structural and non-structural retrofitting of vulnerable homes.	Building Official- Floodplain Manager/ County EMA	Low	Long-Range	Local Funds	TBD			
3.6	3.6 Community Hazard Mitigation Plan Distribution. Distribute the hazard mitigation plan to elected officials, interested agencies and organizations, businesses, and residents, using all available means of publication and distribution.								
3.6.1	Distribute the 2020-2021 plan to local officials, stakeholders, and interested individuals through internet download.	County EMA	High	Short-Range	Local Funds	TBD			
3.7	Technical Assistance. Make qualified local government staff available to advise property owners on various hazard risks and mitigation alternatives.								
3.7.1	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Local Floodplain Manger	Medium	Short-Range	Local Funds	TBD			
3.8	Mass Media Relations. Utilize all available mass media, su on-line social networking to increase public awareness and				asts, video shar	ing, and			
3.8.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Local Government/County EMA	Medium	Ongoing	Local Funds	TBD			
3.9	Weather Radios. Improve public access to weather alerts.								
3.9.1	Promote the use of weather radios in households and businesses.	Local Government/County EMA	High	Short-Range	Local Funds	TBD			
3.9.2	Require the installation of weather radios in all public buildings and places of public assembly.	Local Government	High	Short-Range	Local Funds	TBD			
3.9.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	Local Government/May be assisted by County EMA (Guidance & Info.)	High	Short-Range	Local Funds	TBD			
3.10	<u>Disaster Warning</u> . Improve public warning systems.								

	Baldwin County Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more	Funding Source	Estimated Cost			
3.10.1	Establish an ALERT flood warning system at strategic locations in the county, including at a minimum, sensors that provide real-time access to stream flow, stream stage, and precipitation data. Establish a Mass Notification System with IPAWS capability, and a public outreach program to keep the public information of hazards and notified of emergency situations using real-time data from flood gauges and the National Weather Service.	Local Government/County EMA_t	High	Ongoing	НМА	∓BÐ			
3.10.2	Ensure that the ALERT warning system links data into GIS with the ability to use measured and forecasted rainfall to predict potential flood levels and create real-time maps of flooded areas.	Local Government	High	Mid-Range	НМА	TBD			
3.10.3	Evaluate the feasibility of a shared tri-county ALERT system covering Baldwin, Escambia, and Mobile counties.	Local Government	High	Mid-Range	HMA	TBD			
3.10.5	Upgrade critical communications infrastructure.	Local Government	High	Long-Range	TBD	TBD			
4	Goal for Natural Resources Protection. Preserve and restordevelopment that balances the constraints of nature with t				e sustainable co	ommunity			
4.1	Open Space Easements and Acquisitions. Acquire easement and wetlands to assure permanent protection of these natural results.		ip of environmental	ly beneficial lands, such	as hillsides, floo	od plains,			
4.1.1	Increase open space acquisitions through the FEMA HMA Grant Programs and other floodplain acquisition efforts.	Local Government	Medium	Mid-Range	НМА	TBD			
4.2	River/Stream Corridor Restoration and Protection. Restore	e and protect river and str	eam corridors wit	hin areas.					
4.2.1	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Planning Department/Building Official-Floodplain Manager	Medium	Mid-Range	Local Funds	TBD			
4.2.2	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	Planning Department/Local Government	Medium	Long-Range	Local Funds	TBD			

	Baldwin County Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
4.3	<u>Urban Forestry Programs.</u> Maintain a healthy forest that car	help mitigate damaging im	pacts of flooding, e	erosion, landslides and	wildfires within ur	ban areas.		
4.3.1	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).	Local Government	Medium	Mid-Range	Local Funds	TBD		
4.3.2	Increase overall green spaces in cities by planting hurricane resistant trees with site and location taken into consideration.	Local Government	Medium	Mid-Range	Local Funds	TBD		
4.4	Beach and Dune Protection/Renourishment. Protect beaches and dunes from coastal and man-made erosion and implement renourishment programs.							
4.4.1	Restore and protect wetlands to enhance storm water drainage.	Local Government	Medium	Mid-Range	Local Funds	TBD		
4.4.2	Develop a coastal renourishment program	Local Government	Medium	Mid-Range	Local Funds	TBD		
4.5	Water Resources Conservation Programs. Protect water quininterrupted potable water supplies.	uality through water cons	l servation program	s to mitigate the effec	ts of droughts a	and assure		
4.5.1	Prepare and implement standard operating procedures and guidelines for drainage system maintenance. Develop a coastal renourishment program	Local Government	Medium	Mid-Range	Local Funds	TBD		
5	Goal for Structural Projects. Apply engineered structural r damaging impacts of hazards, where feasible, cost effective			infrastructure to redu	uce the potentia	lly		
5.1	<u>Drainage System Maintenance.</u> Improve maintenance prog	grams for streams and dra	ainage ways.					
5.1.1	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Planning Department/Building Official-Floodplain Manager/County Engineer-Highway Department	Medium	Long-Range	Local Funds	TBD		
5.2	Reservoirs and Drainage System Improvements. Control flor feasible, such as levees/floodwalls, diversions, channel modific	•		•	eemed cost effec	ctive and		

	Baldwin County Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
5.2.1	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Planning Department/Building Official-Floodplain Manager/County Engineer-Highway Department t	Medium	Ongoing	НМА	TBD		
5.2.2	Improve and retrofit water supply systems to save water during drought events and to eliminate breaks and leaks.	Local Government	Medium	Long-Range	НМА	TBD		
5.3	Community Shelters and Safe Rooms. Provide shelters fro	m natural hazards for the	safety of commun	nity residents.				
5.3.1	Ensure the inclusion of storm shelters and/or safe rooms in public buildings such as schools and multi-purpose community centers.	Planning Department/Building Official-Floodplain Manager/Hazard Mitigation Coordinator/County EMA	Medium	Mid-Range	НМА	TBD		
5.3.2	Pursue grand funds to establish a program for subsidizing safe room and storm shelter construction in appropriate locations and facilities.	Local Government/County EMA	Medium	Mid-Range	НМА	TBD		
5.3.3	Encourage the construction of safe rooms in new and Local Funds homes and buildings.	Planning Department/Building Official-Floodplain Manager/Hazard Mitigation Coordinator/County EMA	Medium	Mid-Range	НМА	TBD		
5.4	Miscellaneous Mitigation Actions. Actions needed to p category.	protect lives and preser	ve property tha	t are specialized and	d do not fit in	another		

# Goal, Objectives and Mitigation Measures Fiver Rd Re-Alignment (and similar projects) that identify roadway providing access to residents and public safety which can be improved to mitigate loss Fiver Rd Re-Alignment (and similar projects) that identify roadway providing access to residents and public safety which can be improved to mitigate loss Fiver Rd Re-Alignment (and similar projects) that identify roadway providing access to residents and public safety which can be improved to mitigate loss Fiver Rd Re-Alignment (and similar projects) that identify roadway providing access to residents and public safety which can be improved to mitigate loss Fiver Rd Re-Alignment (and similar projects) that identify roadway providing access to residents and public safety which can be improved to mitigate loss	Source	Cost
identify roadway providing access to residents and Department and Medium Mid-Pange	Funding	Estimated Cost
of access due to flooding.	НМА	TBD
5.4.2 Coroner's Office – Capacity Building Improvement for handling multiple decedents in emergencies/disasters Coroner, EMA Medium Mid-Range	НМА	TBD

A.2 Bay Minette Community Action Program

	City of Bay Minette Community Action Program						
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost	
1	Goal for Prevention. Manage the development of land and buil	dings to minimize risks o	f loss due to natural	hazards.			
1.1	Comprehensive Plans and Smart Growth. Establish an active of sustainable community development.	comprehensive planning	program that is con	sistent with Smart	Growth prir	nciples of	
1.1.1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.	Planning Department	High	Short- Range	Local Funds	TBD	
1.1.2	Integrate the findings and recommendations of this plan into comprehensive plan amendments for jurisdictions with active comprehensive planning programs.	Planning Department	High	Short- Range	Local Funds	TBD	
1.1.3	Prepare a five-year capital improvements plan (CIP) to include capital projects that implements the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	Planning Department	High	Short- Range	Local Funds	TBD	
1.2	Geographic Information Systems (GIS). Maintain a comprehen facilities inventories.	sive database of hazards	locations, socio eco	onomic data, infra	structure, ar	nd critical	

	City of Bay Minette Community Action Program						
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost	
1.2.2	Integrate FEMA HAZUS-MH applications for hazard loss estimations within local GIS programs. Maintain up-to-date data within GIS to apply the full loss estimation capabilities of HAZUS.	GIS Department/ Engineering Department/ Baldwin County EMA	Low	Mid-Range	НМА	TBD	
1.2.3	Mark depths of flooding and storm surge immediately after each event. Enter and maintain these historical records in GIS.	GIS Department/ Engineering Department/ Baldwin County EMA	Low	Mid-Range	НМА	TBD	
1.3	Planning Studies. Conduct special studies, as needed, to iden	tify hazard risks and mitig	gation measures.				
1.3.1	Carry out detailed planning and engineering studies for sub- basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Planning Department	Medium	Mid-Range	Local Funds	TBD	
1.3.2	Identify existing culturally or socially significant structures and critical facilities within Baldwin County that have the most potential for losses from natural hazard events and identify needed structural upgrades.	Planning Department	Medium	Mid-Range	Local Funds	TBD	
1.3.3	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	Planning Department	Medium	Mid-Range	Local Funds	TBD	
1.3.4	Inventory and map existing fire hydrants throughout the community, and identify areas in need of new fire hydrants.	Planning Department, GIS, and Fire Department	Medium	Mid-Range	Local Funds	TBD	

	City of Bay Mine	tte Community Action Pro	ogram					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
1.3.5	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	Planning Department	Medium	Mid- Range/Ongoing	FEMA HMA Grant	TBD		
1.4	Zoning. Establish effective zoning controls, where applicable, to vulnerable land areas to discourage environmentally incompatible land use and development.							
1.4.1	Consider lot size requirements on flood prone areas designated on Flood Insurance Rate Maps.	Planning Department	Medium	Mid-Range	Local Funds	TBD		
1.4.2	Evaluate additional land use restrictions within designated flood zones, such as prohibition of storage of buoyant materials, storage of hazardous materials, and restrictive development of flood ways, among others.	Planning Department	Medium	Mid-Range	Local Funds	TBD		
1.4.3	Require delineation of flood plain fringe, floodways, and wetlands on all plans submitted with a permit for development within a flood plain.	Planning Department	Medium	Mid-Range	Local Funds	TBD		
1.4.4	Enact local ordinance that requires community storm shelters within sizeable mobile home parks and subdivisions.	Planning Department	Medium	Mid-Range	Local Funds	TBD		
1.5	Open Space Preservation. Minimize disturbances of natural la critical natural features such as open space for parks, conserv			through regulation	ns that mair	ntain		
1.5.1	Examine regulatory options and feasibility of requiring open space areas for recreation, landscaping, and drainage control.	Planning Department	Medium	Mid-Range	Local Funds	TBD		
1.6	Flood Plain Management Regulations. Effectively administer a	ind enforce local floodpla	in management regu	ulations.				
1.6.1	Train local flood plain managers through programs offered by the State Flood Plain Coordinator or FEMA's training center in Emmitsburg, Maryland.	Mayor and Council	High	Short-Range	Local Funds	TBD		

	City of Bay Minette Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
1.6.2	Maintain a library of technical assistance and guidance materials to support the local floodplain manager.	Floodplain Manager	High	Short-Range	Local Funds	TBD		
1.6.4	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association Flood Plain Managers and encourage active participation.	Floodplain Manager	High	Short-Range	Local Funds	TBD		
1.6.5	Participate in the "Turn Around Don't Drown" program by purchasing and installing signs in known flash flood bridge overpass locations.	Floodplain Manager	Medium	Mid-Range	Local Funds	TBD		
1.6.6	Improve flood risk assessment by documenting high water marks post event, verification of FEMA's repetitive loss inventory and revising and updating regulatory floodplain maps.	Floodplain Manager	Medium	Mid-Range	Local Funds	TBD		
1.7	Building and Technical Codes. Review local codes for effectiv damages.	eness of standards to pro	otect buildings and i	nfrastructure from	natural haz	ard		
1.7.1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	City Building Official	High	Ongoing	Local Funds	TBD		
1.7.2	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of "hurricane clips."	City Building Official	High	Ongoing	Local Funds	TBD		

	City of Bay Mine	tte Community Action Pro	ogram			
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost
1.7.3	Relocate existing utility lines underground, where feasible and cost effective, and require, through local subdivision and land development regulations, the placement of all new utility lines underground for large residential subdivisions and commercial developments.	City Building Official	High	Ongoing	Local Funds	TBD
1.7.4	Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters.	City Fire Department	High	Ongoing	Local Funds	TBD
1.7.5	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	City Building Official	High	Ongoing	Local Funds	TBD
1.7.6	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	City Building Official	High	Ongoing	FEMA HMA Grant	TBD
1.8	<u>Landscape Ordinances.</u> Establish minimum standards for planaesthetics.	nting areas for trees and v	regetation to reduce	storm water runo	ff and impro	ve urban
1.8.1	Review and revise as necessary, landscaping standards for parking lots that reduce the size of impervious surfaces and encourage natural infiltration of rainwater.	Planning Department	Medium	Mid-Range	Local Funds	TBD
1.8.2	Establish ordinances to help mitigate fire hazards related to fuel buildup due to recent hurricanes, by raising tree canopies close to homes, thinning forests near urban areas, and removing trees that are too close to homes.	City Building Official	Medium	Long-Range	Local Funds	TBD
1.8.3	Establish ordinance for the planting of new urban forests or replacement of the hurricane damaged urban forests using hurricane resistant tree species to mitigate wind and erosion problems, help beautify and promote healthy urban environments and reduce heating, cooling and storm runoff costs.	City Building Official	Medium	Long-Range	Local Funds	TBD

	City of Bay Mine	tte Community Action Pro	ogram			
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost
1.9	Storm Water Management. Manage the impacts of land develo	pment on storm water rur	noff rates and to nat	ural drainage syst	ems.	
1.9.1	Promote the adoption/enforcement of storm water management regulations that maintain pre-development runoff rates.	City Building Official/Planning Department	Medium	Ongoing	Existing	TBD
1.9.2	Develop, adopt and implement subdivision regulations that require proper storm water infrastructure design and construction.	City Building Official	Medium	Ongoing	Existing	TBD
1.9.3	Establish urban forestry program to help mitigate storm water runoff common in areas with large impervious surfaces.	City Building Official	Medium	Ongoing	Existing	TBD
1.11	Community Rating System Program (CRS). Increase participat	tion of NFIP member com	munities in the CRS	Program.		
1.11.1	Apply for/maintain membership in the CRS Program; continue to upgrade rating.	Floodplain Manager	Medium	Long-Range	Local Funds	TBD
1.12	<u>Critical Facilities Assessments.</u> Perform assessments of critic centers, special needs housing, and others) to address buildin reduce vulnerability to damage and disruption of operations described by the control of	g and site vulnerabilities	to hazards, identify			
1.12.1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	City Building Official	Medium	Long-Range	FEMA HMA Grant	TBD
1.12.2	Conduct wildfire vulnerability assessments, including the vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive inventory to identify high and moderate wildfire risk areas.	Fire Department	Medium	Mid-Range	Local Funds	TBD
2	Goal for Property Protection. Protect structures and their occu	pants and contents from	the damaging effect	s of natural hazard	ds.	

	City of Bay Minette Community Action Program						
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years		Estimated Cost	
2.1	<u>Building Relocation.</u> Relocate buildings out of hazardous floo	d areas to safeguard agai	nst damages and es	stablish permanen	t open space).	
2.1.1	Pursue FEMA grant funds to relocate buildings and infrastructure out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	Building Official	High	Short-Range	FEMA HMA Grant	TBD	
2.2	Acquisition. Acquire flood prone buildings and properties and esta	ablish permanent open spac	ce				
2.2.1	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Building Official	High	Short-Range	FEMA HMA Grant	TBD	
2.2.2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Building Official	High	Short-Range	FEMA HMA Grant	TBD	
2.3	Building Elevation. Elevate buildings in hazardous flood areas to	safeguard against damage:	S	1			
2.3.1	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Building Official	High	Short-Range	FEMA HMA Grant	TBD	
2.3.2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	Building Official	High	Short-Range	FEMA HMA Grant	TBD	
2.4	Flood Proofing. Encourage flood proofing of buildings in haza	rdous flood areas to safe	guard against dama	ages.			

	City of Bay Minette Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
2.4.1	Pursue FEMA grant funds for flood proofing pre-FIRM non-residential buildings, where feasible.	Building Official	High	Short-Range	FEMA HMA Grant	TBD			
2.6	Building Retrofits. Retrofit vulnerable buildings to protect against natural hazards damages, including flooding, high winds, tornadoes, hurricanes, severe storms, and earthquakes.								
2.6.1	Pursue FEMA grant funds to retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD			
2.6.2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD			
2.7	Hazard Insurance Awareness. Increase public awareness of flusinkhole, and other damages typically not covered by standard	· ·	•	required for earth	quake, lands	slide,			
2.7.1	Promote the purchase of insurance coverage by property owners and renters for flood damages in high-risk areas.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD			
2.8	Critical Facilities Protection. Protect critical facilities from por relocations of existing facilities located in high-risk zo		•		_				
2.8.1	Install lightning and/or surge protection on existing critical facilities.	Building Official/Building Maintenance	High	Short-Range	FEMA HMA Grant	TBD			
2.8.2	Conduct ongoing tree trimming programs along power lines.	Street Department/Planning Department	Medium	Ongoing	Local Funds	TBD			

	City of Bay Minette Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
2.9	Backup Power. Ensure uninterrupted power supply to critical facilities during emergency events.								
2.9.1	Pursue grant funding for the installation of backup power generators for critical facilities.	Planning Department	High	Ongoing	Local Funds	TBD			
3	Goal for Public Education and Outreach. Educate and inform the public about the risks of hazards and the techniques available to reduce threats to life and property.								
3.1	Map Information. Increase public access to Flood Insurance R	ate Map (FIRM) information	on.						
3.1.1	Publicize the availability of FIRM information to real estate agencies, builders, developers, and homeowners.	Floodplain Manager	High	Ongoing	Local Funds	TBD			
3.2	Outreach Projects. Conduct regular public events to inform the	e public of hazards and m	nitigation measures.						
3.2.1	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Planning Department	Medium	Ongoing	Local Funds	TBD			
3.2.2	Distribute materials, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	Planning Department	Medium	Mid-Range	Local Funds	TBD			
3.2.3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	Planning Department	Low	Mid-Range	Local Funds	TBD			

	City of Bay Minette Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
3.2.4	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Planning Department	Low	Mid-Range	Local Funds	TBD			
3.3	Real Estate Disclosure. Encourage real estate agents to disclose flood plain location for property listings.								
3.3.2	Consider the enactment of a local ordinance or state law to require floodplain location disclosure when a property is listed for sale.	Mayor and Council	Medium	Mid-Range	Local Funds	TBD			
3.4	Library. Use local library resources to educate the public on hazar	rd risks and mitigation alterr	natives.						
3.4.1	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.	Floodplain Manager/Emergency Management Coordinator/Mayor/City Council	Medium	Ongoing	Local Funds	TBD			
3.5	Education Programs. Use schools and other community education	on resources to conduct pro	grams related to haza	ard risks and mitigat	ion measures	S.			
3.5.1	Distribute hazard mitigation brochures to students through area schools.	Emergency Management Coordinator & Staff	Medium	Ongoing	Local Funds	TBD			
3.6	<u>Community Hazard Mitigation Plan Distribution</u> . Distribute the businesses, and residents, using all available means of public		elected officials, in	terested agencies	and organiz	ations,			
3.6.1	Distribute the 2020-2021 plan to local officials, stakeholders, and interested individuals through internet download.	Emergency Management Coordinator & Staff	Medium	Ongoing	Local Funds	TBD			
3.7	<u>Technical Assistance</u> . Make qualified local government staff a alternatives.	vailable to advise propert	ty owners on various	s hazard risks and	mitigation				

	City of Bay Minette Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
3.7.1	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Floodplain Administrator/Building Official	Medium	Ongoing	Local Funds	TBD			
3.8	Mass Media Relations. Utilize all available mass media, such as, newspapers, radio, TV, cable access, internet blogs, podcasts, video sharing, and on-line social networking to increase public awareness and distribute public information on hazard mitigation topics.								
3.8.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Mayor and Council	Medium	Ongoing	Local Funds	TBD			
3.9	Weather Radios. Improve public access to weather alerts.								
3.9.1	Promote the use of weather radios in households and businesses.	Mayor and Council	Medium	Mid-Range	Local Funds	TBD			
3.9.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	Local Government	High	Ongoing	НМА	TBD			
3.10	<u>Disaster Warning</u> . Improve public warning systems.								
3.10.1	Establish an ALERT flood warning system at strategic locations in the county, including at a minimum, sensors that provide real-time access to stream flow, stream stage, and precipitation data.	Floodplain Administrator/Building Official	Medium	Ongoing	Local Funds	TBD			
3.10.2	Ensure that the ALERT warning system links data into GIS with the ability to use measured and forecasted rainfall to predict potential flood levels and create real-time maps of flooded areas.	Local Government	High	Long-Range	TBD	TBD			
3.10.3	Evaluate the feasibility of a shared tri-county ALERT system covering Baldwin, Escambia, and Mobile Counties.	Local Government	High	Long-Range	TBD	TBD			

	City of Bay Minette Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
3.10.5	Upgrade critical communications infrastructure.	Local Government	High	Long-Range	TBD	TBD			
4	Goal for Natural Resources Protection. Preserve and restore to development that balances the constraints of nature with the s			•	ustainable o	community			
4.1	Open Space Easements and Acquisitions. Acquire easements a and wetlands to assure permanent protection of these natural resou		environmentally bene	eficial lands, such a	s hillsides, flo	ood plains,			
4.1.1	Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.								
4.2	River/Stream Corridor Restoration and Protection. Restore and	d protect river and stream	corridors within are	eas.					
4.2.1	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Floodplain Administrator/Building Official	Medium	Ongoing	Local Funds	TBD			
4.2.2	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	City Building Official	Medium	Long-Range	Local Funds	TBD			
4.3	<u>Urban Forestry Programs.</u> Maintain a healthy forest that can h within urban areas.	elp mitigate the damaging	j impacts of flooding	g, erosion, landsli	des, and wild	d fires			
4.3.1	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).	Local Government	Low	Long-Range	TBD	TBD			
4.3.2	Increase overall green spaces in cities by planting hurricane resistant trees with site and location taken into consideration.	Floodplain Administrator/Building Official/Planning Department	Medium	Ongoing	TBD	TBD			

	City of Bay Minette Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
4.3.3	Develop an urban forestry management plan to ensure a progressive urban forestry program aimed at increasing forestry canopy, increased safety and planting hurricane resistant tree species.	Floodplain Administrator/Building Official/Planning Department	Medium	Ongoing	Local Funds	TBD			
4.4	Beach and Dune Protection/Renourishment. Protect beaches and dunes from coastal and man-made erosion and implement renourishment programs.								
4.4.1	Restore and protect wetlands to enhance stormwater drainage.	Planning Department	Medium	Long-Range	Local Funds	TBD			
4.5	<u>Water Resources Conservation Programs.</u> Protect water quali assure uninterrupted potable water supplies.	ty through water conserva	ation programs to m	itigate the effects	of droughts	and			
4.5.1	Enforce water use restrictions during periods of drought to conserve existing water supplies.	Local Government	Medium	Long-Range	TBD	TBD			
5	Goal for Structural Projects. Apply engineered structural mod damaging impacts of hazards, where feasible, cost effective, a			structure to reduce	the potenti	ally			
5.1	<u>Drainage System Maintenance.</u> Improve maintenance program	ns for streams and drainag	ge ways.						
5.1.1	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Planning Department	Medium	Long-Range	Local Funds	TBD			
5.2	Reservoirs and Drainage System Improvements. Control flooding feasible, such as levees/floodwalls, diversions, channel modification	•			med cost effe	ective and			
5.2.1	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Floodplain Administrator, Street Department, Local Government	Medium	Long-Range	TBD	TBD			

	City of Bay Minette Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
5.3	Community Shelters and Safe Rooms. Provide shelters from no	atural hazards for the safe	ety of community re	sidents.					
5.3.1	Ensure the inclusion of storm shelters and/or safe rooms in public buildings such as schools and multi-purpose community centers.	City Building Official	High	Short-Range	FEMA HMA Grant	TBD			
5.3.2	Pursue grand funds to establish a program for subsidizing safe room and storm shelter construction in appropriate locations and facilities.	City Building Official	High	Short-Range	FEMA HMA Grant	TBD			
5.3.3	Encourage the construction of safe rooms in new and existing homes and buildings.	City Building Official	High	Short-Range	FEMA HMA Grant	TBD			

A.3 Daphne Community Action Program

Da	City of Daphne Community Action Program									
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost				
1	Goal for Prevention. Manage the development of land and build	lings to minimize risks of	loss due to natural	hazards.						
1.1	<u>Comprehensive Plans and Smart Growth</u> . Establish an active c sustainable community development.	omprehensive planning p	rogram that is cons	sistent with Smart (Growth princ	ciples of				
1.1.1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.	Community Development Department	High	Short- Range	Local Funds	TBD				
1.1.2	Integrate the findings and recommendations of this plan into comprehensive plan amendments for jurisdictions with active comprehensive planning programs.	Community Development Department	Medium	Mid-Range	Local Funds	TBD				
1.1.3	Prepare a five-year capital improvements plan (CIP) to include capital projects that implements the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	Mayor and Council	Medium	Mid-Range	Local Funds	TBD				
1.2	<u>Geographic Information Systems (GIS)</u> . Maintain a comprehens facilities inventories.	sive database of hazards	locations, socio eco	onomic data, infras	tructure, and	d critical				

	City of Daphne Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.2.2	Integrate FEMA HAZUS-MH applications for hazard loss estimations within local GIS programs. Maintain up-to-date data within GIS to apply the full loss estimation capabilities of HAZUS.	Community Development Department	Medium	Mid-Range	Local Funds	TBD			
1.2.3	Mark depths of flooding and storm surge immediately after each event. Enter and maintain these historical records in GIS.	Community Development Department	Medium	Mid-Range	Local Funds	TBD			
1.3	Planning Studies. Conduct special studies, as needed, to identify hazard risks and mitigation measures.								
1.3.1	Carry out detailed planning and engineering studies for sub- basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Community Development Department	Medium	Mid-Range	Local Funds	TBD			
1.3.2	Identify existing culturally or socially significant structures and critical facilities within Baldwin County that have the most potential for losses from natural hazard events and identify needed structural upgrades.	Community Development Department	Medium	Mid-Range	Local Funds	TBD			
1.3.3	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	Community Development Department	Medium	Mid-Range	Local Funds	TBD			
1.3.4	Inventory and map existing fire hydrants throughout the jurisdiction, and identify areas in need of new fire hydrants.	Community Development Department	Medium	Mid-Range	Local Funds	TBD			
1.3.5	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	Community Development Department	Medium	Mid- Range/Ongoing	FEMA HMA Grant	TBD			

	City of Daphne Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.4	Zoning. Establish effective zoning controls, where applicable, development.	to vulnerable land areas to	o discourage enviro	nmentally incompa	atible land u	se and			
1.4.1	Consider large lot size restrictions on flood prone areas designated on Flood Insurance Rate Maps.	Community Development Department	Medium	Mid-Range	Local Funds	TBD			
1.4.2	Evaluate additional land use restrictions within designated flood zones, such as prohibition of storage of buoyant materials, storage of hazardous materials, restrictive development of flood ways, among others.	Community Development Department	Medium	Mid-Range	Local Funds	TBD			
1.4.3	Require delineation of flood plain fringe, floodways, and wetlands on all plans submitted with a permit for development within a flood plain.	Community Development Department	Medium	Mid-Range	Local Funds	TBD			
1.5	Open Space Preservation. Minimize disturbances of natural lar natural features such as open space for parks, conservation are			through regulation	s that main	tain critical			
1.5.1	Examine regulatory options and feasibility of requiring open space areas for recreation, landscaping, and drainage control.	Community Development Department	Medium	Long-Range	Local Funds	TBD			
1.6	Flood Plain Management Regulations. Effectively administer at	nd enforce local floodplai	n management regu	lations.					
1.6.1	Train local flood plain managers through programs offered by the State Flood Plain Coordinator or FEMA's training center in Emmitsburg, Maryland.	Mayor and Council	High	Short-Range	Local Funds	TBD			
1.6.2	Maintain a library of technical assistance and guidance materials to support the local floodplain manager.	Floodplain Manager	High	Short-Range	Local Funds	TBD			

	City of Daphne Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.6.3	Promote the adoption of uniform flood hazard prevention ordinance among all NFIP communities. The ordinance standards should encourage flood plain management that maintains the natural and beneficial functions of flood plains by maximizing the credits that could be obtained for "Higher Regulatory Standards" under the Community Rating System (CRS) Program.	Floodplain Manager	High	Short-Range	Local Funds	TBD			
1.6.4	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association Flood Plain Managers and encourage active participation.	Floodplain Manager	High	Short-Range	Local Funds	TBD			
1.6.5	Participate in the "Turn Around Don't Drown" program by purchasing and installing signs in known flash flood bridge overpass locations.	Floodplain Manager	High	Short-Range	Local Funds	TBD			
1.6.6	Improve flood risk assessment by documenting high water marks post event, verification of FEMA's repetitive loss inventory and revising and updating regulatory floodplain maps.	Floodplain Manager	Low	Long-Range	Local Funds	TBD			
1.7	Building and Technical Codes. Review local codes for effective damages.	eness of standards to prof	tect buildings and in	frastructure from	natural haza	ird			
1.7.1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	Building Inspection Department	High	Ongoing	Local Funds	TBD			
1.7.2	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of "hurricane clips."	Building Inspection Department	High	Ongoing	Local Funds	TBD			

	City of Daphne Community Action Program									
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost				
1.7.3	Relocate existing utility lines underground, where feasible and cost effective, and require, through local subdivision and land development regulations, the placement of all new utility lines underground for large residential subdivisions and commercial developments.	Community Development Department	High	Ongoing	Local Funds	TBD				
1.7.4	Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters.	Building Inspection Department	High	Ongoing	Local Funds	TBD				
1.7.5	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	Building Inspection Department	High	Ongoing	Local Funds	TBD				
1.7.6	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	Community Development Department	Medium	Long-Range	Local Funds	TBD				
1.8	<u>Landscape Ordinances.</u> Establish minimum standards for plan aesthetics.	ting areas for trees and ve	egetation to reduce	storm water runoff	and improv	e urban				
1.8.1	Review and revise as necessary, landscaping standards for parking lots that reduce the size of impervious surfaces and encourage natural infiltration of rainwater.	Community Development Department	Medium	Long-Range	Local Funds	TBD				
1.8.2	Establish ordinances to help mitigate fire hazards related to fuel buildup due to recent hurricanes, by raising tree canopies close to homes, thinning forests near urban areas, and removing trees that are too close to homes.	Community Development Department	Medium	Long-Range	Local Funds	TBD				

	City of Daphne Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.8.3	Establish ordinance for the planting of new urban forests or replacement of hurricane damaged urban forests using hurricane resistant tree species to mitigate wind and erosion problems, help beautify and promote healthy urban environments and reduce heating, cooling and storm runoff costs.	Community Development Department	Medium	Long-Range	Local Funds	TBD			
1.9	Storm Water Management. Manage the impacts of land development on storm water runoff rates and to natural drainage systems.								
1.9.1	Promote the adoption/enforcement of storm water management regulations that maintain pre-development runoff rates.	Community Development Department	Medium	Ongoing	Existing	TBD			
1.9.2	Develop, adopt and implement subdivision regulations that require proper storm water infrastructure design and construction.	Community Development Department	Medium	Ongoing	Existing	TBD			
1.9.3	Establish urban forestry program to help mitigate storm water runoff common in areas with large impervious surfaces.	Community Development Department	Medium	Ongoing	Existing	TBD			
1.10	<u>Dam Safety Management.</u> Establish a comprehensive dam safe	ety program.							
1.10.1	Support legislation to establish a State dam safety program.	Community Development Department	Medium	Long-Range	Local Funds	TBD			
1.11	Community Rating System Program (CRS). Increase participat	ion of NFIP member comn	nunities in the CRS	Program.					
1.11.1	Apply for/maintain membership in the CRS Program; continue to upgrade rating.	Floodplain Manager	Medium	Long-Range	Local Funds	TBD			

	City of Daphne	Community Action Progr	ram				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost	
1.12	<u>Critical Facilities Assessments.</u> Perform assessments of critical special needs housing, and others) to address building and site vulnerability to damage and disruption of operations during second	vulnerabilities to hazard	s, identify damage o		•		
1.12.1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	Community Development Department	Medium	Long-Range	FEMA HMA Grant	TBD	
1.12.2	Conduct wildfire vulnerability assessments, including the vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive inventory to identify high and moderate wildfire risk areas.	Community Development Department	Medium	Long-Range	FEMA HMA Grant	TBD	
2	Goal for Property Protection. Protect structures and their occup	pants and contents from t	he damaging effects	s of natural hazard	s.		
2.1	Building Relocation. Relocate buildings out of hazardous flood	l areas to safeguard again	st damages and est	tablish permanent	open space.		
2.1.1	Pursue FEMA grant funds to relocate buildings and infrastructure out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	Building Inspection Department	High	Short-Range	FEMA HMA Grant	TBD	
2.2	Acquisition. Acquire flood prone buildings and properties and establish permanent open space.						
2.2.1	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Building Inspection Department	High	Short-Range	FEMA HMA Grant	TBD	

	City of Daphne Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
2.2.2	Utilize the recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Building Inspection Department	High	Short-Range	FEMA HMA Grant	TBD			
2.3	2.3 <u>Building Elevation.</u> Elevate buildings in hazardous flood areas to safeguard against damages.								
2.3.1	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Building Inspection Department	High	Short-Range	FEMA HMA Grant	TBD			
2.3.2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	Building Inspection Department	High	Short-Range	FEMA HMA Grant	TBD			
2.4	Flood Proofing. Encourage flood proofing of buildings in hazar	rdous flood areas to safeg	juard against damaç	jes.					
2.4.1	Pursue FEMA grant funds for flood proofing pre-FIRM non-residential buildings, where feasible.	Building Inspection Department	High	Short-Range	FEMA HMA Grant	TBD			
2.5	2.5 Flood Control Measures. Construct small flood control measures to reduce/prevent flood damage.								
2.5.1	Examine use of minor structural projects (small berm or floodwalls) in areas that cannot be mitigated through non-structural mitigation techniques.	Community Development Department	Medium	Long-Range	FEMA HMA Grant	TBD			

	City of Daphne	Community Action Progr	ram			
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost
2.5.2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	Building Department	High	Ongoing	TBD	TBD
2.6	<u>Building Retrofits</u> . Retrofit vulnerable buildings to protect again severe storms, and earthquakes.	nst natural hazards damaç	ges, including floodi	ng, high winds, to	rnadoes, hu	rricanes,
2.6.1	Retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	Floodplain Manager	Medium	Ongoing	FEMA HMA Grant	TBD
2.6.2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD
2.7	Hazard Insurance Awareness. Increase public awareness of flosinkhole, and other damages typically not covered by standard	· ·	•	required for earthq	uake, lands	lide,
2.7.1	Promote the purchase of insurance coverage by property owners and renters for flood damages in high-risk areas.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD
2.8	<u>Critical Facilities Protection</u> . Protect critical facilities from pote relocations of existing facilities located in high-risk zones or co					trofits or
2.8.1	Install lighting and/or surge protection on existing critical facilities.	Building Inspection Department	High	Ongoing	Local Funds	TBD
2.8.2	Conduct ongoing tree trimming programs along power lines.	Public Works	Medium	Ongoing	Local Funds	TBD
2.9	Back Up Power. Ensure uninterrupted power supply to critical to	l facilities during emergenc	y events.			

	City of Daphne Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
2.9.1	Pursue grant funding for the installation of back-up power generators for critical facilities.	Community Development Department	Medium	Ongoing	FEMA HMA Grant	TBD			
3	Goal for Public Education and Outreach. Educate and inform the public about the risks of hazards and the techniques available to reduce threats to life and property.								
3.1	Map Information. Increase public access to Flood Insurance Ra	ate Map (FIRM) information	n.						
3.1.1	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	Community Development Department	Medium	Ongoing	Local Funds	TBD			
3.2	Outreach Projects. Conduct regular public events to inform the	public of hazards and mi	tigation measures.						
3.2.1	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Community Development Department	Medium	Ongoing	Local Funds	TBD			
3.2.2	Distribute materials, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	Community Development Department	Medium	Mid-Range	Local Funds	TBD			
3.2.3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	Community Development Department	Medium	Mid-Range	Local Funds	TBD			

	City of Daphne Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
3.2.4	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Local Floodplain Manger	Medium	Ongoing	Local Funds	TBD			
3.3	Real Estate Disclosure. Encourage real estate agents to disclo	se flood plain location for	property listings.						
3.3.2	Consider the enactment of a local ordinance or state law to require floodplain location disclosure when a property is listed for sale.	Local Floodplain Manger	Medium	Long-Range	Local Funds	TBD			
3.4	Library. Use local library resources to educate the public on ha	azard risks and mitigation	alternatives.						
3.4.1	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.	Baldwin County EMA	High	Short-Range	Existing	TBD			
3.5	Education Programs. Use schools and other community educa measures.	ition resources to conduc	t programs on topic	s related to hazard	l risks and n	nitigation			
3.5.1	Distribute hazard mitigation brochures to students through area schools.	Baldwin County EMA	High	Short-Range	Existing	TBD			
3.5.2	Educate homeowners about structural and non-structural retrofitting of vulnerable homes.	Baldwin County EMA	High	Short-Range	Existing	TBD			
3.6	<u>Community Hazard Mitigation Plan Distribution</u> . Distribute the businesses, and residents, using all available means of publication.	•	elected officials, into	erested agencies a	ind organiza	tions,			
3.6.1	Distribute the 2015 plan to local officials, stakeholders, and interested individuals through internet download.	Baldwin County EMA	High	Short-Range	Existing	TBD			

	City of Daphne Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
3.6.2	Distribute the 2015 plan summary to the public through local jurisdictions, via the internet and other media.	Baldwin County EMA	High	Short-Range	Existing	TBD		
3.7	Technical Assistance. Make qualified local government staff as	vailable to advise property	owners on various	hazard risks and i	mitigation al	ternatives.		
3.7.1	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Local Floodplain Manger	High	Ongoing	Local Funds	TBD		
3.8	Mass Media Relations. Utilize all available mass media, such as, newspapers, radio, TV, cable access, internet blogs, podcasts, video sharing, and on-line social networking to increase public awareness and distribute public information on hazard mitigation topics.							
3.8.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Mayor and Council	Medium	Ongoing	Local Funds	TBD		
3.9	Weather Radios. Improve public access to weather alerts.							
3.9.1	Promote the use of weather radios in households and businesses.	Mayor and Council	High	Long-Range	Existing	TBD		
3.9.2	Require the installation of weather radios in all public buildings and places of public assembly.	Mayor and Council	Medium	Mid-Range	Existing	TBD		
3.9.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	Mayor and Council	High	Short-Range	FEMA HMA Grant	TBD		
3.10	Disaster Warning. Improve public warning systems.			<u> </u>				
3.10.1	Establish an ALERT flood warning system at strategic locations in the county, including at a minimum, sensors that provide real-time access to stream flow, stream stage, and precipitation data.	Community Development Department	Medium	Mid-Range	FEMA HMA Grant	TBD		

	City of Daphne Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
3.10.2	Ensure that the ALERT warning system links data into GIS with the ability to use measured and forecasted rainfall to predict potential flood levels and create real-time maps of flooded areas.	Community Development Department	Medium	Mid-Range	FEMA HMA Grant	TBD			
3.10.3	Evaluate the feasibility of a shared tri-county ALERT system covering Baldwin, Escambia, and Mobile counties.	Community Development Department	Medium	Mid-Range	Local Funds	TBD			
3.10.4	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	Community Development Department	Medium	Mid-Range	FEMA HMA Grant	TBD			
3.10.5	Upgrade critical communications infrastructure.	Community Development Department	Medium	Mid-Range	FEMA HMA Grant	TBD			
4	Goal for Natural Resources Protection. Preserve and restore the development that balances the constraints of nature with the so				stainable co	ommunity			
4.1	Open Space Easements and Acquisitions. Acquire easements a plains, and wetlands to assure permanent protection of these n		of environmentally	beneficial lands, s	uch as hillsi	des, flood			
4.1.1	Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.	Community Development Department	Medium	Mid-Range	FEMA HMA Grant	TBD			
4.2	River/Stream Corridor Restoration and Protection. Restore and	protect river and stream	corridors within are	eas.					
4.2.1	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Community Development Department	Medium	Mid-Range	Local Funds	TBD			

	City of Daphne Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
4.2.2	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	Community Development Department	Medium	Long-Range	Local Funds	TBD			
4.3	4.3 <u>Urban Forestry Programs.</u> Maintain a healthy forest that can help mitigate the damaging impacts of flooding, erosion, landslides, and wild fires within urban areas.								
4.3.1	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).	Community Development Department	Medium	Long-Range	Local Funds	TBD			
4.3.2	Increase overall green spaces in cities by planting hurricane resistant trees with site and location taken into consideration.	Community Development Department	Medium	Long-Range	Local Funds	TBD			
4.3.3	Develop an urban forestry management plan to ensure a progressive urban forestry program aimed at increasing forestry canopy, increased safety and planting hurricane resistant tree species.	Community Development Department	Medium	Long-Range	Local Funds	TBD			
4.4	Beach and Dune Protection/Renourishment. Protect beaches a programs.	nd dunes from coastal an	nd man-made erosio	n and implement re	enourishme	nt			
4.4.1	Restore and protect wetlands to enhance stormwater drainage.	Community Development Department	Medium	Long-Range	Local Funds	TBD			
4.4.2	Develop a coastal renourishment program.	Community Development Department	Medium	Long-Range	Local Funds	TBD			

	City of Daphne	Community Action Progr	ram					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
4.5	Water Resources Conservation Programs. Protect water quant droughts and assure uninterrupted potable water supplies.	ity and quality through wa	ater conservation pr	ograms to mitigate	the effects	of		
4.5.1	Enforce water use restrictions during periods of drought to conserve existing water supplies.	Community Development Department	High	Short-Range	Local Funds	TBD		
5	Goal for Structural Projects. Apply engineered structural modified damaging impacts of hazards, where feasible, cost effective, and			tructure to reduce	the potentia	illy		
5.1	<u>Drainage System Maintenance.</u> Improve maintenance programs for streams and drainage ways.							
5.1.1	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Building Inspection Department	Medium	Long-Range	Local Funds	TBD		
5.2	Reservoirs and Drainage System Improvements. Control flooding feasible, such as levees/floodwalls, diversions, channel modification				ned cost effe	ctive and		
5.2.1	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Community Development Department	High	Short-Range	FEMA HMA Grant	TBD		
5.2.2	Improve and retrofit water supply systems to save water during drought events and to eliminate breaks and leaks.	Community Development Department	High	Short-Range	FEMA HMA Grant	TBD		
5.3	Community Shelters and Safe Rooms. Provide shelters from na	tural hazards for the safe	ty of community res	sidents.				
5.3.1	Ensure the inclusion of storm shelters and/or safe rooms in public buildings such as schools and multi-purpose community centers.	Community Development Department	High	Short-Range	FEMA HMA Grant	TBD		
5.3.2	Pursue grant funds to establish a program for subsidizing safe room and storm shelter construction in appropriate locations and facilities.	Community Development Department	High	Short-Range	FEMA HMA Grant	TBD		

	City of Daphne Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
5.3.3	Encourage the construction of safe rooms in new and existing homes and buildings.	Community Development Department	High	Short-Range	FEMA HMA Grant	TBD			

A.4 Elberta Community Action Program

	Town of Elberta Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1	Goal for Prevention. Manage the development of land and build								
1.1	Comprehensive Plans and Smart Growth. Establish an active of sustainable community development.	comprehensive planning p	program that is cons	istent with Smart (Growth princ	ciples of			
1.1.3	Prepare a five-year capital improvements plan (CIP) to include capital projects that implements the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	Planning Department	Medium	Mid-Range	Local Funds	TBD			
1.2	Geographic Information Systems (GIS). Maintain a comprehensifacilities inventories.	sive database of hazards	locations, socio eco	nomic data, infras	tructure, and	l critical			
1.2.3	Mark depths of flooding and storm surge immediately after each event. Enter and maintain these historical records in GIS.	Planning Department	Medium	Mid-Range	Local Funds	TBD			
1.3	Planning Studies. Conduct special studies, as needed, to ident	tify hazard risks and mitig	ation measures.						
1.3.1	Carry out detailed planning and engineering studies for sub- basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Planning Department	Medium	Mid-Range	FEMA HMA Grant	TBD			
1.5	Open Space Preservation. Minimize disturbances of natural lar natural features such as open space for parks, conservation are			through regulation	ns that maint	ain critical			
1.5.1	Examine regulatory options and feasibility of requiring open space areas for recreation, landscaping, and drainage control.	Planning Department	Medium	Long-Range	Local Funds	TBD			

	Town of Elberta Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.6	Flood Plain Management Regulations. Effectively administer a	nd enforce local floodplain	n management regu	lations.					
1.6.4	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association Flood Plain Managers and encourage active participation.	Floodplain Manager	High	Short-Range	Local Funds	TBD			
1.6.5	Participate in the "Turn Around, Don't Drown" program by purchasing and installing signs in known flash flood overpass locations.	Floodplain Manager/Emergency Management Coordinator	High	Short-Range	Local Funds	TBD			
1.7	Building and Technical Codes. Review local codes for effective damages.	eness of standards to pro	tect buildings and in	frastructure from	natural haza	rd			
1.7.3	Relocate existing utility lines underground, where feasible and cost effective, and require, through local subdivision and land development regulations, the placement of all new utility lines underground for large residential subdivisions and commercial developments.	Planning Department	High	Ongoing	Local Funds	TBD			
1.7.6	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	Planning Department	High	Ongoing	FEMA HMA Grant	TBD			
1.8	Landscape Ordinances. Establish minimum standards for plan aesthetics.	ting areas for trees and ve	egetation to reduce	storm water runof	f and improv	e urban			
1.8.1	Review and revise as necessary, landscaping standards for parking lots that reduce the size of impervious surfaces and encourage natural infiltration of rainwater.	Planning Department	Medium	Long-Range	Local Funds	TBD			

	Town of Elberta Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.8.3	Establish ordinance for the planting of new urban forests or replacement of hurricane damaged urban forests using hurricane resistant tree species to mitigate wind and erosion problems, help beautify and promote healthy urban environments and reduce heating, cooling and storm runoff costs.	Floodplain Manager	Medium	Long-Range	Local Funds	TBD			
1.9	Storm Water Management. Manage the impacts of land development on storm water runoff rates and to natural drainage systems.								
1.9.3	Establish urban forestry program to help mitigate storm water runoff common in areas with large impervious surfaces.	Planning Department	Medium	Ongoing	Existing	TBD			
1.10	Community Rating System Program (CRS). Increase participat	ion of NFIP member comm	nunities in the CRS	Program.					
1.12	<u>Critical Facilities Assessments.</u> Perform assessments of critical special needs housing, and others) to address building and site vulnerability to damage and disruption of operations during seconds.	vulnerabilities to hazard	s, identify damage c						
1.12.1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	Building Official	Medium	Ongoing	Local	TBD			
2	Goal for Property Protection. Protect structures and their occup	pants and contents from t	he damaging effects	of natural hazard	s.				
2.1	Building Relocation. Relocate buildings out of hazardous floor	l areas to safeguard again	st damages and est	ablish permanent	open space.				
2.2	Acquisition. Acquire flood prone buildings and properties and	establish permanent open	ı space.						
2.2.1	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD			

	Town of Elberta Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
2.2.2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD			
2.3	2.3 <u>Building Elevation</u> . Elevate buildings in hazardous flood areas to safeguard against damages.								
2.3.1	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD			
2.3.2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD			
2.4	Flood Proofing. Encourage flood proofing of buildings in hazar	rdous flood areas to safeg	guard against damag	ges.					
2.4.1	Pursue FEMA grant funds for flood proofing pre-FIRM non-residential buildings, where feasible.	Floodplain Manager	Medium	Ongoing	FEMA HMA Funds	TBD			
2.5	<u>Building Retrofits</u> . Retrofit vulnerable buildings to protect again severe storms, and earthquakes.	nst natural hazards damaç	ges, including floodi	ng, high winds, to	rnadoes, hur	ricanes,			
2.5.1	Pursue FEMA grant funds to retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD			

	Town Of Elberta Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
2.5.2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD			
2.6	Hazard Insurance Awareness. Increase public awareness of flood insurance and special riders that may be required for earthquake, landslide, sinkhole, and other damages typically not covered by standard property protection policies.								
2.6.1	Promote the purchase of insurance coverage by property owners and renters for flood damages in high-risk areas.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD			
2.7	<u>Critical Facilities Protection</u> . Protect critical facilities from pote relocations of existing facilities located in high-risk zones or co					trofits or			
2.7.1	Install lightning and/or surge protection on existing critical facilities.	Building Official	High	Ongoing	Local Funds	TBD			
2.7.2	Conduct ongoing tree trimming programs along power lines.								
2.8	Back Up Power. Ensure uninterrupted power supply to critical to	facilities during emergenc	y events.						
2.8.1	Pursue grant funding for the installation of back-up power generators for critical facilities.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD			
3	Goal for Public Education and Outreach. Educate and inform the life and property.			echniques availabl	le to reduce f	threats to			
3.1	Outreach Projects. Conduct regular public events to inform the		itigation measures.						
3.1.1	Publicize the availability of FIRM information to real estate agencies, builders, developers, and homeowners.	Floodplain Administrator	Medium	On-going	TBD	TBD			

	Town of Elberta Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
3.1.2	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Planning Department	Medium	Ongoing	Local Funds	TBD			
3.2	3.2 Community Hazard Mitigation Plan Distribution. Distribute the hazard mitigation plan to elected officials, interested agencies and organizations, businesses, and residents, using all available means of publication and distribution.								
3.2.1	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Local Government	Medium	Ongoing	Local Funds	TBD			
3.2.2	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	Local Government	Medium	Ongoing	Local Funds	TBD			
3.2.3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	Local Government	Medium	Ongoing	Local Funds	TBD			
3.2.4	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Local Government	Medium	Ongoing	Local Funds	TBD			
3.3	<u>Technical Assistance</u> . Make qualified local government staff av	vailable to advise property	owners on various	hazard risks and i	mitigation all	ernatives.			
3.3.1	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Local Floodplain Manger	High	Ongoing	Local Funds	TBD			

	Town of Elberta Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
3.3.2	Consider the enactment of a local ordinance or state law to require floodplain disclosure when a property is for sale.	Local Government	Medium	Ongoing	Local Funds	TBD			
3.4	Mass Media Relations. Utilize all available mass media, such as, newspapers, radio, TV, cable access, internet blogs, podcasts, video sharing, and on-line social networking to increase public awareness and distribute public information on hazard mitigation topics.								
3.4.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Mayor and Council	Medium	Ongoing	Local Funds	TBD			
3.5	Weather Radios. Improve public access to weather alerts.								
3.5.1	Distribute hazard mitigation brochures to students through area schools	Local Government	Medium	Ongoing	Local Funds	TBD			
3.5.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	Mayor and Council	High	Short-Range	Existing	TBD			
3.6	Community Hazard Mitigation Plan Distribution. Distribute the businesses, and residents, using all available means of publications.	• •	elected officials, int	erested agencies a	and organiza	tions,			
3.6.1	Distribute the 2020 plan to local officials, stakeholders, and interested individuals through internet download.	Baldwin County EMA	High	Short-Range	Existing	TBD			
37	Technical Assistance. Make qualified local government staff a	vailable to advise propert	y owners on various	hazard risks and	mitigation al	ternatives.			
37.1	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Building Department	Medium	Ongoing	Local Funds	TBD			
3.8	3.8 Mass Media Relations. Utilize all available mass media, such as, newspapers, radio, TV, cable access, internet blogs, podcasts, video sharing, and on-line social networking to increase public awareness and distribute public information on hazard mitigation topics.								

	Town of Elberta Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
3.8.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Local Government	Medium	Ongoing	Local Funds	TBD			
3.9	Weather Radios. Improve public access to weather alerts.								
3.9.1	Promote the use of weather radios in households and businesses.	Local Government	High	Short-Range	Existing	TBD			
3.9.2	Require the installation of weather radios in all public buildings and places of public assembly.	Local Government	High	Short-Range	Existing	TBD			
3.9.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	Local Government	High	Short-Range	Existing	TBD			
3.10	<u>Disaster Warning</u> . Improve public warning systems.								
3.10.1	Establish an ALERT flood warning system at strategic locations in the county, including at a minimum, sensors that provide real-time access to stream flow, stream stage, and precipitation data.	Local Government	High	Mid-Range	FEMA HMA Grant	TBD			
3.10.2	Ensure that the ALERT warning system links data into GIS with the ability to use measured and forecasted rainfall to predict potential flood levels and create real-time maps of flooded areas.	Local Government	High	Mid-Range	FEMA HMA Grant	TBD			
3.10.4	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	Local Government	High	Mid-Range	FEMA HMA Grant	TBD			
3.10.5	Upgrade critical communications infrastructure.	Local Government	High	Long-Range	TBD	TBD			
4	Goal for Natural Resources Protection. Preserve and restore th development that balances the constraints of nature with the so			•	stainable co	mmunity			

	Town of Elberta Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more	than five years Funding Source	Estimated Cost			
4	Goal for Natural Resources Protection. Preserve and restore the development that balances the constraints of nature with the second constraints.				sustainable c	ommunity			
4.1	4.1 Open Space Easements and Acquisitions. Acquire easements and fee-simple ownership of environmentally beneficial lands, such as hillsides, flood plains, and wetlands to assure permanent protection of these natural resources.								
4.1.1	1 Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.								
4.2	2 River/Stream Corridor Restoration and Protection. Restore and protect river and stream corridors within areas.								
4.2.1	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Floodplain Administrator/Building Official	Medium	Ongoing	Local Funds	TBD			
4.2.2	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	City Building Official	Medium	Long-Range	Local Funds	TBD			
4.3	<u>Urban Forestry Programs.</u> Maintain a healthy forest that can he urban areas.	elp mitigate the damaging	impacts of flooding	ı, erosion, landsli	des, and wild	d fires within			
4.3.1	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).	Local Government	Low	Long-Range	TBD	TBD			
4.3.2	Increase overall green spaces in cities by planting hurricane resistant trees with site and location taken into consideration.	Floodplain Administrator/Building Official/Planning Department	Medium	Ongoing	TBD	TBD			
4.3.3	Develop an urban forestry management plan to ensure a progressive urban forestry program aimed at increasing forestry canopy, increased safety and planting hurricane resistant tree species.	Floodplain Administrator/Building Official/Planning Department	Medium	Ongoing	Local Funds	TBD			

	Town of Elberta Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more	than five years Funding Source	Estimated Cost			
4.4	Beach and Dune Protection/Renourishment. Protect beaches a programs.	and dunes from coastal ar	nd man-made erosio	n and implement	renourishme	nt			
4.4.1	Restore and protect wetlands to enhance stormwater drainage.	Planning Department	Medium	Long-Range	Local Funds	TBD			
4.5	<u>Water Resources Conservation Programs.</u> Protect water quality through water conservation programs to mitigate the effects of droughts and assure uninterrupted potable water supplies.								
4.5.1	Enforce water use restrictions during periods of drought to conserve existing water supplies.	Local Government	Medium	Long-Range	TBD	TBD			
5	Goal for Structural Projects. Apply engineered structural modi damaging impacts of hazards, where feasible, cost effective, ar	•		tructure to reduce	the potentia	ally			
5.1	Drainage System Maintenance. Improve maintenance program	s for streams and drainag	ge ways.						
5.1.1	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Planning Department	Medium	Long-Range	Local Funds	TBD			
5.2	Reservoirs and Drainage System Improvements. Control floodir feasible, such as levees/floodwalls, diversions, channel modification				med cost effe	ctive and			
5.2.1	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Floodplain Administrator, Street Department, Local Government	Medium	Long-Range	TBD	TBD			
5.3	Community Shelters and Safe Rooms. Provide shelters from na	atural hazards for the safe	ety of community res	sidents.					
5.3.1	Ensure the inclusion of storm shelters and/or safe rooms in public buildings such as schools and multi-purpose community centers.	City Building Official	High	Short-Range	FEMA HMA Grant	TBD			

	Town of Elberta Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	t-Rang two ye Range= s	Funding Source	Estimated Cost			
5.3.2	Pursue grand funds to establish a program for subsidizing safe room and storm shelter construction in appropriate locations and facilities.	City Building Official	High	Short-Range	FEMA HMA Grant	TBD			
5.3.3	Encourage the construction of safe rooms in new and existing homes and buildings.	City Building Official	High	Short-Range	FEMA HMA Grant	TBD			

A.5 Fairhope Community Action Program

	City of Fairhope Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1	Goal for Prevention. Manage the development of land and buildings to minimize risks of loss due to natural hazards.								
1.1	Comprehensive Plans and Smart Growth. Establish an acti sustainable community development.	ve comprehensive plannii	ng program that is c	onsistent with Smart	Growth princ	ciples of			
1.1.1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.	Planning Department	High	Mid-range	RESTORE /Local Funds	\$650k			
1.1.2	Integrate the findings and recommendations of this plan into comprehensive plan amendments for jurisdictions with active comprehensive planning programs.	Planning Department	High	Part of Comp Plan	RESTORE /Local Funds	Included in item above			
1.1.3	Prepare a five-year capital improvements plan (CIP) to include capital projects that implements the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	Planning Department	High	Ongoing	Local Funds	TBD			
1.2	Geographic Information Systems (GIS). Maintain a compre facilities inventories.	hensive database of hazar	rds locations, socio	economic data, infra	structure, and	d critical			

	City of Fairhope Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Wid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.2.1	Maintain a centralized, countywide natural hazards and risk assessment database in GIS that is accessible to local planners and emergency management personnel, including such data as, flood zones, geohazards, major drainages structures, dams/levees, hurricane surge areas, tornado tracks, disaster events and their extents, and a comprehensive inventory of critical facilities within all jurisdictions.	City Engineer/Baldwin County EMA	High	Short-Range	FEMA HMA Grant	\$35,000			
1.2.2	Integrate FEMA HAZUS-MH applications for hazard loss estimates within local GIS program. Maintain up-to-date within GIS to apply the full loss estimation capabilities of HAZUS.	City GIS Department/Planning Department	High	Ongoing	FEMA HMA Grant	TBD			
1.2.3	Mark depths of flooding and storm surge immediately after each event. Enter and maintain these historical records in GIS.	City GIS Department/Planning Department	Moderate	Ongoing	Local Funds	TBD			
1.3	<u>Planning Studies</u> . Conduct special studies, as needed, to it	dentify hazard risks and m	nitigation measures.						
1.3.1	Carry out detailed planning and engineering studies for sub- basins in critical flood hazard areas to determine watershed- wide solutions to flooding.	City GIS Department/Planning Department/ City Engineer/ Floodplain Manager	High	Ongoing	Local Funds/ FEMA HMA Grant	TBD			
1.3.2	Identify existing culturally or socially significant structures and critical facilities within Baldwin County that have the most potential for losses from natural hazard events and identify needed structural upgrades.	Planning Department	Low	Long-Range	TBD	TBD			

	City of Fairhope Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.3.3	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	City GIS Department/Planning Department/ City Engineer	Medium	Long-Range	FEMA HMA Grant	TBD			
1.3.4	Inventory and map existing fire hydrants throughout the county, and identify areas in need of new fire hydrants.	Fire Department/Water Dept/GIS	Medium	Ongoing	Local Funds	TBD			
1.3.5	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	Public Works Department	High	Ongoing	FEMA HMA Grant	TBD			
1.4	Zoning. Establish effective zoning controls, where applical development.	ole, to vulnerable land are	as to discourage env	vironmentally incomp	oatible land u	se and			
1.4.4	Enact local ordinance that require community storm shelters within sizeable mobile home parks and subdivisions.	Planning Department/ Floodplain Manager	Low	Long-Range	Local Funds	TBD			
1.5	Open Space Preservation. Minimize disturbances of natural natural features such as open space for parks, conservation			off through regulatio	ns that main	tain critical			
1.6	Flood Plain Management Regulations. Effectively administration	er and enforce local flood	plain management re	egulations.					
1.6.5	Participate in the "Turn Around Don't Drown" program by purchasing and installing signs in known flash flood bridge overpass locations.	Floodplain Manager	Medium	Mid-Range	TBD	TBD			
1.7	Building and Technical Codes. Review local codes for effectiveness of standards to protect buildings and infrastructure from natural hazard damages.								

	City of Fairhope Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.7.6	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	Building Official/ Planning Department/ Baldwin County EMA	Medium	Long-Range	FEMA HMA Grant	TBD			
1.8	<u>Landscape Ordinances.</u> Establish minimum standards for planting areas for trees and vegetation to reduce storm water runoff and improve urban aesthetics.								
1.8.2	Review and revise as necessary, landscaping standards for parking lots that reduce the size of impervious surfaces and encourage natural infiltration of rainwater.	Planning Department	High	Approved/Ongoing Evaluations	TBD	TBD			
1.8.3	Establish ordinance for the planting of new urban forests or replacement of hurricane damaged urban forests using hurricane resistant tree species to mitigate wind and erosion problems, help beautify and promote healthy urban environments and reduce heating, cooling and storm runoff costs.	City Council	Low	Long-Range	TBD	TBD			
1.9	Storm Water Management. Manage the impacts of land dev	 velopment on storm water	runoff rates and to	 natural drainage syst	ems.				
1.9.3	Establish urban forestry program to help mitigate storm water runoff common in areas with large impervious surfaces.	Planning Department	Low	Long-Range	Local Funds	TBD			
1.11	Community Rating System Program (CRS). Increase partic	ipation of NFIP member c	ommunities in the C	RS Program.					
1.11.1	Apply for/maintain membership in the CRS Program; continue to upgrade rating.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD			
1.12	Critical Facilities Assessments. Perform assessments of critical facilities (hospitals, schools, fire and police stations, emergency operation centers, special needs housing, and others) to address building and site vulnerabilities to hazards, identify damage control and retrofit measures to reduce vulnerability to damage and disruption of operations during severe weather and disaster events.								

	City of Fairhope Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.12.1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	Building Official/ Planning Department/ City Engineer	High	Long-Range	FEMA HMA Grant	TBD			
1.12.2	Conduct wildfire vulnerability assessments, including the vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive inventory to identify high and moderate wildfire risk areas.	Building Official/ Planning Department/ City Engineer	high	Long-range	Local Funds	TBD			
2	Goal for Property Protection. Protect structures and their or								
2.1	<u>Building Relocation.</u> Relocate buildings out of hazardous f	lood areas to safeguard a	gainst damages and	establish permanent	t open space.				
2.1.1	Pursue FEMA grant funds to relocate buildings out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	Building Official/ Floodplain Manager	High	Ongoing	FEMA HMA Grant	TBD			
2.2	Acquisition. Acquire flood prone buildings and properties	and establish permanent (open space.						
2.2.1	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Building Official/ Floodplain Manager	High	Ongoing	FEMA HMA Grant	TBD			
2.2.2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Building Official/ Floodplain Manager	High	Ongoing	FEMA HMA Grant	TBD			
2.3	2.3 <u>Building Elevation.</u> Elevate buildings in hazardous flood areas to safeguard against damages.								

	City of Fairhope Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
2.3.1	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Building Official/ Floodplain Manager	High	Ongoing	FEMA HMA Grant	TBD			
2.3.2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	Building Official	Medium	Long-Range	FEMA HMA Grant	TBD			
2.4	Flood Proofing. Encourage flood proofing of buildings in h	azardous flood areas to s	afeguard against da	mages.					
2.4.1	Pursue FEMA grant funds for flood proofing pre-FIRM non-residential buildings, where feasible.	Building Official/ Floodplain Manager	Medium	Long-Range	FEMA HMA Grant	TBD			
2.5	Flood Control Measures. Small flood control measures bui	It to reduce/prevent flood	damage.						
2.5.1	Examine use of minor structural projects (small berm or floodwalls) in areas that cannot be mitigated through non-structural mitigation techniques.	Building Official/ Floodplain Manager	Medium	Long-Range	FEMA HMA Grant	TBD			
2.6	Building Retrofits. Retrofit vulnerable buildings to protect a severe storms, and earthquakes.	gainst natural hazards da	mages, including flo	oding, high winds, to	ornadoes, hu	rricanes,			
2.6.1	Pursue FEMA grant funds to retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	Building Official/ City Engineer	High	Ongoing	FEMA HMA Grant	TBD			
2.6.2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	Building Official/ Floodplain Manager	Medium	Ongoing	Local Funds	TBD			

	City of Fairhope Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
2.7	Hazard Insurance Awareness. Increase public awareness of sinkhole, and other damages typically not covered by standard transfer of the standard tr	•	•	be required for earth	quake, lands	lide,			
2.7.1	Promote the purchase of insurance coverage by property owners and renters for flood damages in high-risk areas.	Building Official/ Floodplain Manager	High	Ongoing	Local Funds	TBD			
2.8	<u>Critical Facilities Protection</u> . Protect critical facilities from potential damages and occupants from harm in the event of hazards through retrofits or relocations of existing facilities located in high-risk zones or construction of new facilities for maximum protection from all hazards.								
2.8.1	Install lightning and/or surge protection on existing critical facilities.	Building Official	Low	Long-Range	TBD	TBD			
2.8.2	Conduct ongoing tree trimming programs along power lines	Streets/Public Works	Medium	Ongoing	TBD	TBD			
2.9	Back Up Power. Ensure uninterrupted power supply to criti	cal facilities during emerg	ency events.						
2.9.1	Pursue grant funding for the installation of backup power generators for critical facilities.	Grants Manager	High	Mid-Range	FEMA HMA Grant	TBD			
3	Goal for Public Education and Outreach. Educate and infolife and property.	m the public about the ris	ks of hazards and th	ne techniques availat	ole to reduce	threats to			
3.1	Map Information. Increase public access to Flood Insurance	e Rate Map (FIRM) inform	ation.						
3.1.1	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	Floodplain Administrator / Baldwin County EMA	High	Ongoing	Local Funds	TBD			
3.2	Outreach Projects. Conduct regular public events to inform	n the public of hazards an	d mitigation measure	es.					

	City of Fairhope Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
3.2.1	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	City Staff/EM Coordinator, and Baldwin County EMA	High	Ongoing	Local Funds	TBD			
3.2.2	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	City Staff/EM Coordinator, Baldwin County EMA	High	Ongoing	Local Funds	TBD			
3.2.3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	City Staff/EM Coordinator, Baldwin County EMA	High	Ongoing	Local Funds	TBD			
3.2.4	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	City Staff/EM Coordinator, Baldwin County EMA	High	Ongoing	Local Funds	TBD			
3.3	Real Estate Disclosure. Encourage real estate agents to discl	ose flood plain location for p	property listings.						
3.3.2	Consider the enactment of a local ordinance or state law to require floodplain disclosure when a property is for sale.	Floodplain Administrator, Mayor, and State of Alabama	High	Ongoing	State Funds	TBD			
3.4	<u>Library.</u> Use local library resources to educate the public of	n hazard risks and mitiga	tion alternatives.						
3.4.1	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.	City Staff/EM Coordinator, Baldwin County EMA	Low	Long-Range	Local Funds	TBD			

	City of Fairhope Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
3.5	Education Programs. Use schools and other community educations measures.	ducation resources to con	duct programs on to	pics related to hazar	d risks and r	nitigation		
3.5.1	Distribute hazard mitigation brochures to students through area schools.	City Staff/EM Coordinator, Baldwin County EMA	High	Ongoing	Local Funds	TBD		
3.5.2	Educate homeowners about structural and non-structural retrofitting of vulnerable homes.	City Staff/EM Coordinator, Baldwin County EMA	High	Ongoing	Local Funds	TBD		
3.6	Community Hazard Mitigation Plan Distribution. Distribute businesses, and residents, using all available means of pul			interested agencies	and organiza	ations,		
3.6.1	Distribute the 2020 plan to local officials, stakeholders, and interested individuals through internet download.	City Staff/EM Coordinator, Baldwin County EMA	High	Ongoing	Local Funds	TBD		
3.6.2	Distribute the 2015 plan summary to the public through local jurisdictions, via the internet and other media.	City Staff/EM Coordinator, Baldwin County EMA	High	Ongoing	Local Funds	TBD		
3.7	<u>Technical Assistance</u> . Make qualified local government sta	l Iff available to advise prop	l perty owners on vario	ous hazard risks and	mitigation a	ternatives.		
3.7.1	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Floodplain Manager/ Building Official	High	Ongoing	Local Funds	TBD		
3.8	Mass Media Relations. Utilize all available mass media, suc on-line social networking to increase public awareness and			~	ts, video sha	ring, and		

	City of Fairhope Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
3.8.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	City Staff/EM Coordinator, Baldwin County EMA	High	Ongoing	Local Funds	TBD			
3.9	3.9 Weather Radios. Improve public access to weather alerts.								
3.9.1	Promote the use of weather radios in households and businesses.	City Staff/EM Coordinator, Baldwin County EMA	Medium	Mid-Range	Local Funds	TBD			
3.9.2	Require the installation of weather radios in all public buildings and places of public assembly.	Public Works Dept/ Facility Maintenance	High	Ongoing	FEMA HMA Grant	TBD			
3.9.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	City Staff/EM Coordinator, Baldwin County EMA	Medium	Mid-Range	Local Funds	\$150,000			
3.10	<u>Disaster Warning.</u> Improve public warning systems.								
3.10.1	Establish an ALERT flood warning system at strategic locations in the county, including at a minimum, sensors that provide real-time access to stream flow, stream stage, and precipitation data.	City Staff/EM Coordinator, Baldwin County EMA	High	Mid-Range	FEMA HMA Grant	TBD			
3.10.2	Ensure that the ALERT warning system links data into GIS with the ability to use measured and forecasted rainfall to predict potential flood levels and create real-time maps of flooded areas.	City Staff/EM Coordinator, Baldwin County EMA	High	Mid-Range	FEMA HMA Grant	TBD			

	City of Fairhope Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
3.10.3	Evaluate the feasibility of a shared tri-county ALERT system covering Baldwin, Escambia, and Mobile counties.	Baldwin County EMA	High	Mid-Range	FEMA HMA Grant	TBD			
3.10.5	Upgrade critical communications infrastructure.	City Staff/EM Coordinator, Baldwin County EMA	High	Mid-Range	FEMA HMA Grant	TBD			
4	Goal for Natural Resources Protection. Preserve and resto development that balances the constraints of nature with the constraints of the constrai	ne social and economic de	emands of the comm	unity.					
4.1	Open Space Easements and Acquisitions. Acquire easement plains, and wetlands to assure permanent protection of the	-	snip of environmenta	ally beneficial lands,	sucn as nilisi	aes, 1100a			
4.1.1	Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.	Floodplain Manager/ Planning Department	Medium	Ongoing	FEMA HMA Grant	TBD			
4.2	River/Stream Corridor Restoration and Protection. Restore	and protect river and stre	eam corridors within	areas.					
4.2.1	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Floodplain Manager/ Planning Department	High	Ongoing	Other	TBD			
4.2.2	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	Building Official	High	Ongoing	Local Funds	TBD			
4.3	<u>Urban Forestry Programs.</u> Maintain a healthy forest that ca within urban areas.	n help mitigate the damag	ging impacts of flood	ling, erosion, landsli	des, and wild	fires			
4.3.1	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).	Planning Department	Medium	Ongoing	Local Funds	TBD			

	City of Fairhope Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
4.3.2	Increase overall green spaces in cities by planting hurricane resistant trees with site and location taken into consideration.	Planning Department	Medium	Ongoing	TBD	TBD			
4.3.3	Develop an urban forestry management plan to ensure a progressive urban forestry program aimed at increasing forestry canopy, increased safety and planting hurricane resistant species.	Planning Department	Medium	Ongoing	TBD	TBD			
4.4	Beach and Dune Protection/Renourishment. Protect beaches and dunes from coastal and man-made erosion and implement renourishment programs.								
4.5	<u>Water Resources Conservation Programs.</u> Protect water que droughts and assure uninterrupted potable water supplies.		h water conservatior	n programs to mitiga	te the effects	of			
4.5.1	Enforce water use restrictions during periods of drought to conserve existing water supplies.	Fairhope Water and Sewer Dept	High	Ongoing	Local Funds	TBD			
5	Goal for Structural Projects. Apply engineered structural magning impacts of hazards, where feasible, cost effective	•		rastructure to reduce	the potentia	illy			
5.1	Drainage System Maintenance. Improve maintenance prog	rams for streams and drai	inage ways.						
5.2	Reservoirs and Drainage System Improvements. Control fl effective and feasible, such as levees/floodwalls, diversions					ost			
5.2.2	Improve and retrofit water supply systems to save water during drought events and to eliminate breaks and leaks.	City Engineer/Public Works	High	Ongoing	FEMA HMA Grant	TBD			
5.3	3 Community Shelters and Safe Rooms. Provide shelters from natural hazards for the safety of community residents.								

	City of Fairhope Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
5.3.1	Ensure the inclusion of storm shelters and/or safe rooms in public buildings such as schools and multi-purpose community centers.	Building Official/ Baldwin County EMA	Medium	Long-Range	Local Funds	TBD			
5.3.2	Pursue grant funds to establish a program for subsidizing safe room and storm shelter construction in appropriate locations and facilities.	Planning Department/ Baldwin County EMA	Medium	Long-Range	FEMA HMA Grant	TBD			
5.3.3	Encourage the construction of safe rooms in new and existing homes and buildings.	Building Official/ City Council	Medium	Long-Range	FEMA HMA Grant	TBD			

A.6 Foley Community Action Program

	City of Foley Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
1	Goal for Prevention. Manage the development of land and build							
1.1	Comprehensive Plans and Smart Growth. Establish an active c sustainable community development.	omprehensive planning p	rogram that is consi	istent with Smart (Growth princ	ciples of		
1.1.1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.	Community Development Department	High	Short- Range	Local Funds	TBD		
1.1.2	Integrate the findings and recommendations of this plan into comprehensive plan amendments for jurisdictions with active comprehensive planning programs.	Community Development Department	High	Short-Range	Local Funds	TBD		
1.1.3	Prepare a five-year capital improvements plan (CIP) to include capital projects that implements the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	Finance Department	High	Short-Range	Local Funds	TBD		
1.2	Geographic Information Systems (GIS). Maintain a comprehens facilities inventories.	sive database of hazards l	ocations, socio eco	nomic data, infras	tructure, and	d critical		

	City of Foley Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.2.1	Maintain a centralized, countywide natural hazards and risk assessment database in GIS that is accessible to local planners and emergency management personnel, including such data as, flood zones, geohazards, major drainages structures, dams/levees, hurricane surge areas, tornado tracks, disaster events and their extents, and a comprehensive inventory of critical facilities within all jurisdictions.	IT/GIS Department	High	Short-Range	НМА	TBD			
1.2.2	Integrate FEMA HAZUS-MH applications for hazard loss estimations within local GIS programs. Maintain up-to-date data within GIS to apply the full loss estimation capabilities of HAZUS.	Community Development Department	High	Short-Range	Local Funds	TBD			
1.2.4	Create GIS systems for inventorying and assessing urban forest for in order to identify current and potential hazards and develop a comprehensive plan for managing urban forests.	Fire, Horticulture & Environmental Department	Medium	Mid-Range	Local Funds	TBD			
1.3	Planning Studies. Conduct special studies, as needed, to ident	ify hazard risks and mitig	ation measures.						
1.3.1	Carry out detailed planning and engineering studies for sub- basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Engineering Department	Medium	Mid-Range	FEMA HMA Grant	TBD			
1.3.2	Identify existing culturally or socially significant structures and critical facilities within the jurisdiction that have the most potential for losses from natural hazard events and identify needed structural upgrades.	Engineering Department	Medium	Mid-Range	Local Funds	TBD			
1.3.3	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	Engineering Department	High	Short-Range	Local Funds	TBD			

	City of Foley Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.3.4	Inventory and map existing fire hydrants throughout the county, and identify areas in need of new fire hydrants.	Fire Department Riviera Utilities	High	Short-Range	Local Funds	TBD			
1.3.5	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	Engineering Department	High	Short-Range	FEMA HMA Grant	TBD			
1.4	Zoning. Establish effective zoning controls, where applicable, development.	to vulnerable land areas to	o discourage enviro	nmentally incompa	atible land u	se and			
1.4.1	Consider large lot size restrictions on flood prone areas designated on Flood Insurance Rate Maps.	Community Development Department	High	Short-Range	Local Funds	TBD			
1.4.2	Evaluate additional land use restrictions within designated flood zones, such as prohibition of storage of buoyant materials, storage of hazardous materials, restrictive development of flood ways, among others.	Community Development, Engineering & Environmental Department	High	Short-Range	Local Funds	TBD			
1.4.3	Require delineation of flood plain fringe, floodways, and wetlands on all plans submitted with a permit for development within a flood plain.	Community Development, Environmental & Engineering Department	High	Short-Range	Local Funds	TBD			

	City of Foley Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.4.4	Enact local ordinance that requires community storm shelters within sizeable mobile home parks and subdivisions.	Building Official	High	Long-Range	TBD	TBD			
1.5	Open Space Preservation. Minimize disturbances of natural land features and increased storm water runoff through regulations that maintain critical natural features such as open space for parks, conservation areas, landscaping, and drainage.								
1.5.1	Examine regulatory options and feasibility of requiring open space areas for recreation, landscaping, and drainage control.	Community Development, Engineering & Environmental Department	High	Short-Range	Existing	TBD			
1.6	Flood Plain Management Regulations. Effectively administer at	l nd enforce local floodplair	n management regu	lations.					
1.6.1	Train local flood plain managers through programs offered by the State Flood Plain Coordinator and FEMA's training center in Emmitsburg, Maryland.	Community Development Department	Medium	Mid-Range	Local Funds	TBD			
1.6.2	Maintain a library of technical assistance and guidance materials to support the local floodplain manager.	Community Development Department	High	Short-Term	Local Funds	TBD			
1.6.3	Promote the adoption of uniform flood hazard prevention ordinance among all NFIP communities. The ordinance standards should encourage flood plain management that maintains the natural and beneficial functions of flood plains by maximizing the credits that could be obtained for "Higher Regulatory Standards" under the Community Rating System (CRS) Program.	Floodplain Administrator	High	On-going	Local Funds	TBD			

	City of Foley Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.6.4	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association Flood Plain Managers and encourage active participation.	Community Development, Engineering & Public Works Department	High	Short-Range	Local Funds	TBD			
1.6.5	Participate in the "Turn Around Don't Drown" program by purchasing and installing signs in known flash flood bridge overpass locations.	Engineering Department & Public Works	High	Mid-Range	Local Funds	TBD			
1.6.6	Improve flood risk assessment by documenting high water marks post event, verification of FEMA's repetitive loss inventory and revising and updating regulatory floodplain maps.	Community Development, Engineering & Public Works Department	High	Ongoing	Local Funds	TBD			
1.7	Building and Technical Codes. Review local codes for effective damages.	eness of standards to pro	tect buildings and in	frastructure from	natural haza	rd			
1.7.1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	Community Development Department	High	Short-Range	Local Funds	TBD			
1.7.2	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of "hurricane clips."	Community Development Department	High	Short-Range	Local Funds	TBD			

	City of Foley Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.7.3	Relocate existing utility lines underground, where feasible and cost effective, and require, through local subdivision and land development regulations, the placement of all new utility lines underground for large residential subdivisions and commercial developments.	Engineering Department	Medium	Mid-Range	Local Funds	TBD			
1.7.4	Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters.	Fire Department	High	Short-Range	Local Funds	TBD			
1.7.5	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	Community Development & Environmental Department	High	Short-Range	Local Funds	TBD			
1.7.6	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	Building Official	High	Ongoing	Local Funds	TBD			
1.8	Landscape Ordinances. Establish minimum standards for plan aesthetics.	ting areas for trees and ve	egetation to reduce	stormwater runoff	and improve	e urban			
1.8.1	Review and revise as necessary, landscaping standards for parking lots that reduce the size of impervious surfaces and encourage natural infiltration of rainwater.	Engineering & Environmental Department	High	Short-Range	Local Funds	TBD			
1.8.2	Establish ordinances to help mitigate fire hazards related to fuel buildup due to recent hurricanes, by raising tree canopies close to homes, thinning forests near urban areas, and removing trees that are too close to homes.	Environmental & Horticulture Department	Medium	Short-Range	Local Funds	TBD			

	City of Foley Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.8.3	Establish ordinance for the planting of new urban forests or replacement of hurricane damaged urban forests using hurricane resistant tree species to mitigate wind and erosion problems, help beautify and promote healthy urban environments and reduce heating, cooling and storm runoff costs.	Horticulture Department	High	Short-Range	Local Funds	TBD			
1.9	Storm Water Management. Manage the impacts of land develop	oment on storm water run	off rates and to natu	ral drainage syste	ms.				
1.9.1	Promote the adoption/enforcement of storm water management regulations that maintain pre-development runoff rates.	Engineering & Environmental Department	High	Ongoing	Local Funds	TBD			
1.9.2	Develop, adopt and implement subdivision regulations that require proper storm water infrastructure design and construction.	City Council Engineering & Environmental Department	High	Ongoing	Local Funds	TBD			
1.9.3	Establish urban forestry program to help mitigate storm water runoff common in areas with large impervious surfaces.	Environmental, Engineering & Horticulture Department	High	Short-Range	Local Funds	TBD			
1.10	<u>Dam Safety Management.</u> Establish a comprehensive dam safe	ety program.							
1.10.1	Support legislation to establish a State dam safety program.	Mayor and Council	Medium	Mid-Range	Local Funds	TBD			
1.11	Community Rating System Program (CRS). Increase participation	ion of NFIP member comn	nunities in the CRS I	Program.					
1.11.1	Apply for/maintain membership in the CRS Program; continue to upgrade rating.	Community Development Department	Medium	Long-Range	Local Funds	TBD			

	City of Foley	Community Action Progra	am						
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.12	Critical Facilities Assessments. Perform assessments of critical facilities (hospitals, schools, fire and police stations, emergency operation centers, special needs housing, and others) to address building and site vulnerabilities to hazards, identify damage control and retrofit measures to reduce vulnerability to damage and disruption of operations during severe weather and disaster events.								
1.12.1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	Community Development & Fire Department	Medium	Long-Range	FEMA HMA Grant	TBD			
1.12.2	Conduct wildfire vulnerability assessments, including the vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive inventory to identify high and moderate wildfire risk areas.	Fire Department/ Environmental Services	High	Short-Range	FEMA HMA Grant	TBD			
2	Goal for Property Protection. Protect structures and their occup	pants and contents from t	he damaging effects	of natural hazard	s.				
2.1	Building Relocation. Relocate buildings out of hazardous floor	l areas to safeguard again	st damages and est	ablish permanent	open space.				
2.1.1	Pursue FEMA grant funds to relocate buildings out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	Community Development Department	Medium	Long-Range	FEMA HMA Funds	TBD			
2.2	Acquisition. Acquire flood prone buildings and properties and	establish permanent oper	n space.						
2.2.1	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Community Development Department	Medium	Long-Range	FEMA HMA Funds	TBD			
2.2.2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Community Development Department	Medium	Long-Range	FEMA HMA Funds	TBD			

	City of Foley	Community Action Progra	am			
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost
2.3	Building Elevation. Elevate buildings in hazardous flood areas	to safeguard against dam	ages.			
2.3.1	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Community Development Department	Medium	Long-Range	FEMA HMA Funds	TBD
2.3.2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	Community Development Department	Medium	Long-Range	FEMA HMA Funds	TBD
2.4	Flood Proofing. Encourage flood proofing of buildings in hazar	dous flood areas to safeg	uard against dama	iges.		
2.4.1	Pursue FEMA grant funds for flood proofing pre-FIRM non-residential buildings, where feasible.	Community Development Department	Medium	Long-Range	FEMA HMA Funds	TBD
2.5	Flood Control Measures. Small flood control measures built to	reduce/prevent flood dam	nage			
2.5.1	Examine use of minor structural projects (small berm or floodwalls) in areas that cannot be mitigated through non-structural mitigation techniques.	Community Development & Engineering Department	Medium	Long-Range	FEMA HMA Funds	TBD
2.6	<u>Building Retrofits</u> . Retrofit vulnerable buildings to protect again severe storms, and earthquakes.	nst natural hazards damaç	ges, including flood	ding, high winds, to	rnadoes, hu	rricanes,
2.6.1	Pursue FEMA grant funds to retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	Community Development Department	High	Short-Range	FEMA HMA Funds	TBD
2.6.2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	Community Development Department	High	Short-Range	Local Funds	TBD

	City of Foley	Community Action Progra	am			
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost
2.7	<u>Hazard Insurance Awareness.</u> Increase public awareness of flosinkhole, and other damages typically not covered by standard	-	•	required for earthq	uake, lands	lide,
2.7.1	Promote the purchase of insurance coverage by property owners and renters for flood damages in high-risk areas.	Community Development & Marketing Department	High	Short-Range	Local Funds	TBD
2.7.2	Promote the purchase of crop insurance to cover potential losses due to drought.	Community Development & Marketing Department	High	Long-Range	Local Funds	TBD
2.8	<u>Critical Facilities Protection</u> . Protect critical facilities from pote relocations of existing facilities located in high-risk zones or co				_	trofits or
2.8.1	Install lightning and/or surge protection on existing critical facilities.	Maintenance Department	High	Short-Range	Local Funds	TBD
2.8.2	Conduct ongoing tree trimming programs along power lines					
2.9	Back Up Power. Ensure uninterrupted power supply to critical f	I facilities during emergenc	y events.			
2.9.1	Pursue grant funding for the installation of back-up power generators for critical facilities.	City Council	High	Short-Range	FEMA HMA Grant	TBD
3	Goal for Public Education and Outreach. Educate and inform the life and property.	he public about the risks o	of hazards and the to	echniques availabl	e to reduce	threats to
3.1	Map Information. Increase public access to Flood Insurance Ra	ate Map (FIRM) information	n.			

	City of Foley Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
3.1.1	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	Community Development & Marketing Department	High	Ongoing	Local Funds	TBD			
3.2	Outreach Projects. Conduct regular public events to inform the	public of hazards and mi	itigation measures.						
3.2.1	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Community Development Department	High	Short-Range	Local Funds	TBD			
3.2.2	Distribute materials, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	Fire Department	High	Short-Range	Local Funds	TBD			
3.2.3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	Chamber of Commerce	Low	Long-Range	Existing	TBD			
3.2.4	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Community Development Department	High	Short-Range	Local Funds	TBD			
3.3	Real Estate Disclosure. Encourage real estate agents to disclose	flood plain location for prope	erty listings.						
3.3.2	Consider the enactment of a local ordinance or state law to require floodplain disclosure when a property is for sale.	Floodplain Administrator, Mayor, Local Government, State Government	High	Long-Range	Local Funds	TBD			

	City of Foley	Community Action Progra	ım				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost	
3.4	Library. Use local library resources to educate the public on ha	azard risks and mitigation	alternatives.				
3.4.1	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.	City Library	High	Short-Range	Local Funds	TBD	
3.5	Education Programs. Use schools and other community education resources to conduct programs on topics related to hazard risks and mitigation measures.						
3.6	Community Hazard Mitigation Plan Distribution. Distribute the hazard mitigation plan to elected officials, interested agencies and organizations, businesses, and residents, using all available means of publication and distribution.						
3.6.1	Distribute the 2020 plan to local officials, stakeholders, and interested individuals through internet download.	Baldwin County EMA	High	Short-Range	Existing	TBD	
3.6.2	Distribute the 2020 plan summary to the public through local jurisdictions, via the internet and other media.	Baldwin County EMA	High	Short-Range	Existing	TBD	
3.7	Technical Assistance. Make qualified local government staff av	vailable to advise property	owners on various	hazard risks and r	mitigation al	ternatives.	
3.7.1	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Community Development Department	High	Short-Range	Local Funds	TBD	
3.8	Mass Media Relations. Utilize all available mass media, such as on-line social networking to increase public awareness and dis	· · · · · · · · · · · · · · · · · · ·		~	s, video shar	ring, and	
3.8.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Marketing Department	High	Short-Range	TBD	TBD	

	City of Foley Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
3.9	Weather Radios. Improve public access to weather alerts.		<u> </u>					
3.9.1	Promote the use of weather radios in households and businesses.	Public Safety	High	Short-Range	Local Funds	TBD		
3.9.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	City Council	Medium	Mid-Range	Existing	TBD		
3.10	<u>Disaster Warning.</u> Improve public warning systems.							
3.10.1	Establish an ALERT flood warning system at strategic locations in the county, including at a minimum, sensors that provide real-time access to stream flow, stream stage, and precipitation data.	Public Safety	Medium	Mid-Range	FEMA HMA Grant	TBD		
3.10.2	Ensure that the ALERT warning system links data into GIS with the ability to use measured and forecasted rainfall to predict potential flood levels and create real-time maps of flooded areas.	Public Safety	Medium	Mid-Range	FEMA HMA Grant	TBD		
3.10.3	Evaluate the feasibility of a shared tri-county ALERT system covering Baldwin, Escambia, and Mobile counties.	Public Safety	Medium	Mid-Range	FEMA HMA Grant	TBD		
3.10.5	Upgrade critical communications infrastructure.	Public Safety	High	Short-Range	FEMA HMA Grant	TBD		
4	Goal for Natural Resources Protection. Preserve and restore the development that balances the constraints of nature with the so				stainable co	ommunity		
4.1	Open Space Easements and Acquisitions. Acquire easements a plains, and wetlands to assure permanent protection of these n		of environmentall	y beneficial lands, s	uch as hillsi	des, flood		

	City of Foley Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
4.1.1	Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.	City Council	Medium	Mid-Range	FEMA HMA Grant	TBD			
4.2	River/Stream Corridor Restoration and Protection. Restore and	protect river and stream	corridors within are	as.					
4.2.1	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Environmental Department	High	Ongoing	Local Funds	TBD			
4.2.2	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	Environmental Department	High	Ongoing	Local Funds	TBD			
4.3	Urban Forestry Programs. Maintain a healthy forest that can he within urban areas.	elp mitigate the damaging	impacts of flooding	, erosion, landslid	es, and wild	fires			
4.3.1	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).	Environmental Department	High	Short-Range	Local Funds	TBD			
4.3.2	Increase overall green spaces in cities by planting hurricane resistant trees with site and location taken into consideration.	Horticulture-Department	High	Short-Range	Local Funds	TBD			
4.3.3	Develop and urban forestry management plans to ensure a progressive urban forestry program aimed at increasing forestry canopy, increased safety and planting hurricane resistant tree species.	Horticulture Department	High	Short-Range	Local Funds	TBD			
4.4	Beach and Dune Protection/Renourishment. Protect beaches a programs.	ind dunes from coastal an	d man-made erosio	n and implement re	enourishme	nt			
4.4.1	Restore and protect wetlands to enhance storm water drainage.	Environmental Department	Medium	Mid-Range	TBD	TBD			

	City of Foley	Community Action Progra	ım			
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost
4.5	Water Resources Conservation Programs. Protect water qualit uninterrupted potable water supplies.	y through water conserva	tion programs to mi	tigate the effects of	of droughts a	and assure
4.5.1	Enforce water use restrictions during periods of drought to conserve existing water supplies.	Local Government	Medium	Ongoing	Local	TBD
5	Goal for Structural Projects. Apply engineered structural modification damaging impacts of hazards, where feasible, cost effective, are			ructure to reduce	the potentia	lly
5.1	Drainage System Maintenance. Improve maintenance program	s for streams and drainag	e ways.			
5.1.1	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Engineering & Public Works Department	Medium	Long-Range	Existing	TBD
5.2	Reservoirs and Drainage System Improvements. Control flood effective and feasible, such as levees/floodwalls, diversions, ch			•		ost
5.2.1	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Engineering Department	High	Short-Range	FEMA HMA Grant	TBD
5.2.2	Improve and retrofit water supply systems to save water during drought events and to eliminate breaks and leaks.	Riviera Utilities	Medium	Long-Range	Local Funds	TBD
5.3	Community Shelters and Safe Rooms. Provide shelters from na	tural hazards for the safe	ty of community res	idents.		
5.3.2	Pursue grant funds to establish a program for subsidizing safe room and storm shelter construction in appropriate locations and facilities.	City Council	High	Short-Range	FEMA HMA Grant	TBD
	<u>I</u>	l	l .	1	1	L

	City of Foley Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
5.3.3	Encourage the construction of safe rooms in new and existing homes and buildings.	Community Development Department	High	Short-Range	FEMA HMA Grant	TBD			

A.7 Gulf Shores Community Action Program

	City of Gulf Shores Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1	Goal for Prevention. Manage the development of land and build	dings to minimize risks of	loss due to natural	hazards.					
1.1	Comprehensive Plans and Smart Growth. Establish an active of sustainable community development.	comprehensive planning p	program that is cons	istent with Smart	Growth prin	ciples of			
1.1.1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.	Planning and Zoning Department	High	Ongoing	Local Funds	TBD			
1.1.2	Integrate the findings and recommendations of this plan into comprehensive plan amendments for jurisdictions with active comprehensive planning programs.	Planning and Zoning Department	Medium	Mid-Range	Local Funds	TBD			
1.1.3	Prepare a five-year capital improvements plan (CIP) to include capital projects that implements the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	Mayor and Council	Medium	Ongoing	Local Funds	TBD			
1.2	Geographic Information Systems (GIS). Maintain a comprehensiacilities inventories.	sive database of hazards	locations, socio eco	nomic data, infras	tructure, an	d critical			

	City of Gulf Shores Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.2.2	Integrate FEMA HAZUS-MH applications for hazard loss estimations within local GIS programs. Maintain up-to-date data within GIS to apply the full loss estimation capabilities of HAZUS.	Engineering Department	Medium	Mid-Range	Local Funds	TBD			
1.2.3	Mark depths of flooding and storm surge immediately after each event. Enter and maintain these historical records in GIS.	Engineering Department	High	Ongoing	Local Funds	TBD			
1.3	1.3 Planning Studies. Conduct special studies, as needed, to identify hazard risks and mitigation measures.								
1.3.1	Carry out detailed planning and engineering studies for sub- basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Planning and Zoning Department	Medium	Mid-Range	FEMA HMA Grant	TBD			
1.3.2	Identify existing culturally or socially significant structures and critical facilities within Baldwin County that have the most potential for losses from natural hazard events and identify needed structural upgrades.	Planning and Zoning Department	Medium	Mid-Range	Local Funds	TBD			
1.3.3	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	Engineering Department	High	Ongoing	Local Funds	TBD			
1.3.4	Inventory and map existing fire hydrants throughout the county, and identify areas in need of new fire hydrants.	Fire Department	High	Ongoing	Local Fund	TBD			
1.3.5	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	Engineering Department	Medium	Mid- Range/Ongoing	FEMA HMA Grant	TBD			
1.4	Zoning. Establish effective zoning controls, where applicable, development.	to vulnerable land areas t	i o discourage envire	onmentally incompa	tible land u	se and			

	City of Gulf Shores Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.4.1	Consider lot size requirements on flood prone areas designated on Flood Insurance Rate Maps.	Planning and Zoning Department	Medium	Mid-Range	Local Funds	TBD			
1.4.2	Evaluate additional land use restrictions within designated flood zones, such as prohibition of storage of buoyant materials, storage of hazardous materials, restrictive development of flood ways, among others.	Planning and Zoning Department	Medium	Mid-Range	Local Funds	TBD			
1.4.3	Require delineation of flood plain fringe, floodways, and wetlands on all plans submitted with a permit for development within a flood plain.	Planning and Zoning Department	Medium	Mid-Range	Local Funds	TBD			
1.4.4	Enact local ordinance that requires community storm shelters within sizeable mobile home parks and subdivisions.	Planning and Zoning Department	Medium	Mid-Range	Local Funds	TBD			
1.5	Open Space Preservation. Minimize disturbances of natural lar natural features such as open space for parks, conservation are			through regulation	ns that main	tain critical			
1.5.1	Examine regulatory options and feasibility of requiring open space areas for recreation, landscaping, and drainage control.	Planning and Zoning Department	Medium	Long-Range	Local Funds	TBD			
1.6	Flood Plain Management Regulations. Effectively administer a	nd enforce local floodplai	n management regu	lations.					
1.6.1	Train local flood plain managers through programs offered by the State Flood Plain Coordinator or FEMA's training center in Emmitsburg, Maryland.	Mayor and Council	High	Short-Range	Local Funds	TBD			
1.6.2	Maintain a library of technical assistance and guidance materials to support the local floodplain manager.	Building Department	High	Ongoing	Local Funds	TBD			

	City of Gulf Shores Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.6.3	Promote the adoption of uniform flood hazard prevention ordinance among all NFIP communities. The ordinance standards should encourage flood plain management that maintains the natural and beneficial functions of flood plains by maximizing the credits that could be obtained for "Higher Regulatory Standards" under the Community Rating System (CRS) Program.	Building Department	High	Ongoing	Local Funds	TBD			
1.6.4	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association Flood Plain Managers and encourage active participation.	Building Department	High	Ongoing	Local Funds	TBD			
1.6.5	Participate in the "Turn Around, Don't Drown" program by purchasing and installing signs in known flash flood overpass locations.	Public Works Department	High	Short-Range	Local Funds	TBD			
1.7	Building and Technical Codes. Review local codes for effective damages.	eness of standards to pro	tect buildings and in	frastructure from	natural haza	ird			
1.7.1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	Building Department	High	Ongoing	Local Funds	TBD			
1.7.2	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of "hurricane clips."	Building Department	High	Ongoing	Local Funds	TBD			

	City of Gulf Shores Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.7.3	Relocate existing utility lines underground, where feasible and cost effective, and require, through local subdivision and land development regulations, the placement of all new utility lines underground for large residential subdivisions and commercial developments.	Engineering Department	High	Ongoing	Local Funds	TBD			
1.7.4	Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters.	Building Department	High	Ongoing	Local Funds	TBD			
1.7.5	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	Building Department	High	Ongoing	Local Funds	TBD			
1.7.6	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	Planning and Zoning Department	High	Ongoing	FEMA HMA Grant	TBD			
1.8	Landscape Ordinances. Establish minimum standards for plan aesthetics.	ting areas for trees and v	egetation to reduce	storm water runof	f and improv	ve urban			
1.8.1	Review and revise as necessary, landscaping standards for parking lots that reduce the size of impervious surfaces and encourage natural infiltration of rainwater.	Planning and Zoning Department	Medium	Long-Range	Local Funds	TBD			
1.8.2	Establish ordinances to help mitigate fire hazards related to fuel buildup due to recent hurricanes, by raising tree canopies close to homes, thinning forests near urban areas, and removing trees that are too close to homes.	Fire Department	Medium	Long-Range	Local Funds	TBD			

	City of Gulf Shores Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.8.3	Establish ordinance for the planting of new urban forests or replacement of hurricane damaged urban forests using hurricane resistant tree species to mitigate wind and erosion problems, help beautify and promote healthy urban environments and reduce heating, cooling and storm runoff costs.	Planning and Zoning Department	Medium	Long-Range	Local Funds	TBD			
1.9	Storm Water Management. Manage the impacts of land development on storm water runoff rates and to natural drainage systems.								
1.9.1	Promote the adoption/enforcement of storm water management regulations that maintain pre-development runoff rates.	Engineering Department	High	Ongoing	Local Funds	TBD			
1.9.2	Develop, adopt and implement subdivision regulations that require proper storm water infrastructure design and construction.	Engineering Department	Medium	Ongoing	Local Funds	TBD			
1.9.3	Establish urban forestry program to help mitigate storm water runoff common in areas with large impervious surfaces.	Planning and Zoning Department	Medium	Ongoing	Local Funds	TBD			
1.10	Community Rating System Program (CRS). Increase participat	ion of NFIP member comm	nunities in the CRS	Program.					
1.10.1	Apply for/maintain membership in the CRS Program; continue to upgrade rating.	Building Department	High	Long-Range	Local Funds	TBD			
1.11	Critical Facilities Assessments. Perform assessments of critical facilities (hospitals, schools, fire and police stations, emergency operation centers, special needs housing, and others) to address building and site vulnerabilities to hazards, identify damage control and retrofit measures to reduce vulnerability to damage and disruption of operations during severe weather and disaster events.								
1.11.1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	Engineering Department	High	Ongoing	FEMA HMA Grant	TBD			

	City of Gulf Shores Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years		Estimated Cost			
1.12	Critical Facilities Assessments. Perform assessments of critical facilities (hospitals, schools, fire and police stations, emergency operation centers, special needs housing, and others) to address building and site vulnerabilities to hazards, identify damage control and retrofit measures to reduce vulnerability to damage and disruption of operations during severe weather and disaster events.								
1.12.1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	Engineering Department	High	Ongoing	FEMA HMA Grant	TBD			
1.12.2	Conduct wildfire vulnerability assessments, including the vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive inventory to identify high and moderate wildfire risk areas.	Fire Department	Medium	Long-Range	Local Funds	TBD			
2	Goal for Property Protection. Protect structures and their occu	pants and contents from t	he damaging effects	of natural hazard	s.				
2.1	Building Relocation. Relocate buildings out of hazardous floor	d areas to safeguard agair	nst damages and est	ablish permanent	open space				
2.1.1	Pursue FEMA grant funds to relocate buildings and infrastructure out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	Floodplain Manager	High	Ongoing	FEMA HMA Grant	TBD			
2.2	Acquisition. Acquire flood prone buildings and properties and estal	olish permanent open space	e.						
2.2.1	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Floodplain Manager	High	Ongoing	Local Funds	TBD			

	City of Gulf Shores Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
2.2.2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD			
2.3	2.3 <u>Building Elevation</u> . Elevate buildings in hazardous flood areas to safeguard against damages.								
2.3.1	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Floodplain Manager	High	Ongoing	FEMA HMA Funds	TBD			
2.3.2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	Floodplain Manager	Medium	Ongoing	FEMA Funds	TBD			
2.4	Flood Proofing. Encourage flood proofing of buildings in haza	। rdous flood areas to safeç	guard against damaç	ges.					
2.4.1	Pursue FEMA grant funds for flood proofing pre-FIRM non-residential buildings, where feasible.	Floodplain Manager	Medium	Ongoing	FEMA HMA Funds	TBD			
2.5	Building Retrofits. Retrofit vulnerable buildings to protect again severe storms, and earthquakes.	nst natural hazards damaç	ges, including floodi	ng, high winds, to	rnadoes, hu	rricanes,			
2.5.1	Pursue FEMA grant funds to retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	Floodplain Manager	Medium	Ongoing	FEMA HMA Grant	TBD			

	City of Gulf Shores Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
2.5.2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	Building Department	High	Ongoing	Local Funds	TBD			
2.6	Hazard Insurance Awareness. Increase public awareness of flood insurance and special riders that may be required for earthquake, landslide, sinkhole, and other damages typically not covered by standard property protection policies.								
2.6.1	Promote the purchase of insurance coverage by property owners and renters for flood damages in high-risk areas.	Floodplain Manager	High	Ongoing	Local Funds	TBD			
2.7	2.7 <u>Critical Facilities Protection</u> . Protect critical facilities from potential damages and occupants from harm in the event of hazards through retrofits or relocations of existing facilities located in high-risk zones or construction of new facilities for maximum protection from all hazards.								
2.7.1	Install lightning and/or surge protection on existing critical facilities.	Building Department	High	Ongoing	Local Funds	TBD			
2.7.2	Conduct ongoing tree trimming programs along power lines.	Engineering Department	High	Ongoing	Local Funds	TBD			
2.8	Back Up Power. Ensure uninterrupted power supply to critical	facilities during emergend	ey events.						
2.8.1	Pursue grant funding for the installation of backup power generators for critical facilities.	Engineering Department	High	Ongoing	FEMA HMA Funds	TBD			
3	Goal for Public Education and Outreach. Educate and inform to life and property.			echniques availab	le to reduce	threats to			
3.1	Map Information. Increase public access to Flood Insurance Re	ate Map (FIRM) informatio	n.						
3.1.1	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	Floodplain Manager	High	Ongoing	Local Funds	TBD			

	City of Gulf Shor	res Community Action Pro	ogram			
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost
3.2	Outreach Projects. Conduct regular public events to inform the	e public of hazards and m	itigation measures.			
3.2.1	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Building Department	High	Ongoing	Local Funds	TBD
3.2.2	Distribute materials, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	Building Department	High	Ongoing	Local Funds	TBD
3.2.3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	Building Department	Medium	Ongoing	Local Funds	TBD
3.2.4	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Building Department	High	Ongoing	Local Funds	TBD
3.3	Real Estate Disclosure. Encourage real estate agents to disclo	se flood plain location for	property listings.			
3.4	Library. Use local library resources to educate the public on ha	azard risks and mitigation	alternatives.			
3.4.1	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.	City Library	High	Ongoing	Local Funds	TBD
3.5	Education Programs. Use schools and other community educa measures.	ation resources to conduc	t programs on topic	s related to hazard	l risks and r	nitigation

	City of Gulf Shor	res Community Action Pro	ogram			
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost
3.5.1	Distribute hazard mitigation brochures to students through area schools.	Fire Department	High	Ongoing	Local Funds	TBD
3.6	Community Hazard Mitigation Plan Distribution. Distribute the businesses, and residents, using all available means of publications.	•	elected officials, int	erested agencies a	and organiza	ations,
3.6.1	Distribute the 2020 plan to local officials, stakeholders, and interested individuals through internet download.	Baldwin County EMA	High	Short-Range	Existing	TBD
3.7	Technical Assistance. Make qualified local government staff as	vailable to advise property	owners on various	hazard risks and	mitigation al	ternatives.
3.7.1	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Floodplain Manager	High	Ongoing	Local Funds	TBD
3.8	Mass Media Relations. Utilize all available mass media, such a on-line social networking to increase public awareness and dis				s, video sha	ring, and
3.8.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Mayor and Council	Medium	Ongoing	Local Funds	TBD
3.9	Weather Radios. Improve public access to weather alerts					
3.9.1	Promote the use of weather radios in households and businesses.	Mayor and Council	High	Short-Range	Existing	TBD
3.9.2	Require the installation of weather radios in all public buildings and places of public assembly.	Mayor and Council	High	Short-Range	Existing	TBD
3.9.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	Mayor and Council	High	Short-Range	FEMA HMA Funds	TBD

	City of Gulf Shor	res Community Action Pro	ogram			
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost
3.10	<u>Disaster Warning</u> . Improve public warning systems.					
3.10.1	Establish an ALERT flood warning system at strategic locations in the county, including at a minimum, sensors that provide real-time access to stream flow, stream stage, and precipitation data.	Local Government	High	Mid-Range	FEMA HMA Grant	TBD
3.10.2	Ensure that the ALERT warning system links data into GIS with the ability to use measured and forecasted rainfall to predict potential flood levels and create real-time maps of flooded areas.	Local Government	High	Mid-Range	FEMA HMA Grant	TBD
3.10.5	Upgrade critical communications infrastructure.	Local Government	High	Ongoing	TBD	TBD
4	Goal for Natural Resources Protection. Preserve and restore the development that balances the constraints of nature with the source Space Easements and Acquisitions. Acquire easements and Acquisitions.	ocial and economic dema	nds of the commun	ity.		
4.1	plains, and wetlands to assure permanent protection of these n		or on an annual same	bononoiai iarrao, o		uoo, 1100u
4.1.1	Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.	Planning and Zoning Department	Medium	Mid-Range	FEMA HMA Grant	TBD
4.2	River/Stream Corridor Restoration and Protection. Restore and	protect river and stream	corridors within are	eas.		
4.2.1	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Building Department	Medium	Ongoing	Local Funds	TBD
4.2.2	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	Planning and Zoning Department	High	Ongoing	Local Funds	TBD
4.3	<u>Urban Forestry Programs.</u> Maintain a healthy forest that can he within urban areas.	elp mitigate the damaging	impacts of flooding	յ, erosion, landslide	es, and wild	fires

	City of Gulf Shor	res Community Action Pro	ogram			
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost
4.3.1	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).	Planning Department	Medium	Ongoing	Local Funds	TBD
4.3.2	Increase overall green spaces in cities by planting hurricane resistant trees with site and location taken into consideration.	Planning Department	Medium	Ongoing	TBD	TBD
4.3.3	Develop an urban forestry management plan to ensure a progressive urban forestry program aimed at increasing forestry canopy, increased safety and planting hurricane resistant species.	Planning Department	Medium	Ongoing	TBD	TBD
4.4	Beach and Dune Protection/Renourishment. Protect beaches a programs.	ind dunes from coastal an	nd man-made erosio	n and implement r	enourishme	nt
4.4.1	Restore and protect wetlands to enhance storm water drainage.	Engineering Department	High	Ongoing	Local Funds	TBD
4.4.2	Develop a coastal renourishment program.	Engineering Department	High	Ongoing	Local Funds	TBD
4.5	<u>Water Resources Conservation Programs.</u> Protect water qualit uninterrupted potable water supplies.	y through water conserva	ition programs to m	itigate the effects o	of droughts	and assure
4.5.1	Enforce water use restrictions during periods of drought to conserve existing water supplies.	Mayor/City Council	Medium	Long Range	Local Funds	TBD
5	Goal for Structural Projects. Apply engineered structural modi damaging impacts of hazards, where feasible, cost effective, ar	nd environmentally suitab	le.	tructure to reduce	the potentia	ally
5.1	<u>Drainage System Maintenance.</u> Improve maintenance program	s for streams and drainag	je ways.			
5.1.1	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Engineering Department	High	Ongoing	Local Funds	TBD

	City of Gulf Shor	res Community Action Pro	gram			
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost
5.2	Reservoirs and Drainage System Improvements. Control flood effective and feasible, such as levees/floodwalls, diversions, ch			•	rm sewers.	ost
5.2.1	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Engineering Department	High	Ongoing	FEMA HMA Grant	TBD
5.3	Community Shelters and Safe Rooms. Provide shelters from na	ntural hazards for the safe	ty of community res	idents.		
5.3.1	Ensure the inclusion of storm shelters and/or safe rooms in public buildings such as schools and multi-purpose community centers.	Planning and Zoning Department	High	Short-Range	FEMA HMA Grant	TBD
5.3.2	Pursue grand funds to establish a program for subsidizing safe room and storm shelter construction in appropriate locations and facilities.	Engineering Department	High	Short-Range	FEMA HMA Grant	TBD
5.3.3	Encourage the construction of safe rooms in new and existing homes and buildings.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD

A.8 Loxley Community Action Program

	Town of Loxley	y Community Action Prog	ıram			
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost
1	Goal for Prevention. Manage the development of land and build	dings to minimize risks of	loss due to natural	hazards.		
1.1	<u>Planning Studies</u> . Conduct special studies, as needed, to ident methodologies, and increase /maintain hazards database, socio					
1.1.1	Identify existing culturally or socially significant structures and critical facilities within Baldwin County that have the most potential for losses from natural hazard events and identify needed structural upgrades.	Planning and Zoning Department	Medium	Mid-Range	Local Funds	TBD
1.1.2	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	Planning and Zoning Department	Medium	Mid-Range	Local Funds	TBD
1.1.3	Inventory and map existing fire hydrants throughout the community, and identify areas in need of new fire hydrants.	Fire Department, Baldwin County 9-1-1	Medium	Mid-Range	Local Funds	TBD
1.1.4	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	Public Works Department	Medium	Mid- Range/Ongoing	FEMA HMA Grant	TBD
1.4	Zoning. Establish effective zoning controls, where applicable, development.	to vulnerable land areas to	o discourage envire	onmentally incompa	atible land u	se and
1.5	Open Space Preservation. Minimize disturbances of natural lar natural features such as open space for parks, conservation are			through regulation	s that main	tain critical

	Town of Loxle	y Community Action Progr	am				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost	
1	Goal for Prevention. Manage the development of land and build	dings to minimize risks of l	oss due to natur	al hazards.			
1.1	Comprehensive Plans and Smart Growth. Establish an active comprehensive planning program that is consistent with Smart Growth principles of sustainable community development.						
1.1.3	Prepare a five-year capital improvements plan (CIP) to include capital projects that implements the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	Planning Department	Medium	Mid-Range	Local Funds	ТВС	
1.2	Geographic Information Systems (GIS). Maintain a comprehensifacilities inventories.	sive database of hazards lo	cations, socio e	conomic data, infras	tructure, and	d critical	
1.2.3	Mark depths of flooding and storm surge immediately after each event. Enter and maintain these historical records in GIS.	Planning Department	Medium	Mid-Range	Local Funds	ТВС	
1.3	Planning Studies. Conduct special studies, as needed, to ident	ify hazard risks and mitiga	tion measures.				
1.3.1	Carry out detailed planning and engineering studies for sub- basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Planning Department	Medium	Mid-Range	FEMA HMA Grant	ТВС	
1.5		Den Space Preservation. Minimize disturbances of natural land features and increased storm water runoff through regulations that maintain critatural features such as open space for parks, conservation areas, landscaping, and drainage.					
1.5.1	Examine regulatory options and feasibility of requiring open space areas for recreation, landscaping, and drainage control.	Planning Department	Medium	Long-Range	Local Funds	ТВС	

	Town of Loxle	y Community Action Prog	ram			
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost
1.6.4	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association Flood Plain Managers and encourage active participation.	Floodplain Manager	High	Short-Range	Local Funds	TBD
1.6.5	Participate in the "Turn Around, Don't Drown" program by purchasing and installing signs in known flash flood overpass locations.	Floodplain Manager/Emergency Management Coordinator	High	Short-Range	Local Funds	TBD
1.7	Building and Technical Codes. Review local codes for effective damages.	eness of standards to prot	ect buildings and	infrastructure from I	natural haza	rd
1.7.3	Relocate existing utility lines underground, where feasible and cost effective, and require, through local subdivision and land development regulations, the placement of all new utility lines underground for large residential subdivisions and commercial developments.	Planning Department	High	Ongoing	Local Funds	TBD
1.7.6	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	Planning Department	High	Ongoing	FEMA HMA Grant	TBD
1.8	Landscape Ordinances. Establish minimum standards for plan aesthetics.	ting areas for trees and ve	getation to reduc	e storm water runoff	and improv	e urban
1.8.1	Review and revise as necessary, landscaping standards for parking lots that reduce the size of impervious surfaces and encourage natural infiltration of rainwater.	Planning Department	Medium	Long-Range	Local Funds	TBD

	Town of Loxle	ey Community Action Prog	yram			
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost
1.8.3	Establish ordinance for the planting of new urban forests or replacement of hurricane damaged urban forests using hurricane resistant tree species to mitigate wind and erosion problems, help beautify and promote healthy urban environments and reduce heating, cooling and storm runoff costs.	Floodplain Manager	Medium	Long-Range	Local Funds	TBD
1.9	Storm Water Management. Manage the impacts of land develop	pment on storm water run	off rates and to na	tural drainage syste	ms.	
1.9.3	Establish urban forestry program to help mitigate storm water runoff common in areas with large impervious surfaces.	Planning Department	Medium	Ongoing	Existing	TBD
1.10	Community Rating System Program (CRS). Increase participat	ion of NFIP member com	nunities in the CRS	S Program.		
1.12	<u>Critical Facilities Assessments.</u> Perform assessments of critical special needs housing, and others) to address building and site vulnerability to damage and disruption of operations during second	e vulnerabilities to hazard	s, identify damage	ce stations, emergen control and retrofit	cy operatior measures to	reduce
1.12.1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	Building Official	Medium	Ongoing	Local	TBD
2	Goal for Property Protection. Protect structures and their occup	pants and contents from t	he damaging effec	ts of natural hazards		
2.1	Building Relocation. Relocate buildings out of hazardous flood	l areas to safeguard agair	st damages and e	stablish permanent o	pen space.	
2.2	Acquisition. Acquire flood prone buildings and properties and	establish permanent open	space.			
2.2.1	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD

	Town of Loxie	y Community Action Prog	gram			
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost
2.2.2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD
2.3	Building Elevation. Elevate buildings in hazardous flood areas	to safeguard against dam	ages.			
2.3.1	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD
2.3.2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD
2.4	Flood Proofing. Encourage flood proofing of buildings in hazar	rdous flood areas to safeg	juard against dama	ages.		
2.4.1	Pursue FEMA grant funds for flood proofing pre-FIRM non-residential buildings, where feasible.	Floodplain Manager	Medium	Ongoing	FEMA HMA Funds	TBD
2.5	<u>Building Retrofits</u> . Retrofit vulnerable buildings to protect again severe storms, and earthquakes.	nst natural hazards damaç	ges, including flood	ding, high winds, tor	nadoes, hur	ricanes,
2.5.1	Pursue FEMA grant funds to retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD

	Town of Loxle	y Community Action Prog	ram			
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost
2.5.2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD
2.6	<u>Hazard Insurance Awareness.</u> Increase public awareness of flo sinkhole, and other damages typically not covered by standard			e required for earthqu	uake, landsl	ide,
2.6.1	Promote the purchase of insurance coverage by property owners and renters for flood damages in high-risk areas.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD
2.7	<u>Critical Facilities Protection</u> . Protect critical facilities from pote relocations of existing facilities located in high-risk zones or co					trofits or
2.7.1	Install lightning and/or surge protection on existing critical facilities.	Building Official	High	Ongoing	Local Funds	TBD
2.7.2	Conduct ongoing tree trimming programs along power lines.	Utilities/Public Works	Medium	Ongoing	Local Funds	TBD
2.8	Back Up Power. Ensure uninterrupted power supply to critical f	acilities during emergency	y events.			
2.8.1	Pursue grant funding for the installation of back-up power generators for critical facilities.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD
3	Goal for Public Education and Outreach. Educate and inform the life and property.	ne public about the risks o	f hazards and the	techniques available	e to reduce	threats to
3.1	Outreach Projects. Conduct regular public events to inform the	public of hazards and mi	tigation measures			
3.1.1	Publicize the availability of FIRM information to real estate agencies, builders, developers, and homeowners.	Floodplain Administrator	Medium	On-going	TBD	TBD

	Town of Loxle	y Community Action Prog	ram			
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost
3.1.2	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Planning Department	Medium	Ongoing	Local Funds	TBD
3.2	<u>Community Hazard Mitigation Plan Distribution</u> . Distribute the businesses, and residents, using all available means of publica		elected officials, i	nterested agencies a	nd organiza	tions,
3.2.1	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Local Government	Medium	Ongoing	Local Funds	TBD
3.2.2	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	Local Government	Medium	Ongoing	Local Funds	TBD
3.2.3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	Local Government	Medium	Ongoing	Local Funds	TBD
3.2.4	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Local Government	Medium	Ongoing	Local Funds	TBD
3.3	<u>Technical Assistance</u> . Make qualified local government staff av	ailable to advise property	owners on variou	us hazard risks and m	itigation all	ternatives
	Provide technical assistance to homeowners, builders, and	Local Floodplain	High	Ongoing	Local	ТВО

	Town of Loxle	y Community Action Progr	am			
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more	Funding Source	Estimated Cost
3.3.2	Consider the enactment of a local ordinance or state law to require floodplain disclosure when a property is for sale.	Local Government	Medium	Ongoing	Local Funds	TBD
3.4	Mass Media Relations. Utilize all available mass media, such as on-line social networking to increase public awareness and dis				s, video shar	ing, and
3.4.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Mayor and Council	Medium	Ongoing	Local Funds	TBD
3.5	Weather Radios. Improve public access to weather alerts.					
3.5.1	Distribute hazard mitigation brochures to students through area schools	Local Government	Medium	Ongoing	Local Funds	TBD
3.5.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	Mayor and Council	High	Short-Range	Existing	TBD
3.6	Community Hazard Mitigation Plan Distribution. Distribute the businesses, and residents, using all available means of publications.		lected officials, i	nterested agencies a	and organiza	tions,
3.6.1	Distribute the 2020 plan to local officials, stakeholders, and interested individuals through internet download.	Baldwin County EMA	High	Short-Range	Existing	TBD
37	Technical Assistance. Make qualified local government staff a	vailable to advise property	owners on vario	us hazard risks and	mitigation al	ternatives.
37.1	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Building Department	Medium	Ongoing	Local Funds	TBD
3.8	Mass Media Relations. Utilize all available mass media, such as on-line social networking to increase public awareness and dis				s, video shar	ing, and

		Town of Loxley	y Community Action Pro	gram					
	#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
	3.8.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Local Government	Medium	Ongoing	Local Funds	TBC		
2	3.9 <u>Weather Radios.</u> Improve public access to weather alerts.								
ļ	3.9.1	Promote the use of weather radios in households and businesses.	Local Government	High	Short-Range	Existing	ТВС		
	3.9.2	Require the installation of weather radios in all public buildings and places of public assembly.	Local Government	High	Short-Range	Existing	ТВІ		
	3.9.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	Local Government	High	Short-Range	Existing	ТВІ		
	3.10	<u>Disaster Warning</u> . Improve public warning systems.							
	3.10.1	Establish an ALERT flood warning system at strategic locations in the county, including at a minimum, sensors that provide real-time access to stream flow, stream stage, and precipitation data.	Local Government	High	Mid-Range	FEMA HMA Grant	ТВ		
	3.10.2	Ensure that the ALERT warning system links data into GIS with the ability to use measured and forecasted rainfall to predict potential flood levels and create real-time maps of flooded areas.	Local Government	High	Mid-Range	FEMA HMA Grant	ТВІ		
	3.10.4	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	Local Government	High	Mid-Range	FEMA HMA Grant	ТВІ		
ŀ	3.10.5	Upgrade critical communications infrastructure.	Local Government	High	Long-Range	TBD	ТВІ		

	Town of Lox	ley Community Action Pro	ogram						
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more	than five years Funding Source	Estimated Cost			
4	Goal for Natural Resources Protection. Preserve and restore t development that balances the constraints of nature with the s				sustainable	community			
4.1	Open Space Easements and Acquisitions. Acquire easements a and wetlands to assure permanent protection of these natural resou		environmentally ben	eficial lands, such a	as hillsides, flo	ood plains,			
4.1.1	Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.								
4.2	River/Stream Corridor Restoration and Protection. Restore and protect river and stream corridors within areas.								
4.2.1	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Floodplain Administrator/Building Official	Medium	Ongoing	Local Funds	TBD			
4.2.2	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	City Building Official	Medium	Long-Range	Local Funds	TBD			
4.3	<u>Urban Forestry Programs.</u> Maintain a healthy forest that can h urban areas.	elp mitigate the damaging	impacts of floodin	l g, erosion, landsli	des, and wile	d fires within			
4.3.1	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).	Local Government	Low	Long-Range	TBD	TBD			
4.3.2	Increase overall green spaces in cities by planting hurricane resistant trees with site and location taken into consideration.	Floodplain Administrator/Building Official/Planning Department	Medium	Ongoing	TBD	TBD			
4.3.3	Develop an urban forestry management plan to ensure a progressive urban forestry program aimed at increasing forestry canopy, increased safety and planting hurricane resistant tree species.	Floodplain Administrator/Building Official/Planning Department	Medium	Ongoing	Local Funds	ТВО			

	Town of Lox	ley Community Action Pro	ogram			
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more	than five years Funding Source	Estimated Cost
4.4	Beach and Dune Protection/Renourishment. Protect beaches a programs.	and dunes from coastal ar	nd man-made eros	sion and implement	renourishme	ent
4.4.1	Restore and protect wetlands to enhance stormwater drainage.	Planning Department	Medium	Long-Range	Local Funds	TBD
4.5	Water Resources Conservation Programs. Protect water qualit uninterrupted potable water supplies.	ty through water conserva	ation programs to	mitigate the effects	of droughts	and assure
4.5.1	Enforce water use restrictions during periods of drought to conserve existing water supplies.	Local Government	Medium	Long-Range	TBD	TBD
5	Goal for Structural Projects. Apply engineered structural modi damaging impacts of hazards, where feasible, cost effective, at			astructure to reduce	e the potenti	ally
5.1	<u>Drainage System Maintenance.</u> Improve maintenance program	s for streams and drainag	ge ways.			
5.1.1	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Planning Department	Medium	Long-Range	Local Funds	TBD
5.2	Reservoirs and Drainage System Improvements. Control flooding feasible, such as levees/floodwalls, diversions, channel modification				med cost effe	ective and
5.2.1	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Floodplain Administrator, Street Department, Local Government	Medium	Long-Range	TBD	TBD
5.3	Community Shelters and Safe Rooms. Provide shelters from na	atural hazards for the safe	ety of community i	residents.		
5.3.1	Ensure the inclusion of storm shelters and/or safe rooms in public buildings such as schools and multi-purpose community centers.	City Building Official	High	Short-Range	FEMA HMA Grant	TBD

	Town of Loxley Community Action Program									
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	t-Rang two ye Range- Range-	man live years Funding Source	Estimated Cost				
5.3.2	Pursue grant funds to establish a program for subsidizing safe room and storm shelter construction in appropriate locations and facilities.	City Building Official	High	Short-Range	FEMA HMA Grant	TBD				
5.3.3	Encourage the construction of safe rooms in new and existing homes and buildings.	City Building Official	High	Short-Range	FEMA HMA Grant	TBD				

.

A.9 Magnolia Springs Community Action Program

	Magnolia Springs Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1	Goal for Prevention. Manage the development of land and buil	dings to minimize risks o	f loss due to natural	hazards.					
1.1	Comprehensive Plans and Smart Growth. Establish an active of sustainable community development.	comprehensive planning p	program that is cons	sistent with Smart	Growth prin	ciples of			
1.1.3	Prepare a five-year capital improvements plan (CIP) to include capital projects that implements the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	Planning Department	Medium	Mid-Range	Local Funds	TBD			
1.2	Geographic Information Systems (GIS). Maintain a comprehen facilities inventories.	sive database of hazards	locations, socio eco	nomic data, infras	tructure, an	d critical			
1.2.3	Mark depths of flooding and storm surge immediately after each event. Enter and maintain these historical records in GIS.	Planning Department	Medium	Mid-Range	Local Funds	TBD			
1.3	Planning Studies. Conduct special studies, as needed, to iden	tify hazard risks and mitig	gation measures.						
1.3.1	Carry out detailed planning and engineering studies for sub- basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Planning Department	Medium	Mid-Range	FEMA HMA Grant	TBD			
1.5	Open Space Preservation. Minimize disturbances of natural landar natural features such as open space for parks, conservation are			through regulation	ns that main	tain critical			
1.5.1	Examine regulatory options and feasibility of requiring open space areas for recreation, landscaping, and drainage control.	Planning Department	Medium	Long-Range	Local Funds	TBD			

	Magnolia Springs Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.6	Flood Plain Management Regulations. Effectively administer a	nd enforce local floodplai	n management regu	lations.					
1.6.4	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association Flood Plain Managers and encourage active participation.	Floodplain Manager	High	Short-Range	Local Funds	TBD			
1.6.5	Participate in the "Turn Around, Don't Drown" program by purchasing and installing signs in known flash flood overpass locations.	Floodplain Manager/Emergency Management Coordinator	High	Short-Range	Local Funds	TBD			
1.7	Building and Technical Codes. Review local codes for effective damages.	eness of standards to pro	tect buildings and ir	nfrastructure from	natural haza	rd			
1.7.3	Relocate existing utility lines underground, where feasible and cost effective, and require, through local subdivision and land development regulations, the placement of all new utility lines underground for large residential subdivisions and commercial developments.	Planning Department	High	Ongoing	Local Funds	TBD			
1.7.6	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	Planning Department	High	Ongoing	FEMA HMA Grant	TBD			
1.8	Landscape Ordinances. Establish minimum standards for plar aesthetics.	nting areas for trees and v	egetation to reduce	storm water runof	f and improv	e urban			
1.8.1	Review and revise as necessary, landscaping standards for parking lots that reduce the size of impervious surfaces and encourage natural infiltration of rainwater.	Planning Department	Medium	Long-Range	Local Funds	TBD			

	Magnolia Springs Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.8.3	Establish ordinance for the planting of new urban forests or replacement of hurricane damaged urban forests using hurricane resistant tree species to mitigate wind and erosion problems, help beautify and promote healthy urban environments and reduce heating, cooling and storm runoff costs.	Floodplain Manager	Medium	Long-Range	Local Funds	TBD			
1.9	Storm Water Management. Manage the impacts of land development on storm water runoff rates and to natural drainage systems.								
1.9.3	Establish urban forestry program to help mitigate storm water runoff common in areas with large impervious surfaces.	Planning Department	Medium	Ongoing	Existing	TBD			
1.10	Community Rating System Program (CRS). Increase participat	ion of NFIP member com	munities in the CRS	Program.					
1.12	<u>Critical Facilities Assessments.</u> Perform assessments of critic special needs housing, and others) to address building and sit vulnerability to damage and disruption of operations during se	e vulnerabilities to hazard	ls, identify damage of		•				
1.12.1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	Building Official	Medium	Ongoing	Local	TBD			
2	Goal for Property Protection. Protect structures and their occu	pants and contents from	the damaging effects	of natural hazard	ls.				
2.1	Building Relocation. Relocate buildings out of hazardous floor	d areas to safeguard again	nst damages and est	ablish permanent	open space.				
2.2	Acquisition. Acquire flood prone buildings and properties and	establish permanent oper	1 space.						
2.2.1	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD			

	Magnolia Springs Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
2.2.2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD		
2.3	2.3 <u>Building Elevation</u> . Elevate buildings in hazardous flood areas to safeguard against damages.							
2.3.1	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD		
2.3.2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD		
2.4	Flood Proofing. Encourage flood proofing of buildings in haza	rdous flood areas to safe	guard against damaç	ges.				
2.4.1	Pursue FEMA grant funds for flood proofing pre-FIRM non-residential buildings, where feasible.	Floodplain Manager	Medium	Ongoing	FEMA HMA Funds	TBD		
2.5	<u>Building Retrofits</u> . Retrofit vulnerable buildings to protect again severe storms, and earthquakes.	nst natural hazards dama	ges, including floodi	ng, high winds, to	rnadoes, hu	rricanes,		
2.5.1	Pursue FEMA grant funds to retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD		

	Magnolia Springs Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
2.5.2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD			
2.6	<u>Hazard Insurance Awareness.</u> Increase public awareness of flood insurance and special riders that may be required for earthquake, landslide, sinkhole, and other damages typically not covered by standard property protection policies.								
2.6.1	Promote the purchase of insurance coverage by property owners and renters for flood damages in high-risk areas.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD			
2.7	<u>Critical Facilities Protection.</u> Protect critical facilities from pote relocations of existing facilities located in high-risk zones or co	•			_	rofits or			
2.7.1	Install lightning and/or surge protection on existing critical facilities.	Building Official	High	Ongoing	Local Funds	TBD			
2.7.2	Conduct ongoing tree trimming programs along power lines.	Utilities, Public Works	Medium	Ongoing	Local Funds	TBD			
2.8	Back Up Power. Ensure uninterrupted power supply to critical	facilities during emergend	y events.						
2.8.1	Pursue grant funding for the installation of back-up power generators for critical facilities.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD			
3	Goal for Public Education and Outreach. Educate and inform t life and property.			echniques availab	le to reduce t	hreats to			
3.1	Outreach Projects. Conduct regular public events to inform the		itigation measures.						
3.1.1	Publicize the availability of FIRM information to real estate agencies, builders, developers, and homeowners.	Floodplain Administrator	Medium	On-going	TBD	TBD			

	Magnolia Springs Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
3.1.2	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Planning Department	Medium	Ongoing	Local Funds	TBD			
3.2	3.2 Community Hazard Mitigation Plan Distribution. Distribute the hazard mitigation plan to elected officials, interested agencies and organizations, businesses, and residents, using all available means of publication and distribution.								
3.2.1	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Local Government	Medium	Ongoing	Local Funds	TBD			
3.2.2	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	Local Government	Medium	Ongoing	Local Funds	TBD			
3.2.3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	Local Government	Medium	Ongoing	Local Funds	TBD			
3.2.4	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Local Government	Medium	Ongoing	Local Funds	TBD			
3.3	Technical Assistance. Make qualified local government staff a	vailable to advise property	owners on various	hazard risks and	mitigation al	ternatives.			
3.3.1	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Local Floodplain Manger	High	Ongoing	Local Funds	TBD			

	Magnolia Springs Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
3.3.2	Consider the enactment of a local ordinance or state law to require floodplain disclosure when a property is for sale.	Local Government	Medium	Ongoing	Local Funds	TBD			
3.4	Mass Media Relations. Utilize all available mass media, such as, newspapers, radio, TV, cable access, internet blogs, podcasts, video sharing, and on-line social networking to increase public awareness and distribute public information on hazard mitigation topics.								
3.4.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Mayor and Council	Medium	Ongoing	Local Funds	TBD			
3.5	Weather Radios. Improve public access to weather alerts.								
3.5.1	Distribute hazard mitigation brochures to students through area schools	Local Government	Medium	Ongoing	Local Funds	TBD			
3.5.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	Mayor and Council	High	Short-Range	Existing	TBD			
3.6	Community Hazard Mitigation Plan Distribution. Distribute the businesses, and residents, using all available means of publications.		elected officials, int	erested agencies	and organiza	ations,			
3.6.1	Distribute the 2020 plan to local officials, stakeholders, and interested individuals through internet download.	Baldwin County EMA	High	Short-Range	Existing	TBD			
37	Technical Assistance. Make qualified local government staff a	available to advise propert	y owners on various	hazard risks and	mitigation a	Iternatives.			
37.1	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Building Department	Medium	Ongoing	Local Funds	TBD			
3.8	Mass Media Relations. Utilize all available mass media, such a on-line social networking to increase public awareness and dis				s, video sha	ring, and			

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost
3.8.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Local Government	Medium	Ongoing	Local Funds	TBD
3.9	Weather Radios. Improve public access to weather alerts.					
3.9.1	Promote the use of weather radios in households and businesses.	Local Government	High	Short-Range	Existing	TBD
3.9.2	Require the installation of weather radios in all public buildings and places of public assembly.	Local Government	High	Short-Range	Existing	TBD
3.9.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	Local Government	High	Short-Range	Existing	TBD
3.10	<u>Disaster Warning</u> . Improve public warning systems.					
3.10.1	Establish an ALERT flood warning system at strategic locations in the county, including at a minimum, sensors that provide real-time access to stream flow, stream stage, and precipitation data.	Local Government	High	Mid-Range	FEMA HMA Grant	TBD
3.10.2	Ensure that the ALERT warning system links data into GIS with the ability to use measured and forecasted rainfall to predict potential flood levels and create real-time maps of flooded areas.	Local Government	High	Mid-Range	FEMA HMA Grant	TBD
3.10.4	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	Local Government	High	Mid-Range	FEMA HMA Grant	TBD
3.10.5	Upgrade critical communications infrastructure.	Local Government	High	Long-Range	TBD	TBD

	Magnolia Springs Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more	Funding Source	Estimated Cost			
4	Goal for Natural Resources Protection. Preserve and restore to development that balances the constraints of nature with the s				ustainable o	community			
4.1	Open Space Easements and Acquisitions. Acquire easements a and wetlands to assure permanent protection of these natural resou		environmentally bene	eficial lands, such a	s hillsides, flo	ood plains,			
4.1.1	1.1 Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.								
4.2	River/Stream Corridor Restoration and Protection. Restore and	d protect river and stream	corridors within are	eas.					
4.2.1	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Floodplain Administrator/Building Official	Medium	Ongoing	Local Funds	TBD			
4.2.2	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	City Building Official	Medium	Long-Range	Local Funds	TBD			
4.3	<u>Urban Forestry Programs.</u> Maintain a healthy forest that can h urban areas.	elp mitigate the damaging	impacts of flooding	g, erosion, landsli	des, and wild	d fires within			
4.3.1	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).	Local Government	Low	Long-Range	TBD	TBD			
4.3.2	Increase overall green spaces in cities by planting hurricane resistant trees with site and location taken into consideration.	Floodplain Administrator/Building Official/Planning Department	Medium	Ongoing	TBD	TBD			
4.3.3	Develop an urban forestry management plan to ensure a progressive urban forestry program aimed at increasing forestry canopy, increased safety and planting hurricane resistant tree species.	Floodplain Administrator/Building Official/Planning Department	Medium	Ongoing	Local Funds	TBD			

	Magnolia Springs Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more		Estimated Cost			
4.4	Beach and Dune Protection/Renourishment. Protect beaches a programs.	and dunes from coastal a	nd man-made erosic	on and implement	renourishme	ent			
4.4.1	Restore and protect wetlands to enhance stormwater drainage.	Planning Department	Medium	Long-Range	Local Funds	TBD			
4.5	<u>Water Resources Conservation Programs.</u> Protect water quality through water conservation programs to mitigate the effects of droughts and assure uninterrupted potable water supplies.								
4.5.1	Enforce water use restrictions during periods of drought to conserve existing water supplies.	Local Government	Medium	Long-Range	TBD	TBD			
5	Goal for Structural Projects. Apply engineered structural modi damaging impacts of hazards, where feasible, cost effective, as	•	•	tructure to reduce	e the potenti	ally			
5.1	Drainage System Maintenance. Improve maintenance program	s for streams and drainag	ge ways.						
5.1.1	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Planning Department	Medium	Long-Range	Local Funds	TBD			
5.2	Reservoirs and Drainage System Improvements. Control floodin feasible, such as levees/floodwalls, diversions, channel modification				med cost effe	ective and			
5.2.1	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Floodplain Administrator, Street Department, Local Government	Medium	Long-Range	TBD	TBD			
5.3	Community Shelters and Safe Rooms. Provide shelters from na	atural hazards for the safe	ety of community res	sidents.					
5.3.1	Ensure the inclusion of storm shelters and/or safe rooms in public buildings such as schools and multi-purpose community centers.	City Building Official	High	Short-Range	FEMA HMA Grant	TBD			

	Magnolia Springs Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Imeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	l ging	Estimated Cost		
5.3.2	Pursue grand funds to establish a program for subsidizing safe room and storm shelter construction in appropriate locations and facilities.	City Building Official	High	Short-Range	FEMA HMA Grant	TBD		
5.3.3	Encourage the construction of safe rooms in new and existing homes and buildings.	City Building Official	High	Short-Range	FEMA HMA Grant	TBD		

A.10 Orange Beach Community Action Program

	City of Orange Be	ach Community Action Pr	rogram			
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost
1	Goal for Prevention. Manage the development of land and build	dings to minimize risks of	loss due to natural	hazards.		
1.1	Comprehensive Plans and Smart Growth. Establish an active c sustainable community development.	omprehensive planning p	rogram that is cons	istent with Smart (Growth princ	ciples of
1.1.1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.	Planning Department	Medium	Mid-Range	Existing	TBD
1.1.2	Integrate the findings and recommendations of this plan into comprehensive plan amendments for jurisdictions with active comprehensive planning programs.	Planning Department	Medium	Mid-Range	Existing	TBD
1.1.3	Prepare a five-year capital improvements plan (CIP) to include capital projects that implements the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	Planning Department	Low	Mid-Range	Existing	TBD
1.2	Geographic Information Systems (GIS). Maintain a comprehens facilities inventories.	l sive database of hazards l	l locations, socio eco	l nomic data, infras	tructure, and	d critical

	City of Orange Beach Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
1.2.1	Maintain a centralized, countywide natural hazards and risk assessment database in GIS that is accessible to local planners and emergency management personnel, including such data as, flood zones, geohazards, major drainages structures, dams/levees, hurricane surge areas, tornado tracks, disaster events and their extents, and a comprehensive inventory of critical facilities within all jurisdictions.	Baldwin County EMA	Low	Mid-Range	НМА	TBD		
1.2.2	Integrate FEMA HAZUS-MH applications for hazard loss estimations within local GIS programs. Maintain up-to-date data within GIS to apply the full loss estimation capabilities of HAZUS.	City GIS Department	Low	Long-Range	FEMA HMA Grant	TBD		
1.2.3	Mark depths of flooding and storm surge immediately after each event. Enter and maintain these historical records in GIS.	City GIS Department	Medium	Mid-Range	Existing	TBD		
1.3	<u>Planning Studies</u> . Conduct special studies, as needed, to ident	ify hazard risks and mitig	ation measures.					
1.3.1	Carry out detailed planning and engineering studies for sub- basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Building Official	Low	Long-Range	FEMA HMA Grant	TBD		
1.3.2	Identify existing culturally or socially significant structures and critical facilities within Baldwin County that have the most potential for losses from natural hazard events and identify needed structural upgrades.	Building Official	Low	Long-Range	TBD	TBD		
1.3.3	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	Building Official	Low	Long-Range	TBD	TBD		

	City of Orange Beach Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.3.5	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	City Engineer	Medium	Ongoing	FEMA HMA Grant	TBD			
1.4	Zoning. Establish effective zoning controls, where applicable, to vulnerable land areas to discourage environmentally incompatible land use and development.								
1.4.4	Enact local ordinance that requires community storm shelters within sizeable mobile home parks and subdivisions.	Building Official	Medium	Long-Range	TBD	TBD			
1.5	Open Space Preservation. Minimize disturbances of natural lar natural features such as open space for parks, conservation are			through regulation	s that maint	tain critical			
1.5.1	Examine regulatory options and feasibility of requiring open space areas for recreation, landscaping, and drainage control.	Planning Department	Medium	Ongoing	Existing	TBD			
1.6	Flood Plain Management Regulations. Effectively administer as	nd enforce local floodplair	n management regul	ations.					
1.6.1	Train local flood plain managers through programs offered by the State Flood Plain Coordinator and FEMA's training center in Emmitsburg, Maryland.	Floodplain Manager	High	Ongoing	Existing	TBD			
1.6.2	Maintain a library of technical assistance and guidance materials to support the local floodplain manager.	Floodplain Manager	Medium	Ongoing	Existing	TBD			
1.6.4	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association Flood Plain Managers and encourage active participation.	Floodplain Manager	High	Ongoing	Existing	TBD			

	City of Orange Beach Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
1.6.5	Participate in the "Turn Around Don't Drown" program by purchasing and installing signs in known flash flood bridge overpass locations.	Floodplain Manager	Medium	Short-Range	Existing	TBD		
1.6.6	Improve flood risk assessment by documenting high water marks post event, verification of FEMA's repetitive loss inventory and revising and updating regulatory floodplain maps.	Floodplain Manager	Medium	Long-Range	FEMA HMA Grant	TBD		
1.7	<u>Building and Technical Codes.</u> Review local codes for effective damages.	eness of standards to prof	tect buildings and in	frastructure from	natural haza	rd		
1.7.1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	Building Official	High	Ongoing	Existing	TBD		
1.7.3	Relocate existing utility lines underground, where feasible and cost effective, and require, through local subdivision and land development regulations, the placement of all new utility lines underground for large residential subdivisions and commercial developments.	City Engineer	Medium	Ongoing	TBD	TBD		
1.7.4	Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters.	Fire Chief	Medium	Ongoing	Existing	TBD		
1.7.5	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	Code Enforcement	Medium	Ongoing	Existing	TBD		
1.7.6	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	Building Official	High	Ongoing	TBD	TBD		

City of Orange Beach Community Action Program							
Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
Require wind load design by a registered engineer for all new residential construction.	Building Official	High	Ongoing	Existing	TBD		
1.8 Landscape Ordinances. Establish minimum standards for planting areas for trees and vegetation to reduce storm water runoff and improve urban aesthetics.							
Review and revise as necessary, landscaping standards for parking lots that reduce the size of impervious surfaces and encourage natural infiltration of rainwater.	Planning Department	Low	Mid-Range	TBD	TBD		
Establish ordinances to help mitigate fire hazards related to fuel buildup due to recent hurricanes, by raising tree canopies close to homes, thinning forests near urban areas, and removing trees that are too close to homes.	City Forester	Low	Low	TBD	TBD		
Establish ordinance for the planting of new urban forests or replacement of hurricane damaged urban forests using hurricane resistant tree species to mitigate wind and erosion problems, help beautify and promote healthy urban environments and reduce heating, cooling and storm runoff costs.	City Forester	Low	Low	TBD	TBD		
Storm Water Management. Manage the impacts of land develop	oment on storm water run	off rates and to natu	ral drainage syste	ms.			
Dam Safety Management. Establish a comprehensive dam safe	ety program.						
Support legislation to establish a State dam safety program.	Mayor and Council	Medium	Mid-Range	Local Funds	TBD		
Community Rating System Program (CRS). Increase participation	ion of NFIP member comn	nunities in the CRS I	Program.				
Maintain membership in the CRS Program; continue to upgrade rating.	Floodplain Manager	High	Ongoing	Existing	TBD		
	Require wind load design by a registered engineer for all new residential construction. Landscape Ordinances. Establish minimum standards for planaesthetics. Review and revise as necessary, landscaping standards for parking lots that reduce the size of impervious surfaces and encourage natural infiltration of rainwater. Establish ordinances to help mitigate fire hazards related to fuel buildup due to recent hurricanes, by raising tree canopies close to homes, thinning forests near urban areas, and removing trees that are too close to homes. Establish ordinance for the planting of new urban forests or replacement of hurricane damaged urban forests using hurricane resistant tree species to mitigate wind and erosion problems, help beautify and promote healthy urban environments and reduce heating, cooling and storm runoff costs. Storm Water Management. Manage the impacts of land develop Dam Safety Management. Establish a comprehensive dam safet Support legislation to establish a State dam safety program. Community Rating System Program (CRS). Increase participation. Maintain membership in the CRS Program; continue to upgrade	Require wind load design by a registered engineer for all new residential construction. Landscape Ordinances. Establish minimum standards for planting areas for trees and viaesthetics. Review and revise as necessary, landscaping standards for parking lots that reduce the size of impervious surfaces and encourage natural infiltration of rainwater. Establish ordinances to help mitigate fire hazards related to fuel buildup due to recent hurricanes, by raising tree canopies close to homes, thinning forests near urban areas, and removing trees that are too close to homes. Establish ordinance for the planting of new urban forests or replacement of hurricane damaged urban forests using hurricane resistant tree species to mitigate wind and erosion problems, help beautify and promote healthy urban environments and reduce heating, cooling and storm runoff costs. Storm Water Management. Manage the impacts of land development on storm water run Dam Safety Management. Establish a Comprehensive dam safety program. Support legislation to establish a State dam safety program. Mayor and Council Community Rating System Program (CRS), Increase participation of NFIP member community maintain membership in the CRS Program; continue to upgrade	Require wind load design by a registered engineer for all new residential construction. Landscape Ordinances. Establish minimum standards for planting areas for trees and vegetation to reduce aesthetics. Review and revise as necessary, landscaping standards for parking lots that reduce the size of impervious surfaces and encourage natural infiltration of rainwater. Establish ordinances to help mitigate fire hazards related to fuel buildup due to recent hurricanes, by raising tree canopies close to homes, thinning forests near urban areas, and removing trees that are too close to homes. Establish ordinance for the planting of new urban forests or replacement of hurricane damaged urban forests using hurricane resistant tree species to mitigate wind and erosion problems, help beautify and promote healthy urban environments and reduce heating, cooling and storm runoff costs. Storm Water Management. Manage the impacts of land development on storm water runoff rates and to natural management. Establish a State dam safety program. Support legislation to establish a State dam safety program. Mayor and Council Medium Community Rating System Program (CRS), Increase participation of NFIP member communities in the CRS Indicated in the CRS of the CRS	Require wind load design by a registered engineer for all new residential construction. Landscape Ordinances. Establish minimum standards for planting areas for trees and vegetation to reduce storm water runoff aesthetics. Review and revise as necessary, landscaping standards for parking lots that reduce the size of impervious surfaces and encourage natural infiltration of rainwater. Establish ordinances to help mitigate fire hazards related to fuel buildup due to recent hurricanes, by raising tree canopies close to homes, thinning forests near urban areas, and removing trees that are too close to homes. Establish ordinance for the planting of new urban forests or replacement of hurricane damaged urban forests using hurricane resistant tree species to mitigate wind and erosion problems, help beautify and promote healthy urban environments and reduce heating, cooling and storm runoff costs. Storm Water Management. Manage the impacts of land development on storm water runoff rates and to natural drainage systems. Support legislation to establish a State dam safety program. Mayor and Council Medium Mid-Range Community Rating System Program (CRS). Increase participation of NFIP member communities in the CRS Program.	Require wind load design by a registered engineer for all new residential construction. Require wind load design by a registered engineer for all new residential construction. Landscape Ordinances. Establish minimum standards for plantling areas for trees and vegetation to reduce storm water runoff and improvate as necessary, landscaping standards for plantling areas for trees and vegetation to reduce storm water runoff and improvate as necessary, landscaping standards for plantling lots that reduce the size of impervious surfaces and encourage natural infiltration of rainwater. Establish ordinances to help mitigate fire hazards related to fuel buildup due to recent hurricanes, by raising tree canopies close to homes, thinning forests near urban areas, and removing trees that are too close to homes. Establish ordinance for the plantling of new urban forests or replacement of hurricane damaged urban forests using hurricane registant tree species to mitigate wind and encosion problems, help beautify and promote healthy urban environments and reduce heating, cooling and storm runoff costs. Storm Water Management, Manage the impacts of land development on storm water runoff rates and to natural drainage systems. Dam Safety Management, Establish a State dam safety program. Mayor and Council Medium Mid-Range Local Funds Funds Community Rating System Program (CRS), Increase participation of NFIP member communities in the CRS Program.		

	City of Orange Beach Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years		Estimated Cost			
1.12	Critical Facilities Assessments. Perform assessments of critical facilities (hospitals, schools, fire and police stations, emergency operation centers, special needs housing, and others) to address building and site vulnerabilities to hazards, identify damage control and retrofit measures to reduce vulnerability to damage and disruption of operations during severe weather and disaster events.								
1.12.1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	Building Official	Medium	Ongoing	FEMA HMA Grant	TBD			
1.12.2	Conduct wildfire vulnerability assessments, including the vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive inventory to identify high and moderate wildfire risk areas.	Building Official	Medium	Ongoing	TBD	TBD			
2	Goal for Property Protection. Protect structures and their occu	pants and contents from t	the damaging effect	s of natural hazard	ls.				
2.1	Building Relocation. Relocate buildings out of hazardous floor	l areas to safeguard again	st damages and est	ablish permanent	open space.				
2.1.1	Pursue FEMA grant funds to relocate buildings out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	Floodplain Manager	Medium	Long-Range	FEMA HMA Grant	TBD			
2.2	Acquisition. Acquire flood prone buildings and properties and	establish permanent oper	n space.						
2.2.1	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Floodplain Manager	Medium	Long-Range	FEMA HMA Grant	TBD			
2.2.2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Floodplain Manager	Medium	Ongoing	FEMA HMA Grant	TBD			

	City of Orange Beach Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
2.3	Building Elevation. Elevate buildings in hazardous flood areas	to safeguard against dam	ages.					
2.3.1	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Floodplain Manager	Medium	Ongoing	FEMA HMA Grant	TBD		
2.3.2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	Floodplain Manager	Medium	Ongoing	FEMA HMA Grant	TBD		
2.4	Flood Proofing. Encourage flood proofing of buildings in hazar	dous flood areas to safeg	juard against damag	ges.				
2.4.1	Pursue FEMA grant funds for flood proofing pre-FIRM non-residential buildings, where feasible.	Floodplain Manager	Medium	Ongoing	FEMA HMA Grant	TBD		
2.5	Flood Control Measures. Small flood control measures built to	reduce/prevent flood dam	nage					
2.5.1	Examine use of minor structural projects (small berm or floodwalls) in areas that cannot be mitigated through non-structural mitigation techniques.	Floodplain Manager	Medium	Ongoing	FEMA HMA Grant	TBD		
2.6	<u>Building Retrofits</u> . Retrofit vulnerable buildings to protect again severe storms, and earthquakes.	nst natural hazards damaç	ges, including floodi	ng, high winds, to	rnadoes, hu	rricanes,		
2.6.1	Pursue FEMA grant funds to retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	Floodplain Manager	Medium	Ongoing	FEMA HMA Grant	TBD		

City of Orange Beach Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost	
2.6.2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	Floodplain Manager	Medium	Short-Range	Existing	TBD	
2.6.3	Promote and assist homeowners to apply for funding for building retrofits through the Alabama Department of Insurance "Strengthen Alabama Homes Grant Program."	Building Official	Medium	Short-Range	Existing	None	
2.7	<u>Hazard Insurance Awareness.</u> Increase public awareness of flo sinkhole, and other damages typically not covered by standard	•	•	required for earthq	uake, lands	lide,	
2.7.1	Promote the purchase of insurance coverage by property owners and renters for flood damages in high-risk areas.	Floodplain Manager	Medium	Ongoing	Existing	TBD	
2.7.3	Participate in education efforts to encourage citizens to research rates and carriers for wind coverage.	Building Official	Medium	Ongoing	Existing	None	
2.8	<u>Critical Facilities Protection</u> . Protect critical facilities from pote relocations of existing facilities located in high-risk zones or co	•			_	trofits or	
2.8.1	Install lightning and/or surge protection on existing critical facilities.	Building Official	Low	Long-Range	TBD	TBD	
2.8.2	Conduct ongoing tree trimming programs along power lines						
2.9	Back Up Power. Ensure uninterrupted power supply to critical f	facilities during emergenc	y events.				
2.9.1	Pursue grant funding for the installation of backup power generators for critical facilities.	Public Works	Low	Long-Range	FEMA HMA Grant	TBD	

	City of Orange Beach Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
3	Goal for Public Education and Outreach. Educate and inform the life and property.	ne public about the risks o	of hazards and the to	echniques availabl	e to reduce	threats to			
3.1	Map Information. Increase public access to Flood Insurance Ra	ate Map (FIRM) information	n.						
3.1.1	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	Floodplain Manager	Medium	Ongoing	Existing	TBD			
3.2	Outreach Projects. Conduct regular public events to inform the public of hazards and mitigation measures.								
3.2.1	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Floodplain Manager	Medium	Ongoing	Existing	TBD			
3.2.2	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	Floodplain Manager	Medium	Ongoing	Existing	TBD			
3.2.3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	Floodplain Manager	Medium	Ongoing	Existing	TBD			
3.2.4	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Floodplain Manager	Medium	Ongoing	Existing	TBD			
3.3	Real Estate Disclosure. Encourage real estate agents to disclosure.	se flood plain location for	property listings.						

	City of Orange Beach Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
3.3.1	Arrange with the Multiple Listing Service (MLS) to require floodplain location disclosure as a condition for each real estate listing.	Floodplain Manager	Medium	Ongoing	TBD	TBD			
3.3.2	Consider the enactment of a local ordinance or state law to require floodplain disclosure when a property is for sale.	Floodplain Manager	Medium	Ongoing	TBD	TBD			
3.4	Library. Use local library resources to educate the public on ha	azard risks and mitigation	alternatives.						
3.4.1	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.	Floodplain Manager	Medium	Ongoing	Existing	TBD			
3.5	Education Programs. Use schools and other community educameasures.	ition resources to conduc	t programs on topic	s related to hazard	l risks and n	nitigation			
3.5.1	Distribute hazard mitigation brochures to students through area schools.	Floodplain Manager	Medium	Ongoing	Existing	TBD			
3.6	<u>Community Hazard Mitigation Plan Distribution</u> . Distribute the businesses, and residents, using all available means of publications.		elected officials, into	erested agencies a	and organiza	ations,			
3.7	Technical Assistance. Make qualified local government staff av	vailable to advise property	owners on various	hazard risks and r	mitigation al	ternatives.			
3.7.1	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Floodplain Manager	High	Ongoing	Existing	TBD			
3.8	Mass Media Relations. Utilize all available mass media, such a on-line social networking to increase public awareness and dis			• • •	s, video sha	ring, and			

	City of Orange Beach Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
3.8.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Baldwin County EMA	High	Short-Term	Existing	TBD			
3.9	Weather Radios. Improve public access to weather alerts.								
3.9.1	Promote the use of weather radios in households and businesses.	Baldwin County EMA	High	Short-Range	Existing	TBD			
3.9.2	Require the installation of weather radios in all public buildings and places of public assembly.	Baldwin County EMA	Medium	Long-Range	Existing	TBD			
3.9.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	Baldwin County EMA	Medium	Long-Range	Existing	TBD			
3.10	<u>Disaster Warning.</u> Improve public warning systems.								
3.10.1	Establish an ALERT flood warning system at strategic locations in the county, including at a minimum, sensors that provide real-time access to stream flow, stream stage, and precipitation data.	Baldwin County EMA	Low	Long-Range	FEMA HMA Grant	TBD			
3.10.2	Ensure that the ALERT warning system links data into GIS with the ability to use measured and forecasted rainfall to predict potential flood levels and create real-time maps of flooded areas.	Baldwin County EMA	Low	Long-Range	FEMA HMA Grant	TBD			
3.10.3	Evaluate the feasibility of a shared tri-county ALERT system covering Baldwin, Escambia, and Mobile counties.	Baldwin County EMA	Low	Long-Range	FEMA HMA Grant	TBD			
3.10.4	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	Baldwin County EMA	Low	Long-Range	FEMA HMA Grant	TBD			

	City of Orange Beach Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
3.10.5	Upgrade critical communications infrastructure.	Baldwin County EMA	Low	Long-Range	FEMA HMA Grant	TBD			
4	Goal for Natural Resources Protection. Preserve and restore the development that balances the constraints of nature with the so				stainable co	ommunity			
4.1	Open Space Easements and Acquisitions. Acquire easements and fee-simple ownership of environmentally beneficial lands, such as hillsides, flood plains, and wetlands to assure permanent protection of these natural resources.								
4.1.1	Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.	Local Government	Medium	Ongoing	FEMA HMA Grant	TBD			
4.2	River/Stream Corridor Restoration and Protection. Restore and	I protect river and stream	corridors within are	as.					
4.2.1	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Building Official	High	Ongoing	Other	TBD			
4.3	<u>Urban Forestry Programs.</u> Maintain a healthy forest that can be within urban areas.	elp mitigate the damaging	impacts of flooding	l , erosion, landslid	es, and wild	fires			
4.3.1	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).	City Forester	Medium	Ongoing	Existing	TBD			
4.3.2	Increase overall green spaces in cities by planting hurricane resistant trees with site and location taken into consideration.	City Forester	Low	Ongoing	TBD	TBD			
4.3.3	Develop an urban forestry management plan to ensure a progressive urban forestry program aimed at increasing forestry canopy, increased safety and planting hurricane resistant species.	City Forester	Low	Ongoing	TBD	TBD			

	City of Orange Beach Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
4.4	Beach and Dune Protection/Renourishment. Protect beaches a programs.	ind dunes from coastal an	d man-made erosio	n and implement r	enourishme	nt			
4.4.1	Restore and protect wetlands to enhance storm water drainage.	City Engineer	Medium	Ongoing	TBD	TBD			
4.4.2	Develop a coastal renourishment program.	Coastal Resource Manager	High	Short-Range	Other	TBD			
4.5	<u>Water Resources Conservation Programs.</u> Protect water quality through water conservation programs to mitigate the effects of droughts and assure uninterrupted potable water supplies.								
4.5.1	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	City Engineer	Medium	Ongoing	TBD	TBD			
5	Goal for Structural Projects. Apply engineered structural modification damaging impacts of hazards, where feasible, cost effective, are	•		ructure to reduce	the potentia	lly			
5.1	<u>Drainage System Maintenance.</u> Improve maintenance program	s for streams and drainag	e ways.						
5.1.1	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	City Engineer	High	Short-Range	Existing	TBD			
5.2	Reservoirs and Drainage System Improvements. Control flood effective and feasible, such as levees/floodwalls, diversions, ch			•		ost			
5.2.1	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	City Engineer	High	Ongoing	FEMA HMA Grant	TBD			
5.3	Community Shelters and Safe Rooms. Provide shelters from na	tural hazards for the safe	ty of community res	idents.					
5.3.1	Ensure the inclusion of storm shelters and/or safe rooms in public buildings such as schools and multi-purpose community centers.	Building Official	High	Ongoing	TBD	TBD			

	City of Orange Beach Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
5.3.2	Pursue grant funds to establish a program for subsidizing safe room and storm shelter construction in appropriate locations and facilities.	Baldwin County EMA	Medium	Mid-Range	FEMA HMA Grant	TBD		

A.8 Perdido Beach Community Action Program

	Town of Perdido Beach Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1	Goal for Prevention. Manage the development of land and build	dings to minimize risks of	loss due to natural	hazards.					
1.1	Planning Studies. Conduct special studies, as needed, to ident methodologies, and increase /maintain hazards database, socio	•		•					
1.1.1	Identify existing culturally or socially significant structures and critical facilities within Baldwin County that have the most potential for losses from natural hazard events and identify needed structural upgrades.	Planning and Zoning Department	Medium	Mid-Range	Local Funds	TBD			
1.1.2	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	Planning and Zoning Department	Medium	Mid-Range	Local Funds	TBD			
1.1.3	Inventory and map existing fire hydrants throughout the community, and identify areas in need of new fire hydrants.	Fire Department, Planning & Zoning Department	Medium	Mid-Range	TBD	TBD			
1.1.4	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	Public Works Department	Medium	Mid- Range/Ongoing	FEMA HMA Grant	TBD			
1.4	Zoning. Establish effective zoning controls, where applicable, development.	to vulnerable land areas to	o discourage enviro	nmentally incompa	atible land u	se and			
1.5	Open Space Preservation. Minimize disturbances of natural lar natural features such as open space for parks, conservation are			through regulation	s that main	tain critical			

	Town of Perdido Beach Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1	Goal for Prevention. Manage the development of land and build	dings to minimize risks of	loss due to natural	hazards.					
1.1	Comprehensive Plans and Smart Growth. Establish an active of sustainable community development.	comprehensive planning p	rogram that is cons	istent with Smart (Growth princ	iples of			
1.1.3	Prepare a five-year capital improvements plan (CIP) to include capital projects that implements the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	Planning Department	Medium	Mid-Range	Local Funds	TBD			
1.2	Geographic Information Systems (GIS). Maintain a comprehensifacilities inventories.	sive database of hazards l	ocations, socio eco	nomic data, infras	tructure, and	l critical			
1.2.3	Mark depths of flooding and storm surge immediately after each event. Enter and maintain these historical records in GIS.	Planning Department	Medium	Mid-Range	Local Funds	TBD			
1.3	Planning Studies. Conduct special studies, as needed, to ident	ify hazard risks and mitig	ation measures.						
1.3.1	Carry out detailed planning and engineering studies for sub- basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Planning Department	Medium	Mid-Range	FEMA HMA Grant	TBD			
1.5	Open Space Preservation. Minimize disturbances of natural lar natural features such as open space for parks, conservation are			through regulation	s that maint	ain critical			
1.5.1	Examine regulatory options and feasibility of requiring open space areas for recreation, landscaping, and drainage control.	Planning Department	Medium	Long-Range	Local Funds	TBD			
1.6	Flood Plain Management Regulations. Effectively administer at	nd enforce local floodplair	n management regul	ations.					

	Town of Perdido Beach Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.6.4	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association Flood Plain Managers and encourage active participation.	Floodplain Manager	High	Short-Range	Local Funds	TBD			
1.6.5	Participate in the "Turn Around, Don't Drown" program by purchasing and installing signs in known flash flood overpass locations.	Floodplain Manager/Emergency Management Coordinator	High	Short-Range	Local Funds	TBD			
1.7	Building and Technical Codes. Review local codes for effective damages.	eness of standards to prot	ect buildings and in	frastructure from I	natural haza	rd			
1.7.3	Relocate existing utility lines underground, where feasible and cost effective, and require, through local subdivision and land development regulations, the placement of all new utility lines underground for large residential subdivisions and commercial developments.	Planning Department	High	Ongoing	Local Funds	TBD			
1.7.6	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	Planning Department	High	Ongoing	FEMA HMA Grant	TBD			
1.8	<u>Landscape Ordinances.</u> Establish minimum standards for plan aesthetics.	ting areas for trees and ve	egetation to reduce	storm water runoff	and improv	e urban			
1.8.1	Review and revise as necessary, landscaping standards for parking lots that reduce the size of impervious surfaces and encourage natural infiltration of rainwater.	Planning Department	Medium	Long-Range	Local Funds	TBD			

	Town of Perdido Beach Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.8.3	Establish ordinance for the planting of new urban forests or replacement of hurricane damaged urban forests using hurricane resistant tree species to mitigate wind and erosion problems, help beautify and promote healthy urban environments and reduce heating, cooling and storm runoff costs.	Floodplain Manager	Medium	Long-Range	Local Funds	TBD			
1.9	Storm Water Management. Manage the impacts of land development on storm water runoff rates and to natural drainage systems.								
1.9.3	Establish urban forestry program to help mitigate storm water runoff common in areas with large impervious surfaces.	Planning Department	Medium	Ongoing	Existing	TBD			
1.10	Community Rating System Program (CRS). Increase participation	ion of NFIP member comn	nunities in the CRS I	Program.					
1.12	<u>Critical Facilities Assessments.</u> Perform assessments of critical special needs housing, and others) to address building and site vulnerability to damage and disruption of operations during seconds.	vulnerabilities to hazard	s, identify damage c		•				
1.12.1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	Building Official	Medium	Ongoing	Local	TBD			
2	Goal for Property Protection. Protect structures and their occup	pants and contents from t	he damaging effects	of natural hazard	s.				
2.1	Building Relocation. Relocate buildings out of hazardous floor	l areas to safeguard again	st damages and est	ablish permanent	open space.				
2.2	Acquisition. Acquire flood prone buildings and properties and	establish permanent open	space.						
2.2.1	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD			

	Town of Perdido Beach Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
2.2.2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD			
2.3	2.3 <u>Building Elevation</u> . Elevate buildings in hazardous flood areas to safeguard against damages.								
2.3.1	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD			
2.3.2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD			
2.4	Flood Proofing. Encourage flood proofing of buildings in haza	rdous flood areas to safeg	juard against damaç	jes.					
2.4.1	Pursue FEMA grant funds for flood proofing pre-FIRM non-residential buildings, where feasible.	Floodplain Manager	Medium	Ongoing	FEMA HMA Funds	TBD			
2.5	<u>Building Retrofits</u> . Retrofit vulnerable buildings to protect again severe storms, and earthquakes.	nst natural hazards damag	ges, including floodi	ng, high winds, to	rnadoes, hur	ricanes,			
2.5.1	Pursue FEMA grant funds to retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD			

	Town of Perdido Beach Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
2.5.2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD			
2.6	Hazard Insurance Awareness. Increase public awareness of flood insurance and special riders that may be required for earthquake, landslide, sinkhole, and other damages typically not covered by standard property protection policies.								
2.6.1	Promote the purchase of insurance coverage by property owners and renters for flood damages in high-risk areas.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD			
2.7	<u>Critical Facilities Protection.</u> Protect critical facilities from pote relocations of existing facilities located in high-risk zones or co	•			_	rofits or			
2.7.1	Install lightning and/or surge protection on existing critical facilities.	Building Official	High	Ongoing	Local Funds	TBD			
2.7.2	Conduct ongoing tree trimming programs along power lines.	Utilities, Public Works	High	Ongoing	Local Funds	TBD			
2.8	Back Up Power. Ensure uninterrupted power supply to critical f	acilities during emergenc	y events.						
2.8.1	Pursue grant funding for the installation of back-up power generators for critical facilities.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD			
3	Goal for Public Education and Outreach. Educate and inform the life and property.			echniques availabl	e to reduce t	threats to			
3.1	Outreach Projects. Conduct regular public events to inform the	public of hazards and mi	tigation measures.						
3.1.1	Publicize the availability of FIRM information to real estate agencies, builders, developers, and homeowners.	Floodplain Administrator	Medium	On-going	TBD	TBD			

	Town of Perdido Beach Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
3.1.2	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Planning Department	Medium	Ongoing	Local Funds	TBD			
3.2	3.2 Community Hazard Mitigation Plan Distribution. Distribute the hazard mitigation plan to elected officials, interested agencies and organizations, businesses, and residents, using all available means of publication and distribution.								
3.2.1	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Local Government	Medium	Ongoing	Local Funds	TBD			
3.2.2	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	Local Government	Medium	Ongoing	Local Funds	TBD			
3.2.3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	Local Government	Medium	Ongoing	Local Funds	TBD			
3.2.4	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Local Government	Medium	Ongoing	Local Funds	TBD			
3.3	<u>Technical Assistance</u> . Make qualified local government staff av	vailable to advise property	owners on various	hazard risks and r	nitigation al	ternatives.			
3.3.1	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Local Floodplain Manger	High	Ongoing	Local Funds	TBD			

	Town of Perdido Beach Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
3.3.2	Consider the enactment of a local ordinance or state law to require floodplain disclosure when a property is for sale.	Local Government	Medium	Ongoing	Local Funds	TBD			
3.4	Mass Media Relations. Utilize all available mass media, such as, newspapers, radio, TV, cable access, internet blogs, podcasts, video sharing, and on-line social networking to increase public awareness and distribute public information on hazard mitigation topics.								
3.4.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Mayor and Council	Medium	Ongoing	Local Funds	TBD			
3.5	Weather Radios. Improve public access to weather alerts.								
3.5.1	Distribute hazard mitigation brochures to students through area schools	Local Government	Medium	Ongoing	Local Funds	TBD			
3.5.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	Mayor and Council	High	Short-Range	Existing	TBD			
3.6	Community Hazard Mitigation Plan Distribution. Distribute the businesses, and residents, using all available means of publications.	•	elected officials, into	erested agencies a	and organiza	tions,			
3.6.1	Distribute the 2020 plan to local officials, stakeholders, and interested individuals through internet download.	Baldwin County EMA	High	Short-Range	Existing	TBD			
37	Technical Assistance. Make qualified local government staff a	vailable to advise property	y owners on various	hazard risks and	mitigation al	ternatives.			
37.1	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Building Department	Medium	Ongoing	Local Funds	TBD			
3.8	3.8 Mass Media Relations. Utilize all available mass media, such as, newspapers, radio, TV, cable access, internet blogs, podcasts, video sharing, and on-line social networking to increase public awareness and distribute public information on hazard mitigation topics.								

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more	Funding Source	Estimated Cost
3.8.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Local Government	Medium	Ongoing	Local Funds	TBD
3.9	Weather Radios. Improve public access to weather alerts.					
3.9.1	Promote the use of weather radios in households and businesses.	Local Government	High	Short-Range	Existing	TBD
3.9.2	Require the installation of weather radios in all public buildings and places of public assembly.	Local Government	High	Short-Range	Existing	TBD
3.9.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	Local Government	High	Short-Range	Existing	TBD
3.10	<u>Disaster Warning</u> . Improve public warning systems.					
3.10.1	Establish an ALERT flood warning system at strategic locations in the county, including at a minimum, sensors that provide real-time access to stream flow, stream stage, and precipitation data.	Local Government	High	Mid-Range	FEMA HMA Grant	TBD
3.10.2	Ensure that the ALERT warning system links data into GIS with the ability to use measured and forecasted rainfall to predict potential flood levels and create real-time maps of flooded areas.	Local Government	High	Mid-Range	FEMA HMA Grant	TBD
3.10.4	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	Local Government	High	Mid-Range	FEMA HMA Grant	TBD
3.10.5	Upgrade critical communications infrastructure.	Local Government	High	Long-Range	TBD	TBD

	Town of Perdido	Beach Community Action	Program						
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more	than five years Funding Source	Estimated Cost			
4	Goal for Natural Resources Protection. Preserve and restore the development that balances the constraints of nature with the second constraints.			•	sustainable c	ommunity			
4.1	4.1 Open Space Easements and Acquisitions. Acquire easements and fee-simple ownership of environmentally beneficial lands, such as hillsides, flood plains, and wetlands to assure permanent protection of these natural resources.								
4.1.1	Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.								
4.2	4.2 <u>River/Stream Corridor Restoration and Protection.</u> Restore and protect river and stream corridors within areas.								
4.2.1	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Floodplain Administrator/Building Official	Medium	Ongoing	Local Funds	TBD			
4.2.2	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	City Building Official	Medium	Long-Range	Local Funds	TBD			
4.3	<u>Urban Forestry Programs.</u> Maintain a healthy forest that can he urban areas.	elp mitigate the damaging	impacts of flooding	g, erosion, landsli	des, and wild	I fires within			
4.3.1	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).	Local Government	Low	Long-Range	TBD	TBD			
4.3.2	Increase overall green spaces in cities by planting hurricane resistant trees with site and location taken into consideration.	Floodplain Administrator/Building Official/Planning Department	Medium	Ongoing	TBD	TBD			
4.3.3	Develop an urban forestry management plan to ensure a progressive urban forestry program aimed at increasing forestry canopy, increased safety and planting hurricane resistant tree species.	Floodplain Administrator/Building Official/Planning Department	Medium	Ongoing	Local Funds	TBD			

	Town of Perdido Beach Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more	than five years Funding Source	Estimated Cost			
4.4	Beach and Dune Protection/Renourishment. Protect beaches a programs.	and dunes from coastal ar	nd man-made erosio	n and implement	renourishme	nt			
4.4.1	Restore and protect wetlands to enhance stormwater drainage.	Planning Department	Medium	Long-Range	Local Funds	TBD			
4.5	<u>Water Resources Conservation Programs.</u> Protect water quality through water conservation programs to mitigate the effects of droughts and assure uninterrupted potable water supplies.								
4.5.1	Enforce water use restrictions during periods of drought to conserve existing water supplies.	Local Government	Medium	Long-Range	TBD	TBD			
5	Goal for Structural Projects. Apply engineered structural modi damaging impacts of hazards, where feasible, cost effective, as	•		tructure to reduce	e the potentia	ally			
5.1	Drainage System Maintenance. Improve maintenance program	s for streams and drainaç	ge ways.						
5.1.1	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Planning Department	Medium	Long-Range	Local Funds	TBD			
5.2	Reservoirs and Drainage System Improvements. Control floodin feasible, such as levees/floodwalls, diversions, channel modification				med cost effe	ctive and			
5.2.1	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Floodplain Administrator, Street Department, Local Government	Medium	Long-Range	TBD	TBD			
5.3	Community Shelters and Safe Rooms. Provide shelters from na	atural hazards for the safe	ety of community res	sidents.					
5.3.1	Ensure the inclusion of storm shelters and/or safe rooms in public buildings such as schools and multi-purpose community centers.	City Building Official	High	Short-Range	FEMA HMA Grant	TBD			

	Town of Perdido Beach Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more	than five years Funding Source	Estimated Cost			
5.3.2	Pursue grand funds to establish a program for subsidizing safe room and storm shelter construction in appropriate locations and facilities.	City Building Official	High	Short-Range	FEMA HMA Grant	TBD			
5.3.3	Encourage the construction of safe rooms in new and existing homes and buildings.	City Building Official	High	Short-Range	FEMA HMA Grant	TBD			

A.12 Robertsdale Community Action Program

	City of Robertsdale Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1	Goal for Prevention. Manage the development of land and buildings to m	iinimize risks of loss due to	natural haza	rds.					
1.1	Comprehensive Plans and Smart Growth. Establish an active comprehen community development.	nsive planning program that	t is consister	nt with Smart Growth	n principles of	sustainable			
1.1.1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.	Municipal Planning Commission	Medium	Short- Range	Local Funds	\$36,000			
1.1.2	Integrate the findings and recommendations of this plan into comprehensive plan amendments for jurisdictions with active comprehensive planning programs.	Municipal Planning Commission	Medium	Mid-Range	Local Funds	TBD			
1.1.3	Prepare a five-year capital improvements plan (CIP) to include capital projects that implements the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	Municipal Planning Commission	Medium	Mid-Range	Local Funds	TBD			
1.2	Geographic Information Systems (GIS). Maintain a comprehensive databinventories.	ase of hazards locations, so	ocio econom	ic data, infrastructu	re, and critical	facilities			

	City of Robertsdale C	ommunity Action Program				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost
1.2.1	Maintain a centralized, countywide natural hazards and risk assessment database in GIS that is accessible to local planners and emergency management personnel, including such data as, flood zones, geohazards, major drainages structures, dams/levees, hurricane surge areas, tornado tracks, disaster events and their extents, and a comprehensive inventory of critical facilities within all jurisdictions.	County GIS Department	High	Mid-Range	FEMA HMA Grant	TBD
1.2.2	Integrate FEMA HAZUS-MH applications for hazard loss estimates within local GIS program. Maintain up-to-date within GIS to apply the full loss estimation capabilities of HAZUS.	City Engineer	Medium	Long-Range	\$10,000	TBD
1.2.3	Mark depths of flooding and storm surge immediately after each event. Enter and maintain these historical records in GIS.	City Engineer	Medium	Long-Range	TBD	TBD
1.3	Planning Studies. Conduct special studies, as needed, to identify hazard	l risks and mitigation measu	res.			
1.3.1	Carry out detailed planning and engineering studies for sub-basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	City Engineer	Medium	Mid-Range	\$50,000	TBD
1.3.2	Identify existing culturally or socially significant structures and critical facilities within Baldwin County that have the most potential for losses from natural hazard events and identify needed structural upgrades.	City Engineer	Medium	Long-Range	TBD	TBD
1.3.3	Evaluate elevation and culvert sizing of existing roadways in flash flood- prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	City Engineer	Medium	Mid-Range	\$20,000	TBD
1.3.4	Inventory and map existing fire hydrants throughout the county, and identify areas in need of new fire hydrants.	Fire Department	Medium	Mid-Range	Local Funds	TBD

	City of Robertsdale C	ommunity Action Program						
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
1.3.5	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	Public Works	Medium	Mid- Range/Ongoing	\$120,000	TBD		
1.4	Zoning. Establish effective zoning controls, where applicable, to vulnerable land areas to discourage environmentally incompatible land use and development.							
1.4.1	Consider large lot size restriction on flood prone areas designated on Flood Insurance Rate Maps.	Municipal Planning Commission	Low	Long-Range	Local Funds	TBD		
1.4.2	Evaluate additional land use restrictions within designated flood zones, such as prohibition of storage of buoyant materials, storage of hazardous materials, restrictive development of flood ways, among others.	Municipal Planning Commission	Low	Long-Range	Local Funds	TBD		
1.4.3	Require delineation of flood plain fringe, floodways, and wetlands on all plans submitted with a permit for development within a flood plain.	City Engineer	Medium	Mid-Range	Local Funds	TBD		
1.5	Open Space Preservation. Minimize disturbances of natural land feature features such as open space for parks, conservation areas, landscaping,		runoff thro	ugh regulations that	maintain critic	cal natural		
1.6	Flood Plain Management Regulations. Effectively administer and enforce	e local floodplain manageme	ent regulatio	ns.				
1.6.1	Train local flood plain managers through programs offered by the State Flood Plain Coordinator or FEMA's training center in Emmitsburg, Maryland.	City Engineer	Medium	Short-Range	Local Funds	\$1,500		
1.6.2	Maintain a library of technical assistance and guidance materials to support the local floodplain manager.	City Engineer	Medium	Short-Range	Local Funds	TBD		

	City of Robertsdale C	ommunity Action Program				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost
1.6.3	Promote the adoption of uniform flood hazard prevention ordinance among all NFIP communities. The ordinance standards should encourage flood plain management that maintains the natural and beneficial functions of flood plains by maximizing the credits that could be obtained for "Higher Regulatory Standards" under the Community Rating System (CRS) Program.	City Engineer/Floodplain Administrator	Medium	Long-Range	TBD	TBD
1.6.4	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association Flood Plain Managers and encourage active participation.	Municipal Planning Commission	Low	Long-Range	Local Funds	TBD
1.6.6	Improve flood risk assessment by documenting high water marks post event, verification of FEMA's repetitive loss inventory, and revising and updating regulatory floodplain maps.	Building Official	Medium	Ongoing	Local Funds	TBD
1.7	Building and Technical Codes. Review local codes for effectiveness of s	tandards to protect building	s and infras	tructure from natura	l hazard dama	ges.
1.7.1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	Building Official	Medium	Mid-Range	Local Funds	TBD
1.7.2	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of "hurricane clips."	Building Official	High	Mid-Range	Local Funds	TBD
1.7.3	Relocate existing utility lines underground, where feasible and cost effective, and require, through local subdivision and land development regulations, the placement of all new utility lines underground for large residential subdivisions and commercial developments.	Municipal Planning Commission	Low	Long-Range	Local Funds	TBD
1.7.4	Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters	Building Official/Fire Department	High	Ongoing	TBD	TBD

	City of Robertsdale Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.7.5	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	Building Official	Medium	Short-Range	Local Funds	TBD			
1.7.6	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	Building Official	Medium	Short-Range	Local Funds	TBD			
1.8	.8 <u>Landscape Ordinances.</u> Establish minimum standards for planting areas for trees and vegetation to reduce storm water runoff and improve urban aesthetics.								
1.8.1	Review and revise as necessary, landscaping standards for parking lots that reduce the size of impervious surfaces and encourage natural infiltration of rainwater.	Municipal Planning Commission	Medium	Long-Range	Local Funds	TBD			
1.8.2	Establish ordinances to help mitigate fire hazards related to fuel buildup due to recent hurricanes, by raising tree canopies close to homes, thinning forests near urban areas, and removing trees that are too close to homes.	Municipal Planning Commission/Local Government	Medium	Long-Range	Local Funds	TBD			
1.9	Storm Water Management. Manage the impacts of land development on	storm water runoff rates and	l to natural o	drainage systems.					
1.9.2	Develop, adopt and implement subdivision regulations that require proper storm water infrastructure design and construction.	Municipal Planning Commission	Medium	Ongoing	Existing	TBD			
1.10	<u>Dam Safety Management.</u> Establish a comprehensive dam safety progra	m.							
1.10.1	Support legislation to establish a State dam safety program.	Municipal Planning Commission	Medium	Ongoing	Existing	TBD			
1.11	Community Rating System Program (CRS). Increase participation of NFI	P member communities in th	ne CRS Prog	ram.					
2	Goal for Property Protection: Protect structures and their occupants and	contents from the damaging	g effects of I	natural hazards.					

	City of Robertsdale C	ommunity Action Program						
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
2.1	2.1 <u>Building Relocation.</u> Relocate buildings out of hazardous flood areas to safeguard against damages and establish permanent open space.							
2.1.1	Pursue FEMA grant funds to relocate buildings and infrastructure out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	Building Official	Medium	Ongoing	FEMA HMA Grant	TBD		
2.2	Acquisition. Acquire flood prone buildings and properties and establish perma	anent open space.						
2.2.1	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Building Official	High	Short-Range	FEMA HMA Grant	TBD		
2.2.2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid	Building Official	High	Short-Range	FEMA HMA Grant	TBD		
2.3	Building Elevation. Elevate buildings in hazardous flood areas to safegu	ard against damage.						
2.3.1	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD		
2.3.2	Pursue grant funds to repair, elevate and weatherize existing homes for low-to moderate-income families.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD		
2.4	Flood Proofing. Encourage flood proofing of building in hazardous flood	areas to safeguard against o	damages.	'	1			

	City of Robertsdale Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
2.4.1	Pursue FEMA grant funds for flood proofing pre-FIRM non-residential buildings, where feasible.	Building Official	High	Short-Range	FEMA HMA Grant	TBD			
2.5	Flood Control Measures. Small flood control measures built to reduce/prevent flood damage.								
2.5.1	Examine use of minor structural projects (small berm or floodwalls) in areas that cannot be mitigated through non-structural mitigation techniques.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD			
2.6	Building Retrofits. Retrofit vulnerable buildings to protect against natural hazards damages, including flooding, high winds, tornadoes, hurricanes, severe storms, and earthquakes.								
2.6.1	Pursue FEMA grant funds to retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD			
2.6.2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	City Engineer	Medium	Mid-Range	Local Funds	TBD			
2.7	Hazard Insurance Awareness. Increase public awareness of flood insura other damages typically not covered by standard property protection pol		may be requ	ired for earthquake,	landslide, sink	hole, and			
2.7.1	Promote the purchase of insurance coverage by property owners and renters for flood damages in high-risk areas.	Building Official	Medium	Mid-Range	Local Funds	TBD			
2.7.2	Promote the purchase of crop insurance to cover potential losses due to drought.	Building Official	Medium	Mid-Range	Local Funds	TBD			
2.8	<u>Critical Facilities Protection.</u> Protect critical facilities from potential dam relocations of existing facilities located in high-risk zones or construction	•			ugh retrofits or				

	City of Robertsdale Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
2.8.1	Install lightning and/or surge protection on existing critical facilities.	Building Official	Medium	Mid-Range	Local Funds	TBD		
2.8.2	Conduct ongoing tree trimming programs along power lines.	Public Works/Utilities	Medium	Ongoing	Local Funds	TBD		
2.9	Back Up Power. Ensure uninterrupted power supply to critical facilities during emergency events.							
2.9.1	Pursue grant funding for the installation of back-up power generators for critical facilities.	Baldwin County EMA	Medium	Mid-Range	FEMA HMA Grant	TBD		
3	Goal for Public Education and Outreach. Educate and inform the public property.	about the risks of hazards ar	nd the techn	iques available to re	duce threats to	o life and		
3.1	Map Information. Increase public access to Flood Insurance Rate Map (F	FIRM) information.						
3.1.1	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	Building Official	Medium	Ongoing	Existing	TBD		
3.2	Outreach Projects. Conduct regular public events to inform the public of	f hazards and mitigation mea	sures.					
3.2.1	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Building Official	Medium	Ongoing	Existing	TBD		
3.2.2	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	Building Official	Medium	Ongoing	Existing	TBD		

	City of Robertsdale Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
3.2.3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	Emergency Management Coordinator	Medium	Ongoing	Local	TBD		
3,2,4	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Building Official	Medium	Ongoing	Existing	TBD		
3.3	Real Estate Disclosure. Encourage real estate agents to disclose flood p	plain location for property lis	tings.					
3.3.2	Consider the enactment of a local ordinance or state law to require floodplain location disclosure when a property is listed for sale.	Building Official	Medium	Mid-Range	Existing	TBD		
3.4	<u>Library.</u> Use local library resources to educate the public on hazard risk	s and mitigation alternatives			<u> </u>			
3.4.1	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.	City Engineer	Low	Long-Range	Existing	TBD		
3.5	Education Programs. Use schools and other community education reso	urces to conduct programs o	on topics rel	ated to hazard risks	and mitigation	n measures.		
3.5.1	Distribute hazard mitigation brochures to students through area schools.	Building Official	Medium	Mid-Range	Existing	TBD		
3.5.2	Educate homeowners about structural and non-structural retrofitting of vulnerable homes.	Building Official	Medium	Mid-Range	Existing	TBD		
3.6	Community Hazard Mitigation Plan Distribution. Distribute the hazard m and residents, using all available means of publication and distribution.	itigation plan to elected offic	ials, interes	ted agencies and or	ganizations, bu	usinesses,		
3.6.1	Distribute the 2020 plan to local officials, stakeholders, and interested individuals through internet download.	Baldwin County EMA	High	Short-Range	Existing	TBD		

	City of Robertsdale Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
3.6.2	Distribute the 2020 plan summary to the public through local jurisdictions, via the internet and other media.	Baldwin County EMA	High	Short-Range	Existing	TBD		
3.7	Technical Assistance. Make qualified local government staff available to	advise property owners on	various haza	ard risks and mitigat	ion alternative	es.		
3.7.1	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Local Floodplain Manger	Medium	Short-Range	Local Funds	TBD		
3.8	Mass Media Relations. Utilize all available mass media, such as, newspapers, radio, TV, cable access, internet blogs, podcasts, video sharing, and on-line social networking to increase public awareness and distribute public information on hazard mitigation topics.							
3.8.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Public Works Director	High	Mid-Range	Local Funds	TBD		
3.9	Weather Radios. Improve public access to weather alerts.							
3.9.1	Promote the use of weather radios in households and businesses.	Public Works Director	High	Mid-Range	Local Funds	TBD		
3.9.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	Public Works Director	High	Mid-Range	НМА	TBD		
3.10	<u>Disaster Warning</u> . Improve public warning systems.							
3.10.1	Establish an ALERT flood warning system at strategic locations in the county, including at a minimum, sensors that provide real-time access to stream flow, stream stage, and precipitation data.	Municipal Planning Commission	Medium	Long-Range	Local Funds	TBD		
3.10.2	Ensure that the ALERT warning system links data into GIS with the ability to use measured and forecasted rainfall to predict potential flood levels and create real-time maps of flooded areas.	Municipal Planning Commission	Medium	Long-Range	Local Funds	TBD		

	City of Robertsdale Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
3.10.5	Upgrade critical communications infrastructure.	Public Works Director	Medium	Short-Range	FEMA HMA Grant	TBD		
4	Goal for Natural Resources Protection. Preserve and restore the benefic development that balances the constraints of nature with the social and			to promote sustaina	able community	/		
4.1	Open Space Easements and Acquisitions. Acquire easements and fee-simple ownership of environmentally beneficial lands, such as hillsides, flood plains, and wetlands to assure permanent protection of these natural resources.							
4.2	River/Stream Corridor Restoration and Protection. Restore and protect r	iver and stream corridors wit	thin areas.					
4.2.1	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	City Engineer	Low	Mid-Range	Local Funds	TBD		
4.2.2	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	City Engineer	Medium	Mid-Range	Local Funds	TBD		
4.3	<u>Urban Forestry Programs.</u> Maintain a healthy forest that can help mitig	gate damaging impacts of flood	ing, erosion,	landslides and wildfi	res within urban	areas.		
4.3.1	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).	City Engineer	Medium	Mid-Range	Local Funds	TBD		
4.3.2	Increase overall green spaces in cities by planting hurricane resistant trees with site and location taken into consideration.	Public Works Director	Low	Mid-Range	Local Funds	TBD		
4.4	Beach and Dune Protection/Renourishment. Protect beaches and dunes for	om coastal and man-made ero	sion and imp	olement renourishme	nt programs.			
4.4.1	Restore and protect wetlands to enhance storm water drainage.	Public Works Director	High	Mid-Range	FEMA HMA Grant	TBD		
4.5								

	City of Robertsdale Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
4.5.1	Prepare and implement standard operating procedures and guidelines for drainage system maintenance. Develop a coastal renourishment program	City Engineer	Medium	Mid-Range	Local Funds	TBD		
5	Goal for Structural Projects. Apply engineered structural modifications to impacts of hazards, where feasible, cost effective, and environmentally states.	•	infrastruct	ure to reduce the po	otentially dama	ging		
5.1	<u>Drainage System Maintenance.</u> Improve maintenance programs for stream	ams and drainage ways.						
5.1.1	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	City Engineer	High	Long-Range	Local Funds	\$10,000		
5.2	Reservoirs and Drainage System Improvements. Control flooding through such as levees/floodwalls, diversions, channel modifications, dredging, drainage such as levees/floodwalls, diversions, dredging, drainage such as levees/floodwalls, diversions, dredging, drainage such as levees/floodwalls, diversions, dredging, drainage such as levees/floodwalls, drainage such as levees/floodwalls			ts, where deemed co	st effective and	feasible,		
5.2.1	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Public Works Director	High	Mid-Range	FEMA HMA Grant	\$500,000		
5.2.2	Improve and retrofit water supply systems to save water during drought events and to eliminate breaks and leaks.	Public Works Director	High	Mid-Range	FEMA HMA Grant	TBD		
5.3	Community Shelters and Safe Rooms. Provide shelters from natural haza	ards for the safety of commu	nity residen	ts.				
5.3.1	Ensure the inclusion of storm shelters and/or safe rooms in public buildings such as schools and multi-purpose community centers.	Public Works Director	High	Mid-Range	FEMA HMA Grant	\$1,500,000		
5.3.2	Pursue grant funds to establish a program for subsidizing safe room and storm shelter construction in appropriate locations and facilities.	Public Works Director	High	Mid-Range	FEMA HMA Grant	TBD		
5.3.3	Encourage the construction of safe rooms in new and existing homes and buildings	Public Works Director	High	Mid-Range	FEMA HMA Grant	TBC		

A.13 Silverhill Community Action Program

	Town of Silverhill Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
1	Goal for Prevention. Manage the development of land and build	dings to minimize risks of	loss due to natural	hazards.				
1.1	Planning Studies. Conduct special studies, as needed, to ident methodologies, and increase /maintain hazards database, socio	•		•				
1.1.1	Identify existing culturally or socially significant structures and critical facilities within Baldwin County that have the most potential for losses from natural hazard events and identify needed structural upgrades.	Planning and Zoning Department	Medium	Mid-Range	Local Funds	TBD		
1.1.2	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	Planning and Zoning Department	Medium	Mid-Range	Local Funds	TBD		
1.1.3	Inventory and map existing fire hydrants throughout the community, and identify areas in need of new fire hydrants.	Fire Department, Planning & Zoning Department	Medium	Mid-Range	TBD	TBD		
1.1.4	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	Public Works Department	Medium	Mid- Range/Ongoing	FEMA HMA Grant	TBD		
1.4	Zoning. Establish effective zoning controls, where applicable, development.	to vulnerable land areas to	o discourage enviro	nmentally incompa	atible land u	se and		
1.5	Open Space Preservation. Minimize disturbances of natural lar natural features such as open space for parks, conservation are			through regulation	s that main	tain critical		

	Town of Silverhill Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
1	Goal for Prevention. Manage the development of land and build	dings to minimize risks of	loss due to natural	hazards.				
1.1	Comprehensive Plans and Smart Growth. Establish an active of sustainable community development.	omprehensive planning p	rogram that is cons	istent with Smart (Growth princ	iples of		
1.1.3	Prepare a five-year capital improvements plan (CIP) to include capital projects that implements the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	Planning Department	Medium	Mid-Range	Local Funds	TBD		
1.2	Geographic Information Systems (GIS). Maintain a comprehens facilities inventories.	sive database of hazards l	ocations, socio eco	nomic data, infras	tructure, and	l critical		
1.2.3	Mark depths of flooding and storm surge immediately after each event. Enter and maintain these historical records in GIS.	Planning Department	Medium	Mid-Range	Local Funds	TBD		
1.3	Planning Studies. Conduct special studies, as needed, to ident	ify hazard risks and mitig	ation measures.					
1.3.1	Carry out detailed planning and engineering studies for sub- basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Planning Department	Medium	Mid-Range	FEMA HMA Grant	TBD		
1.5	Open Space Preservation. Minimize disturbances of natural lar natural features such as open space for parks, conservation are			through regulation	s that maint	ain critical		
1.5.1	Examine regulatory options and feasibility of requiring open space areas for recreation, landscaping, and drainage control.	Planning Department	Medium	Long-Range	Local Funds	TBD		
1.6	Flood Plain Management Regulations. Effectively administer at	nd enforce local floodplair	n management regul	lations.				

	Town of Silverhill Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
1.6.4	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association Flood Plain Managers and encourage active participation.	Floodplain Manager	High	Short-Range	Local Funds	TBD		
1.6.5	Participate in the "Turn Around, Don't Drown" program by purchasing and installing signs in known flash flood overpass locations.	Floodplain Manager/Emergency Management Coordinator	High	Short-Range	Local Funds	TBD		
1.7	Building and Technical Codes. Review local codes for effective damages.	eness of standards to prof	tect buildings and in	frastructure from	natural haza	rd		
1.7.3	Relocate existing utility lines underground, where feasible and cost effective, and require, through local subdivision and land development regulations, the placement of all new utility lines underground for large residential subdivisions and commercial developments.	Planning Department	High	Ongoing	Local Funds	TBD		
1.7.6	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	Planning Department	High	Ongoing	FEMA HMA Grant	TBD		
1.8	<u>Landscape Ordinances.</u> Establish minimum standards for plan aesthetics.	ting areas for trees and ve	egetation to reduce	storm water runof	f and improv	e urban		
1.8.1	Review and revise as necessary, landscaping standards for parking lots that reduce the size of impervious surfaces and encourage natural infiltration of rainwater.	Planning Department	Medium	Long-Range	Local Funds	TBD		

	Town of Silverhill Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
1.8.3	Establish ordinance for the planting of new urban forests or replacement of hurricane damaged urban forests using hurricane resistant tree species to mitigate wind and erosion problems, help beautify and promote healthy urban environments and reduce heating, cooling and storm runoff costs.	Floodplain Manager	Medium	Long-Range	Local Funds	TBD		
1.9	Storm Water Management. Manage the impacts of land develop	oment on storm water run	off rates and to natu	ral drainage syste	ms.			
1.9.3	Establish urban forestry program to help mitigate storm water runoff common in areas with large impervious surfaces.	Planning Department	Medium	Ongoing	Existing	TBD		
1.10	Community Rating System Program (CRS). Increase participation	ion of NFIP member comn	nunities in the CRS	Program.				
1.12	<u>Critical Facilities Assessments.</u> Perform assessments of critical special needs housing, and others) to address building and site vulnerability to damage and disruption of operations during seconds.	vulnerabilities to hazard	s, identify damage c		•			
1.12.1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	Building Official	Medium	Ongoing	Local	TBD		
2	Goal for Property Protection. Protect structures and their occup	pants and contents from t	he damaging effects	of natural hazard	s.			
2.1	Building Relocation. Relocate buildings out of hazardous floor	l areas to safeguard again	st damages and est	ablish permanent	open space.			
2.2	Acquisition. Acquire flood prone buildings and properties and	establish permanent open	space.					
2.2.1	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD		

	Town of Silverhill Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
2.2.2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD		
2.3	2.3 <u>Building Elevation</u> . Elevate buildings in hazardous flood areas to safeguard against damages.							
2.3.1	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD		
2.3.2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD		
2.4	Flood Proofing. Encourage flood proofing of buildings in haza	rdous flood areas to safeg	juard against damag	jes.				
2.4.1	Pursue FEMA grant funds for flood proofing pre-FIRM non-residential buildings, where feasible.	Floodplain Manager	Medium	Ongoing	FEMA HMA Funds	TBD		
2.5	<u>Building Retrofits</u> . Retrofit vulnerable buildings to protect again severe storms, and earthquakes.	nst natural hazards damag	ges, including floodi	ng, high winds, to	rnadoes, hur	ricanes,		
2.5.1	Pursue FEMA grant funds to retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD		

	Town of Silverhill Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more	Funding Source	Estimated Cost			
2.5.2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD			
2.6	<u>Hazard Insurance Awareness.</u> Increase public awareness of flood insurance and special riders that may be required for earthquake, landslide, sinkhole, and other damages typically not covered by standard property protection policies.								
2.6.1	Promote the purchase of insurance coverage by property owners and renters for flood damages in high-risk areas.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD			
2.7	<u>Critical Facilities Protection.</u> Protect critical facilities from pote relocations of existing facilities located in high-risk zones or co					trofits or			
2.7.1	Install lightning and/or surge protection on existing critical facilities.	Building Official	High	Ongoing	Local Funds	TBD			
2.7.2	Conduct ongoing tree trimming programs along power lines.	Utilities, Public Works	Medium	Ongoing	Local Funds	TBD			
2.8	Back Up Power. Ensure uninterrupted power supply to critical f	acilities during emergenc	y events.						
2.8.1	Pursue grant funding for the installation of back-up power generators for critical facilities.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD			
3	Goal for Public Education and Outreach. Educate and inform the life and property.			echniques availabl	le to reduce t	threats to			
3.1	Outreach Projects. Conduct regular public events to inform the		tigation measures.						
3.1.1	Publicize the availability of FIRM information to real estate agencies, builders, developers, and homeowners.	Floodplain Administrator	Medium	On-going	TBD	TBD			

	Town of Silverhill Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
3.1.2	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Planning Department	Medium	Ongoing	Local Funds	TBD			
3.2	3.2 Community Hazard Mitigation Plan Distribution. Distribute the hazard mitigation plan to elected officials, interested agencies and organizations, businesses, and residents, using all available means of publication and distribution.								
3.2.1	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Local Government	Medium	Ongoing	Local Funds	TBD			
3.2.2	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	Local Government	Medium	Ongoing	Local Funds	TBD			
3.2.3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	Local Government	Medium	Ongoing	Local Funds	TBD			
3.2.4	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Local Government	Medium	Ongoing	Local Funds	TBD			
3.3	<u>Technical Assistance</u> . Make qualified local government staff av	vailable to advise property	owners on various	hazard risks and r	nitigation alt	ernatives.			
3.3.1	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Local Floodplain Manger	High	Ongoing	Local Funds	TBD			

	Town of Silverhill Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
3.3.2	Consider the enactment of a local ordinance or state law to require floodplain disclosure when a property is for sale.	Local Government	Medium	Ongoing	Local Funds	TBD			
3.4	Mass Media Relations. Utilize all available mass media, such as, newspapers, radio, TV, cable access, internet blogs, podcasts, video sharing, and on-line social networking to increase public awareness and distribute public information on hazard mitigation topics.								
3.4.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Mayor and Council	Medium	Ongoing	Local Funds	TBD			
3.5	Weather Radios. Improve public access to weather alerts.								
3.5.1	Distribute hazard mitigation brochures to students through area schools	Local Government	Medium	Ongoing	Local Funds	TBD			
3.5.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	Mayor and Council	High	Short-Range	Existing	TBD			
3.6	Community Hazard Mitigation Plan Distribution. Distribute the businesses, and residents, using all available means of publications.	•	elected officials, into	l erested agencies a	and organiza	tions,			
3.6.1	Distribute the 2020 plan to local officials, stakeholders, and interested individuals through internet download.	Baldwin County EMA	High	Short-Range	Existing	TBD			
37	Technical Assistance. Make qualified local government staff a	vailable to advise property	y owners on various	hazard risks and	mitigation al	ternatives.			
37.1	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Building Department	Medium	Ongoing	Local Funds	TBD			
3.8	Mass Media Relations. Utilize all available mass media, such as on-line social networking to increase public awareness and dis				s, video shar	ing, and			

	Town of Silverhill Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
3.8.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Local Government	Medium	Ongoing	Local Funds	TBD			
3.9	Weather Radios. Improve public access to weather alerts.								
3.9.1	Promote the use of weather radios in households and businesses.	Local Government	High	Short-Range	Existing	TBD			
3.9.2	Require the installation of weather radios in all public buildings and places of public assembly.	Local Government	High	Short-Range	Existing	TBD			
3.9.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	Local Government	High	Short-Range	Existing	TBD			
3.10	<u>Disaster Warning</u> . Improve public warning systems.								
3.10.1	Establish an ALERT flood warning system at strategic locations in the county, including at a minimum, sensors that provide real-time access to stream flow, stream stage, and precipitation data.	Local Government	High	Mid-Range	FEMA HMA Grant	TBD			
3.10.2	Ensure that the ALERT warning system links data into GIS with the ability to use measured and forecasted rainfall to predict potential flood levels and create real-time maps of flooded areas.	Local Government	High	Mid-Range	FEMA HMA Grant	TBD			
3.10.4	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	Local Government	High	Mid-Range	FEMA HMA Grant	TBD			
3.10.5	Upgrade critical communications infrastructure.	Local Government	High	Long-Range	TBD	TBD			
4	Goal for Natural Resources Protection. Preserve and restore th development that balances the constraints of nature with the so				stainable co	mmunity			

	Town of Silver	hill Community Action Pr	ogram			
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more	than five years Funding Source	Estimated Cost
4	Goal for Natural Resources Protection. Preserve and restore to development that balances the constraints of nature with the s			•	ustainable c	ommunity
4.1	Open Space Easements and Acquisitions. Acquire easements and wetlands to assure permanent protection of these natural resources.		environmentally bene	ficial lands, such a	s hillsides, flo	od plains,
4.1.1	Increase open space acquisitions through the FEMA HMA Grant Pr	ograms and other flood plair	acquisition efforts.			
4.2	Restore and Protection. Restore and	d protect river and stream	corridors within are	eas.		
4.2.1	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Floodplain Administrator/Building Official	Medium	Ongoing	Local Funds	TBD
4.2.2	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	City Building Official	Medium	Long-Range	Local Funds	TBD
4.3	<u>Urban Forestry Programs.</u> Maintain a healthy forest that can he urban areas.	elp mitigate the damaging	impacts of flooding	g, erosion, landsli	des, and wild	d fires within
4.3.1	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).	Local Government	Low	Long-Range	TBD	TBD
4.3.2	Increase overall green spaces in cities by planting hurricane resistant trees with site and location taken into consideration.	Floodplain Administrator/Building Official/Planning Department	Medium	Ongoing	TBD	TBD
4.3.3	Develop an urban forestry management plan to ensure a progressive urban forestry program aimed at increasing forestry canopy, increased safety and planting hurricane resistant tree species.	Floodplain Administrator/Building Official/Planning Department	Medium	Ongoing	Local Funds	TBD

	Town of Silverhill Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more	than five years Funding Source	Estimated Cost			
4.4	Beach and Dune Protection/Renourishment. Protect beaches a programs.	and dunes from coastal ar	nd man-made erosio	n and implement	renourishme	nt			
4.4.1	Restore and protect wetlands to enhance stormwater drainage.	Planning Department	Medium	Long-Range	Local Funds	TBD			
4.5	<u>Water Resources Conservation Programs.</u> Protect water qualit uninterrupted potable water supplies.	y through water conserva	ation programs to m	itigate the effects	of droughts	and assure			
4.5.1	Enforce water use restrictions during periods of drought to conserve existing water supplies.	Local Government	Medium	Long-Range	TBD	TBD			
5	Goal for Structural Projects. Apply engineered structural modi damaging impacts of hazards, where feasible, cost effective, as	•		tructure to reduce	the potentia	ally			
5.1	Drainage System Maintenance. Improve maintenance program	s for streams and drainag	ge ways.						
5.1.1	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Planning Department	Medium	Long-Range	Local Funds	TBD			
5.2	Reservoirs and Drainage System Improvements. Control floodir feasible, such as levees/floodwalls, diversions, channel modification				med cost effe	ctive and			
5.2.1	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Floodplain Administrator, Street Department, Local Government	Medium	Long-Range	TBD	TBD			
5.3	Community Shelters and Safe Rooms. Provide shelters from na	atural hazards for the safe	ety of community res	sidents.					
5.3.1	Ensure the inclusion of storm shelters and/or safe rooms in public buildings such as schools and multi-purpose community centers.	City Building Official	High	Short-Range	FEMA HMA Grant	TBD			

	Town of Silverhill Community Action Program									
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more	than five years Funding Source	Estimated Cost				
5.3.2	Pursue grand funds to establish a program for subsidizing safe room and storm shelter construction in appropriate locations and facilities.	City Building Official	High	Short-Range	FEMA HMA Grant	TBD				
5.3.3	Encourage the construction of safe rooms in new and existing homes and buildings.	City Building Official	High	Short-Range	FEMA HMA Grant	TBD				

A.14 Spanish Fort Community Action Program

	City of Spanish Fort Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1	Goal for Prevention. Manage the development of land and build	dings to minimize risks of	loss due to natural	hazards.					
1.1	Comprehensive Plans and Smart Growth. Establish an active c sustainable community development.	omprehensive planning p	rogram that is cons	istent with Smart (Growth princ	ciples of			
1.1.1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.	Planning Department	High	Short- Range	Local Funds	\$60,000			
1.1.2	Integrate the findings and recommendations of this plan into comprehensive plan amendments for jurisdictions with active comprehensive planning programs.	Planning Department	Medium	Mid-Range	Local Funds	TBD			
1.1.3	Prepare a five-year capital improvements plan (CIP) to include capital projects that implements the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	City Council	Medium	Mid-Range	Local Funds	TBD			
1.2	Geographic Information Systems (GIS). Maintain a comprehens facilities inventories.	sive database of hazards l	ocations, socio eco	nomic data, infras	tructure, and	d critical			

	City of Spanish Fort Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.2.1	Maintain a centralized, countywide natural hazards and risk assessment database in GIS that is accessible to local planners and emergency management personnel, including such data as, flood zones, geohazards, major drainages structures, dams/levees, hurricane surge areas, tornado tracks, disaster events and their extents, and a comprehensive inventory of critical facilities within all jurisdictions.	Baldwin County EMA	High	Short-Range	НМА	TBD			
1.2.2	Integrate FEMA HAZUS-MH applications for hazard loss estimates within local GIS program. Maintain up-to-date within GIS to apply the full loss estimation capabilities of HAZUS.	Planning Department	Medium	Mid-Range	Local Funds	TBD			
1.2.3	Mark depths of flooding and storm surge immediately after each event. Enter and maintain these historical records in GIS.	Planning Department	Medium	Mid-Range	Local Funds	TBD			
1.3	Planning Studies. Conduct special studies, as needed, to ident	ify hazard risks and mitig	ation measures.						
1.3.1	Carry out detailed planning and engineering studies for sub- basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Planning Department	Medium	Mid-Range	Local Funds	TBD			
1.3.2	Identify existing culturally or socially significant structures and critical facilities within Baldwin County that have the most potential for losses from natural hazard events and identify needed structural upgrades.	Planning Department	Medium	Mid-Range	Local Funds	TBD			
1.3.3	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	Planning Department	Medium	Mid-Range	Local Funds	TBD			

	City of Spanish Fort Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.3.4	Inventory and map existing fire hydrants throughout the county, and identify areas in need of new fire hydrants.	Fire Department	High	Short-Range	Local Fund	TBD			
1.3.5	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	Public Works Department	Medium	Mid- Range/Ongoing	FEMA HMA Grant	TBD			
1.4	20ning. Establish effective zoning controls, where applicable, to vulnerable land areas to discourage environmentally incompatible land use and development.								
1.4.1	Consider large lot size restriction on flood prone areas designated on Flood Insurance Rate Maps.	Planning Department	Medium	Mid-Range	Local Funds	TBD			
1.4.2	Evaluate additional land use restrictions within designated flood zones, such as prohibition of storage of buoyant materials, storage of hazardous materials, restrictive development of flood ways, among others.	Planning Department	Medium	Mid-Range	Local Funds	TBD			
1.4.3	Require delineation of flood plain fringe, floodways, and wetlands on all plans submitted with a permit for development within a flood plain.	Planning Department	Medium	Mid-Range	Local Funds	TBD			
1.4.4	Enact local ordinance that requires community storm shelters within sizeable mobile home parks and subdivisions.	City Council	Low	Long-Range	Local Funds	TBD			
1.5	Open Space Preservation. Minimize disturbances of natural lar natural features such as open space for parks, conservation are			ff through regulation	s that main	tain critical			
1.5.1	Examine regulatory options and feasibility of requiring open space areas for recreation, landscaping, and drainage control.	Planning Department	Medium	Long-Range	Local Funds	TBD			
1.6	Flood Plain Management Regulations. Effectively administer at	nd enforce local floodplair	n management reg	ulations.					

	City of Spanish Fort Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.6.1	Train local flood plain managers through programs offered by the State Flood Plain Coordinator or FEMA's training center in Emmitsburg, Maryland.	City Council	High	Short-Range	Local Funds	TBD			
1.6.2	Maintain a library of technical assistance and guidance materials to support the local floodplain manager.	Floodplain Manager	High	Short-Range	Local Funds	TBD			
1.6.3	Promote the adoption of uniform flood hazard prevention ordinance among all NFIP communities. The ordinance standards should encourage flood plain management that maintains the natural and beneficial functions of flood plains by maximizing the credits that could be obtained for "Higher Regulatory Standards" under the Community Rating System (CRS) Program.	Floodplain Manager	High	Short-Range	FEMA HMA Grant	TBD			
1.6.4	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association Flood Plain Managers and encourage active participation.	Floodplain Manager	High	Short-Range	Local Funds	TBD			
1.6.5	Participate in the "Turn Around, Don't Drown" program by purchasing and installing signs in known flash flood overpass locations.	Floodplain Manager	Medium	Mid-Range	Local Funds	TBD			
1.7	Building and Technical Codes. Review local codes for effective damages.	eness of standards to pro	tect buildings and in	frastructure from	natural haza	rd			
1.7.1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	Building Official	High	Ongoing	Local Funds	TBD			

	City of Spanish Fort Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.7.2	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of "hurricane clips."	Building Official	High	Ongoing	Local Funds	TBD			
1.7.3	Relocate existing utility lines underground, where feasible and cost effective, and require, through local subdivision and land development regulations, the placement of all new utility lines underground for large residential subdivisions and commercial developments.	Planning Department	High	Ongoing	Local Funds	TBD			
1.7.4	Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters.	Building Official	High	Ongoing	Local Funds	TBD			
1.7.5	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	Building Official	High	Ongoing	Local Funds	TBD			
1.7.6	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	Planning Department	High	Ongoing	FEMA HMA Grant	TBD			
1.8	<u>Landscape Ordinances.</u> Establish minimum standards for plan aesthetics.	ting areas for trees and ve	egetation to reduce	storm water runoff	and improv	e urban			
1.8.1	Review and revise as necessary, landscaping standards for parking lots that reduce the size of impervious surfaces and encourage natural infiltration of rainwater.	Planning Department	Medium	Long-Range	Local Funds	TBD			
1.8.2	Establish ordinances to help mitigate fire hazards related to fuel buildup due to recent hurricanes, by raising tree canopies close to homes, thinning forests near urban areas, and removing trees that are tooclose to homes.	City Council	Low	Long-Range	Local Funds	TBD			

	City of Spanish Fort Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.8.3	Establish ordinance for the planting of new urban forests or replacement of hurricane damaged urban forests using hurricane resistant tree species to mitigate wind and erosion problems, help beautify and promote healthy urban environments and reduce heating, cooling and storm runoff costs.	City Council	Low	Long-Range	Local Funds	TBD			
1.9	Storm Water Management. Manage the impacts of land development on storm water runoff rates and to natural drainage systems.								
1.9.1	Promote the adoption/enforcement of storm water management regulations that maintain pre-development runoff rates.	Planning Department	Medium	Ongoing	Existing	TBD			
1.9.2	Develop, adopt and implement subdivision regulations that require proper storm water infrastructure design and construction.	Planning Department	Medium	Ongoing	Existing	TBD			
1.9.3	Establish urban forestry program to help mitigate storm water runoff common in areas with large impervious surfaces.	City Council	Low	Long-Range	Local Funds	TBD			
1.11	Community Rating System Program (CRS). Increase participat	ion of NFIP member com	nunities in the CRS	Program.					
1.11.1	Apply for/maintain membership in the CRS Program; continue to upgrade rating.	Floodplain Manager	Medium	Long-Range	Local Funds	TBD			
1.12	Critical Facilities Assessments. Perform assessments of critical facilities (hospitals, schools, fire and police stations, emergency operation centers, special needs housing, and others) to address building and site vulnerabilities to hazards, identify damage control and retrofit measures to reduce vulnerability to damage and disruption of operations during severe weather and disaster events.								
1.12.1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	Planning Department	Medium	Long-Range	FEMA HMA Grant	TBD			

	City of Spanish Fort Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.12.2	Conduct wildfire vulnerability assessments, including the vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive inventory to identify high and moderate wildfire risk areas.	Building Official	Medium	Long-Range	Local Funds	TBD			
2	2 Goal for Property Protection. Protect structures and their occupants and contents from the damaging effects of natural hazards.								
2.1	Building Relocation. Relocate buildings out of hazardous floor	l areas to safeguard again	st damages and est	ablish permanent	open space.				
2.1.1	Pursue FEMA grant funds to relocate buildings and infrastructure out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	Building Official	High	Short-Range	FEMA HMA Grant	TBD			
2.2	Acquisition. Acquire flood prone buildings and properties and	establish permanent oper	n space.						
2.2.1	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD			
2.2.2	Utilize the recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD			
2.3	Building Elevation. Elevate buildings in hazardous flood areas	to safeguard against dam	ages						

	City of Spanish F	ort Community Action Pro	ogram			
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost
2.3.1	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD
2.3.2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD
2.4	Flood Proofing. Encourage flood proofing of buildings in hazar	rdous flood areas to safeg	juard against damag	jes.		
2.4.1	Pursue FEMA grant funds for flood proofing pre-FIRM non- residential buildings, where feasible.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD
2.5	<u>Building Retrofits</u> . Retrofit vulnerable buildings to protect again severe storms, and earthquakes.	nst natural hazards damaç	ges, including floodi	ng, high winds, tor	rnadoes, hu	rricanes,
2.5.1	Pursue FEMA grant funds to retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	Floodplain Manager	Medium	Ongoing	FEMA HMA Grant	TBD
2.5.2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD
2.6	Hazard Insurance Awareness. Increase public awareness of flo sinkhole, and other damages typically not covered by standard	-		equired for earthq	uake, lands	lide,
		property protection polic	ies.			
2.6.1	Promote the purchase of insurance coverage by property owners and renters for flood damages in high-risk areas.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD

	City of Spanish Fort Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years		Estimated Cost		
2.7	<u>Critical Facilities Protection</u> . Protect critical facilities from pote relocations of existing facilities located in high-risk zones or co				_	trofits or		
2.7.1	Install lightning and/or surge protection on existing critical facilities.	Building Official	High	Ongoing	Local Funds	TBD		
2.8	Back Up Power. Ensure uninterrupted power supply to critical facilities during emergency events.							
2.8.1	Pursue grant funding for the installation of back-up power generators for critical facilities.	Building Official	High	Ongoing	FEMA HMA Grant	TBD		
3	Goal for Public Education and Outreach. Educate and inform the life and property.	ne public about the risks o	of hazards and the te	echniques availabl	e to reduce	threats to		
3.2	Outreach Projects. Conduct regular public events to inform the	public of hazards and m	itigation measures.					
3.2.1	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Planning Department	Medium	Ongoing	Local Funds	TBD		
3.2.2	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	Planning Department	Medium	Mid-Range	Local Funds	TBD		
3.2.3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	Building Official	Medium	Long-Range	Local Funds	TBD		

	City of Spanish Fort Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
3.2.4	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Local Floodplain Manger	Medium	Ongoing	Local Funds	TBD			
3.3	Real Estate Disclosure. Encourage real estate agents to disclose flood plain location for property listings.								
3.3.2	Consider the enactment of a local ordinance or state law to require floodplain location disclosure when a property is listed for sale.	Local Floodplain Manger	Medium	Long-Range	Local Funds	TBD			
3.4	<u>Library.</u> Use local library resources to educate the public on hazard	I risks and mitigation alterna	atives.						
3.4.1	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.	Local Floodplain Manger	Medium	Long-Range	Local Funds	TBD			
3.5	Education Programs. Use schools and other community education	n resources to conduct prog	rams related to hazar	d risks and mitigation	on measures.				
3.5.1	Distribute hazard mitigation brochures to students through area schools.	Local Floodplain Manger	Medium	Long-Range	Local Funds	TBD			
3.6	<u>Community Hazard Mitigation Plan Distribution</u> . Distribute the businesses, and residents, using all available means of publication.		elected officials, into	erested agencies a	ind organiza	tions,			
3.6.1	Distribute the 2020 plan to local officials, stakeholders, and interested individuals through internet download.	Baldwin County EMA	High	Short-Range	Existing	TBD			
3.7	<u>Technical Assistance</u> . Make qualified local government staff av	vailable to advise property	owners on various	hazard risks and r	nitigation al	ternatives.			
3.7.1	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Local Floodplain Manger	High	Ongoing	Local Funds	TBD			

	City of Spanish Fort Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
3.8	Mass Media Relations. Utilize all available mass media, such a on-line social networking to increase public awareness and dis				s, video sha	ring, and			
3.8.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Local Government	Medium	Ongoing	Local Funds	TBD			
3.9	Weather Radios. Improve public access to weather alerts.								
3.9.1	Promote the use of weather radios in households and businesses.	Planning Department	Medium	Mid-Range	Local Funds	TBD			
3.9.2	Promote the use of weather radios in households and businesses.	Planning Department	Medium	Mid-Range	Local Funds	TBD			
3.9.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	Local Government	High	Short-Range	Existing	TBD			
3.10	<u>Disaster Warning</u> . Improve public warning systems.								
3.10.1	Establish an ALERT flood warning system at strategic locations in the county, including at a minimum, sensors that provide real-time access to stream flow, stream stage, and precipitation data.	Local Floodplain Manger	Medium	Long-Range	Local Funds	TBD			
3.10.2	Ensure that the ALERT warning system links data into GIS with the ability to use measured and forecasted rainfall to predict potential flood levels and create real-time maps of flooded areas.	Local Floodplain Manger	Medium	Long-Range	Local Funds	TBD			
3.10.3	Evaluate the feasibility of a shared tri-county ALERT system covering Baldwin, Escambia, and Mobile counties.	Local Floodplain Manger	Medium	Long-Range	Local Funds	TBD			

	City of Spanish Fort Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
3.10.5	Upgrade critical communications infrastructure.	Local Floodplain Manger	Medium	Long-Range	Local Funds	TBD			
4	Goal for Natural Resources Protection. Preserve and restore the beneficial functions of the natural environment to promote sustainable community development that balances the constraints of nature with the social and economic demands of the community.								
4.1	Open Space Easements and Acquisitions. Acquire easements and fee-simple ownership of environmentally beneficial lands, such as hillsides, flood plains, and wetlands to assure permanent protection of these natural resources.								
4.1.1	Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.	City Council	Low	Long-Range	Local Funds	TBD			
4.2	River/Stream Corridor Restoration and Protection. Restore and	protect river and stream	corridors within are	as.					
4.2.1	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Planning Department	Medium	Mid-Range	Local Funds	TBD			
4.2.2	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	Planning Department	Medium	Long-Range	Local Funds	TBD			
4.3	Urban Forestry Programs. Maintain a healthy forest that can help	mitigate damaging impacts	s of flooding, erosion,	landslides and wild	fires within u	rban areas.			
4.3.1	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).	Local Floodplain Manger	Medium	Ongoing	Local Funds	TBD			
4.3.2	Increase overall green spaces in cities by planting hurricane resistant trees with site and location taken into consideration.	City Council	Low	Long-Range	Local Funds	TBD			

	City of Spanish F	ort Community Action Pro	ogram					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
4.3.3	Develop an urban forestry management plan to ensure a progressive urban forestry program aimed at increasing forestry canopy, increased safety and planting hurricane resistant tree species.	City Council	Low	Long-Range	Local Funds	TBD		
4.4	Beach and Dune Protection/Renourishment. Protect beaches and dunes from coastal and man-made erosion and implement renourishment programs.							
4.4.1	Restore and protect wetlands to enhance storm water drainage.	Local Floodplain Manger	Medium	Ongoing	Local Funds	TBD		
4.4.2	Develop a coastal renourishment program	Local Floodplain Manger	Medium	Long-Range	Local Funds	TBD		
4.5	<u>Water Resources Conservation Programs.</u> Protect water qualit uninterrupted potable water supplies.	y through water conserva	tion programs to mi	tigate the effects of	of droughts a	and assure		
4.5.1	Enforce water use restrictions during periods of drought to conserve existing water supplies.	City Council	Low	Ongoing	Local Funds	TBD		
4.5.2	Prepare and implement standard operating procedures and guidelines for drainage system maintenance. Develop a coastal renourishment program	Local Floodplain Manger	Medium	Long-Range	Local Funds	TBD		
5	Goal for Structural Projects. Apply engineered structural modification damaging impacts of hazards, where feasible, cost effective, are	d environmentally suitab	le.	tructure to reduce	the potentia	illy		
5.1	Drainage System Maintenance. Improve maintenance program	s for streams and drainag	e ways.					
5.1.1	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Building Official	Medium	Long-Range	Local Funds	TBD		

	City of Spanish Fort Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
5.2	Reservoirs and Drainage System Improvements. Control flooding through reservoirs and other structural improvements, where deemed cost effective and feasible, such as levees/floodwalls, diversions, channel modifications, dredging, drainage modifications, and storm sewers.								
5.2.1	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Public Works Department	Medium	Mid-Range	FEMA HMA Grant	TBD			
5.3	Community Shelters and Safe Rooms. Provide shelters from na	ntural hazards for the safe	ty of community res	idents.					
5.3.1	Ensure the inclusion of storm shelters and/or safe rooms in public buildings such as schools and multi-purpose community centers.	Planning Department	High	Short-Range	FEMA HMA Grant	TBD			
5.3.2	Encourage the construction of safe rooms in new and existing homes and buildings.	Planning Department	High	Short-Range	Local Funds	TBD			
5.3.3	Encourage the construction of safe rooms in new and existing homes and buildings.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD			

A.15 Summerdale Community Action Program

	Town of Summerdale Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1	Goal for Prevention. Manage the development of land and build	dings to minimize risks of	loss due to natural	hazards.					
1.1	Planning Studies. Conduct special studies, as needed, to ident methodologies, and increase /maintain hazards database, socio	-		•					
1.1.1	Identify existing culturally or socially significant structures and critical facilities within Baldwin County that have the most potential for losses from natural hazard events and identify needed structural upgrades.	Planning and Zoning Department	Medium	Mid-Range	Local Funds	TBD			
1.1.2	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	Planning and Zoning Department	Medium	Mid-Range	Local Funds	TBD			
1.1.3	Inventory and map existing fire hydrants throughout the community, and identify areas in need of new fire hydrants.	Fire Department, Planning & Zoning Department	Medium	Mid-Range	TBD	TBD			
1.1.4	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	Public Works Department	Medium	Mid- Range/Ongoing	FEMA HMA Grant	TBD			
1.4	Zoning. Establish effective zoning controls, where applicable, development.	to vulnerable land areas to	o discourage enviro	nmentally incompa	atible land u	se and			
1.5	Open Space Preservation. Minimize disturbances of natural lar natural features such as open space for parks, conservation are			through regulation	s that maint	tain critical			

	Town Of Summerdale Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
1	Goal for Prevention. Manage the development of land and build	dings to minimize risks of	loss due to natural	hazards.				
1.1	Comprehensive Plans and Smart Growth. Establish an active of sustainable community development.	comprehensive planning p	rogram that is cons	istent with Smart (Growth princ	iples of		
1.1.3	Prepare a five-year capital improvements plan (CIP) to include capital projects that implements the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	Planning Department	Medium	Mid-Range	Local Funds	TBD		
1.2	Geographic Information Systems (GIS). Maintain a comprehens facilities inventories.	sive database of hazards l	ocations, socio eco	nomic data, infras	tructure, and	l critical		
1.2.3	Mark depths of flooding and storm surge immediately after each event. Enter and maintain these historical records in GIS.	Planning Department	Medium	Mid-Range	Local Funds	TBD		
1.3	Planning Studies. Conduct special studies, as needed, to ident	ify hazard risks and mitig	ation measures.					
1.3.1	Carry out detailed planning and engineering studies for sub- basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Planning Department	Medium	Mid-Range	FEMA HMA Grant	TBD		
1.5	Open Space Preservation. Minimize disturbances of natural lar natural features such as open space for parks, conservation are			through regulation	s that maint	ain critical		
1.5.1	Examine regulatory options and feasibility of requiring open space areas for recreation, landscaping, and drainage control.	Planning Department	Medium	Long-Range	Local Funds	TBD		
1.6	Flood Plain Management Regulations. Effectively administer at	nd enforce local floodplair	n management regul	lations.				

	Town of Summerdale Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.6.4	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association Flood Plain Managers and encourage active participation.	Floodplain Manager	High	Short-Range	Local Funds	TBD			
1.6.5	Participate in the "Turn Around, Don't Drown" program by purchasing and installing signs in known flash flood overpass locations.	Floodplain Manager/Emergency Management Coordinator	High	Short-Range	Local Funds	TBD			
1.7	Building and Technical Codes. Review local codes for effective damages.	eness of standards to prot	ect buildings and in	frastructure from	natural haza	rd			
1.7.3	Relocate existing utility lines underground, where feasible and cost effective, and require, through local subdivision and land development regulations, the placement of all new utility lines underground for large residential subdivisions and commercial developments.	Planning Department	High	Ongoing	Local Funds	TBD			
1.7.6	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	Planning Department	High	Ongoing	FEMA HMA Grant	TBD			
1.8	<u>Landscape Ordinances.</u> Establish minimum standards for plan aesthetics.	ting areas for trees and ve	egetation to reduce	storm water runof	and improv	e urban			
1.8.1	Review and revise as necessary, landscaping standards for parking lots that reduce the size of impervious surfaces and encourage natural infiltration of rainwater.	Planning Department	Medium	Long-Range	Local Funds	TBD			

	Town of Summerdale Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
1.8.3	Establish ordinance for the planting of new urban forests or replacement of hurricane damaged urban forests using hurricane resistant tree species to mitigate wind and erosion problems, help beautify and promote healthy urban environments and reduce heating, cooling and storm runoff costs.	Floodplain Manager	Medium	Long-Range	Local Funds	TBD		
1.9	Storm Water Management. Manage the impacts of land develop	oment on storm water run	off rates and to natu	ral drainage syste	ms.			
1.9.3	Establish urban forestry program to help mitigate storm water runoff common in areas with large impervious surfaces.	Planning Department	Medium	Ongoing	Existing	TBD		
1.10	Community Rating System Program (CRS). Increase participation	ion of NFIP member comn	nunities in the CRS I	Program.				
1.12	<u>Critical Facilities Assessments.</u> Perform assessments of critical special needs housing, and others) to address building and site vulnerability to damage and disruption of operations during seconds.	vulnerabilities to hazard	s, identify damage c		•	· ·		
1.12.1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	Building Official	Medium	Ongoing	Local	TBD		
2	Goal for Property Protection. Protect structures and their occup	pants and contents from t	he damaging effects	of natural hazard	s.			
2.1	Building Relocation. Relocate buildings out of hazardous floor	l areas to safeguard again	st damages and est	ablish permanent	open space.			
2.2	Acquisition. Acquire flood prone buildings and properties and	establish permanent open	space.					
2.2.1	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD		

	Town of Summerdale Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
2.2.2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD		
2.3	2.3 <u>Building Elevation</u> . Elevate buildings in hazardous flood areas to safeguard against damages.							
2.3.1	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD		
2.3.2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD		
2.4	Flood Proofing. Encourage flood proofing of buildings in hazar	dous flood areas to safeg	juard against damag	jes.				
2.4.1	Pursue FEMA grant funds for flood proofing pre-FIRM non-residential buildings, where feasible.	Floodplain Manager	Medium	Ongoing	FEMA HMA Funds	TBD		
2.5	<u>Building Retrofits</u> . Retrofit vulnerable buildings to protect again severe storms, and earthquakes.	nst natural hazards damag	ges, including floodi	ng, high winds, tor	rnadoes, hur	ricanes,		
2.5.1	Pursue FEMA grant funds to retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD		

	Town of Summerdale Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
2.5.2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD			
2.6	Hazard Insurance Awareness. Increase public awareness of flood insurance and special riders that may be required for earthquake, landslide, sinkhole, and other damages typically not covered by standard property protection policies.								
2.6.1	Promote the purchase of insurance coverage by property owners and renters for flood damages in high-risk areas.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD			
2.7	<u>Critical Facilities Protection.</u> Protect critical facilities from pote relocations of existing facilities located in high-risk zones or co	•			_	trofits or			
2.7.1	Install lightning and/or surge protection on existing critical facilities.	Building Official	High	Ongoing	Local Funds	TBD			
2.7.2	Conduct ongoing tree trimming programs along power lines.								
2.8	Back Up Power. Ensure uninterrupted power supply to critical t	facilities during emergenc	y events.						
2.8.1	Pursue grant funding for the installation of back-up power generators for critical facilities.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD			
3	Goal for Public Education and Outreach. Educate and inform the life and property.			echniques availabl	e to reduce t	threats to			
3.1	Outreach Projects. Conduct regular public events to inform the	public of hazards and mi	tigation measures.						
3.1.1	Publicize the availability of FIRM information to real estate agencies, builders, developers, and homeowners.	Floodplain Administrator	Medium	On-going	TBD	TBD			

	Town of Summerdale Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
3.1.2	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Planning Department	Medium	Ongoing	Local Funds	TBD			
3.2	3.2 Community Hazard Mitigation Plan Distribution. Distribute the hazard mitigation plan to elected officials, interested agencies and organizations, businesses, and residents, using all available means of publication and distribution.								
3.2.1	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Local Government	Medium	Ongoing	Local Funds	TBD			
3.2.2	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	Local Government	Medium	Ongoing	Local Funds	TBD			
3.2.3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	Local Government	Medium	Ongoing	Local Funds	TBD			
3.2.4	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Local Government	Medium	Ongoing	Local Funds	TBD			
3.3	<u>Technical Assistance</u> . Make qualified local government staff av	vailable to advise property	owners on various	hazard risks and r	nitigation alt	ternatives.			
3.3.1	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Local Floodplain Manger	High	Ongoing	Local Funds	TBD			

	Town of Summerdale Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
3.3.2	Consider the enactment of a local ordinance or state law to require floodplain disclosure when a property is for sale.	Local Government	Medium	Ongoing	Local Funds	TBD			
3.4	Mass Media Relations. Utilize all available mass media, such as on-line social networking to increase public awareness and dis				s, video shar	ing, and			
3.4.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Mayor and Council	Medium	Ongoing	Local Funds	TBD			
3.5	Weather Radios. Improve public access to weather alerts.								
3.5.1	Distribute hazard mitigation brochures to students through area schools	Local Government	Medium	Ongoing	Local Funds	TBD			
3.5.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	Mayor and Council	High	Short-Range	Existing	TBD			
3.6	Community Hazard Mitigation Plan Distribution. Distribute the businesses, and residents, using all available means of publications.	•	elected officials, into	erested agencies a	and organiza	tions,			
3.6.1	Distribute the 2020 plan to local officials, stakeholders, and interested individuals through internet download.	Baldwin County EMA	High	Short-Range	Existing	TBD			
37	Technical Assistance. Make qualified local government staff a	vailable to advise propert	y owners on various	hazard risks and	mitigation al	ternatives.			
37.1	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Building Department	Medium	Ongoing	Local Funds	TBD			
3.8	Mass Media Relations. Utilize all available mass media, such as on-line social networking to increase public awareness and dis				s, video shar	ing, and			

	Town of Summerdale Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more	Funding Source	Estimated Cost			
3.8.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Local Government	Medium	Ongoing	Local Funds	TBD			
3.9	Weather Radios. Improve public access to weather alerts.								
3.9.1	Promote the use of weather radios in households and businesses.	Local Government	High	Short-Range	Existing	TBD			
3.9.2	Require the installation of weather radios in all public buildings and places of public assembly.	Local Government	High	Short-Range	Existing	TBD			
3.9.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	Local Government	High	Short-Range	Existing	TBD			
3.10	<u>Disaster Warning</u> . Improve public warning systems.								
3.10.1	Establish an ALERT flood warning system at strategic locations in the county, including at a minimum, sensors that provide real-time access to stream flow, stream stage, and precipitation data.	Local Government	High	Mid-Range	FEMA HMA Grant	TBD			
3.10.2	Ensure that the ALERT warning system links data into GIS with the ability to use measured and forecasted rainfall to predict potential flood levels and create real-time maps of flooded areas.	Local Government	High	Mid-Range	FEMA HMA Grant	TBD			
3.10.4	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	Local Government	High	Mid-Range	FEMA HMA Grant	TBD			
3.10.5	Upgrade critical communications infrastructure.	Local Government	High	Long-Range	TBD	TBD			
4	Goal for Natural Resources Protection. Preserve and restore th development that balances the constraints of nature with the so			•	stainable co	mmunity			

	Town of Summerdale Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more	than five years Funding Source	Estimated Cost			
4	4 Goal for Natural Resources Protection. Preserve and restore the beneficial functions of the natural environment to promote sustainable community development that balances the constraints of nature with the social and economic demands of the community.								
4.1	Open Space Easements and Acquisitions. Acquire easements a and wetlands to assure permanent protection of these natural resou		environmentally bene	eficial lands, such a	s hillsides, flo	od plains,			
4.1.1	Increase open space acquisitions through the FEMA HMA Grant Pr	ograms and other flood plair	n acquisition efforts.						
4.2	River/Stream Corridor Restoration and Protection. Restore and	d protect river and stream	corridors within are	eas.					
4.2.1	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Floodplain Administrator/Building Official	Medium	Ongoing	Local Funds	TBD			
4.2.2	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	City Building Official	Medium	Long-Range	Local Funds	TBD			
4.3	<u>Urban Forestry Programs.</u> Maintain a healthy forest that can hurban areas.	elp mitigate the damaging	impacts of flooding	g, erosion, landsli	des, and wild	I fires within			
4.3.1	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).	Local Government	Low	Long-Range	TBD	TBD			
4.3.2	Increase overall green spaces in cities by planting hurricane resistant trees with site and location taken into consideration.	Floodplain Administrator/Building Official/Planning Department	Medium	Ongoing	TBD	TBD			
4.3.3	Develop an urban forestry management plan to ensure a progressive urban forestry program aimed at increasing forestry canopy, increased safety and planting hurricane resistant tree species.	Floodplain Administrator/Building Official/Planning Department	Medium	Ongoing	Local Funds	TBD			

	Town of Summerdale Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more	than five years Funding Source	Estimated Cost			
4.4	Beach and Dune Protection/Renourishment. Protect beaches a programs.	and dunes from coastal a	nd man-made erosio	on and implement	renourishme	ent			
4.4.1	Restore and protect wetlands to enhance stormwater drainage.	Planning Department	Medium	Long-Range	Local Funds	TBD			
4.5	<u>Water Resources Conservation Programs.</u> Protect water quali- uninterrupted potable water supplies.	ty through water conserva	ation programs to m	itigate the effects	of droughts	and assure			
4.5.1	Enforce water use restrictions during periods of drought to conserve existing water supplies.	Local Government	Medium	Long-Range	TBD	TBD			
5	Goal for Structural Projects. Apply engineered structural modification damaging impacts of hazards, where feasible, cost effective, and			structure to reduce	the potentia	ally			
5.1	Drainage System Maintenance. Improve maintenance program	s for streams and drainag	ge ways.						
5.1.1	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Planning Department	Medium	Long-Range	Local Funds	TBD			
5.2	Reservoirs and Drainage System Improvements. Control flooding feasible, such as levees/floodwalls, diversions, channel modifications.				med cost effe	ective and			
5.2.1	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Floodplain Administrator, Street Department, Local Government	Medium	Long-Range	TBD	TBD			
5.3	Community Shelters and Safe Rooms. Provide shelters from na	atural hazards for the safe	ety of community re	sidents.					
5.3.1	Ensure the inclusion of storm shelters and/or safe rooms in public buildings such as schools and multi-purpose community centers.	City Building Official	High	Short-Range	FEMA HMA Grant	TBD			

	Town of Summerdale Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more	than five years Funding Source	Estimated Cost			
5.3.2	Pursue grand funds to establish a program for subsidizing safe room and storm shelter construction in appropriate locations and facilities.	City Building Official	High	Short-Range	FEMA HMA Grant	TBD			
5.3.3	Encourage the construction of safe rooms in new and existing homes and buildings.	City Building Official	High	Short-Range	FEMA HMA Grant	TBD			

A.16 Baldwin County Board of Education Community Action Program

	Baldwin County Board of Education Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
1								
1.1	Comprehensive Plans and Smart Growth. Establish an active comprehensive planning program that is consistent with Smart Growth principles of sustainable community development.							
1.1.1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.	Baldwin County EMA/ Planning Department / Floodplain Administrator/County Engineer-Highway Department	High	Mid- Range/Ongoing	Local Funds	TBD		
1.1.2	Integrate the findings and recommendations of this plan into comprehensive plan amendments for jurisdictions (Baldwin County Unincorporated with active comprehensive planning programs.	Baldwin County EMA/ Planning Department	Medium	Mid-Range	Local Funds	TBD		
1.1.3	Prepare a five-year capital improvements plan (CIP) to include capital projects that implements the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	Baldwin County EMA/ Planning Department / Floodplain Administrator/County Engineer-Highway Department	Medium	Mid-Range	Local Funds	TBD		

	Baldwin County Board of Education Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.1.4	Prepare a floodplain management plan.	Floodplain Administrator	High	Short-Range	HMA/Local	TBD			
1.2	Geographic Information Systems (GIS). Maintain a comprehensifacilities inventories.	sive database of hazards I	ocations, socio eco	onomic data, infra	structure, and	d critical			
1.2.1	Maintain a centralized, countywide natural hazards and risk assessment database in GIS that is accessible to local planners and emergency management personnel, including such data as, flood zones, geohazards, major drainages structures, dams/levees, hurricane surge areas, tornado tracks, disaster events and their extents, and a comprehensive inventory of critical facilities within all jurisdictions.	Baldwin County EMA/ GIS Staff in the CIS, Planning, & Highway Departments/ Engineering Department	Medium	Mid- Range/Ongoing	HMA/Local	TBD			
1.2.2	Integrate FEMA HAZUS-MH applications for hazard loss estimates within local GIS program. Maintain up-to-date within GIS to apply the full loss estimation capabilities of HAZUS.	GIS Staff in the CIS, Planning, & Highway Departments (May also include Baldwin County 9-1-1 GIS Manager	Medium	Mid- Range/Ongoing	Local	TBD			
1.2.3	Mark depths of flooding and storm surge immediately after each event. Enter and maintain these historical records in GIS.	Floodplain Administrator/County Engineer-Highway Department/ Baldwin County EMA	High	Short-Range	Local	TBD			
1.3	Planning Studies. Conduct special studies, as needed, to ident	tify hazard risks and mitig	ation measures.						

	Baldwin County Board of Education Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
1.3.1	Carry out detailed planning and engineering studies for sub- basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Floodplain Administrator / County Engineer-Highway Dept/Planning Department/Baldwin County EMA	Medium	Mid- Range/Ongoing	НМА	TBD			
1.3.2	Identify existing culturally or socially significant structures and critical facilities within Baldwin County that have the most potential for losses from natural hazard events and identify needed structural upgrades.	Planning Department/ Building Department	Medium	Mid-Range	Local Funds	TBD			
1.3.3	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	Planning Department/ Building Department	Medium	Mid-Range	Local Funds	TBD			
1.3.4	Inventory and map existing fire hydrants throughout the county, and identify areas in need of new fire hydrants.	Planning Department/ Building Department	Medium	Mid-Range	Local Funds	TBD			
1.3.5	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	Planning Department/ Building Department	Medium	Mid- Range/Ongoing	НМА	TBD			
1.4	Zoning. Establish effective zoning controls, where applicable, development.	to vulnerable land areas to	o discourage enviro	onmentally incomp	oatible land u	se and			
1.4.1	Consider large lot size restriction on flood prone areas designated on Flood Insurance Rate Maps.	Planning Department/ Building Department	Medium	Mid-Range	Local Funds	TBD			

	Baldwin County Board of Education Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
1.4.2	Evaluate additional land use restrictions within designated flood zones, such as prohibition of storage of buoyant materials, storage of hazardous materials, and restrictive development of flood ways, among others.	Planning Department/ Building Department	Medium	Mid-Range	Local Funds	TBD		
1.4.3	Require delineation of flood plain fringe, floodways, and wetlands on all plans submitted with a permit for development within a flood plain.	Planning Department/ Building Department	Medium	Mid-Range	Local Funds	TBD		
1.4.4	Enact local ordinance that requires community storm shelters within sizeable mobile home parks and subdivisions.							
1.5	Open Space Preservation. Minimize disturbances of natural lar natural features such as open space for parks, conservation are			through regulation	ns that main	tain critical		
1.5.1	Examine regulatory options and feasibility of requiring open space areas for recreation, landscaping, and drainage control.	Planning Department/ Building Department/ Engineering Department	Medium	Mid-Range	Local Funds	TBD		
1.6	Flood Plain Management Regulations. Effectively administer a	nd enforce local floodplair	n management regi	ulations.				
1.6.1	Train local flood plain managers through programs offered by the State Flood Plain Coordinator or FEMA's training center in Emmitsburg, Maryland.	County Commission	Medium	Mid-Range	Local Funds	TBD		
1.6.2	Maintain a library of technical assistance and guidance materials to support the local floodplain manager.	Floodplain Manager	Medium	Mid-Range	Local Funds	TBD		

	Baldwin County Board of	Education Community A	ction Program			
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost
1.6.3	Promote the adoption of uniform flood hazard prevention ordinance among all NFIP communities. The ordinance standards should encourage flood plain management that maintains the natural and beneficial functions of flood plains by maximizing the credits that could be obtained for "Higher Regulatory Standards" under the Community Rating System (CRS) Program.	Floodplain Manager	Medium	Mid-Range	FEMA HMA Grant	TBD
1.6.4	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association Flood Plain Managers and encourage active participation.	Floodplain Manager	Medium	Mid-Range	Local Funds	TBD
1.6.5	Participate in the "Turn Around, Don't Drown" program by purchasing and installing signs in known flash flood overpass locations.	Floodplain Manager	Medium	Mid-Range	Local Funds	TBD
1.6.6	Improve flood risk assessment by documenting high water marks post event, verification of FEMA's repetitive loss inventory and revising and updating regulatory floodplain maps.	Floodplain Manager	Medium	Short-Range	TBD	TBD
1.7	Building and Technical Codes. Review local codes for effective damages.	eness of standards to prot	l tect buildings and i	nfrastructure from	natural haza	rd
1.7.1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	Building Official	Medium	Mid-Range	Local Funds	TBD
1.7.2	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of "hurricane clips."	Building Official	Medium	Mid-Range	Local Funds	TBD

Baldwin County Board of Education Community Action Program							
Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost			
Building Official	Medium	Mid-Range	Local Funds	TBD			
Building Official	Medium	Mid-Range	Local Funds	TBD			
Planning Department/ Building Department	Medium	Mid-Range	FEMA HMA Grant	TBD			
anting areas for trees and v	egetation to reduc	e storm water runo	ff and improv	e urban			
Planning Department	Medium	Mid-Range	Local Funds	TBD			
lopment on storm water run	off rates and to na	tural drainage syst	ems.				
Planning Department	Medium	Ongoing	Existing	TBD			
e Planning Department	Medium	Ongoing	Existing	TBD			
Planning Department	Medium	Ongoing	Existing	TBD			
ation of NFIP member comr	nunities in the CRS	S Program.					
Floodplain Manager	High	Short-Range	Local Funds	TBD			
	Building Official Building Official Building Department/ Building Department Planning Department	Building Official Medium Building Department/ Building Department Medium Planning Department Medium	Building Official Medium Mid-Range Building Department Medium Mid-Range Building Department Medium Mid-Range Building Department Medium Mid-Range Planning Department Medium Ongoing Planning Department Medium Ongoing	Building Official Medium Mid-Range Local Funds Building Department Medium Mid-Range FEMA HMA Grant Planning Department Medium Mid-Range Local Funds Planning Department Medium Mid-Range FEMA HMA Grant Planning Department Medium Mid-Range Local Funds Planning Department Medium Mid-Range Elopment on storm water runoff rates and to natural drainage systems. Planning Department Medium Ongoing Existing Planning Department Medium Ongoing Existing			

	Baldwin County Board of Education Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
1.12	Critical Facilities Assessments. Perform assessments of critical facilities (hospitals, schools, fire and police stations, emergency operation centers, special needs housing, and others) to address building and site vulnerabilities to hazards, identify damage control and retrofit measures to reduce vulnerability to damage and disruption of operations during severe weather and disaster events.							
1.12.1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	Planning Department	Medium	Long-Range	FEMA HMA Grant	TBD		
1.12.2	Conduct wildfire vulnerability assessments, including the vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive inventory to identify high and moderate wildfire risk areas.	Fire Department	Medium	Mid-Range	Local Funds	TBD		
2	Goal for Property Protection. Protect structures and their occu	pants and contents from t	he damaging effect	s of natural hazar	ds.			
2.1	Building Relocation. Relocate buildings out of hazardous floor	d areas to safeguard again	st damages and es	tablish permanen	t open space.			
2.1.1	Pursue FEMA grant funds to relocate buildings and infrastructure out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	Building Official	Medium	Ongoing	FEMA HMA Grant	TBD		
2.2	Acquisition. Acquire flood prone buildings and properties and	establish permanent open	space.					
2.2.1	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Building Official	High	Short-Range	FEMA HMA Grant	TBD		
2.2.2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Building Official	High	Short-Range	TBD	TBD		

	Baldwin County Board of Education Community Action Program						
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost	
2.3	Building Elevation. Elevate buildings in hazardous flood areas	to safeguard against dam	age.				
2.3.1	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD	
2.3.2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD	
2.4	Flood Proofing. Encourage flood proofing of building in hazard	ous flood areas to safegu	ard against damag	es.			
2.4.1	Pursue FEMA grant funds for flood proofing pre-FIRM non-residential buildings, where feasible.	Building Official	High	Short-Range	FEMA HMA Grant	TBD	
2.5	2.5 <u>Flood Control Measures.</u> Construct small flood control measures to reduce/prevent flood damage.						
2.5.1	Examine use of minor structural projects (small berm or floodwalls) in areas that cannot be mitigated through non-structural mitigation techniques.	Building Official	Low	Long-Range	FEMA HMA Grant	TBD	
2.6	Building Retrofits. Retrofit vulnerable buildings to protect against natural hazards damages, including flooding, high winds, tornadoes, hurricanes, severe storms, and earthquakes.						

	Baldwin County Board of Education Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
2.6.1	Pursue FEMA grant funds to retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD		
2.6.2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	Floodplain Manager	Medium	Mid-Range	Local Funds	TBD		
2.7	Hazard Insurance Awareness. Increase public awareness of flood insurance and special riders that may be required for earthquake, landslide, sinkhole, and other damages typically not covered by standard property protection policies.							
2.7.1	Promote the purchase of insurance coverage by property owners and renters for flood damages in high-risk areas.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD		
2.7.2	Conduct ongoing tree trimming programs along power lines.							
2.8	<u>Critical Facilities Protection</u> . Protect critical facilities from pote relocations of existing facilities located in high-risk zones or co				_	trofits or		
2.8.1	Install lightning and/or surge protection on existing critical facilities.	Building Official	Medium	Mid-Range	Local Funds	TBD		
2.8.2	Conduct ongoing tree trimming programs along power lines							
2.9	Back Up Power. Ensure uninterrupted power supply to critical facil	ities during emergency ever	nts.					
2.9.1	Pursue grant funding for the installation of back-up power generators for critical facilities.	Baldwin County EMA	Medium	Mid-Range	FEMA HMA Grant	TBD		

	Baldwin County Board of Education Community Action Program						
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost	
3	Goal for Public Education and Outreach. Educate and inform the life and property.	ne public about the risks o	of hazards and the	techniques availat	ole to reduce	threats to	
3.1	Map Information. Increase public access to Flood Insurance Ra	ate Map (FIRM) information	n.				
3.1.1	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	Planning Department	Low	Mid-Range	Existing	TBD	
3.2	Outreach Projects. Conduct regular public events to inform the public of hazards and mitigation measures.						
3.2.1	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Planning Department	High	Short-Range	Local Funds	TBD	
3.2.2	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	Planning Department	High	Short-Range	Local Funds	TBD	
3.2.3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	Baldwin County EMA	High	Short-Range	Local Funds	TBD	
3.2.4	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Local Floodplain Manger	High	Short-Range	Local Funds	TBD	
3.3	Real Estate Disclosure. Encourage real estate agents to disclose	flood plain location for prop	erty listings.				

	Baldwin County Board of Education Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
3.3.2	Consider the enactment of a local ordinance or state law to require floodplain disclosure when a property is for sale.	Floodplain Manager	Medium	Mid-Range	Local Funds	TBD		
3.4	<u>Library.</u> Use local library resources to educate the public on hazard	d risks and mitigation alterna	atives.					
3.4.1	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.	Local Floodplain Manger	Medium	Long-Range	Local Funds	TBD		
3.5	Education Programs. Use schools and other community education	n resources to conduct prog	rams related to haza	ard risks and mitigat	ion measures			
3.5.1	Distribute hazard mitigation brochures to students through area schools.	Baldwin County EMA	High	Short-Range	Local Funds	TBD		
3.5.2	Educate homeowners about structural and non-structural retrofitting of vulnerable homes.	Baldwin County EMA	Low	Long-Range	Local Funds	TBD		
3.6	Community Hazard Mitigation Plan Distribution. Distribute the businesses, and residents, using all available means of publications.	•	elected officials, in	terested agencies	and organiza	itions,		
3.6.1	Distribute the 2020 plan to local officials, stakeholders, and interested individuals through internet download.	Baldwin County EMA	High	Short-Range	Existing	TBD		
3.7	Technical Assistance. Make qualified local government staff as	vailable to advise property	owners on various	s hazard risks and	mitigation al	ternatives.		
3.7.1	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Local Floodplain Manger	Medium	Short-Range	Local Funds	TBD		
3.8	Mass Media Relations. Utilize all available mass media, such a on-line social networking to increase public awareness and dis				ts, video sha	ring, and		

	Baldwin County Board of Education Community Action Program						
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost	
3.8.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Local Government	Medium	Ongoing	Local Funds	TBD	
3.9	Weather Radios. Improve public access to weather alerts.						
3.9.1	Promote the use of weather radios in households and businesses.	Local Government	High	Short-Range	Existing	TBD	
3.9.2	Require the installation of weather radios in all public buildings and places of public assembly.	Local Government	High	Short-Range	Existing	TBD	
3.9.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	Local Government	High	Short-Range	Existing	TBD	
3.10	<u>Disaster Warning</u> . Improve public warning systems.						
3.10.1	Establish an ALERT flood warning system at strategic locations in the county, including at a minimum, sensors that provide real-time access to stream flow, stream stage, and precipitation data.	Local Government	High	Mid-Range	FEMA HMA Grant	TBD	
3.10.2	Ensure that the ALERT warning system links data into GIS with the ability to use measured and forecasted rainfall to predict potential flood levels and create real-time maps of flooded areas.	Local Government	High	Mid-Range	FEMA HMA Grant	TBD	
3.10.3	Evaluate the feasibility of a shared tri-county ALERT system covering Baldwin, Escambia, and Mobile counties.	Local Government	High	Mid-Range	FEMA HMA Grant	TBD	
3.10.5	Upgrade critical communications infrastructure.	Local Government	High	Long-Range	TBD	TBD	
4	Goal for Natural Resources Protection. Preserve and restore the development that balances the constraints of nature with the so				ustainable co	ommunity	

	Baldwin County Board of Education Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
4.1	Open Space Easements and Acquisitions. Acquire easements and wetlands to assure permanent protection of these natural resou	· ·	environmentally ben	eficial lands, such a	s hillsides, floo	od plains,		
4.1.1	Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.	County Commission	Medium	Mid-Range	FEMA HMA Grant	TBD		
4.2	River/Stream Corridor Restoration and Protection. Restore and	d protect river and stream	corridors within a	reas.				
4.2.1	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Planning Department	Medium	Mid-Range	Local Funds	TBD		
4.2.2	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	Planning Department	Medium	Long-Range	Local Funds	TBD		
4.3	Urban Forestry Programs. Maintain a healthy forest that can help	o mitigate damaging impacts	s of flooding, erosion	n, landslides and wild	dfires within u	rban areas.		
4.3.1	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).	County Commission	Medium	Mid-Range	Local Funds	TBD		
4.3.2	Increase overall green spaces in cities by planting hurricane resistant trees with site and location taken into consideration.	County Commission	Medium	Mid-Range	Local Funds	TBD		
4.4	Beach and Dune Protection/Renourishment. Protect beaches a programs.	ind dunes from coastal an	d man-made erosi	on and implement	renourishme	nt		
4.4.1	Restore and protect wetlands to enhance storm water drainage.	County Commission	Medium	Mid-Range	Local Funds	TBD		
4.4.2	Develop a coastal renourishment program	County Commission	Medium	Mid-Range	Local Funds	TBD		
4.5	<u>Water Resources Conservation Programs.</u> Protect water qualit uninterrupted potable water supplies.	y through water conserva	tion programs to n	nitigate the effects	of droughts a	and assure		

	Baldwin County Board of Education Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost		
4.5.1	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.Develop a coastal renourishment program	County Commission	Medium	Mid-Range	Local Funds	TBD		
5	Goal for Structural Projects. Apply engineered structural modifications to natural systems and public infrastructure to reduce the potentially damaging impacts of hazards, where feasible, cost effective, and environmentally suitable.							
5.1	<u>Drainage System Maintenance.</u> Improve maintenance programs for streams and drainage ways.							
5.1.1	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Building Official	Medium	Long-Range	Local Funds	TBD		
5.2	Reservoirs and Drainage System Improvements. Control floodin feasible, such as levees/floodwalls, diversions, channel modification	•	•		med cost effec	ctive and		
5.2.1	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Planning Department	Medium	Mid-Range	FEMA HMA Grant	TBD		
5.2.2	Improve and retrofit water supply systems to save water during drought events and to eliminate breaks and leaks.	Planning Department	Low	Long-Range	FEMA HMA Grant	TBD		
5.3	Community Shelters and Safe Rooms. Provide shelters from na	atural hazards for the safe	ty of community re	sidents.				
5.3.1	Ensure the inclusion of storm shelters and/or safe rooms in public buildings such as schools and multi-purpose community centers.	Planning Department	Medium	Mid-Range	FEMA HMA Grant	TBD		
5.3.2	Pursue grand funds to establish a program for subsidizing safe room and storm shelter construction in appropriate locations and facilities.	Planning Department	Medium	Mid-Range	FEMA HMA Grant	TBD		

	Baldwin County Board of Education Community Action Program						
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than two years Mid-Range=2-5 years Long-Range-more than five years	Funding Source	Estimated Cost	
5.3.3	Encourage the construction of safe rooms in new and existing homes and buildings.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD	

Appendix B – Escambia County Community Action Plans

B.1 Escambia County Community Action Plan	
Mitigation Action	Train local flood plain managers through programs
	offered through the State Flood Plain Manager.
Туре	Prevention
Goal	Establish a comprehensive countywide
	hazard mitigation system
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact for this Action	Flood Plain Manager
Estimated Time Frame for Completion	2025
Estimated Cost	TBD
Funding Sources	HMGP, Local
Priority	High
Benchmark	Escambia County continues training local flood plain
	manager.
Mitigation Action	Make application and/or commit/continue to
	participate in the NFIP.
Туре	Prevention
Goal	Establish a comprehensive countywide
	hazard mitigation system
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	Flood Plain Manager
Estimated Time Frame for Completion	2025
Estimated Cost	TBD
Funding Sources	HMGP, Local
Priority	High
Benchmark	Escambia County continues participating in the
	National Flood Insurance Program.
Mitigation Action	Promote the purchase of flood insurance coverage by
	property owners and renters in high-risk flooding
Type	Property Protection
Goal	Establish a comprehensive countywide
	hazard mitigation system
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	New and Existing
Point of Contact for this Action	EMA
Estimated Time Frame for Completion	2024
Estimated Cost	TBD
Funding Sources	HMGP, Local
Priority	High
Benchmark	Escambia County continues promoting flood

Mitigation Action	Prepare and implement standard operating procedures
Wildgatton Action	for drainage system maintenance.
Type	Property Protection
Type Goal	Reduce Escambia County's risk from natural
Goai	hazards
W (1)	
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact for this Action	County Engineer/Road Department
Estimated Time Frame for Completion	2024
Estimated Cost	TBD
Funding Sources	HMGP, Local
Priority	High
Benchmark	Escambia County continues drainage system maintenance.
Mitigation Action	Distribute FEMA Publication 320- <u>Taking</u> <u>Shelter From the Storm: Building a Safe</u> <u>Room in Your House</u> – to local homebuilders
Type	Public Education & Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	Thunderstorms, Tornadoes, High Winds, Strong Winds, Hurricanes/Tropical Storms/Tropical Depressions
Applies to new/existing asset(s)	New and Existing
Point of Contact for this Action	EMA
Estimated Time Frame for Completion	2025
Estimated Cost	TBD
Funding Sources	HMGP, Local
Priority	High
Benchmark	Escambia County continues distributing FEMA publications.
Mitigation Action	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.
Туре	Public Education & Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact for this Action	Flood Plain Manager, EMA
Estimated Time Frame for Completion	2023
	1

Estimated Cost	TBD
Funding Sources	HMGP, Local
Priority	Low
Benchmark	Escambia County continues publicizing the availability of FIRM information.
Mitigation Action	Promote mitigation and severe weather awareness through an annual severe weather awareness event.
Туре	Public Education & Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	All Hazards
Applies to new/existing asset(s)	Existing
Point of Contact for this Action	EMA
Estimated Time Frame for Completion	2025
Estimated Cost	TBD
Funding Sources	HMGP, Local
Priority	High
Benchmark	Escambia County continues promoting mitigation and severe weather awareness through an annual severe weather awareness event.
Mitigation Action	Obtain free publications from FEMA, NWS, USGS, and other federal and state agencies and deposit these materials with local libraries.
Туре	Public Education & Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	All Hazards
Applies to new/existing asset(s)	Existing
Point of Contact for this Action	EMA
Estimated Time Frame for Completion	2023
Estimated Cost	TBD
Funding Sources	HMGP, Local
Priority	Medium
Benchmark	Escambia County continues obtaining and depositing materials with local libraries.
Mitigation Action	Distribute hazard mitigation brochures to area schools for distribution to students.
Туре	Public Education & Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	All Hazards
Applies to new/existing asset(s)	Existing

Point of Contact for this Action	EMA
Estimated Time Frame for Completion	2022
-	TBD
Estimated Cost	
Funding Sources	HMGP, Local
Priority	High
Benchmark	Escambia County continues distributing hazard
	mitigation brochures.
Mitigation Action	Promote the use of weather radios in households and
	businesses.
Туре	Public Education & Awareness
Goal	Establish a comprehensive countywide
	hazard mitigation system
Hazard(s) Addressed	All Hazards
Applies to new/existing asset(s)	New and Existing
Point of Contact for this Action	EMA
Estimated Time Frame for Completion	2024
Estimated Cost	TBD
Funding Sources	HMGP, Local
Priority	High
Benchmark	Escambia County continues promoting the use of
	weather radios.
Mitigation Action	Seek technical assistance through the Alabama
	Cooperative Extension System and/or the Alabama
	Forestry Commission with Best Management Practices
	(BMPs) for channel and drainage system maintenance.
Туре	Natural Resources Protection
Goal	Reduce Escambia County's risk from natural
	hazards
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact for this Action	Flood Plain Manager
Estimated Time Frame for Completion	2023
Estimated Cost	TBD
Funding Sources	HMGP, ACES, AFC
Priority	Low
Benchmark	Escambia County continues seeking technical
	assistance.
Mitigation Action	Purchase, install, and test emergency warning sirens,
A THE GREAT A SERVICE	as needed. Upgrade existing equipment as needed.
Type	Emergency Services Protection
	TEATRA STAIN A CHAIN IN AND A LIUMAA HUM
Goal	Establish a comprehensive countywide hazard mitigation system

Hazard(s) Addressed	All Hazards
Applies to new/existing asset(s)	New and Existing
Point of Contact for this Action	EMA
Estimated Time Frame for Completion	2024
Estimated Cost	\$35,000 each
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	Escambia County will purchase, install and test warning sirens as funds become available.
Mitigation Action	Purchase/update emergency generators for post-disast mitigation and conduct routine tests on backup generators for all critical facilities. This includes a generator for the Alabama Technology Network Building on the Brewton Campus of Jefferson Davis Community College (JDCC); two permanently mount generators for two water facilities of the Freemanville Water System; generator for the Little Escambia Church, 91 Pecan Leaf Lane that serves as a Red Cros Emergency Shelter; a 100 kilowatt generator at the High School that serves as a shelter in times of seve weather; generators to power the central communications cores at each Jefferson Davis Community College in Escambia County (Atmore and Brewton); replace the existing emergency generator and retrofit the switch gear at the Atmore Community Hospital; an emergency generator for the Physician Office Complex #1 at the DW McMillan Medical Center (150 KW) including installation (\$250,000); an emergency generator for the Physicic Office Complex #2 at the Flomaton Medical Center (50 KW) including installation (\$50,000) and emergency generators for all fire tower sites.
Type	Emergency Services Protection
Goal	Reduce Escambia County's vulnerability to natural hazards
Hazard(s) Addressed	All Hazards
Applies to new/existing asset(s)	Existing
Point of Contact for this Action	EMA
Estimated Time Frame for Completion	2025
Estimated Cost	\$1,500 - \$35,000 each
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	Escambia County will purchase and update generator as funds become available.

Mitigation Action	Support the Alabama Skywarn Foundation's efforts to
Mitigation Action	distribute weather radios to low- income households,
	especially in rural areas outside of siren coverage
True	Emergency Services Protection
Type	·
Goal	Foster public support and acceptance of hazard
	mitigation
Hazard(s) Addressed	All Hazards
Applies to new/existing asset(s)	777.6
Point of Contact for this Action	EMA
Estimated Time Frame for Completion	TBD
Estimated Cost	\$35 each
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	Escambia County continues supporting efforts to distribute weather radios.
Mitigation Action	Seek funding sources, such as FEMA HMGP, FEMA
	PDM, and HUD Community Development Block
	Grant funds, to assist building retrofits to protect
	against flood
Type	Structural Projects
Goal	Reduce Escambia County's risk from natural
	hazards
Hazard(s) Addressed	All Hazards
Applies to new/existing asset(s)	Existing
Point of Contact for this Action	EMA, Flood Plain Manager
Estimated Time Frame for Completion	2025
Estimated Cost	TBD
Funding Sources	Local Government, HUD CDBG, HMGP, PDM
Priority	MEDIUM
Benchmark	Escambia County continues seeking funding sources.
Mitigation Action	Encourage the construction of safe rooms within new
	public buildings, such as new schools, libraries,
	community centers, and other public buildings where
	feasible.
Type	Structural Projects
Goal	Reduce vulnerability of new and future
	development
Hazard(s) Addressed	Thunderstorms, Tornadoes, Hurricanes,
	Tropical Storms, Tropical Depressions, High Winds,
	Strong Winds
Applies to new/existing asset(s)	New and Existing
Point of Contact for this Action	Local Government, EMA
1 omt of Contact for this Action	Local Government, Livia

Estimated Time Frame for Completion	2022
Estimated Cost	\$125,000 and up each
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	Escambia County continues encouraging the
	construction of safe rooms.
Mitigation Action	Provide adequate safe rooms and community shelters to provide a safe haven for citizens from severe storms. Encourage the construction of safe rooms in existing construction, to include retrofitting public schools with community shelters. This includes a community shelter for the Atmore Utility Board.
Туре	Structural Projects
Goal	Reduce Escambia County's vulnerability to natural hazards
Hazard(s) Addressed	Thunderstorms, Tornadoes, Hurricanes, Tropical Storms, Tropical Depressions, High Winds, Strong Winds
Applies to new/existing asset(s)	New and Existing
Point of Contact for this Action	School Boards
Estimated Time Frame for Completion	2025
Estimated Cost	\$125,000 and up each
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	Escambia County will provide adequate safe rooms and community shelters as funds become available.
Mitigation Action	Repair, upgrade and install drainage structures countywide to remove storm water and mitigate flooding problems on county rights-of-way and county properties, as well as surrounding properties.
Туре	Structural Projects
Goal	Reduce Escambia County's vulnerability to natural hazards
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact for this Action	County Engineer
Estimated Time Frame for Completion	2025
Estimated Cost	TBD
Funding Sources	HMGP, Local
Priority	High
Benchmark	Escambia County will continue to repair, upgrade, and install drainage structures as funds become available.

Mitigation Action	Upgrade bridges and box culverts and cross drains on county roads.
Туре	Structural Projects
Goal	Reduce Escambia County's vulnerability to natural hazards
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact for this Action	County Engineer
Estimated Time Frame for Completion	2025
Estimated Cost	TBD
Funding Sources	HMGP, Local, DOT
Priority	High
Benchmark	Escambia County will upgrade bridges and box culverts and cross drains as funds become available.

B.1 Atmore Community Action Program

City of A	City of Atmore Mitigation Actions	
Mitigation Action - DELETED	Train local flood plain managers through programs offered through the State Flood Plain Manager.	
Туре	Prevention	
Goal	Establish a comprehensive countywide hazard mitigation system	
Hazard(s) Addressed	Floods, Flash Floods	
Applies to new/existing asset(s)	Existing	
Point of Contact Person for this Action	Flood Plain Manager	
Estimated Time Frame for Completion	2029	
Estimated Cost	TBD	
Fundin2 Sources	Local, HMGP	
Priority	High	
Benchmark	COMPLETED	
Mitigation Action	Promote the purchase of flood insurance coverage by property owners and renters in high-risk flooding areas.	
Туре	Property Protection	
Goal	Establish a comprehensive countywide hazard mitigation system	
Hazard(s) Addressed	Floods, Flash Floods	
Applies to new/existing asset(s)	New and Existing	
Point of Contact Person for this Action	EMA	
Estimated Time Frame for Completion	2023	
Estimated Cost	TBD	
Funding Sources	Local Government	
Priority	High	
Benchmark	Continue to promote awareness	
Mitigation Action	Maintain a library of technical assistance and guidance materials to support the local flood plain manager.	
Туре	Prevention	
Goal	Establish a comprehensive countywide hazard mitigation system	
Hazard(s) Addressed	Floods, Flash Floods	
Applies to new/existing asset(s)	New and Existing	
Point of Contact for this Action	Local Flood Plain Manager	
Estimated Time Frame for Completion	2023	
Estimated Cost	TBD	
Funding Sources	HMGP; Local	
Priority	Low	
	·	

D 1 1	m : 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Benchmark	The city organized a three ring binder containing multiple areas of guidance relating to Floodplain Management. The binder is located in a readily accessible location and contains handouts for public use.
Mitigation Action	Promote good construction practices and proper code enforcement to eliminate most structural problems during natural hazard events.
Туре	Public Education and Awareness
Goal	Reduce vulnerability of new and future development
Hazard(s) Addressed	All Hazards
Applies to new/existing asset(s)	New and Existing
Point of Contact Person for this Action	Building Inspector
Estimated Time Frame for Completion	2024
Estimated Cost	TBD
Fundin2 Sources	HMGP; Local
Priority	Low
Benchmark	Atmore continues promoting good construction practices and proper code enforcements.
Mitigation Action	Distribute FEMA Publication 320 - <u>Taking</u> Shelter From the Storm: Building a Safe Room in Your House - to local homebuilders.
Туре	Public Education and Awareness
Type Goal	Public Education and Awareness Establish a comprehensive countywide hazard mitigation system
	Establish a comprehensive countywide hazard mitigation
Goal	Establish a comprehensive countywide hazard mitigation system
Goal Hazard(s) Addressed	Establish a comprehensive countywide hazard mitigation system Tornadoes, High Winds, Strong Winds, Hail
Goal Hazard(s) Addressed Applies to new/existing asset(s)	Establish a comprehensive countywide hazard mitigation system Tornadoes, High Winds, Strong Winds, Hail New and Existing
Goal Hazard(s) Addressed Applies to new/existing asset(s) Point of Contact Person for this Action	Establish a comprehensive countywide hazard mitigation system Tornadoes, High Winds, Strong Winds, Hail New and Existing County EMA
Goal Hazard(s) Addressed Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion	Establish a comprehensive countywide hazard mitigation system Tornadoes , High Winds, Strong Winds, Hail New and Existing County EMA 2025
Goal Hazard(s) Addressed Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion Estimated Cost	Establish a comprehensive countywide hazard mitigation system Tornadoes , High Winds, Strong Winds, Hail New and Existing County EMA 2025 TBD
Goal Hazard(s) Addressed Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion Estimated Cost Funding Sources	Establish a comprehensive countywide hazard mitigation system Tornadoes, High Winds, Strong Winds, Hail New and Existing County EMA 2025 TBD HMGP; Local Low Atmore continues distributing FEMA Publication 320.
Hazard(s) Addressed Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion Estimated Cost Funding Sources Priority Benchmark	Establish a comprehensive countywide hazard mitigation system Tornadoes, High Winds, Strong Winds, Hail New and Existing County EMA 2025 TBD HMGP; Local Low Atmore continues distributing FEMA Publication 320. The planning committee reviewed this action and
Goal Hazard(s) Addressed Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion Estimated Cost Funding Sources Priority	Establish a comprehensive countywide hazard mitigation system Tornadoes, High Winds, Strong Winds, Hail New and Existing County EMA 2025 TBD HMGP; Local Low Atmore continues distributing FEMA Publication 320.
Hazard(s) Addressed Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion Estimated Cost Funding Sources Priority Benchmark	Establish a comprehensive countywide hazard mitigation system Tornadoes, High Winds, Strong Winds, Hail New and Existing County EMA 2025 TBD HMGP; Local Low Atmore continues distributing FEMA Publication 320. The planning committee reviewed this action and Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper
Hazard(s) Addressed Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion Estimated Cost Funding Sources Priority Benchmark Mitigation Action	Establish a comprehensive countywide hazard mitigation system Tornadoes, High Winds, Strong Winds, Hail New and Existing County EMA 2025 TBD HMGP; Local Low Atmore continues distributing FEMA Publication 320. The planning committee reviewed this action and Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.
Hazard(s) Addressed Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion Estimated Cost Funding Sources Priority Benchmark Mitigation Action	Establish a comprehensive countywide hazard mitigation system Tornadoes, High Winds, Strong Winds, Hail New and Existing County EMA 2025 TBD HMGP; Local Low Atmore continues distributing FEMA Publication 320. The planning committee reviewed this action and Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements. Public Education & Awareness
Goal Hazard(s) Addressed Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion Estimated Cost Funding Sources Priority Benchmark Mitigation Action Type Goal	Establish a comprehensive countywide hazard mitigation system Tornadoes, High Winds, Strong Winds, Hail New and Existing County EMA 2025 TBD HMGP; Local Low Atmore continues distributing FEMA Publication 320. The planning committee reviewed this action and Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements. Public Education & Awareness Foster public support and acceptance of hazard mitigation
Goal Hazard(s) Addressed Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion Estimated Cost Funding Sources Priority Benchmark Mitigation Action Type Goal Hazard(s) Addressed	Establish a comprehensive countywide hazard mitigation system Tornadoes, High Winds, Strong Winds, Hail New and Existing County EMA 2025 TBD HMGP; Local Low Atmore continues distributing FEMA Publication 320. The planning committee reviewed this action and Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements. Public Education & Awareness Foster public support and acceptance of hazard mitigation Floods, Flash Floods

Estimated Cost	TBD
Funding Sources	HMGP, Local
Priority	Low
Benchmark	Atmore continues publicizing the availability of FIRM information.
Mitigation Action	Promote mitigation and severe weather awareness, through an annual severe weather awareness event.
Type	Public Education & Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	All
Aoolies to new/existing asset(s)	New and Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2025
Estimated Cost	TBD
Fundin2 Sources	HMGP/ Local Government
Priority	High
Benchmark	The Escambia County EMA and the City of Atmore promote mitigation and severe weather awareness though an annual severe weather awareness event.
Mitigation Action	Promote the use of weather radios in households and businesses.
Туре	Public Education & Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	All
Applies to new/existin2 asset(s)	New and Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2025
Estimated Cost	\$30 each
Fundine Sources	HMGP, Local Government
Priority	High
Benchmark	The City of Atmore continues promoting the use of weather radios in households and businesses.
Mitigation Action	Seek technical assistance through the Alabama Cooperative Extension System and/or the Alabama Forestry Commission with Best Management Practices (BMPs) for channel and drainage system maintenance.
Туре	Natural Resources Protection
Goal	Reduce Escambia County's risk from natural hazards
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	FPM
2 Sint of Contact I cison for this faction	A A A1A

Estimated Time Frame for Completion	2025
Estimated Cost	TBD
Funding Sources	HMGP, AL Cooperative Extension Service, AL Forestry Commission
Priority	Low
Benchmark	The city continues to work with the Escambia County Soil and Water Conservation District to maintain Best Management Practices for channel and drainage system maintenance.
Mitigation Action	Install solar panels or generators for the 16 traffic lights.
Туре	Emergency Services Protection
Goal	Establish a comprehensive countywide hazard mitigation system
Hazard(s) Addressed	Thunderstorms, Tornados, Strong Winds, High Winds
Applies to new/existin2asset(s)	Existing
Point of Contact Person for this Action	Local Government
Estimated Time Frame for Completion	2025
Estimated Cost	TBD
Funding Sources	HMGP, DOT
Priority	High
Benchmark	.No action has been taken due to lack of funds.
Mitigation Action	Purchase, install, and test emergency warning sirens, as needed. Upgrade existing equipment as needed.
Туре	Emergency Services Protection
Goal	Establish a comprehensive countywide hazard mitigation
	system
Hazard(s) Addressed	All
Applies to new/existin2 asset(s)	New and Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2024
Estimated Cost	TBD
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	No action has been taken due to lack of funds.
Mitigation Action	Purchase/update emergency generators for post-disaster mitigation and conduct routine tests on backup generators for all critical facilities. This includes a 150 kilowatt generator mounted on a trailer for the Atmore Utility Board; a 100 kilowatt generator at the High School that serves as a shelter in times of severe weather; a 60 kilowatt generator at Fire Station #2; a 60 kilowatt generator for the Public Works Dept.; generators to power the central communications cores at each Jefferson Davis Community College in Escambia County (Atmore and Brewton); replace the existing

Type Goal Hazard(s) Addressed Applies to new/existin2 asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion	emergency generator and retrofit the switch gear at the Atmore Community Hospital; and two permanently mounted generators for two water facilities of the Freemanville Water System. Purchase 8 portable generators with extending pole lights. Emergency Services Protection Reduce Atmore's vulnerability to natural hazards All Existing EMA 2026
Estimated Cost Funding Sources	\$1,500 - \$50,000 each HMGP,ADECA
Priority	High
Benchmark	No action has been taken due to lack of funds.
Mitigation Action	Support the Alabama Skywarn Foundation's efforts to distribute weather radios to low-income households, especially in rural areas outside of siren coverage areas.
Туре	Emergency Services Protection
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	All
Applies to new/existin2 asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2024
Estimated Cost	\$30 each
Funding Sources	HMGP
Priority	High
Benchmark	No action has been taken due to lack of funds.
Mitigation Action	Encourage the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.
Type	Structural Projects
Goal	Reduce Atmore's vulnerability to natural hazards
Hazard(s) Addressed	Thunderstorms, Hail, Tornados, High Winds, Strong Winds
Applies to new/existine: asset(s)	New and Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2026
Estimated Cost	\$125,000 each
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	No action has been taken due to lack of funds.

Mitigation Action	Encourage the construction of safe rooms in existing
	construction, to include retrofitting public schools with
	community shelters. Provide adequate safe rooms and
	community shelters to provide a safe haven for citizens from severe storms. This includes an employee shelter for the
	Atmore Utility Board.
Tvpe	Structural Projects
Goal	Reduce Escambia County's vulnerability to natural
	hazards
Hazard(s) Addressed	Thunderstorms, Tornados, Strong Winds, High Winds
Annlies to new/existin!! asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2026
Estimated Cost	TBD
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	No action has been taken due to lack of funds.
Mitigation Action	Improve/Install storm drains. Improve drainage for various
	streets downtown so that adequate drainage from storm water and heavy rainfall will occur; install an additional drain under
	the railroad track near Highland Ave.
Туре	Structural Projects
Goal	Reduce Escambia County's vulnerability to natural hazards
Goal Hazard(s) Addressed	Reduce Escambia County's vulnerability to natural hazards Floods, Flash Floods
Goal Hazard(s) Addressed Applies to new/existing asset(s)	Reduce Escambia County's vulnerability to natural hazards Floods, Flash Floods New and Existing
Goal Hazard(s) Addressed Applies to new/existing asset(s) Point of Contact Person for this Action	Reduce Escambia County's vulnerability to natural hazards Floods, Flash Floods New and Existing EMA, County Road Dept.
Goal Hazard(s) Addressed Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion	Reduce Escambia County's vulnerability to natural hazards Floods, Flash Floods New and Existing EMA, County Road Dept. 2025
Goal Hazard(s) Addressed Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion Estimated Cost	Reduce Escambia County's vulnerability to natural hazards Floods, Flash Floods New and Existing EMA, County Road Dept. 2025 2018
Goal Hazard(s) Addressed Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion Estimated Cost Fundin2 Sources	Reduce Escambia County's vulnerability to natural hazards Floods, Flash Floods New and Existing EMA, County Road Dept. 2025 2018 HMGP, DOT
Goal Hazard(s) Addressed Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion Estimated Cost Fundin2 Sources Priority	Reduce Escambia County's vulnerability to natural hazards Floods, Flash Floods New and Existing EMA, County Road Dept. 2025 2018 HMGP, DOT High
Goal Hazard(s) Addressed Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion Estimated Cost Fundin2 Sources Priority Benchmark	Reduce Escambia County's vulnerability to natural hazards Floods, Flash Floods New and Existing EMA, County Road Dept. 2025 2018 HMGP, DOT High No action has been taken due to lack of funds.
Goal Hazard(s) Addressed Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion Estimated Cost Fundin2 Sources Priority	Reduce Escambia County's vulnerability to natural hazards Floods, Flash Floods New and Existing EMA, County Road Dept. 2025 2018 HMGP, DOT High No action has been taken due to lack of funds. Install storm shutters on the Community Center, Library, and
Goal Hazard(s) Addressed Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion Estimated Cost Fundin2 Sources Priority Benchmark	Reduce Escambia County's vulnerability to natural hazards Floods, Flash Floods New and Existing EMA, County Road Dept. 2025 2018 HMGP, DOT High No action has been taken due to lack of funds. Install storm shutters on the Community Center, Library, and City Hall to prevent flying debris from breaking the
Goal Hazard(s) Addressed Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion Estimated Cost Fundin2 Sources Priority Benchmark	Reduce Escambia County's vulnerability to natural hazards Floods, Flash Floods New and Existing EMA, County Road Dept. 2025 2018 HMGP, DOT High No action has been taken due to lack of funds. Install storm shutters on the Community Center, Library, and
Goal Hazard(s) Addressed Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion Estimated Cost Fundin2 Sources Priority Benchmark	Reduce Escambia County's vulnerability to natural hazards Floods, Flash Floods New and Existing EMA, County Road Dept. 2025 2018 HMGP, DOT High No action has been taken due to lack of funds. Install storm shutters on the Community Center, Library, and City Hall to prevent flying debris from breaking the
Goal Hazard(s) Addressed Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion Estimated Cost Fundin2 Sources Priority Benchmark Mitigation Action	Reduce Escambia County's vulnerability to natural hazards Floods, Flash Floods New and Existing EMA, County Road Dept. 2025 2018 HMGP, DOT High No action has been taken due to lack of funds. Install storm shutters on the Community Center, Library, and City Hall to prevent flying debris from breaking the windows and causing damage to interior of buildings. Structural Projects Reduce Escambia County's vulnerability to natural hazards
Goal Hazard(s) Addressed Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion Estimated Cost Fundin2 Sources Priority Benchmark Mitigation Action Type	Reduce Escambia County's vulnerability to natural hazards Floods, Flash Floods New and Existing EMA, County Road Dept. 2025 2018 HMGP, DOT High No action has been taken due to lack of funds. Install storm shutters on the Community Center, Library, and City Hall to prevent flying debris from breaking the windows and causing damage to interior of buildings. Structural Projects
Goal Hazard(s) Addressed Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion Estimated Cost Fundin2 Sources Priority Benchmark Mitigation Action Type Goal Hazard(s) Addressed Aoolies to new/existin2asset(s)	Reduce Escambia County's vulnerability to natural hazards Floods, Flash Floods New and Existing EMA, County Road Dept. 2025 2018 HMGP, DOT High No action has been taken due to lack of funds. Install storm shutters on the Community Center, Library, and City Hall to prevent flying debris from breaking the windows and causing damage to interior of buildings. Structural Projects Reduce Escambia County's vulnerability to natural hazards
Goal Hazard(s) Addressed Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion Estimated Cost Fundin2 Sources Priority Benchmark Mitigation Action Type Goal Hazard(s) Addressed	Reduce Escambia County's vulnerability to natural hazards Floods, Flash Floods New and Existing EMA, County Road Dept. 2025 2018 HMGP, DOT High No action has been taken due to lack of funds. Install storm shutters on the Community Center, Library, and City Hall to prevent flying debris from breaking the windows and causing damage to interior of buildings. Structural Projects Reduce Escambia County's vulnerability to natural hazards Thunderstorms, Tornados, Strong Winds, High Winds
Goal Hazard(s) Addressed Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion Estimated Cost Fundin2 Sources Priority Benchmark Mitigation Action Type Goal Hazard(s) Addressed Aoolies to new/existin2asset(s)	Reduce Escambia County's vulnerability to natural hazards Floods, Flash Floods New and Existing EMA, County Road Dept. 2025 2018 HMGP, DOT High No action has been taken due to lack of funds. Install storm shutters on the Community Center, Library, and City Hall to prevent flying debris from breaking the windows and causing damage to interior of buildings. Structural Projects Reduce Escambia County's vulnerability to natural hazards Thunderstorms, Tornados, Strong Winds, High Winds Existing

Fundin2 Sources	HMGP
Priority	High
Benchmark	No action has been taken due to lack of funds.
Mitigation Action	Retrofit all Atmore Community Hospital's windows; a portion of the Atmore Community Hospital's roof; and Wind-retrofit the City Hall Complex and other city owned buildings.
Туре	Structural Projects
Goal	Reduce Escambia County's vulnerability to natural hazards
Hazard(s) Addressed	Thunderstorms, Tornados, Strong Winds, High Winds
Applies to new/existin2 asset(s)	Existing
Point of Contact Person for this Action	Local Government
Estimated Time Frame for Completion	2026
Estimated Cost	TBD
Fundin2 Sources	HMGP
Priority	High
Benchmark	No action has been taken due to lack of funds.
Mitigation Action	Install a line stopper for water and high-pressure gas at the Atmore Utility Board.
Туре	Structural Projects
Goal	Reduce Escambia County's vulnerability to natural hazards
Hazard(s) Addressed	Thunderstorms, Tornados, Strong Winds, High Winds
Applies to new/existin2 asset(s)	Existing
Point of Contact Person for this Action	Local Government
Estimated Time Frame for Completion	2024
Estimated Cost	TBD
Funding Sources	HMGP
Priority	High
Benchmark	No action has been taken due to lack of funds.
Mitigation Action	Maintain a library of technical assistance and guidance materials to support the local flood plain manager.
Туре	Public Education & Awareness
Goal	Establish a comprehensive countywide hazard mitigation system
Hazard(s) Addressed	Floods/Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA/FPM
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP, Local Government
Priority	Medium

Benchmark	The city organized a three ring binder containing multiple areas of guidance relating to Floodplain Management. The binder is located in a readily accessible location and contains handouts for public use.
Mitigation Action	Construct a new drainage channel from 10 th Street Channel to Pine Barren Watershed Channel
Туре	Structural Projects
Goal	Reduce Escambia County's vulnerability to natural hazards
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existin2 asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2025
Estimated Cost	TBD
Fundin2 Sources	HMGP, ADECA
Priority	High
Benchmark	Ongoing
Mitigation Action	Reduce risk of flooding at critical facility by performing work to improve drainage at Atmore Nursing Center in accordance with engineering recommendations.
Туре	Structural Projects
Goal	Property Protection
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existin2 asset(s)	Existing
Point of Contact Person for this Action	FPM
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	New Action
Mitigation Action	Reroute storm drain along W. Ridgeway St., N. Trammell St., and N. Carney St. from private property to public right of way.
Туре	Structural Projects
Goal	Property Protection
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existin2 asset(s)	Existing
Point of Contact Person for this Action	FPM
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	New Action

Mitigation Action	Replace culverts affecting the S. Presley St. area in order to improve drainage.
Туре	Structural Projects
Goal	Property Protection
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existin2 asset(s)	Existing
Point of Contact Person for this Action	FPM
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	New Action

B.3 City of Brewton's Mitigation Actions

Mitigation Action	Train local flood plain managers through programs offered through the State Flood Plain Manager.
Туре	Prevention
Goal	Establish a comprehensive countywide hazard mitigation system
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	Flood Plain Manager
Estimated Time Frame for Completion	2017
Estimated Cost	TBD
Funding Sources	HMGP, Local
Priority	High
Benchmark	The city continues education as necessary.
Mitigation Action	Make application and/or commit/continue to participate in the NFIP.
Туре	Prevention
Goal	Establish a comprehensive countywide hazard mitigation system
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	Flood Plain Manager
Estimated Time Frame for Completion	2017
Estimated Cost	TBD
Funding Sources	HMGP
Priority	High
Benchmark	The city will continue participating in the NFIP.
Mitigation Action - DELETED	Replace the natural gas line from its exposed hazardous location along the railroad to a secure condition along Highway 31 from Keego to Brewton.
Туре	Prevention
Goal	Reduce Escambia County's risk from natural hazards
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	Flood Plain Manager
Estimated Time Frame for Completion	2019

Estimated Cost	TBD
Funding Sources	HMGP
Priority	High
Benchmark	COMPLETED
Mitigation Action	Relocate a high pressure gas transmission main that is now installed on an easement adjacent to CSX Railroad from Georgia Pacific Mill
Туре	Prevention
Goal	Reduce Escambia County's risk from natural hazards
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	Flood Plain Manager
Estimated Time Frame for Completion	2019
Estimated Cost	TBD
Funding Sources	HMGP
Priority	High
Benchmark	This project is in the discussion stage and will be initiated if funding is available.
Mitigation Action	Promote the purchase of flood insurance coverage by property owners and renters in high-risk flooding areas.
Туре	Property Protection
Goal	Establish a comprehensive countywide hazard mitigation system
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing and New
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2020
Estimated Cost	TBD
Funding Sources	Local Government
Priority	High
Benchmark	The city recommends flood insurance when necessary.
Mitigation Action	Prepare and implement standard operating procedures for drainage system maintenance.
Туре	Property Protection

Goal	Establish a comprehensive countywide hazard mitigation system
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2020
Estimated Cost	TBD
Funding Sources	Local Government
Priority	High
Benchmark	No action has been taken due to lack of funds.
Mitigation Action	Install storm protected windows on 130 windows in the patient care areas only of the hospital in Brewton.
Туре	Property Protection
Goal	Reduce Brewton's vulnerability to natural hazards
Hazard(s) Addressed	Thunderstorms, Tornados, Hail, High Winds, Strong Winds
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA and the Hospital's Director of Purchasing
Estimated Time Frame for Completion	2020
Estimated Cost	\$150,000
Funding Sources	HMGP, D. W. McMillan Memorial Hospital
Priority	High
Benchmark	No action has been taken due to lack of funds.
Mitigation Action	Replace roof of the hospital in Brewton.
Туре	Property Protection
Goal	Reduce Brewton's vulnerability to natural hazards
Hazard(s) Addressed	Thunderstorms, Tornados, Hail, High Winds, Strong Winds
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA and the Hospital's Director of Purchasing
Estimated Time Frame for Completion	2020
Estimated Cost	\$550,000
Funding Sources	HMGP, D. W. McMillan Memorial Hospital
Priority	High
Benchmark	No action has been taken due to lack of funds.

Mitigation Action	Control rainwater run-off at the hospital in Brewton.
Туре	Property Protection
Goal	Reduce Brewton's vulnerability to natural hazards
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA and the Hospital's Director of Purchasing
Estimated Time Frame for Completion	2020
Estimated Cost	\$1.5 million
Funding Sources	HMGP, D. W. McMillan Memorial Hospital
Priority	Low
Benchmark	No action has been taken due to lack of funds.
Mitigation Action	Control rainwater run-off at the Physician Office Complex #1 at the DW McMillan Medical Center.
Туре	Property Protection
Goal	Reduce Brewton's vulnerability to natural hazards
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA and the Hospital's Director of Purchasing
Estimated Time Frame for Completion	2020
Estimated Cost	\$550,000
Funding Sources	HMGP, D. W. McMillan Memorial Hospital
Priority	Low
Benchmark	No action has been taken due to lack of funds.
Mitigation Action	Control rainwater run-off at the Physician Office Complex #2 at the Flomaton Medical Center.
Type	Property Protection
Goal	Reduce Brewton's vulnerability to natural hazards
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA and the Hospital's Director of Purchasing
Estimated Time Frame for Completion	2020
Estimated Cost	\$150,000
Funding Sources	HMGP, D. W. McMillan Memorial Hospital
Priority	Low
Benchmark	No action has been taken due to lack of funds.

Mitigation Action	Maintain a library of technical assistance and guidance materials to support the local flood plain manager.
Туре	Public Education and Awareness
Goal	Establish a comprehensive countywide hazard mitigation system
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA, Flood Plain Manager
Estimated Time Frame for Completion	2018
Estimated Cost	TBD
Funding Sources	Local, HMGP
Priority	Low
Benchmark	The city continues maintaining assistance and materials supporting the local flood plain manager as needed.
Mitigation Action	Promote good construction practices and proper code enforcement to eliminate most structural problems during natural hazard events.
Туре	Public Education and Awareness
Goal	Establish a comprehensive countywide hazard mitigation system
Hazard(s) Addressed	All
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA, County Engineer
Estimated Time Frame for Completion	2019
Estimated Cost	TBD
Funding Sources	Local, HMGP
Priority	Low
Benchmark	The city continues promoting construction practices and code enforcements supporting the county engineer as needed.
Mitigation Action	Distribute FEMA Publication 320 – <u>Taking Shelter</u> <u>From the Storm: Building a safe room in your house</u> – to local homebuilders.
Туре	Public Education and Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	Thunderstorms, Tornados, High Winds, Strong Winds

Applies to new/existing asset(s)	New and Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2020
Estimated Cost	\$4,500 each
Funding Sources	HMGP, Local Residents
Priority	High
Benchmark	The city continues distributing and making available FEMA publications.
Mitigation Action	Publicize the availability of FIRM information to real estate agents, builders, developers and homeowners through local trade publications and newspaper announcements.
Type	Public Education and Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	New and Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2020
Estimated Cost	TBD
Funding Sources	HMGP, Local
Priority	Low
Benchmark	The city continues publicizing the availability of FIRM information.
Mitigation Action	Promote mitigation and severe weather awareness, through an annual severe weather awareness event.
Туре	Public Education & Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	All
Applies to new/existing asset(s)	New and Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2020
Estimated Cost	TBD
Funding Sources	HMGP/ Local Government
Priority	High

Benchmark	The Escambia County EMA and the City of Brewton promotes mitigation and severe weather awareness through an annual severe weather awareness event.
Mitigation Action	Promote the use of weather radios in households and businesses.
Туре	Public Education & Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	All
Applies to new/existing asset(s)	New and Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2020
Estimated Cost	\$30 each
Funding Sources	HMGP, Local Government
Priority	High
Benchmark	The City of Brewton continues promoting the use of weather radios in households and businesses.
Mitigation Action	Seek technical assistance through the Alabama Cooperative Extension System and/or the Alabama Forestry Commission with Best Management Practices (BMPs) for channel and drainage system maintenance.
Туре	Natural Resources Protection
Goal	Reduce Escambia County's risk from natural hazards
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	FPM
Estimated Time Frame for Completion	2020
Estimated Cost	TBD
Funding Sources	HMGP, AL Cooperative Extension Service, AL Forestry Commission
Priority	Low
Benchmark	The city continues to work with the Escambia County Soil and Water Conservation District to maintain Best Management Practices for channel and drainage system maintenance.
Mitigation Action	Purchase, install, and test emergency warning sirens, as needed. Upgrade existing equipment as needed.

Type	Emergency Services Protection
Goal	Establish a comprehensive countywide hazard mitigation
	system
Hazard(s) Addressed	All
Applies to new/existing asset(s)	New and Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2019
Estimated Cost	TBD
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	No action has been taken due to lack of funds.
Mitigation Action	Purchase/update emergency generators for post-disaster mitigation and conduct routine tests on backup generators for all critical facilities. This includes four generators for the sewer pump stations; two generators for sewer lift stations and a generator for the Alabama Technology Network Building on the Brewton Campus of Jefferson Davis Community College (JDCC); two 60 kilowatt portable generators to power the wastewater life stations (Presley Street; Martin Luther King; Briar Lake; Liberty; and Medical Park); a 60 kilowatt generator for the Public Works Dept.; generators to power the central communications cores at each Jefferson Davis Community College in Escambia County (Atmore and Brewton); an emergency backup generator for the Brewton Public Library on Belleville Ave.; an emergency generator for the hospital in Brewton (1.6 MHz) including installation (\$1.2 million); and an emergency generator for the Physician Office Complex #2 at the Flomaton Medical Center (50KW) including installation (\$50,000). Purchase 8 portable generators with extending pole lights.
Туре	Emergency Services Protection
Goal	Reduce Escambia County's vulnerability to natural hazards
Hazard(s) Addressed	All
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2020

Estimated Cost	\$1,500 - \$50,000 each
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	No action has been taken due to lack of funds.
Mitigation Action	Complete an emergency alert system that has been currently designed at the JDCC.
Туре	Emergency Services Protection
Goal	Reduce Escambia County's vulnerability to natural hazards
Hazard(s) Addressed	All
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA, JDCC
Estimated Time Frame for Completion	2019
Estimated Cost	TBD
Funding Sources	HMGP, JDCC
Priority	High
Benchmark	No action has been taken due to lack of funds.
Mitigation Action	Install a radio antenna tower at the hospital in Brewton
Туре	Emergency Services Protection
Goal	Reduce Escambia County's vulnerability to natural hazards
Hazard(s) Addressed	All
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA, Brewton Hospital
Estimated Time Frame for Completion	2020
Estimated Cost	\$75,000
Funding Sources	HMGP, Hospital
Priority	High
Benchmark	No action has been taken due to lack of funds.
Mitigation Action	Support the Alabama Skywarn Foundation's efforts to distribute weather radios to low-income households, especially in rural areas outside of siren coverage areas.
Туре	Emergency Services Protection
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	All

Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2019
Estimated Cost	\$30 each
Funding Sources	HMGP
Priority	High
Benchmark	No action has been taken due to lack of funds.
Mitigation Action	Seek funding sources, such as FEMA HMGP, FEMA PDM and HUD Community Development Block Grant funds to assist building retrofits to protect against flood damage.
Type	Structural Projects
Goal	Reduce Escambia County's risk from natural hazards
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA, Flood Plain Manager
Estimated Time Frame for Completion	2018
Estimated Cost	TBD
Funding Sources	HMGP, Local
Priority	Low
Benchmark	No action has been taken due to lack of funds.
Mitigation Action	Encourage the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.
Туре	Structural Projects
Goal	Reduce Atmore's vulnerability to natural hazards
Hazard(s) Addressed	Thunderstorms, Hail, Tornados, High Winds, Strong Winds
Applies to new/existing asset(s)	New and Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2020
Estimated Cost	\$125,000 each
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	No action has been taken due to lack of funds.

Mitigation Action	Encourage the construction of safe rooms in existing construction, to include retrofitting public schools with community shelters. Provide adequate safe rooms and community shelters to provide a safe haven for citizens from severe storms.
Туре	Structural Projects
Goal	Reduce Escambia County's vulnerability to natural hazards
Hazard(s) Addressed	Thunderstorms, Tornados, Strong Winds, High Winds
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2020
Estimated Cost	TBD
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	No action has been taken due to lack of funds.
Mitigation Action	Construct a levee in the downtown area to protect against the hazard of repeated flooding. The feasibility study has been performed by the Corps of Engineers.
Type	Structural Projects
Goal	Reduce Escambia County's vulnerability to natural hazards
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	Local Government
Estimated Time Frame for Completion	2018
Estimated Cost	TBD
Funding Sources	HMGP, Corps of Engineers
Priority	High
Benchmark	No action has been taken due to lack of funds.
Mitigation Action - DELETED	Install a storm drain across the T.R. Miller Mill Company from Highway 31 to Murder Creek.
Туре	Structural Projects
Goal	Reduce Escambia County's vulnerability to natural hazards
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	Local Government

Estimated Time Frame for Completion	2018
Estimated Cost	TBD
Funding Sources	HMGP, Local
Priority	High
Benchmark	COMPLETED
Mitigation Action	Survey and improve the sewer lagoon dikes (High Street) for additional height to mitigate content overflow and the subsequent environmental and health hazard the sewage would create. Raise the height of the dikes to avert a flood event and rip rap dikes for erosion protection.
Type	Structural Projects
Goal	Reduce Escambia County's vulnerability to natural hazards
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	Local Government
Estimated Time Frame for Completion	2018
Estimated Cost	TBD
Funding Sources	HMGP, Local
Priority	High
Benchmark	No action has been taken due to lack of funds.
Mitigation Action	Improve drainage structure at the foot on Belleville Ave. so that adequate drainage from storm water and heavy rainfall will occur; improve drainage structure running parallel to College Drive by Jefferson Davis Community College's golf course and connecting to Union Cemetery on one end and Pea Ridge Road on the other end so that adequate drainage from storm water and heavy rainfall will occur.
Туре	Structural Projects
Goal	Reduce Escambia County's vulnerability to natural hazards
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	Local Government
Estimated Time Frame for Completion	2018
Estimated Cost	TBD

Funding Sources	HMGP, Local
Priority	High
Benchmark	No action has been taken due to lack of funds.
Mitigation Action	Construct/Install community safe rooms
Туре	Structural Projects
Goal	Reduce Brewton's vulnerability to natural hazards
Hazard(s) Addressed	Thunderstorms, Hail, Tornados, High Winds, Strong Winds
Applies to new/existing asset(s)	New and Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2020
Estimated Cost	\$125,000 each
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	No action has been taken due to lack of funds.

B.3 East Brewton Community Action Program

Mitigation Action	Train local flood plain managers through programs offered through the State Flood Plain Manager.
Туре	Prevention
Goal	Establish a comprehensive countywide hazard mitigation system
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	Flood Plain Manager
Estimated Time Frame for Completion	2024
Estimated Cost	TBD
Funding Sources	HMGP
Priority	High
Benchmark	East Brewton continues training local flood plain manager.
Mitigation Action	Make application and/or commit/continue to participate in the NFIP.
Туре	Prevention
Goal	Establish a comprehensive countywide hazard mitigation system
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	FPM
Estimated Time Frame for Completion	2025
Estimated Cost	TBD
Funding Sources	HMGP
Priority	High
Benchmark	East Brewton continues participating in the National Flood Insurance Program.
Mitigation Action	Promote the purchase of flood insurance coverage by property owners and renters in high-risk flooding areas.
Туре	Property Protection
Goal	Establish a comprehensive countywide hazard mitigation system
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing

Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2023
Estimated Cost	TBD
Funding Sources	Local Government
Priority	High
Benchmark	East Brewton continues promoting flood insurance.
Mitigation Action	Prepare and implement standard operating procedures for drainage system maintenance.
Туре	Property Protection
Goal	Reduce Escambia County's risk from natural hazards
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	Flood Plain Manager
Estimated Time Frame for Completion	2024
Estimated Cost	TBD
Funding Sources	HMGP/ Local Government
Priority	Low
Benchmark	East Brewton continues drainage system maintenance.
Mitigation Action	Maintain a library of technical assistance and guidance materials to support the local flood plain manager.
Туре	Public Education & Awareness
Goal	Establish a comprehensive countywide hazard mitigation system
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA, Flood Plain Manager
Estimated Time Frame for Completion	2025
Estimated Cost	TBD
Funding Sources	HMGP/ Local Government
Priority	Medium
Benchmark	East Brewton continues supporting the local flood plain manager.
Mitigation Action	Promote good construction practices and proper code enforcement to eliminate most structural problems during natural hazard events.
Туре	Public Education & Awareness

Goal	Reduce vulnerability of new and future development
Hazard(s) Addressed	All Hazards
Applies to new/existing asset(s)	New and Existing
Point of Contact Person for this Action	EMA/Co. Engineer
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP/ Local Government
Priority	Low
Benchmark	East Brewton continues promoting construction practices and proper code enforcements.
Mitigation Action	Distribute FEMA Publication 320 – <u>Taking Shelter</u> From the Storm: Building a Safe Room in Your House – to local homebuilders.
Туре	Public Education & Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	Thunderstorms, Hail, Tornados, High Winds, Strong Winds
Applies to new/existing asset(s)	New and Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP/Local Government
Priority	High
Benchmark	Escambia County continues distributing FEMA publications.
Mitigation Action	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.
Туре	Public Education & Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	New and Existing
Point of Contact Person for this Action	Flood Plain Manager, EMA

Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP/Local Government
Priority	Low
Benchmark	East Brewton continues publicizing the availability of FIRM information.
Mitigation Action	Promote mitigation and severe weather awareness, through an annual severe weather awareness event.
Туре	Public Education & Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	All Hazards
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP/Local Government
Priority	High
Benchmark	East Brewton continues promoting mitigation and severe weather awareness through participation with the county's annual severe weather awareness event.
Mitigation Action	Obtain free publications from FEMA, NWS, USGS, and other federal and state agencies and deposit these materials with local libraries.
Туре	Public Education & Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	All Hazards
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP/Local Government
Priority	Low
Benchmark	East Brewton continues obtaining and depositing materials with local libraries.

Mitigation Action	Distribute natural hazard mitigation brochures to area schools for distribution to students.
Туре	Public Education & Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	All Hazards
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP/Local Government
Priority	High
Benchmark	East Brewton continues distributing hazard mitigation brochures.
Mitigation Action	Promote the use of weather radios in households and businesses.
Type	Public Education & Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	All Hazards
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	Ongoing
Estimated Cost	\$30 each
Funding Sources	HMGP/Local Government
Priority	High
Benchmark	East Brewton continues promoting the use of weather radios.
Mitigation Action	Seek technical assistance through the Alabama Cooperative Extension System and/or the Alabama Forestry Commission with Best Management Practices (BMPs) for channel and drainage system maintenance.
Туре	Natural Resources Protection
Goal	Reduce Escambia County's risk from natural hazards
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing and New
Point of Contact Person for this Action	Flood Plain Manager

Estimated Time Frame for Completion	2025
Estimated Cost	TBD
Funding Sources	HMGP/AL Cooperative Extension Service/AL Forestry Commission
Priority	Low
Benchmark	East Brewton continues seeking technical assistance.
Mitigation Action	Purchase, install, and test emergency warning sirens, as needed. Upgrade existing equipment as needed.
Туре	Emergency Services Protection
Goal	Establish a comprehensive countywide hazard mitigation system
Hazard(s) Addressed	All
Applies to new/existing asset(s)	New and Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2024
Estimated Cost	TBD
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	No action has been taken due to lack of funds.
Mitigation Action	Purchase/update emergency generators for post-disaster mitigation and conduct routine tests on backup generators for all critical facilities. This includes four generators for the sewer pump stations; two permanently mounted generators for the sewer lift stations; two generators for sewer stations; a permanently mounted generator for the city hall and one for the police/fire departments; one permanently mounted generator for the waste water treatment plant.
Type	Emergency Services Protection
Goal	Reduce Atmore's vulnerability to natural hazards
Hazard(s) Addressed	All
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2025
Estimated Cost	\$1,500 - \$50,000 each
Funding Sources	HMGP, ADECA
Priority	High

Benchmark	No action has been taken due to lack of funds.
Mitigation Action	Support the Alabama Skywarn Foundation's efforts to distribute weather radios to low-income households, especially in rural areas outside of siren coverage areas.
Туре	Emergency Services Protection
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	All
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2025
Estimated Cost	\$30 each
Funding Sources	HMGP
Priority	High
Benchmark	No action has been taken due to lack of funds.
Mitigation Action	Seek funding sources, such as FEMA HMGP, FEMA PDM and HUD Community Development Block Grant funds, to assist building retrofits to protect against flood damage.
Туре	Structural Projects
Goal	Reduce Escambia County's risk from natural hazards.
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2025
Estimated Cost	TBD
Funding Sources	HMGP, PDM, HUD, Local
Priority	Medium
Benchmark	No action has been taken due to lack of funds.
Mitigation Action	Encourage the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.
Type	Structural Projects
Goal	Reduce Escambia County's vulnerability to natural hazards

Hazard(s) Addressed	Thunderstorms, Hail, Tornados, High Winds, Strong Winds
Applies to new/existing asset(s)	New and Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2025
Estimated Cost	\$125,000 and up - TBD
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	No additional action has been taken due to lack of funds.
Mitigation Action	Encourage the construction of safe rooms in existing construction, to include retrofitting public schools with community shelters. Provide adequate safe rooms and community shelters to provide a safe haven for citizens from severe storms.
Type	Structural Projects
Goal	Reduce Escambia County's vulnerability to natural hazards
Hazard(s) Addressed	Thunderstorms, Tornados, Strong Winds, High Winds
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2025
Estimated Cost	\$125,000 and up – TBD
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	No action has been taken due to lack of funds.

B.4 Flomaton Community Action Program

Mitigation Action	Train local flood plain managers through programs offered through the State Flood Plain Manager.
Туре	Prevention
Goal	Establish a comprehensive countywide hazard mitigation system
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	FPM
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP, Local
Priority	High
Benchmark	Continues training as needed.
Mitigation Action	Make application and/or commit/continue to participate in the NFIP.
Туре	Prevention
Goal	Establish a comprehensive countywide hazard mitigation system
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	Flood Plain Manager
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP, Local
Priority	High
Benchmark	Flomaton participates in the NFIP and will continue.
Mitigation Action	Promote the purchase of flood insurance coverage by property owners and renters in high-risk flooding areas.
Туре	Property Protection
Goal	Establish a comprehensive countywide hazard mitigation system
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA

Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	Local Government
Priority	High
Benchmark	Promotes flood insurance where needed.
Mitigation Action	Prepare and implement standard operating procedures for drainage system maintenance
Туре	Property Protection
Goal	Reduce Escambia County's risk from natural hazards
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	Local Government/ FPM
Estimated Time Frame for Completion	2023
Estimated Cost	TBD
Funding Sources	HMGP/ Local Government
Priority	Low
Benchmark	This action was discussed by the planning committee and the town wishes to keep this action in the plan.
Mitigation Action	Maintain a library of technical assistance and guidance materials to support the local flood plain manager.
Туре	Public Education & Awareness
Goal	Establish a comprehensive countywide hazard mitigation system
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA, Flood Plain Manager
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP, Local Government
Priority	Medium
Benchmark	This action was discussed by the planning committee and the town wishes to keep this action in the plan.
Mitigation Action	Distribute FEMA Publication 320 – <u>Taking Shelter</u> <u>From the Storm: Building a Safe Room in Your House</u> – to local homebuilders.
	to local homeounders.

Goal	Establish a comprehensive countywide hazard mitigation system
Hazard(s) Addressed	Tornadoes, High Winds, Strong Winds, Hail
Applies to new/existing asset(s)	New and Existing
Point of Contact Person for this Action	County EMA
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP; Local
Priority	Low
Benchmark	Flomaton continues distributing FEMA Publication 320.
Mitigation Action	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.
Туре	Public Education & Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	Flood Plain Manager, EMA
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP, Local
Priority	Low
Benchmark	Flomaton continues publicizing the availability of FIRM information.
Mitigation Action	Promote mitigation and severe weather awareness, through an annual severe weather awareness event.
Туре	Public Education & Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	All
Applies to new/existing asset(s)	New and Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP/ Local Government

Priority	High
Benchmark	The Escambia County EMA and the Town of Flomaton promotes mitigation and severe weather awareness through an annual severe weather awareness event.
Mitigation Action	Seek technical assistance through the Alabama Cooperative Extension System and/or the Alabama Forestry Commission with Best Management Practices (BMPs) for channel and drainage system maintenance.
Туре	Natural Resources Protection
Goal	Reduce Escambia County's risk from natural hazards
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	FPM
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP, AL Cooperative Extension Service, AL Forestry Commission
Priority	Low
Benchmark	The town continues to work with the Escambia County Soil and Water Conservation District to maintain Best Management Practices for channel and drainage system maintenance.
Mitigation Action	Purchase, install, and test emergency warning sirens, as needed. Upgrade existing equipment as needed.
Type	Emergency Services Protection
Goal	Establish a comprehensive countywide hazard mitigation system
Hazard(s) Addressed	All
Applies to new/existing asset(s)	New and Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2024
Estimated Cost	TBD
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	No action has been taken due to lack of funds.

Mitigation Action	Purchase/update emergency generators for post-disaster mitigation and conduct routine tests on backup generators for all critical facilities. This includes a generator for the Little Escambia Church, 91 Pecan Leaf Lane that serves as a Red Cross Emergency Shelter; generators for Water Well #2 at 4684 Highway 31 and Water Well #3 at 22680 Old Atmore Road to continue to provide potable water during power outages; and an emergency generator for the Physician Office Complex #2 at the Flomaton Medical Center (50 KW) including installation (\$50,000).
Type	Emergency Services Protection
Goal	Reduce Flomaton's vulnerability to natural hazards
Hazard(s) Addressed	All
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2025
Estimated Cost	\$1,500 - \$50,000 each
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	No action has been taken due to lack of funds.
Mitigation Action	Install a 20' tower section on Water Tank #2 to protect the Police Department's repeater antenna.
Type	Structural Projects
Goal	Reduce Flomaton's vulnerability to natural hazards
Hazard(s) Addressed	All
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA, Police Chief
Estimated Time Frame for Completion	2025
Estimated Cost	TBD
Funding Sources	HMGP, Local
Priority	High
Benchmark	No action has been taken due to lack of funds.
Mitigation Action	Support the Alabama Skywarn Foundation's efforts to distribute weather radios to low-income households, especially in rural areas outside of siren coverage areas.
Туре	Emergency Services Protection

Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	All
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2025
Estimated Cost	\$30 each
Funding Sources	HMGP
Priority	High
Benchmark	No action has been taken due to lack of funds.
Mitigation Action	Encourage the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.
Туре	Structural Projects
Goal	Reduce Flomaton's vulnerability to natural hazards
Hazard(s) Addressed	Thunderstorms, Hail, Tornados, High Winds, Strong Winds
Applies to new/existing asset(s)	New and Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2025
Estimated Cost	\$125,000 each
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	No action has been taken due to lack of funds.
Mitigation Action	Encourage the construction of safe rooms in existing construction, to include retrofitting public schools with community shelters. Provide adequate safe rooms and community shelters to provide a safe haven for citizens from severe storms. This includes an employee shelter for the Atmore Utility Board.
Туре	Structural Projects
Goal	Reduce Escambia County's vulnerability to natural hazards
Hazard(s) Addressed	Thunderstorms, Tornados, Strong Winds, High Winds
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2025

Estimated Cost	TBD
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	No action has been taken due to lack of funds.
Mitigation Action	Construct/Install community safe rooms
Туре	Structural Projects
Goal	Reduce Flomaton's vulnerability to natural hazards
Hazard(s) Addressed	Thunderstorms, Hail, Tornados, High Winds, Strong Winds
Applies to new/existing asset(s)	New and Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2025
Estimated Cost	\$125,000 each
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	No action has been taken due to lack of funds.

B.5 Pollard Community Action Program

Mitigation Action	Make application and/or commit/continue to participate in the NFIP.
Туре	Prevention
Goal	Establish a comprehensive countywide hazard mitigation system
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	Flood Plain Manager
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP, Local
Priority	High
Benchmark	The town is a NFIP participant and will continue participating.
Mitigation Action	Promote the purchase of flood insurance coverage by property owners and renters in high-risk flooding areas.
Type	Property Protection
Goal	Establish a comprehensive countywide hazard mitigation system
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	Local Government
Priority	High
Benchmark	The town promotes flood insurance where needed.
Mitigation Action	Prepare and implement standard operating procedures for drainage system maintenance.
Type	Property Protection
Goal	Reduce Pollard's risk from natural hazards
Hazard(s) Addressed	Thunderstorms, Tornados, Winter Weather, Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	Local Government/Flood Plain Manager

Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP, Local Government
Priority	Low
Benchmark	Pollard continues drainage system maintenance.
Mitigation Action	Maintain a library of technical assistance and guidance materials to support the local flood plain manager.
Type	Public Education & Awareness
Goal	Establish a comprehensive countywide hazard mitigation system
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA/Flood Plain Manager
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP, Local Government
Priority	Medium
Benchmark	Pollard continues distributing FEMA publications.
Mitigation Action	Distribute FEMA Publication 320 – <u>Taking Shelter</u> From the Storm: Building a Safe Room in Your House – to local homebuilders.
Туре	Public Education & Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	Thunderstorms, Tornados, High Winds, Strong Winds
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP, Local Government
Priority	High
Benchmark	Pollard continues distributing FEMA publications.
Mitigation Action	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.

Type	Public Education & Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA/Flood Plain Manager
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP, Local Government
Priority	Low
Benchmark	Pollard continues publicizing the availability of FIRM information.
Mitigation Action	Promote mitigation and severe weather awareness, through an annual severe weather awareness event.
Туре	Public Education & Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	All Hazards
Applies to new/existing asset(s)	New and Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP, Local Government
Priority	High
Benchmark	Pollard continues promoting mitigation and severe weather awareness through an annual severe weather awareness event.
Mitigation Action	Obtain free publications from FEMA, NWS, USGS, and other federal and state agencies and deposit these materials with local libraries.
Туре	Public Education & Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	All Hazards
Applies to new/existing asset(s)	New and Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	Ongoing

Estimated Cost	TBD
Funding Sources	HMGP, Local Government
Priority	Low
Benchmark	Pollard continues obtaining and depositing materials with local libraries.
Mitigation Action	Distribute natural hazard mitigation brochures to area schools for distribution to students.
Туре	Public Education & Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	All Hazards
Applies to new/existing asset(s)	New and Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP, Local Government
Priority	High
Benchmark	Pollard continues distributing hazard mitigation brochures.
Mitigation Action	Promote the use of weather radios in households and businesses.
Туре	Public Education & Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	All Hazards
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	Ongoing
Estimated Cost	\$30 each
Funding Sources	HMGP, Local Government
Priority	High
Benchmark	Pollard continues distributing hazard mitigation brochures and promoting the use of weather radios.
Mitigation Action	Seek technical assistance through the Alabama Cooperative Extension System and/or the Alabama Forestry Commission with Best Management Practices (BMPs) for channel and drainage system maintenance.
Туре	Natural Resources Protection

Goal R	Reduce Escambia County's risk from natural hazards
Iazard(s) Addressed F	loods, Flash Floods
applies to new/existing asset(s)	Existing
oint of Contact Person for this Action F	Tood Plain Manager
stimated Time Frame for Completion C	Ongoing
Sstimated Cost T	BD
8	IMGP, AL Cooperative Extension Service, AL Forestry Commission
Priority L	ow
Benchmark P	ollard continues seeking technical assistance.
n ii c	Purchase, install, and test emergency warning sirens, as needed. Upgrade existing equipment as needed. Looking not a public warning system having no such maintenance osts!
Type E	Emergency Services
	Establish a comprehensive countywide hazard mitigation ystem
Iazard(s) Addressed A	All Hazards
applies to new/existing asset(s)	New and Existing
oint of Contact Person for this Action	EMA
Stimated Time Frame for Completion 2	024
Sstimated Cost \$	35,000 each
Funding Sources	IMGP, ADECA
Priority H	High
W	Pollard will purchase, install and test emergency warning sirens as funds become available; however, they re also looking into a public warning system.
n	Purchase/update emergency generators for post-disaster nitigation and conduct routine tests on backup generators for all critical facilities.
Type E	Emergency Services Protection
	Reduce Escambia County's vulnerability to natural azards
Iazard(s) Addressed A	All Hazards
applies to new/existing asset(s)	Existing
oint of Contact Person for this Action E	EMA
· · · · · · · · · · · · · · · · · · ·	22.72.2

Estimated Cost	\$1,500 - \$30,000 each
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	Items not specific to the Town of Pollard were removed from this section. Pollard will purchase emergency generators as funds become available.
Mitigation Action	Support the Alabama Skywarn Foundation's efforts to distribute weather radios to low-income households, especially in rural areas outside of siren coverage areas.
Туре	Emergency Services Protection
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	All Hazards
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2024
Estimated Cost	\$30 each
Funding Sources	HMGP
Priority	High
Benchmark	Pollard continues supporting efforts to distribute weather radios.
Mitigation Action	Encourage the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.
Туре	Structural Projects
Goal	Reduce vulnerability of new and future development
Hazard(s) Addressed	Thunderstorms, Tornados, Hail, High Winds, Strong Winds
Applies to new/existing asset(s)	New and Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2025
Estimated Cost	TBD
Funding Sources	HMGP, Local
Priority	High
Benchmark	Pollard continues encouraging safe room construction.

Mitigation Action	Encourage the construction of safe rooms in existing construction, to include retrofitting public schools with community shelters.
Туре	Structural Projects
Goal	Reduce Escambia County's vulnerability to natural hazards
Hazard(s) Addressed	Thunderstorms, Tornados, Hail, High Winds, Strong Winds
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2025
Estimated Cost	TBD
Funding Sources	HMGP, Local
Priority	High
Benchmark	Pollard continues encouraging safe room construction.
Mitigation Action	Construct/Install community safe rooms
Туре	Structural Projects
Goal	Reduce Pollard's vulnerability to natural hazards
Hazard(s) Addressed	Thunderstorms, Hail, Tornados, High Winds, Strong Winds
Applies to new/existing asset(s)	New and Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2026
Estimated Cost	\$125,000 each
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	Pollard continues encouraging safe room construction.
Mitigation Action	Improve/Install storm drains.
Туре	Structural Projects
Goal	Reduce Pollard's vulnerability to natural hazards
Hazard(s) Addressed	Floods, Flash
Applies to new/existing asset(s)	New and Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2026
Estimated Cost	TBD
Funding Sources	HMGP, Local

Priority	High
Benchmark	Ongoing

B.6 Riverview Community Action Program

Mitigation Action	Train local flood plain managers through programs offered through the State Flood Plain Manager.
Туре	Prevention
Goal	Establish a comprehensive countywide hazard mitigation system
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	Flood Plain Manager
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP, Local
Priority	High
Benchmark	Escambia County continues training local flood plain manager.
Mitigation Action	Seek a countywide update of all FIRMS in digital format, with an emphasis on detailed studies of developed and developing areas with elevations provided and floodways delineated.
Type	Prevention
Goal	Establish a comprehensive countywide hazard mitigation system
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	Flood Plain Manager
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP (FEMA Map Modernization Program)
Priority	Low
Benchmark	Escambia County continues seeking update of all FIRMS.
Mitigation Action	Make application and/or commit/continue to participate in the NFIP.
Туре	Prevention
Goal	Establish a comprehensive countywide hazard mitigation system
Hazard(s) Addressed	Floods, Flash Floods

Point of Contact Person for this Action Estimated Time Frame for Completion Ongoing	Applies to new/existing asset(s)	Existing
Estimated Cost HMGP, Local Priority High Benchmark Riverview continues participating in the National Flood Insurance Program. Mitigation Action Promote the purchase of flood insurance coverage by property owners and renters in high-risk flooding areas. Type Property Protection Goal Establish a comprehensive countywide hazard mitigation system Hazard(s) Addressed Floods, Flash Floods Applies to new/existing asset(s) EMA Estimated Time Frame for Completion Ongoing Estimated Cost TBD Funding Sources Local Government Priority High Benchmark Riverview continues promoting flood insurance. Mitigation Action Reduce Escambia County's risk from natural hazards Hazard(s) Addressed Floods, Flash Floods Applies to new/existing asset(s) Existing Property Protection Goal Reduce Escambia County's risk from natural hazards Hazard(s) Addressed Floods, Flash Floods Applies to new/existing asset(s) Existing Point of Contact Person for this Action Local Government, Flood Plain Manager Estimated Time Frame for Completion Ongoing Estimated Time Frame for Completion Unique Government Priority Low Benchmark Riverview continues drainage system maintenance. Mitigation Action Maintain a library of technical assistance and guidance materials to support the local flood plain manager.	Point of Contact Person for this Action	Flood Plain Manager
Funding Sources Priority High Benchmark Riverview continues participating in the National Flood Insurance Program. Mitigation Action Property Protection Funding Sources Point of Contact Person for this Action Priority Projection Establish a comprehensive countywide hazard mitigation system Estimated Time Frame for Completion Property Protection Estimated Cost Property Protection Estimated County's risk from natural hazards Property Protection Property Protection Coal Reduce Escambia County's risk from natural hazards Property Protection Estimated Time Frame for Completion Property Protection Property Protection Coal Reduce Escambia County's risk from natural hazards Property Protection	Estimated Time Frame for Completion	Ongoing
Priority High	Estimated Cost	TBD
Riverview continues participating in the National Flood Insurance Program. Promote the purchase of flood insurance coverage by property owners and renters in high-risk flooding areas. Type	Funding Sources	HMGP, Local
Insurance Program. Mitigation Action Promote the purchase of flood insurance coverage by property owners and renters in high-risk flooding areas. Type Property Protection Goal Establish a comprehensive countywide hazard mitigation system Hazard(s) Addressed Floods, Flash Floods Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion Ongoing Estimated Cost TBD Funding Sources Local Government Priority High Benchmark Riverview continues promoting flood insurance. Mitigation Action Prepare and implement standard operating procedures for drainage system maintenance. Type Property Protection Goal Reduce Escambia County's risk from natural hazards Hazard(s) Addressed Floods, Flash Floods Applies to new/existing asset(s) Existing Point of Contact Person for this Action Local Government, Flood Plain Manager Estimated Time Frame for Completion Ongoing Estimated Time Frame for Completion Funding Sources HMGP, Local Government Priority Low Benchmark Riverview continues drainage system maintenance. Mitigation Action Maintain a library of technical assistance and guidance materials to support the local flood plain manager.	Priority	High
Type Property Protection Goal Establish a comprehensive countywide hazard mitigation system Hazard(s) Addressed Floods, Flash Floods Applies to new/existing asset(s) Existing Point of Contact Person for this Action EMA Estimated Time Frame for Completion Ongoing Estimated Cost TBD Funding Sources Local Government Priority High Benchmark Riverview continues promoting flood insurance. Mitigation Action Reduce Escambia County's risk from natural hazards Hazard(s) Addressed Floods, Flash Floods Applies to new/existing asset(s) Existing Point of Contact Person for this Action Local Government, Flood Plain Manager Estimated Time Frame for Completion Ongoing Estimated Time Frame for Completion Ongoing Estimated Cost TBD Funding Sources HMGP, Local Government Priority Low Benchmark Riverview continues drainage system maintenance. Mitigation Action His Action Low Maintain a library of technical assistance and guidance materials to support the local flood plain manager.	Benchmark	
Establish a comprehensive countywide hazard mitigation system	Mitigation Action	
Hazard(s) Addressed Floods, Flash Floods Applies to new/existing asset(s) Existing Point of Contact Person for this Action Estimated Time Frame for Completion Ongoing Estimated Cost Funding Sources Local Government Priority High Benchmark Riverview continues promoting flood insurance. Mitigation Action Prepare and implement standard operating procedures for drainage system maintenance. Type Property Protection Goal Reduce Escambia County's risk from natural hazards Hazard(s) Addressed Floods, Flash Floods Applies to new/existing asset(s) Existing Point of Contact Person for this Action Estimated Time Frame for Completion Ongoing Estimated Cost TBD Funding Sources HMGP, Local Government Priority Low Benchmark Mitigation Action Maintain a library of technical assistance and guidance materials to support the local flood plain manager.	Туре	Property Protection
Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion Estimated Cost Funding Sources Local Government Priority High Benchmark Riverview continues promoting flood insurance. Mitigation Action Prepare and implement standard operating procedures for drainage system maintenance. Type Property Protection Reduce Escambia County's risk from natural hazards Hazard(s) Addressed Floods, Flash Floods Applies to new/existing asset(s) Existing Point of Contact Person for this Action Estimated Time Frame for Completion Congoing Estimated Cost Flunding Sources HMGP, Local Government Friority Low Benchmark Mitigation Action Maintain a library of technical assistance and guidance materials to support the local flood plain manager.	Goal	1
Point of Contact Person for this Action Estimated Time Frame for Completion Ongoing Estimated Cost TBD Funding Sources Local Government Priority High Benchmark Riverview continues promoting flood insurance. Mitigation Action Prepare and implement standard operating procedures for drainage system maintenance. Type Property Protection Reduce Escambia County's risk from natural hazards Hazard(s) Addressed Floods, Flash Floods Applies to new/existing asset(s) Existing Point of Contact Person for this Action Local Government, Flood Plain Manager Estimated Time Frame for Completion Ongoing Estimated Cost Funding Sources HMGP, Local Government Priority Low Benchmark Mitigation Action Maintain a library of technical assistance and guidance materials to support the local flood plain manager.	Hazard(s) Addressed	Floods, Flash Floods
Estimated Time Frame for Completion Estimated Cost TBD Funding Sources Local Government Priority High Benchmark Riverview continues promoting flood insurance. Mitigation Action Prepare and implement standard operating procedures for drainage system maintenance. Type Property Protection Goal Reduce Escambia County's risk from natural hazards Hazard(s) Addressed Floods, Flash Floods Applies to new/existing asset(s) Existing Point of Contact Person for this Action Estimated Time Frame for Completion Ongoing Estimated Cost TBD Funding Sources HMGP, Local Government Priority Low Benchmark Riverview continues drainage system maintenance. Mitigation Action Maintain a library of technical assistance and guidance materials to support the local flood plain manager.	Applies to new/existing asset(s)	Existing
Funding Sources Local Government Priority High Renchmark Riverview continues promoting flood insurance. Mitigation Action Prepare and implement standard operating procedures for drainage system maintenance. Type Property Protection Reduce Escambia County's risk from natural hazards Hazard(s) Addressed Floods, Flash Floods Applies to new/existing asset(s) Existing Point of Contact Person for this Action Estimated Time Frame for Completion Ongoing Estimated Cost TBD Funding Sources HMGP, Local Government Priority Low Benchmark Riverview continues drainage system maintenance. Mitigation Action Maintain a library of technical assistance and guidance materials to support the local flood plain manager.	Point of Contact Person for this Action	EMA
Funding Sources Priority High Benchmark Riverview continues promoting flood insurance. Mitigation Action Prepare and implement standard operating procedures for drainage system maintenance. Property Protection Reduce Escambia County's risk from natural hazards Hazard(s) Addressed Floods, Flash Floods Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion Ongoing Estimated Cost TBD Funding Sources HMGP, Local Government Priority Low Benchmark Riverview continues drainage system maintenance. Mitigation Action Maintain a library of technical assistance and guidance materials to support the local flood plain manager.	Estimated Time Frame for Completion	Ongoing
Priority Benchmark Riverview continues promoting flood insurance. Mitigation Action Prepare and implement standard operating procedures for drainage system maintenance. Type Property Protection Reduce Escambia County's risk from natural hazards Hazard(s) Addressed Floods, Flash Floods Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion Dongoing Estimated Cost TBD Funding Sources HMGP, Local Government Priority Low Benchmark Riverview continues drainage system maintenance. Mitigation Action Maintain a library of technical assistance and guidance materials to support the local flood plain manager.	Estimated Cost	TBD
Benchmark Riverview continues promoting flood insurance. Mitigation Action Prepare and implement standard operating procedures for drainage system maintenance. Type Property Protection Reduce Escambia County's risk from natural hazards Hazard(s) Addressed Floods, Flash Floods Applies to new/existing asset(s) Existing Point of Contact Person for this Action Local Government, Flood Plain Manager Estimated Time Frame for Completion Ongoing Estimated Cost TBD Funding Sources HMGP, Local Government Priority Low Benchmark Riverview continues drainage system maintenance. Mitigation Action Maintain a library of technical assistance and guidance materials to support the local flood plain manager.	Funding Sources	Local Government
Mitigation Action Prepare and implement standard operating procedures for drainage system maintenance. Type Property Protection Reduce Escambia County's risk from natural hazards Floods, Flash Floods Applies to new/existing asset(s) Existing Point of Contact Person for this Action Estimated Time Frame for Completion Estimated Cost TBD Funding Sources HMGP, Local Government Priority Low Benchmark Riverview continues drainage system maintenance. Mitigation Action Maintain a library of technical assistance and guidance materials to support the local flood plain manager.	Priority	High
Type Property Protection Goal Reduce Escambia County's risk from natural hazards Hazard(s) Addressed Floods, Flash Floods Applies to new/existing asset(s) Existing Point of Contact Person for this Action Local Government, Flood Plain Manager Estimated Time Frame for Completion Ongoing Estimated Cost TBD Funding Sources HMGP, Local Government Priority Low Benchmark Riverview continues drainage system maintenance. Mitigation Action Maintain a library of technical assistance and guidance materials to support the local flood plain manager.	Benchmark	Riverview continues promoting flood insurance.
Goal Reduce Escambia County's risk from natural hazards Hazard(s) Addressed Floods, Flash Floods Applies to new/existing asset(s) Existing Point of Contact Person for this Action Local Government, Flood Plain Manager Estimated Time Frame for Completion Ongoing Estimated Cost TBD Funding Sources HMGP, Local Government Priority Low Benchmark Riverview continues drainage system maintenance. Mitigation Action Maintain a library of technical assistance and guidance materials to support the local flood plain manager.	Mitigation Action	
Hazard(s) Addressed Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion Estimated Cost TBD Funding Sources HMGP, Local Government Priority Low Benchmark Riverview continues drainage system maintenance. Mitigation Action Maintain a library of technical assistance and guidance materials to support the local flood plain manager.	Туре	Property Protection
Applies to new/existing asset(s) Point of Contact Person for this Action Estimated Time Frame for Completion Estimated Cost Funding Sources HMGP, Local Government Low Benchmark Riverview continues drainage system maintenance. Mitigation Action Maintain a library of technical assistance and guidance materials to support the local flood plain manager.	Goal	Reduce Escambia County's risk from natural hazards
Point of Contact Person for this Action Estimated Time Frame for Completion Congoing Estimated Cost TBD HMGP, Local Government Low Benchmark Riverview continues drainage system maintenance. Mitigation Action Maintain a library of technical assistance and guidance materials to support the local flood plain manager.	Hazard(s) Addressed	Floods, Flash Floods
Estimated Time Frame for Completion Estimated Cost TBD Funding Sources HMGP, Local Government Low Benchmark Riverview continues drainage system maintenance. Mitigation Action Maintain a library of technical assistance and guidance materials to support the local flood plain manager.	Applies to new/existing asset(s)	Existing
Estimated Cost TBD HMGP, Local Government Low Benchmark Riverview continues drainage system maintenance. Mitigation Action Maintain a library of technical assistance and guidance materials to support the local flood plain manager.	Point of Contact Person for this Action	Local Government, Flood Plain Manager
Funding Sources HMGP, Local Government Low Benchmark Riverview continues drainage system maintenance. Mitigation Action Maintain a library of technical assistance and guidance materials to support the local flood plain manager.	Estimated Time Frame for Completion	Ongoing
Priority Low Riverview continues drainage system maintenance. Mitigation Action Maintain a library of technical assistance and guidance materials to support the local flood plain manager.	Estimated Cost	
Benchmark Riverview continues drainage system maintenance. Mitigation Action Maintain a library of technical assistance and guidance materials to support the local flood plain manager.	Funding Sources	HMGP, Local Government
Mitigation Action Maintain a library of technical assistance and guidance materials to support the local flood plain manager.	Priority	
materials to support the local flood plain manager.	Benchmark	Riverview continues drainage system maintenance.
Type Public Education & Awareness	Mitigation Action	
	Type	Public Education & Awareness

Goal	Establish a comprehensive countywide hazard mitigation system
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA, Flood Plain Manager
Estimated Time Frame for Completion	2023
Estimated Cost	TBD
Funding Sources	HMGP, Local Government
Priority	Medium
Benchmark	Riverview continues supporting the local flood plain manager.
Mitigation Action	Distribute FEMA Publication 320 – <u>Taking Shelter</u> <u>From the Storm: Building a Safe Room in Your House</u> – to local homebuilders.
Туре	Public Education & Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	Thunderstorms, Tornadoes, Strong Winds, High Winds
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP, Local Government
Priority	High
Benchmark	Riverview continues distributing FEMA publications.
Mitigation Action	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.
Туре	Public Education & Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	Flood Plain Manager, EMA
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD

Funding Sources	HMGP, Local Government
Priority	Low
Benchmark	Riverview continues publicizing the availability of FIRM information.
Mitigation Action	Promote mitigation and severe weather awareness, through an annual severe weather awareness event.
Туре	Public Education & Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	All Hazards
Applies to new/existing asset(s)	New and Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP, Local Government
Priority	High
Benchmark	Riverview continues promoting mitigation and severe weather awareness by participating with the county on their annual severe weather awareness event.
Mitigation Action	Obtain free publications from FEMA, NWS, USGS, and other federal and state agencies and deposit these materials with local libraries.
Type	Public Education & Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	All Hazards
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP, Local Government
Priority	Low
Benchmark	Riverview continues obtaining and depositing materials with local libraries.
Mitigation Action	Distribute natural hazard mitigation brochures to area schools for distribution to students.
Туре	Public Education & Awareness

Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	All Hazards
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	Ongoing
Estimated Cost	TBD
Funding Sources	HMGP, Local Government
Priority	High
Benchmark	Riverview continues distributing hazard mitigation brochures.
Mitigation Action	Promote the use of weather radios in households and businesses.
Type	Public Education & Awareness
Goal	Foster public support and acceptance of hazard mitigation
Hazard(s) Addressed	All Hazards
Applies to new/existing asset(s)	New and Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	Ongoing
Estimated Cost	\$30 each
Funding Sources	HMGP, Local Government
Priority	High
Benchmark	Riverview continues promoting the use of weather radios.
Mitigation Action	Seek technical assistance through the Alabama Cooperative Extension System and/or the Alabama Forestry Commission with Best Management Practices (BMPs) for channel and drainage system maintenance.
Type	Natural Resources Protection
Goal	Reduce Escambia County's risk from natural hazards
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	Flood Plain Manager
Estimated Time Frame for Completion	2023
Estimated Cost	TBD
Funding Sources	HMGP, AL Cooperative Extension Service, AL Forestry Commission

Priority	Low
Benchmark	Riverview continues seeking technical assistance.
Mitigation Action	Purchase, install, and test emergency warning sirens, as needed. Upgrade existing equipment as needed.
Type	Emergency Services Protection
Goal	Establish a comprehensive countywide hazard mitigation system
Hazard(s) Addressed	All Hazards
Applies to new/existing asset(s)	New and Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2024
Estimated Cost	\$35,000 each
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	Riverview will purchase, install and test warning sirens as funds become available.
Mitigation Action	Purchase/update emergency generators for post-disaster mitigation and conduct routine tests on backup generators for all critical facilities.
Type	Emergency Services Protection
Goal	Reduce Escambia County's vulnerability to natural hazards
Hazard(s) Addressed	All Hazards
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2026
Estimated Cost	\$1,500 - \$35,000
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	Riverview will purchase and update emergency generators as funds become available.
Mitigation Action	Support the Alabama Skywarn Foundation's efforts to distribute weather radios to low-income households, especially in rural areas outside of siren coverage areas.
Type	Emergency Services Protection
Goal	Foster public support and acceptance of hazard mitigation

Hazard(s) Addressed	All Hazards
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	Ongoing
Estimated Cost	\$30 each
Funding Sources	HMGP
Priority	High
Benchmark	Riverview continues supporting efforts to distribute weather radios.
Mitigation Action	Encourage the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.
Туре	Structural Projects
Goal	Reduce vulnerability of new and future development
Hazard(s) Addressed	Thunderstorms, Tornados, Strong Winds, High Winds
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2025
Estimated Cost	\$125,000 each and up - TBD
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	Riverview continues encouraging the construction of safe rooms.
Mitigation Action	Encourage the construction of safe rooms in existing construction, to include retrofitting public schools with community shelters.
Туре	Structural Projects
Goal	Reduce Escambia County's vulnerability to natural hazards
Hazard(s) Addressed	Thunderstorms, Tornados, Strong Winds, High Winds
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2026
Estimated Cost	\$125,000 each and up - TBD
Funding Sources	HMGP, ADECA
Priority	High

Benchmark	Riverview continues encouraging the construction of safe rooms.
Mitigation Action	Construct/Install community safe rooms
Туре	Structural Projects
Goal	Reduce Riverview's vulnerability to natural hazards
Hazard(s) Addressed	Thunderstorms, Hail, Tornados, High Winds, Strong Winds
Applies to new/existing asset(s)	New and Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2025
Estimated Cost	\$125,000 each
Funding Sources	HMGP, ADECA
Priority	High
Benchmark	Riverview continues encouraging the construction of safe rooms.
Mitigation Action	Upgrade and/or install drainage structures in town
Туре	Structural Projects
Goal	Reduce Riverview's vulnerability to natural hazards
Hazard(s) Addressed	Floods, Flash Floods
Applies to new/existing asset(s)	Existing
Point of Contact Person for this Action	EMA
Estimated Time Frame for Completion	2025
Estimated Cost	TBD
Funding Sources	HMGP, Local
Priority	High
Benchmark	Riverview will upgrade/install drainage structures as funds become available.

B.8 Poa	rch Creek Commui	nity Action							
Aktion	Action	Hazard	Objective	Priority	Timeline	Responsible	Funding	Cost	Action
# L-1	Description Draft a policy for managing tribally sponsored outside activities to reduce exposure to lightning during these events	Addressed Lightning	Addressed Tribal policy for lightning protection during outside activities	High	Complete	Office Emergency Services Program	Source Departmental	Staff Time	Using the WeatherCall Service to detect lightning & provide warning
L-2	Draft a policy for tribal employees who work outside to provide guidelines for reducing the threat from lightning	Lightning	Provide education opportunities for lightening hazard reduction	High	Complete	Emergency Services Program and Human Resources Department	Departmental	Staff Time	In conjunction with the system in L1
L-3	Education materials on lightning safety will be made available to tribal members during public education venues such as the health department and tribal gatherings	Lightning	Provide education opportunities for lightning hazard reduction	High	On-going	Emergency Services Program	TBD	TBD	On-going education and warning during events through warnings if dangerous conditions occur
L-4	Partner with the	Lightning	Provide	High	Near	Emergency	None	Staff	Tribal Staff

L-4 New for 2018	National Weather Service(NWS) to make the community a Lightning Safe Community		education opportunities for lightning hazard reduction		Term	Services Program and Recreation Department	required	Time	Members to meet with NWS to institute a Lightning Safe Community Program
T-1	Develop a network of volunteers of trained storm spotters.	Tornado	Develop a system to increase information flow to the tribal emergency management program to allow for rapid decision making, based upon accurate storm information to maximize warning times for tornadoes	High	Near Term	Emergency Services Program	Departmental	Staff Time/ NMS	
T-2	Enhanced storm warning system	Tornado	Expand and enhance the existing storm warning system to provide better coverage	High	Near Completi on	Emergency Services	Departmental	By Tribe	Installation of speaker arrays throughout the community to allow plain language

									warnings; more phones in the community now host the WeatherCall Service
T-3	Installation of storm shelters for their members	Tornado Hurricane	Provide storm shelters for tribal members	High	On-going On-going	Emergency Services Program	Grants/ Tribal Funds	Unk.	Tornado/Storm Shelters have been installed at locations throughout the community and this process is planned to continue. The policy for the shelters was being approved by the Legal Department. The Community Center that opened in 2018 has safe room with capacity of 300 people, Police Station now has hardened dispatch area,

									Fire Department Staff have identified to Tribal Staff the safest areas of refuge in all tribal buildings
HW-1	Develop a tribal policy for future construction of tribal buildings requiring them to be built to a standard that is resistant to high winds	All high wind events	Develop enhanced tribal building standards for future construction of tribal facilities.	High	On-Going	Tribal Council/ Legal Department	Staff Time	By Tribe	New buildings have been built with hardened areas for refuge from severe weather. The Fire Department is involved in the planning of future buildings to look at safer design options.
HW-2	Retrofit buildings to bring them up to a safe design standard. Upgrading roofing materials and installing high impact glass on Tribal Rental	All High Wind events	Retro fit existing building to make them more resistant to high winds.	High	On-going	Facilities Department	Departmental	By Tribe	The Housing Department is changing roofing materials from shingles to metal roofs. Doors for Fire Stations #1 and

	Houses.								#2 upgraded to high wind capacity doors. Utilities Department has changed from using trash cans to dumpsters for Tribal Housing.
HU-1	Develop enhanced tribal building standards for future construction of tribal facilities. Retro fit existing building to make them more resistant to hurricanes and tropical storms.	Hurricanes	Develop enhanced tribal building standards for future construction of tribal facilities. Retro fit existing building to make them more resistant to hurricanes and tropical storms.	High	On-going	Facilities Department	Departmental	Unk	See actions completed for high winds.

HU-2	Develop shelter operations for tribal members for refuge during hurricanes and tropical storms and their aftermath. Provide adequate back-up power to critical facilities.	Hurricanes	Take measures to enhance the safety and comfort of tribal members during hurricanes and tropical storms.	High	On-going	Family Services Department, Facilities Department	Departmental	By Tribe	Generators have been installed for critical facilities including sewer lift stations. Tribal Facilities Department manages all generators and has a contract for maintenance and repairs.
HU-3 New 2018	Planning for operations during hurricanes	Hurricanes	Take measures to enhance the safety and comfort of tribal members during hurricanes and tropical storms.	High	On-going	Emergency Services	Departmental	By Tribe	Tribal Staff conducted meetings on hurricane preparedness; Tribe will participate in tabletop exercise on May 30, 2018; Tribe has been invited to participate in the FEMA Administrator's Hurricane

									Tabletop. The Tribe work closely with the NWS Office on all severe weather events.
ET-1	The tribal health department will identify people at risk during high heat events.	Extreme temperature s	Develop a tribal policy to address community needs in extreme temperature situations	High	On-Going	Tribal Health Department	Departmental	Staff Time	The Fire Department and the Wellness Center have partnered to advise individuals on what they need to do prior to outdoor activities such as ball tournaments and other sports events.
ET-2	The tribe will designate what facilities will be used as cooling stations, properly equip those stations for use, and train staff in	Extreme temperature s	Tribal designation and preparation of facilities and staff to be used for and at cooling	High	On-Going	Tribal Health Department, Housing, Elder Program, Emergency Services Fire	Departmental	Staff Time	The Fire Department provides EMS standby for extreme heat conditions at large tribal gatherings and

	appropriate skills. EMS will check on high-risk people and move them to designated cooling stations if necessary.		stations for vulnerable populations during high heat conditions.			Department			off-reservation activities.
WF-1	Work with Alabama Department of Forestry on housing standards including types of shingles, clearing brush, etc.	Wildfires	Educate homeowners about safe building materials and landscape practices	Med	On-Going	Fire Department, Housing	Staff Time	By Tribe	The Tribe has a full time Land Management Department that manages seasonal burning and other related subjects.
WF-2	Perform periodic aerial surveys of wooded land to locate new homes and other structures and identify their location with GPS coordinates and maps.	Wildfires	Enhance situational awareness for firefighters relating to location of buildings, firefighters and enhanced communicatio	High	On-Going	Housing Authority/ Fire Department	Departmental	By Tribe	Mobile data terminals are being purchased for Fire Personnel so they can access local maps in real time.

			ns.						
WF-3	Purchase of portable holding tanks and bladders for water to fight wild fires.	Wildfires	Procure adequate fire- fighting equipment and supplies for wild fire operations.	Med	On-Going	Fire Department	Departmental and Grants	Unkl	
Fl-1	Complete a new comprehensive drainage study done for all tribal properties to identify potential flooding problems and to recommend mitigations for those areas.	Flooding	Educate the community on the hazards of flooding	High	On-Going	Facilities/ Housing Authority	Departmental And Grants	Unk	Drainage study is being completed in 2018.
Fl-2	Provide education to the public through community organizations.	Flooding	Prepare and Equip the tribal emergency services program for flooding and	Med	On-Going	Fire Department	Departmental And Grants	Unk	

			swift water rescue						
F1-3	Obtain training and equipment for the tribal emergency services program to make them ready for flooding and swift water rescue.	Flooding	Prepare and equip the tribal emergency services program for flooding and swift water rescue.	High	On-Going	Fire Department	Departmental And Grants	TBD	
FL-4	Purchase Tiger Dam System for flood prone areas to mitigate damage from flooding.	Flooding	Determine solutions for alleviating flooding in those areas prone to flooding	Med	Near Term			TBD	Purchase and deploy Tiger Dam System in flood prone areas.
D-1	The tribal utility program will develop policies, informational and educational materials for	Drought	Develop water conservation procedures	Med	On-Going	Cultural Authority	Departmental And Grants	Unk	

	tribal utility users to educate them on water conservation practices.								
D-2	Develop wells or other sources of water that can be used to supplement the existing water source	Drought	Develop back up sources of water that are less subject to drought impact. The Utilities department would like to develop a water interconnect system between the Poarch Creek Indians Utilities and other system agencies to provide adequate supplies of water to the community the prison	High	On-Going	Utilities Department	Departmental and Grants	Unk	

			system, and schools in the area during and after a natural or man-made disaster						
D-3	See Actions under Wild Fires for reducing wildfire risks	Drought	Develop procedures to reduce risk from wild fires related to drough.t	Med	On-Going	Utilities Department and Fire Department	Departmental and Grants	Unk	
C-1	Protect cultural resources along the Tallapoosa River	Cultural	Develop a river-bank stabilization project to stabilize the bank on the Tallapoosa River to protect vulnerable cultural resources in the area.	High	On-Going	Cultural Authority	Departmental and Grants	Unk	
C-2	Protect resources in the tribal museum from	Cultural	Replace the existing fire suppression system with	High	On-Going	Cultural Authority	Departmental and Grants	Unk	

	water damage.		one that is suitable for a museum setting. Provide back up power for museum protection systems.						
AS-1	Perform security assessments of Tribal facilities	Active Shooter/ Violent Intruder	Provide a safer environment in Tribal Facilities as it relates to the threat of an Active Shooter	High	Near Term	Emergency Services	Tribal	TBD	Security assessments to be performed by qualified entity
AS-2	Upgrade Security at Tribal facilities to provide increased protection from the threats	Active Shooter/ Violent Intruder	Provide a safer environment in Tribal Facilities as it relates to the threat of an Active	High	Near Term	Emergency Services	Tribal	TBD	Upgrade security procedures and equipment

			Shooter						
AS-3	Provide educational opportunities to Tribal Staff and Tribal Members for recognition of threats and how to respond to an Active Shooter/Violent Intruder	Active Shooter/ Violent Intruder	Increase the knowledge of Tribal Employees and Tribal Members on the threats of Active Shooter/Viol ent Intruder situations, possible means to prevent situations and how to react when in a situation	High	Near Term	Emergency Services	Tribal	TBD	Provide training by qualified entity
EQ-1	Develop enhanced tribal building standards for future construction of tribal facilities.	Earthquakes	Protect people from injury and property from damage caused by earthquakes	Medium	On-Going	Facilities Department	Departmental	Ukn.	The Tribe continues to look at new building codes and standards and adopts new standards as they are developed.
WS - 1	Open tribal	Winter	Reduce the	Low	Upon	Emergency	Tribal	Ukn.	The Tribe will

	warming shelters during periods of power outages.	Storms	impact of winter storms on people.		Demand	Services			utilize existing tribal facilities with back-up power as shelters during periods of power outages during winter storms.
WS - 2	Utilize ice melting materials on sidewalks at tribal facilities.	Winter Storms	Reduce the impact of winter storms on people.	Low	Upon Demand	Facilities Department	Departmental	Ukn.	Facilities Management will use de- icing agents to clear sidewalks and other areas for pedestrian use.
HA- 1	Utilization of warning systems and storm shelters	Hail	Protect people from injury caused by hail	Low	Upon Demand	Emergency Services	Tribal	Unk.	Emergency Services will issue warnings to the community and manage shelters
HA - 2	Utilization of building codes	Hail	Protect property from hail damage	Low	On-Going	Facilities Department	Departmental	Unk.	Facilities will continue to adopt and enforce building codes.

Appendix C – Mobile County Community Action Plans

C.1 Mobile County Community Action Program

Mobile	County Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1	Goal for Prevention. Manage the development of land and buildi	ngs to minimize risks of lo		zards.	_	
1.1	Comprehensive Plans and Smart Growth. Establish an active co sustainable community development.	mprehensive planning pro	gram that is consist	ent with Smart G	rowth princip	les of
1.1.1	Prepare a five-year capital improvements plan (CIP) to include capital projects that implement the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	Building Official	Medium	Mid-Range	Local Funds	TBD
1.2	Geographic Information Systems (GIS). Maintain a comprehensi facilities inventories.	ve database of hazards loc	cations, socioeconol	mic data, infrastru	ucture, and c	ritical
1.2.1	Maintain a centralized, countywide natural hazards and risk assessment database in GIS that is accessible to local planners and emergency management personnel; including such data as, flood zones, geohazards, major drainage structures, dams/levees, hurricane surge areas, tornado tracks, disaster events and their extents, and a comprehensive inventory of critical facilities within all jurisdictions.	City of Mobile GIS Dept.	Low	Mid-Range	НМА	TBD
1.2.2	Integrate FEMA HAZUS-MH applications for hazard loss estimations within local GIS programs. Maintain up-to-date data within GIS to apply the full loss estimation capabilities of HAZUS.	City of Mobile GIS Dept.	Low	Mid-Range	FEMA HMA Grant	TBD

Mobile	County Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1.2.3	Mark depths of flooding and storm surge immediately after each event. Enter and maintain these historical records in GIS.	City of Mobile GIS Dept.	High	Long- Range/Ongoing	Local Funds	TBD
1.3	Planning Studies. Conduct special studies, as needed, to identi	fy hazard risks and mitigat	tion measures.			
1.3.1	Carry out detailed planning and engineering studies for sub- basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Local Floodplain Manager	Medium	Long-Range	FEMA HMA Grant	TBD
1.3.2	Identify existing culturally or socially significant structures and critical facilities within Mobile County that have the most potential for losses from natural hazard events and identify needed structural upgrades.	Building Official	Low	Long-Range	TBD	TBD
1.3.5	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	City Engineer	Medium	Long-Range	FEMA HMA Grant	TBD
1.4	Zoning. Establish effective zoning controls, where applicable, to development.	vulnerable land areas to o	discourage environn	nentally incompati	ible land use	and
1.4.1	Consider large lot size restrictions on flood prone areas designated on Flood Insurance Rate Maps.	County Commission	Medium	Short-Range	Local Funds	TBD
1.4.2	Evaluate additional land use restrictions within designated flood zones, such as prohibition of storage of buoyant materials, storage of hazardous materials, restrictive development of flood ways, among others.	County Commission	Medium	Short-Range	Local Funds	TBD

Mobile	County Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1.4.3	Require delineation of flood plain fringe, floodways, and wetlands on all plans submitted with a permit for development within a flood plain.	County Commission	Medium	Mid-Range	Local Funds	TBD
1.4.4	Enact local ordinance that require community storm shelters within sizeable mobile home parks and subdivisions.	County Commission	Medium	Mid-Range	Local Funds	TBD
1.5	Open Space Preservation. Minimize disturbances of natural land natural features such as open space for parks, conservation are			rough regulations	that mainta	in critical
1.5.1	Examine regulatory options and feasibility of requiring open space areas for recreation, landscaping, and drainage control.	County Commission	Medium	Mid-Range	Local Funds	TBD
1.6	Flood Plain Management Regulations. Effectively administer an	d enforce local floodplain	management regula	tions.		
1.6.1	Train local flood plain managers through programs offered by the State Flood Plain Coordinator and FEMA's training center in Emmitsburg, Maryland.	Local Floodplain Manager	High	Long- Range/Ongoing	Local Funds	TBD
1.6.2	Maintain a library of technical assistance and guidance materials to support the local floodplain manager.	Local Floodplain Manager	Medium	Ongoing	Local Funds	TBD
1.6.3	Promote the adoption of uniform flood hazard prevention ordinance among all NFIP communities. The ordinance standards should encourage flood plain management that maintains the natural and beneficial functions of flood plains by maximizing the credits that could be obtained for "Higher Regulatory Standards" under the Community Rating System (CRS) Program.	Local Floodplain Manager	High	Mid-Range	FEMA HMA Grant	TBD

Mobile	County Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1.6.4	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association of Flood Plain Managers and encourage active participation.	Local Floodplain Manager	High	Short-Range	Local Funds	TBD
1.6.5	Participate in the "Turn Around Don't Drown" program by purchasing and installing signs in known flash flood bridge overpass locations.	Local Floodplain Manager	Medium	Short-Range	Other	TBD
1.6.6	Improve flood risk assessment by documenting high water marks post event, verifying FEMA's repetitive loss inventory, and revising/updating regulatory floodplain maps.	Local Floodplain Manager	Medium	Short-Range	TBD	TBD
1.7	Building and Technical Codes. Review local codes for effectiven damages.	less of standards to protect	ct buildings and infra	astructure from na	tural hazard	
1.7.1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	Building Official	High	Ongoing	Local Funds	TBD
1.7.2	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of "hurricane clips."	Building Official	High	Short-Range	Local Funds	TBD

Mobile	County Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1.7.3	Relocate existing utility lines underground, where feasible and cost effective, and require, through local subdivision and land development regulations, the placement of all new utility lines underground for large residential subdivisions and commercial developments.	County Commission	High	Long-Range	TBD	TBD
1.7.5	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	Building Official	High	Short-Range	Local Funds	TBD
1.7.6	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.		High	Ongoing	FEMA HMA Grant	TBD
1.8	Landscape Ordinances. Establish minimum standards for planti aesthetics.	ng areas for trees and veg	letation to reduce sto	orm water runoff a	ind improve	urban
1.8.1	Review and revise as necessary, landscaping standards for parking lots that reduce the size of impervious surfaces and encourage natural infiltration of rainwater.	County Commission	Low	Mid-Range	Local Funds	TBD
1.10	Dam Safety Management. Establish a comprehensive dam safet	ty program.				
1.10.1	Support legislation to establish a State dam safety program.	County Commission	Low	Mid-Range	Local Funds	TBD
1.11	Community Rating System Program (CRS). Increase participation	n of NFIP member commu	inities in the CRS Pro	ogram.		
1.11.1	Apply for/maintain membership in the CRS Program; continue to upgrade rating.	Local Floodplain Manager	High	Short-Range	Local Funds	TBD

County Community Action Program					
Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
			ntrol and retrofit r	neasures to r	educe
Perform vulnerability assessments of critical facilities to identify		_			
retrofit projects to improve the safety of occupants and mitigate damages from hazards.	Building Official	Low	Long-Range	Local Funds	TBD
Conduct wildfire vulnerability assessments, including the				FEMA	
vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive inventory to identify high and moderate wildfire risk areas.	Building Official	Medium	Mid-Range	HMA Grant	TBD
Goal for Property Protection: Protect structures and their occupa	ants and contents from the	e damaging effects o	of natural hazards	i.	
	reas to safeguard against	damages and estab	lish permanent o	pen space.	
				FEMA	
·	Building Official	High	Short-Range	HMA	TBD
building elevation.				Grant	
Acquisition. Acquire flood prone buildings and properties and e	stablish permanent open	space.			
Pursue grant funds to acquire and demolish flood prone or	D !!!! Off !!		0	FEMA	
substantially damaged structures and replace with permanent open space.	Building Official	High	Short-Range	HMA Grant	TBD
	Critical Facilities Assessments. Perform assessments of critical special needs housing, and others) to address building and site vulnerability to damage and disruption of operations during seven Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards. Conduct wildfire vulnerability assessments, including the vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive inventory to identify high and moderate wildfire risk areas. Goal for Property Protection: Protect structures and their occupance of the properties of the properties of the property and their occupance of the property and the property acquisition or building elevation. Acquisition. Acquire flood prone buildings and properties and elevation or substantially damaged structures and replace with permanent	Goal, Objectives and Mitigation Measures Critical Facilities Assessments. Perform assessments of critical facilities (hospitals, schoolspecial needs housing, and others) to address building and site vulnerabilities to hazards, vulnerability to damage and disruption of operations during severe weather and disaster experience of the vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards. Conduct wildfire vulnerability assessments, including the vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive inventory to identify high and moderate wildfire risk areas. Goal for Property Protection: Protect structures and their occupants and contents from the Building Relocation. Relocate buildings out of hazardous flood areas to safeguard against flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation. Acquisition. Acquire flood prone buildings and properties and establish permanent open Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent Building Official	Goal, Objectives and Mitigation Measures Critical Facilities Assessments. Perform assessments of critical facilities (hospitals, schools, fire and police si special needs housing, and others) to address building and site vulnerabilities to hazards, identify damage co vulnerability to damage and disruption of operations during severe weather and disaster events. Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards. Conduct wildfire vulnerability assessments, including the vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive inventory to identify high and moderate wildfire risk areas. Goal for Property Protection: Protect structures and their occupants and contents from the damaging effects of the properties o	Goal, Objectives and Mitigation Measures Page Page	Goal, Objectives and Mitigation Measures Page Page

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years	rnan 5 years Funding Source	Estimated Cost
2.2.2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Building Official	High	Short-Range	FEMA HMA Grant	TBD
2.3	Building Elevation. Elevate buildings in hazardous flood areas to	o safeguard against dama	iges.			
2.3.1	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD
2.3.2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD
2.4	Flood Proofing. Encourage flood proofing of buildings in hazard	lous flood areas to safegu	ıard against dama	ges.		
2.4.1	Pursue FEMA grant funds for flood proofing pre-FIRM non-residential buildings, where feasible.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD
2.5	Flood Control Measures. Construct small flood control measure	s to reduce/prevent flood	damage.			
2.5.1	Examine use of minor structural projects (small berm or floodwalls) in areas that cannot be mitigated through non-structural mitigation techniques.	Building Official	Low	Long-Range	FEMA HMA Grant	TBD

Mobile	County Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
2.6.1	Retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	Building Official	Medium	Short-Range	Local Funds	TBD
2.6.2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	Building Official	Medium	Short-Range	Local Funds	TBD
2.7	Hazard Insurance Awareness. Increase public awareness of floo and other damages typically not covered by standard property p		ders that may be red	quired for earthqu	ake, landslic	le, sinkhole,
2.7.1	Promote the purchase of insurance coverage by property owners and renters for flood damages in high-risk areas.	Local Floodplain Manager	High	Ongoing	Local Funds	TBD
2.8	Critical Facilities Protection. Protect critical facilities from poten relocations of existing facilities located in high-risk zones or con	•			_	ofits or
2.8.1	Install lightning and/or surge protection on existing critical facilities.	Building Official	Low	Long-Range	TBD	TBD
2.9	Backup Power. Ensure uninterrupted power supply for critical fa	acilities during emergency	events.			
2.9.1	Pursue grant funding for the installation of backup power generators for critical facilities.	Building Official	High	Short-Range	FEMA HMA Grant	TBD
3	Goal for Public Education and Outreach. Educate and inform the life and property.	public about the risks of	hazards and the mea	asures available to	o reduce thr	eats to
3.1	Map Information. Increase public access to Flood Insurance Rate	te Map (FIRM) information				

Mobile	County Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
3.1.1	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	Building Official	Low	Mid-Range	Local Funds	TBD
3.2	Outreach Projects. Conduct regular public events to inform the	public of hazards and miti	gation measures.			
3.2.1	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Mobile County EMA	High	Ongoing	Local Funds	TBD
3.2.2	Distribute materials, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	Mobile County EMA	High	Ongoing	Local Funds	TBD
3.2.3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	County Commission	Low	Long-Range	Local Funds	TBD
3.3	Library. Use local library resources to educate the public on ha	zard risks and mitigation a	Iternatives.			
3.3.1	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.	Mobile County EMA	Medium	Mid-Range	Local Funds	TBD
3.3.2	Consider the enactment of a local ordinance or state law to require floodplain disclosure when a property is for sale.	Local Floodplain Manager	Medium	Mid-Range	Local Funds	TBD
		i e		1		

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more	Tunding Source	Estimated Cost
	Community Hazard Mitigation Plan Distribution. Distribute the ha	_	Cted officials in			
3.4	businesses, and residents, using all available means of publication		octed officials, if	nerested agencies a	na organizat	10113,
3.4.1	Distribute the 2015 plan to local officials, stakeholders, and interested individuals through internet download.	Mobile County EMA	High	Short-Range	Local Funds	TBD
3.5	Weather Radios. Improve public access to weather alerts.					
3.5.1	Promote the use of weather radios in households and businesses.	Mobile County EMA	High	Short-Range	Local Funds	TBD
3.6	Disaster Warning. Improve public warning systems.					
3.6.1	Establish an ALERT flood warning system at strategic locations in the county, including at a minimum, sensors that provide real-time access to stream flow, stream stage, and precipitation data.	Mobile County EMA	High	Short-Range	FEMA HMA Grant	TBD
3.6.2	Ensure that the ALERT warning system links data into GIS with the ability to use measured and forecasted rainfall to predict potential flood levels and create real-time maps of flooded areas.	Mobile County EMA	High	Short-Range	FEMA HMA Grant	TBD
3.6.3	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	Mobile County EMA	High	Short-Range	FEMA HMA Grant	TBD
3.6.4	Upgrade critical communications infrastructure.	Mobile County EMA	High	Short-Range	FEMA HMA Grant	TBD

Mobile	County Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years	Long-Range=more than 5 years Funding Source	Estimated Cost
3.7	Technical Assistance. Make qualified local government staff alternatives.	f available to advise prope		us hazard risks ar	nd mitigation	
3.7.1	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Floodplain Manger	Medium	Short-Range	Local Funds	TBD
3.8	Mass Media Relations. Utilize all available mass media, such on-line social networking to increase public awareness and				sts, video sl	naring, and
3.8.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	County Commission	Medium	Ongoing	Local Funds	TBD
3.9	Weather Radios. Improve public access to weather alerts.					
3.9.1	Promote the use of weather radios in households and businesses.	Mobile County EMA	High	Short-Range	Local Funds	TBD
3.10	<u>Disaster Warning</u> . Improve public warning systems.					
3.10.1	Establish an ALERT flood warning system at strategic locations in the county, including at a minimum, sensors that provide real-time access to stream flow, stream stage, and precipitation data.	Mobile County EMA	High	Mid-Range	FEMA HMA Grant	TBD
3.10.2	Ensure that the ALERT warning system links data into GIS with the ability to use measured and forecasted rainfall to predict potential flood levels and create real-time maps of flooded areas.	Mobile County EMA	High	Mid-Range	FEMA HMA Grant	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years	Long-Range=more than 5 years Funding Source	Estimated Cost
3.10.3	Evaluate the feasibility of a shared tri-county ALERT system covering Baldwin, Escambia, and Mobile counties.	County Commission	Low	Long-Range	FEMA HMA Grant	TBD
3.10.5	Upgrade critical communications infrastructure.	County Commission	High	Long-Range	TBD	TBD
	Goal for Natural Resources Protection. Preserve and restore the	beneficial functions o		ronment to promot	e sustainable co	mmunity
4	Goal for Natural Resources Protection. Preserve and restore the development that balances the constraints of nature with the so Open Space Easements and Acquisitions. Acquire easements a plains, and wetlands to assure permanent protection of these nature.	cial and economic den	of the natural envi nands of the com	munity.		
4	development that balances the constraints of nature with the so <u>Open Space Easements and Acquisitions.</u> Acquire easements a	cial and economic den	of the natural envi nands of the com	munity.	ds, such as hillsi FEMA	
4 .1.1	Open Space Easements and Acquisitions. Acquire easements a plains, and wetlands to assure permanent protection of these nature open space acquisitions through the FEMA HMA Grant	nd fee-simple ownershatural resources. County Commission	f the natural environands of the comi	tally beneficial land Short-Range	FEMA	des, flood
.1	Open Space Easements and Acquisitions. Acquire easements a plains, and wetlands to assure permanent protection of these national lineral plains, and other flood plain acquisition efforts.	nd fee-simple ownershatural resources. County Commission	f the natural environands of the comi	tally beneficial land Short-Range	FEMA	des, flood

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
4.3.1	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).	County Commission	Medium	Mid-Range	Local Funds	TBD
4.3.2	Increase overall green spaces in cities by planting hurricane resistant trees with site and location taken into consideration.	County Commission	Medium	Mid-Range	Local Funds	TBD
4.4	Beach and Dune Protection/Renourishment. Protect beaches a programs.	nd dunes from coastal and	man-made erosi	on and implement ren	ourishmen	t
4.4.1	Restore and protect wetlands to enhance stormwater drainage.	County Commission	Medium	Mid-Range	Local Funds	TBD
			1	Law or Dawner		
1.4.2	Develop a coastal renourishment program.	County Commission	Low	Long-Range	Other	TBD
	Water Resources Conservation Programs. Protect water quantidroughts and assure uninterrupted potable water supplies.	·				
4.5	Water Resources Conservation Programs. Protect water quanti	·				
4.5	Water Resources Conservation Programs. Protect water quanti droughts and assure uninterrupted potable water supplies. Enforce water use restrictions during periods of drought to	ty and quality through water County Commission ications to natural systems	er conservation p Medium s and public infra	Long-Range	he effects of Local Funds	TBD
4.5 .5.1	Water Resources Conservation Programs. Protect water quanti droughts and assure uninterrupted potable water supplies. Enforce water use restrictions during periods of drought to conserve existing water supplies. Goal for Structural Projects. Apply engineered structural modif	County Commission ications to natural systems and environmentally suitable	Medium s and public infra	Long-Range	he effects of Local Funds	TBD

Mobile	County Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years		Estimated Cost
5.2.1	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Building Official/County Commission	High	Mid-Range	FEMA HMA Grant	TBD
5.3	Community Shelters and Safe Rooms. Provide shelters from nat	tural hazards for the safety	of community resid	lents.		
5.3.1	Construct at least one multi-jurisdictional First Responder Shelter.	County Commission	High	Long-Range	FEMA HMA Grant	TBD
5.3.2	Evaluate community shelter needs and establish a program for community storm shelter room construction in appropriate locations.	County Commission	High	Long-Range	FEMA HMA Grant	TBD
5.3.3	Encourage the construction of safe rooms in new and existing homes and buildings.	County Commission	High	Long-Range	FEMA HMA Grant	TBD

C.2 Bayou La Batre Community Action Program

City of	Bayou La Batre Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-range=less than 2 years Mid-term=2-5 years Long-range=more than 5 years	Funding Source	Estimated Cost
1	Goal for Prevention. Manage the development of land and building the comprehensive Plans and Smart Growth. Establish an active control of the				owth princip	oles of
1.1	sustainable community development.	impremensive planning pro	gram that is consis	tent with Smart Gr	owai pinici)ies 01
1.1.1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.	Building Official	Low	Long- Range/Ongoing	Local funds	TBD
1.1.2	Integrate the findings and recommendations of this plan into comprehensive plan amendments for jurisdictions with active comprehensive planning programs.	Building Official	Low	Long- Range/Ongoing	Local funds	TBD
1.1.3	Prepare a five-year capital improvements plan (CIP) to include capital projects that implement the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	Mayor and Council	Medium	Mid-Range	Local funds	TBD

City of	Bayou La Batre Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-range=less than 2 years Mid-term=2-5 years Long-range=more than 5 years	Funding Source	Estimated Cost
1.2	Geographic Information Systems (GIS). Maintain a comprehensi facilities inventories.	ve database of hazards loo	cations, socioecono	mic data, infrastru	icture, and c	ritical
1.2.1	Maintain a centralized, countywide natural hazards and risk assessment database in GIS that is accessible to local planners and emergency management personnel, including such data as, flood zones, geohazards, major drainage structures, dams/levees, hurricane surge areas, tornado tracks, disaster events and their extents, and a comprehensive inventory of critical facilities within all jurisdictions.	Mobile County EMA	Low	Mid-Range	НМА	TBD
1.2.2	Integrate FEMA HAZUS-MH applications for hazard loss estimations within local GIS programs. Maintain up-to-date data within GIS to apply the full loss estimation capabilities of HAZUS.	Mobile County EMA	Low	Mid-Range	FEMA HMA Grant	TBD
1.3	Planning Studies. Conduct special studies, as needed, to identi	fy hazard risks and mitiga	tion measures.			
1.3.1	Carry out detailed planning and engineering studies for sub- basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Local Floodplain Manager/	Medium	Long-Range	FEMA HMA Grant	TBD
1.3.2	Identify existing culturally or socially significant structures and critical facilities within Mobile County that have the most potential for losses from natural hazard events and identify needed structural upgrades.	Building Official	Low	Long-Range	TBD	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-range=less than 2 years Mid-term=2-5 years Long-range=more than 5 years	Funding Source	Estimated Cost
1.3.3	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	Building Official	Low	Long-Range	TBD	TBD
1.3.4	Inventory and map existing fire hydrants throughout the county, and identify areas in need of new fire hydrants.	Building Official	Low	Long-Range	TBD	TBD
1.3.5	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	City Engineer	Medium	Long-Range	FEMA HMA Grant	TBD
1.4	Zoning. Establish effective zoning controls, where applicable, to development.	vulnerable land areas to	discourage environ	mentally incompat	ible land use	e and
1.4.1	Consider large lot size restrictions on flood prone areas designated on Flood Insurance Rate Maps.	Mayor and Council	Medium	Short-Range	Local funds	TBD
1.4.2	Evaluate additional land use restrictions within designated flood zones, such as prohibition of storage of buoyant materials, storage of hazardous materials, and restrictive development of flood ways, among others.	Mayor and Council	Medium	Short-Range	Local funds	TBD
1.4.3	Require delineation of flood plain fringe, floodways, and wetlands on all plans submitted with a permit for development within a flood plain.	Mayor and Council	Medium	Short-Range	Local funds	TBD
1.4.4	Enact local ordinance that require community storm shelters within sizeable mobile home parks and subdivisions.	Mayor and Council	High	Short-Range	Local funds	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-range=less than 2 years Mid-term=2-5 years Long-range=more than 5 years		Estimated Cost
1.5	Open Space Preservation. Minimize disturbances of natural land natural features such as open space for parks, conservation are			rough regulations	that maintai	n critical
1.5.1	Examine regulatory options and feasibility of requiring open space areas for recreation, landscaping, and drainage control.	Mayor and Council	Medium	Mid-Range	Local funds	TBD
1.6	Flood Plain Management Regulations. Effectively administer an	d enforce local floodplain	management regula	tions.		
1.6.1	Train local flood plain managers through programs offered by the State Flood Plain Coordinator and FEMA's training center in Emmitsburg, Maryland.	Local Floodplain Manager	High	Long- Range/Ongoing	Local funds	TBD
1.6.2	Maintain a library of technical assistance and guidance materials to support the local floodplain manager.	Local Floodplain Manager	Medium	Ongoing	Local funds	TBD
1.6.3	Promote the adoption of uniform flood hazard prevention ordinance among all NFIP communities. The ordinance standards should encourage flood plain management that maintains the natural and beneficial functions of flood plains by maximizing the credits that could be obtained for "Higher Regulatory Standards" under the Community Rating System (CRS) Program.	Local Floodplain Manager	High	Mid-Range	FEMA HMA Grant	TBD
1.6.4	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association of Flood Plain Managers and encourage active participation.	Local Floodplain Manager	High	Short-Range	Local funds	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-range=less than 2 years Mid-term=2-5 years Long-range=more than 5 years	Funding Source	Estimated Cost
1.6.5	Participate in the "Turn Around Don't Drown" program by purchasing and installing signs in known flash flood bridge overpass locations.	Local Floodplain Manager	Medium	Short-Range	Other	TBD
1.6.6	Improve flood risk assessment by documenting high water marks post event, verifying FEMA's repetitive loss inventory, and revising and updating regulatory floodplain maps.	Local Floodplain Manager	Medium	Short-Range	TBD	TBD
1.7	Building and Technical Codes. Review local codes for effectiven damages.	ess of standards to prote	ct buildings and infr	astructure from na	atural hazar	d
1.7.1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	Building Official	High	Ongoing	Local funds	TBD
1.7.2	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of "hurricane clips."	Building Official	High	Short-Range	Local funds	TBD
1.7.4	Ensure that fire safety ordinances properly regulate open burning, the use of liquid fuel, and electric space heaters.	Building Official	Low	Mid-Range	Local funds	TBD
1.7.5	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	Building Official	High	Short-Range	Local funds	TBD
1.7.6	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings, where feasible.	Mayor and Council	High	Ongoing	FEMA HMA Grant	TBD

City of	Bayou La Batre Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-range=less than 2 years Mid-term=2-5 years Long-range=more than 5 years	Funding Source	Estimated Cost
.8	Storm Water Management. Manage the impacts of land develop	ment on storm water runof	f rates and to natura	l drainage system	is.	
1.8.1	Promote the adoption/enforcement of storm water management regulations that maintain pre-development runoff rates.	Local Floodplain Manager	High	Ongoing	Local funds	TBD
1.89.2	Develop, adopt and implement subdivision regulations that require proper stormwater infrastructure design and construction.	Mayor and Council	High	Ongoing	Local funds	TBD
.9	Dam Safety Management. Establish a comprehensive dam safe	ty program.				
1.9.1	Support legislation to establish a State dam safety program.	Mayor and Council	Low	Mid-Range	Local funds	TBD
1.10	Community Rating System Program (CRS). Increase participation	on of NFIP member commu	inities in the CRS Pr	ogram.		
1.10.1	Apply for/maintain membership in the CRS Program; continue to upgrade rating.	Local Floodplain Manager	High	Short-Range	Local funds	TBD
1.11	<u>Critical Facilities Assessments.</u> Perform assessments of critical special needs housing, and others) to address building and site vulnerability to damage and disruption of operations during sev	vulnerabilities to hazards	, identify damage co			
1.11.1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD

City o	f Bayou La Batre Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-range=less than 2 years Mid-term=2-5 years Long-range=more than 5 years	Funding Source	Estimated Cost
1.11.2	Conduct wildfire vulnerability assessments, including the vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive inventory to identify high and moderate wildfire risk areas.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD
2	Goal for Property Protection. Protect structures and their occup	ants and contents from the	e damaging effects of	of natural hazards		
2.1	Building Relocation. Relocate buildings out of hazardous flood	areas to safeguard against	t damages and estab	olish permanent o	pen space.	
2.1.1	Pursue FEMA grant funds to relocate buildings out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	Building Official	High	Short-Range	FEMA HMA Grant	TBD
2.2	Acquisition. Acquire flood prone buildings and properties and	establish permanent open	space.			
2.2.1	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Building Official	High	Short-Range	FEMA HMA Grant	TBD
2.2.2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Building Official	High	Short-Range	FEMA HMA Grant	TBD
2.3	Building Elevation. Elevate buildings in hazardous flood areas t	l to safeguard against dama	ges.			

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-range=less than 2 years Mid-term=2-5 years Long-range=more than 5 years	Funding Source	Estimated Cost
2.3.1	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD
2.3.2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD
2.4	Flood Proofing. Encourage flood proofing of buildings in hazard	dous flood areas to safegu	ıard against damage	es.		
2.4.1	Pursue FEMA grant funds for flood proofing pre-FIRM non- residential buildings, where feasible.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD
2.5	Flood Control Measures. Construct small flood control measure	es to reduce/prevent flood	damage.			
2.5.1	Examine use of minor structural projects (small berm or floodwalls) in areas that cannot be mitigated through non-structural mitigation techniques.	Building Official	Low	Long-Range	FEMA HMA Grant	TBD
2.6	Building Retrofits. Retrofit vulnerable buildings to protect agains severe storms, and earthquakes.	st natural hazards damage	es, including floodin	g, high winds, tor	nadoes, hur	ricanes,
2.6.1	Pursue FEMA grant funds to retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD

City of	Bayou La Batre Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-range=less than 2 years Mid-term=2-5 years Long-range=more than 5 years	Funding Source	Estimated Cost		
2.6.2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	Building Official	Medium	Short-Range	Local funds	TBD		
2.7	Hazard Insurance Awareness. Increase public awareness of flood insurance and special riders that may be required for earthquake, landslide, sinkhole, and other damages typically not covered by standard property protection policies.							
2.7.1	Promote the purchase of insurance coverage by property owners and renters for flood damages in high-risk areas.	Local Floodplain Manager	High	Ongoing	Local funds	TBD		
2.8	<u>Critical Facilities Protection</u> . Protect critical facilities from poten relocations of existing facilities located in high-risk zones or cor	-			_	ofits or		
2.8.1	Install lightning and/or surge protection on existing critical facilities.	Building Official	Low	Long-Range	TBD	TBD		
2.9	Backup Power: Ensure uninterrupted power suppl during emerg	ency events.						
2.9.1	Pursue grant funding for the installation of backup power generators for critical facilities.	Building Official	High	Short-Range	FEMA HMA Grant	TBD		
3	Goal for Public Education and Outreach. Educate and inform the life and property.	public about the risks of	hazards and the tecl	nniques available	to reduce th	reats to		
3.1	Map Information. Increase public access to Flood Insurance Rat	te Map (FIRM) information.						

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-range=less than 2 years Mid-term=2-5 years Long-range=more than 5 years	Funding Source	Estimated Cost
3.1.1	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	Building Official	Low	Mid-Range	Local funds	TBD
3.2	Outreach Projects. Conduct regular public events to inform the p	public of hazards and miti	gation measures.			
3.2.1	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Mobile County EMA	High	Ongoing	Local funds	TBD
3.2.2	Distribute materials, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	Mobile County EMA	High	Ongoing	Local funds	TBD
3.2.3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	Mayor and Council	Low	Long-Range	Local funds	TBD
3.2.4	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Mayor and Council	High	Short-Range	Local funds	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-range=less than 2 years Mid-term=2-5 years Long-range=more than 5 years	Funding Source	Estimated Cost
3.3.1	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.	Mobile County EMA	Medium	Mid-Range	Local funds	TBD
3.4	Education Programs. Use schools and other community education measures.	tion resources to conduct	orograms on topics	related to hazard r	isks and mit	igation
3.4.1	Distribute hazard mitigation brochures to students through area schools.	Mobile County EMA	Medium	Mid-Range	Local funds	TBD
3.5	<u>Community Hazard Mitigation Plan Distribution</u> . Distribute the had businesses, and residents, using all available means of publications.		ected officials, inte	rested agencies and	d organizatio	ons,
3.5.1	Distribute the 2015 plan to local officials, stakeholders, and interested individuals through internet download.	Mobile County EMA	High	Short-Range	Local funds	TBD
3.6	Technical Assistance. Make qualified local government staff av	ailable to advise property o	owners on various	hazard risks and mi	tigation alter	rnatives.
3.6.1	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Building Official	High	Short-Range	Local funds	TBD
3.7	Mass Media Relations. Utilize all available mass media, such as on-line social networking to increase public awareness and dis				video sharin	g, and
3.7.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property	Mobile County EMA	Medium	Mid-Range	Local funds	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-range=less than 2 years Mid-tem=2-5 years Long-range=more than 5 years		Estimated Cost
3.8.1	Promote the use of weather radios in households and businesses.	Mayor and Council	High	Short-Range	Local funds	TBD
3.8.2	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	Mayor and Council	High	Short-Range	Local funds	TBD
3.9	<u>Disaster Warning.</u> Improve public warning systems.					
3.9.1	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	Mobile County EMA	High	Short-Range	FEMA HMA Grant	TBD
3.9.2	Upgrade critical communications infrastructure.	Mobile County EMA	High	Short-Range	FEMA HMA Grant	TBD
4	Goal for Natural Resources Protection. Preserve and restore the development that balances the constraints of nature with the so				tainable con	nmunity
4.1	Open Space Easements and Acquisitions. Acquire easements at plains, and wetlands to assure permanent protection of these na		of environmentally b	eneficial lands, su	ch as hillsid	les, flood
4.1.1	Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.	Mayor and Council	High	Short-Range	FEMA HMA Grant	TBD
4.2	River/Stream Corridor Restoration and Protection. Restore and	protect river and stream	corridors within area	S.		
4.2.1	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Mayor and Council	High	Ongoing	Other	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-range=less than 2 years Mid-term=2-5 years Long-range=more than 5 years	Funding Source	Estimated Cost				
4.2.2	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	Mayor and Council	High	Ongoing	Local funds	TBD				
4.3	<u>Urban Forestry Programs.</u> Maintain a healthy forest that can help within urban areas.	o mitigate the damaging in	mpacts of flooding,	erosion, landslides	, and wild fi	res				
4.3.1	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).	Mayor and Council	Medium	Mid-Range	Local funds	TBD				
4.4	Beach and Dune Protection/Renourishment. Protect beaches and programs	l d dunes from coastal and	man-made erosion	and implement ren	ourishment					
4.4.1	Restore and protect wetlands to enhance stormwater drainage.	Mayor and Council	Medium	Mid-Range	Local funds	TBD				
	Develop a coastal renourishment program.	Mayor and Council	Low	Long-Range	Other	TBD				
4.4.2	Develop a coastal renounsilinent program.	Water Resources Conservation Programs. Protect water quantity and quality through water conservation programs to mitigate the effects of droughts and assure uninterrupted potable water supplies.								
4.4.2 4.5	Water Resources Conservation Programs. Protect water quantity	and quality through wate	er conservation pro	grams to mitigate t	he effects of					
4.5	Water Resources Conservation Programs. Protect water quantity	y and quality through wate	er conservation pro	grams to mitigate t	Local funds	TBD				
4.4.2 4.5 4.5.1	Water Resources Conservation Programs. Protect water quantity droughts and assure uninterrupted potable water supplies. Enforce water use restrictions during periods of drought to	Mayor and Council	Medium s and public infrastr	Long-Range	Local funds	TBD				

City of	Bayou La Batre Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-range=less than 2 years Mid-term=2-5 years Long-range=more than 5 years	Funding Source	Estimated Cost		
5.1.1	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Building Official	Medium	Short-Range	Local funds	TBD		
5.2	8.2 Reservoirs and Drainage System Improvements. Control flooding through reservoirs and other structural improvements, where deemed cost effective and feasible, such as levees/floodwalls, diversions, channel modifications, dredging, drainage modifications, and storm sewers.							
5.2.1	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Building Official	High	Mid-Range	FEMA HMA Grant	TBD		
5.3	Community Shelters and Safe Rooms. Provide shelters from nati	ural hazards for the safety	of community resid	lents.				
5.3.1	Construct new community safe rooms in accessible locations and add safe rooms within new and existing public and institutional buildings, such as schools, colleges and universities, senior centers, community centers, hospitals, and government buildings.	Mayor and Council	High	Long-Range	FEMA HMA Grant	TBD		
5.3.2	Establish a program for subsidizing individual and community safe room construction in appropriate locations and facilities.	Mayor and Council	High	Long-Range	FEMA HMA Grant	TBD		
5.3.3	Encourage the construction of safe rooms in new and existing homes and buildings.	Mayor and Council	High	Long-Range	FEMA HMA Grant	TBD		

C.3 Chickasaw Community Action Program

City of	Chickasaw Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1	Goal for Prevention. Manage the development of land and buildi					
1.1	Comprehensive Plans and Smart Growth. Establish an active co sustainable community development.	mprehensive planning pro	gram that is consist	ent with Smart Gr	owth princip	oles of
1.1.1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.	Building Official	Low	Long- Range/Ongoing	Local Funds	TBD
1.1.2	Integrate the findings and recommendations of this plan into comprehensive plan amendments for jurisdictions with active comprehensive planning programs.	Building Official	I OW	Long- Range/Ongoing	Local Funds	TBD
1.1.3	Prepare a five-year capital improvements plan (CIP) to include capital projects that implement the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	Building Official/City Council and Mayor	Low	Long-Range	Local Funds	TBD

City of	Chickasaw Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1.2	Geographic Information Systems (GIS). Maintain a comprehensi facilities inventories.	ve database of hazards loo	cations, socioecono	mic data, infrastru	icture, and c	ritical
1.2.1	Maintain a centralized, countywide natural hazards and risk assessment database in GIS that is accessible to local planners and emergency management personnel, including such data as, flood zones, geohazards, major drainage structures, dams/levees, hurricane surge areas, tornado tracks, disaster events and their extents, and a comprehensive inventory of critical facilities within all jurisdictions.	City of Mobile GIS Dept./Mobile County EMA	Low	Mid-Range	НМА	TBD
1.2.2	Integrate FEMA HAZUS-MH applications for hazard loss estimations within local GIS programs. Maintain up-to-date data within GIS to apply the full loss estimation capabilities of HAZUS.	Mobile County EMA	Low	Mid-Range	FEMA HMA Grant	TBD
1.3	Planning Studies. Conduct special studies, as needed, to identi	fy hazard risks and mitigat	tion measures.			
1.3.1	Carry out detailed planning and engineering studies for sub- basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Local Floodplain Manager	Medium	Long-Range	FEMA HMA Grant	TBD
1.3.2	Identify existing culturally or socially significant structures and critical facilities within Mobile County that have the most potential for losses from natural hazard events and identify needed structural upgrades.	Building Official	Low	Long-Range	TBD	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1.3.3	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	Building Official	Low	Long-Range	TBD	TBD
1.3.4	Inventory and map existing fire hydrants throughout the county, and identify areas in need of new fire hydrants.	Building Official	Low	Long-Range	TBD	TBD
1.3.5	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	City Engineer	Medium	Long-Range	FEMA HMA Grant	TBD
1.4	Zoning. Establish effective zoning controls, where applicable, to development.	vulnerable land areas to	l discourage environi	nentally incompat	ible land use	and
1.4.1	Consider large lot size restrictions on flood prone areas designated on Flood Insurance Rate Maps.	City Council and Mayor	Medium	Short-Range	Local Funds	TBD
1.4.2	Evaluate additional land use restrictions within designated flood zones, such as prohibition of storage of buoyant materials, storage of hazardous materials, restrictive development of flood ways, among others.	City Council and Mayor	Medium	Short-Range	Local Funds	TBD
1.4.3	Require delineation of flood plain fringe, floodways, and wetlands on all plans submitted with a permit for development within a flood plain.	City Council and Mayor	Medium	Short-Range	Local Funds	TBD
1.4.4	Enact local ordinance that require community storm shelters within sizeable mobile home parks and subdivisions.	City Council and Mayor	High	Short-Range	Local Funds	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Func	Estimated Cost
1.5	Open Space Preservation. Minimize disturbances of natural land natural features such as open space for parks, conservation are			hrough regulations	that maintai	n critical
1.5.1	Examine regulatory options and feasibility of requiring open space areas for recreation, landscaping, and drainage control.	City Council and Mayor	Medium	Mid-Range	Local Funds	TBD
1.6	Flood Plain Management Regulations. Effectively administer an	d enforce local floodplain	management regul	ations.		
1.6.1	Train local flood plain managers through programs offered by the State Flood Plain Coordinator and FEMA's training center in Emmitsburg, Maryland.	Local Floodplain Manager	High	Long- Range/Ongoing	Local Funds	TBD
1.6.2	Maintain a library of technical assistance and guidance materials to support the local floodplain manager.	Local Floodplain Manager	Medium	Ongoing	Local Funds	TBD
1.6.4	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association of Flood Plain Managers and encourage active participation.	Local Floodplain Manager	High	Short-Range	Local Funds	TBD
1.6.5	Participate in the "Turn Around Don't Drown" program by purchasing and installing signs in known flash flood bridge overpass locations.	Mobile County EMA	Medium	Short-Range	Other	TBD
1.6.6	Improve flood risk assessment by documenting high water marks post event, verifying FEMA's repetitive loss inventory and revising and updating regulatory floodplain maps.	Mobile County EMA	Medium	Short-Range	Other	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Func	Estimated Cost
1.7	<u>Building and Technical Codes.</u> Review local codes for effectiven damages.	ness of standards to prote	ect buildings and in	frastructure from n	atural hazar	d
.7.1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	Building Official	High	Ongoing	Local Funds	TBD
.7.2	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of "hurricane clips."	Building Official	High	Short-Range	Local Funds	TBD
.7.4	Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters.	Building Official	Low	Mid-Range	Local Funds	TBD
7.5	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	Building Official	High	Short-Range	Local Funds	TBD
.7.6	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	City Council and Mayor	High	Ongoing	FEMA HMA Grant	TBD
1.9	Storm Water Management. Manage the impacts of land develope	nent on storm water runo	ff rates and to natu	ral drainage systen	ns.	
9.1	Promote the adoption/enforcement of storm water management regulations that maintain pre-development runoff rates.	Local Floodplain Manager	High	Ongoing	Local Funds	TBD
.9.2	Develop, adopt, and implement subdivision regulations that require proper stormwater infrastructure design and construction.	City Council and Mayor	High	Ongoing	Local Funds	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1.10	<u>Dam Safety Management.</u> Establish a comprehensive dam safe	ty program.				
.10.1	Support legislation to establish a State dam safety program.	City Council and Mayor	Low	Mid-Range	Local Funds	TBD
1.11	Community Rating System Program (CRS). Increase participation	on of NFIP member commu	inities in the CRS	Program.		
						ı
.11.1	Apply for/maintain membership in the CRS Program; continue to upgrade rating.	Local Floodplain Manager	High	Short-Range	Local Funds	TBD
.11.1 1.12	upgrade rating. <u>Critical Facilities Assessments.</u> Perform assessments of critical special needs housing, and others) to address building and site vulnerability to damage and disruption of operations during sev	Manager I facilities (hospitals, school vulnerabilities to hazards)	ols, fire and polic , identify damage	e stations, emergen	Funds cy operation measures to	centers,
	upgrade rating. <u>Critical Facilities Assessments.</u> Perform assessments of critical special needs housing, and others) to address building and site	Manager I facilities (hospitals, school vulnerabilities to hazards)	ols, fire and polic , identify damage	e stations, emergen	Funds	centers,
1.12	upgrade rating. Critical Facilities Assessments. Perform assessments of critical special needs housing, and others) to address building and site vulnerability to damage and disruption of operations during sever Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate	Manager I facilities (hospitals, school vulnerabilities to hazards were weather and disaster of	ols, fire and polic identify damage events.	e stations, emergend control and retrofit	Funds cy operation measures to FEMA HMA	centers, reduce

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more	Funding Source	Estimated Cost
2.1.1	Pursue FEMA grant funds to relocate buildings out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	Building Official	High	Short-Range	FEMA HMA Grant	TBD
2.2	Acquisition. Acquire flood prone buildings and properties and e	establish permanent open	space.			
2.2.1	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Building Official	High	Short-Range	FEMA HMA Grant	TBD
2.2.2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Building Official	High	Short-Range	FEMA HMA Grant	TBD
2.3	Building Elevation. Elevate buildings in hazardous flood areas t	o safeguard against dama	ages.			
2.3.1	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD
2.3.2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more	Funding Source	Estimated Cost
2.4.1	Pursue FEMA grant funds for flood proofing pre-FIRM non-residential buildings, where feasible.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD
2.5	Flood Control Measures. Construct small flood control measur	es to reduce/prevent flood	damage.			
2.5.1	Examine use of minor structural projects (small berm or floodwalls) in areas that cannot be mitigated through non-structural mitigation techniques.	Building Official	Low	Long-Range	FEMA HMA Grant	TBD
2.6	Building Retrofits. Retrofit vulnerable buildings to protect agair severe storms, and earthquakes.	ist natural hazards damag	es, including floodir	ng, high winds, tor	nadoes, hurri	icanes,
		Building Official	es, including floodir Medium	Short-Range	FEMA HMA Grant	TBD
2.6.1	Pursue FEMA grant funds to retrofit existing buildings, critical facilities, and infrastructure against potential damages from				FEMA HMA	
2.6.1	Pursue FEMA grant funds to retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards. Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards	Building Official Building Official od insurance and special r	Medium Medium iders that may be re	Short-Range Short-Range	FEMA HMA Grant Local Funds	TBD

City of	Chickasaw Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
2.8.1	Install lightning and/or surge protection on existing critical facilities.	Building Official	Low	Long-Range	TBD	TBD
2.9	Backup Power. Ensure uninterrupted power supply to critical fac	cilities during emergency	events.			
2.9.1	Pursue grant funding for the installation of backup power generators for critical facilities.	Building Official	High	Short-Range	FEMA HMA Grant	TBD
3	Goal for Public Education and Outreach. Educate and inform the life and property.	public about the risks of	hazards and the tecl	hniques available	to reduce th	reats to
3.1	Map Information. Increase public access to Flood Insurance Rat	e Map (FIRM) information				
3.1.1	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	Building Official	Low	Mid-Range	Local Funds	TBD
3.2	Outreach Projects. Conduct regular public events to inform the p	oublic of hazards and miti	gation measures.			
3.2.1	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Mobile County EMA	High	Ongoing	Local Funds	TBD
3.2.2	Distribute materials, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	Mobile County EMA	High	Ongoing	Local Funds	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Fimeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
3.2.3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	City Council and Mayor	Low	Long-Range	Local Funds	TBD
3.2.4	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	City Council and Mayor	High	Short-Range	Local Funds	TBD
3.3	Library. Use local library resources to educate the public on haz	zard risks and mitigation a	Iternatives.			
3.3.1	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.	Mobile County EMA	Medium	Mid-Range	Local Funds	TBD
3.4	Education Programs. Use schools and other community educati measures.	on resources to conduct p	programs on topics	related to hazard r	isks and mit	igation
3.4.1	Distribute hazard mitigation brochures to students through area schools.	Mobile County EMA	Medium	Mid-Range	Local Funds	TBD
3.5	Community Hazard Mitigation Plan Distribution. Distribute the habusinesses, and residents, using all available means of publicat		l ected officials, inter	rested agencies and	d organizatio	ons,
3.5.1	Distribute the 2015 plan to local officials, stakeholders, and interested individuals through internet download.	Mobile County EMA	High	Short-Range	Local Funds	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
3.6.1	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Building Official	High	Short-Range	Local Funds	TBD
3.7	Mass Media Relations. Utilize all available mass media, such as, on-line social networking to increase public awareness and dist				video sharin	g, and
3.7.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Mobile County EMA	Medium	Mid-Range	Local Funds	TBD
3.8	Weather Radios. Improve public access to weather alerts.					
.8.1	Promote the use of weather radios in households and businesses.	City Council and Mayor	High	Short-Range	Local Funds	TBD
.8.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	City Council and Mayor	High	Short-Range	Local Funds	TBD
3.9	Disaster Warning. Improve public warning systems.					
.9.4	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	Mobile County EMA	High	Short-Range	FEMA HMA Grant	TBD
.9.5	Upgrade critical communications infrastructure.	Mobile County EMA	High	Short-Range	FEMA HMA Grant	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Func	Estimated Cost
4.1	Open Space Easements and Acquisitions. Acquire easements an plains, and wetlands to assure permanent protection of these na		f environmentally be	eneficial lands, su	ch as hillside	es, flood
4.1.1	Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.	City Council and Mayor	High	Short-Range	FEMA HMA Grant	TBD
4.2	River/Stream Corridor Restoration and Protection. Restore and	protect river and stream c	orridors within area	S.		
4.2.1	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	City Council and Mayor	High	Ongoing	Other	TBD
4.2.2	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	City Council and Mayor	High	Ongoing	Local Funds	TBD
4.3	Urban Forestry Programs. Maintain a healthy forest that can help within urban areas.	p mitigate the damaging in	npacts of flooding, e	l erosion, landslides	s, and wild fir	es
4.3.1	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).	City Council and Mayor	Medium	Mid-Range	Local Funds	TBD
4.5	Water Resources Conservation Programs. Protect water quantity droughts and assure uninterrupted potable water supplies.	y and quality through wate	r conservation prog	rams to mitigate t	the effects of	
4.5.1	Enforce water use restrictions during periods of drought to conserve existing water supplies.	City Council and Mayor	Medium	Long-Range	Local Funds	TBD

City of	Chickasaw Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Fund	Estimated Cost
5	Goal for Structural Projects. Apply engineered structural modific damaging impacts of hazards, where feasible, cost effective, and	-		icture to reduce th	ne potentially	
5.1	Drainage System Maintenance. Improve maintenance programs	for streams and drainage	ways.			
5.1.1	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Building Official/Mobile County EMA	Medium	Short-Range	Local Funds	TBD
5.2	Reservoirs and Drainage System Improvements. Control floodin effective and feasible, such as levees/floodwalls, diversions, cha					
5.2.1	· · · · · · · · · · · · · · · · · · ·	Building Official/City Council and Mayor	High	Mid-Range	FEMA HMA Grant	TBD
5.3	Community Shelters and Safe Rooms. Provide shelters from nat	ural hazards for the safety	of community resid	lents.		
5.3.1	Construct new community safe rooms in accessible locations and add safe rooms within new and existing public and institutional buildings, such as schools, colleges and universities, senior centers, community centers, hospitals, and government buildings.	City Council and Mayor	High	Long-Range	FEMA HMA Grant	TBD
5.3.2	Establish a program for subsidizing individual and community safe room construction in appropriate locations and facilities.	City Council and Mayor	High	Long-Range	FEMA HMA Grant	TBD
5.3.3	Encourage the construction of safe rooms in new and existing homes and buildings.	City Council and Mayor	High	Long-Range	FEMA HMA Grant	TBD

C.4 Citronelle Community Action Program

City of	Citronelle Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1	Goal for Prevention. Manage the development of land and buildi	ngs to minimize risks of lo	ss due to natural ha	zards.		
1.1	Comprehensive Plans and Smart Growth. Establish an active co sustainable community development.	mprehensive planning pro	gram that is consist	ent with Smart Gr	owth princip	oles of
1.1.1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.	Building Official	Low	Long- Range/Ongoing	Local Funds	TBD
1.1.2	Integrate the findings and recommendations of this plan into comprehensive plan amendments for jurisdictions with active comprehensive planning programs.	Building Official	Low	Long- Range/Ongoing	Local Funds	TBD
1.1.3	Prepare a five-year capital improvements plan (CIP) to include capital projects that implement the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	Building Official/City Council and Mayor	Medium	Mid-Range	Local Funds	TBD

City o	f Citronelle Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1.2	Geographic Information Systems (GIS). Maintain a comprehensi facilities inventories.	ve database of hazards loo	cations, socio econo	omic data, infrastri	ucture, and o	ritical
1.2.1	Maintain a centralized, countywide natural hazards and risk assessment database in GIS that is accessible to local planners and emergency management personnel, including such data as, flood zones, geohazards, major drainage structures, dams/levees, hurricane surge areas, tornado tracks, disaster events and their extents, and a comprehensive inventory of critical facilities within all jurisdictions.	Mobile County EMA	Low	Mid-Range	НМА	TBD
1.2.2	Integrate FEMA HAZUS-MH applications for hazard loss estimations within local GIS programs. Maintain up-to-date data within GIS to apply the full loss estimation capabilities of HAZUS.	Mobile County EMA	Low	9	FEMA HMA Grant	TBD
1.3	Planning Studies. Conduct special studies, as needed, to identify	fy hazard risks and mitigat	tion measures.			
1.3.1	Carry out detailed planning and engineering studies for sub- basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Local Floodplain Manager	Medium	Long-Range	FEMA HMA Grant	TBD
1.3.2	Identify existing culturally or socially significant structures and critical facilities within Mobile County that have the most potential for losses from natural hazard events and identify needed structural upgrades.	Building Official	Low	Long-Range	TBD	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1.3.3	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	Building Official	Low	Long-Range	TBD	TBD
1.3.4	Inventory and map existing fire hydrants throughout the county, and identify areas in need of new fire hydrants.	Building Official	Low	Long-Range	TBD	TBD
1.3.5	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	City Engineer	Medium	Long-Range	FEMA HMA Grant	TBD
1.4	Zoning. Establish effective zoning controls, where applicable, to development.	vulnerable land areas to o	discourage environn	nentally incompat	ible land use	and
1.4.1	Consider large lot size restrictions on flood prone areas designated on Flood Insurance Rate Maps.	City Council and Mayor	Medium	Short-Range	Local Funds	TBD
1.4.2	Evaluate additional land use restrictions within designated flood zones, such as prohibition of storage of buoyant materials, storage of hazardous materials, restrictive development of flood ways, among others.	City Council and Mayor	Medium	Short-Range	Local Funds	TBD
1.4.3	Require delineation of flood plain fringe, floodways, and wetlands on all plans submitted with a permit for development within a flood plain.	City Council and Mayor	Medium	Short-Range	Local Funds	TBD
1.4.4	Enact local ordinance that require community storm shelters within sizeable mobile home parks and subdivisions.	City Council and Mayor	High	Short-Range	Local Funds	TBD

City of	Citronelle Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1.5	Open Space Preservation. Minimize disturbances of natural land natural features such as open space for parks, conservation are		orm water runoff the	rough regulations	that maintai	n critical
1.5.1	Examine regulatory options and feasibility of requiring open space areas for recreation, landscaping, and drainage control.	City Council and Mayor	Medium	Mid-Range	Local Funds	TBD
1.6	Flood Plain Management Regulations. Effectively administer an	d enforce local floodplain	management regula	tions.		
1.6.1	Train local flood plain managers through programs offered by the State Flood Plain Coordinator and FEMA's training center in Emmitsburg, Maryland.	Local Floodplain Manager	High	Long- Range/Ongoing	Local Funds	TBD
1.6.2	Maintain a library of technical assistance and guidance materials to support the local floodplain manager.	Local Floodplain Manager	Medium	Ongoing	Local Funds	TBD
1.6.3	Promote the adoption of uniform flood hazard prevention ordinance among all NFIP communities. The ordinance standards should encourage flood plain management that maintains the natural and beneficial functions of flood plains by maximizing the credits that could be obtained for "Higher Regulatory Standards" under the Community Rating System (CRS) Program.	Local Floodplain Manager	High	Completed May 2020	FEMA HMA Grant	TBD
1.6.4	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association of Flood Plain Managers and encourage active participation.	Local Floodplain Manager/	High	Short-Range	Local Funds	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1.6.5	Participate in the "Turn Around Don't Drown" program by purchasing and installing signs in known flash flood bridge overpass locations.	Local Floodplain Manager	Medium	Short-Range	Other	TBD
1.6.6	Improve flood risk assessment by documenting high water marks post event, verifying FEMA's repetitive loss inventory and revising and updating regulatory floodplain maps.	Local Floodplain Manager	Medium	Long-Range	Other	TBD
1.7	Building and Technical Codes. Review local codes for effectiven damages.	ess of standards to protec	ct buildings and infr	astructure from na	atural hazar	d
1.7.1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	Building Official	High	Ongoing	Local Funds	TBD
1.7.2	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of "hurricane clips."	Building Official	High	Ongoing	Local Funds	TBD
1.7.4	Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters.	Building Official	Low	Mid-Range	Local Funds	TBD
1.7.5	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	Building Official	High	Short-Range	Local Funds	TBD
1.7.6	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	City Council and Mayor	High	Ongoing	FEMA HMA Grant	TBD

oity o	f Citronelle Community Action Program	1				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Wid-Range=2-5 years -ong-Range=more than 5 years	Funding Source	Estimated Cost
1.9	Storm Water Management. Manage the impacts of land develop	ment on storm water runof	f rates and to natura	l drainage system	is.	_
1.9.1	Promote the adoption/enforcement of storm water management regulations that maintain pre-development runoff rates.	Local Floodplain Manager	High	Ongoing	Local Funds	TBD
1.9.2	Develop, adopt and implement subdivision regulations that require proper stormwater infrastructure design and construction.	City Council and Mayor	High	Ongoing	Local Funds	TBD
1.10	<u>Dam Safety Management.</u> Establish a comprehensive dam safe	ty program.				
.10.1	Support legislation to establish a State dam safety program.	City Council and Mayor	Low	Mid-Range	Local Funds	TBD
1.11	Community Rating System Program (CRS). Increase participation	on of NFIP member commu	inities in the CRS Pr	ogram.		
.11.1	Apply for/maintain membership in the CRS Program; continue to upgrade rating.	Local Floodplain Manager	High	Short-Range	Local Funds	TBD
1.12	<u>Critical Facilities Assessments.</u> Perform assessments of critical special needs housing, and others) to address building and site vulnerability to damage and disruption of operations during sev	vulnerabilities to hazards	, identify damage co		-	
.12.1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years	Funding Source	Estimated Cost
1.12.2	Conduct wildfire vulnerability assessments, including the vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive inventory to identify high and moderate wildfire risk areas.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD
2	Goal for Property Protection. Protect structures and their occup	ants and contents from th	e damaging effect	s of natural hazard	s.	
2.1	Building Relocation. Relocate buildings out of hazardous flood	areas to safeguard agains	t damages and est	ablish permanent o	ppen space.	
	Building Relocation. Relocate buildings out of hazardous flood Pursue FEMA grant funds to relocate buildings out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	areas to safeguard agains	t damages and est	Short-Range	FEMA HMA Grant	TBD
2.1 2.1.1	Pursue FEMA grant funds to relocate buildings out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or	Building Official	High		FEMA HMA	TBD
2.1.1	Pursue FEMA grant funds to relocate buildings out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	Building Official	High		FEMA HMA	TBD

City of	Citronelle Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
2.3.1	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD
2.3.2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD
2.4	Flood Proofing. Encourage flood proofing of buildings in hazard	dous flood areas to safegu	ard against damage	S.		
2.4.1	Pursue FEMA grant funds for flood proofing pre-FIRM non- residential buildings, where feasible.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD
2.5	Flood Control Measures. Construct small flood control measure	es to reduce/prevent flood	damage.			
2.5.1	Examine use of minor structural projects (small berm or floodwalls) in areas that cannot be mitigated through non-structural mitigation techniques.	Building Official	Medium	Long-Range	FEMA HMA Grant	TBD
2.5	Building Retrofits. Retrofit vulnerable buildings to protect agains severe storms, and earthquakes.	st natural hazards damage	s, including flooding	g, high winds, tori	nadoes, hurr	icanes,
2.5.1	Pursue FEMA grant funds to retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD

City of	Citronelle Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
2.5.2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	Building Official	Medium	Short-Range	Local Funds	TBD
2.6	Hazard Insurance Awareness. Increase public awareness of floosinkhole, and other damages typically not covered by standard p	•		quired for earthqua	ake, landslid	e,
2.6.1	Promote the purchase of insurance coverage by property owners and renters for flood damages in high-risk areas.	Mobile County EMA	High	Ongoing	Local Funds	TBD
2.7	<u>Critical Facilities Protection</u> . Protect critical facilities from potential relocations of existing facilities located in high-risk zones or cor	•			_	ofits or
2.7.1	Install lightning and/or surge protection on existing critical facilities.	Building Official	Low	Long-Range	TBD	TBD
2.8	Backup Power. Ensure uninterrupted power supply to critical fac	cilities during emergency	events.			
2.8.1	Pursue grant funding for the installation of backup power generators for critical facilities.	Building Official	High	Short-Range	FEMA HMA Grant	TBD
3	Goal for Public Education and Outreach. Educate and inform the life and property.	public about the risks of	hazards and the tecl	nniques available	to reduce th	reats to
3.1	Map Information. Increase public access to Flood Insurance Rat	e Map (FIRM) information.				

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
3.1.1	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	Building Official	Low	Mid-Range	Local Funds	TBD
3.2	Outreach Projects. Conduct regular public events to inform the p	oublic of hazards and mitig	gation measures.			
3.2.1	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Mobile County EMA	High	Ongoing	Local Funds	TBD
3.2.2	Distribute materials, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	Mobile County EMA	High	Ongoing	Local Funds	TBD
3.2.4	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	City Council and Mayor	High	Short-Range	Local Funds	TBD
3.3	Library. Use local library resources to educate the public on haz	ard risks and mitigation a	Iternatives.			
3.3.1	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.	Mobile County EMA	Medium	Mid-Range	Local Funds	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
.4.1	Distribute hazard mitigation brochures to students through area schools.	Mobile County EMA	Medium	Mid-Range	Local Funds	TBD
3.5	Community Hazard Mitigation Plan Distribution. Distribute the habusinesses, and residents, using all available means of publication		ected officials, intere	ested agencies and	d organizatio	ins,
.5.1	Distribute the 2015 plan to local officials, stakeholders, and interested individuals through internet download.	Mobile County EMA	High	Short-Range	Local Funds	TBD
3.6	Technical Assistance. Make qualified local government staff ava	ilable to advise property o	wners on various ha	azard risks and mi	tigation alter	natives.
.6.1	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Building Official	High	Short-Range	Local Funds	TBD
3.7	Mass Media Relations. Utilize all available mass media, such as, on-line social networking to increase public awareness and distr				video sharin	g, and
.7.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Mobile County EMA	Medium	Mid-Range	Local Funds	TBD
3.8	Weather Radios. Improve public access to weather alerts.					
8.1	Promote the use of weather radios in households and businesses.	City Council and Mayor	High	Short-Range	Local Funds	TBD
8.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	City Council and Mayor	High	Short-Range	Local Funds	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 Years	Func	Estimated Cost
3.9.4	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	Mobile County EMA	High	Short-Range	FEMA HMA Grant	TBD
3.9.5	Upgrade critical communications infrastructure.	Mobile County EMA	High	Short-Range	FEMA HMA Grant	TBD
	Goal for Natural Resources Protection. Preserve and restore the	hanaficial functions of th	a natural anvivanme		tainable een	munity
4.1	development that balances the constraints of nature with the so- Open Space Easements and Acquisitions. Acquire easements an plains, and wetlands to assure permanent protection of these na	cial and economic deman	ds of the community	<i>j</i> .		
	development that balances the constraints of nature with the so Open Space Easements and Acquisitions. Acquire easements an	cial and economic deman	ds of the community	<i>j</i> .		
4.1	Open Space Easements and Acquisitions. Acquire easements and plains, and wetlands to assure permanent protection of these nature open space acquisitions through the FEMA HMA Grant	nd fee-simple ownership outural resources. City Council and Mayor	of environmentally b	eneficial lands, su Short-Range	FEMA HMA	es, flood
4.1 4.1.1	Open Space Easements and Acquisitions. Acquire easements and plains, and wetlands to assure permanent protection of these nature open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.	nd fee-simple ownership outural resources. City Council and Mayor	of environmentally b	eneficial lands, su Short-Range	FEMA HMA	es, flood

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost		
1.3.1	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).	City Council and Mayor	Medium	Mid-Range	Local Funds	TBD		
4.4	Water Resources Conservation Programs. Protect water quantity and quality through water conservation programs to mitigate the effects of droughts and assure uninterrupted potable water supplies.							
1.4.1	Enforce water use restrictions during periods of drought to conserve existing water supplies.	City Council and Mayor	Medium	Long-Range	Local Funds	TBD		
5	Goal for Structural Projects. Apply engineered structural modific damaging impacts of hazards, where feasible, cost effective, and	•		icture to reduce th	ne potentially	,		
5.1	<u>Drainage System Maintenance.</u> Improve maintenance programs	for streams and drainage	ways.					
5.1.1	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Building Official/Mobile County EMA	Medium	Short-Range	Local Funds	TBD		
	Reservoirs and Drainage System Improvements. Control flooding through reservoirs and other structural improvements, where deemed cost effective and feasible, such as levees/floodwalls, diversions, channel modifications, dredging, drainage modifications, and storm sewers.							
5.2		-	jing, drainage modif	ications, and stori	ii ocwero.			

City o	City of Citronelle Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost		
5.3.1	Construct new community safe rooms in accessible locations and add safe rooms within new and existing public and institutional buildings, such as schools, colleges and universities, senior centers, community centers, hospitals, and government buildings.	City Council and Mayor	High	Long-Range	FEMA HMA Grant	TBD		
5.3.2	Establish a program for subsidizing individual and community safe room construction in appropriate locations and facilities.	City Council and Mayor	High	Short-Range In progress – Estimated Completion Sept. 2021	FEMA HMA Grant	TBD		
5.3.3	Encourage the construction of safe rooms in new and existing homes and buildings.	City Council and Mayor	High	Long-Range	FEMA HMA Grant	TBD		

C.1 City of Mobile Community Action Program

	City of Mobile Community Action Pro	ogram				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1	Goal for Prevention. Manage the development of land and building	ngs to minimize risks of lo	ess due to natural ha	zards.		
1.1	Comprehensive Plans and Smart Growth. Establish an active consustainable community development.	mprehensive planning pro	ogram that is consist	ent with Smart Gr	owth princip	oles of
1.1.1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.	Build Mobile	High	Short-Range	Local Funds	TBD
1.1.2	Integrate the findings and recommendations of this plan into comprehensive plan amendments for jurisdictions with active comprehensive planning programs.	Build Mobile	High	Short-Range	Local Funds	TBD
1.1.3	Prepare a five-year capital improvements plan (CIP) to include capital projects that implement the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	Mayor/City Council	Medium	Mid-Range	Local Funds	TBD

	City of Mobile Community Action Pro	ogram				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1.2	Geographic Information Systems (GIS). Maintain a comprehension facilities inventories.	ve database of hazards loo	cations, socio econo		ucture, and	
1.2.1	Maintain a centralized, countywide natural hazards and risk assessment database in GIS that is accessible to local planners and emergency management personnel, including such data as, flood zones, geohazards, major drainage structures, dams/levees, hurricane surge areas, tornado tracks, disaster events and their extents, and a comprehensive inventory of critical facilities within all jurisdictions.	City of Mobile GIS Dept	Medium	Mid-Range	FEMA HMA Grant	TBD
1.2.2	Integrate FEMA ORION applications for hazard loss estimations within local GIS programs. Maintain up-to-date data within GIS to apply the full loss estimation capabilities of ORION.	City of Mobile GIS Dept.	Medium	Ongoing	FEMA HMA Grant	TBD
1.2.3	Mark depths of flooding and storm surge immediately after each event. Enter and maintain these historical records in GIS.	City of Mobile GIS Dept.	High	Short-Range	Local Funds	TBD
1.3	Planning Studies. Conduct special studies, as needed, to identif	fy hazard risks and mitigat	tion measures.			
1.3.1	Carry out detailed planning and engineering studies for sub- basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	City Engineer	Medium	Mid-Range	FEMA HMA Grant	TBD
1.3.3	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	City Engineer	Low	Long-Range	TBD	TBD

	City of Mobile Community Action Pro	gram				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1.3.4	Inventory and map existing fire hydrants throughout the county, and identify areas in need of new fire hydrants.	City of Mobile GIS Department	High	Short-Range	TBD	TBD
1.3.5	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	City Engineer	Medium	Ongoing	FEMA HMA Grant	TBD
1.4	Zoning. Establish effective zoning controls, where applicable, to development.	vulnerable land areas to	discourage environ	mentally incompat	ible land use	e and
1.4.3	Require delineation of flood plain fringe, floodways, and wetlands on all plans submitted with a permit for development within a flood plain.	Build Mobile	Low	Long-Range	Local Funds	TBD
1.4.4	Enact local ordinance that require community storm shelters within sizeable mobile home parks and subdivisions.	Mayor/City Council	Medium	Mid-Range	Local Funds	TBD
1.5	Open Space Preservation. Minimize disturbances of natural land natural features such as open space for parks, conservation area			nrough regulations	that mainta	in critical
1.5.1	Examine regulatory options and feasibility of requiring open space areas for recreation, landscaping, and drainage control.	Mayor/City Council	Medium	Mid-Range	Local Funds	TBD
1.6	Flood Plain Management Regulations. Effectively administer and	d enforce local floodplain	management regul	ations.		
1.6.1	Train local flood plain managers through programs offered by the State Flood Plain Coordinator and FEMA's training center in Emmitsburg, Maryland.	Build Mobile	High	Short-Range	Local Funds	TBD

	City of Mobile Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost		
1.6.2	Maintain a library of technical assistance and guidance materials to support the local floodplain manager.	Floodplain Manager	Medium	Ongoing	Local Funds	TBD		
1.6.4	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association of Flood Plain Managers and encourage active participation.	Floodplain Manager	High	Ongoing	Local Funds	TBD		
1.6.5	Participate in the "Turn Around Don't Drown" program by purchasing and installing signs in known flash flood bridge overpass locations.	National Weather Service	High	Short-Range	Other	TBD		
1.6.6	Improve flood risk assessment by documenting high water marks post event, verifying FEMA's repetitive loss inventory and revising and updating regulatory floodplain maps.	Floodplain Manager	Medium	Short-Range	FEMA HMA Grant	TBD		
1.7	Building and Technical Codes. Review local codes for effectiven damages.	ess of standards to protect	ct buildings and infra	astructure from na	atural hazard			
1.7.1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	Build Mobile	High	Ongoing	Local Funds	TBD		
1.7.2	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of "hurricane clips."	Build Mobile	High	Short-Range	Local Funds	TBD		

	City of Mobile Community Action Pro	gram				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1.7.3	Relocate existing utility lines underground, where feasible and cost effective, and require, through local subdivision and land development regulations, the placement of all new utility lines underground for large residential subdivisions and commercial developments.	Mayor/City Council	Medium	Mid-Range	TBD	TBD
1.7.4	Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters.	Building Official	High	Short-Range	Local Funds	TBD
1.7.5	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	Building Official	High	Short-Range	Local Funds	TBD
1.7.6	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	Mayor/City Council	High	Ongoing	FEMA HMA Grant	TBD
1.8	Storm Water Management. Manage the impacts of land developn	nent on storm water runof	f rates and to natura	Il drainage systen	ns.	
1.8.2	Develop, adopt and implement subdivision regulations that require proper stormwater infrastructure design and construction.	Build Mobile	Medium	Ongoing	Local Funds	TBD
1.9	Community Rating System Program (CRS). Increase participation	n of NFIP member commu	inities in the CRS Pr	ogram.		
1.10	<u>Critical Facilities Assessments.</u> Perform assessments of critical special needs housing, and others) to address building and site vulnerability to damage and disruption of operations during several process.	vulnerabilities to hazards	, identify damage co		•	

	City of Mobile Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more	<u> </u>	Estimated Cost		
1.10.1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	Real Estate Management	High	Short-Range	FEMA HMA Grant	TBD		
2	Goal for Property Protection. Protect structures and their occupants and contents from the damaging effects of natural hazards.							
2.1	Building Relocation. Relocate buildings out of hazardous flood a	areas to safeguard against	damages and estab	lish permanent o	pen space.			
2.1.1	Pursue FEMA grant funds to relocate buildings out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	Build Mobile	High	Short-Range	FEMA HMA Grant	TBD		
2.2	Acquisition. Acquire flood prone buildings and properties and e	establish permanent open	space.					
2.2.1	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Build Mobile	High	Short-Range	FEMA HMA Grant	TBD		
	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Build Mobile	Medium	Mid-Range	FEMA HMA Grant	TBD		
2.3	Building Elevation. Elevate buildings in hazardous flood areas t	o safeguard against dama	ges.	1		L		

	City of Mobile Community Action Pro	gram				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more	Funding Source	Estimated Cost
2.3.1	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Build Mobile	Medium	Short-Range	FEMA HMA Grant	TBD
2.3.2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	Build Mobile	Medium	Short-Range	FEMA HMA Grant	TBD
2.4	Flood Proofing. Encourage flood proofing of buildings in hazard	lous flood areas to safegu	ard against damage	s.	1	
2.4.1	Pursue FEMA grant funds for flood proofing pre-FIRM non- residential buildings, where feasible.	Build Mobile	Medium	Short-Range	FEMA HMA Grant	TBD
2.5	Flood Control Measures. Construct small flood control measure	s to reduce/prevent flood	damage.			
2.5.1	Examine use of minor structural projects (small berm or floodwalls) in areas that cannot be mitigated through non-structural mitigation techniques.	City Engineer	Medium	Long-Range	FEMA HMA Grant	TBD
2.6	<u>Building Retrofits</u> . Retrofit vulnerable buildings to protect agains severe storms, and earthquakes.	st natural hazards damage	es, including floodin	g, high winds, tor	nadoes, huri	ricanes,
2.6.1	Pursue FEMA grant funds to retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	Build Mobile	High	Long-Range	FEMA HMA Grant	TBD

	City of Mobile Community Action Pro	ogram					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost	
2.7	Hazard Insurance Awareness. Increase public awareness of floo		ders that may be red		ake, landslid	de,	
	sinkhole, and other damages typically not covered by standard p	property protection policie	9S.				
2.7.1	Promote the purchase of insurance coverage by property owners and renters for flood damages in high-risk areas.	Floodplain Manager	High	Ongoing	Local Funds	TBD	
2.8	Critical Facilities Protection. Protect critical facilities from potential damages and occupants from harm in the event of hazards through retrofits or relocations of existing facilities located in high-risk zones or construction of new facilities for maximum protection from all hazards.						
2.8.1	Install lightning and/or surge protection on existing critical facilities.	Real Estate Management	Low	Long-Range	TBD	TBD	
2.9	Backup Power. Ensure uninterrupted power supply to critical fac	cilities during emergency	events.				
2.9.1	Pursue grant funding for the installation of backup power generators for critical facilities.	Real Estate Management	High	Ongoing	FEMA HMA Grant	TBD	
3	Goal for Public Education and Outreach. Educate and inform the life and property.	public about the risks of	hazards and the tec	hniques available	to reduce th	reats to	
3.1	Map Information. Increase public access to Flood Insurance Rat	te Map (FIRM) information.					
3.1.1	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	Build Mobile	Medium	Ongoing	Local Funds	TBD	
3.2	Outreach Projects. Conduct regular public events to inform the p	public of hazards and mitig	gation measures.		I	L	

	City of Mobile Community Action Pro	ogram				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
3.2.1	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Mobile County EMA	High	Short-Range	Local Funds	TBD
3.2.2	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	Mobile County EMA	High	Short-Range	Local Funds	TBD
3.2.3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	Mayor/City Council	High	Ongoing	Local Funds	TBD
3.2.4	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Mayor/City Council	Medium	Ongoing	Local Funds	TBD
3.2.6	Host hazard mitigation roundtables at the beginning of the fiscal year and the beginning of hurricane season to review and coordinate individual jurisdiction mitigation activities.	Mobile County EMA	Low	Long-Range	TBD	TBD
3.3	<u>Library.</u> Use local library resources to educate the public on haz	zard risks and mitigation a	alternatives.			
3.3.1	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.	Mobile County EMA	Medium	Mid-Range	Local Funds	TBD

	City of Mobile Community Action Pro	ogram				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
3.4	Education Programs. Use schools and other community educati measures.	ion resources to conduct p	orograms on topics	related to hazard	risks and mi	tigation
3.4.1	Distribute hazard mitigation brochures to students through area schools.	Mayor/City Council	High	Short-Range	FEMA HMA Grant	TBD
3.5	Community Hazard Mitigation Plan Distribution. Distribute the h businesses, and residents, using all available means of publicate		ected officials, inter	ested agencies an	d organizati	ons,
3.5.1	Distribute the 2015 plan to local officials, stakeholders, and interested individuals through internet download.	Mobile County EMA	High	Short-Range	Local Funds	TBD
3.6	Mass Media Relations. Utilize all available mass media, such as, on-line social networking to increase public awareness and dist				video sharir	ng, and
3.6.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Mobile County EMA	High	Short-Range	Local Funds	TBD
3.8	Weather Radios. Improve public access to weather alerts.					
3.8.1	Promote the use of weather radios in households and businesses.	Mayor/City Council	High	Short-Range	Local Funds	TBD
3.8.2	Require the installation of weather radios in all public buildings and places of public assembly.	Mayor/City Council	High	Short-Range	Local Funds	TBD
3.8.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	Mayor/City Council	High	Short-Range	Local Funds	TBD

	City of Mobile Community Action Pro	ogram				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Fimeline Short-Range=less than 2 years Vid-Range=2-5 years	Funding Source	Estimated Cost
3.9	<u>Disaster Warning.</u> Improve public warning systems.			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_	
3.9.1	Establish an ALERT flood warning system at strategic locations in the county, including at a minimum, sensors that provide real-time access to stream flow, stream stage, and precipitation data.	Mobile County EMA	High	Short-Range	FEMA HMA Grant	TBD
3.9.2	Ensure that the ALERT warning system links data into GIS with the ability to use measured and forecasted rainfall to predict potential flood levels and create real-time maps of flooded areas.	Mobile County EMA	High	Short-Range	FEMA HMA Grant	TBD
3.9.3	Evaluate the feasibility of a shared tri-county ALERT system covering Baldwin, Escambia, and Mobile counties.	Mobile County EMA	High	Short-Range	FEMA HMA Grant	TBD
3.9.4	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	Mobile County EMA	High	Short-Range	FEMA HMA Grant	TBD
3.9.5	Upgrade critical communications infrastructure.	Mobile County EMA	High	Short-Range	FEMA HMA Grant	TBD
4	Goal for Natural Resources Protection. Preserve and restore the development that balances the constraints of nature with the so			•	stainable co	ommunity
4.1	River/Stream Corridor Restoration and Protection. Restore and	protect river and stream c	orridors within area	as.		
4.1.1	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Build Mobile	High	Ongoing	Other	TBD

	City of Mobile Community Action Pro	ogram						
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost		
4.1.2	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	Mayor/City Council	High	Ongoing	Local Funds	TBD		
4.2	Beach and Dune Protection/Renourishment. Protect beaches and dunes from coastal and man-made erosion and implement renourishment programs.							
4.2.1	Restore and protect wetlands to enhance stormwater drainage.	Mayor/City Council	Medium	Mid-Range	Local Funds	TBD		
4.2.2	Develop a coastal renourishment program.	Mayor/City Council	Low	Long-Range	Other	TBD		
4.3	Water Resources Conservation Programs. Protect water quantity droughts and assure uninterrupted potable water supplies.	y and quality through wate	er conservation prog	rams to mitigate t	he effects o	f		
4.3.1	Enforce water use restrictions during periods of drought to conserve existing water supplies.	Mayor/City Council	Medium	Long-Range	Local Funds	TBD		
5	Goal for Structural Projects. Apply engineered structural modific damaging impacts of hazards, where feasible, cost effective, and	-		icture to reduce th	e potentially	y		
5.1	<u>Drainage System Maintenance.</u> Improve maintenance programs	for streams and drainage	ways.					
5.1.1	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Public Works	Medium	Short-Range	Local Funds	TBD		
5.2	Reservoirs and Drainage System Improvements. Control flooding through reservoirs and other structural improvements, where deemed cost effective and feasible, such as levees/floodwalls, diversions, channel modifications, dredging, drainage modifications, and storm sewers.							

	City of Mobile Community Action Pro	ogram				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
5.2.1	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	City Engineer	High	Ongoing	FEMA HMA Grant	TBD
5.3	Community Shelters and Safe Rooms. Provide shelters from nat	ural hazards for the safety	of community resid	lents.		
5.3.2	Encourage the construction of safe rooms in new and existing homes and buildings.	Build Mobile	High	Short-Range	FEMA HMA Grant	TBD

C.5 Creola Community Action Program

	City of Creola Community Action Pro	ogram				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1	Goal for Prevention. Manage the development of land and buildi	ngs to minimize risks of lo	ss due to natural ha	izards.		
1.1	Comprehensive Plans and Smart Growth. Establish an active co sustainable community development.	mprehensive planning pro	gram that is consis	tent with Smart Gr	owth princip	oles of
1.1.1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.	Building Official	Low	Long- Range/Ongoing	Local Funds	TBD
1.1.2	Integrate the findings and recommendations of this plan into comprehensive plan amendments for jurisdictions with active comprehensive planning programs.	Building Official	Low	Long- Range/Ongoing	Local Funds	TBD
1.1.3	Prepare a five-year capital improvements plan (CIP) to include capital projects that implement the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan	Building Official/Local Government	Medium	Mid-Range	Local Funds	TBD

	City of Creola Community Action Pro	ogram				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1.2	Geographic Information Systems (GIS). Maintain a comprehensi facilities inventories.	ve database of hazards loo	cations, socio econo	omic data, infrastr	ucture, and o	critical
1.2.1	Maintain a centralized, countywide natural hazards and risk assessment database in GIS that is accessible to local planners and emergency management personnel, including such data as, flood zones, geohazards, major drainage structures, dams/levees, hurricane surge areas, tornado tracks, disaster events and their extents, and a comprehensive inventory of critical facilities within all jurisdictions.	Mobile County EMA	Low	Mid-Range	НМА	TBD
1.2.2	Integrate FEMA HAZUS-MH applications for hazard loss estimations within local GIS programs. Maintain up-to-date data within GIS to apply the full loss estimation capabilities of HAZUS.	Mobile County EMA	Low	Mid-Range	FEMA HMA Grant	TBD
1.3	Planning Studies. Conduct special studies, as needed, to identi	fy hazard risks and mitigat	tion measures.			
1.3.1	Carry out detailed planning and engineering studies for sub- basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Local Floodplain Manager	Medium	Long-Range	FEMA HMA Grant	TBD
1.3.2	Identify existing culturally or socially significant structures and critical facilities within Mobile County that have the most potential for losses from natural hazard events and identify needed structural upgrades.	Building Official	Low	Long-Range	TBD	TBD

	City of Creola Community Action Pro	gram				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1.3.3	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	Building Official	Low	Long-Range	TBD	TBD
1.3.4	Inventory and map existing fire hydrants throughout the county, and identify areas in need of new fire hydrants.	Building Official	Low	Long-Range	TBD	TBD
1.3.5	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	City Engineer	Medium	Long-Range	FEMA HMA Grant	TBD
1.4	Zoning. Establish effective zoning controls, where applicable, to development.	vulnerable land areas to	discourage environr	l nentally incompat	ible land use	e and
1.4.1	Consider large lot size restrictions on flood prone areas designated on Flood Insurance Rate Maps.	Local Government	Medium	Short-Range	Local Funds	TBD
1.4.2	Evaluate additional land use restrictions within designated flood zones, such as prohibition of storage of buoyant materials, storage of hazardous materials, restrictive development of flood ways, among others.	Local Government	Medium	Short-Range	Local Funds	TBD
1.4.3	Require delineation of flood plain fringe, floodways, and wetlands on all plans submitted with a permit for development within a flood plain.	Local Government	Medium	Short-Range	Local Funds	TBD
1.4.4	Enact local ordinance that require community storm shelters within sizeable mobile home parks and subdivisions.	Local Government	High	Short-Range	Local Funds	TBD

	City of Creola Community Action Pro	ogram				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1.5	Open Space Preservation. Minimize disturbances of natural land natural features such as open space for parks, conservation are			rough regulations	that mainta	n critical
		uo, iunuoouping, unu urun	iago.			
1.5.1	Examine regulatory options and feasibility of requiring open space areas for recreation, landscaping, and drainage control.	Local Government	Medium	Mid-Range	Local Funds	TBD
1.6	Flood Plain Management Regulations. Effectively administer an	d enforce local floodplain	management regula	tions.		
1.6.1	Train local flood plain managers through programs offered by the State Flood Plain Coordinator and FEMA's training center in Emmitsburg, Maryland.	Local Floodplain Manager	High	Long- Range/Ongoing	Local Funds	TBD
1.6.2	Maintain a library of technical assistance and guidance materials to support the local floodplain manager.	Mobile County EMA	Medium	Ongoing	Local Funds	TBD
1.6.4	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association of Flood Plain Managers and encourage active participation.	Local Floodplain Manager	High	Short-Range	Local Funds	TBD
1.6.5	Participate in the "Turn Around Don't Drown" program by purchasing and installing signs in known flash flood bridge overpass locations.	Local Floodplain Manager	Medium	Short-Range	Other	TBD
1.6.6	Improve flood risk assessment by documenting high water marks post event, verifying FEMA's repetitive loss inventory and revising and updating regulatory floodplain maps.	Local Floodplain Manager	Low	Long-Range	FEMA HMA Funding	TBD

City of Creola Community Action Pro	ogram				
Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Fimeline Short-Range=less than 2 years Wid-Range=2-5 years -ong-Range=more than 5 years	Funding Source	Estimated Cost
	ess of standards to prote			atural hazar	_
damages.					
Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	Building Official	High	Ongoing	Local Funds	TBD
Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of "hurricane clips."	Building Official	High	Short-Range	Local Funds	TBD
Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters.	Building Official	Low	Mid-Range	Local Funds	TBD
Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	Building Official	High	Short-Range	Local Funds	TBD
Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	Local Government	High	Ongoing	FEMA HMA Grant	TBD
Storm Water Management. Manage the impacts of land developr	nent on storm water runof	ff rates and to natura	l drainage system	ıs.	
Promote the adoption/enforcement of storm water management regulations that maintain pre-development runoff rates.	Local Floodplain Manager	High	Ongoing	Local Funds	TBD
Develop, adopt and implement subdivision regulations that require proper stormwater infrastructure design and construction.	Local Government	High	Ongoing	Local Funds	TBD
	Goal, Objectives and Mitigation Measures Building and Technical Codes. Review local codes for effective damages. Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events. Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of "hurricane clips." Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters. Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures. Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible. Storm Water Management. Manage the impacts of land development regulations that maintain pre-development runoff rates. Develop, adopt and implement subdivision regulations that require	Building and Technical Codes. Review local codes for effectiveness of standards to prote damages. Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events. Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of "hurricane clips." Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters. Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures. Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible. Storm Water Management. Manage the impacts of land development on storm water runof regulations that maintain pre-development runoff rates. Develop, adopt and implement subdivision regulations that require	Building and Technical Codes. Review local codes for effectiveness of standards to protect buildings and infridamages. Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events. Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from nurricanes, tornadoes, and windstorms; encourage installation of hurricane clips." Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters. Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures. Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible. Storm Water Management. Manage the impacts of land development on storm water runoff rates and to natural Promote the adoption/enforcement of storm water management regulations that maintain pre-development runoff rates. Develop, adopt and implement subdivision regulations that require local Government High	Goal, Objectives and Mitigation Measures Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events. Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms, encourage installation of hurricane, tornadoes, and windstorms, encourage installation of hurricane clips." Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters. Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures. Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible. Storm Water Management_Manage the impacts of land development on storm water runoff rates and to natural drainage system. Develop, adopt and implement subdivision regulations that require Local Government High Ongoing Ongoing Develop, adopt and implement subdivision regulations that require Local Government High Ongoing Ongoing Develop, adopt and implement subdivision regulations that require Local Government High Ongoing Ongoing Develop, adopt and implement subdivision regulations that require Local Government High Ongoing Ongoing Develop, adopt and implement subdivision regulations that require Local Government High Ongoing Ongoing Develop, adopt and implement subdivision regulations that require Local Government High Ongoing Develop, adopt and implement subdivision regulations that require Local Government High Ongoing Develop, adopt and implement subdivision regulations that require Local Government High Ongoing Develop, adopt and implement subdivision regulations that require Local Government High Ongoing Develop, adopt and implement subdivision regulations that require Local Government High Ongoing	Goal, Objectives and Mitigation Measures Page Dispute Dispu

	City of Creola Community Action Pro	ogram					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost	
1.10	Dam Safety Management. Establish a comprehensive dam safet	y program.	_	,, v, (1 = ±		_	
1.10.1	Support legislation to establish a State dam safety program.	Local Government	Low	Mid-Range	Local Funds	TBD	
1.11	1 Community Rating System Program (CRS). Increase participation of NFIP member communities in the CRS Program.						
1.11.1	Apply for/maintain membership in the CRS Program; continue to upgrade rating.	Local Floodplain Manager	High	Short-Range	Local Funds	TBD	
1.12	<u>Critical Facilities Assessments.</u> Perform assessments of critical special needs housing, and others) to address building and site vulnerability to damage and disruption of operations during sev	vulnerabilities to hazards,	identify damage co		•		
1.12.1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD	
1.12.2	Conduct wildfire vulnerability assessments, including the vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive inventory to identify high and moderate wildfire risk areas.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD	
2	Goal for Property Protection. Protect structures and their occup	ants and contents from the	e damaging effects o	of natural hazards			
2.1	Building Relocation. Relocate buildings out of hazardous flood a	areas to safeguard against	damages and estab	lish permanent op	oen space.		

	City of Creola Community Action Pro	ogram						
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost		
2.1.1	Pursue FEMA grant funds to relocate buildings out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	Building Official	High	Short-Range	FEMA HMA Grant	TBD		
2.2	2.2 Acquisition. Acquire flood prone buildings and properties and establish permanent open space.							
2.2.1	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Building Official	High	Short-Range	FEMA HMA Grant	TBD		
2.2.2	Utilize the recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Building Official	High	Short-Range	FEMA HMA Grant	TBD		
2.3	Building Elevation. Elevate buildings in hazardous flood areas t	to safeguard against dama	ges.					
2.3.1	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD		
2.3.2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD		
2.4	Flood Proofing. Encourage flood proofing of buildings in hazard	dous flood areas to safegu	ard against damage	S.				

	City of Creola Community Action Pr	ogram						
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Fimeline Short-Range=less than 2 years Wid-Range=2-5 years -ong-Range=more than 5 years	Funding Source	Estimated Cost		
2.4.1	Pursue FEMA grant funds for flood proofing pre-FIRM non- residential buildings, where feasible.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD		
2.5	2.5 Building Retrofits. Retrofit vulnerable buildings to protect against natural hazards damages, including flooding, high winds, tornadoes, hurricanes, severe storms, and earthquakes.							
2.5.1	Pursue FEMA grant funds to retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD		
2.5.2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	Building Official	Medium	Short-Range	Local Funds	TBD		
2.6	Hazard Insurance Awareness. Increase public awareness of flosinkhole, and other damages typically not covered by standard		-	l quired for earthqu	ake, landslid	le,		
2.6.1	Promote the purchase of insurance coverage by property owners and renters for flood damages in high-risk areas.	Local Floodplain Manager	High	Ongoing	Local Funds	TBD		
2.7	<u>Critical Facilities Protection</u> . Protect critical facilities from pote relocations of existing facilities located in high-risk zones or co	•			•	ofits or		
2.7.1	Install lightning and/or surge protection on existing critical facilities.	Building Official	Low	Long-Range	TBD	TBD		
2.8	Back Up Power. Ensure uninterrupted power supply to critical t	acilities during emergency	events.					

	City of Creola Community Action Pro	gram					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost	
2.8.1	Pursue grant funding for the installation of back up power generators for critical facilities.	Building Official	High	Short-Range	FEMA HMA Grant	TBD	
3	Goal for Public Education and Outreach. Educate and inform the public about the risks of hazards and the techniques available to reduce threats to life and property.						
3.1	Map Information. Increase public access to Flood Insurance Rat	e Map (FIRM) information					
3.1.1	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	Building Official	Low	Mid-Range	Local Funds	TBD	
3.2	Outreach Projects. Conduct regular public events to inform the p	oublic of hazards and miti	gation measures.				
3.2.1	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Mobile County EMA	High	Ongoing	Local Funds	TBD	
3.2.2	Distribute materials, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	Mobile County EMA	High	Ongoing	Local Funds	TBD	
3.2.3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	Local Government	Low	Long-Range	Local Funds	TBD	

	City of Creola Community Action Pro	gram				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
3.2.4	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Local Government	High	Short-Range	Local Funds	TBD
3.3	<u>Library.</u> Use local library resources to educate the public on haz	zard risks and mitigation a	Iternatives.			
3.3.1	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.	Mobile County EMA	Medium	Mid-Range	Local Funds	TBD
3.4	Education Programs. Use schools and other community education measures.	l on resources to conduct p	Drograms on topics i	l related to hazard r	isks and mit	igation
3.4.1	Distribute hazard mitigation brochures to students through area schools.	Mobile County EMA	Medium	Mid-Range	Local Funds	TBD
3.5	Community Hazard Mitigation Plan Distribution. Distribute the habusinesses, and residents, using all available means of publication		ected officials, intere	ested agencies and	d organizatio	ons,
3.5.1	Distribute the 2015 plan to local officials, stakeholders, and interested individuals through internet download.	Mobile County EMA	High	Short-Range	Local Funds	TBD
3.6	Technical Assistance. Make qualified local government staff ava	ilable to advise property o	wners on various ha	azard risks and mi	tigation alte	rnatives.
3.6.1	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Building Official	High	Short-Range	Local Funds	TBD
3.7	Mass Media Relations. Utilize all available mass media, such as, on-line social networking to increase public awareness and distr				video sharin	g, and

	City of Creola Community Action Pro	ogram				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Fimeline Short-Range=less than 2 years Mid-Range=2-5 years cong-Range=more	Funding Source	Estimated Cost
3.7.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Mobile County EMA	Medium	Mid-Range	Local Funds	TBD
3.8	Weather Radios. Improve public access to weather alerts.					
3.8.1	Promote the use of weather radios in households and businesses.	Local Government	High	Short-Range	Local Funds	TBD
3.8.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	Local Government	High	Short-Range	Local Funds	TBD
3.9	<u>Disaster Warning.</u> Improve public warning systems.					
3.9.4	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	Mobile County EMA	High	Short-Range	FEMA HMA Grant	TBD
3.9.5	Upgrade critical communications infrastructure.	Mobile County EMA	High	Short-Range	FEMA HMA Grant	TBD
4	Goal for Natural Resources Protection. Preserve and restore the development that balances the constraints of nature with the so				tainable com	nmunity
4.1	Open Space Easements and Acquisitions. Acquire easements and plains, and wetlands to assure permanent protection of these na		f environmentally b	eneficial lands, su	ich as hillsid	es, flood

	City of Creola Community Action Pro	ogram				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
4.1.1	Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.	Local Government	High	Short-Range	FEMA HMA Grant	TBD
4.2	River/Stream Corridor Restoration and Protection. Restore and	protect river and stream c	orridors within areas	S.		
4.2.1	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Local Government	High	Ongoing	Other	TBD
4.2.2	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	Local Government	High	Ongoing	Local Funds	TBD
4.3	<u>Urban Forestry Programs.</u> Maintain a healthy forest that can help within urban areas.	o mitigate the damaging in	npacts of flooding, e	rosion, landslides	s, and wild fi	res
4.3.1	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).	Local Government	Medium	Mid-Range	Local Funds	TBD
4.4	Water Resources Conservation Programs. Protect water quantity droughts and assure uninterrupted potable water supplies.	y and quality through wate	er conservation prog	rams to mitigate t	the effects of	
4.4.1	Enforce water use restrictions during periods of drought to conserve existing water supplies.	Local Government	Medium	Long-Range	Local Funds	TBD
5	Goal for Structural Projects. Apply engineered structural modific damaging impacts of hazards, where feasible, cost effective, and	-	•	cture to reduce th	ne potentially	′
5.1	<u>Drainage System Maintenance.</u> Improve maintenance programs	for streams and drainage	ways.			

	City of Creola Community Action Pro	gram				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
5.1.1	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Building Official/Mobile County EMA	Medium	Short-Range	Local Funds	TBD
5.2	Reservoirs and Drainage System Improvements. Control floodin effective and feasible, such as levees/floodwalls, diversions, cha	-	•			t
5.2.1	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Building Official/Local Government	High	Mid-Range	FEMA HMA Grant	TBD
5.3	Community Shelters and Safe Rooms. Provide shelters from nat	ural hazards for the safety	of community resid	lents.		
5.3.1	Construct new community safe rooms in accessible locations and add safe rooms within new and existing public and institutional buildings, such as schools, colleges and universities, senior centers, community centers, hospitals, and government buildings.	Local Government	High	Long-Range	FEMA HMA Grant	TBD
5.3.2	Establish a program for subsidizing individual and community safe room construction in appropriate locations and facilities.	Local Government	High	Long-Range	FEMA HMA Grant	TBD
5.3.3	Encourage the construction of safe rooms in new and existing homes and buildings.	Local Government	High	Long-Range	FEMA HMA Grant	TBD

C.6 Dauphin Island Community Action Program

Town	of Dauphin Island Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1	<u>Goal for Prevention.</u> Manage the development of land and buildi	ngs to minimize risks of lo	oss due to natural ha	zards.		
1.1	Comprehensive Plans and Smart Growth. Establish an active co sustainable community development.	mprehensive planning pro	ogram that is consist	ent with Smart Gro	owth princip	oles of
1.1.1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.	Building Official	Low	Long- Range/Ongoing	Local Funds	TBD
1.1.2	Integrate the findings and recommendations of this plan into comprehensive plan amendments for jurisdictions with active comprehensive planning programs.	Building Official	Low	Long- Range/Ongoing	Local Funds	TBD
1.1.3	Prepare a five-year capital improvements plan (CIP) to include capital projects that implement the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	Building Official	Low	Long-Range	Local Funds	TBD

Town	of Dauphin Island Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Func	Estimated Cost
1.2	Geographic Information Systems (GIS). Maintain a comprehensi facilities inventories.	ve database of hazards loo	cations, socio econo	omic data, infrastr	ucture, and o	critical
1.2.1	Maintain a centralized, countywide natural hazards and risk assessment database in GIS that is accessible to local planners and emergency management personnel, including such data as, flood zones, geohazards, major drainage structures, dams/levees, hurricane surge areas, tornado tracks, disaster events and their extents, and a comprehensive inventory of critical facilities within all jurisdictions.	Mobile County EMA	Low	Mid-Range	НМА	TBD
1.2.2	Integrate FEMA HAZUS-MH applications for hazard loss estimations within local GIS programs. Maintain up-to-date data within GIS to apply the full loss estimation capabilities of HAZUS.	Mobile County EMA	Low	Mid-Range	FEMA HMA Grant	TBD
1.3	Planning Studies. Conduct special studies, as needed, to identi	fy hazard risks and mitiga	tion measures.			
1.3.1	Carry out detailed planning and engineering studies for sub- basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Local Floodplain Manager	Medium	Long-Range	FEMA HMA Grant	TBD
1.3.2	Identify existing culturally or socially significant structures and critical facilities within Mobile County that have the most potential for losses from natural hazard events and identify needed structural upgrades.	Building Official	Low	Long-Range	TBD	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1.3.3	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	Building Official	Low	Long-Range	TBD	TBD
1.3.4	Inventory and map existing fire hydrants throughout the county, and identify areas in need of new fire hydrants.	Building Official	Low	Long-Range	TBD	TBD
1.3.5	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	City Engineer	Medium	Long-Range	FEMA HMA Grant	TBD
1.4	Zoning. Establish effective zoning controls, where applicable, to development.	vulnerable land areas to	discourage environ	mentally incompat	ible land use	e and
1.4.1	Consider large lot size restrictions on flood prone areas designated on Flood Insurance Rate Maps.	Mayor and Council	Medium	Short-Range	Local Funds	TBD
1.4.2	Evaluate additional land use restrictions within designated flood zones, such as prohibition of storage of buoyant materials, storage of hazardous materials, restrictive development of flood ways, among others.	Mayor and Council	Medium	Short-Range	Local Funds	TBD
1.4.3	Require delineation of flood plain fringe, floodways, and wetlands on all plans submitted with a permit for development within a flood plain.	Mayor and Council	Medium	Short-Range	Local Funds	TBD
1.4.4	Enact local ordinance that require community storm shelters within sizeable mobile home parks and subdivisions.	Mayor and Council	High	Short-Range	Local Funds	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Func	Estimated Cost
1.5	Open Space Preservation. Minimize disturbances of natural land natural features such as open space for parks, conservation are			nrough regulations	that maintai	n critical
		,g,g,				
1.5.1	Examine regulatory options and feasibility of requiring open space areas for recreation, landscaping, and drainage control.	Mayor and Council	Medium	Mid-Range	Local Funds	TBD
1.6	Flood Plain Management Regulations. Effectively administer an	d enforce local floodplain	management regul	ations.		
1.6.1	Train local flood plain managers through programs offered by the State Flood Plain Coordinator and FEMA's training center in Emmitsburg, Maryland.	Local Floodplain Manager	High	Long- Range/Ongoing	Local Funds	TBD
1.6.2	Maintain a library of technical assistance and guidance materials to support the local floodplain manager.	Local Floodplain Manager	Medium	Ongoing	Local Funds	TBD
1.6.4	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association of Flood Plain Managers and encourage active participation.	Local Floodplain Manager	High	Short-Range	Local Funds	TBD
1.6.5	Participate in the "Turn Around Don't Drown" program by purchasing and installing signs in known flash flood bridge overpass locations.	Local Floodplain Manager	Medium	Short-Range	Other	TBD
1.6.6	Improve flood risk assessment by documenting high water marks post event, verifying FEMA's repetitive loss inventory and revising and updating regulatory floodplain maps.	Local Floodplain Manager	Medium	Long-Range	Other	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more	Func	Estimated Cost
1.7	Building and Technical Codes. Review local codes for effectiven damages.	ess of standards to prot	tect buildings and i	nfrastructure from n	atural hazar	d
.7.1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	Building Official	High	Ongoing	Local Funds	TBD
.7.2	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of "hurricane clips."	Building Official	High	Short-Range	Local Funds	TBD
.7.4	Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters.	Building Official	Low	Mid-Range	Local Funds	TBD
.7.5	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	Building Official	High	Short-Range	Local Funds	TBD
.7.6	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	Mayor and Council	High	Ongoing	FEMA HMA Grant	TBD
1.8	Storm Water Management. Manage the impacts of land developr	nent on storm water run	off rates and to nat	ural drainage systen	ns.	
8.1	Promote the adoption/enforcement of storm water management regulations that maintain pre-development runoff rates.	Local Floodplain Manager	High	Ongoing	Local Funds	TBD
.8.2	Develop, adopt and implement subdivision regulations that require proper stormwater infrastructure design and construction.	Mayor and Council	High	Ongoing	Local Funds	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more	Funding Source	Estimated Cost
9	<u>Dam Safety Management.</u> Establish a comprehensive dam safe	ty program.				
1.9.1	Support legislation to establish a State dam safety program.	Mayor and Council	Low	Mid-Range	Local Funds	TBD
1.10	Community Rating System Program (CRS). Increase participation	on of NFIP member comm	unities in the CRS	S Program.		
1.10.1	Apply for/maintain membership in the CRS Program; continue to upgrade rating.	Local Floodplain Manager	High	Short-Range	Local Funds	TBD
1.10.1 1.11	upgrade rating. Critical Facilities Assessments. Perform assessments of critica special needs housing, and others) to address building and site vulnerability to damage and disruption of operations during severage.	Manager I facilities (hospitals, school vulnerabilities to hazards	pols, fire and polic s, identify damage	ce stations, emergen	Funds cy operation of measures to	centers,
	upgrade rating. Critical Facilities Assessments. Perform assessments of critical special needs housing, and others) to address building and site vulnerability to damage and disruption of operations during several perform vulnerability assessments of critical facilities to identify	Manager I facilities (hospitals, school vulnerabilities to hazards	pols, fire and polic s, identify damage	ce stations, emergen	Funds	centers,
1.11	Critical Facilities Assessments. Perform assessments of critical special needs housing, and others) to address building and site vulnerability to damage and disruption of operations during sever perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate	Manager I facilities (hospitals, school vulnerabilities to hazards were weather and disaster	ools, fire and polic s, identify damage events.	ce stations, emergen control and retrofit	Funds cy operation of measures to FEMA HMA	centers, reduce

Town	of Dauphin Island Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
2.1.1	Pursue FEMA grant funds to relocate buildings out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	Building Official	High	Short-Range	FEMA HMA Grant	TBD
2.2	Acquisition. Acquire flood prone buildings and properties and o	establish permanent open	space.			
2.2.1	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Building Official	High	Short-Range	FEMA HMA Grant	TBD
2.2.2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Building Official	High	Short-Range	FEMA HMA Grant	TBD
2.3	Building Elevation. Elevate buildings in hazardous flood areas	to safeguard against dama	ges.			
2.3.1	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD
2.3.2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD
2.4	Flood Proofing. Encourage flood proofing of buildings in hazar	dous flood areas to safegu	ard against damage	s.		

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more	Funding Source	Estimated Cost
2.4.1	Pursue FEMA grant funds for flood proofing pre-FIRM non- residential buildings, where feasible.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD
2.5	Flood Control Measures. Construct small flood control measure	s to reduce/prevent flood	I damage.			
2.5.1	Examine use of minor structural projects (small berm or floodwalls) in areas that cannot be mitigated through non-	Building Official	Low	Long-Range	FEMA HMA	TBD
	structural mitigation techniques.				Grant	
2.6	structural mitigation techniques. <u>Building Retrofits</u> . Retrofit vulnerable buildings to protect agains severe storms, and earthquakes.	st natural hazards damag	es, including flood	ling, high winds, tor	-	icanes,
	Building Retrofits. Retrofit vulnerable buildings to protect against	st natural hazards damag	es, including flood Medium	ling, high winds, tor Short-Range	-	TBD
2.6.1	Building Retrofits. Retrofit vulnerable buildings to protect agains severe storms, and earthquakes. Pursue FEMA grant funds to retrofit existing buildings, critical facilities, and infrastructure against potential damages from				FEMA HMA	
2.6.1	Building Retrofits. Retrofit vulnerable buildings to protect against severe storms, and earthquakes. Pursue FEMA grant funds to retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards. Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards	Building Official Building Official d insurance and special r	Medium Medium iders that may be	Short-Range Short-Range	FEMA HMA Grant Local Funds	TBD

Town	of Dauphin Island Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
2.8.1	Install lightning and/or surge protection on existing critical facilities.	Building Official	Low	Long-Range	TBD	TBD
2.9	Backup Power. Ensure uninterrupted power supply to critical fac	ilities during emergency	events.			
2.9.1	Pursue grant funding for the installation of backup power generators for critical facilities.	Building Official	High	Short-Range	FEMA HMA Grant	TBD
3	Goal for Public Education and Outreach. Educate and inform the life and property.	public about the risks of	hazards and the tecl	nniques available	to reduce th	reats to
3.1	Map Information. Increase public access to Flood Insurance Rat	e Map (FIRM) information				
3.1.1	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	Building Official	Low	Mid-Range	Local Funds	TBD
3.2	Outreach Projects. Conduct regular public events to inform the p	public of hazards and mitig	gation measures.			
3.2.1	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Mobile County EMA	High	Ongoing	Local Funds	TBD
3.2.2	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	Mobile County EMA	High	Ongoing	Local Funds	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
3.2.3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	Mayor and Council	Low	Long-Range	Local Funds	TBD
3.2.4	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Mayor and Council	High	Short-Range	Local Funds	TBD
3.3	Library. Use local library resources to educate the public on haz	ard risks and mitigation a	Iternatives.			
3.3.1	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.	Mobile County EMA	Medium	Mid-Range	Local Funds	TBD
3.4	Education Programs. Use schools and other community education measures.	on resources to conduct p	programs on topics i	elated to hazard ri	sks and mit	igation
3.4.1	Distribute hazard mitigation brochures to students through area schools.	Mobile County EMA	Medium	Mid-Range	Local Funds	TBD
3.5	Community Hazard Mitigation Plan Distribution. Distribute the habusinesses, and residents, using all available means of publication	•	ected officials, intere	ested agencies and	d organizatio	ons,
3.5.1	Distribute the 2015 plan to local officials, stakeholders, and interested individuals through internet download.	Mobile County EMA	High	Short-Range	Local Funds	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
3.6.1	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Building Official	High	Short-Range	Local Funds	TBD
3.7	Mass Media Relations. Utilize all available mass media, such as, on-line social networking to increase public awareness and distributed in the social networking to increase public awareness and distributed in the social networking to increase public awareness and distributed in the social networking to increase public awareness and distributed in the social networking to increase public awareness and distributed in the social networking to increase public awareness and distributed in the social networking to increase public awareness and distributed in the social networking to increase public awareness and distributed in the social networking to increase public awareness and distributed in the social networking to increase public awareness and distributed in the social networking to increase public awareness and distributed in the social networking to increase public awareness and distributed in the social networking to increase public awareness and distributed in the social networking to increase public awareness and distributed in the social networking to increase public awareness and distributed in the social networking to th				video sharin	g, and
3.7.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Mobile County EMA	Medium	Mid-Range	Local Funds	TBD
3.8	Weather Radios. Improve public access to weather alerts.					
3.8.1	Promote the use of weather radios in households and businesses.	Mayor and Council	High	Short-Range	Local Funds	TBD
3.8.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	Mayor and Council	High	Short-Range	Local Funds	TBD
3.9	Disaster Warning. Improve public warning systems.					
5.9.4	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	Mobile County EMA	High	Short-Range	FEMA HMA Grant	TBD
.9.5	Upgrade critical communications infrastructure.	Mobile County EMA	High	Short-Range	FEMA HMA Grant	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure		Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more	Source	d Cost
		L Respon Carry Me	Priority	Timeline Short-Range: 2 years Mid-Range=2 Long-Range=	Funding Source	Estimated Cost
4.1	Open Space Easements and Acquisitions. Acquire easements ar plains, and wetlands to assure permanent protection of these na			/ beneficial lands, s	uch as hillsid	es, flood
1.1.1	Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.	Mayor and Council	High	Short-Range	FEMA HMA Grant	TBD
4.2	River/Stream Corridor Restoration and Protection. Restore and	protect river and stream o	corridors within ar	eas.		
1.2.1	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Mayor and Council	High	Ongoing	Other	TBD
1.2.2	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	Mayor and Council	High	Ongoing	Local Funds	TBD
4.3	<u>Urban Forestry Programs.</u> Maintain a healthy forest that can help within urban areas.	o mitigate the damaging in	npacts of flooding	g, erosion, landslide	s, and wild fi	res
1.3.1	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).	Mayor and Council	Medium	Mid-Range	Local Funds	TBD
4.4	Beach and Dune Protection/Renourishment. Protect beaches and programs.	d dunes from coastal and	man-made erosio	on and implement re	nourishment	
1.4.1	Restore and protect wetlands to enhance stormwater drainage.	Mayor and Council	Medium	Mid-Range	Local Funds	TBD
1.4.2	Develop a coastal renourishment program.	Mayor and Council	Low	Long-Range	Other	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Func	Estimated Cost
4.5	Water Resources Conservation Programs. Protect water quantity droughts and assure uninterrupted potable water supplies.	ty and quality through water	er conservation pro	grams to mitigate	the effects of	
4.5.1	Enforce water use restrictions during periods of drought to conserve existing water supplies.	Mayor and Council	Medium	Long-Range	Local Funds	TBD
5	Goal for Structural Projects. Apply engineered structural modifi	•	•	ucture to reduce th	he potentially	
	damaging impacts of hazards, where feasible, cost effective, an	a environmentally suitable	·•			
	Drainage System Maintenance. Improve maintenance programs					
5.1 5.1.1				Short-Range	Local Funds	TBD
5.1 5.1.1	Drainage System Maintenance. Improve maintenance programs Prepare and implement standard operating procedures and	Building Official/Mobile County EMA g through reservoirs and	ways. Medium other structural imp	provements, where	Funds deemed cost	
5.1	Drainage System Maintenance. Improve maintenance programs Prepare and implement standard operating procedures and guidelines for drainage system maintenance. Reservoirs and Drainage System Improvements. Control flooding	Building Official/Mobile County EMA g through reservoirs and	ways. Medium other structural imp	provements, where	Funds deemed cost	
5.1 5.1.1 5.2	Drainage System Maintenance. Improve maintenance programs Prepare and implement standard operating procedures and guidelines for drainage system maintenance. Reservoirs and Drainage System Improvements. Control floodineffective and feasible, such as levees/floodwalls, diversions, che Construct drainage improvements to reduce or eliminate localized	Building Official/Mobile County EMA ng through reservoirs and annel modifications, dredge Building Official/Mayor and Council	Medium other structural impling, drainage modi	provements, where fications, and stor	Funds e deemed cost m sewers. FEMA HMA	i

Town	of Dauphin Island Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Fimeline Short-Range=less than 2 years Mid-Range=2-5 years -ong-Range=more han 5 years	unding Source	Estimated Cost
	Establish a program for subsidizing individual and community safe room construction in appropriate locations and facilities.	Mayor and Council	High	Long-Range	FEMA HMA Grant	TBD
5.3.3	Encourage the construction of safe rooms in new and existing homes and buildings.	Mayor and Council	High	Long-Range	FEMA HMA Grant	TBD

C.8 Mount Vernon Community Action Program

Town	of Mount Vernon Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1	Goal for Prevention. Manage the development of land and buildi					
1.1	Comprehensive Plans and Smart Growth. Establish an active co sustainable community development.	emprenensive planning pro	ogram that is consist	tent with Smart Gr	owtn princip	DIES OT
1.1.1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.	Building Official	Low	Long- Range/Ongoing	Local Funds	TBD
1.1.2	Integrate the findings and recommendations of this plan into comprehensive plan amendments for jurisdictions with active comprehensive planning programs.	Building Official	Low	Long- Range/Ongoing	Local Funds	TBD
1.1.3	Prepare a five-year capital improvements plan (CIP) to include capital projects that implement the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	Building Official	Low	Long-Range	Local Funds	TBD

Town	of Mount Vernon Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Fun	Estimated Cost
1.2	Geographic Information Systems (GIS). Maintain a comprehension facilities inventories.	ve database of hazards loo	cations, socio econo	omic data, infrastr	ucture, and o	critical
1.2.1	Maintain a centralized, countywide natural hazards and risk assessment database in GIS that is accessible to local planners and emergency management personnel, including such data as, flood zones, geohazards, major drainage structures, dams/levees, hurricane surge areas, tornado tracks, disaster events and their extents, and a comprehensive inventory of critical facilities within all jurisdictions.	Mobile County EMA	Low	Mid-Range	НМА	TBD
1.2.2	Integrate FEMA HAZUS-MH applications for hazard loss estimations within local GIS programs. Maintain up-to-date data within GIS to apply the full loss estimation capabilities of HAZUS.	Mobile County EMA	Low	Mid-Range	FEMA HMA Grant	TBD
1.3	Planning Studies. Conduct special studies, as needed, to identif	y hazard risks and mitigat	tion measures.			
1.3.1	Carry out detailed planning and engineering studies for sub- basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Mobile County EMA	Medium	Long-Range	FEMA HMA Grant	TBD
1.3.2	Identify existing culturally or socially significant structures and critical facilities within Mobile County that have the most potential for losses from natural hazard events and identify needed structural upgrades.	Building Official	Low	Long-Range	TBD	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1.3.3	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	Building Official	Low	Long-Range	TBD	TBD
1.3.4	Inventory and map existing fire hydrants throughout the county, and identify areas in need of new fire hydrants.	Building Official	Low	Long-Range	TBD	TBD
1.3.5	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	City Engineer	Medium	Long-Range	FEMA HMA Grant	TBD
1.4	Zoning. Establish effective zoning controls, where applicable, to development.	vulnerable land areas to	discourage environi	mentally incompat	ible land use	e and
1.4.1	Consider large lot size restrictions on flood prone areas designated on Flood Insurance Rate Maps.	Mayor and Council	Medium	Short-Range	Local Funds	TBD
1.4.2	Evaluate additional land use restrictions within designated flood zones, such as prohibition of storage of buoyant materials, storage of hazardous materials, restrictive development of flood ways, among others.	Mayor and Council	Medium	Short-Range	Local Funds	TBD
1.4.3	Require delineation of flood plain fringe, floodways, and wetlands on all plans submitted with a permit for development within a flood plain.	Mayor and Council	Medium	Short-Range	Local Funds	TBD
1.4.4	Enact local ordinance that require community storm shelters within sizeable mobile home parks and subdivisions.	Mayor and Council	High	Short-Range	Local Funds	TBD

en Space Preservation. Minimize disturbances of natural land ural features such as open space for parks, conservation area mine regulatory options and feasibility of requiring open space as for recreation, landscaping, and drainage control.			through regulations	that maintai	n critical
					3111041
, 1 6	Mayor and Council	Medium	Mid-Range	Local Funds	TBD
od Plain Management Regulations. Effectively administer and	d enforce local floodplair	n management regu	lations.		
n local flood plain managers through programs offered by the e Flood Plain Coordinator and FEMA's training center in mitsburg, Maryland.	Local Floodplain Manager	High	Long- Range/Ongoing	Local Funds	TBD
ntain a library of technical assistance and guidance materials upport the local floodplain manager.	Local Floodplain Manager	Medium	Ongoing	Local Funds	TBD
ntain membership for locally designated flood plain managers ne Association of State Flood Plain Managers and the Alabama ociation of Flood Plain Managers and encourage active icipation.	Local Floodplain Manager	High	Short-Range	Local Funds	TBD
icipate in the "Turn Around Don't Drown" program by chasing and installing signs in known flash flood bridge rpass locations.	Local Floodplain Manager	Medium	Short-Range	Other	TBD
r en u	n local flood plain managers through programs offered by the er Flood Plain Coordinator and FEMA's training center in hitsburg, Maryland. Intain a library of technical assistance and guidance materials apport the local floodplain manager. Intain membership for locally designated flood plain managers are Association of State Flood Plain Managers and the Alabama ociation of Flood Plain Managers and encourage active cipation. In the "Turn Around Don't Drown" program by thasing and installing signs in known flash flood bridge pass locations.	In local flood plain managers through programs offered by the er Flood Plain Coordinator and FEMA's training center in hitsburg, Maryland. Intain a library of technical assistance and guidance materials apport the local floodplain manager. Intain membership for locally designated flood plain managers and the Alabama prociation of State Flood Plain Managers and the Alabama prociation of Flood Plain Managers and encourage active cipation. Interpretation of Flood Plain Managers and the Alabama prociation of Flood Plain Managers and encourage active cipation. Interpretation of Flood Plain Managers and the Alabama prociation of Flood Plain Managers and encourage active cipation. Interpretation of Flood Plain Managers and the Alabama prociation of Flood Plain Manager between the "Turn Around Don't Drown" program by the hasing and installing signs in known flash flood bridge pass locations. Interpretation of Flood Plain Manager between the "Turn Around Don't Drown" program by the hasing and installing signs in known flash flood bridge pass locations. Interpretation of Flood Plain Manager between the "Turn Around Don't Drown" program by the hasing and installing signs in known flash flood bridge pass locations.	I local flood plain managers through programs offered by the e Flood Plain Coordinator and FEMA's training center in hitsburg, Maryland. Itain a library of technical assistance and guidance materials apport the local floodplain manager. Itain membership for locally designated flood plain managers and the Alabama ociation of State Flood Plain Managers and the Alabama ociation of Flood Plain Managers and encourage active cipation. I cipate in the "Turn Around Don't Drown" program by thasing and installing signs in known flash flood bridge pass locations. I cocal Floodplain Manager Local Floodplain Manager High Medium Medium Medium Medium Medium	In local flood plain managers through programs offered by the e Flood Plain Coordinator and FEMA's training center in hitsburg, Maryland. Local Floodplain Manager Local Floodplain Manager High Long-Range/Ongoing Long-Range/Ongoing Local Floodplain Manager Medium Ongoing Anager Local Floodplain Manager Medium Ongoing Local Floodplain Manager Medium Ongoing Local Floodplain Manager Medium Ongoing Local Floodplain Manager Local Floodplain Manager Local Floodplain Manager Medium Ongoing Short-Range Cipate in the "Turn Around Don't Drown" program by hasing and installing signs in known flash flood bridge pass locations. Local Floodplain Manager Medium Short-Range Local Floodplain Manager Medium Short-Range Short-Range	In local flood plain managers through programs offered by the a Flood Plain Coordinator and FEMA's training center in hitsburg, Maryland. Local Floodplain Manager Local Floodplain Manager High Long-Range/Ongoing Range/Ongoing Local Floodplain Medium Ongoing Local Floodplain Manager Medium Ongoing Local Floodplain Medium Ongoing Local Floodplain Manager Local Floodplain Manager High Short-Range Local Floodplain Manager Medium Short-Range Local Floodplain Manager Local Floodplain Manager Local Floodplain Manager Medium Short-Range Other Medium Short-Range

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more	Funding Source	Estimated Cost
.7.1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	Building Official	High	Ongoing	Local Funds	TBD
.7.2	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of "hurricane clips."	Building Official	High	Short-Range	Local Funds	TBD
.7.4	Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters.	Building Official	Low	Mid-Range	Local Funds	TBD
.7.5	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	Building Official	High	Short-Range	Local Funds	TBD
.7.6	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	Mayor and Council	High	Ongoing	FEMA HMA Grant	TBD
1.9	Storm Water Management. Manage the impacts of land developr	ment on storm water runo	off rates and to na	tural drainage syster	ns.	
.9.1	Promote the adoption/enforcement of storm water management regulations that maintain pre-development runoff rates.	Mobile County EMA	High	Ongoing	Local Funds	TBD
.9.2	Develop, adopt and implement subdivision regulations that require proper stormwater infrastructure design and construction.	Mayor and Council	High	Ongoing	Local Funds	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more	Funding Source	Estimated Cost
1.10.1	Support legislation to establish a State dam safety program.	Mayor and Council	Low	Mid-Range	Local Funds	TBD
1.11	Community Rating System Program (CRS). Increase participation	n of NFIP member commu	inities in the CRS P	rogram.		
1.11.1	Apply for/maintain membership in the CRS Program; continue to upgrade rating.	Local Floodplain Manager	High	Short-Range	Local Funds	TBD
1.12	<u>Critical Facilities Assessments.</u> Perform assessments of critical special needs housing, and others) to address building and site vulnerability to damage and disruption of operations during sev	vulnerabilities to hazards,	, identify damage co		•	
	special needs housing, and others) to address building and site vulnerability to damage and disruption of operations during sev Perform vulnerability assessments of critical facilities to identify	vulnerabilities to hazards,	, identify damage co		•	
1.12.1 1.12.1	special needs housing, and others) to address building and site vulnerability to damage and disruption of operations during sev Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate	vulnerabilities to hazards, ere weather and disaster e	, identify damage co events.	ontrol and retrofit	FEMA HMA	reduce
1.12.1	special needs housing, and others) to address building and site vulnerability to damage and disruption of operations during sev Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards. Conduct wildfire vulnerability assessments, including the vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive	vulnerabilities to hazards, ere weather and disaster e Building Official Building Official	Medium Medium	Mid-Range Mid-Range	FEMA HMA Grant FEMA HMA Grant	

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
2.1.1	Pursue FEMA grant funds to relocate buildings out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	Building Official	High	Short-Range	FEMA HMA Grant	TBD
2.2	Acquisition. Acquire flood prone buildings and properties and e	establish permanent open	space.			
2.2.1	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Building Official	High	Short-Range	FEMA HMA Grant	TBD
2.2.2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Building Official	High	Short-Range	FEMA HMA Grant	TBD
2.3	Building Elevation. Elevate buildings in hazardous flood areas t	o safeguard against dama	iges.			
2.3.1	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD
2.3.2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
2.4.1	Pursue FEMA grant funds for flood proofing pre-FIRM non- residential buildings, where feasible.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD
2.5	<u>Building Retrofits</u> . Retrofit vulnerable buildings to protect agains severe storms, and earthquakes.	st natural hazards damage	es, including flooding	g, high winds, torr	adoes, hurr	icanes,
2.5.1	Pursue FEMA grant funds to retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	Building Official	Medium		FEMA HMA Grant	TBD
2.5.2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	Building Official	Medium	Short-Range	Local Funds	TBD
2.6	Hazard Insurance Awareness. Increase public awareness of floor sinkhole, and other damages typically not covered by standard p	•		quired for earthqua	ake, landslid	e,
2.6.1	Promote the purchase of insurance coverage by property owners and renters for flood damages in high-risk areas.	Mobile County EMA	High	Ongoing	Local Funds	TBD
2.7	<u>Critical Facilities Protection</u> . Protect critical facilities from potent relocations of existing facilities located in high-risk zones or con				_	ofits or
2.7.1	Install lightning and/or surge protection on existing critical facilities.	Building Official	Low	Long-Range	TBD	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
2.8.1	Pursue grant funding for the installation of backup power generators for critical facilities.	Building Official	High	Short-Range	FEMA HMA Grant	TBD
3	Goal for Public Education and Outreach. Educate and inform the life and property.	public about the risks of	hazards and the tech	nniques available	to reduce th	reats to
3.1	Map Information. Increase public access to Flood Insurance Rate	e Map (FIRM) information				
3.1.1	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	Building Official	Low	Mid-Range	Local Funds	TBD
3.2	Outreach Projects. Conduct regular public events to inform the p	ublic of hazards and miti	gation measures.			
3.2.1	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Mobile County EMA	High	Ongoing	Local Funds	TBD
3.2.2	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	Mobile County EMA	High	Ongoing	Local Funds	TBD
3.2.3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster	Mayor and Council	Low	Long-Range	Local	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2.5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
3.2.4	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Mayor and Council	High	Short-Range	Local Funds	TBD
3.3	<u>Library.</u> Use local library resources to educate the public on haz	zard risks and mitigation a	alternatives.			
3.3.1	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.	Mobile County EMA	Medium	Mid-Range	Local Funds	TBD
3.4	Education Programs. Use schools and other community educati measures.	on resources to conduct p	programs on topics	related to hazard r	sks and miti	gation
3.4.1	Distribute hazard mitigation brochures to students through area schools.	Mobile County EMA	Medium	Mid-Range	Local Funds	TBD
	Community Hazard Mitigation Plan Distribution. Distribute the habusinesses, and residents, using all available means of publications.		ected officials, inter	ested agencies and	d organizatio	ons,
3.5						
3.5 3.5.1	Distribute the 2015 plan to local officials, stakeholders, and interested individuals through internet download.	Mobile County EMA	High	Short-Range	Local Funds	TBD
	· ·	,	Ü	, and the second	Funds	

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more	Funding Source	Estimated Cost
3.7.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Mobile County EMA	Medium	Mid-Range	Local Funds	TBD
3.8	Weather Radios. Improve public access to weather alerts.					
3.8.1	Promote the use of weather radios in households and businesses.	Mayor and Council	High	Short-Range	Local Funds	TBD
3.8.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	Mayor and Council	High	Short-Range	Local Funds	TBD
3.9	Disaster Warning. Improve public warning systems.					
3.9.4	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	Mobile County EMA	High	Short-Range	FEMA HMA Grant	TBD
3.9.5	Upgrade critical communications infrastructure.	Mobile County EMA	High	Short-Range	FEMA HMA Grant	TBD
4	Goal for Natural Resources Protection. Preserve and restore the development that balances the constraints of nature with the so				stainable com	munity

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years		Estimated Cost
4.1.1	Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.	Mayor and Council	High	Short-Range	FEMA HMA Grant	TBD
4.2	River/Stream Corridor Restoration and Protection. Restore and	protect river and stream o	orridors within area	s.		
4.2.1	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Mayor and Council	High	Ongoing	Other	TBD
4.2.2	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	Mayor and Council	High	Ongoing	Local Funds	TBD
4.3	<u>Urban Forestry Programs.</u> Maintain a healthy forest that can help within urban areas.	mitigate the damaging ir	mpacts of flooding, e	erosion, landslides	s, and wild fi	res
4.3.1	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).	Mayor and Council	Medium	Mid-Range	Local Funds	TBD
4.4	Water Resources Conservation Programs. Protect water quantity droughts and assure uninterrupted potable water supplies.	v and quality through wate	er conservation proc	grams to mitigate t	the effects of	
4.4.1	Enforce water use restrictions during periods of drought to conserve existing water supplies.	Mayor and Council	Medium	Long-Range	Local Funds	TBD
5	Goal for Structural Projects. Apply engineered structural modific damaging impacts of hazards, where feasible, cost effective, and			cture to reduce th	ne potentially	/

Town	of Mount Vernon Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
5.1.1	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Building Official/Mobile County EMA	Medium	Short-Range	Local Funds	TBD
5.2	Reservoirs and Drainage System Improvements. Control floodin effective and feasible, such as levees/floodwalls, diversions, cha	~ ~	•			t
5.2.1	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Building Official/Mayor and Council	High	Mid-Range	FEMA HMA Grant	TBD
5.3	Community Shelters and Safe Rooms. Provide shelters from nat	ural hazards for the safety	of community resid	lents.		
5.3.1	Construct new community safe rooms in accessible locations and add safe rooms within new and existing public and institutional buildings, such as schools, colleges and universities, senior centers, community centers, hospitals, and government buildings.	Mayor and Council	High	Long-Range	FEMA HMA Grant	TBD
5.3.2	Establish a program for subsidizing individual and community safe room construction in appropriate locations and facilities.	Mayor and Council	High	Long-Range	FEMA HMA Grant	TBD
5.3.3	Encourage the construction of safe rooms in new and existing homes and buildings.	Mayor and Council	High	Long-Range	FEMA HMA Grant	TBD

C.9 Prichard Community Action Program 2021

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more	Funding Source	Estimated Cost
1.2	Goal for Prevention. Manage the development of land and building the second sec			zards.		
1.2	ramming Studies. Communict Special Studies, as meeded, to identify	iy ilazaru iləkə allu illiliya	uon measures.			
1.2.3	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	Building Official	Low	Long-Range	TBD	TBD
1.2.4	Inventory and map existing fire hydrants throughout the county, and identify areas in need of new fire hydrants.	City Engineer	Low	Long-Range	TBD	TBD
1.2.5	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	City Engineer	Medium	Long-Range	FEMA HMA Grant	TBD
1.3	Zoning. Establish effective zoning controls, where applicable, to development.	vulnerable land areas to	l discourage environn	l nentally incompat	tible land use	e and
1.3.1	Consider large lot size restrictions on flood prone areas designated on Flood Insurance Rate Maps.	Mayor and City Council	Medium	Short-Range	Local Funds	TBD
	Enact local ordinance that require community storm shelters				1	-

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2.5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1.4	Flood Plain Management Regulations. Effectively administer an	d enforce local floodplain		tions.		
1.4.4	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association of Flood Plain Managers and encourage active participation.	Local Floodplain Manager/Mobile County EMA	High	Short-Range	Local Funds	TBD
1.4.5	Participate in the "Turn Around Don't Drown" program by purchasing and installing signs in known flash flood bridge overpass locations.	Local Floodplain Manager/Mobile County EMA	Medium	Short-Range	Other	TBD
1.5	Building and Technical Codes. Review local codes for effectiven damages.	less of standards to protec	ct buildings and infra	astructure from na	tural hazar	d
1.5.1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	Building Official	High	Ongoing	Local Funds	TBD
1.5.2	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of "hurricane clips."	Building Official	High	Short-Range	Local Funds	TBD
1.5.3	Relocate existing utility lines underground, where feasible and cost effective, and require, through local subdivision and land development regulations, the placement of all new utility lines underground for large residential subdivisions and commercial developments.	Building Official	High	Short-Range	Local Funds	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1.5.4	Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters.	Building Official	Low	Mid-Range	Local Funds	TBD
1.5.5	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	Building Official	High	Short-Range	Local Funds	TBD
1.5.6	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	Mayor and City Council	High	Ongoing	FEMA HMA Grant	TBD
1.6	<u>Landscape Ordinances.</u> Establish minimum standards for planti aesthetics.	ng areas for trees and ve	getation to reduce s	form water runoff a	and improve	urban
		ng areas for trees and veg Building Official	getation to reduce so	Mid-Range	Local Funds	urban TBD
.6.1	aesthetics. Review and revise as necessary, landscaping standards for parking lots that reduce the size of impervious surfaces and	Building Official	Low	Mid-Range	Local Funds	
1.6.1	Review and revise as necessary, landscaping standards for parking lots that reduce the size of impervious surfaces and encourage natural infiltration of rainwater.	Building Official	Low	Mid-Range	Local Funds	TBD
.6.1 1.7 .7.1	Review and revise as necessary, landscaping standards for parking lots that reduce the size of impervious surfaces and encourage natural infiltration of rainwater. Storm Water Management. Manage the impacts of land developed Promote the adoption/enforcement of storm water management	Building Official ment on storm water runo Local Floodplain	Low ff rates and to natur	Mid-Range al drainage system	Local Funds	TBD
1.6 1.6.1 1.7.1 1.7.2	Review and revise as necessary, landscaping standards for parking lots that reduce the size of impervious surfaces and encourage natural infiltration of rainwater. Storm Water Management. Manage the impacts of land developed Promote the adoption/enforcement of storm water management regulations that maintain pre-development runoff rates. Develop, adopt and implement subdivision regulations that require	Building Official ment on storm water runo Local Floodplain Manager Mayor and City Council	Low ff rates and to natur High High	Mid-Range al drainage system Ongoing Ongoing	Local Funds Local Funds Local Funds	

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more	Funding Source	Estimated Cost
1.9	Critical Facilities Assessments. Perform assessments of critica special needs housing, and others) to address building and site vulnerability to damage and disruption of operations during severable.	vulnerabilities to hazards,	identify damage co		•	
1.9.1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD
2	Goal for Property Protection. Protect structures and their occup					
2 2.1						
	Goal for Property Protection. Protect structures and their occup					TBD
2.1	Goal for Property Protection. Protect structures and their occup Building Relocation. Relocate buildings out of hazardous flood Pursue FEMA grant funds to relocate buildings out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or	areas to safeguard against Building Official	High	blish permanent o	ppen space. FEMA HMA	TBD
2.1 2.1.1	Goal for Property Protection. Protect structures and their occup Building Relocation. Relocate buildings out of hazardous flood Pursue FEMA grant funds to relocate buildings out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	areas to safeguard against Building Official	High	blish permanent o	ppen space. FEMA HMA	TBD

City of	Prichard Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
2.3.1	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD
2.3.2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD
2.4	Flood Proofing. Encourage flood proofing of buildings in hazard	l dous flood areas to safegu	lard against damage	S.		
2.4.1	Pursue FEMA grant funds for flood proofing pre-FIRM non- residential buildings, where feasible.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD
2.5	Building Retrofits. Retrofit vulnerable buildings to protect agains severe storms, and earthquakes.	l st natural hazards damage	es, including flooding	g, high winds, tori	nadoes, hurri	canes,
2.5.2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	Building Official	Medium	Short-Range	Local Funds	TBD
2.6	Hazard Insurance Awareness. Increase public awareness of floo sinkhole, and other damages typically not covered by standard p	•	•	uired for earthqu	ake, landslid	e,
2.6.1	Promote the purchase of insurance coverage by property owners and renters for flood damages in high-risk areas.	Local Floodplain Manager	High	Ongoing	Local Funds	TBD
	I .	I	l	l	1	

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more	F. F.	Estimated Cost
2.7	Critical Facilities Protection. Protect critical facilities from poten relocations of existing facilities located in high-risk zones or con	•			_	ofits or
2.7.1	Install lightning and/or surge protection on existing critical facilities.	Building Official	Low	Long-Range	TBD	TBD
2.7.2	Conduct ongoing tree trimming programs along power lines.	Building Official	Low	Long-Range	TBD	TBD
2.8	Backup Power. Ensure uninterrupted power supply to critical fac	cilities during emergency	v events.			
2.8.1	Pursue grant funding for the installation of backup power generators for critical facilities.	Building Official	High	Short-Range	FEMA HMA Grant	TBD
3	Goal for Public Education and Outreach. Educate and inform the life and property.	e public about the risks o	f hazards and the te	chniques available	to reduce th	reats to
3.1	Map Information. Increase public access to Flood Insurance Rat	te Map (FIRM) information	n.			
3.1.1	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	Building Official	Low	Mid-Range	Local Funds	TBD
	Outreach Projects. Conduct regular public events to inform the	public of hazards and mit	igation measures.			
3.2						

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
3.2.2	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Mayor and City Council	High	Short-Range	Local Funds	TBD
3.2.3	Hold at least 3 public meetings within 60 days of any presidentially declared disaster to solicit public input on event damages or plan revisions.	Mayor and City Council	High	Short-Range	Local Funds	TBD
3.3	<u>Library.</u> Use local library resources to educate the public on haz	zard risks and mitigation a	Ilternatives.			
3.3.1	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.	Mobile County EMA	Medium	Mid-Range	Local Funds	TBD
3.4	Education Programs. Use schools and other community educati measures.	on resources to conduct p	Drograms on topics	related to hazard r	isks and mit	igation
3.4.1	Distribute hazard mitigation brochures to students through area schools.	Mobile County EMA	Medium	Mid-Range	Local Funds	TBD
3.5	Community Hazard Mitigation Plan Distribution. Distribute the habitation businesses, and residents, using all available means of publications.		ected officials, inte	rested agencies and	d organizatio	ons,
3.5.1	Distribute the 2015 plan to local officials, stakeholders, and interested individuals through internet download.	Mobile County EMA	High	Short-Range	Local Funds	TBD

	Goal, Objectives and Mitigation Measures	Lead Responsibility		less than -5 years more	ırce	ost
#	Goal, Objectives and Mitigation Measures	for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
3.6.1	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Building Official	High	Short-Range	Local Funds	TBD
3.7	Mass Media Relations. Utilize all available mass media, such as, on-line social networking to increase public awareness and distr				video sharin	g, and
3.7.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Mobile County EMA	High	Short-Range	Local Funds	TBD
3.8	Weather Radios. Improve public access to weather alerts.					
3.8.1	Promote the use of weather radios in households and businesses.	Mayor and City Council	High	Short-Range	Local Funds	TBD
3.8.2	Require the installation of weather radios in all public buildings and places of public assembly.	Mayor and City Council	High	Short-Range	Local Funds	TBD
3.8.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	Mayor and City Council	High	Short-Range	Local Funds	TBD
4	Goal for Natural Resources Protection. Preserve and restore the development that balances the constraints of nature with the so-			•	tainable com	munity
4.1	Open Space Easements and Acquisitions. Acquire easements at plains, and wetlands to assure permanent protection of these na		of environmentally be	eneficial lands, su	ch as hillside	es, flood
4.1.1	Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.	Mayor and City Council	High	Short-Range	FEMA HMA Grant	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
4.2	River/Stream Corridor Restoration and Protection. Restore and	protect river and stream of		S.		
1.2.2	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	Mayor and City Council	High	Ongoing	Local Funds	TBD
4.4	Beach and Dune Protection/Renourishment. Protect beaches an programs.	d dunes from coastal and	man-made erosion	and implement rer	nourishment	
1.4.1	Restore and protect wetlands to enhance stormwater drainage.	Mayor and City Council	Low	Long-Range	Other	TBD
4.5	Water Resources Conservation Programs. Protect water quantit droughts and assure uninterrupted potable water supplies.	y and quality through wate	er conservation prog	grams to mitigate t	the effects of	i
.5.1	Enforce water use restrictions during periods of drought to conserve existing water supplies.	Mayor and City Council	Medium	Long-Range	Local Funds	TBD
	Goal for Structural Projects. Apply engineered structural modific damaging impacts of hazards, where feasible, cost effective, and	-		ucture to reduce th	ne potentially	1
5						
5.1	<u>Drainage System Maintenance.</u> Improve maintenance programs	for streams and drainage	ways.			

City of	Prichard Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
5.2.1	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Mayor and City Council	High	Mid-Range	FEMA HMA Grant	TBD
5.3	Community Shelters and Safe Rooms. Provide shelters from nat	ural hazards for the safety	of community resid	lents.		
5.3.1	Construct new community safe rooms in accessible locations and add safe rooms within new and existing public and institutional buildings, such as schools, colleges and universities, senior centers, community centers, hospitals, and government buildings.	Mayor and City Council	High	Long-Range	FEMA HMA Grant	TBD
	Establish a program for subsidizing individual and community safe room construction in appropriate locations and facilities.	Mayor and City Council	High	Long-Range	FEMA HMA Grant	TBD
533	Encourage the construction of safe rooms in new and existing homes and buildings.	Mayor and City Council	High	Long-Range	FEMA HMA Grant	TBD

C.10 Saraland Community Action Program

City of	Saraland Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1.1	Goal for Prevention. Manage the development of land and building the Comprehensive Plans and Smart Growth. Establish an active consustainable community development.				owth princip	oles of
1.1.1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.	Building Official	High	Short-Range	Local Funds	TBD
1.1.2	Integrate the findings and recommendations of this plan into comprehensive plan amendments for jurisdictions with active comprehensive planning programs.	Building Official	High	Short-Range	Local Funds	TBD
1.1.3	Prepare a five-year capital improvements plan (CIP) to include capital projects that implement the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	Mayor and Council	Medium	Mid-Range	Local Funds	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more	Funding Source	Estimated Cost
1.2	Geographic Information Systems (GIS). Maintain a comprehension facilities inventories.	ve database of hazards loo	cations, socio econ	omic data, infrast	ructure, and	critical
1.2.1	Maintain a centralized, countywide natural hazards and risk assessment database in GIS that is accessible to local planners and emergency management personnel, including such data as, flood zones, geohazards, major drainage structures, dams/levees, hurricane surge areas, tornado tracks, disaster events and their extents, and a comprehensive inventory of critical facilities within all jurisdictions.	Mobile County EMA	Medium	Mid-Range	FEMA HMA Grant	TBD
1.2.2	Integrate FEMA HAZUS-MH applications for hazard loss estimations within local GIS programs. Maintain up-to-date data within GIS to apply the full loss estimation capabilities of HAZUS.	Mobile County EMA	Medium	Mid-Range	FEMA HMA Grant	TBD
1.2.3	Mark depths of flooding and storm surge immediately after each event. Enter and maintain these historical records in GIS.	Mobile County EMA	High	Short-Range	Local Funds	TBD
1.3	Planning Studies. Conduct special studies, as needed, to identif	y hazard risks and mitiga	tion measures.			
1.3.1	Carry out detailed planning and engineering studies for sub- basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	City Engineer	Medium	Mid-Range	FEMA HMA Grant	TBD
1.3.2	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	Building Official	Low	Long-Range	TBD	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Fimeline Short-Range=less than 2 years Mid-Range=2-5 years - ong-Range=more than 5 years	Funding Source	Estimated Cost
1.3.3	Inventory and map existing fire hydrants throughout the county, and identify areas in need of new fire hydrants.	Fire Department	High	F ある医当年 On Going	Fire Dept	None
1.3.4	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	City Engineer	Medium	Long-Range	FEMA HMA Grant	TBD
1.4	Zoning. Establish effective zoning controls, where applicable, to development.	vulnerable land areas to	l discourage environ	l mentally incompat	ible land use	and
1.4.1	Require delineation of flood plain fringe, floodways, and wetlands on all plans submitted with a permit for development within a flood plain.	Mayor and Council	Low	Long-Range	Local Funds	TBD
1.4.2	Enact local ordinance that require community storm shelters within sizeable mobile home parks and subdivisions.	Mayor and Council	Medium	Mid-Range	Local Funds	TBD
1.5	Open Space Preservation. Minimize disturbances of natural land natural features such as open space for parks, conservation are			nrough regulations	that maintai	n critical
1.5.1	Examine regulatory options and feasibility of requiring open space areas for recreation, landscaping, and drainage control.	Mayor and Council	Medium	Mid-Range	Local Funds	TBD
1.6	Flood Plain Management Regulations. Effectively administer an	d enforce local floodplain	management regul	ations.		
1.0						

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2.5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
.6.2	Maintain a library of technical assistance and guidance materials to support the local floodplain manager.	Local Floodplain Manager	Medium	Short-Range	Local Funds	TBD
.6.3	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association of Flood Plain Managers and encourage active participation.	Local Floodplain Manager	Medium	Short-Range	Local Funds	TBD
.6.4	Participate in the "Turn Around Don't Drown" program by purchasing and installing signs in known flash flood bridge overpass locations.	National Weather Service	High	Short-Range	Other	TBD
1.7	Building and Technical Codes. Review local codes for effectiven damages.	l less of standards to protec	ct buildings and infra	I astructure from na	tural hazar	d
.7.1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	Building Official	High	Ongoing	Local Funds	TBD
.7.2	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of "hurricane clips."	Building Official	High	Short-Range	Local Funds	TBD
.7.3	Relocate existing utility lines underground, where feasible and cost effective, and require, through local subdivision and land development regulations, the placement of all new utility lines underground for large residential subdivisions and commercial developments.	Mayor and Council	Medium	Mid-Range	TBD	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1.7.4	Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters.	Fire Department	High	Short-Range	Local Funds	TBD
1.7.5	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	Building Official	High	Short-Range	Local Funds	TBD
1.7.6	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	Mayor and Council	High	Ongoing	FEMA HMA Grant	TBD
1.9	Storm Water Management. Manage the impacts of land develop	ment on storm water runof	f rates and to natura	Il drainage system	ıs.	
1.9.1	Develop, adopt and implement subdivision regulations that require proper stormwater infrastructure design and construction.	Mayor and Council	Medium	Mid-Range	Local Funds	TBD
1.10	Community Rating System Program (CRS). Increase participation	n of NFIP member commu	inities in the CRS Pr	ogram.		
1.10.1	Apply for/maintain membership in the CRS Program; continue to upgrade rating.	Local Floodplain Manager	Medium	Mid-Range	Local Funds	TBD
1.11	Critical Facilities Assessments. Perform assessments of critical special needs housing, and others) to address building and site vulnerability to damage and disruption of operations during sev	vulnerabilities to hazards	, identify damage co			
1.11.1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	Building Official	High	Short-Range	FEMA HMA Grant	TBD

oity O	Saraland Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more	Funding Source	Estimated Cost
2	Goal for Property Protection: Protect structures and their occup	ants and contents from the	e damaging effects	of natural hazard	s.	
2.1	Building Relocation. Relocate buildings out of hazardous flood	areas to safeguard against	damages and estab	lish permanent o	pen space.	
2.1.1	Pursue FEMA grant funds to relocate buildings out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	Building Official	High	On Going	FEMA HMA Grant	TBD
2.2	Acquisition. Acquire flood prone buildings and properties and	establish permanent open	space.			
2.2.1	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Building Official	High	On-Going	FEMA HMA Grant	TBD
2.2.2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD
2.3	Building Elevation. Elevate buildings in hazardous flood areas	to safeguard against dama	ges.			
2.3.1	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years		Estimated Cost			
2.3.2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD			
2.4	Flood Proofing. Encourage flood proofing of buildings in hazardous flood areas to safeguard against damages.								
2.4.1	Pursue FEMA grant funds for flood proofing pre-FIRM non-residential buildings, where feasible.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD			
2.5	<u>Building Retrofits</u> . Retrofit vulnerable buildings to protect again severe storms, and earthquakes.	st natural hazards damage	s, including flooding	g, high winds, torr	adoes, hurr	icanes,			
2.5.1	Pursue FEMA grant funds to retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	Building Official	High	Long-Range	FEMA HMA Grant	TBD			
2.6	Hazard Insurance Awareness. Increase public awareness of floo sinkhole, and other damages typically not covered by standard			l quired for earthqua	ake, landslid	e,			
2.6.1	Promote the purchase of insurance coverage by property owners and renters for flood damages in high-risk areas.	Local Floodplain Manager	High	Ongoing	Local Funds	TBD			
2.7	Critical Facilities Protection. Protect critical facilities from potential relocations of existing facilities located in high-risk zones or control of the c				_	ofits or			
2.7.1	Install lightning and/or surge protection on existing critical facilities.	Building Official	Low	Long-Range	TBD	TBD			

City of	Saraland Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
2.8	Backup Power. Ensure uninterrupted power supply to critical fac	cilities during emergency				
2.8.1	Pursue grant funding for the installation of backup power generators for critical facilities.	Building Official	High	Short-Range	FEMA HMA Grant	TBD
3	Goal for Public Education and Outreach. Educate and inform the life and property.	public about the risks of	hazards and the tec	hniques available	to reduce th	reats to
3.1	Map Information. Increase public access to Flood Insurance Rat	e Map (FIRM) information				
3.1.1	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	Building Official	Medium	Mid-Range	Local Funds	TBD
3.2	Outreach Projects. Conduct regular public events to inform the p	public of hazards and mitig	gation measures.			
3.2.1	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Mobile County EMA	High	Short-Range	Local Funds	TBD
3.2.2	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	Mobile County EMA	High	Short-Range	Local Funds	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
3.2.3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	Mayor and Council	High	Short-Range	Local Funds	TBD
3.2.4	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Mayor and Council	Medium	Mid-Range	Local Funds	TBD
3.2.5	Host hazard mitigation roundtables at the beginning of the fiscal year and the beginning of hurricane season to review and coordinate individual jurisdiction mitigation activities.	Mobile County EMA	Low	Long-Range	TBD	TBD
3.3	Library. Use local library resources to educate the public on haz	ard risks and mitigation a	alternatives.			
3.3.1	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.	Mobile County EMA	Medium	Mid-Range	Local Funds	TBD
3.4	Education Programs. Use schools and other community education measures.	on resources to conduct p	programs on topics	related to hazard r	isks and mi	tigation
3.4.1	Distribute hazard mitigation brochures to students through area schools.	Mayor and Council	High	Short-Range	FEMA HMA Grant	TBD

		jo		ss than years ore		
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
.5.1	Distribute the 2020 plan to local officials, stakeholders, and interested individuals through internet download.	Mobile County EMA	High	Short-Range	Local Funds	TBD
3.6	Mass Media Relations. Utilize all available mass media, such as, on-line social networking to increase public awareness and distr				video sharin	g, and
.6.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Mobile County EMA	High	Short-Range	Local Funds	TBD
.7	Weather Radios. Improve public access to weather alerts.					
.7.1	Promote the use of weather radios in households and businesses.	Mayor and Council	High	Short-Range	Local Funds	TBD
.79.2	Require the installation of weather radios in all public buildings and places of public assembly.	Mayor and Council	High	Short-Range	Local Funds	TBD
.7.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	Mayor and Council	High	Short-Range	FEMA HMA Grant	TBD
.8	<u>Disaster Warning.</u> Improve public warning systems.					
.9.1	Establish an ALERT flood warning system at strategic locations in the county, including at a minimum, sensors that provide real-time access to stream flow, stream stage, and precipitation data.	Mobile County EMA	High	Short-Range	FEMA HMA Grant	TBD
9.2	Ensure that the ALERT warning system links data into GIS with the ability to use measured and forecasted rainfall to predict potential flood levels and create real-time maps of flooded areas.	Mobile County EMA	High	Short-Range	FEMA HMA Grant	TBD

City of	Saraland Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
3.9.3	Evaluate the feasibility of a shared tri-county ALERT system covering Baldwin, Escambia, and Mobile counties.	Mobile County EMA	High	Short-Range	FEMA HMA Grant	TBD
3.9.4	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	Mobile County EMA	High	Short-Range	FEMA HMA Grant	TBD
3.9.5	Upgrade critical communications infrastructure.	Mobile County EMA	High	Short-Range	FEMA HMA Grant	TBD
4	Goal for Natural Resources Protection. Preserve and restore the development that balances the constraints of nature with the so				tainable com	munity
4.1	River/Stream Corridor Restoration and Protection. Restore and	protect river and stream c	orridors within areas	S.		
4.1.1	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Building Official	High	Ongoing	Other	TBD
4.1.2	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	Mayor and Council	High	Ongoing	Local Funds	TBD
4.2	Water Resources Conservation Programs. Protect water quantity droughts and assure uninterrupted potable water supplies.	and quality through water	er conservation prog	rams to mitigate t	the effects of	
4.2.1	Enforce water use restrictions during periods of drought to conserve existing water supplies.	Mayor and Council	Medium	Long-Range	Local Funds	TBD

City of	Saraland Community Action Program							
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Fun	Estimated Cost		
5	Goal for Structural Projects. Apply engineered structural modifications to natural systems and public infrastructure to reduce the potentially damaging impacts of hazards, where feasible, cost effective, and environmentally suitable.							
5.1	<u>Drainage System Maintenance.</u> Improve maintenance programs for streams and drainage ways.							
5.1.1	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Building Official	Medium	Short-Range	Local Funds	TBD		
5.2	Reservoirs and Drainage System Improvements. Control flooding effective and feasible, such as levees/floodwalls, diversions, cha		•			t		
5.2.1	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Mayor and Council	High	Mid-Range	FEMA HMA Grant	TBD		
5.3	Community Shelters and Safe Rooms. Provide shelters from nati	ural hazards for the safety	of community resid	lents.	1			
5.3.1	Construct new community safe rooms in accessible locations and add safe rooms within new and existing public and institutional buildings, such as schools, colleges and universities, senior centers, community centers, hospitals, and government buildings.	Building Official	High	Long-Range	FEMA HMA Grant	TBD		
5.3.2	Encourage the construction of safe rooms in new and existing homes and buildings.	Building Official	High	Short-Range	FEMA HMA Grant	TBD		

C.11 Satsuma Community Action Program

	City of Satsuma Community Action	Plan				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1	Goal for Prevention. Manage the development of land and buildi	ngs to minimize risks of lo	ess due to natural ha	zards.		
1.1	Comprehensive Plans and Smart Growth. Establish an active co sustainable community development.	mprehensive planning pro	gram that is consist	tent with Smart Gr	owth princip	oles of
1.1.1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.	Building Official	Low	Long- Range/Ongoing	Local Funds	TBD
1.1.2	Integrate the findings and recommendations of this plan into comprehensive plan amendments for jurisdictions with active comprehensive planning programs.	Building Official	Low	Long- Range/Ongoing	Local Funds	TBD
1.1.3	Prepare a five-year capital improvements plan (CIP) to include capital projects that implement the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	Building Official	Medium	Mid-Range	Local Funds	TBD

	City of Satsuma Community Action	Plan				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Func	Estimated Cost
1.2	Geographic Information Systems (GIS). Maintain a comprehensi facilities inventories.	ve database of hazards loo	cations, socio econo	omic data, infrastro	ucture, and o	critical
1.2.1	Maintain a centralized, countywide natural hazards and risk assessment database in GIS that is accessible to local planners and emergency management personnel, including such data as, flood zones, geohazards, major drainage structures, dams/levees, hurricane surge areas, tornado tracks, disaster events and their extents, and a comprehensive inventory of critical facilities within all jurisdictions.	Mobile County EMA	Low	Mid-Range	НМА	TBD
1.3	Planning Studies. Conduct special studies, as needed, to identi	fy hazard risks and mitigat	tion measures.			
1.3.1	Carry out detailed planning and engineering studies for sub- basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Local Floodplain Manager	Medium	Long-Range	FEMA HMA Grant	TBD
1.3.2	Identify existing culturally or socially significant structures and critical facilities within Mobile County that have the most potential for losses from natural hazard events and identify needed structural upgrades.	Building Official	Low	Long-Range	TBD	TBD

	City of Satsuma Community Action	Plan				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1.3.3	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	Building Official	Low	Long-Range	TBD	TBD
1.3.4	Inventory and map existing fire hydrants throughout the county, and identify areas in need of new fire hydrants.	Building Official	Low	Long-Range	TBD	TBD
1.3.5	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	City Engineer	Medium	Long-Range	FEMA HMA Grant	TBD
1.4	Zoning. Establish effective zoning controls, where applicable, to development.	vulnerable land areas to o	l discourage environn	l nentally incompat	lible land use	and
1.4.2	Evaluate additional land use restrictions within designated flood zones, such as prohibition of storage of buoyant materials, storage of hazardous materials, restrictive development of flood ways, among others.	Mayor and Council	Medium	Short-Range	Local Funds	TBD
1.4.3	Require delineation of flood plain fringe, floodways, and wetlands on all plans submitted with a permit for development within a flood plain.	Mayor and Council	Medium	On-Going	Local Funds	TBD

	City of Satsuma Community Action	Plan						
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost		
1.5	Open Space Proceguation, Minimize dicturbances of natural land features and increased storm water runoff through regulations that maintain critical							
1.5.1	Examine regulatory options and feasibility of requiring open space areas for recreation, landscaping, and drainage control.	Mayor and Council	Medium	Mid-Range	Local Funds	TBD		
1.6	Flood Plain Management Regulations. Effectively administer and enforce local floodplain management regulations.							
1.6.1	Train local flood plain managers through programs offered by the State Flood Plain Coordinator and FEMA's training center in Emmitsburg, Maryland.	Local Floodplain Manager	High	Long- Range/Ongoing	Local Funds	TBD		
1.6.2	Maintain a library of technical assistance and guidance materials to support the local floodplain manager.	Local Floodplain Manager	Medium	Ongoing	Local Funds	TBD		
1.6.3	Promote the adoption of uniform flood hazard prevention ordinance among all NFIP communities. The ordinance standards should encourage flood plain management that maintains the natural and beneficial functions of flood plains by maximizing the credits that could be obtained for "Higher Regulatory Standards" under the Community Rating System (CRS) Program.	Local Floodplain Manager	High	Mid-Range	FEMA HMA Grant	TBD		
1.6.4	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association of Flood Plain Managers and encourage active participation.	Local Floodplain Manager/	High	Short-Range	Local Funds	TBD		

	City of Satsuma Community Action	Plan				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1.6.5	Participate in the "Turn Around Don't Drown" program by purchasing and installing signs in known flash flood bridge overpass locations.	Local Floodplain Manager	Medium	Short-Range	Other	TBD
1.7	Building and Technical Codes. Review local codes for effectiven damages.	less of standards to protec	l ct buildings and infra	l astructure from na	l atural hazar	d
1.7.1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	Building Official	High	Ongoing	Local Funds	TBD
1.7.2	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of "hurricane clips."	Building Official	High	Short-Range	Local Funds	TBD
1.7.4	Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters.	Building Official	Low	Mid-Range	Local Funds	TBD
1.7.5	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	Building Official	High	Short-Range	Local Funds	TBD
1.7.6	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	Mayor and Council	High	Ongoing	FEMA HMA Grant	TBD
1.8	Storm Water Management. Manage the impacts of land developr	nent on storm water runof	f rates and to natura	l drainage system	is.	

	City of Satsuma Community Action	Plan				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1.8.1	Promote the adoption/enforcement of storm water management regulations that maintain pre-development runoff rates.	Local Floodplain Manager	High	Ongoing	Local Funds	TBD
1.8.2	Develop, adopt and implement subdivision regulations that require proper stormwater infrastructure design and construction.	Mayor and Council	High	Ongoing	Local Funds	TBD
1.9	Dam Safety Management. Establish a comprehensive dam safet	y program.				
1.9.1	Support legislation to establish a State dam safety program.	Mayor and Council	Low	Mid-Range	Local Funds	TBD
1.10	Community Rating System Program (CRS). Increase participation	n of NFIP member commu	inities in the CRS Pr	ogram.		
1.10.1	Apply for/maintain membership in the CRS Program; continue to upgrade rating.	Local Floodplain Manager	High	Short-Range	Local Funds	TBD
1.11	Critical Facilities Assessments. Perform assessments of critical special needs housing, and others) to address building and site vulnerability to damage and disruption of operations during several services.	vulnerabilities to hazards	identify damage co			
1.11.1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD
1.11.2	Conduct wildfire vulnerability assessments, including the vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive inventory to identify high and moderate wildfire risk areas.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD

	City of Satsuma Community Action	Plan				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years than 5 years	Funding Source	Estimated Cost
2	Goal for Property Protection. Protect structures and their occup					
2.1	Building Relocation. Relocate buildings out of hazardous flood	areas to safeguard against	damages and estab	lish permanent o	pen space.	
2.1.1	Pursue FEMA grant funds to relocate buildings out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	Building Official	High	Short-Range	FEMA HMA Grant	TBD
2.2	Acquisition. Acquire flood prone buildings and properties and	establish permanent open	space.			
2.2.1	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	Building Official	High	Short-Range	FEMA HMA Grant	TBD
2.2.2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Building Official	High	Short-Range	FEMA HMA Grant	TBD
2.3	Building Elevation. Elevate buildings in hazardous flood areas t	o safeguard against dama	ges.			
2.3.1	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD

	City of Satsuma Community Action	Plan				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Vid-Range=2-5 years -ong-Range=more than 5 years	Funding Source	Estimated Cost
2.3.2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD
2.4	Flood Proofing. Encourage flood proofing of buildings in hazard	dous flood areas to safegu	ard against damage	S.		
2.4.1	Pursue FEMA grant funds for flood proofing pre-FIRM non- residential buildings, where feasible.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD
2.5	Flood Control Measures. Small flood control measures built to	reduce/prevent flood dama	ige.			
2.5.1	Examine use of minor structural projects (small berm or floodwalls) in areas that cannot be mitigated through non-structural mitigation techniques.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD
2.6	Building Retrofits. Retrofit vulnerable buildings to protect agains severe storms, and earthquakes.	st natural hazards damage	s, including flooding	g, high winds, tori	nadoes, hurr	icanes,
2.6.1	Pursue FEMA grant funds to retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD
2.6.2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	Building Official	Medium	Short-Range	Local Funds	TBD

	City of Satsuma Community Action	Plan				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
2.7	Hazard Insurance Awareness. Increase public awareness of floo	d insurance and special ri				
2.1	sinkhole, and other damages typically not covered by standard Promote the purchase of insurance coverage by property owners	property protection policie Local Floodplain	T			
2.7.1	and renters for flood damages in high-risk areas.	Manager	High	Ongoing	Local Funds	TBD
2.8	<u>Critical Facilities Protection</u> . Protect critical facilities from poten relocations of existing facilities located in high-risk zones or co	•			_	ofits or
2.8.1	Install lightning and/or surge protection on existing critical facilities.	Building Official	Low	Long-Range	TBD	TBD
2.9	Backup Power. Ensure uninterrupted power supply to critical fa	cilities during emergency	events.			
2.9.1	Pursue grant funding for the installation of backup power generators for critical facilities.	Building Official	High	Short-Range	FEMA HMA Grant	TBD
3	Goal for Public Education and Outreach. Educate and inform the life and property.	e public about the risks of	hazards and the tecl	nniques available	to reduce th	reats to
3.1	Map Information. Increase public access to Flood Insurance Ra	te Map (FIRM) information				
	Publicize the availability of FIRM information to real estate agents,					
3.1.1	builders, developers, and homeowners through local trade publications and newspaper announcements.	Building Official	Low	Mid-Range	Local Funds	TBD
3.2	Outreach Projects. Conduct regular public events to inform the	public of hazards and miti	gation measures.			

	City of Satsuma Community Action	Plan				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
3.2.1	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Mobile County EMA	High	Ongoing	Local Funds	TBD
3.2.2	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	Mobile County EMA	High	Ongoing	Local Funds	TBD
3.2.3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	Mayor and Council	Low	Long-Range	Local Funds	TBD
3.2.4	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Mayor and Council	High	Short-Range	Local Funds	TBD
3.3	<u>Library.</u> Use local library resources to educate the public on haz	ard risks and mitigation a	Iternatives.			
3.3.1	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.	Mobile County EMA	Medium	Mid-Range	Local Funds	TBD
3.4	Education Programs. Use schools and other community education measures.	on resources to conduct p	orograms on topics	related to hazard ri	isks and mit	igation

	City of Satsuma Community Action	Plan				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
3.4.1	Distribute hazard mitigation brochures to students through area schools.	Mobile County EMA	Medium	Mid-Range	Local Funds	TBD
3.5	Community Hazard Mitigation Plan Distribution. Distribute the habusinesses, and residents, using all available means of publication		ected officials, intere	ested agencies and	d organizatio	ons,
3.5.1	Distribute the 2015 plan to local officials, stakeholders, and interested individuals through internet download.	Mobile County EMA	High	Short-Range	Local Funds	TBD
3.6	Technical Assistance. Make qualified local government staff ava	ilable to advise property o	wners on various ha	azard risks and mi	tigation alte	rnatives.
3.6.1	Provide technical assistance to homeowners, builders, and developers on flood protection alternatives.	Building Official	High	Short-Range	Local Funds	TBD
3.7	Mass Media Relations. Utilize all available mass media, such as, on-line social networking to increase public awareness and distr				video sharin	g, and
3.7.1	Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	Mobile County EMA	Medium	Mid-Range	Local Funds	TBD
3.8	Weather Radios. Improve public access to weather alerts.	1				
3.8.1	Promote the use of weather radios in households and businesses.	Mayor and Council	High	Short-Range	Local Funds	TBD
3.8.3	Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	Mayor and Council	High	Short-Range	Local Funds	TBD
3.9	Disaster Warning. Improve public warning systems.					

	City of Satsuma Community Action	Plan				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Fune	Estimated Cost
3.9.4	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	Mobile County EMA	High		FEMA HMA Grant	TBD
3.9.5	Upgrade critical communications infrastructure.	Mobile County EMA	High	Short-Range	FEMA HMA Grant	TBD
4	Goal for Natural Resources Protection. Preserve and restore the development that balances the constraints of nature with the soc				tainable com	imunity
4.1	Open Space Easements and Acquisitions. Acquire easements ar plains, and wetlands to assure permanent protection of these na		of environmentally be	eneficial lands, su	ch as hillsid	es, flood
4.1.1	Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.	Mayor and Council	High	Short-Range	FEMA HMA Grant	TBD
4.2	River/Stream Corridor Restoration and Protection. Restore and	protect river and stream o	corridors within areas	S.		
4.2.1	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Mayor and Council	High	Ongoing	Other	TBD
4.2.2	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	Mayor and Council	High	Ongoing	Local Funds	TBD
4.3	<u>Urban Forestry Programs.</u> Maintain a healthy forest that can help within urban areas.	o mitigate the damaging in	npacts of flooding, e	rosion, landslides	s, and wild fi	res

	City of Satsuma Community Action	Plan				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
4.3.1	Utilize technical assistance available from the Alabama Cooperative Extension System with Best Management Practices (BMP).	Mayor and Council	Medium	Mid-Range	Local Funds	TBD
4.4	Water Resources Conservation Programs. Protect water quantity droughts and assure uninterrupted potable water supplies.	y and quality through wate	er conservation prog	rams to mitigate t	he effects of	
4.4.1	Enforce water use restrictions during periods of drought to conserve existing water supplies.	Mayor and Council	Medium	Long-Range	Local Funds	TBD
5	Goal for Structural Projects. Apply engineered structural modific damaging impacts of hazards, where feasible, cost effective, and			cture to reduce th	e potentially	
5.1	<u>Drainage System Maintenance.</u> Improve maintenance programs	for streams and drainage	ways.			
5.1.1	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Building Official/Mobile County EMA	Medium	Short-Range	Local Funds	TBD
5.2	Reservoirs and Drainage System Improvements. Control floodin effective and feasible, such as levees/floodwalls, diversions, cha	-	· ·			t
5.2.1	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	Building Official/Mayor and Council	High	Mid-Range	FEMA HMA Grant	TBD
5.3	Community Shelters and Safe Rooms. Provide shelters from nat	ural hazards for the safety	of community resid	ents.		

	City of Satsuma Community Action Plan					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
5.3.1	Construct new community safe rooms in accessible locations and add safe rooms within new and existing public and institutional buildings, such as schools, colleges and universities, senior centers, community centers, hospitals, and government buildings.	Mayor and Council	High	Long-Range	FEMA HMA Grant	TBD
5.3.2	Establish a program for subsidizing individual and community safe room construction in appropriate locations and facilities.	Mayor and Council	High	Long-Range	FEMA HMA Grant	TBD
5.3.3	Encourage the construction of safe rooms in new and existing homes and buildings.	Mayor and Council	High	Long-Range	FEMA HMA Grant	TBD

C.12 Semmes Community Action Program

City of	Semmes Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Fimeline Short-Range=less than 2 years Mid-Range=2-5 years -ong-Range=more than 5 years	Funding Source	Estimated Cost
1	Goal for Prevention. Manage the development of land and buildi Comprehensive Plans and Smart Growth. Establish an active co		ess due to natural ha	zards.	owth princin	
1.1	sustainable community development.	imprononorvo piaininig pro	gram that is consist	one with omare or	owen printer	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1.1.1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.	Building Official	Low	Long- Range/Ongoing	Local Funds	TBD
1.1.3	Prepare a five-year capital improvements plan (CIP) to include capital projects that implement the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	Building Official	Medium	Mid-Range	Local Funds	TBD
1.2	Geographic Information Systems (GIS). Maintain a comprehensi facilities inventories.	ve database of hazards loo	L Cations, socio econo	I omic data, infrastro	ucture, and o	critical
1.2.3	Mark depths of flooding and storm surge immediately after each event. Enter and maintain these historical records in GIS.	City of Mobile GIS Dept.	Medium	Long- Range/Ongoing	Local Funds	TBD

City of	Semmes Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1.3	Planning Studies. Conduct special studies, as needed, to identi	fy hazard risks and mitiga				
1.3.1	Carry out detailed planning and engineering studies for sub- basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	Local Floodplain Manager	Medium	Long-Range	FEMA HMA Grant	TBD
1.3.2	Identify existing culturally or socially significant structures and critical facilities within Mobile County that have the most potential for losses from natural hazard events and identify needed structural upgrades.	Building Official	Low	Long-Range	TBD	TBD
1.3.3	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	Building Official	Low	Long-Range	TBD	TBD
1.3.4	Inventory and map existing fire hydrants throughout the county, and identify areas in need of new fire hydrants.	Building Official	Low	Long-Range	TBD	TBD
1.3.5	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	City Engineer	Medium	Long-Range	FEMA HMA Grant	TBD
1.4	Zoning. Establish effective zoning controls, where applicable, to development.	vulnerable land areas to	discourage environn	nentally incompat	ible land use	and
1.4.1	Consider large lot size restrictions on flood prone areas designated on Flood Insurance Rate Maps.	Mayor and City Council	Medium	Short-Range	Local Funds	TBD
					1	

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1.4.2	Evaluate additional land use restrictions within designated flood zones, such as prohibition of storage of buoyant materials, storage of hazardous materials, restrictive development of flood ways, among others.	Mayor and City Council	Medium	Short-Range	Local Funds	TBD
1.4.3	Require delineation of flood plain fringe, floodways, and wetlands on all plans submitted with a permit for development within a flood plain.	Mayor and City Council	Medium	Mid-Range	Local Funds	TBD
1.4.4	Enact local ordinance that require community storm shelters within sizeable mobile home parks and subdivisions.	Mayor and City Council	Medium	Mid-Range	Local Funds	TBD
1.5	Open Space Preservation. Minimize disturbances of natural land natural features such as open space for parks, conservation are			rough regulations	that maintai	n critical
1.5.1	Examine regulatory options and feasibility of requiring open space areas for recreation, landscaping, and drainage control.	Mayor and City Council	Medium	Mid-Range	Local Funds	TBD
1.6	Flood Plain Management Regulations. Effectively administer an	d enforce local floodplain	management regula	tions.		
1.6.1	Participate in the "Turn Around Don't Drown" program by purchasing and installing signs in known flash flood bridge overpass locations.	Local Floodplain Manager	Medium	Short-Range	Other	TBD
1.6.2	Improve flood risk assessment by documenting high water marks post event, verification of FEMA's repetitive loss inventory and revising and updating regulatory floodplain maps.	Local Floodplain Manager	Medium	Short-Range	TBD	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years		Estimated Cost
1.7	Building and Technical Codes. Review local codes for effectiven damages.	ess of standards to prote	ct buildings and inf	rastructure from na	atural hazar	d
.7.1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	Building Official	High	Ongoing	Local Funds	TBD
.7.2	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of "hurricane clips."	Building Official	High	Ongoing	Local Funds	TBD
.7.3	Relocate existing utility lines underground, where feasible and cost effective, and require, through local subdivision and land development regulations, the placement of all new utility lines underground for large residential subdivisions and commercial developments.	Mayor and City Council	High	Mid-Range	TBD	TBD
7.4	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	Building Official	High	Short-Range	Local Funds	TBD
7.5	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	Mayor and City Council	High	Ongoing	FEMA HMA Grant	TBD

ity o	f Semmes Community Action Program						
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost	
1.8.1	Review and revise as necessary, landscaping standards for parking lots that reduce the size of impervious surfaces and encourage natural infiltration of rainwater.	Mayor and City Council	Low	Mid-Range	Local Funds	TBD	
1.9	9 <u>Storm Water Management.</u> Manage the impacts of land development on storm water runoff rates and to natural drainage systems.						
1.9.1	Promote the adoption/enforcement of storm water management regulations that maintain pre-development runoff rates.	Mayor and City Council	Low	Mid-Range	Local Funds	TBD	
1.9.2	Develop, adopt and implement subdivision regulations that require proper stormwater infrastructure design and construction.	Mayor and City Council	Low	Mid-Range	Local Funds	TBD	
1.10	Community Rating System Program (CRS). Increase participation	on of NFIP member commu	inities in the CRS Pr	ogram.			
1.10.1	Apply for/maintain membership in the CRS Program; continue to upgrade rating.	Local Floodplain Manager	High	Short-Range	Local Funds	TBD	
1.11	<u>Critical Facilities Assessments.</u> Perform assessments of critical special needs housing, and others) to address building and site vulnerability to damage and disruption of operations during sev	vulnerabilities to hazards	, identify damage co				
1.11.1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	Building Official	Low	Long-Range	Local Funds	TBD	

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years	man 5 years Funding Source	Estimated Cost
1.11.2	Conduct wildfire vulnerability assessments, including the vulnerability of critical facilities and number of residential properties in these risk areas, and prepare a comprehensive inventory to identify high and moderate wildfire risk areas.	Building Official	Medium	Mid-Range	FEMA HMA Grant	TBD
2	Goal for Property Protection. Protect structures and their occup	ants and contents from th	e damaging effect	s of natural hazard	s.	
2.1	Building Relocation. Relocate buildings out of hazardous flood	areas to safeguard agains	t damages and es	tablish permanent o	open space.	
	Building Relocation. Relocate buildings out of hazardous flood Pursue FEMA grant funds to relocate buildings out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	areas to safeguard agains	t damages and es	Short-Range	FEMA HMA Grant	TBD
2.1 2.1.1	Pursue FEMA grant funds to relocate buildings out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or	Building Official	High		FEMA HMA	TBD
2.1.1	Pursue FEMA grant funds to relocate buildings out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	Building Official	High		FEMA HMA	TBD

City of	Semmes Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
2.3.1	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD
2.3.2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD
2.4	Flood Proofing. Encourage flood proofing of buildings in hazard	lous flood areas to safegu	ard against damage	S.		
2.4.1	Pursue FEMA grant funds for flood proofing pre-FIRM non- residential buildings, where feasible.	Building Official	Medium	Short-Range	FEMA HMA Grant	TBD
2.5	Flood Control Measures. Small flood control measures built to r	reduce/prevent flood dama	ge.			
2.5.1	Examine use of minor structural projects (small berm or floodwalls) in areas that cannot be mitigated through non-structural mitigation techniques.	Building Official	Low	Long-Range	FEMA HMA Grant	TBD
2.6	Building Retrofits. Retrofit vulnerable buildings to protect agains severe storms, and earthquakes.	st natural hazards damage	s, including flooding	g, high winds, tori	nadoes, hurri	canes,
2.6.1	Retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	Building Official	Medium	Short-Range	Local Funds	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
2.6.2	Provide technical advisory assistance to building owners on available building retrofits to protect against natural hazards damages.	Building Official	Medium	Short-Range	Local Funds	TBD
2.7	Hazard Insurance Awareness. Increase public awareness of floo sinkhole, and other damages typically not covered by standard			quired for earthqu	ake, landslic	le,
2.7.1	Promote the purchase of insurance coverage by property owners and renters for flood damages in high-risk areas.	Local Floodplain Manager	High	Ongoing	Local Funds	TBD
2.8	Critical Facilities Protection. Protect critical facilities from poter relocations of existing facilities located in high-risk zones or co				_	ofits or
2.8.1	Install lightning and/or surge protection on existing critical facilities.	Building Official	Medium	Short-Range	TBD	TBD
2.9	Backup Power: Assure uninterrupted power supplies during em	nergency events.				
2.9.1	Pursue grant funding for the installation of backup power generators for critical facilities.	Building Official	High	Short-Range	FEMA HMA Grant	TBD
3	Goal for Public Education and Outreach. Educate and inform the life and property.	e public about the risks of	hazards and the tec	l hniques available	to reduce th	reats to
3.1	Outreach Projects. Conduct regular public events to inform the	public of hazards and miti	gation measures.			

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
3.1.1	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	Mobile County EMA	High	Ongoing	Local Funds	TBD
3.1.2	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	Mobile County EMA	High	Ongoing	Local Funds	TBD
3.1.3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	Mayor and City Council	Medium	Long-Range	Local Funds	TBD
3.1.4	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	Mayor and City Council	Low	Long-Range	Local Funds	TBD
3.2	<u>Library.</u> Use local library resources to educate the public on haz	ard risks and mitigation a	Ilternatives.			
3.2.1	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.	Mobile County EMA	Medium	Mid-Range	Local Funds	TBD
3.3	Community Hazard Mitigation Plan Distribution. Distribute the habusinesses, and residents, using all available means of publications.	•	ected officials, intere	ested agencies and	d organizatio	ons,
3.3.1	Distribute the 2015 plan to local officials, stakeholders, and interested individuals through internet download.	Mobile County EMA	High	Short-Range	Local Funds	TBD
		l	l	1		

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Fimeline Short-Range=less than 2 years Mid-Range=2-5 years -ong-Range=more than 5 years	Funding Source	Estimated Cost
3.4	Weather Radios. Improve public access to weather alerts.			,, v, v, c = +		
3.4.1	Promote the use of weather radios in households and businesses.	Mayor and City Council	High	Short-Range	Local Funds	TBD
3.4.2	Require the installation of weather radios in all public buildings and places of public assembly.	Mayor and City Council	Low	Long-Range	Local Funds	TBD
3.4.3	Distribute weather radios and emergency response instructions to municipal residents.	Mayor and City Council	Low	Long-Range	Local Funds	TBD
3.5	Disaster Warning. Improve public warning systems.					
3.5.1	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	Mobile County EMA	High	Short-Range	FEMA HMA Grant	TBD
3.5.2	Upgrade critical communications infrastructure.	Mobile County EMA	High	Short-Range	FEMA HMA Grant	TBD
4	Goal for Natural Resources Protection. Preserve and restore the development that balances the constraints of nature with the so-			•	tainable com	munity
4.1	Open Space Easements and Acquisitions. Acquire easements at plains, and wetlands to assure permanent protection of these na	•	of environmentally b	eneficial lands, su	ich as hillside	es, flood
4.1.1	Increase open space acquisitions through the FEMA HMA Grant Programs and other flood plain acquisition efforts.	Mayor and City Council	High	Short-Range	FEMA HMA Grant	TBD

#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
4.2	River/Stream Corridor Restoration and Protection. Restore and	protect river and stream of	corridors within area	S.		
1.2.1	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	Mayor and City Council	High	Ongoing	Other	TBD
1.2.2	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	Mayor and City Council	High	Ongoing	Local Funds	TBD
4.3	Urban Forestry Programs. Maintain a healthy forest that can help within urban areas. Increase overall green spaces in cities by planting hurricane resistant		mpacts of flooding, e	erosion, landslides Mid-Range	s, and wild fi	TBD
5	trees with site and location taken into consideration. Goal for Structural Projects. Apply engineered structural modified damaging impacts of hazards, where feasible, cost effective, and	cations to natural systems	and public infrastru		Funds	
5.1	<u>Drainage System Maintenance.</u> Improve maintenance programs	for streams and drainage	ways.			_
5.1.1	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Building Official/Mobile County EMA	Medium	Short-Range	Local Funds	TBD
5.2	Reservoirs and Drainage System Improvements. Control floodin effective and feasible, such as levees/floodwalls, diversions, cha	_	•			st
		Building Official/Mayor			FEMA HMA	TBD

City of	Semmes Community Action Program					
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years -ong-Range=more than 5 years	Funding Source	Estimated Cost
5.3.1	Construct new community safe rooms in accessible locations and add safe rooms within new and existing public and institutional buildings, such as schools, colleges and universities, senior centers, community centers, hospitals, and government buildings.	Mayor and City Council	High	Long-Range	FEMA HMA Grant	TBD
5.3.2	Establish a program for subsidizing individual and community safe room construction in appropriate locations and facilities.	Mayor and City Council	High	Long-Range	FEMA HMA Grant	TBD
5.3.3	Encourage the construction of safe rooms in new and existing homes and buildings.	Mayor and City Council	High	Long-Range	FEMA HMA Grant	TBD

C.13 Mobile County School Board Community Action Program

	Mobile County School Board Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost			
1	Goal for Prevention. Manage the development of land and building	ngs to minimize risks of lo	ess due to natural ha	zards.					
1.1	Comprehensive Plans and Smart Growth. Establish an active consustainable community development.	mprehensive planning pro	ogram that is consist	ent with Smart Gr	owth princip	oles of			
1.1.1	Maintain up-to-date comprehensive plans for all jurisdictions. Each plan should address natural hazards exposure and include long-term disaster resistance measures. The vulnerability and environmental suitability of lands for future development should be clearly addressed. Local plans should assess the vulnerability of designated hazard areas and encourage open space planning to create amenities for recreation and conservation of fragile resources.	Executive Manager of Facilities	High	On-Going	Local Funds	TBD			
1.1.2	Integrate the findings and recommendations of this plan into comprehensive plan amendments for jurisdictions with active comprehensive planning programs.	Executive Manager of Facilities and Risk Management	High	Mid-Range	Local Funds	TBD			
1.1.3	Prepare a five-year capital improvements plan (CIP) to include capital projects that implement the natural hazards element of the community's comprehensive plan or projects identified in the Community Mitigation Action Program of this multi-hazard mitigation plan.	Executive Manager of Facilities	High	Long-Range	Local Funds	TBD			

	Mobile County School Board Community Ac	tion Program				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more	Funding Source	Estimated Cost
1.2	Geographic Information Systems (GIS). Maintain a comprehension facilities inventories.	ve database of hazards lo	cations, socio econo			
1.2.1	Maintain a centralized, countywide natural hazards and risk assessment database in GIS that is accessible to local planners and emergency management personnel, including such data as, flood zones, geohazards, major drainage structures, dams/levees, hurricane surge areas, tornado tracks, disaster events and their extents, and a comprehensive inventory of critical facilities within all jurisdictions.	Executive Manager of Facilities and Risk Management	Medium	Mid-Range	FEMA HMA Grant	TBD
1.2.2	Integrate FEMA HAZUS-MH applications for hazard loss estimations within local GIS programs. Maintain up-to-date data within GIS to apply the full loss estimation capabilities of HAZUS.	Risk Management.	Medium	Mid-Range	FEMA HMA Grant	TBD
1.2.3	Mark depths of flooding and storm surge immediately after each event. Enter and maintain these historical records in GIS.	Executive Manager of Facilities	High	Short-Range	Local Funds	TBD
1.3	Planning Studies. Conduct special studies, as needed, to identif	fy hazard risks and mitiga	tion measures.			
1.3.1	Carry out detailed planning and engineering studies for sub- basins in critical flood hazard areas to determine watershed-wide solutions to flooding.	N/A	N/A	N/A	N/A	N/A
1.3.3	Evaluate elevation and culvert sizing of existing roadways in flash flood-prone areas to ensure compliance with current standards for design year floods, and develop a program for construction upgrades as appropriate.	N/A	N/A	N/A	N/A	N/A

	Mobile County School Board Community Ac	tion Program				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
1.3.4	Inventory and map existing fire hydrants throughout the county, and identify areas in need of new fire hydrants.	N/A	N/A	N/A	N/A	N/A
1.3.5	Identify problem drainage areas, conduct engineering studies, evaluate feasibility, and construct drainage improvements to reduce or eliminate localized flooding.	N/A	N/A	N/A	NA	N/A
1.4	Zoning. Establish effective zoning controls, where applicable, to development.	vulnerable land areas to o	discourage environn	nentally incompati	ble land use	e and
1.4.3	Require delineation of flood plain fringe, floodways, and wetlands on all plans submitted with a permit for development within a flood plain.	Executive Manager of Facilities	Low	Long-Range	Local Funds	TBD
1.4.4	Enact local ordinance that require community storm shelters within sizeable mobile home parks and subdivisions.	N/A	N/A	N/A	N/A	N/A
1.5	Open Space Preservation. Minimize disturbances of natural land natural features such as open space for parks, conservation area			rough regulations	that mainta	in critical
1.5.1	Examine regulatory options and feasibility of requiring open space areas for recreation, landscaping, and drainage control.	Executive Manager of Facilities	Medium	Long-Range	Local Funds	TBD
1.6	Flood Plain Management Regulations. Effectively administer and	d enforce local floodplain	management regula	itions.		
1.6.1	Train local flood plain managers through programs offered by the State Flood Plain Coordinator and FEMA's training center in Emmitsburg, Maryland.	N/A	N/A	N/A	N/A	N/A

	Mobile County School Board Community Action Program								
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost			
1.6.2	Maintain a library of technical assistance and guidance materials to support the local floodplain manager.	Executive Manager of Facilities and Risk Management	Medium	Long-Range	Local Funds	TBD			
1.6.4	Maintain membership for locally designated flood plain managers in the Association of State Flood Plain Managers and the Alabama Association of Flood Plain Managers and encourage active participation.	N/A	N/A	N/A	N/A	N/A			
1.6.5	Participate in the "Turn Around Don't Drown" program by purchasing and installing signs in known flash flood bridge overpass locations.	N/A	N/A	N/A	N/A	N/A			
1.6.6	Improve flood risk assessment by documenting high water marks post event, verifying FEMA's repetitive loss inventory and revising and updating regulatory floodplain maps.	Executive Manager of Facilities	Low	Long-Range	Local Funds	TBD			
1.7	Building and Technical Codes. Review local codes for effectiven damages.	ess of standards to protect	ct buildings and infra	astructure from na	atural hazard				
1.7.1	Promote good construction practices and proper code enforcement to mitigate structural failures during natural hazard events.	Executive Manager of Facilities	High	Ongoing	Local Funds	TBD			
1.7.2	Evaluate and revise as appropriate, building codes for roof construction to maximize protection against wind damage from hurricanes, tornadoes, and windstorms; encourage installation of "hurricane clips."	Executive Manager of Facilities	High	Short-Range	Local Funds	TBD			

	Mobile County School Board Community Ac	tion Program				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more	Funding Source	Estimated Cost
1.7.3	Relocate existing utility lines underground, where feasible and cost effective, and require, through local subdivision and land development regulations, the placement of all new utility lines underground for large residential subdivisions and commercial developments.	Executive Manager of Facilities	Medium	Long-Range	TBD	TBD
1.7.4	Ensure fire safety ordinances properly regulate open burning, the use of liquid fuel and electric space heaters.	N/A	N/A	N/A	N/A	N/A
1.7.5	Establish and enforce minimum property maintenance standards that reduce or eliminate unsafe structures.	Executive Manager of Facilities	Medium	Long-Range	Local Funds	TBD
1.7.6	Require the construction of safe rooms within new public buildings, such as new schools, libraries, community centers, and other public buildings where feasible.	Executive Manager of Facilities	High	Ongoing	FEMA HMA Grant	TBD
1.8	Storm Water Management. Manage the impacts of land developn	nent on storm water runof	f rates and to natura	Il drainage systen	ns.	
1.8.2	Develop, adopt and implement subdivision regulations that require proper stormwater infrastructure design and construction.	N/A	N/A	N/A	N/A	N/A
1.9	Community Rating System Program (CRS). Increase participation	n of NFIP member commu	inities in the CRS Pr	ogram.		
1.9.1	Apply for/maintain membership in the CRS Program; continue to upgrade rating.	N/A	N/A	N/A	N/A	N/A
1.10	<u>Critical Facilities Assessments.</u> Perform assessments of critical special needs housing, and others) to address building and site vulnerability to damage and disruption of operations during several process.	vulnerabilities to hazards	, identify damage co			

	Mobile County School Board Community Ac	tion Program				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more	· L	Estimated Cost
1.10.1	Perform vulnerability assessments of critical facilities to identify retrofit projects to improve the safety of occupants and mitigate damages from hazards.	Executive Manager of Facilities	High	Mid-Range	FEMA HMA Grant	TBD
2	Goal for Property Protection. Protect structures and their occupants and contents from the damaging effects of natural hazards.					
2.1	Building Relocation. Relocate buildings out of hazardous flood a	reas to safeguard against	damages and estab	lish permanent o	pen space.	
2.1.1	Pursue FEMA grant funds to relocate buildings out of hazardous flood areas, with emphasis on pre-FIRM residential buildings, where deemed more cost effective than property acquisition or building elevation.	N/A	N/A	N/A	N/A	N/A
2.2	Acquisition. Acquire flood prone buildings and properties and e	stablish permanent open	space.			
2.2.1	Pursue grant funds to acquire and demolish flood prone or substantially damaged structures and replace with permanent open space.	N/A	N/A	N/A	N/A	N/A
2.2.2	Utilize the most recent NFIP repetitive loss property list, and other appropriate sources, to create and maintain a prioritized list of acquisition mitigation projects based on claims paid.	Risk Management	Medium	Mid-Range	FEMA HMA Grant	TBD
2.3	Building Elevation. Elevate buildings in hazardous flood areas to	o safeguard against dama	ges.	<u> </u>		

	Mobile County School Board Community Ac	tion Program				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
2.3.1	Pursue grant funds to subsidize the elevation of certain buildings in flood prone areas where acquisition or relocation is not feasible, with emphasis on Pre-FIRM buildings; where feasible, elevation is preferable to flood proofing.	Executive Manager of Facilities and Risk Management	Low	Long-Range	FEMA HMA Grant	TBD
2.3.2	Pursue grant funds to repair, elevate and weatherize existing homes for low- to moderate-income families.	N/A	N/A	N/A	N/A	N/A
2.4	Flood Proofing. Encourage flood proofing of buildings in hazard	lous flood areas to safegu	lard against damage	S.		
2.4.1	Pursue FEMA grant funds for flood proofing pre-FIRM non- residential buildings, where feasible.	Executive Manager of Facilities and Risk Management	Medium	Long-Range	FEMA HMA Grant	TBD
2.5	Flood Control Measures. Construct small flood control measure	s to reduce/prevent flood	damage.			
2.5.1	Examine use of minor structural projects (small berm or floodwalls) in areas that cannot be mitigated through non-structural mitigation techniques.	N/A	N/A	N/A	N/A	N/A
2.6	Building Retrofits. Retrofit vulnerable buildings to protect agains severe storms, and earthquakes.	st natural hazards damage	es, including flooding	g, high winds, tor	nadoes, huri	ricanes,
2.6.1	Pursue FEMA grant funds to retrofit existing buildings, critical facilities, and infrastructure against potential damages from natural and manmade hazards.	Risk Management	High	Long-Range	FEMA HMA Grant	TBD

	Mobile County School Board Community Ac	tion Program				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years		Estimated Cost
2.7	Hazard Insurance Awareness. Increase public awareness of floor	•	ders that may be red			
	sinkhole, and other damages typically not covered by standard p	property protection policie	es.			
2.7.1	Promote the purchase of insurance coverage by property owners and renters for flood damages in high-risk areas.	N/A	N/A	N/A	N/A	N/A
2.8	<u>Critical Facilities Protection</u> . Protect critical facilities from potent relocations of existing facilities located in high-risk zones or cor				_	ofits or
2.8.1	Install lightning and/or surge protection on existing critical facilities.	Executive Manager of Facilities	Low	Long-Range	Local Funds	TBD
2.9	Backup Power. Ensure uninterrupted power supply to critical fac	cilities during emergency e	events.			
2.9.1	Pursue grant funding for the installation of backup power generators for critical facilities.	Executive Manager of Facilities	High	Short-Range	FEMA HMA Grant	TBD
3	Goal for Public Education and Outreach. Educate and inform the life and property.	public about the risks of	hazards and the tec	nniques available	to reduce th	reats to
3.1	Map Information. Increase public access to Flood Insurance Rate Map (FIRM) information.					
3.1.1	Publicize the availability of FIRM information to real estate agents, builders, developers, and homeowners through local trade publications and newspaper announcements.	N/A	N/A	N/A	N/A	N/A
3.2	Outreach Projects. Conduct regular public events to inform the p	l public of hazards and mitig	gation measures.			

	Mobile County School Board Community Act	tion Program				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
3.2.1	Continue to participate in environmental awareness events to provide the public information on hazard exposure and mitigation measures, such as City/County Day, Hurricane Awareness Week, and Severe Weather Week.	N/A	N/A	N/A	N/A	N/A
3.2.2	Conduct materials distribution, via the internet and other media, and other outreach activities and workshops to encourage families and individuals to implement hazard mitigation measures in their homes.	N/A	N/A	N/A	N/A	N/A
3.2.3	Promote disaster resilience within the business community through workshops, educational materials and planning guides, intended to assist business owners in recovering from a disaster event in a timely manner.	N/A	N/A	N/A	N/A	N/A
3.2.4	Distribute outreach materials to citizens, builders and business owners inquiring about a flood problem, a building permit or other natural hazard related questions.	N/A	N/A	N/A	N/A	N/A
3.2.6	Host hazard mitigation roundtables at the beginning of the fiscal year and the beginning of hurricane season to review and coordinate individual jurisdiction mitigation activities.	N/A	N/A	N/A	N/A	N/A
3.3	<u>Library.</u> Use local library resources to educate the public on haz	ard risks and mitigation a	lternative			
3.3.1	Through local libraries, maintain and distribute free and current publications from FEMA, NWS, USGS, and other federal and state agencies.	N/A	N/A	N/A	N/A	N/A

Mobile County School Board Community Ac	tion Program				
Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Fimeline Short-Range=less than 2 years Mid-Range=2-5 years cong-Range=more than 5 years		Estimated Cost
Education Programs. Use schools and other community education measures.	on resources to conduct p			risks and mi	tigation
Distribute hazard mitigation brochures to students through area schools.	N/A	N/A	N/A	N/A	N/A
		ected officials, inter	l ested agencies ar	id organizati	ons,
Distribute the 2015 plan to local officials, stakeholders, and interested individuals through internet download.	N/A	N/A	N/A	N/A	N/A
				video sharii	ng, and
Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life.	N/A	N/A	N/A	NA	N/A
Weather Radios. Improve public access to weather alerts.					
Promote the use of weather radios in households and businesses.	N/A	N/A	N/A	N/A	N/A
Require the installation of weather radios in all public buildings and places of public assembly.	N/A	N/A	N/A	N/A	N/A
Pursue grant funding to distribute weather radios and emergency response instructions to municipal residents.	N/A	N/A	N/A	N/A	N/A
	Goal, Objectives and Mitigation Measures Education Programs. Use schools and other community educatimeasures. Distribute hazard mitigation brochures to students through area schools. Community Hazard Mitigation Plan Distribution. Distribute the habusinesses, and residents, using all available means of publicationstribute the 2015 plan to local officials, stakeholders, and interested individuals through internet download. Mass Media Relations. Utilize all available mass media, such as, on-line social networking to increase public awareness and distribute and interested of hazard threats and means to mitigate property damages and loss of life. Weather Radios. Improve public access to weather alerts. Promote the use of weather radios in households and businesses. Require the installation of weather radios in all public buildings and places of public assembly.	Education Programs. Use schools and other community education resources to conduct measures. Distribute hazard mitigation brochures to students through area schools. Community Hazard Mitigation Plan Distribution. Distribute the hazard mitigation plan to el businesses, and residents, using all available means of publication and distribution. Distribute the 2015 plan to local officials, stakeholders, and interested individuals through internet download. Mass Media Relations. Utilize all available mass media, such as, newspapers, radio, TV, con-line social networking to increase public awareness and distribute public information of Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life. Weather Radios. Improve public access to weather alerts. Promote the use of weather radios in households and businesses. N/A Require the installation of weather radios in all public buildings and places of public assembly.	Goal, Objectives and Mitigation Measures Education Programs. Use schools and other community education resources to conduct programs on topics measures. Distribute hazard mitigation brochures to students through area schools. Community Hazard Mitigation Plan Distribution. Distribute the hazard mitigation plan to elected officials, interbusinesses, and residents, using all available means of publication and distribution. Distribute the 2015 plan to local officials, stakeholders, and interested individuals through internet download. Mass Media Relations. Utilize all available mass media, such as, newspapers, radio, TV, cable access, internet on-line social networking to increase public awareness and distribute public information on hazard mitigation Maintain appropriate media relationships to ensure the public is informed of hazard threats and means to mitigate property damages and loss of life. Weather Radios. Improve public access to weather alerts. Promote the use of weather radios in households and businesses. N/A N/A N/A N/A N/A N/A N/A N/	Goal, Objectives and Mitigation Measures Page Description Programs P	Goal, Objectives and Mitigation Measures Part Substitute Part P

	Mobile County School Board Community Ac	tion Program				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years		Estimated Cost
3.9	<u>Disaster Warning.</u> Improve public warning systems.		_	,, v, v, = = +		
3.9.1	Establish an ALERT flood warning system at strategic locations in the county, including at a minimum, sensors that provide real-time access to stream flow, stream stage, and precipitation data.	N/A	N/A	N/A	N/A	N/A
3.9.2	Ensure that the ALERT warning system links data into GIS with the ability to use measured and forecasted rainfall to predict potential flood levels and create real-time maps of flooded areas.	N/A	N/A	N/A	N/A	N/A
3.9.3	Evaluate the feasibility of a shared tri-county ALERT system covering Baldwin, Escambia, and Mobile counties.	N/A	N/A	N/A	N/A	N/A
3.9.4	Upgrade siren-warning systems to provide complete coverage to all jurisdictions.	N/A	N/A	N/A	N/A	N/A
3.9.5	Upgrade critical communications infrastructure.	N/A	N/A	N/A	N/A	N/A
4	Goal for Natural Resources Protection. Preserve and restore the development that balances the constraints of nature with the social section.				tainable con	nmunity
4.1	River/Stream Corridor Restoration and Protection. Restore and	protect river and stream c	orridors within areas	S.		
4.1.1	Keep builders and developers informed of Federal wetlands permitting requirements of the Corps of Engineers.	N/A	N/A	N/A	N/A	N/A

	Mobile County School Board Community Ac	tion Program						
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost		
4.1.2	Adopt and/or enforce regulations prohibiting dumping and littering within river and stream corridors.	N/A	N/A	N/A	N/A	N/A		
4.2	Beach and Dune Protection/Renourishment. Protect beaches and dunes from coastal and man-made erosion and implement renourishment programs.							
4.2.1	Restore and protect wetlands to enhance stormwater drainage.	N/A	N/A	N/A	N/A	N/A		
4.2.2	Develop a coastal renourishment program.	N/A	N/A	N/A	N/A	N/A		
4.3	Water Resources Conservation Programs. Protect water quantity droughts and assure uninterrupted potable water supplies.	and quality through water	er conservation prog	rams to mitigate t	the effects o	f		
4.3.1	Enforce water use restrictions during periods of drought to conserve existing water supplies.	N/A	N/A	N/A	N/A	N/A		
5	Goal for Structural Projects. Apply engineered structural modific damaging impacts of hazards, where feasible, cost effective, and			cture to reduce th	ne potentially	y		
5.1	<u>Drainage System Maintenance.</u> Improve maintenance programs	for streams and drainage	ways.					
5.1.1	Prepare and implement standard operating procedures and guidelines for drainage system maintenance.	Executive Manager of Facilities	Medium	Long-Range	Local Funds	TBD		
5.2	Reservoirs and Drainage System Improvements. Control flooding effective and feasible, such as levees/floodwalls, diversions, characteristics.	= =	•			st		

	Mobile County School Board Community Ac	tion Program				
#	Goal, Objectives and Mitigation Measures	Lead Responsibility for Carrying Out Measure	Priority	Timeline Short-Range=less than 2 years Mid-Range=2-5 years Long-Range=more than 5 years	Funding Source	Estimated Cost
5.2.1	Construct drainage improvements to reduce or eliminate localized flooding in identified problem drainage areas.	N/A	N/A	N/A	N/A	N/A
5.3	Community Shelters and Safe Rooms. Provide shelters from nat	ural hazards for the safety	of community resid	lents.		
5.3.1	Construct new community safe rooms in accessible locations and add safe rooms within new and existing public and institutional buildings, such as schools, colleges and universities, senior centers, community centers, hospitals, and government buildings.	Executive Manager of Facilities	High	Long-Range	FEMA HMA Grant	TBD
5.3.2	Encourage the construction of safe rooms in new and existing homes and buildings.	Executive Manager of Facilities	High	Long-Range	FEMA HMA Grant	TBD

Baldwin	County's Plan Adon	tion and Approval	documents will be at	tached on
the follo	wing pages.	tion and Approva	documents will be at	tached on

Region IV 3005 Chamblee Tucker Road Atlanta, GA 30341



September 17, 2021

Mr. Michael Johnson Emergency Management Coordinator Alabama Emergency Management Agency Post Office Drawer 2160 Clanton, AL 35046-2160

Reference: Multi-Jurisdictional Hazard Mitigation Plan: Division A, Phase 2

Dear Mr. Johnson:

This is a follow-up to our previous correspondence of May 11, 2021, in which we approved the Division A, Phase 2 Multi-Jurisdictional Hazard Mitigation Plan and all the participating communities that submitted their resolutions at the time of plan approval. On August 12, 2021, we received the following resolution for inclusion within this plan from your office and subsequently have approved the community under the approved Division A, Phase 2 Multi-Jurisdictional Hazard Mitigation Plan, effective August 12, 2021:

• City of Bay Minette

The approved participating community is hereby an eligible applicant through the State for the following mitigation grant programs administered by the Federal Emergency Management Agency (FEMA):

- Hazard Mitigation Grant Program (HMGP)
- Flood Mitigation Assistance (FMA)
- Building Resilient Infrastructure and Communities (BRIC)

National Flood Insurance Program (NFIP) participation is required for some programs.

We commend the participants in the Division A, Phase 2 Multi-Jurisdictional Hazard Mitigation Plan for the development of a solid, workable plan that will guide hazard mitigation activities over the coming years. Please note that all requests for funding will be evaluated individually according to the specific eligibility and other requirements of the program under which the application is submitted. For example, a specific mitigation activity or project identified in the plan may not meet the eligibility requirements for FEMA funding, and even eligible mitigation activities are not automatically approved for FEMA funding under any of the programs.

We strongly encourage each community to perform an annual review and assessment of the effectiveness of their hazard mitigation plan; however, a formal plan update is required at least every five (5) years. We also encourage each community to conduct a plan update process within one (1) year of being included within a Presidential Disaster Declaration or of the adoption of major modifications to their local Comprehensive Land Use Plan or other plans that affect hazard mitigation or land use and development.

When the Plan is amended or revised, the amendments and revisions should be incorporated into the next plan update. If the Plan is not updated prior to the required five (5) year update, please ensure that the Draft update is submitted at least six (6) months prior to expiration of this plan approval.

If you or the participants in the Division A, Phase 2 Hazard Mitigation Plan have any further questions or need any additional information, please do not hesitate to contact Kelsey Goodman, of the Hazard Mitigation Assistance Branch, at (202) 997-7573, or Lillian Huffman, of my staff, at (770) 220-5322.

Sincerely,

Kristen M. Mattury Kristen M. Martinenza, P.E., CFM

Branch Chief Risk Analysis FEMA Region IV

STATE OF ALABAMA)
COUNTY OF BALDWIN)

RESOLUTION #2021-109 OF THE BALDWIN COUNTY COMMISSION

A RESOLUTION ADOPTING THE 2021 Division A, Phase 2 MULTI-HAZARD MITIGATION PLAN, IN FULFILLMENT OF THE FEDERAL DISASTER MITIGATION ACT OF 2000 AND THE LOCAL MITIGATION PLAN REQUIREMENTS OF 44 C.F.R. SECTION 201.6 AND FEMA LOCAL HAZARD MITIGATION PLANNING GUIDANCE.

WHEREAS, the Baldwin County Commission recognizes the threat that natural hazards pose to people and property within Baldwin County; and

WHEREAS, the Baldwin County Commission has prepared a Hazard Mitigation Plan, hereby known as <u>2021 Baldwin County Hazard Mitigation Plan</u> in accordance with the Disaster Mitigation Act of 2000; and

WHEREAS, the Baldwin County Hazard Mitigation Plan, is part of the South Alabama Regional Planning Commission (SARPC) and Alabama Tombigbee Planning Commission Regional Mitigation Plan; and

WHEREAS, the <u>2021 Baldwin County Hazard Mitigation Plan</u>, identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Baldwin County from the impacts of future hazards and disasters; and

WHEREAS, said mitigation plan addresses all natural hazards deemed to threaten property and persons within the unincorporated and incorporated areas of Baldwin County; and

WHEREAS, the 2021 Baldwin County Hazard Mitigation plan has been prepared in accordance with FEMA guidance and DMA 2000 requirements under the direction of the Baldwin County Hazard Mitigation Planning Committee, which included representatives from all jurisdictions within Baldwin County, and with the support of the Baldwin County EMA, on behalf of all jurisdictions within Baldwin County; and

WHEREAS, the Federal planning criteria requires formal adoption of the FEMA-approved plan update by each participating jurisdiction; and

WHEREAS, adoption by the Baldwin County Commission demonstrates their commitment to hazard mitigation and achieving the goals outlined in the 2021 Baldwin County Hazard Mitigation Plan.

NOW THEREFORE, BE IT RESOLVED that the <u>2021 Baldwin County Hazard Mitigation Plan</u> is hereby adopted and immediately made effective.

ADOPTED, this the 17th day of August, 2021.

APPROVED:

James E. Ball, Vice Chairman

Baldwin County Commission

ATTEST;

Wayne Dyess, County Administrator

Resolution of the Baldwin County Board of Education Regarding the 2021 Division A, Phase 2 MULTI-HAZARD MITIGATION PLAN

A RESOLUTION ADOPTING THE 2021 Division A, Phase 2 MULTI-HAZARD MITIGATION PLANIN FULFILLMENT OF THE FEDERAL DISASTER MITIGATION ACT OF 2000 AND THE LOCAL MITIGATION PLAN REQUIREMENTS OF 44 C.F.R. SECTION 201.6 AND FEMA LOCAL HAZARD MITIGATION PLANNING GUIDANCE.

WHEREAS, the Baldwin County Commission recognizes the threat that natural hazards pose to people and property within Baldwin County; and

WHEREAS, the Baldwin County Commission has prepared a multi-hazard mitigation plan, hereby known as 2021 Baldwin County Multi-Hazard Mitigation Plan in accordance with the Disaster Mitigation Act of 2000; and

WHEREAS, the 2021 Baldwin County Multi-Hazard Mitigation Plan, approved pending adoption by FEMA on _______, identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Baldwin County

from the impacts of future hazards and disasters; and

WHEREAS, said mitigation plan addresses all natural hazards deemed to threaten property and persons within the unincorporated and incorporated areas of Baldwin County; and

WHEREAS, the Alabama Emergency Management, acting as the State Administrative Agency for the Hazard Mitigation Grant Program awarded a planning grant to the South Alabama Regional Planning Commission (SARPC) fund the cost of the revision of this five year plan for all jurisdictions within its planning district; to include Baldwin County.

WHEREAS, the 2021 Baldwin County Hazard Mitigation plan has been prepared in accordance with FEMA guidance and DMA 2000 requirements under the direction of the Baldwin County Hazard Mitigation Planning Committee, which included representatives from all jurisdictions within Baldwin County, and with the support of the Baldwin County EMA, on behalf of all jurisdictions within Baldwin County; and

WHEREAS, the Federal planning criteria requires formal adoption of the FEMA-approved plan update by each participating jurisdiction; and

WHEREAS, adoption by the Baldwin County Commission demonstrates their commitment to the hazard mitigation and achieving the goals outlined in the <u>2021</u> Baldwin County Multi-Hazard Mitigation Plan.

NOW THEREFORE, BE IT RESOLVED that the <u>2021 Baldwin County Multi-Hazard Mitigation Plan</u> is hereby adopted and immediately mad effective.

ADOPTED, this the 2nd day of September, 2021.

APPROVED:

By:

ATTEST:

By:

Director of Prevention + Support

A RESOLUTION ADOPTING THE <u>2021 BALDWIN COUNTY MULTI-HAZARD MTIGATION PLAN</u>, IN FULFILLMENT OF THE FEDERAL DISASTER MITIGATION ACT OF 2000 AND THE LOCAL MITIGATION PLAN REQUIREMENTS OF 44 C.F.R. SECTION 201.6 AND FEMA LOCAL HAZARD MITIGATION PLANNING GUIDANCE.

WHEREAS, the Baldwin County Commission recognizes the threat that natural hazards pose to people and property within Baldwin County; and

WHEREAS, the Baldwin County Commission has prepared a multi-hazard mitigation plan, hereby known as 2021 Baldwin County Multi-Hazard Mitigation Plan, part of the DIVISION A Multi-Jirisdiction Mitigation Plan, in accordance with the Disaster Mitigation Act of 2000; and

WHEREAS, the 2021 Baldwin County Multi-Hazard Mitigation Plan, approved pending adoption by FEMA on ______, identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Baldwin County from the impacts of future hazards and disasters; and

WHEREAS, said mitigation plan addresses all natural hazards deemed to threaten property and persons within the unincorporated and incorporated areas of Baldwin County; and

WHEREAS, the Alabama Emergency Management, acting as the State Administrative Agency for the Hazard Mitigation Grant Program awarded a planning grant to the South Alabama Regional Planning Commission (SARPC) fund the cost of the revision of this five year plan for all jurisdictions within its planning district; to include Baldwin County.

WHEREAS, the 2021 Baldwin County Hazard Mitigation plan has been prepared in accordance with FEMA guidance and DMA 2000 requirements under the direction of the Baldwin County Hazard Mitigation Planning Committee, which included representatives from all jurisdictions within Baldwin County, and with the support of the Baldwin County EMA, on behalf of all jurisdictions within Baldwin County; and

WHEREAS, the Federal planning criteria requires formal adoption of the FEMA-approved plan update by each participating jurisdiction; and

WHEREAS, adoption by the Baldwin County Commission demonstrates their commitment to the hazard mitigation and achieving the goals outlined in the 2021 Baldwin County Multi-Hazard Mitigation Plan.

NOW THEREFORE, BE IT RESOLVED that the <u>2021 Baldwin County Multi-Hazard Mitigation</u> Plan is hereby adopted and immediately made effective,

ADOPTED, this the 2nd day of August , 2021.

APPROVED:
By:
Robert A. Wills, Mayor

ATTEST:
By:

Rita Diedtrich, City Clerk

CITY OF DAPHNE, ALABAMA Resolution 2021 - 29

A RESOLUTION ADOPTING THE 2021 Division A, Phase 2 MULTI-HAZARD MITIGATION PLAN, IN FULFILLMENT OF THE FEDERAL DISASTER MITIGATION ACT OF 2000 AND THE LOCAL MITIGATION PLAN REQUIREMENTS OF 44 C.F.R. SECTION 201.6 AND FEMA LOCAL HAZARD MITIGATION PLANNING GUIDANCE.

WHEREAS, the Baldwin County Commission recognizes the threat that natural hazards pose to people and property within Baldwin County; and

WHEREAS, the Baldwin County Commission has prepared a multi-hazard mitigation plan, hereby known as 2021 Baldwin County Multi-Hazard Mitigation Plan in accordance with the Disaster Mitigation Act of 2000; and

WHEREAS, the 2021 Baldwin County Multi-Hazard Mitigation Plan, approved pending adoption by FEMA, identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Baldwin County from the impacts of future hazards and disasters; and

WHEREAS, said mitigation plan addresses all-natural hazards deemed to threaten property and persons within the unincorporated and incorporated areas of Baldwin County; and

WHEREAS, the Alabama Emergency Management, acting as the State Administrative Agency for the Hazard Mitigation Grant Program, awarded a planning grant to the South Alabama Regional Planning Commission (SARPC) to fund the cost of the revision of this five-year plan for all jurisdictions within its planning district, to include Baldwin County.

WHEREAS, the 2021 Baldwin County Hazard Mitigation plan has been prepared in accordance with FEMA guidance and DMA 2000 requirements under the direction of the Baldwin County Hazard Mitigation Planning Committee, which included representatives from all jurisdictions within Baldwin County, and with the support of the Baldwin County EMA, on behalf of all jurisdictions within Baldwin County; and

WHEREAS, the Federal planning criteria requires formal adoption of the FEMA-approved plan update by each participating jurisdiction; and

WHEREAS, under the FEMA mitigation planning guidance, it is stated that the countdown to the next five-year required revision of the plan begins once the first jurisdiction formally adopts the plan; and

WHEREAS, adoption by the Baldwin County Commission demonstrates their commitment to the hazard mitigation and achieving the goals outlined in the 2021 Baldwin County Multi-Hazard Mitigation Plan.

NOW, THEREFORE, BE IT RESOLVED that the 2021 Baldwin County Multi-Hazard Mitigation Plan is hereby adopted and immediately made effective.

APPROVED AND ADOPTED BY THE CITY COUNCIL OF THE CITY OF DAPHNE, ALABAMA this 2ND DAY of AUGUST, 2021.

Robin LeJeune, Mayor

ATTEST:

Candace G. Antinarella, CMC, City Clerk

Resolution 2021-13

TOWN OF ELBERTA

A RESOLUTION ADOPTING THE 2021 Division A, Phase 2 MULTI-HAZARD **MITIGATION FULFILLMENT** THE **FEDERAL** PLAN, **OF MITIGATION** ACT **OF** 2000 AND THE LOCAL MITIGATION REQUIREMENTS OF 44 C.F.R. SECTION 201.6 AND FEMA LOCAL HAZARD MITIGATION PLANNING GUIDANCE.

WHEREAS, the Town of Elberta recognizes the threat that natural hazards pose to people and property within Baldwin County; and

WHEREAS, the Town of Elberta has prepared a multi-hazard mitigation plan, hereby known as 2021 Baldwin County Multi-Hazard Mitigation Plan in accordance with the Disaster Mitigation Act of 2000; and

WHEREAS, the 2021 Baldwin County Multi-Hazard Mitigation Plan, approved pending adoption by FEMA on Oulay 2021, identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Baldwin County from the impacts of future hazards and disasters; and

WHEREAS, said mitigation plan addresses all natural hazards deemed to threaten property and persons within the unincorporated and incorporated areas of Baldwin County; and

WHEREAS, the Alabama Emergency Management, acting as the State Administrative Agency for the Hazard Mitigation Grant Program awarded a planning grant to the South Alabama Regional Planning Commission (SARPC) fund the cost of the revision of this five year plan for all jurisdictions within its planning district; to include Baldwin County.

WHEREAS, the 2021 Baldwin County Hazard Mitigation plan has been prepared in accordance with FEMA guidance and DMA 2000 requirements under the direction of the Baldwin County Hazard Mitigation Planning Committee, which included representatives from all jurisdictions within Baldwin County, and with the support of the Baldwin County EMA, on behalf of all jurisdictions within Baldwin County; and

WHEREAS, the Federal planning criteria requires formal adoption of the FEMA-approved plan update by each participating jurisdiction; and

WHEREAS, adoption by the Town of Elberta demonstrates their commitment to the hazard mitigation and achieving the goals outlined in the 2021 BaldwinCounty Multi-Hazard Mitigation Plan.

NOW THEREFORE, BE IT RESOLVED that the <u>2021 Baldwin County Multi-Hazard Mitigation</u> Plan is hereby adopted and immediately made effective.

ADOPTED, this the 17th, day of August, 2021.

TOWN OF ELBERTA, ALABAMA

Steve Kirkpatrick, Mayor Pro Tem

APTEST

Caryn Woener, Town Clerk

RESOLUTION NO. 4169-21

ADOPTING THE 2021 Division A, Phase 2 MULTI-HAZARD MITIGATION PLAN IN FULFILLMENT OF THE FEDERAL DISASTER MITIGATION ACT OF 2000 AND THE LOCAL MITIGATION PLAN REQUIREMENTS OF 44 C.F.R. SECTION 201.6 AND FEMA LOCAL HAZARD MITIGATION PLANNING GUIDANCE

WHEREAS, the Baldwin County Commission recognizes the threat that natural hazards pose to people and property within Baldwin County; and

WHEREAS, the Baldwin County Commission has prepared a multi-hazard mitigation plan, hereby known as <u>2021 Baldwin County Multi-Hazard Mitigation Plan</u> in accordance with the Disaster Mitigation Act of 2000; and

WHEREAS, the <u>2021 Baldwin County Multi-Hazard Mitigation Plan</u>, approved pending adoption by FEMA on July 21, 2021, identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Baldwin County from the impacts of future hazards and disasters; and

WHEREAS, said mitigation plan addresses all natural hazards deemed to threaten property and persons within the unincorporated and incorporated areas of Baldwin County; and

WHEREAS, the Alabama Emergency Management, acting as the State Administrating Agency for the FY 2014 Pre-Disaster Mitigation Grant (PDM) program awarded a PDM planning grant to the South Alabama Regional Planning Commission (SARPC) to fund 75% of the total cost of the revision of this five year plan for all jurisdictions within its planning district; to include Baldwin County; and

WHEREAS, the 2021 Baldwin County Hazard Mitigation Plan has been prepared in accordance with FEMA guidance and DMA 2000 requirements under the direction of the Baldwin County Hazard Mitigation Planning Committee, which included representatives from all jurisdictions within Baldwin County, and with the support of the Baldwin County EMA, on behalf of all jurisdictions within Baldwin County; and

WHEREAS, the Federal planning criteria requires formal adoption of the FEMA-approved plan update by each participating jurisdiction; and

WHEREAS, under the FEMA mitigation planning guidance, it is stated that the countdown to the next five year required revision of the plan begins once the first jurisdiction formally adopts the plan; and

WHEREAS, adoption by the Baldwin County Commission demonstrates their commitment to the hazard mitigation and achieving the goals outlined in the <u>2021 Baldwin County Multi-Hazard Mitigation Plan.</u>

NOW THEREFORE, BE IT RESOLVED that the <u>2021 Baldwin County Multi-Hazard Mitigation</u> Plan is hereby adopted and immediately made effective.

Adopted and Approved this 9th day of August, 2021

Jack Burrell, Council Presiden

Attest:

sa A. Hanks, MMC City Clerk





407 E. Laurel Avenue Foley, AL 36535

Signature Copy

Resolution: 21-1268-RES

File Number: 21-0431 Enactment Number: 21-1268-RES

A Resolution Adopting the 2021 Division A, Phase 2 MULTI-HAZARD MITIGATION PLAN, in Fulfillment of the Federal Disaster Mitigation Act of 2000 and the Local Mitigation Plan Requirements of 44 C.F.R. Section 201.6 and FEMA Local Hazard Mitigation Planning Guidance.

WHEREAS, the Baldwin County Commission recognizes the threat that natural hazards pose to people and property within Baldwin County; and

WHEREAS, the Baldwin County Commission has prepared a multi-hazard mitigation plan, hereby known as <u>2021 Baldwin County Multi-Hazard Mitigation Plan</u> in accordance with the Disaster Mitigation Act of 2000; and

WHEREAS, the 2021 Baldwin County Multi-Hazard Mitigation Plan, approved pending adoption by FEMA on August 2, 2021, identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Baldwin County from the impacts of future hazards and disasters; and

WHEREAS, said mitigation plan addresses all natural hazards deemed to threaten property and persons within the unincorporated and incorporated areas of Baldwin County; and

WHEREAS, the Alabama Emergency Management, acting as the State Administrating Agency for the Hazard Mitigation Grant Program, awarded a planning grant to the south Alabama Regional Planning Commission (SARPC) to fund the cost of the revision of this five year plan for all jurisdictions within its planning district; to include Badlwin County; and

WHEREAS, the 2021 Baldwin County Hazard Mitigation Plan has been prepared in accordance with FEMA guidance and DMA 2000 requirements under the direction of the Baldwin County Hazard Mitigation Planning Committee, which included representatives from all jurisdictions within Baldwin County, and with the support of the Baldwin County EMA, on behalf of all jurisdictions within Baldwin County; and

WHEREAS, the Federal planning criteria requires formal adoption of the FEMA-approved plan update by each participating jurisdiction; and

WHEREAS, under the FEMA mitigation planning guidance, it is stated that the countdown to the next five year required revision of the plan begins once the first jurisdiction formally adopts the plan; and

WHEREAS, adoption by the Baldwin County Commission demonstrates their commitment to the hazard mitigation and achieving the goals outlined in the <u>2021 Baldwin County</u>. <u>Multi-Hazard Mitigation Plan</u>.

NOW THEREFORE BE IT RESOLVED that the City Council of the City of Foley, Alabama, as follows:

SECTION 1: Adopts and immediately makes effective the 2021 Baldwin County Multi-Hazard Mitigation Plan.

SECTION 2: The 2021 Hazard Mitigation Plan can be viewed at https://baldwincountyal.gov/departments/emergency-management-agency/ema-hazard-mitigation

SECTION 3: This Resolution shall become effective immediately upon its adoption as required by law.

PASSED, APPROVED AND ADOPTED this 2nd day of August, 2021.

(President's Signature

Attest By City Clerk

Date

8-2-21

Date

8-2-2/

Mayor's Signature

Date

@-2-2

Printed on 8/2/21

RESOLUTION NO. 6446-21

A RESOLUTION

ADOPTING THE 2021 Division A, Phase 2 MULTI-HAZARD MITIGATION PLAN, IN FULFILLMENT OF THE FEDERAL DISASTER MITIGATION ACT OF 2000 AND THE LOCAL MITIGATION PLAN REQUIREMENTS OF 44 C.F.R. SECTION 201.6 AND FEMA LOCAL HAZARD MITIGATION PLANNING GUIDANCE.

WHEREAS, the City of Gulf Shores recognizes the threat that natural hazards pose to people and property within Baldwin County; and

WHEREAS, the City of Gulf Shores has prepared a multi-hazard mitigation plan, hereby known as 2020 Baldwin County Multi-Hazard Mitigation Plan in accordance with the Disaster Mitigation Act of 2000; and

WHEREAS, the 2020 Baldwin County Multi-Hazard Mitigation Plan, approved pending adoption by FEMA on August 23, 2021, identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Baldwin County from the impacts of future hazards and disasters; and

WHEREAS, said mitigation plan addresses all natural hazards deemed to threaten property and persons within the unincorporated and incorporated areas of Baldwin County; and

WHEREAS, the Alabama Emergency Management, acting as the State Administrative Agency for the Hazard Mitigation Grant Program awarded a planning grant to the South Alabama Regional Planning Commission (SARPC) fund the cost of the revision of this five year plan for all jurisdictions within its planning district; to include Baldwin County.

WHEREAS, the 2020 Baldwin County Hazard Mitigation plan has been prepared in accordance with FEMA guidance and DMA 2000 requirements under the direction of the Baldwin County Hazard Mitigation Planning Committee, which included representatives from all jurisdictions within Baldwin County, and with the support of the Baldwin County EMA, on behalf of all jurisdictions within Baldwin County; and

WHEREAS, the Federal planning criteria requires formal adoption of the FEMA approved plan update by each participating jurisdiction; and

WHEREAS, adoption by the City of Gulf Shores demonstrates their commitment to the hazard mitigation and achieving the goals outlined in the 2020 Baldwin County Multi-Hazard Mitigation Plan.

NOW THEREFORE, BE IT RESOLVED that the <u>2020 Baldwin County Multi-Hazard Mitigation</u> Plan is hereby adopted and immediately made effective.

ADOPTED this 23rd day of August, 2021.

Robert Craft, Mayor

CERTIFICATE

I, Wanda Parris, MMC, City Clerk of the City of Gulf Shores, Alabama, do hereby certify that the foregoing is a true and correct copy of Resolution No. 6446-21 (prepared by City Clerk), which Resolution was duly and legally adopted at a regular meeting of the City Council on August 23, 2021.

City Clerk

RESOLUTION NO. 2021-25

A RESOLUTION ADOPTING THE 2021 DIVISION A, PHASE 2 HAZARD PLAN, IN FULFILLMENT **MITIGATION** THE **OF FEDERAL OF MITIGATION MITIGATION ACT** 2000 **AND** THE **LOCAL** REQUIREMENTS OF 44 C.F.R. SECTION 201.6 AND FEMA LOCAL HAZARD MITIGATION PLANNING GUIDANCE.

WHEREAS, the Town of Loxley recognizes the threat that natural hazards pose to people and property within Baldwin County; and

WHEREAS, the Town of Loxley worked with the Baldwin County Hazard Mitigation Planning Committee to create a Multi-Jurisdictional and Multi-Hazard mitigation plan, hereby known as 2021 Baldwin County Hazard Mitigation Plan in accordance with the Disaster Mitigation Act of 2000; and

WHEREAS, the Baldwin County Hazard Mitigation Plan, is part of the South Alabama Regional Planning Commission (SARPC) and Alabama Tombigbee Planning Commission Regional Mitigation Plan; and

WHEREAS, the 2021 Baldwin County Hazard Mitigation Plan, identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Baldwin County from the impacts of future hazards and disasters; and

WHEREAS, said mitigation plan addresses all natural hazards deemed to threaten property and persons within the unincorporated and incorporated areas of Baldwin County; and

WHEREAS, the 2021 Baldwin County Hazard Mitigation plan has been prepared in accordance with FEMA guidance and DMA 2000 requirements under the direction of the Baldwin County Hazard Mitigation Planning Committee, which included representatives from all jurisdictions within Baldwin County, and with the support of the Baldwin County EMA, on behalf of all jurisdictions within Baldwin County; and

WHEREAS, the Federal planning criteria requires formal adoption of the FEMA-approved plan update by each participating jurisdiction; and

WHEREAS, under the FEMA mitigation planning guidance, it is stated that the countdown to the next five year required revision of the plan begins once the first jurisdiction formally adopts the plan; and

WHEREAS, adoption by the Town of Loxley demonstrates their commitment to hazard mitigation and achieving the goals outlined in the 2021 Baldwin County Hazard Mitigation Plan.

NOW THEREFORE, BE IT RESOLVED that the <u>2021 Baldwin County Hazard</u> Mitigation Plan is hereby adopted and immediately made effective.

APPROVED AND ADOPTED, this the 9th day of August, 2021.

Richard L. Teal

Mayor

ATTEST:

Melissa Lawrence

Town Clerk/Treasurer



RESOLUTION 2021-09

A RESOLUTION ADOPTING THE 2021 Division A, Phase 2 MULTI-HAZARD MITIGATION PLAN, IN FULFILLMENT OF THE FEDERAL DISASTER MITIGATIONACT OF 2000 AND THE LOCAL MITIGATION PLAN REQUIREMENTS OF 44 C.F.R. SECTION 201.6 AND FEMA LOCAL HAZARD MITIGATION PLANNING GUIDANCE.

WHEREAS, the Baldwin County Commission recognizes the threat that natural hazards pose to people and property within Baldwin County; and

WHEREAS, the Baldwin County Commission has prepared a multi-hazard mitigation plan, hereby known as <u>2021 Baldwin County Multi-Hazard Mitigation Plan</u> in accordance with the Disaster Mitigation Act of 2000; and

WHEREAS, the <u>2021 Baldwin County Multi-Hazard Mitigation Plan</u>, approved pending adoption by FEMA on August 10, 2021, identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Baldwin County from the impacts of future hazards and disasters; and

WHEREAS, said mitigation plan addresses all-natural hazards deemed to threaten property and persons within the unincorporated and incorporated areas of Baldwin County; and

WHEREAS, the Alabama Emergency Management, acting as the State Administrative Agency for the Hazard Mitigation Grant Program awarded a planning grant to the South Alabama Regional Planning Commission (SARPC) fund the cost of the revision of this five-year plan for all jurisdictions within its planning district; to include Baldwin County.

WHEREAS, the 2021 Baldwin County Hazard Mitigation plan has been prepared in accordance with FEMA guidance and DMA 2000 requirements under the direction of the Baldwin County Hazard Mitigation Planning Committee, which included representatives from all jurisdictions within Baldwin County, and with the support of the Baldwin County EMA, on behalf of all jurisdictions within Baldwin County; and

WHEREAS, the Federal planning criteria requires formal adoption of the FEMA-approved plan update by each participating jurisdiction: and

WHEREAS, adoption by the Baldwin County Commission demonstrates their commitment to the hazard mitigation and achieving the goals outlined in the <u>2021 Baldwin County Multi-Hazard Mitigation Plan.</u>

NOW THEREFORE, BE IT RESOLVED that the <u>2021 Baldwin County Multi-Hazard Mitigation</u> Plan is hereby adopted and immediately made effective.

APPROVED AND ADOPTED, this the 10th day of August, 2021.

Kim Koniar, Mayor

ATTEST:

Hannah Driskell, Town Clerk

RESOLUTION NO. 21-177

A RESOLUTION ADOPTING THE 2021 Division A, Phase 2 MULTI-HAZARD MITIGATION PLAN IN FULFILLMENT OF THE FEDERAL DISASTER MITIGATION ACT OF 2000 AND THE LOCAL MITGATION PLAN REQUIREMENTS OF 44 C.F.R. SECTION 201.6 AND FEMA LOCAL HAZARD MITIGATION PLANNING GUIDANCE

FINDINGS:

- 1. The Baldwin County Commission recognizes the threat that natural hazards pose to people and property within Baldwin County.
- 2. The Baldwin County Commission has prepared a multi-hazard mitigation plan, hereby known as 2021 Baldwin County Multi-Hazard Mitigation Plan in accordance with the Disaster Mitigation Act of 2000.
- 3. The 2021 Baldwin County Multi-Hazard Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Baldwin County from the impacts of future hazards and disasters.
- 4. Said mitigation plan addresses all natural hazards deemed to threaten property and persons within the unincorporated and incorporated areas of Baldwin County.
- 5. The Alabama Emergency Management, acting as the State Administrative Agency for the Hazard Mitigation Grant Program, awarded a planning grant to the South Alabama Regional Planning Commission (SARPC) to fund the cost of the revision of this five year plan for all jurisdictions within its planning district, which includes Baldwin County.
- 6. The 2021 Baldwin County Hazard Mitigation plan has been prepared in accordance with FEMA guidance and DMA 2000 requirements under the direction of the Baldwin County Hazard Mitigation Planning Committee, which included representatives from all jurisdictions within Baldwin County, and with the support of the Baldwin County EMA, on behalf of all jurisdictions within Baldwin County.
- 7. The Federal planning criteria requires formal adoption of the FEMA-approved plan update by each participating jurisdiction.
- 8. Under the FEMA mitigation planning guidance, it is stated that the countdown to the next five year required revision of the plan begins once the first jurisdiction formally adopts the plan.
- 9. Adoption by the Orange Beach City Council demonstrates their commitment to the hazard mitigation and achieving the goals outlined in the 2021 Baldwin County Multi-Hazard Mitigation Plan.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF ORANGE BEACH, ALABAMA, AS FOLLOWS:

- 1. That the City of Orange Beach hereby adopts the 2021 Baldwin County Multi-Hazard Mitigation Plan; and
- 2. That this Resolution shall become effective immediately upon its adoption.

ADOPTED THIS 17th DAY OF AUGUST, 2021.

Renee Eberly City Clerk

CERTIFICATE

I, Renee Eberly, City Clerk of the City of Orange Beach, Alabama, do hereby certify that the foregoing is a true and correct copy of Resolution No. 21-177, which was duly and legally adopted at a regular meeting of the City Council on August 17, 2021.

City Clerk



Town of Perdido Beach

RESOLUTION 2021-09 ADOPTING THE 2021 Division A, Phase 2 MULTI-HAZARD MITIGATION PLAN, IN FUFILLMENT OF THE FEDERAL DISASTER MITIGATION ACT OF 2000 AND THE LOCAL MITIGATION PLAN REQUIREMENTS OF 44 C.F.R. SECTION 201.6 AND FEMA LOCAL HAZARD MITIGATION PLANNING GUIDANCE

WHEREAS, the Baldwin County Commission recognizes the threat that natural hazards pose to people and property with Baldwin County; and

WHEREAS, the Baldwin County Commission has prepared a multi-hazard mitigation plan, hereby known as 2021 Baldwin County Multi-Hazard Mitigation Plan in accordance with the Disaster Mitigation Act of 2000; and

WHEREAS, the 2021 Baldwin County Multi-Hazard Mitigation Plan, approved pending adoption by FEMA, identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Baldwin County from the impacts of future hazards and disasters; and

WHEREAS, said mitigation plan addresses all natural hazards deemed to threaten property and persons within the unincorporated and incorporated areas of Baldwin County; and

WHEREAS, the Alabama Emergency Management, acting as the State Administrative Agency for The Hazard Mitigation Grant Program awarded a planning grant to the South Alabama Regional Planning Commission (SARPC) fund the cost of the revision of this five year plan for all the jurisdictions within its planning district; to include Baldwin County.

WHEREAS, the 2021 Baldwin County Hazard Mitigation plan has been prepared in accordance with FEMA guidance and DMA 2000 requirements under the direction of the Baldwin County Hazard Mitigation Planning Committee, which included representatives from all jurisdictions with Baldwin County, and with the support of the Baldwin County EMA, on behalf of jurisdiction with Baldwin County; and

WHEREAS, THE Federal planning criteria requires formal adoption of the FEMA-approved plan update by each participating jurisdiction; and

WHEREAS, adoption by the Baldwin County Commission demonstrates their commitment to the hazard mitigation and achieving the goals outlined in the <u>2021 Baldwin</u> County Multi-Hazard Mitigation Plan.

NOW THEREFORE, BE IT RESOLVED that the <u>2021 Baldwin County Mutli-Hazard Plan is</u> <u>hereby adopted by The Town of Perdido Beach and immediately made effective.</u>

ADOPTED, this the 26th day of August, 2021.

APPROVED

Kae Hamilton, Mayor

ATTEST:

Christi Stitt, Town Clerk

RESOLUTION NO. 007-2021

of the City of Robertsdale

A RESOLUTION ADOPTING THE <u>2021 Division A</u>, <u>Phase 2 MULTI-HAZARD MITIGATION PLAN</u>, IN FULFILLMENT OF THE FEDERAL DISASTER MITIGATION ACT OF 2000 AND THE LOCAL MITIGATION PLAN REQUIREMENTS OF 44 C.F.R. SECTION 201.6 AND FEMA LOCAL HAZARD MITIGATION PLANNING GUIDANCE.

WHEREAS, the Baldwin County Commission recognizes the threat that natural hazards pose to people and property within Baldwin County; and

WHEREAS, the Baldwin County Commission has prepared a multi-hazard mitigation plan, hereby known as <u>2021 Baldwin County Multi-Hazard Mitigation Plan</u> in accordance with the Disaster Mitigation Act of 2000; and

WHEREAS, the <u>2021 Baldwin County Multi-Hazard Mitigation Plan</u>, approved pending adoption by FEMA on August 16, 2021, identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Baldwin County from the impacts of future hazards and disasters; and

WHEREAS, said mitigation plan addresses all natural hazards deemed to threaten property and persons within the unincorporated and incorporated areas of Baldwin County; and

WHEREAS, the Alabama Emergency Management, acting as the State Administrative Agency for the Hazard Mitigation Grant Program awarded a planning grant to the South Alabama Regional Planning Commission (SARPC) fund the cost of the revision of this five-year plan for all jurisdictions within its planning district; to include Baldwin County.

WHEREAS, the 2021 Baldwin County Hazard Mitigation plan has been prepared in accordance with FEMA guidance and DMA 2000 requirements under the direction of the Baldwin County Hazard Mitigation Planning Committee, which included representatives from all jurisdictions within Baldwin County, and with the support of the Baldwin County EMA, on behalf of all jurisdictions within Baldwin County; and

WHEREAS, the Federal planning criteria requires formal adoption of the FEMA-approved plan update by each participating jurisdiction; and

WHEREAS, adoption by the Baldwin County Commission demonstrates their commitment to the hazard mitigation and achieving the goals outlined in the <u>2021</u> Baldwin County Multi-Hazard Mitigation Plan.

NOW THEREFORE, BE IT RESOLVED that the <u>2021 Baldwin County Multi-Hazard</u> Mitigation Plan is hereby adopted and immediately made effective.

ADOPTED, this the 16th day of August, 2021.

APPROVED

Bv.

TZTTA

Resolution #615-09-20-2021

of the Town of Silverhill

A RESOLUTION ADOPTING THE <u>2021 BALDWIN COUNTY MULTI-HAZARD MTIGATION PLAN</u>, IN FULFILLMENT OF THE FEDERAL DISASTER MITIGATION ACT OF 2000 AND THE LOCAL MITIGATION PLAN REQUIREMENTS OF 44 C.F.R. SECTION 201.6 AND FEMA LOCAL HAZARD MITIGATION PLANNING GUIDANCE.

WHEREAS, the Baldwin County Commission recognizes the threat that natural hazards pose to people and property within Baldwin County; and

WHEREAS, the Baldwin County Commission has prepared a multi-hazard mitigation plan, hereby known as <u>2021 Baldwin County Multi-Hazard Mitigation Plan</u> in accordance with the Disaster Mitigation Act of 2000; and

WHEREAS, the <u>2021 Baldwin County Multi-Hazard Mitigation Plan</u>, approved pending adoption by FEMA on ______, identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Baldwin County from the impacts of future hazards and disasters; and

WHEREAS, said mitigation plan addresses all natural hazards deemed to threaten property and persons within the unincorporated and incorporated areas of Baldwin County; and

WHEREAS, the Alabama Emergency Management, acting as the State Administrative Agency for the Hazard Mitigation Grant Program awarded a planning grant to the South Alabama Regional Planning Commission (SARPC) fund the cost of the revision of this five-year plan for all jurisdictions within its planning district; to include Baldwin County.

WHEREAS, the 2021 Baldwin County Hazard Mitigation plan has been prepared in accordance with FEMA guidance and DMA 2000 requirements under the direction of the Baldwin County Hazard Mitigation Planning Committee, which included representatives from all jurisdictions within Baldwin County, and with the support of the Baldwin County EMA, on behalf of all jurisdictions within Baldwin County; and

WHEREAS, the Federal planning criteria requires formal adoption of the FEMA-approved plan update by each participating jurisdiction; and

WHEREAS, adoption by the Baldwin County Commission demonstrates their commitment to the hazard mitigation and achieving the goals outlined in the <u>2021 Baldwin</u> County Multi-Hazard Mitigation Plan.

NOW THEREFORE, BE IT RESOLVED that the <u>2021 Baldwin County Multi-Hazard Mitigation</u> Plan is hereby adopted and immediately made effective.

ADOPTED, this the 20 day of September 2021.

APPROVED:

By: Mayor

ATTEST:

Town Clerk

RESOLUTION NO. 1167-2021

A RESOLUTION ADOPTING THE <u>2021 Division A, Phase 2 MULTI-HAZARD MITIGATION PLAN</u>, IN FULFILLMENT OF THE FEDERAL DISASTER MITIGATIONACT OF 2000 AND THE LOCAL MITIGATION PLAN REQUIREMENTS OF 44 C.F.R. SECTION 201.6 AND FEMA LOCAL HAZARD MITIGATION PLANNING GUIDANCE

WHEREAS, the Baldwin County Commission recognizes the threat that natural hazards pose to people and property within Baldwin County; and

WHEREAS, the Baldwin County Commission has prepared a multi-hazard mitigation plan, hereby known as 2021 Baldwin County Multi-Hazard Mitigation Plan in accordance with the Disaster Mitigation Act of 2000; and

WHEREAS, the 2021 Baldwin County Multi-Hazard Mitigation Plan, approved pending adoption by FEMA, identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Baldwin County from the impacts of future hazards and disasters; and

WHEREAS, said mitigation plan addresses all natural hazards deemed to threaten property and persons within the unincorporated and incorporated areas of Baldwin County; and

WHEREAS, the Alabama Emergency Management Agency, acting as the State Administrative Agency for the Hazard Mitigation Grant Program, awarded a planning grant to the South Alabama Regional Planning Commission (SARPC) to fund the cost of the revision of a five-yearplan for all jurisdictions within its planning district; to include Baldwin County.

WHEREAS, the 2021 Baldwin County Hazard Mitigation plan has been prepared in accordance with FEMA guidance and DMA 2000 requirements under the direction of the Baldwin County Hazard Mitigation Planning Committee, which included representatives from all jurisdictions within Baldwin County, and with the support of the Baldwin County EMA, on behalf of all jurisdictions within Baldwin County; and

WHEREAS, the Federal planning criteria requires formal adoption of the FEMA-approved plan update by each participating jurisdiction; and

WHEREAS, under the FEMA mitigation planning guidance, it is stated that the countdown to the next five-year required revision of the plan begins once the first jurisdiction formally adopts the plan; and

WHEREAS, adoption by the Baldwin County Commission demonstrates its commitment to hazard mitigation and achieving the goals outlined in the 2021 Baldwin County Multi-Hazard Mitigation Plan; and

WHEREAS, the City of Spanish Fort wishes to demonstrate its own commitment to hazard mitigation and achieving the goals outlined in the 2021 Baldwin County Multi-Hazard-Mitigation Plan.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF SPANISH FORT, ALABAMA, AS FOLLOWS:

SECTION 1. The City Council hereby approves and adopts the <u>2021 Baldwin County - Multi-Hazard Mitigation Plan.</u>

SECTION 2. If any part, section or subdivision of this Resolution shall be held unconstitutional or invalid for any reason, such holding shall not be construed to invalidate or impair the remainder of this Resolution, which shall continue in full force and effect notwithstanding such holding.

SECTION 3. This Resolution shall become effective immediately upon its adoption or as otherwise required by state law.

ADOPTED and APPROVED this 16th day of August, 2021.

Michael M. McMillan Mayor

ATTEST:

Rebessa A. Gaines City Clerk

Resolution 21-14

A RESOLUTION ADOPTING THE 2021 Division A, Phase 2 MULTI-HAZARD MITIGATION PLAN, IN FULFILLMENT OF THE FEDERAL DISASTER MITIGATION ACT OF 2000 AND THE LOCAL MITIGATION PLAN REQUIREMENTS OF 44 C.F.R. SECTION 201.6 AND FEMA LOCAL HAZARD MITIGATION PLANNING GUIDANCE.

WHEREAS, the Baldwin County Commission recognizes the threat that natural hazards pose to people and property within Baldwin County; and

WHEREAS, the Baldwin County Commission has prepared a multi-hazard mitigation plan, hereby known as 2021 Baldwin County Multi-Hazard Mitigation Plan in accordance with the Disaster Mitigation Act of 2000; and

WHEREAS, the 2021 Baldwin County Multi-Hazard Mitigation Plan, approved pending adoption by FEMA on July 29, 2021, identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Baldwin County from the impacts of future hazards and disasters; and

WHEREAS, said mitigation plan addresses all natural hazards deemed to threaten property and persons within the unincorporated and incorporated areas of Baldwin County; and

WHEREAS, the Alabama Emergency Management, acting as the State Administrative Agency for the Hazard Mitigation Grant Program awarded a planning grant to the South Alabama Regional Planning Commission (SARPC) fund the cost of the revision of this five-year plan for all jurisdictions within its planning district; to include Baldwin County.

WHEREAS, the 2021 Baldwin County Hazard Mitigation plan has been prepared in accordance with FEMA guidance and DMA 2000 requirements under the direction of the Baldwin County Hazard Mitigation Planning Committee, which included representatives from all jurisdictions within Baldwin County, and with the support of the Baldwin County EMA, on behalf of all jurisdictions within Baldwin County; and

WHEREAS, the Federal planning criteria requires formal adoption of the FEMA approved plan update by each participating jurisdiction; and

WHEREAS, under the FEMA mitigation planning guidance, it is stated that the countdown to the next five year required revision of the plan begins once the first jurisdiction formally adopts the plan; and

WHEREAS, adoption by the Baldwin County Commission demonstrates their commitment to the hazard mitigation and achieving the goals outlined in the 2021 Baldwin County Multi-Hazard Mitigation Plan.

NOW THEREFORE, BE IT RESOLVED that the 2021 Baldwin County Multi-Hazard Mitigation Plan is hereby adopted and immediately made effective.

ADOPTED, this the9th_ day ofAugust	, 2021.
	Mayor

Attest:
Clerk



July 28, 2021

Mr. Michael Johnson Emergency Management Coordinator Alabama Emergency Management Agency Post Office Drawer 2160 Clanton, AL 35046-2160

Reference: Multi-Jurisdictional Hazard Mitigation Plan: Division A Regional, Phase 2

Dear Mr. Johnson:

This is to confirm that we have completed a Federal review of the draft Division A, Phase 2 Multi-Jurisdictional Hazard Mitigation Plan for compliance with the Federal hazard mitigation planning requirements contained in 44 CFR 201.6(b)-(d).

We have determined that the Division A, Phase 2 Multi-Jurisdictional Hazard Mitigation Plan is compliant with Federal requirements, subject to formal community adoption. Upon submittal of a copy of documentation of the adoption resolution(s) to our office, we will issue formal approval of the Division A, Phase 2 Multi-Jurisdictional Hazard Mitigation Plan. Please have Division A submit a final copy of their Phase 2 Plan, without draft notations and tracked changes.

For further information, please do not hesitate to contact Kelsey Goodman, of the Hazard Mitigation Assistance Branch, at (202) 997-7573 or Lillian Huffman, of my staff, at (770) 220-5322.

Sincerely,

Kristen M. Mattury
Kristen M. Martinenza, P.E., CFM

Branch Chief Risk Analysis FEMA Region IV

3005 Chamblee Tucker Road Atlanta, GA 30341



August 12, 2021

Mr. Michael Johnson Emergency Management Coordinator Alabama Emergency Management Agency Post Office Drawer 2160 Clanton, AL 35046-2160

Reference: Multi-Jurisdictional Hazard Mitigation Plan: Division A Regional, Phase 2

Dear Mr. Johnson:

We are pleased to inform you the Division A, Phase 2 Hazard Mitigation Plan is in compliance with the Federal hazard mitigation planning requirements resulting from the Disaster Mitigation Act of 2000, as contained in 44 CFR 201.6. Effective August 12, 2021, the plan is approved for a period of five (5) years to August 11, 2026.

This plan approval extends to the following participating jurisdiction that provided a copy of their resolution adopting the plan:

City of Bay Minette

The approved participating jurisdiction is hereby an eligible applicant through the State for the following mitigation grant programs administered by the Federal Emergency Management Agency (FEMA):

- Hazard Mitigation Grant Program (HMGP)
- Flood Mitigation Assistance (FMA)
- Building Resilient Infrastructure and Communities (BRIC)

National Flood Insurance Program (NFIP) participation is required for some programs.

We commend the participants in the Division A, Phase 2 Hazard Mitigation Plan for the development of a solid, workable plan that will guide hazard mitigation activities over the coming years. Please note that all requests for funding will be evaluated individually according to the specific eligibility and other requirements of the program under which the application is submitted. For example, a specific mitigation activity or project identified in the plan may not meet the eligibility requirements for FEMA funding, and even eligible mitigation activities are not automatically approved for FEMA funding under any of the programs.

We strongly encourage each community to perform an annual review and assessment of the effectiveness of their hazard mitigation plan; however, a formal plan update is required at least every five (5) years. We also encourage each community to conduct a plan update process within one (1) year of being included in a Presidential Disaster Declaration or of the adoption of major modifications to their local Comprehensive Land Use Plan or other plans that affect hazard mitigation or land use and development. When you prepare a comprehensive plan update, it must be resubmitted through the State as a "plan update" and is subject to

a formal review and approval process by our office. If the plan is not updated prior to the required five (5) year update, please ensure that the draft update is submitted at least six (6) months prior to expiration of this plan.

The State and the participants in the Division A, Phase 2 Hazard Mitigation Plan should be commended for their close coordination and communications with our office in the review and subsequent approval of the plan. If you or Division A have any questions or need any additional information, please do not hesitate to contact Kelsey Goodman, of the Hazard Mitigation Assistance Branch, at (202) 997-7573, or Lillian Huffman, of my staff, at (770) 220-5322.

Sincerely,

Kristen M. Mattury Kristen M. Martinenza, P.E., CFM

Branch Chief Risk Analysis FEMA Region IV

Region 4 3005 Chamblee Tucker Road Atlanta, GA 30341



October 20, 2021

Mr. Michael Johnson Emergency Management Coordinator Alabama Emergency Management Agency Post Office Drawer 2160 Clanton, AL 35046-2160

Reference: Multi-Jurisdictional Hazard Mitigation Plan: Division A, Phase 2

Dear Mr. Johnson:

This is a follow-up to our previous correspondence of May 11, 2021, in which we approved the Division A, Phase 2 Hazard Mitigation Plan and the participating communities that submitted their resolutions at the time of plan approval. We have recently received from your office the following resolutions for inclusion within this plan and subsequently have approved the communities under the approved Division A, Phase 2 Hazard Mitigation Plan, effective October 20, 2021:

- Baldwin County, Unincorporated
- City of Daphne
- City of Fairhope
- City of Foley
- City of Gulf Shores
- City of Orange Beach
- City of Robertsdale
- City of Spanish Fort
- Town of Elberta
- Town of Magnolia Springs
- Town of Perdido Beach
- Town of Silverhill
- Town of Summerdale
- Baldwin County Board of Education

The approved participating communities are hereby eligible applicants through the State for the following mitigation grant programs administered by the Federal Emergency Management Agency (FEMA):

- Hazard Mitigation Grant Program (HMGP)
- Flood Mitigation Assistance (FMA)
- Building Resilient Infrastructure and Communities (BRIC)

National Flood Insurance Program (NFIP) participation is required for some programs.

We commend the participants in the Division A, Phase 2 Hazard Mitigation Plan for the development of a solid, workable plan that will guide hazard mitigation activities over the coming years. Please note that all requests for funding will be evaluated individually according to the specific eligibility and other requirements of the program under which the application is submitted. For example, a specific mitigation activity or project identified in the plan may not meet the eligibility requirements for FEMA funding, and even eligible mitigation activities are not automatically approved for FEMA funding under any of the programs.

We strongly encourage each community to perform an annual review and assessment of the effectiveness of their hazard mitigation plan; however, a formal plan update is required at least every five (5) years. We also encourage each community to conduct a plan update process within one (1) year of being included within a Presidential Disaster Declaration or of the adoption of major modifications to their local Comprehensive Land Use Plan or other plans that affect hazard mitigation or land use and development. When the Plan is amended or revised, the amendments and revisions should be incorporated into the next plan update. If the Plan is not updated prior to the required five (5) year update, please ensure that the Draft update is submitted at least six (6) months prior to expiration of this plan approval.

If you or the participants in the Division A, Phase 2 Hazard Mitigation Plan have any further questions or need any additional information, please do not hesitate to contact Kelsey Goodman, of the Hazard Mitigation Assistance Branch, at (202) 997-7573, or Lillian Huffman, of my staff, at (770) 220-5322.

Sincerely,

Kristen M. Mattury Kristen M. Martinenza, P.E., CFM

Branch Chief Risk Analysis FEMA Region 4