

Santa Rosa County Local Mitigation Strategy

TABLE OF CONTENTS

SECTION 1: EXECUTIVE SUMMARY	1.1
Purpose.....	1.3
Plan Organization.....	1.4
SECTION 2: PLANNING PROCESS.....	2.1
Planning Area & Participation.....	2.3
The Local Mitigation Strategy Steering Committee.....	2.3
The Local Mitigation Strategy Working Committee	2.5
Public Participation.....	2.5
Local Mitigation Strategy Meetings.....	2.7
Annual Meetings.....	2.7
The 2020 Update Planning Process.....	2.7
Review and Integration with Existing Plans.....	2.8
SECTION 3: HAZARD IDENTIFICATION AND RISK ASSESSMENT.....	3.1
Introduction.....	3.3
General Description of Santa Rosa County.....	3.4
Topographic Features.....	3.5
Surface Water Resources.....	3.5
Significant Habitats.....	3.5
Climate.....	3.6
Population.....	3.10
Economic Indicators.....	3.12
<i>Income</i>	3.12
<i>Employment</i>	3.12
Land Use.....	3.12
Transportation	3.16
Hazards Analysis	3.16
Flooding (Hurricanes, Tropical Storms, and Thunderstorms).....	3.17
a. History.....	3.17
b. Probability.....	3.18
c. Vulnerability.....	3.18
d. Maximum Threat / Extent.....	3.25
Severe Storms and Lightning (Including Hurricane Winds)	3.25
a. History.....	3.25
b. Probability.....	3.34
c. Vulnerability.....	3.35
d. Maximum Threat / Extent.....	3.36
Tornadoes and Waterspouts.....	3.39
a. History.....	3.40
b. Probability.....	3.41
c. Vulnerability.....	3.41
d. Maximum Threat / Extent.....	3.42

Santa Rosa County Local Mitigation Strategy

Wildfire.....	3.43
a. History.....	3.44
b. Probability.....	3.46
c. Vulnerability.....	3.46
d. Maximum Threat / Extent.....	3.52
Heat Waves and Droughts.....	3.57
a. History.....	3.58
b. Probability.....	3.59
c. Vulnerability.....	3.59
d. Maximum Threat / Extent.....	3.60
Winter Storms and Freezes.....	3.60
a. History.....	3.62
b. Probability.....	3.63
c. Vulnerability.....	3.63
d. Maximum Threat / Extent.....	3.63
Erosion.....	3.65
<i>Inland Erosion</i>	3.65
a. History.....	3.65
b. Probability.....	3.67
c. Vulnerability.....	3.67
d. Maximum Threat / Extent.....	3.69
<i>Coastal Erosion</i>	3.74
a. History.....	3.74
b. Probability.....	3.74
c. Vulnerability.....	3.75
d. Maximum Threat / Extent.....	3.76
Tsunamis/Rogue Waves.....	3.77
a. History.....	3.78
b. Probability.....	3.78
c. Vulnerability.....	3.80
d. Maximum Threat / Extent.....	3.80
SECTION 4: MITIGATION STRATEGY	4.1
Goals and Objectives	4.3
Overview.....	4.3
Specific Measures.....	4.3
A. Prevention.....	4.3
B. Property Protection.....	4.4
C. Public Education and Awareness.....	4.4
D. Natural Resource Protection.....	4.4
E. Structural Projects.....	4.4
Structural Projects.....	4.11
A. The Planning Process.....	4.11
B. Structural Mitigation Initiatives Prioritization Process.....	4.11

Santa Rosa County Local Mitigation Strategy

C. Actions Taken After a Project is Places on the Structural Initiatives and Priorities List.....	4.12
D. Completed and Currently in Construction Structural Mitigation Initiatives..	4.12
Mitigation Initiatives.....	4.5

SECTION 5: PLAN MAINTENANCE.....	5.1
Plan Maintenance and Evaluation.....	5.3
Public Participation.....	5.5
Plan Approval and Adoption.....	5.5

SECTION 6: APPENDICES

APPENDIX A: Adoption Resolutions	
APPENDIX B: LMS Task Force Bylaws	
APPENDIX C: Steering and Working Committee Meeting Agendas	
APPENDIX D: Steering and Working Committee Minutes	
APPENDIX E: Steering and Working Committee Notices	
APPENDIX F: Flood Mitigation Plan Excerpts– Annual Evaluation Report & Plan for Public Information	

LIST OF TABLES

Table 3-1: Santa Rosa County Population	
Table 3-2: Santa Rosa County & Municipal Population Estimates	
Table 3-3: Santa Rosa County Population Projections 2015-2040	
Table 3-4: Number of Households by Income Range	
Table 3-5: Land Use Changes November 2015 – February 2020	
Table 3-6: Santa Rosa County Flood Vulnerability (including all municipalities)	
Table 3-7: Flood Vulnerability by Jurisdiction	
Table 3-8: Storm Surge Vulnerability by Jurisdiction	
Table 3-9: History of Severe Thunderstorms Resulting in Property Damage, Injury or Death	
Table 3-10 – History of Hail, High Wind and Lightening in Santa Rosa County	
Table 3-11: Category 3 Hurricane Scenario – Building Related Economic Loss Estimates (Thousands of dollars) Wind Damage Only	
Table 3-12: Category 5 Hurricane Scenario – Building Related Economic Loss Estimates (Thousands of dollars) Wind Damage Only	
Table 3-13 Enhanced Fujita Scale	
Table 3-14: History of Tornado Events	
Table 3-15: History of Reported Wildfires 2009-2013	
Table 3-16: Wildfire Vulnerability by Jurisdiction	
Table 3-16a: Communities at Risk for Wildfire	
Table 3-17: Wildland Urban Interface (WUI) Risk Index	
Table 3-18: Erodible Soils Vulnerability	
Table 4-1: Mitigation Strategy – Goals and Objectives	

Santa Rosa County Local Mitigation Strategy

Table 4-2: Mitigation Strategy – Prioritized Initiative Listing

Table 4-3: Mitigation Strategy – Under Construction/On-Going Mitigation Initiatives

Table 4-4: Mitigation Strategy – Completed/Deleted Mitigation Initiatives

Table 4-5: STAPLEE Scoring Criteria

LIST OF MAPS

Map 3-1: General Location Map – Santa Rosa County

Map 3-2: Major Drainage Features – Santa Rosa County

Map 3-3: Habitats, Parks and Managed Lands – Santa Rosa County

Map 3-4: Population Density – Santa Rosa County

Map 3-5: Future Land Use Map – Santa Rosa County

Map 3-6: Growth Patterns Based on Changes in Existing Land Use

Map 3-7: FEMA Flood Zones – Santa Rosa County

Map 3-8: Storm Surge Zones – Santa Rosa County

Map 3-9: Wind Vulnerability from HAZUS Program – Santa Rosa County

Map 3-10: Wildfire Vulnerability Map – Santa Rosa County

Map 3-11: Erodible Soils Map

Map 3-12: Landslide Sources and Coastal Locations for Inundation Mapping

Map 3-13: Maximum Wave Amplitude Probabilistic Source Transect D

Maps 3-14 through 3-16: Inundation Maps for Santa Rosa County