

# HAZARD IDENTIFICATION AND RISK ASSESSMENT (HIRA)



**2019**

# Hazard Identification and Risk Assessment

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# Hazard Identification and Risk Assessment

## Record of Revision

To maintain the highest level of all-hazard preparedness, it is necessary to review and update this document on a regular basis. Evaluations to this document will occur annually. Revision of this document occurs as the result of incidents and events, or as relevant changes to the source documentation are made. Santa Rosa County Division of Emergency Management is responsible for incorporating all changes to the document.

Date	Part Affected	Item Changed	Revised By
July 31, 2019	Entire Document	Align hazards list, add Tsunami / Rouge Wave, Critical Infrastructure Disruption, Mass Exodus/Immigration from CEMP	KB

# Hazard Identification and Risk Assessment

## Overview

This Hazard Identification and Risk Assessment (HIRA) was created with guidance from the *Comprehensive Preparedness Guide (CPG) 201, the CPG 201: Threat and Hazard Identification and Risk Assessment Guide Supplement 1 Toolkit* and is enhanced by lessons and recommendations from *Creating Your Risk Management Program*. Many of the tables and examples have been recreated from CPG 201. This document may be modified at any time by authority of the Public Safety Director in order to achieve goals of the Emergency Management Program.

## Background

### Introduction

The purpose of this Hazard Identification and Risk Assessment (HIRA) is to help whole community members to identify and understand possible vulnerabilities within the State of Florida as well as the Nation. The HIRA is part of the Presidential Directive 8/PPD-8: National Preparedness which asks multiple federal agencies to work together with the whole community to improve national preparedness, sets a common National Preparedness Goal, and takes a capabilities-based approach.

Santa Rosa County is located along the Gulf of Mexico in the panhandle of Florida. It is bordered on the west by Escambia County, the north by the state of Alabama, on the east by Okaloosa County and the Gulf of Mexico to the south. It covers a total of 1,174 square miles, of which approximately 1,017 square miles are land, and 157 are water.

For the purposes of this report, Santa Rosa County (SRC) has centered its emphasis on the Threat/Hazard Groups including:

- Active shooter/lone wolf terrorist
- Civil Disturbance
- Coastal Oil Spills
- Critical Infrastructure Disruption
- Fire
- Flooding/Storm Surge
- Hazardous Materials Incidents
- Heat Waves/Drought
- Hurricanes/Tropical Storms
- Inadequate Water Supply and/or Contamination
- Land Erosion/Expansive Soils
- Major Transportation Incidents
- Mass Exodus/Immigration
- Public Health Threats
- Terrorism/Weapons of Mass Destruction
- Thunderstorms/Lightning/Tornadoes
- Tsunami / Rouge Wave
- Winter Storm/Freeze

This report provides a step-by-step assessment for Santa Rosa County (SRC) which is a collective tool for its local partners/stakeholders to identify and assess possible gaps in the County. The use of the SRC HIRA will assist in applying for future All-Hazard grant opportunities to provide a more secure county, region, and state.

## Methodology

The Santa Rosa County Comprehensive Emergency Management Plan (SRC CEMP) was developed using generally accepted management principles and practices for emergency management with input from preparedness organizations, such as the Santa Rosa County Disaster Managers Group, the Santa Rosa County Local Mitigation Task Force, and a number of individuals. This method helped to address the

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coordination of various preparedness activities among jurisdiction, across jurisdictions and with private organizations.

The Santa Rosa County Hazard Identification and Risk Assessment (HIRA) is the guiding document for identifying and assessing natural and human-caused hazards for planning, response, recovery, and mitigation activities. Natural hazards are addressed in detail in the Local Mitigation Strategy. The Comprehensive Emergency Management Plan, Part 1 Basic Plan addresses human-caused and technical hazards in detail.

Maintenance and evaluation of this document is the responsibility of the Division of Emergency Management. The HIRA should be reviewed annually and updated as needed, or when necessitated by major disasters or catastrophic events. This document may be modified at any time by authority of the Director of Public Safety to achieve goals of the emergency management program.

## Santa Rosa County Description

There are three incorporated municipalities with Santa Rosa County, including the cities of Gulf Breeze and Milton, and the Town of Jay. The City of Milton serves as the county seat. Unincorporated communities within Santa Rosa County include Avalon Beach-Mulat, Allentown, Bagdad, Berrydale, Brownsdale, Chumuckla, Dickerson City, Dicksonville, East Milton, Fidelis, Florida Town, Harold, Holley, Midway, Morristown, Mt. Carmel, Munson, Navarre, Navarre Beach, New York, Pace, Pea Ridge, Sellersville, Skyline, Wallace and Ward Basin. Military lands compose a small portion of the lands used within Santa Rosa county and can be found just off the Hwy 90 corridor. Also found along the Hwy 90 corridor are commercial, industrial and residential land uses. The southern portions of Santa Rosa County along Gulf Breeze and Navarre are primarily zoned for residential uses with a commercial corridor following Hwy 98.

## Threat and Hazard Identification and Risk Assessment

### Step 1: Identify the Threats and Hazards of Concern

The following natural hazards, technological accidents, and human-caused threat types has been identified by our stakeholders as the hazards/threats faced by our community and will be the focus of this analysis and report.

Santa Rosa County face a variety of threats and hazards that can be the result of natural, technological, or human-caused incidents. Table 2 provides examples of the types of threats and hazards.

- Natural hazards are those resulting from acts of nature, such as hurricanes, earthquakes, or tornadoes and disease outbreaks or epidemics.
- Technological hazards are those resulting from accidents or the failures of systems and structures, such as hazardous materials spills or dam failures.
- Threats or human-caused incidents are those resulting from the intentional actions of an adversary, such as a threatened or actual chemical or biological attack or cyber event.

The focus in this step is on deciding what should or should not be on the list. For example, a coastal jurisdiction in Oregon might include a tsunami while an inland jurisdiction that would not be directly impacted may not.

## Hazard Identification and Risk Assessment

Natural	Technological	Human-caused
Resulting from acts of nature	Involves accidents or the failures of systems and structures	Caused by the intentional actions of an adversary
<ul style="list-style-type: none"> <li>• Fire</li> <li>• Flooding /Storm Surge</li> <li>• Heat Waves/Drought</li> <li>• Hurricanes/Tropical Storms</li> <li>• Land Erosion/Expansive Soils</li> <li>• Public Health Threats</li> <li>• Thunderstorms/Lightning/Tornadoes</li> <li>• Tsunamis/Rogue Waves</li> <li>• Winter Storms, Freeze</li> </ul>	<ul style="list-style-type: none"> <li>• Coastal Oil Spills</li> <li>• Hazardous Materials Incidents</li> <li>• Inadequate Water Supply and/or Contamination</li> <li>• Major Transportation Incidents</li> </ul>	<ul style="list-style-type: none"> <li>• Active Shooter/Lone Wolf</li> <li>• Civil Disturbance</li> <li>• Critical Infrastructure Disruption</li> <li>• Mass Exodus/Immigration</li> <li>• Terrorism/Weapons of Mass Destruction</li> </ul>

### Step 2: Give the Threats and Hazards Context

The following section provides descriptions of each threat and hazard, including when and where it might occur, and threat likelihood information.

Threat/Hazard Group	Threat/Hazard Type
<b>Natural</b>	Fire
<b>Description:</b> A lightning strike sparks a wildfire in a dense forest area, affecting travel, industry, and daily life in the regions for weeks. This can also be manmade, if an arsonist starts a fire in a field near an interstate. Smoke mixes with dense fog, causing sudden and unexpected limits to visibility, resulting in a multiple vehicle crash.	
<b>Natural</b>	Flooding / Storm Surge
<b>Description:</b> A slow moving rain hovers over the panhandle dropping rain in areas that usually do not see a lot, poor drainage due to previous rains allows for water to collect. Rain from upstream floods rivers and creeks. A 500-year flood incident.	
<b>Natural</b>	Heat Waves/Drought
<b>Description:</b> Long periods of heat can cause drought. Heat can also burden electrical infrastructure to the point of sporadic outages which can be a health and safety risk for citizens, as well as disrupting businesses.	
<b>Natural</b>	Hurricanes/Tropical Storms
<b>Description:</b> Category 4 Hurricane makes landfall in the panhandle west of Santa Rosa County moving north to south. During high tide/hurricane spawns tornados, significant wind damage, and surge flooding.	
<b>Natural</b>	Land Erosion/Expansive Soils
<b>Description:</b> Wearing away of land from any source that may affect infrastructure, have an economic impact, or endanger life and or property.	
<b>Natural</b>	Public Health Threats
<b>Description:</b> A rapidly spreading disease that occurs suddenly and unexpectedly in the general population within a given geographical area, affecting significantly large number in any season. Also, includes foreign introduced diseases due to Florida being an international travel hub. Also, includes a biological attack using aerosol anthrax occurs in a populated area during the flu season. The attacks have occurred at theme parks, tourist attractions and special events.	
<b>Natural</b>	Thunderstorms/Lightning/Tornado
<b>Description:</b> Thunderstorms rated as severe by NWS Mobile can bring a lot of rain which can cause flooding, lighting which can affect infrastructure, and straight-line winds that can blow over trees.	

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Lightning can cause major damage to structures, cause infrastructure to lose power, and can cause death to those in standing water or open areas. Multiple EF 2/3 tornados in the middle of the night throughout the panhandle; with widespread Mass Casualties and Property Damage.	
<b>Natural</b>	Tsunami / Rogue Waves
<b>Description:</b> Powerful waves created as a consequence of another non-meteorological, geologic in nature, hazard such as earthquakes, underwater landslides, volcanic eruptions, or other displacements of large amounts of water under the sea. As the waves travel towards land, they build up to higher heights as the depth of the ocean decreases and appear as walls of water or turbulent waves that resemble hurricane storm surge.	
<b>Natural</b>	Winter Storm, Freeze
<b>Description:</b> Ice and snow can cause significant damage to infrastructure and private property, especially in Florida where this weather is an anomaly. Ice can disrupt school and work schedules, as well as be dangerous to the homeless and heatless in the community.	
<b>Technological</b>	Coastal Oil Spills
<b>Description:</b> As seen during Deepwater Horizon, a catastrophic and unstoppable oil leak in the Gulf of Mexico can adversely affect the health and welfare of the population, as well as the economic stability of the county.	
<b>Technological</b>	Hazardous Materials Incidents
<b>Description:</b> A train derailment containing large quantities of mixed hazardous materials occurring in SRC can prompt immediate evacuation and overwhelm Law Enforcement, Fire Rescue, Communication Systems, and Healthcare. This could also be a human-caused disaster if intentional. Also, the deliberate release of high amounts of chemicals from a train derailment occurring in SRC can prompt immediate evacuation and overwhelm Law Enforcement, Fire Rescue, Communication Systems, and Healthcare.	
<b>Technological</b>	Inadequate Water Supply and/or Contamination
<b>Description:</b> A long term drought can cause significant hardship on farming communities and those businesses that serve tourists. In the south of the county the water is brought in from the middle part of the county. Any disruption of this system can have negative health effects and disrupt the economy. This can be a human caused disaster as well.	
<b>Technological</b>	Major Transportation Incidents
<b>Description:</b> Train derailment occurs in a large densely populated business or residential area. During an evacuation or peak travel time a major transportation incident occurs on a major roadway or causeway that renders a section of the road impassible. This can be a human caused disaster as well if intentional.	
<b>Human-caused</b>	Active Shooter/Lone Wolf Terrorist
<b>Description:</b> A disgruntled employee or a disturbed individual suffering from paranoia, or delusions, can easily make for a bad day if they decide to take their anger/frustration out on a group of unsuspecting citizens at a park, store, school, or other gathering place. This can be defined as a crime or act of terrorism depending on the motivations, but regardless, the scar on the psyche of the community will be present, and casualties will be dependent on the mechanism of attack, gun or bomb.	
<b>Human-caused</b>	Civil Disturbance
<b>Description:</b> Civil disturbances can happen for a number of political or social reasons and can be disruptive for first responders as well as citizens. Such disturbances can shut down business and be destructive.	
<b>Human- Caused</b>	Critical Infrastructure Failure
<b>Description:</b> Some form of infrastructure affected by some cause that creates damage and potential death.	
<b>Human-caused</b>	Mass Exodus / Immigration
<b>Description:</b> Refers to the migration of large groups of people from one geographical area to another. Mass migration is distinguished from individual or small-scale migration; and also from seasonal migration, which may occur on a regular basis.	
<b>Human-caused</b>	Terrorism/Weapons of Mass Destruction
<b>Description:</b> A radiological attack using a dispersal device explodes in a populated area during tourist	

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season. A chemical attack like the Sarin attack on the Tokyo subway occurs in a populated area. An explosive device like the Oklahoma City bomb is set off in a heavily populated area.

### Step 3: Examine the Core Capabilities Using the Threats and Hazards

Using the core capabilities to assess how each threat and hazard may impact the community, this section addresses Risk Results for Santa Rosa County (if available), Desired Outcomes, and Estimated Impacts of Core Capabilities. Risk Results illustrate how different threats and hazards identified above may impact Santa Rosa County considering asset risk and/or population risk.

Desired Outcomes are identified for each core capability. These were developed with input from the Disaster Managers Group and the Local Mitigation Strategy Task Force and are informed by the National Preparedness Goal.

	Core Capability	Desired Outcome
<b>Common</b>	Planning	Annually maintain an all-hazard plan that addresses all of the mission areas, to include annexes as required. Annually maintain Continuity of Operations (COOP)/Continuity of Government (COG) plan for all critical infrastructure.
	Public Information and Warning	Provide information in a timely manner, consistent with the threat or hazard, to enable people to take appropriate protective measures.
	Operational Coordination	Establish and maintain unified and coordinated operational structure and process in the impacted area within 1st hour of a potential or actual incident.
<b>Prevention</b>	Forensics and Attribution	Prioritize 100% of evidence collection and analysis to assist in preventing initial or follow-on terrorist acts.
<b>Prevention and Protection</b>	Intelligence and Information Sharing	Within the 1st hour of an incident, begin to share relevant, timely, and actionable information and analysis with Federal, State, local, and private partners with appropriate classified/unclassified products in accordance with established protocols.
	Interdiction and Disruption	Interdict 100% of specific conveyances, cargo, and persons associated with an imminent threat to the State of Florida, based on available resources
	Screening, Search, and Detection	Screen 100% of targeted cargo, conveyances, mail, baggage, and people associated with an imminent terrorist threat or act using technical, non-technical, intrusive, or non-intrusive means.
<b>Protection</b>	Access Control and Identity Verification	Ensure 100% verification of identity to authorize, grant, or deny physical and cyber access to specific locations, information, and networks
	Cybersecurity	Detect 100% of malicious activity directed against all critical infrastructure, key resources, and networks.
	Physical Protective Measures	Protect 100% of people, structures, materials, products, and systems of key operational activities and critical infrastructure sectors against an identified or perceived threat.
	Risk Management for Protection Programs and Activities	Complete risk assessments for 100% of prioritized critical infrastructure and key resources (CI/KR) assets.
	Supply Chain Integrity and Security	Secure all identified priority supply nodes, transit methods, and materials.

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<b>Mitigation</b>	Community Resilience	Annually maintain and implement 100% risk mitigation plans for communities with highest risk through partnerships with whole community representatives. (Based on available funding)
	Long-term Vulnerability Reduction	Reduce the long-term vulnerability of all identified critical infrastructure and systems and community features that pose an increased risk to a similar incident
	Risk and Disaster Resilience Assessment	Annually identify, analyze and maintain a risk assessment that includes information about localized vulnerabilities and consequences for the State of Florida.
	Threats and Hazard Identification	Annually identify State of Florida threats and hazards in collaboration with whole community partners and incorporate into analysis and planning process.
<b>Response</b>	Critical Transportation	During the first hour of an incident, begin to establish physical access through appropriate transportation corridors and deliver required resources in an effort to save lives and to meet the needs of disaster survivors.
	Environmental Response/ Health Safety	During the first hour of an incident, begin to conduct health and safety hazard assessments and disseminate guidance and resources, including the deployment of hazardous materials teams, to support environmental health and safety actions for response personnel and the affected population and area.
	Fatality Management Services	During the first 24 hours of an incident, begin to conduct operations to recover fatalities
	Mass Care Services	During the first 6 hours of an incident, begin to move and deliver resources and capabilities to meet the needs of disaster survivors, including individuals with access and functional needs and others who may be considered at-risk.
	Mass Search and Rescue Operations	During the first hour of an incident, begin to conduct search and rescue operations to locate and rescue persons in distress.
	On-Scene Security and Protection	Within the first 24 hours of an incident, begin to establish a safe and secure environment for the affected area.
	Operational Communications	During the first hour of an incident, ensure that the capacity to communicate with both the emergency response community and the affected populations is sufficient; establish interoperable voice and data communications between responders.
	Public and Private Services and Resources	During the first 6 hours of an incident, mobilize and deliver governmental, nongovernmental, and private- sector resources within and outside the affected area to save lives, sustain lives, meet basic human needs, stabilize the incident, and transition to the recovery phase, which may entail moving and delivering resources and services to disaster survivors.
	Public Health and Medical Services	During the first 72 hours of an incident, complete triage and initial stabilization of casualties and begin definitive care for those likely to survive their injuries.
	Situational Assessment	Within the first hour of an incident, begin to deliver information sufficient to inform decision making regarding immediate life-saving and -sustaining activities and engage governmental, private, and civic-sector resources within and outside of the affected area to meet basic human needs and

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		stabilize the incident.
<b>Response and Recovery</b>	Infrastructure Systems	During the first 6 hours of an incident, decrease and stabilize immediate infrastructure threats to the affected population, to include survivors in the heavily- damaged zone, nearby communities that may be affected by cascading effects, and mass care support facilities and evacuation processing centers with a focus on life-sustainment and congregate care services over the impact area to the affected population. Within 30 days of an incident, develop a plan with a specified timeline for redeveloping community infrastructure to contribute to resiliency, accessibility, and sustainability.
	Economic Recovery	Within 180 days of an incident, develop a plan with whole community partners, with a specified timeline for redeveloping community infrastructure to contribute to resiliency, accessibility, and sustainability.
<b>Recovery</b>	Health and Social Services	Within 72 hours of an incident, restore basic health and social services functions.
	Housing	Within 30 days of an incident, assess preliminary housing impacts and needs, identify currently available options for temporary housing, and plan for permanent housing.
	Natural and Cultural Resources	Within 180 days of an incident, mitigate impacts, stabilize natural and cultural resources, and conduct a preliminary assessment of the impacts that identifies protections needed in place during the various stages of incident management—from stabilization through recovery.

**Estimated Impacts of Core Capabilities:** Estimate the impacts of each threat and hazard type by core capability.

Core Capability:	Planning
Active Shooter / Lone Wolf	Execute All Hazards Plans and Conduct Incident Action Planning.
Civil Disturbance	Execute All Hazards Plans and Conduct Incident Action Planning.
Coastal Oil Spills	Execute All Hazards Plans and Conduct Incident Action Planning.
Critical Infrastructure Disruption	Execute All Hazards Plans and Conduct Incident Action Planning.
Fire	Execute All Hazards Plans and Conduct Incident Action Planning.
Flooding/Storm Surge	Execute All Hazards Plans and Conduct Incident Action Planning.
Hazardous Materials	Execute All Hazards Plans and Conduct Incident Action Planning.
Heat Wave/Drought	Execute All Hazards Plans and Conduct Incident Action Planning.
Hurricanes/Tropical Storms	Execute All Hazards Plans and Conduct Incident Action Planning.
Inadequate Water Supply and/or Contamination	Execute All Hazards Plans and Conduct Incident Action Planning.
Land Erosion/Expansive Soils	Execute All Hazards Plans and Conduct Incident Action Planning.
Major Transportation Incidents	Execute All Hazards Plans and Conduct Incident Action Planning.
Mass Exodus/Immigration	Execute All Hazards Plans and Conduct Incident Action Planning.
Public Health Threat	Execute All Hazards Plans and Conduct Incident Action Planning.
Terrorism / WMD	Execute All Hazards Plans and Conduct Incident Action Planning.
Thunderstorms / Lightning / Tornadoes	Execute All Hazards Plans and Conduct Incident Action Planning.
Tsunami / Rogue Waves	Execute All Hazards Plans and Conduct Incident Action Planning.
Winter Storm / Freeze	Execute All Hazards Plans and Conduct Incident Action Planning.

Core Capability:	Public Information and Warning
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Active Shooter / Lone Wolf	Provide emergency information warning to residents in the projected areas of impact. Assure temporary and tourist populations are informed
Civil Disturbance	Provide emergency information warning to residents in the projected areas of impact. Assure temporary and tourist populations are informed
Coastal Oil Spills	Provide emergency information warning to residents in the projected areas of impact. Assure temporary and tourist populations are informed
Critical Infrastructure Disruption	Provide emergency information warning to residents in the projected areas of impact.
Fire	Provide emergency information warning to residents in the projected areas of impact. Assure temporary and tourist populations are informed
Flooding / Storm Surge	Provide emergency information warning to residents in the projected areas of impact. Assure temporary and tourist populations are informed
Hazardous Materials	Provide Public Safety Bulletins via radio/TV. Coordinate messages through JIC/JIS and IC. Provide information on downwind evacuation and protection in place.
Heat Wave/Drought	Provide emergency information warning to residents in the projected areas of impact. Assure temporary and tourist populations are informed
Hurricanes/Tropical Storms	Provide emergency information warning to residents in the projected areas of impact. Assure temporary and tourist populations are informed
Inadequate Water Supply and/or Contamination	Provide emergency information warning to residents in the projected areas of impact. Assure temporary and tourist populations are informed
Land Erosion/Expansive Soils	Provide Public Safety Bulletins via radio/TV.
Major Transportation Incidents	Provide emergency information warning to residents in the projected areas of impact. Assure temporary and tourist populations are informed
Mass Exodus/Immigration	Provide emergency information warning to residents in the projected areas of impact. Assure temporary and tourist populations are informed
Public Health Threat	Provide emergency information warning to residents in the projected areas of impact. Assure temporary and tourist populations are informed
Terrorism / WMD	Provide emergency information warning to residents in the projected areas of impact. Assure temporary and tourist populations are informed
Thunderstorms / Lightning / Tornadoes	Provide emergency information warning to residents in the projected areas of impact. Assure temporary and tourist populations are informed
Tsunami / Rogue Waves	Provide emergency information warning to residents in the projected areas of impact. Assure temporary and tourist populations are informed
Winter Storm / Freeze	Provide emergency information warning to residents in the projected areas of impact. Assure temporary and tourist populations are informed

<b>Core Capability:</b>	<b>Operational Coordination</b>
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Active Shooter / Lone Wolf	Work with Local partners to eliminate duplication of effort and provide a response through use of a Unified Command Structure.
Civil Disturbance	Work with State, and Local partners to eliminate duplication of effort and provide a response through use of a Unified Command Structure.
Coastal Oil Spills	Work with Federal, State, and Local partners to eliminate duplication of effort and provide a response through use of a Unified Command Structure.
Critical Infrastructure Disruption	Work with Local partners to eliminate duplication of effort and provide a response through use of a Unified Command Structure.
Fire	Work with Federal, State, and Local partners to eliminate duplication of effort and provide a response through use of an Unified Command Structure.
Flooding/Storm Surge	Work with Federal, State, and Local partners to eliminate duplication of effort and provide a response through use of an Unified Command Structure.
Hazardous Materials	Unified command structure needed, and organized dependent on the source of the HAZMAT
Heat Wave/Drought	Work with Federal, State, and Local partners to eliminate duplication of effort and provide a response through use of a Unified Command Structure.
Hurricanes/Tropical Storms	Work with Federal, State, and Local partners to eliminate duplication of effort and provide a response through use of an Unified Command Structure
Inadequate Water Supply and/or Contamination	Work with Federal, State, and Local partners to eliminate duplication of effort and provide a response through use of an Unified Command Structure.
Land Erosion/Expansive Soils	Work with Federal, State, and Local partners to eliminate duplication of effort and provide a response through use of an Unified Command Structure.
Major Transportation Incidents	Work with Federal, State, and Local partners to eliminate duplication of effort and provide a response through use of an Unified Command Structure.
Mass Exodus/Immigration	Work with Federal, State, and Local partners to eliminate duplication of effort and provide a response through use of an Unified Command Structure.
Public Health Threat	Work with Federal, State, and Local partners to eliminate duplication of effort and provide a response through use of an Unified Command Structure.
Terrorism / WMD	Work with Federal, State, and Local partners to eliminate duplication of effort and provide a response through use of an Unified Command Structure.
Thunderstorms / Lightning / Tornadoes	Work with Federal, State, and Local partners to eliminate duplication of effort and provide a response through use of an Unified Command Structure.
Tsunami / Rogue Waves	Work with Federal, State, and Local partners to eliminate duplication of effort and provide a response through use of an Unified Command Structure
Winter Storm / Freeze	Work with Federal, State, and Local partners to eliminate duplication of effort and provide a response through use of an Unified Command Structure.

<b>Core Capability:</b>	<b>Forensics and Attribution</b>
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Active Shooter / Lone Wolf	SRSO will coordinate with FDLE and FBI if deemed needed/ This could overwhelm local resources
Civil Disturbance	SRSO will handle and coordinate with FDLE and FBI needed
Coastal Oil Spills	No local jurisdiction so USCG is the lead
Critical Infrastructure Disruption	Could be beyond local ability and would rely on state assets
Fire	FFS and State Fires Marshall needed to respond.
Flooding/Storm Surge	NWS provides intel
Hazardous Materials	State Environmental Protection Department and Federal Environmental Protection needed to respond. Call for additional equipment/manpower from other regional HazMat teams, National Guard, and CSTs.
Heat Wave/Drought	NWS provides intel
Hurricanes/Tropical Storms	NWS provides intel
Inadequate Water Supply and/or Contamination	State Environmental Protection Department and Federal Environmental Protection needed to respond. Call for additional equipment/manpower from other regional HazMat teams, National Guard, and CSTs.
Land Erosion/Expansive Soils	State Environmental Protection Department and Federal Environmental Protection requested as needed
Major Transportation Incidents	Local LE will handle. FDOT and FHP could be needed
Mass Exodus/Immigration	
Public Health Threat	DOH will coordinate and be the lead in unified command
Terrorism / WMD	State Environmental Protection Department and Federal Environmental Protection needed to respond. Call for additional equipment/ manpower from other regional HazMat teams, National Guard, and CSTs.
Thunderstorms / Lightning / Tornadoes	NWS provides intel
Tsunami / Rogue Waves	NWS provides intel
Winter Storm / Freeze	NWS provides intel

Core Capability:	Intelligence and Information Sharing
Active Shooter / Lone Wolf	Work with State and Local Law Enforcement to gather, and disburse accurate information through JIC
Civil Disturbance	Work with State and Local Law Enforcement to gather, and disburse accurate information through JIC
Coastal Oil Spills	Work with CDC, EPA, DEP and State and Local Health Departments to gather, and disburse accurate information through JIC.
Critical Infrastructure Disruption	Work with electric and water franchises to disburse accurate information thru JIC.
Fire	Work with Florida Fire Service and the National Weather Service to gather most relevant and up to date weather and fire conditions through JIC.
Flooding/Storm Surge	Work with the NWS to gather most relevant and up to date information.
Hazardous Materials	Information concerning evacuation areas and potential movement of toxic cloud given out via JIC. Poison Control, CDC, State and Local Health departments may share additional information with healthcare providers.
Heat Wave/Drought	Work with the NWS to gather most relevant and up to date information.
Hurricanes/Tropical Storms	Work with the NWS to gather most relevant and up to date information.

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Inadequate Water Supply and/or Contamination	Work with CDC and State and Local Health Departments to gather and disburse accurate information through JIC.
Land Erosion/Expansive Soils	Information concerning potential evacuation areas
Major Transportation Incidents	Work with DOT and NWS to gather most relevant and up-to-date weather information.
Mass Exodus/Immigration	Work with State and Local Law Enforcement to gather, and disburse accurate information through JIC
Public Health Threat	Work with CDC and State and Local Health Departments to gather and disburse accurate information through JIC.
Terrorism / WMD	Information concerning evacuation areas and potential movement of toxic cloud given out via JIC. Poison Control, CDC, State and Local Health departments may share additional information with healthcare providers.
Thunderstorms / Lightning / Tornadoes	Work with the NWS to gather most relevant and up to date information.
Tsunami / Rogue Waves	Work with the NWS to gather most relevant and up to date information.
Winter Storm / Freeze	Work with the NWS to gather most relevant and up to date information.

Core Capability:	Interdiction and Disruption
Active Shooter / Lone Wolf	Coordinate response with LE and activate MOU if needed
Civil Disturbance	Coordinate response with LE and activate MOU if needed
Coastal Oil Spills	
Critical Infrastructure Disruption	
Fire	
Flooding/Storm Surge	
Hazardous Materials	All transportation and communication in and around SRC is disrupted. Local Public Service is overwhelmed. Outside resources are needed to maintain daily level of response
Heat Wave/Drought	
Hurricanes/Tropical Storms	
Inadequate Water Supply and/or Contamination	
Land Erosion/Expansive Soils	
Major Transportation Incidents	
Mass Exodus/Immigration	
Public Health Threat	
Terrorism / WMD	All transportation and communication in and around SRC is disrupted. Local Public Service is overwhelmed. Outside resources are needed to maintain daily level of response
Thunderstorms / Lightning / Tornadoes	
Tsunami / Rogue Waves	
Winter Storm / Freeze	

Core Capability:	Screening, Search, and Detection
Active Shooter / Lone Wolf	
Civil Disturbance	
Coastal Oil Spills	
Critical Infrastructure Disruption	
Fire	
Flooding/Storm Surge	

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Hazardous Materials	Local specialty teams i.e.. HM, and USAR are overtaxed working to identify hazards, and locating victims. Law enforcement is overwhelmed establishing a perimeter and assisting evacuation that changes based on wind patterns and environmental changes.
Heat Wave/Drought	
Hurricanes/Tropical Storms	
Inadequate Water Supply and/or Contamination	
Land Erosion/Expansive Soils	
Major Transportation Incidents	
Mass Exodus/Immigration	
Public Health Threat	Beyond local level to screen and detect outbreak in all citizens and visitors.
Terrorism / WMD	Local specialty teams i.e.. HM, and USAR are overtaxed working to identify hazards, and locating victims. Law enforcement is overwhelmed establishing a perimeter and assisting evacuation that changes based on wind patterns and environmental changes.
Thunderstorms / Lightning / Tornadoes	
Tsunami / Rogue Waves	
Winter Storm / Freeze	

Core Capability:	Access Control and Identity Verification
Active Shooter / Lone Wolf	Access to the scene needs to be first responders or other emergency personnel.
Civil Disturbance	Access to the scene needs to be first responders or other emergency personnel.
Coastal Oil Spills	Local Health Department posts health warnings per state guidance.
Critical Infrastructure Disruption	Access to the scene needs to be first responders or other emergency personnel.
Fire	Up to 25% of infrastructure facilities will be impacted.
Flooding/Storm Surge	Up to 25% of infrastructure facilities will be impacted.
Hazardous Materials	Access control into perimeter is slow to be established. ID of fatalities and wounded inside the perimeter is delayed.
Heat Wave/Drought	
Hurricanes/Tropical Storms	Up to 25% of infrastructure facilities will be impacted.
Inadequate Water Supply and/or Contamination	
Land Erosion/Expansive Soils	Access control into perimeter
Major Transportation Incidents	Access to the scene needs to be first responders or other emergency personnel.
Mass Exodus/Immigration	Access to the scene needs to be first responders or other emergency personnel.
Public Health Threat	Access control to disaster medicine and medical supplies.
Terrorism / WMD	Access control into perimeter is slow to be established. ID of fatalities and wounded inside the perimeter is delayed.
Thunderstorms / Lightning / Tornadoes	Up to 25% of infrastructure facilities will be impacted.
Tsunami / Rogue Waves	Up to 25% of infrastructure facilities will be impacted.
Winter Storm / Freeze	Up to 25% of infrastructure facilities will be impacted.

Core Capability:	Cybersecurity
Active Shooter / Lone Wolf	
Civil Disturbance	This would put a heightened emphases on cyber
Coastal Oil Spills	

## Hazard Identification and Risk Assessment

Critical Infrastructure Disruption	Access control into perimeter is slow to be established. ID of victims inside the perimeter is delayed. Access to the facilities needs to be first responders or other emergency personnel.
Fire	
Flooding/Storm Surge	
Hazardous Materials	
Heat Wave/Drought	
Hurricanes/Tropical Storms	
Inadequate Water Supply and/or Contamination	
Land Erosion/Expansive Soils	
Major Transportation Incidents	Access control into perimeter is slow to be established. ID of victims inside the perimeter is delayed. Access to the facilities needs to be first responders or other emergency personnel.
Mass Exodus/Immigration	Access control into perimeter is slow to be established. ID of victims inside the perimeter is delayed. Access to the facilities needs to be first responders or other emergency personnel.
Public Health Threat	Access control into perimeter is slow to be established. ID of victims inside the perimeter is delayed. Access to the facilities needs to be first responders or other emergency personnel.
Terrorism / WMD	Access control into perimeter is slow to be established. ID of victims inside the perimeter is delayed. Access to the facilities needs to be first responders or other emergency personnel.
Thunderstorms / Lightning / Tornadoes	
Tsunami / Rogue Waves	
Winter Storm / Freeze	

Core Capability:	Physical Protective Measures
Active Shooter / Lone Wolf	Ensure safety of critical infrastructure and personnel in impacted area
Civil Disturbance	Ensure safety of critical infrastructure and personnel in impacted area
Coastal Oil Spills	
Critical Infrastructure Disruption	Ensure safety of other critical infrastructure and personnel in impacted area
Fire	Protect essential critical infrastructure facilities
Flooding/Storm Surge	Harden essential critical infrastructure facilities.
Hazardous Materials	Leaking and possibly burning chemicals provide a continuously moving target for protective measures.
Heat Wave/Drought	
Hurricanes/Tropical Storms	Harden essential critical infrastructure facilities.
Inadequate Water Supply and/or Contamination	Leaking and possibly burning chemicals provide a continuously moving target for protective measures.
Land Erosion/Expansive Soils	Harden essential critical infrastructure facilities.
Major Transportation Incidents	Ensure safety of critical infrastructure and personnel in impacted area
Mass Exodus/Immigration	
Public Health Threat	Security to PODS. Security at healthcare facilities increased. Crowd and traffic control at PODS.
Terrorism / WMD	Leaking and possibly burning chemicals provide a continuously moving target for protective measures. Need to request SNS and vendor mgmt. inventory; strain on staffing at PODs and all health care facilities.
Thunderstorms / Lightning / Tornadoes	Harden essential critical infrastructure facilities.

## Hazard Identification and Risk Assessment

Tsunami / Rogue Waves	Harden essential critical infrastructure facilities.
Winter Storm / Freeze	Ensure safety of critical infrastructure and personnel in impacted area.

Core Capability:	Risk Management for Protection Programs and Activities
Active Shooter / Lone Wolf	
Civil Disturbance	Up to 25% of critical infrastructure facilities in the impacted area are damaged.
Coastal Oil Spills	Up to 25% of critical infrastructure facilities in the impacted area are affected
Critical Infrastructure Disruption	Up to 25% of critical infrastructure facilities in the impacted area are affected
Fire	Up to 25% of critical infrastructure facilities and communication systems will be impacted.
Flooding/Storm Surge	At least 25% of critical infrastructure facilities and communication systems will be impacted.
Hazardous Materials	Up to 25% of critical infrastructure facilities in the impacted area are damaged or affected.
Heat Wave/Drought	At least 25% of critical infrastructure facilities and communication systems will be impacted.
Hurricanes/Tropical Storms	At least 25% of critical infrastructure facilities and communication systems will be impacted.
Inadequate Water Supply and/or Contamination	
Land Erosion/Expansive Soils	
Major Transportation Incidents	Up to 25% of critical infrastructure facilities in the impacted area are damaged.
Mass Exodus/Immigration	
Public Health Threat	POD staffing and health care vendor management. Need to request SNS and vendor mgmt. inventory; strain on staffing at PODs and all health care facilities.
Terrorism / WMD	Limited levels of PPE and personnel; inability to provide adequate decon and patient monitoring; inability to communicate; limited number of SMEs; 100% of traffic control impacted; need to request SNS and vendor management inventory.
Thunderstorms / Lightning / Tornadoes	At least 25% of critical infrastructure facilities and communication systems will be impacted.
Tsunami / Rogue Waves	At least 25% of critical infrastructure facilities and communication systems will be impacted.
Winter Storm / Freeze	At least 25% of critical infrastructure facilities and communication systems will be impacted.

Core Capability:	Supply Chain Integrity and Security
Active Shooter / Lone Wolf	Supply chain along with transportation routes in the area disrupted.
Civil Disturbance	Supply chain and mutual aid are delayed. Limited security resources available.
Coastal Oil Spills	
Critical Infrastructure Disruption	Supply chain along with transportation routes in the area disrupted.
Fire	Possible closure of transportation systems located near or around incident.
Flooding/Storm Surge	100% of transportation systems affected. Probable evacuation from coast and areas prone to flooding.

## Hazard Identification and Risk Assessment

Hazardous Materials	Possible closure of transportation systems located near or around incident.
Heat Wave/Drought	
Hurricanes/Tropical Storms	100% of transportation systems affected. Probable evacuation from coast and areas prone to flooding.
Inadequate Water Supply and/or Contamination	
Land Erosion/Expansive Soils	Possible closure of transportation systems located near erosion
Major Transportation Incidents	Supply chain along with transportation routes in the area disrupted.
Mass Exodus/Immigration	
Public Health Threat	Need for security once medication received to impacted areas. Individual vendors may refuse to deliver to affected areas.
Terrorism / WMD	Possible closure of transportation systems located near or around incident. Need for security once medication is received to impacted area; individuals may refuse to deliver supplies/resources to infected area.
Thunderstorms / Lightning / Tornadoes	Probable evacuation from areas prone to flooding
Tsunami / Rogue Waves	100% of transportation systems affected. Probable evacuation from coast and areas prone to flooding.
Winter Storm / Freeze	Possible closure of transportation systems located near or around incident.

Core Capability:	Community Resilience
Active Shooter / Lone Wolf	
Civil Disturbance	
Coastal Oil Spills	
Critical Infrastructure Disruption	
Fire	of medical facilities, commercial structures, and residential structures impacted.
Flooding/Storm Surge	50% of medical facilities, commercial structures, and residential structures impacted.
Hazardous Materials	All health care services impacted; PODs will be needed throughout the region; public education will be required; contamination of structures within the
Heat Wave/Drought	
Hurricanes/Tropical Storms	50% of medical facilities, commercial structures, and residential structures impacted.
Inadequate Water Supply and/or Contamination	
Land Erosion/Expansive Soils	
Major Transportation Incidents	Injuries/fatalities to populations in impacted areas.
Mass Exodus/Immigration	
Public Health Threat	Health care services impacted; PODs needed throughout region; public education required;
Terrorism / WMD	Once the contamination is contained and cleaned up, the community will return to a pre- event state.
Thunderstorms / Lightning / Tornadoes	50% of medical facilities, commercial structures, and residential structures impacted.
Tsunami / Rogue Waves	50% of medical facilities, commercial structures, and residential structures impacted.
Winter Storm / Freeze	

## Hazard Identification and Risk Assessment

Core Capability:	Long-term Vulnerability Reduction
Active Shooter / Lone Wolf	
Civil Disturbance	Up to 25% of critical infrastructure facilities in the impacted area are damaged.
Coastal Oil Spills	Environmental contamination; public perception viability of beaches. Once the contamination contained and cleaned up, the community will rapidly return to a pre-event state.
Critical Infrastructure Disruption	
Fire	At least 25% of critical infrastructure facilities in the impacted area are damaged.
Flooding/Storm Surge	Up to 25% of critical infrastructure facilities in the impacted area are damaged.
Hazardous Materials	Long term plans need to include the relocation of the transportation routes
Heat Wave/Drought	
Hurricanes/Tropical Storms	Damaged and impacted critical infrastructure facilities.
Inadequate Water Supply and/or Contamination	Environmental contamination; public perception impact on viability of beaches.
Land Erosion/Expansive Soils	Damage to tourism and businesses
Major Transportation Incidents	Up to 25% of critical infrastructure facilities in the impacted area are damaged.
Mass Exodus/Immigration	
Public Health Threat	Environmental contamination; public perception impact on viability of recreation facilities Public perception of infected areas.
Terrorism / WMD	Long term plans need to include the relocation of transportation routes
Thunderstorms / Lightning / Tornadoes	Damaged and impacted critical infrastructure facilities
Tsunami / Rogue Waves	Up to 25% of critical infrastructure facilities in the impacted area are damaged.
Winter Storm / Freeze	Up to 25% of critical infrastructure facilities in the impacted area are damaged.

Core Capability:	Risk and Disaster Resilience and Assessment
Active Shooter / Lone Wolf	Damage to homes and businesses, vehicles and persons
Civil Disturbance	
Coastal Oil Spills	Damage to tourism and businesses
Critical Infrastructure Disruption	
Fire	Surrounding areas around wildland-urban interface fires are vulnerable in catching fire themselves.
Flooding/Storm Surge	All areas expected to receive heavy rains and possible flooding.
Hazardous Materials	Damage to homes and businesses, vehicles and persons.
Heat Wave/Drought	
Hurricanes/Tropical Storms	All areas expected to receive Tropical Storm force winds 12 hours prior to landfall.
Inadequate Water Supply and/or Contamination	
Land Erosion/Expansive Soils	Damage to homes and businesses, vehicles and persons.
Major Transportation Incidents	Damage to homes and businesses, vehicles and persons.
Mass Exodus/Immigration	
Public Health Threat	
Terrorism / WMD	Damage to homes and businesses, vehicles and persons.
Thunderstorms / Lightning / Tornadoes	Potential for strong straight-line winds and saturating rain.
Tsunami / Rogue Waves	

## Hazard Identification and Risk Assessment

Winter Storm / Freeze	
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Core Capability:	Threats and Hazard Identification
Active Shooter / Lone Wolf	
Civil Disturbance	
Coastal Oil Spills	
Critical Infrastructure Disruption	
Fire	Wildfire in a dense forest area also in a field near an interstate which has limited visibility on a nearby interstate and caused a multiple vehicle crash.
Flooding/Storm Surge	Slow moving, or stalled rain storm that is projected to cause widespread flooding.
Hazardous Materials	HazMat derailment in a largely populated business and residential area during peak travel time causes an incident to occur and renders the road impassible.
Heat Wave/Drought	
Hurricanes/Tropical Storms	Majority of SRC impacted with vulnerable populations causing massive economic and social impact.
Inadequate Water Supply and/or Contamination	
Land Erosion/Expansive Soils	Damage to berms and beaches
Major Transportation Incidents	HazMat derailment in a largely populated business and residential area during peak travel time causes an incident to occur and renders the road impassible.
Mass Exodus/Immigration	
Public Health Threat	First responder resources impacted; economic resources for communities' ability to respond impacted; threats at public gatherings
Terrorism / WMD	First responder resources impacted; economic resources for community ability to respond impacted; inability to effectively scan potentially exposed population; environmental impact of decon efforts.
Thunderstorms / Lightning / Tornadoes	Majority of SRC impacted with vulnerable populations causing massive economic and social impact
Tsunami / Rogue Waves	Portions of south SRC impacted with vulnerable populations causing massive economic and social impact.
Winter Storm / Freeze	

Core Capability:	Critical Transportation
Active Shooter / Lone Wolf	Selected roadways closed for public safety.
Civil Disturbance	Multiple transportation routes blocked by people
Coastal Oil Spills	Limited levels of PPE and personnel; ventilation systems impacted; need to control contamination; need to monitor and control waste water treatment systems; Lack of resources to provided environmental monitoring to evaluate contaminated areas.
Critical Infrastructure Disruption	Selected roadways closed for public safety.
Fire	Multiple transportation routes (roads, rails and runways) impassable due to fire and heavy smoke.
Flooding/Storm Surge	Multiple transportation routes (road, rail and runway) under water making them impassable.
Hazardous Materials	Major roads overwhelmed; airport service disruption; decon of mass transit that was used to transport infected people; 100% of transportation systems impacted; regional evacuation

## Hazard Identification and Risk Assessment

Heat Wave/Drought	N/A
Hurricanes/Tropical Storms	Debris on I- 10, and other major road ways. Rail system disrupted due to flooded or washed out railway, Bridges affected.
Inadequate Water Supply and/or Contamination	N/A
Land Erosion/Expansive Soils	Selected roadways closed for public safety.
Major Transportation Incidents	Rail transportation disabled, sections of affected major road ways impassible.
Mass Exodus/Immigration	
Public Health Threat	Major roads overwhelmed; airport service disruption; decon of mass transit that was used to transport infected people; 100% of transportation systems impacted; regional evacuation.
Terrorism / WMD	Major roads overwhelmed; airport service disruption; decon of mass transit that was used to transport infected people; 100% of transportation systems impacted; regional evacuation.
Thunderstorms / Lightning / Tornadoes	Up to 25% of critical infrastructure facilities do not have power. Retail businesses in storm path will be disrupted due to damage and /or loss of electrical power.
Tsunami / Rogue Waves	Multiple transportation routes (road, rail and runway) under water making them impassable.
Winter Storm / Freeze	Multiple transportation routes (roads, rails and runways) impassable due to frozen roads and bridges

Core Capability:	Environmental Response/Health and Safety
Active Shooter / Lone Wolf	
Civil Disturbance	
Coastal Oil Spills	contaminated fatalities; possible exposure control of bodies; local ME overwhelmed
Critical Infrastructure Disruption	
Fire	Those in the path need to stay indoors due to risk of medical complications and heavy smoke.
Flooding/Storm Surge	Water and Sewer treatment plants are inoperable due to damage or loss of electricity.
Hazardous Materials	Limited levels of PPE and personnel; ventilation systems impacted; need to control contamination; need to monitor and control waste water treatment systems; Lack of resources to provided environmental monitoring to evaluate contaminated areas.
Heat Wave/Drought	May need cooling shelters
Hurricanes/Tropical Storms	Water/Sewer treatment facilities not operational due to loss of electricity. All water consumption will require boiling.
Inadequate Water Supply and/or Contamination	
Land Erosion/Expansive Soils	
Major Transportation Incidents	Potential contamination due to any leakage of contaminants from vehicles or train.
Mass Exodus/Immigration	
Public Health Threat	Ventilation systems impacted; lab capacity overwhelmed; lack of resources to provide environmental monitoring to evaluate contaminated areas.
Terrorism / WMD	Limited levels of PPE and personnel; ventilation systems impacted; need to control contamination; need to monitor and control waste water treatment systems; Lack of resources to provided environmental monitoring to evaluate contaminated areas.

## Hazard Identification and Risk Assessment

Thunderstorms / Lightning / Tornadoes	Water and Sewer treatment plants are inoperable due to damage or loss of electricity.
Tsunami / Rogue Waves	Water/Sewer treatment facilities not operational due to loss of electricity. All water consumption will require boiling.
Winter Storm / Freeze	

Core Capability:	Fatality Management
Active Shooter / Lone Wolf	Some fatalities
Civil Disturbance	
Coastal Oil Spills	
Critical Infrastructure Disruption	
Fire	Minimal fatalities.
Flooding/Storm Surge	Few fatalities
Hazardous Materials	contaminated fatalities; possible exposure control of bodies; local ME overwhelmed
Heat Wave/Drought	Heat may cause a few fatalities
Hurricanes/Tropical Storms	Multiple fatalities
Inadequate Water Supply and/or Contamination	
Land Erosion/Expansive Soils	
Major Transportation Incidents	Possible fatalities from train derailment and road way incident. Few fatalities.
Mass Exodus/Immigration	
Public Health Threat	Limited capacity to hold bodies.
Terrorism / WMD	200 contaminated fatalities; possible exposure control of bodies; local ME overwhelmed FEMORS (CDC plan to handle radiologically contaminated bodies).
Thunderstorms / Lightning / Tornadoes	Few fatalities
Tsunami / Rogue Waves	Multiple fatalities
Winter Storm / Freeze	

Core Capability:	Mass Care Services
Active Shooter / Lone Wolf	
Civil Disturbance	
Coastal Oil Spills	
Critical Infrastructure Disruption	
Fire	Some will require shelter due to damage caused by fire.
Flooding/Storm Surge	10000 people in threatened area; many will require shelter due to damage caused by tornado.
Hazardous Materials	2000 potentially exposed; insufficient care available to deal with medical surge; available shelters;
Heat Wave/Drought	
Hurricanes/Tropical Storms	Thousands displaced and seeking shelter.
Inadequate Water Supply and/or Contamination	
Land Erosion/Expansive Soils	
Major Transportation Incidents	Shelters and other mass care services will need to be set up with little to no notice. Due to impassable roadways on-scene medical care might be needed.
Mass Exodus/Immigration	
Public Health Threat	N/A
Terrorism / WMD	10,000 potentially exposed; insufficient trauma care available to deal with surge; available shelters; medical surge.

## Hazard Identification and Risk Assessment

Thunderstorms / Lightning / Tornadoes	5000 people in threaten ed area; many will require shelter due to damage caused by wind and rain.
Tsunami / Rogue Waves	Thousands displaced and seeking shelter.
Winter Storm / Freeze	

Core Capability:	Mass Search and Rescue Operations
Active Shooter / Lone Wolf	
Civil Disturbance	
Coastal Oil Spills	
Critical Infrastructure Disruption	
Fire	Identify areas of potential evacuations.
Flooding/Storm Surge	85% of medical facilities, commercial structures, and residential structures impacted.
Hazardous Materials	Local resources immediately overwhelmed; challenge of establishing a secure perimeter to conduct search and rescue operation s; challenge of protecting first responder s from further contamination.
Heat Wave/Drought	
Hurricanes/Tropical Storms	85% of medical facilities, commercial structures, and residential structures impacted.
Inadequate Water Supply and/or Contamination	
Land Erosion/Expansive Soils	
Major Transportation Incidents	Businesses and residences in immediate area of derailment.
Mass Exodus/Immigration	
Public Health Threat	N/A
Terrorism / WMD	Local resources immediately overwhelmed; challenge of establishing a secure perimeter to conduct search and rescue operation s; challenge of protecting first responder s from further contamination.
Thunderstorms / Lightning / Tornadoes	25% of medical facilities, commercial structures, and residential structures impacted.
Tsunami / Rogue Waves	85% of medical facilities, commercial structures, and residential structures impacted.
Winter Storm / Freeze	

Core Capability:	On-scene Security and Protection
Active Shooter / Lone Wolf	Security needed at site; increase security at critical infrastructure.
Civil Disturbance	
Coastal Oil Spills	
Critical Infrastructure Disruption	Security required based upon nature of incident
Fire	Secure impacted areas to include shelters from the fires and areas prone to fires
Flooding/Storm Surge	Area impacted by 200-year flood event
Hazardous Materials	Challenge of establishing a secure perimeter to conduct search and rescue operations and controlling egress of potentially exposed individuals; limited resources to protect critical infrastructures.
Heat Wave/Drought	
Hurricanes/Tropical Storms	Large area impacted by hurricane force winds.
Inadequate Water Supply and/or Contamination	
Land Erosion/Expansive Soils	Security required based upon nature of incident
Major Transportation Incidents	Area impacted by derailment. Or accident.
Mass Exodus/Immigration	

## Hazard Identification and Risk Assessment

Public Health Threat	Security needed at health care facilities and PODs; security at hot buildings; increase security at critical infrastructure.
Terrorism / WMD	Challenge of establishing a secure perimeter to conduct search and rescue operations and controlling egress of potentially exposed individuals; limited resources to protect critical infrastructures.
Thunderstorms / Lightning / Tornadoes	Area impacted by strong straight-line winds.
Tsunami / Rogue Waves	Area impacted by tsunami / rogue wave
Winter Storm / Freeze	

Core Capability:	Operational Communications
Active Shooter / Lone Wolf	911 systems overwhelmed; rumor control through social networking; need to establish hot lines.
Civil Disturbance	911 systems overwhelmed; rumor control through social networking; need to establish hot lines.
Coastal Oil Spills	rumor control through social networking sites.
Critical Infrastructure Disruption	
Fire	Communications systems will be damaged or destroyed due to high winds, intact systems will become overwhelmed.
Flooding/Storm Surge	Communications systems will be damaged or destroyed due to high winds, intact systems will become overwhelmed.
Hazardous Materials	911 communications overwhelmed; cellular networks and landlines overwhelmed or inoperable; network and data lines impacted; 100% of communication systems impacted; limited 911 operators; rumor control through social networking sites.
Heat Wave/Drought	Communications systems will be damaged or destroyed due to high winds, intact systems will become overwhelmed.
Hurricanes/Tropical Storms	Communications systems will be damaged or destroyed due to high winds, intact systems will become overwhelmed.
Inadequate Water Supply and/or Contamination	
Land Erosion/Expansive Soils	Communications systems will be damaged or destroyed due to high winds, intact systems will become overwhelmed.
Major Transportation Incidents	Communications systems in immediate vicinity of derailment may be affected.
Mass Exodus/Immigration	
Public Health Threat	911 systems overwhelmed; rumor control through social networking; need to establish hot lines.
Terrorism / WMD	911 communications overwhelmed; cellular networks and landlines overwhelmed or inoperable; network and data lines impacted; 100% of communication systems impacted; limited 911 operators; rumor control through social networking sites.
Thunderstorms / Lightning / Tornadoes	Communications systems will be damaged or destroyed due to high winds, intact systems will become overwhelmed.
Tsunami / Rogue Waves	Communications systems will be damaged or destroyed due to tsunami, intact systems will become overwhelmed.
Winter Storm / Freeze	Communications systems will be damaged or destroyed due to high winds, intact systems will become overwhelmed.

Core Capability:	Public and Private Services and Resources
Active Shooter / Lone Wolf	
Civil Disturbance	
Coastal Oil Spills	businesses closed along inner coastal waterways and beach.
Critical Infrastructure Disruption	

## Hazard Identification and Risk Assessment

Fire	Businesses may be forced to close due to the heavy smoke from the fires.
Flooding/Storm Surge	Up to 25% of critical facilities do not have power. Fuel stations used by emergency responders may become inoperable due to flooding and/or loss of electrical power. Retail businesses will be disrupted due to flooding and/or loss of electrical power.
Hazardous Materials	businesses closed along with the major roadways
Heat Wave/Drought	Up to 25% of critical facilities may not have power. Overheated transformer may cause wide scale outages
Hurricanes/Tropical Storms	More than 25% amount of critical facilities do not have power. Fuel stations used by emergency responders are inoperable. Local retail will be disrupted due to supply shortage and loss of power.
Inadequate Water Supply and/or Contamination	
Land Erosion/Expansive Soils	
Major Transportation Incidents	Up to 25% of critical facilities may not have power. Retail businesses in vicinity will be disrupted due to damage, loss of electrical power or evacuation due to unsafe conditions.
Mass Exodus/Immigration	
Public Health Threat	Medical vendors will be needed for fatality cleanup and distribution of medication.
Terrorism / WMD	businesses closed along with the major roadways
Thunderstorms / Lightning / Tornadoes	Up to 25% of critical infrastructure facilities do not have power. Retail businesses in tornado path will be disrupted due to damage and /or loss of electrical power.
Tsunami / Rogue Waves	More than 25% amount of critical facilities do not have power. Fuel stations used by emergency responders are inoperable. Local retail will be disrupted due to supply shortage and loss of power.
Winter Storm / Freeze	

Core Capability:	Public Health and Medical Services
Active Shooter / Lone Wolf	Limited personnel and services. Medical facility surge. Shortage of medical services.
Civil Disturbance	
Coastal Oil Spills	Healthcare services overwhelmed.
Critical Infrastructure Disruption	
Fire	100+ fatalities and more than 500 injuries.
Flooding/Storm Surge	100+ fatalities and more than 500 injuries.
Hazardous Materials	Healthcare services overwhelmed. Mass casualty at hospitals, transport to hospitals and alternate treatment facilities is difficult. Alternate treatment sites are in place to reduce the burden in the hospital emergency departments.
Heat Wave/Drought	100+ fatalities and more than 500 injuries.
Hurricanes/Tropical Storms	Healthcare facilities have sustained damage and are overwhelmed. Sanitation issues. Healthcare limited. Limited health staff and equipment.
Inadequate Water Supply and/or Contamination	
Land Erosion/Expansive Soils	100+ fatalities and more than 500 injuries.
Major Transportation Incidents	Casualties will be low and limited to impact of derailment or roadway incident. Casualties will be dependent on severity of roadway incidents.
Mass Exodus/Immigration	

## Hazard Identification and Risk Assessment

Public Health Threat	Limited personnel and services. Medical facility surge. Shortage of medical services.
Terrorism / WMD	Healthcare services overwhelmed. Mass casualty at hospitals, transport to hospitals and alternate treatment facilities is difficult. Alternate treatment sites are in place to reduce the burden in the hospital emergency departments.
Thunderstorms / Lightning / Tornadoes	100+ fatalities and more than 500 injuries.
Tsunami / Rogue Waves	100+ fatalities and more than 500 injuries.
Winter Storm / Freeze	100+ fatalities and more than 500 injuries.

Core Capability:	Situational Assessment
Active Shooter / Lone Wolf	PIO/JIC needed to release quality information at the direction of IC.
Civil Disturbance	
Coastal Oil Spills	PIO/JIC needed to release quality information at the direction of IC. Information directed at the public concerning contamination, evacuation, protection in place and safe zones (areas of safe refuge).
Critical Infrastructure Disruption	needed to release quality information at the direction of IC.
Fire	Possible damage to communications equipment if located in the fire area.
Flooding/Storm Surge	At least 25% of critical infrastructure facilities are damage d.
Hazardous Materials	PIO/JIC needed to release quality information at the direction of IC. Information directed at the public concerning contamination, evacuation, protection in place and safe zones (areas of safe refuge).
Heat Wave/Drought	Timely and accurate prevention messages, as well as information on shelters.
Hurricanes/Tropical Storms	Communication networks affected. Power outages. Fuel issues.
Inadequate Water Supply and/or Contamination	PIO/JIC needed to release quality information at the direction of IC.
Land Erosion/Expansive Soils	
Major Transportation Incidents	Possible damage to communications equipment if located in the area of derailment
Mass Exodus/Immigration	
Public Health Threat	Disseminating accurate information. Public fear.
Terrorism / WMD	PIO/JIC needed to release quality information at the direction of IC. Information directed at the public concerning contamination, evacuation, protection in place and safe zones (areas of safe refuge).
Thunderstorms / Lightning / Tornadoes	At least 25% of critical infrastructure facilities are damage d.
Tsunami / Rogue Waves	Communication networks affected. Power outages. Fuel issues.
Winter Storm / Freeze	

Core Capability:	Infrastructure Systems
Active Shooter / Lone Wolf	
Civil Disturbance	
Coastal Oil Spills	
Critical Infrastructure Disruption	
Fire	Up to 25% of critical infrastructure facilities are damaged. Multiple transportation routes blocked with tornado debris or damaged from tornado. Facilities and communication systems in tornado path will be disrupted due to damage and/or loss of power.
Flooding/Storm Surge	Up to 25% of critical infrastructure facilities are damaged. Multiple transportation routes blocked with tornado debris or damaged from tornado. Facilities and communication systems in tornado path will be disrupted due to damage and/or loss of power.

## Hazard Identification and Risk Assessment

Hazardous Materials	Major roadways are affected and can be restored once the hazard is under control. Railway transportation can be restored once the site is cleared, environmental impact evaluated and cleaned up, and railroad infrastructure repaired
Heat Wave/Drought	Up to 25% of critical infrastructure facilities are damaged. Multiple transportation routes blocked with tornado debris or damaged from tornado. Facilities and communication systems in tornado path will be disrupted due to damage and/or loss of power.
Hurricanes/Tropical Storms	Over 25% of critical infrastructure facilities are damaged. Numerous medical facilities are damaged. First responder facilities are damaged or destroyed.
Inadequate Water Supply and/or Contamination	
Land Erosion/Expansive Soils	Up to 25% of critical infrastructure facilities are damaged. Multiple transportation routes blocked with tornado debris or damaged from tornado. Facilities and communication systems in tornado path will be disrupted due to damage and/or loss of power.
Major Transportation Incidents	Multiple transportation routes (roads, and rails) are closed due to the derailment and roadway incident.
Mass Exodus/Immigration	
Public Health Threat	During initial stages communication networks will become overwhelmed.
Terrorism / WMD	Major roadways are affected and can be restored once the hazard is under control. Railway transportation can be restored once the site is cleared, environmental impact evaluated and cleaned up, and railroad infrastructure repaired
Thunderstorms / Lightning / Tornadoes	Up to 25% of critical infrastructure facilities are damaged. transportation routes blocked with debris or damaged from wind and rain Facilities and communication systems disrupted due to loss of power.
Tsunami / Rogue Waves	Up to 25% of critical infrastructure facilities are damaged. Multiple transportation routes blocked with debris or damaged from tsunami. Facilities and communication systems in tsunami path will be disrupted due to damage and/or loss of power.
Winter Storm / Freeze	Up to 25% of critical infrastructure facilities are damaged. Multiple transportation routes blocked with tornado debris or damaged from tornado. Facilities and communication systems in tornado path will be disrupted due to damage and/or loss of power.

Core Capability:	Economic Recovery
Active Shooter / Lone Wolf	
Civil Disturbance	
Coastal Oil Spills	Millions of dollars in direct and indirect costs. These are related to limited transportation of commerce through SRC, business closings, and loss of tourism.
Critical Infrastructure Disruption	
Fire	\$5 million in damage
Flooding/Storm Surge	Over 200 million in damage.
Hazardous Materials	Millions of dollars in direct and indirect costs. These are related to limited transportation of commerce through SRC, business closings, and loss of tourism.
Heat Wave/Drought	
Hurricanes/Tropical Storms	Large economic loss, 40% of community stores grocery, banks, pharmacies are closed

## Hazard Identification and Risk Assessment

Inadequate Water Supply and/or Contamination	
Land Erosion/Expansive Soils	Millions of dollars in direct and indirect costs
Major Transportation Incidents	Depending on area of derailment, damage is estimated in the millions related to direct and indirect costs.
Mass Exodus/Immigration	
Public Health Threat	Businesses may be required to close or modify operations
Terrorism / WMD	Millions of dollars in direct and indirect costs. These are related to limited transportation of commerce through SRC, business closings, and loss of tourism.
Thunderstorms / Lightning / Tornadoes	Over \$10 million in damage.
Tsunami / Rogue Waves	Large economic loss, 40% of community stores grocery, banks, pharmacies are closed
Winter Storm / Freeze	

Core Capability:	Health and Social Services
Active Shooter / Lone Wolf	Local healthcare is affected related to real injuries.
Civil Disturbance	
Coastal Oil Spills	Local healthcare is affected related to real and perceived injuries.
Critical Infrastructure Disruption	Local healthcare is affected related to real injuries.
Fire	Possible damage to medical facilities in area of impact.
Flooding/Storm Surge	Medical facilities in tornado path will be disrupted due to damage and/or loss of electric al power.
Hazardous Materials	Local healthcare is affected related to real and perceive d injuries. Hazmat release will affect many homes and homeless
Heat Wave/Drought	
Hurricanes/Tropical Storms	Medical facilities in tornado path will be disrupted due to damage and/or loss of electric al power.
Inadequate Water Supply and/or Contamination	
Land Erosion/Expansive Soils	
Major Transportation Incidents	Medical facilities within a certain radius will be impacted
Mass Exodus/Immigration	
Public Health Threat	100% health services impacted.
Terrorism / WMD	Local healthcare is affected related to real and perceived injuries. Hazmat release will affect many homes and homeless living in the downtown area.
Thunderstorms / Lightning / Tornadoes	Medical facilities disrupted due to damage and/or loss of electric al power.
Tsunami / Rogue Waves	Medical facilities in tsunami path will be disrupted due to damage and/or loss of electrical power.
Winter Storm / Freeze	

Core Capability:	Housing
Active Shooter / Lone Wolf	
Civil Disturbance	
Coastal Oil Spills	Ground contamination would be expected resulting in large cleanup operations spanning months after the incident and cost millions of dollars.
Critical Infrastructure Disruption	
Fire	Homes are in danger of fires.
Flooding/Storm Surge	50000 people in threatened area. Many will require temporary housing due to damage.

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Hazardous Materials	Ground contamination would be expected resulting in large cleanup operations spanning months after the incident and cost millions of dollars.
Heat Wave/Drought	
Hurricanes/Tropical Storms	Large number seeking shelter. Over 100 residential structures destroyed.
Inadequate Water Supply and/or Contamination	
Land Erosion/Expansive Soils	Potential for loss of family housing and rentals.
Major Transportation Incidents	People in threatened area will have to evacuate with little to no notice, some may require temporary housing.
Mass Exodus/Immigration	
Public Health Threat	
Terrorism / WMD	Ground contamination would be expected resulting in large cleanup operations spanning months after the incident and cost millions of dollars.
Thunderstorms / Lightning / Tornadoes	5000 people in threatened area. Many will require temporary housing due to damage.
Tsunami / Rogue Waves	Large number seeking shelter. Over 100 residential structures destroyed.
Winter Storm / Freeze	

Core Capability:	Natural and Cultural Resources
Active Shooter / Lone Wolf	
Civil Disturbance	Loss of tourism
Coastal Oil Spills	Loss of tourism
Critical Infrastructure Disruption	
Fire	Possible damage to natural and cultural resources and debris.
Flooding/Storm Surge	Possible damage to natural and cultural resources and debris.
Hazardous Materials	Loss of tourism
Heat Wave/Drought	Possible damage to natural and cultural resources and debris.
Hurricanes/Tropical Storms	500,000 tons of construction debris
Inadequate Water Supply and/or Contamination	
Land Erosion/Expansive Soils	Possible damage to natural and cultural resources and debris.
Major Transportation Incidents	Debris in vicinity of incident
Mass Exodus/Immigration	
Public Health Threat	Loss of tourism
Terrorism / WMD	Loss of tourism
Thunderstorms / Lightning / Tornadoes	Possible damage to natural and cultural resources and debris.
Tsunami / Rogue Waves	Possible damage to natural and cultural resources and debris.
Winter Storm / Freeze	Possible damage to natural and cultural resources and debris.

### Step 4: Set Capability Targets

This section looks across the estimated impacts to the community, in the context of each core capability, and couples that information with Santa Rosa County's desired outcomes to set capability targets.

## Hazard Identification and Risk Assessment

	Core Capability	Desired Outcome
<b>Common</b>	Planning	Annually maintain an all-hazard plan that addresses all of the mission areas, to include annexes as required. Annually maintain Continuity of Operations (COOP) / Continuity of Government (COG) plan for all critical infrastructure.
	<b>Capability Target:</b> <u>Greatest Estimated Impacts:</u> Execute all hazards plan / Conduct incident action Planning	
	Public Information and Warning	Provide information in a timely manner, consistent with the threat or hazard, to enable people to take appropriate protective measures.
	<b>Capability Target:</b> Within a timely manner provide emergency information and warning to citizens/visitors in the area of impact. <u>Greatest Estimated Impacts:</u> Provide emergency information and warning to citizens/visitors in the area of impact. Assure temporary/tourist populations are informed utilizing JIC/JIS through Incident Command.	
	Operational Coordination	Establish and maintain unified and coordinated operational structure and process in the impacted area within 1st hour of a potential or actual incident.
	<b>Capability Target:</b> Work with Federal, State and Local partners to eliminate duplication of effort and provide a thorough response (ICS) and if needed establish and maintain unified and coordinated operational structure and process in impacted areas within the first hour of an actual incident. <u>Greatest Estimated Impacts:</u> Work with Federal, State and Local partners to eliminate duplication of effort and provide a thorough response (ICS).	
<b>Prevention</b>	Forensics and Attribution	Prioritize 100% of evidence collection and analysis to assist in preventing initial or follow-on terrorist acts.
	<b>Capability Target:</b>	
<b>Prevention and Protection</b>	Intelligence and Information Sharing	Within the 1st hour of an incident, begin to share relevant, timely, and actionable information and analysis with State, local, and private partners in accordance with established protocols.
	<b>Capability Target:</b> Within the first hour of an incident, begin to share relevant timely and actionable information and analysis with Federal, State, Local and private partners. <u>Greatest Estimated Impacts:</u> Work with Federal, State, Local, and Private partners to gather most relevant and up to date information.	
	Interdiction and Disruption	Interdict 100% of specific conveyances, cargo, and persons associated with an imminent threat to the State of Florida, based on available resources.
	<b>Capability Target:</b>	
	Screening, Search, and Detection	Screen 100% of targeted cargo, conveyances, mail, baggage, and people associated with an imminent terrorist threat or act using technical, non-technical, intrusive, or non-intrusive means.

## Hazard Identification and Risk Assessment

	<b>Capability Target:</b> Screen 20,000 people associated with an imminent terrorist threat or act using technical, non-technical, intrusive, or non-intrusive means	
<b>Protection</b>	Access Control and Identity Verification	Ensure 100% verification of identity to authorize, grant, or deny physical and cyber access to specific locations, information, and networks
	<b>Capability Target:</b> Verify pertinent identities to authorize, grant, or deny physical and cyber access <u>Greatest Estimated Impacts:</u> Up to 25% of critical infrastructure facilities in the impacted area are damaged	
	Cybersecurity	Detect 100% of malicious activity directed against all critical infrastructure, key resources and networks
	<b>Capability Target:</b>	
	Physical Protective Measures	Protect 100% of people, structures, materials, products, and systems of key operational activities and critical infrastructure sectors against an identified or perceived threat.
	<b>Capability Target:</b> Harden 100% of essential critical infrastructure facilities <u>Greatest Estimated Impacts:</u> Harden essential critical infrastructure facilities	
	Risk Management for Protection Programs and Activities	Complete risk assessments for 100% of prioritized critical infrastructure and key resources (CI/KR) assets
	<b>Capability Target:</b> Up to 25% of critical infrastructure facilities in the impacted area are damaged <u>Greatest Estimated Impacts:</u> Up to 25% of critical infrastructure facilities in the impacted area are damaged	
	Supply Chain Integrity and Security	Secure all identified priority supply nodes, transit methods and materials
<b>Capability Target:</b> 100% of transportation systems affected in incident area <u>Greatest Estimated Impacts:</u> 100% of transportation systems affected in incident area		
<b>Mitigation</b>	Community Resilience	Maintain annually and implement 100% risk mitigation plans for communities with highest risk through partnerships with whole community representatives based on available funding
	<b>Capability Target:</b> Medical facilities, commercial and residential structures impacted in incident area <u>Greatest Estimated Impacts:</u> over 5 Medical facilities, over 100 commercial and over 2,000 residential structures impacted in incident area	
	Long-term Vulnerability Reduction	Achieve a measurable decrease in the long-term vulnerability of critical infrastructure and systems
	<b>Capability Target:</b> Re-route 100% of rail containing toxic inhalation chemicals around densely populated areas <u>Greatest Estimated Impacts:</u> Up to 25% of critical infrastructure facilities in the impacted area are damaged	

## Hazard Identification and Risk Assessment

	Risk and Disaster Resilience Assessment	Annually, identify, analyze and maintain a risk assessment that includes information about localized vulnerabilities and consequences for the County
	<p><b>Capability Target:</b> Update risk assessment with impacts on areas expected to receive Tropical Storm force Winds</p> <p><u>Greatest Estimated Impacts:</u> All areas expected to receive Tropical Storm force winds 12 hours prior to landfall</p>	
	Threats and Hazard Identification	Annually, identify County Threats and Hazards in collaboration with whole community partners and incorporate into analysis and planning process
	<p><b>Capability Target:</b></p> <p><u>Greatest Estimated Impacts:</u> Category 5 hurricane impacts over 1,000 square miles with vulnerable populations impacted and a massive economic impact.</p>	
Response	Critical Transportation	During the first hour of an incident begin to establish physical access through appropriate transportation corridors and deliver required resources in an effort to save lives and to meet the needs of disaster survivors
	<p><b>Capability Target:</b></p> <p><u>Greatest Estimated Impacts:</u> Bridges, major highways, local road ways, and rail systems disrupted and/or closed.</p>	
	Environmental Response/ Health Safety	During the first hour of an incident begin to conduct health and safety hazard assessments and disseminate guidance and resources, including the deployment of hazardous materials teams, to support environmental health and safety actions for response personnel and the affected population and area
	<p><b>Capability Target:</b></p> <p><u>Greatest Estimated Impacts:</u> Water/sewer treatment facilities not operational due to loss of electricity</p>	
	Fatality Management Services	During the first 72 hours of an incident, conduct operations to recover fatalities
	<p><b>Capability Target:</b> During the first 72 hours of an incident, conduct operations to recover all fatalities</p>	
	Mass Care Services	During the first 6 hours of an incident begin to move and deliver resources and capabilities to meet the needs of disaster survivors, including individuals with access and functional needs and other who may be considered at risk
<p><b>Capability Target:</b> During the first 6 hours of an incident begin to move and deliver resources to meet the needs of approximately over 2 million people impacted, 400,000 people displaced, 75,000 seeking temporary shelter</p>		

## Hazard Identification and Risk Assessment

Mass Search and Rescue Operations	Within the first hour of an incident, conduct search and rescue operations to locate and rescue persons in distress
<b>Capability Target:</b> During the first hour of an incident conduct search and rescue operation for over 1,000 residential structures destroyed or damaged 40% of which have pets	
On-Scene Security and Protection	Within the first hour of an incident begin to establish a safe and secure environment for the affected area
<b>Capability Target:</b> During the first hour of an incident begin to establish safe and secure environments for the areas impacted by hurricane and tropical storm force winds	
Operational Communications	During the first hour of an incident, ensure that the capacity to communicate with both emergency response community and the affected populations is sufficient establish interoperable voice and data communications between responders
<b>Capability Target:</b> During the first hour of an incident, repair communications systems damaged or destroyed due to high winds and insure that intact systems can deal with the stresses of being overwhelmed	
Public and Private Services and Resources	During the first 6 hours of an incident, mobilize and deliver governmental, nongovernmental and private-sector resources within and outside the affected areas to save lives, sustain lives meet basic human needs stabilize the incident and transition to the recovery phase which may entail moving and delivering resources and services to disaster survivors.
<b>Capability Target:</b> During the first 6 hours of an incident mobilize and deliver governmental, nongovernmental and private sector resources to handle the 20% of critical facilities without power, inoperable emergency responder fuel stations, inoperable port fuel and disruption of supply and power to local retail	
Public Health and Medical Services	During the first 72 hours of an incident, complete triage and initial stabilization casualties and begin definitive care for those likely to survive their injuries
<b>Capability Target:</b> During the first 72 hours of an incident, complete triage and initial stabilization casualties and begin definitive care for those likely to survive injuries	
Situational Assessment	Within the first hour of an incident begin to deliver information sufficient to inform decision making regarding immediate life-saving and sustaining activities and engage governmental, private, and civic-sector resources within and outside of the affected area to meet basic human needs and stabilize the incident.
<b>Capability Target:</b> Within the first hour of an incident being to assess the impacts of up to 25% damaged critical infrastructure facilities.	

## Hazard Identification and Risk Assessment

<b>Response and Recovery</b>	Infrastructure Systems	During the first 6 hours of an incident, decrease and stabilize immediate infrastructure threats to the affected populations, to include survivors in the heavily-damaged zone, nearby communities that may be affected by cascading effects, and mass care support facilities and evacuation processing centers with a focus on life-sustainment and congregate care services over the impact area to the affected population. Within 30 days of an incident, develop a plan with a specified timeline for redeveloping community infrastructures to contribute to resiliency, accessibility and sustainability
	<b>Capability Target:</b> During the first 6 hours of an incident, decrease and stabilize up to 25% of damaged critical facilities, multiple blocked or damaged transportation route, and inoperable facilities and communication networks. Within 15 days of an incident, restore power to 50,000 customers	
<b>Recovery</b>	Economic Recovery	Within 130 days of an incident develop a plan with whole community partners, with a specified timeline for redeveloping community infrastructures to contribute to resiliency, accessibility, and sustainability
	<b>Capability Target:</b> Be able to restore function of 60% of businesses that close	
	Health and Social Services	Within 72 hours of an incident, restore, basic health and social services functions
	<b>Capability Target:</b> Within 72 hours of an incident restore basic health and social services to facilities in the incident area disrupted due to damage or loss of electrical power	
	Housing	Within 30 days of an incident, assess preliminary housing impacts and needs, identify currently available options for temporary housing, and plan for permanent housing
	<b>Capability Target:</b> Within 30 days of an incident assess preliminary housing impacts and needs of over 5,000 residents seeking shelter with over 100 residential structures destroyed	
	Natural and Cultural Resources	Within 180 days of an incident, mitigate impacts, stabilize natural and cultural resources and conduct a preliminary assessment of the impacts that identifies protections needed in place during the various stages of incident management from stabilization through recovery
<b>Capability Target:</b> Within 180 days of incident mitigate impacts, stabilize natural and cultural resources and conduct preliminary assessment of impacts of 1,250,000 tons of debris, and 500,000 tons of construction debris		

### Step 5: Apply the Results

Santa Rosa County will apply the results of this HIRA to manage risk, including identification of mitigation opportunities and supporting preparedness activities. Using capability targets, Santa Rosa County will determine the required resources it needs to achieve its desired outcomes. Santa Rosa County may find it

## Hazard Identification and Risk Assessment

simply needs to sustain existing capabilities, or it may identify a resource shortfall or capability gap. Several options may also be available to build capabilities or fill gaps, including working with non-traditional partners such as faith-based organizations, retail partners, and others.

If existing capabilities and capacities need to be supplemented to reach a capability target, Santa Rosa County can build capability or fill gaps by establishing mutual aid agreements with surrounding jurisdictions. It is possible that Santa Rosa County may require the resources of other levels of government to achieve a target and will need to collaborate closely with those external sources to secure the necessary resources. Santa Rosa County works collaboratively to build, sustain, or deliver capabilities to the identified targets. Finally, Santa Rosa County may choose to build and sustain capabilities through the use of available grants or other funding and technical assistance. Regardless of how Santa Rosa County chooses to address capabilities, this HIRA provides a framework to allow the Santa Rosa County to establish capability targets and monitor its progress towards building, sustaining, and delivering capabilities and managing the risks it faces.

Santa Rosa County can use HIRA results to make informed decisions about how to allocate limited resources Santa Rosa County's capability targets, along with an understanding of the required resources to achieve them and the desired outcomes will allow us to determine how limited resources can best be invested to build and sustain capabilities. These results can also be used to brief community leaders, senior officials, and the public on resource requirements. HIRA results inform mitigation planning and projects and larger community planning efforts. It identifies areas where mitigation plans, projects, and insurance can be employed to reduce the loss of life and damage to property, which, if implemented, reduce the capability targets needed to achieve desired outcomes. Using HIRA results to inform mitigation planning and projects aligns with the traditional mitigation planning process of identifying hazards, assessing losses to the community, and setting mitigation priorities and goals for the community.

## Conclusion

Understanding the risks faced by communities and the Nation as a whole and how this information can be used to build and sustain preparedness is an essential component of the National Preparedness System. This HIRA provides a common and consistent approach for identifying and assessing risks and their associated impacts. It expands on existing state, territorial, tribal, and local hazard identification and risk assessment processes. The HIRA is complemented by a Strategic National Risk Assessment (SNRA) that analyzes the greatest risks to the Nation and contributes to a shared understanding of the full range of risks, including long-term trends that face our Nation. HIRAs and the SNRA, along with specialized risk assessments, provide an integrated national risk picture, which in turn helps to achieve the goal of "a secure and resilient Nation with the capabilities required across the whole community to prevent, protect against, mitigate, respond to, and recover from the threats and hazards that pose the greatest risk."

Producing that integrated risk picture and achieving the Goal requires participation by the whole community. Consistent conduct and application of HIRAs provides an important tool for integrating whole community contributions toward achieving the Goal, and to educate individuals, families, businesses, organizations, community leaders, and senior officials on the risks they face and on their roles in and contributions to prevention, protection, mitigation, response, and recovery.

## Hazard Identification and Risk Assessment

### Annex 1 Risk and Vulnerability Assessment

Hazards		Risk and Vulnerability Assessment					
Hazard/ Threat	Plan	People	Property	Environment	Own Operations	Probab ility	Vulner ability
Active Shooter /Lone Wolf	CEMP	Physical injury such as burns, blunt trauma, gunshot wounds, death, or other injuries may occur as a result of a lone wolf terrorist or active shooter.	Particularly vulnerable to disasters involving active shooters, are the tourism industry, hotels/hospitality, schools, and government. Vulnerability for other entities would depend on the situation	N/A	Associated hazards could potentially include: shootings, broken gas lines, explosions, structural fires, HAZMAT Releases, contamination, strained local resources, traffic accidents, mass casualties, civil disturbance, structural collapse, etc.	Low	Medium
Civil Disturbance	CEMP	Physical injury such as burns, blunt trauma, gunshot wounds, death, or other injuries may occur as a result of civil disorder.	Water Systems, Transportation Systems, and Food Distribution networks government facilities, or other infrastructure could be at risk of civil disorder.	N/A	Associated hazards could potentially include: Strained local resources, reduced food/water supply, traffic accidents, mass casualties, and increased medical needs, etc.	Low	Low
Coastal Oil Spills	CEMP	Typical injuries: toxicity, contamination	Decreased tourism and decreased property values. As oil contamination is a health hazard, structural vulnerability could arise due to the absorbent nature of certain building materials and would	Locations along the Gulf of Mexico, Santa Rosa Sound, Gulf Breeze peninsula, Garcon Point, Escambia and East Bay, and all rivers and streams could be vulnerable to this hazard	Associated hazards include: concentrated levels of contaminants in available water supply, diseases, loss of wildlife and habitat, contaminated soils	Low	High

## Hazard Identification and Risk Assessment

			depend on the extent of infiltration and the ability to remediate the contamination				
Critical Infrastructure Disruption	CEMP	Dependent on the type of critical infrastructure loss	Dependent on the type of critical infrastructure loss	N/A	In severe cases, dependent on the type of critical infrastructure disruption, associated hazards could potentially include: energy shortages, broken gas lines, explosions, structural fires, HAZMAT releases, contamination, diseases, strained local resources, reduced food/water supply, wildfires, traffic accidents, mass casualties, crop failure, pharmaceutical shortage, civil disturbance, community decline, exodus	High	Low
Fire	CEMP/LMS	Typical injuries include: smoke inhalation, toxic inhalation, burns, respiratory distress, structural collapse, trauma, death	All geographic locations are vulnerable to fires. At particular risk are those structures and agricultural operations along the rural/urban interface. Vacant fields, woodlands, lots, and acreage connect communities to the rural/urban interface. This could allow fires to	All geographic locations are vulnerable to fires.	Associated hazards include: explosions, hazardous materials incidents, vehicle accidents, mass exodus, evacuations, illness.	Low	High

## Hazard Identification and Risk Assessment

			come into subdivisions and neighborhoods in urban and suburban areas.				
Flooding/ Storm Surge	CEMP/LMS	Typical injuries may result from: falling trees/limbs, downed power lines, structural collapse, rising flood waters, vehicle accidents/submersion	Typical injuries may result from: falling trees/limbs, downed power lines, structural collapse, rising flood waters, vehicle accidents/submersion	Typical injuries may result from: falling trees/limbs, downed power lines, structural collapse, rising flood waters, vehicle accidents/submersion Others include the City of Milton, near drainage ditches and former wetlands now dredged and filled;	Typical injuries may result from: falling trees/limbs, downed power lines, structural collapse, rising flood waters, vehicle accidents/submersion	High	High
Hazardous Materials Incidents	CEMP	Injuries vary with chemical involved. Material Safety Data Sheet's (MSDS), the most current Emergency Response Guidebooks (ERG), NIOSH pocket guide, ATSDR publications, and emergency hotlines such as CHEMTREC offer chemical-specific injury details and protective measures. Generally, routes of exposure include inhalation, ingestion, and physical contact, and may lead to respiratory distress, organ failure, burns or death	Structural vulnerability is a function of the capacity to adequately shelter its occupants and isolate outside air. Vulnerability increases for occupants of leaky structures with doors/windows without adequate seals and inadequate insulation. Additionally, vulnerability exists for occupants of structures where AC/Heat is inaccessible or controlled off premises, or for those facilities built specifically to exchange air (such as prisons, etc). Structural vulnerability also exists	All locations in close proximity to fixed facilities, highway, rail, plane, pipeline, and barge/boat traffic. Particularly vulnerable are those locations near Interstate 10, Hwy 90, Hwy 98, Air Products, Sterling Fibers, Whiting Field, and Exxon Mobil.	Associated hazards include: Public Health threats (Contamination, Disease/ illness), explosions, fires, vehicle accidents, Mass Exodus, Civil Unrest	High	High

## Hazard Identification and Risk Assessment

			due to explosive potential associated with the release of certain chemicals.				
Heat Waves/ Drought	CEMP/LMS	All populations are vulnerable to effects of heat waves. Outdoor workers, Elderly persons, small children, invalid, homeless, those on certain medications or drugs (especially tranquilizers and anticholinergics), and persons with weight and alcohol problems are particularly susceptible to heat reactions. Additionally, impoverished individuals are more vulnerable as they may reduce or eliminate the use of A/C systems due to rising cooling costs.	Structures may be vulnerable to structural expansion, soil erosion, soil contraction, and fires.	Power lines are vulnerable to heat wave, as they sag more than normal when heated and can contact nearby trees, taking the line out of service, and shifting load to other lines. Vulnerability also lies in the increased demand and reliability of the transmission. Drought-induced water shortages may result as water sources declines and demands for personal consumption and firefighting increase.	Associated hazards include: heat wave trapped air pollutants, concentrated levels of chemicals and bacteria in water supply, wildfires, energy shortages, water shortages, flash flood, wind erosion	High	Low
Hurricanes/Tropical Storms	CEMP/LMS	Typical injuries may result from: Wind-blown debris, falling limbs, downed power lines, structural collapse, rising flood waters, vehicle accidents, heat stress, lack of food/water/medical treatment/medicines, loss of access to emergency services.	Community infrastructure is vulnerable to considerable disruption/failure. Examples include: Road and bridge failure/blockage or compromise, gas leaks, compromised electric delivery systems, jammed cell and land line phones / downed	All geographic locations within Santa Rosa County are vulnerable; however, damaging winds and storm surge effects can be expected to be most intense along the Southern coastal border including Gulf Breeze, Midway, and Navarre Beach. Coastal surge can also be expected to push up	Associated hazards include: damaging winds, dangerous lightning, storm produced tornadoes, inland and coastal flooding, contamination, storm surge, HAZMAT Releases, gas explosions, structural fires, electrocution from downed wires,	High	High

## Hazard Identification and Risk Assessment

		Additional injuries may occur during the post event cleanup: Chainsaw Injuries, Falls from heights, Animal Bites (wasps, spiders, snakes, dogs etc), Heat Stress, Over-exertion, Mold-induced respiratory conditions, hepatitis A and B, tetanus, mosquito-borne illnesses, heart attacks/stroke, increased stress, mental anxiety etc	towers / flooded switches/ broken lines, sewerage lift station failure, flooded/overwhelmed/ powerless water treatment facilities	the bays and river systems flooding homes and businesses along water features.	drowning, sinkholes, civil disturbance, political unrest		
Inadequate Water Supply and/or Contamination	CEMP/LMS	All populations are vulnerable to inadequate or contaminated water supply	Vulnerability exists for Water Systems	Increased levels of undiluted chemicals in soil and available water.	Associated hazards include: concentrated levels of chemicals and bacteria in available water supply, infectious diseases, wildfires, energy shortages, water shortages, flash flood, wind erosion, illness, civil disorder, community decline, exodus	Moderate	Medium
Land Erosion/Expansive Soils	CEMP/LMS		Potential loss of beach properties or limited access to beach properties will affect economy.	Loss of beaches, and or river landings.	Associated hazards could potentially include: civil disorder, community decline, exodus	High	Medium
Major Transportation Incidents	CEMP	Trauma, burns, entrapment, chemical contamination/burns, toxic smoke inhalation, respiratory illnesses,	Transportation Incidents may affect or directly impact any critical facility including transportation and	All roadways, highways, and waterways are vulnerable. Especially waterways or marshlands adjacent to	In severe cases, dependent on the type of transportation incident, associated hazards could	Low	Medium

## Hazard Identification and Risk Assessment

		death	energy systems, defense installations, banking and financial assets, water supplies, chemical plants, food and agricultural resources, police and fire departments, hospitals and public health systems, and government offices.	transportation routes.	potentially include: broken gas lines, explosions, structural fires, HAZMAT Releases, contamination, strained local resources, reduced food/water supply, wildfires, subsequent traffic accidents, mass casualties		
Mass Exodus / Immigration	CEMP	Dependent on the reason for the mass movement of people	Dependent on the reason for the mass movement of people	Immigration could have long term impacts to the environment due to depletion of natural resources to sustain the population	In severe cases, dependent on the reason for the mass movement of people, associated hazards could potentially include: energy shortages, diseases, strained local resources, reduced food/water supply, traffic congestion, mass casualties, pharmaceutical shortage, civil disturbance, community decline, exodus	Low	High
Public Health Threats	CEMP/LMS/Pandemic	Typical injuries: Each public health threat is issued with its own unique characteristics and will depend on the threat itself.	N/A	Depends on nature of threat	Associated hazards could potentially include: crop failure, reduced food/water supply, infectious or other diseases, pharmaceutical shortage, energy shortages, water	High	Low

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					shortages, civil disorder, community decline, exodus		
Terrorism/Weapons of Mass Destruction	CEMP/RDSTF	Injuries may vary according to the method used. All may cause stress and panic, and subsequent hazards that can cause additional personal injury; Typical injuries can include or result from: Biological WMD-disease/death, contaminated or limited access to food/water; Nuclear WMD-radiation sickness, burns, blast, cancer, death, contaminated food/water, dust Explosives/Incendiary devices- burns, lacerations, trauma, death, structural collapse, subsequent explosions/fires Chemical WMD-respiratory distress, organ failure, burns, death	All structures are vulnerable to Explosives/Incendiary Devices	All geographic locations are vulnerable to Terrorism/WMD events	Associated hazards include: Public Health threats (Contamination, Disease/ illness), explosions, fires, vehicle accidents, Mass Exodus, Civil Unrest	Low	High
Thunderstorms / Lightning/ Tornadoes	CEMP/LMS	Typical injuries may result from: Vehicle accidents, wind-blown debris, falling limbs, lightning strikes, downed power lines,	Community infrastructure is vulnerable to disruption/failure. The primary disruption is associated with power	All geographic locations within Santa Rosa County are vulnerable, including the coastline where tornadoes over water or "waterspouts"	Associated hazards include: Damaging winds, dangerous lightning, storm produced tornadoes, flooding,	High	Medium

## Hazard Identification and Risk Assessment

		structural collapse, rising flood waters, mold-induced illnesses, contaminated waters	outages. Other possibilities include: Flooded, undermined or impassable roads, clogged drainage systems, communications failure, flooded/ overwhelmed/ powerless water treatment facilities	are possible. Rising floodwaters associated with severe storms, can affect those in low-lying areas, areas of poor-drainage or along bodies of water	contamination, storm surge, HAZMAT Releases, gas explosions, structural fires, electrocution from downed wires, drowning, vehicle accidents		
Tsunamis/ Rogue Waves	CEMP/LMS	Typical injuries may result from: falling trees/limbs, downed power lines, structural collapse, rising flood waters, vehicle accidents/submersion	Typical injuries may result from: falling trees/limbs, downed power lines, structural collapse, rising flood waters, vehicle accidents/submersion	Typical injuries may result from: falling trees/limbs, downed power lines, structural collapse, rising flood waters, vehicle accidents/submersion Others include the City of Milton, near drainage ditches and former wetlands now dredged and filled;	Typical injuries may result from: falling trees/limbs, downed power lines, structural collapse, rising flood waters, vehicle accidents/submersion	Low	Low
Winter Storm, Freeze	CEMP/LMS	All populations are vulnerable to effects of winter storms, particularly compounded due to potential utility loss at a critical time when heating is needed. Those without access to portable heaters and generators are more vulnerable. Typical injuries may result from: slippery surfaces, falling limbs, downed power lines, structural	All structures are vulnerable to winter storm damage. In general, structures are the most vulnerable to tree damage; hail, burst or uprooted water pipes and gas lines. Additionally, elevated structures are more vulnerable to the bursting of water pipes associated with freezing temperatures. Power and communication systems using overhead	Agricultural areas would be most at risk environmentally.	Associated hazards include: lack of heating, hail, falling trees, communication system and/or power outage, broken gas lines, or water mains, iced roads/bridges, vehicle accidents, structural collapse	Low	Low

## Hazard Identification and Risk Assessment

		collapse, vehicle accidents, freezing, frostbite, hypothermia, lack of food/water/medical treatment/medicines, and limited access to emergency services.	lines are usually the hardest hit by ice storms. Additionally, gas and water lines are vulnerable to tree damage and extreme temperatures. Roads and bridges may be impassible due to storm debris, or icing.				
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## Hazard Identification and Risk Assessment

### Annex 2 Consequence Analysis

<b>Active Shooter/Lone wolf</b>	
<b>Impacts</b>	
<b>Public and Responders</b>	Physical injury such as burns, blunt trauma, gunshot wounds, death, or other injuries may occur as a result of a lone wolf terrorist or active shooter.
<b>Continuity of Operations</b>	Emergency response capability is vulnerable to additional strain, or direct impact, particularly if the incident is due to terrorism, involving subsequent incidents.
<b>Property, Facilities, and Infrastructure</b>	Particularly vulnerable to disasters involving active shooters, are the tourism industry, hotels/hospitality, schools, and government. Vulnerability for other entities would depend on the situation. Potential economic impact is directly related to the size and scope of the disaster, and is unpredictable in advance
<b>Environment</b>	Depends on location and type of incident
<b>Economic Condition</b>	Associated hazards could potentially include: shootings, broken gas lines, explosions, structural fires, HAZMAT Releases, contamination, strained local resources, traffic accidents, mass casualties, civil disturbance, structural collapse, etc.
<b>Public Confidence</b>	Santa Rosa EM has held multiple trainings, and been asked to participate in school safety committees, gaining public confidence. 25,000 disaster guides are printed and distributed to the public annually. EM is invited to speak at multiple civic/social functions annually.
<b>Civil Disturbance</b>	
<b>Impacts</b>	
<b>Public and Responders</b>	Anyone can be affected, but particularly within the city limits, or near centers of government, courthouses, shopping facilities, or near a source of controversy. Physical injury such as burns, blunt trauma, gunshot wounds, death, or other injuries may occur as a result of civil disorder.
<b>Continuity of Operations</b>	Depends on location and severity of incident
<b>Property, Facilities, and Infrastructure</b>	Water Systems, Transportation Systems, and Food Distribution networks government facilities, or other infrastructure could be at risk of civil disorder.
<b>Environment</b>	N/A
<b>Economic Condition</b>	Potentially all economic sectors could be vulnerable to the impact of civil disorder. Potential economic impact is directly related to the size and scope of the disaster, and is unpredictable in advance
<b>Public Confidence</b>	25,000 disaster guides are printed and distributed to the public annually. EM is invited to speak at multiple civic/social functions annually.
<b>Coastal Oil Spills</b>	
<b>Impacts</b>	
<b>Public and Responders</b>	Vulnerable populations include those that are in direct contact with the oil or dependent on water quality for

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	economic livelihood
<b>Continuity of Operations</b>	As oil contamination is a health hazard, structural vulnerability could arise due to the absorbent nature of certain building materials and would depend on the extent of infiltration and the ability to remediate the contamination
<b>Property, Facilities, and Infrastructure</b>	Vulnerability exists for Water Systems (source, structures and distribution network)
<b>Environment</b>	Locations along the Gulf of Mexico, Santa Rosa Sound, Gulf Breeze peninsula, Garcon Point, Escambia and East Bay, and all rivers and streams could be vulnerable to this hazard. Additionally, properties along pipeline routes are vulnerable to oil spills.
<b>Economic Condition</b>	Water dependent industries, such as the tourism, seafood, fuel, and boating industries, are vulnerable to this hazard. In addition, those who are dependent on the aforementioned industries are also vulnerable to the effects of coastal oil spills. Potential economic impact is directly related to the size and scope of the disaster and is unpredictable in advance.
<b>Public Confidence</b>	Santa Rosa EM gained public confidence during Deepwater Horizon oil spill. 25,000 disaster guides are printed and distributed to the public annually. EM is invited to speak at multiple civic/social functions annually.
<b>Critical Infrastructure Disruption</b>	
<b>Impacts</b>	
<b>Public and Responders</b>	Depends on location and type of incident
<b>Continuity of Operations</b>	Depends on location and type of incident
<b>Property, Facilities, and Infrastructure</b>	All geographic locations containing critical infrastructures or served by Critical infrastructures are vulnerable
<b>Environment</b>	Depends on location and type of incident
<b>Economic Condition</b>	Particularly vulnerable are power-dependent industries, utilities and government, A longer period of disruption, particularly to the Internet or power generation/distribution capability has an immediate effect on productivity and may result in financial loss to many business sectors. Potential economic impact is directly related to the size and scope of the disaster and is unpredictable in advance.
<b>Public Confidence</b>	25,000 disaster guides are printed and distributed to the public annually. EM is invited to speak at multiple civic/social functions annually.
<b>Fire</b>	
<b>Impacts</b>	
<b>Public and Responders</b>	Vulnerability to structure fires may be increased for the elderly, young children, or those with physical handicaps. Additionally, the impoverished, may be more apt to live in conditions favorable for fires, and are subsequently more vulnerable to fires. The elderly, young children, and those with existing respiratory ailments may be more vulnerable to respiratory distress caused by smoke from wildfires. Responders must take all necessary precautions.

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<b>Continuity of Operations</b>	All structures are vulnerable to fire; however, vulnerability is increased for those with older or faulty electrical systems, those that lack or have inadequate smoke detectors or alarms, those without interior sprinkler systems, wood structures, etc
<b>Property, Facilities, and Infrastructure</b>	Infrastructure is vulnerable to fires, as transportation routes may be blocked during the response to wildfires, critical facilities along the urban rural interface may be more vulnerable to the direct effect of fire, or to associated hazards.
<b>Environment</b>	All geographic locations are vulnerable to fires. At particular risk are those structures and agricultural operations along the rural/urban interface. Vacant fields, woodlands, lots, and acreage connect communities to the rural/urban interface. This could allow fires to come into subdivisions and neighborhoods in urban and suburban areas.
<b>Economic Condition</b>	Each employment sector is potentially vulnerable to fire. Such precautions as fire escape plans, smoke detectors/alarms, sprinkler systems, continuity of operations planning, insurance, and contingency planning for the protection of critical records, helps to reduce the vulnerability associated with a potential fire. Potential economic impact is directly related to the size and scope of the disaster and is unpredictable in advance.
<b>Public Confidence</b>	25,000 disaster guides are printed and distributed to the public annually. EM is invited to speak at multiple civic/social functions annually.
<b>Flooding/Storm Surge</b>	
<b>Impacts</b>	
<b>Public and Responders</b>	All populations within the floodplain in Santa Rosa County are vulnerable to injury or structural damage. Typical injuries may result from: falling trees/limbs, downed power lines, structural collapse, rising flood waters, vehicle accidents/submersion, drowning, contaminated water, water-borne illnesses, mosquito-borne illnesses, Mold-induced illnesses, sewerage contamination, animal bites
<b>Continuity of Operations</b>	Structures built at-grade within flood-prone areas are more vulnerable than sufficiently raised houses. Structural vulnerability depends on elevation, proximity to bodies of water, capacity of community drainage systems, impediments to water flow, soil saturation, and other factors. Drywall, carpet, wood, and other materials are particularly vulnerable to flood damage. Structural, electrical, plumbing, and flooring systems may be compromised and contribute to the risk of other hazards. Additionally, flooding can cause mold growth on structural components or personal belongings.
<b>Property, Facilities, and Infrastructure</b>	Community infrastructure is vulnerable to disruption/failure. The primary disruption is associated with flooded or undermined roads, clogged drainage systems, power outages, communications failure, flooded/overwhelmed/ powerless water treatment facilities, inaccessible community services
<b>Environment</b>	All geographic locations within Santa Rosa County are vulnerable due to relatively flat topography and a humid subtropical climate. Of the 2,207 miles of State and County roads, 331 miles are within the 100-year flood zone and 14 miles are within the 500-year flood zone not including the hundreds of undocumented rural roads. Floodwaters associated with severe storms, can affect those in low-lying areas, areas of poor-drainage

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	or along bodies of water.
<b>Economic Condition</b>	All economic sectors are vulnerable to loss from flooding. Business vulnerability is dependent on the degree of preparedness for continuity of operations, protection of key electrical components, ability to quickly restore functioning, and mitigative types of insurances (such as for flood damage, lost income, structural repairs etc). Businesses may also be vulnerable to loss of product/facilities, supply disruption, loss of important paperwork, shifting of consumer spending to emergency/ replacement needs. Potential economic impact is directly related to the size and scope of the disaster and is unpredictable in advance Specific vulnerabilities exist for Farm Workers. Floods can destroy crops, equipment, farmhouses, storage bins, and result in personal or economic loss. While most farming operations are dependent on rainfall, flooding rains can damage fragile crops and erode nutrient layers in soil.
<b>Public Confidence</b>	Santa Rosa has a lot of experience with floods and EMs handling of these issues builds public confidence. Also, 25,000 disaster guides are printed and distributed to the public annually. Santa Rosa teaches CERT in 3 HSs and has two CERT teams. EM is invited to speak at multiple civic/social functions annually. Santa Rosa has one of the few Flood plans in the state and had public engagement during its creation.
<b>Hazardous Materials Incidents</b>	
<b>Impacts</b>	
<b>Public and Responders</b>	Injuries vary with chemical involved. Material Safety Data Sheet's (MSDS), the most current Emergency Response Guidebooks (ERG), NIOSH pocket guide, ATSDR publications, and emergency hotlines such as CHEMTREC offer chemical- specific injury details and protective measures. Generally, routes of exposure include inhalation, ingestion, and physical contact, and may lead to respiratory distress, organ failure, burns or death
<b>Continuity of Operations</b>	Vulnerability exists for occupants of structures where AC/Heat is inaccessible or controlled off premises, or for those facilities built specifically to exchange air (such as prisons, etc). Structural vulnerability also exists due to explosive potential associated with the release of certain chemicals.
<b>Property, Facilities, and Infrastructure</b>	The primary infrastructure disruption associated with major hazardous materials releases is overwhelmed health and medical services. Additionally, emergency response capabilities, such as fire, HAZMAT Teams, search and rescue, decontamination, ambulance, police may also be overwhelmed
<b>Environment</b>	All locations in close proximity to fixed facilities, highway, rail, plane, pipeline, and barge/boat traffic. Particularly vulnerable are those locations near Interstate 10, Hwy 90, Hwy 98, Air Products, Sterling Fibers, Whiting Field, and Exxon Mobil. Vulnerability also exists in those locations near any of 136 sites that store hazardous materials in Santa Rosa County, and include neighborhoods near water treatment facilities, water wells, pump or lift stations.
<b>Economic Condition</b>	All economic sectors are vulnerable, however, for hazardous materials releases; primary vulnerability issues exist for the spiller. The potential for downtime, loss production, profit loss, liability, and other issues may have a trickledown effect on other occupations. Additionally, occupations such as tourism, and other industries may be impacted if such a release impedes the function or quality of local waterways. Potential

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	economic impact is directly related to the size and scope of the disaster and is unpredictable in advance.
<b>Public Confidence</b>	Santa Rosa has had several experiences with hazardous materials. Training for the public has been widespread to increase public confidence. 25,000 disaster guides are printed and distributed to the public annually. EM is invited to speak at multiple civic/social functions annually.
<b>Heat Waves/Drought</b>	
<b>Impacts</b>	
<b>Public and Responders</b>	Outdoor workers, Elderly persons, small children, invalid, homeless, those on certain medications or drugs (especially tranquilizers and anticholinergics), and persons with weight and alcohol problems are particularly susceptible to heat reactions. Additionally, impoverished individuals are more vulnerable as they may reduce or eliminate the use of A/C systems due to rising cooling costs.
<b>Continuity of Operations</b>	Structures may be vulnerable to structural expansion, soil erosion, soil contraction, and fires.
<b>Property, Facilities, and Infrastructure</b>	Power lines are vulnerable to heat wave, as they sag more than normal when heated and can contact nearby trees, taking the line out of service, and shifting load to other lines. Vulnerability also lies in the increased demand and reliability of the transmission. Drought-induced water shortages may result as water sources declines and demands for personal consumption and firefighting increase.
<b>Environment</b>	Could jeopardize Santa Rosa County's \$20,000,000 + agricultural production. Could produce fires.
<b>Economic Condition</b>	Drought/Heat wave can cause crop failure, wildfires, energy shortages, municipal water shortages, higher energy prices, and fish and wildlife mortality, and, therefore, affects many sectors of the economy—particularly agricultural, energy, and tourism, as well as municipalities, government. Potential economic impact is directly related to the size and scope of the disaster and is unpredictable in advance.
<b>Public Confidence</b>	Santa Rosa has been through droughts and heat waves without public complaint. 25,000 disaster guides are printed and distributed to the public annually. EM is invited to speak at multiple civic/social functions annually.
<b>Hurricanes/Tropical Storms</b>	
<b>Impacts</b>	
<b>Public and Responders</b>	Typical injuries may result from: Wind- blown debris, falling limbs, downed power lines, structural collapse, rising flood waters, vehicle accidents, heat stress, lack of food/water/ medical treatment/medicines, loss of access to emergency services. Additional injuries may occur during the post event cleanup: Chainsaw Injuries, Falls from heights, Animal Bites (wasps, spiders, snakes, dogs etc), Heat Stress, Overexertion, Mold-induced respiratory conditions, hepatitis A and B, tetanus, mosquito-borne illnesses, heart attacks/stroke, increased stress, mental anxiety etc.
<b>Continuity of Operations</b>	All structures are vulnerable to hurricane damage. In general, sheds, pool coverings, lanais, carports, billboards/outdoor signage, Mobile Homes, already compromised structures and homes built to less stringent building codes (Pre 2001 Florida Building Code) are the most vulnerable to structural damage from collapse, tree damage, wind damage, lift-off, and other nature- forced movement. Roof and window systems are another source of structural vulnerability. Accessories attached to roof systems, can lead to roof

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	failure, as can excessive winds, falling trees and wind-blown debris.
<b>Property, Facilities, and Infrastructure</b>	Community infrastructure is vulnerable to considerable disruption/failure. Examples include: Road and bridge failure/blockage or compromise, gas leaks, compromised electric delivery systems, jammed cell and land line phones / downed towers / flooded switches/ broken lines, sewerage lift station failure, flooded/overwhelmed/powerless water treatment facilities
<b>Environment</b>	All geographic locations within Santa Rosa County are vulnerable; however, damaging winds and storm surge effects can be expected to be most intense along the Southern coastal border including Gulf Breeze, Midway, and Navarre Beach. Such coastal settings are the most sought-after properties, with the potential for increased populations, and thus are at higher risk of property and personal damage. Coastal surge can also be expected to push up the bays and river systems flooding homes and businesses along water features. Locations further inland may experience lesser wind fields but may still see significant damage.
<b>Economic Condition</b>	Businesses are vulnerable to loss of product/ facilities, displaced or loss of workers and customer base, supply disruption, loss of important paperwork, shifting of consumer spending to emergency/ replacement needs. All affect the economy of Santa Rosa County. This economic disruption may be offset somewhat by the significant boost in business for reconstruction occupations as residents rebuild, replace, and repair. All employment sectors are vulnerable; however, specific vulnerabilities exist for Farm Workers whose livelihood is vulnerable due to wind- damaged/flooded crops, eroded nutrient layers, loss of farm equipment/storage, increased pests/disease, disruption in supply and distribution. Potential economic impact is directly related to the size and scope of the disaster.
<b>Public Confidence</b>	25,000 disaster guides are printed and distributed to the public annually. Santa Rosa teaches CERT in 3 HSs and has two CERT teams. EM is invited to speak at multiple civic/social functions annually. Volume 3-1 of the Florida Evacuation Study states that over 70% over people in the Panhandle have evacuation plans. 31% of Santa Rosans get storm information from the internet. SRC has a FB page and web site.
<b>Inadequate Water Supply and/or Contamination</b>	
<b>Impacts</b>	
<b>Public and Responders</b>	All populations are vulnerable to inadequate or contaminated water supply
<b>Continuity of Operations</b>	N/A
<b>Property, Facilities, and Infrastructure</b>	Vulnerability exists for Water Systems (source, structures and distribution network)
<b>Environment</b>	Could affect agriculture. Could cause more wildfires.
<b>Economic Condition</b>	The water systems in Santa Rosa County support agriculture, commercial/recreational fishing, marine transportation, outdoor recreation, public water supply, and tourism. Contamination to the water supply threatens these activities and can contribute to decreased quality of life and adverse health conditions. As such, the economy would be vulnerable to disruption from inadequate or contaminated water supply. Potential economic impact is directly related to the size and scope of the disaster and is unpredictable in advance.

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<b>Public Confidence</b>	Santa Rosa passed a well field protection ordinance with participation from EM and a lot of public involvement. 25,000 disaster guides are printed and distributed to the public annually. EM is invited to speak at multiple civic/social functions annually.
<b>Land Erosion / Expansive Soil</b>	
<b>Impacts</b>	
<b>Public and Responders</b>	Special populations may be more vulnerable to the associated hazards that may occur as a result of erosion. Such may include medically needy, handicapped, visually impaired due to physical mobility or impediments to situational awareness, particularly with collapse, ruptured gas lines, or flooding.
<b>Continuity of Operations</b>	Depends on location and severity of incident
<b>Property, Facilities, and Infrastructure</b>	Erosion can undermine structures or roadways and fill drainage systems, natural creeks, and water bodies with sediment. It can also undermine drainage pipes and water mains.
<b>Environment</b>	Land Erosion such as Sheet erosion, rills, gullies, and alluvial fans occurs in the northern two thirds of the County and along unpaved roadways in hilly areas. Potential also exists for erosion in the cities of Gulf Breeze and Milton. River erosion is found where bluffs occur. Areas can include rivers such as Blackwater, Big Coldwater, Big Juniper, and their tributaries. The lower Blackwater (from near the entrance of Clear Creek westward), the Yellow, Escambia, and East Bay River are slower rivers with wide floodplains and little, if any, erosion. Steephead valleys surrounding these rivers, however, may be subject to erosion. Santa Rosa Island is vulnerable to Coastal erosion, particularly at Gulf Breeze and Navarre Beach.
<b>Economic Condition</b>	Vulnerability of businesses exists to the extent that the facilities of such establishments may be located in erosion/expansion vulnerable areas. Potential economic impact is directly related to the size and scope of the disaster and is unpredictable in advance.
<b>Public Confidence</b>	25,000 disaster guides are printed and distributed to the public annually. EM is invited to speak at multiple civic/social functions annually.
<b>Major Transportation Incidents</b>	
<b>Impacts</b>	
<b>Public and Responders</b>	Trauma, burns, entrapment, chemical contamination/burns, toxic smoke inhalation, respiratory illnesses, death
<b>Continuity of Operations</b>	N/A
<b>Property, Facilities, and Infrastructure</b>	Transportation Incidents may affect or directly impact any critical facility including transportation and energy systems, defense installations, banking and financial assets, water supplies, chemical plants, food and agricultural resources, police and fire departments, hospitals and public health systems, and government offices.
<b>Environment</b>	All roadways, highways, and waterways are vulnerable, but particularly those locations near Interstate 10, Hwy 90, Hwy 98, Fl. 4, 87, 89, 197, 281, locations near barge/boat traffic, under the pathways of air transportation, or near railroads.
<b>Economic Condition</b>	A longer period of disruption to major transportation routes may have an immediate effect on productivity

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	and result in financial loss to all business sectors. Potential economic impact is directly related to the size and scope of the disaster and is unpredictable in advance.
<b>Public Confidence</b>	25,000 disaster guides are printed and distributed to the public annually. EM is invited to speak at multiple civic/social functions annually.
<b>Mass Exodus/Immigration</b>	
<b>Impacts</b>	
<b>Public and Responders</b>	All populations are vulnerable to increased difficulty, financial or physical loss as a result of any mass exodus, or migration out of the county. Young children are vulnerable to separation from their parents or loved ones. The elderly and medically needy may be separated from their established lines of essential medical services. Traditional lines of communication amongst families may be non-functional or overloaded. All are vulnerable to financial loss and mental anxiety as result of such activity.
<b>Continuity of Operations</b>	N/A
<b>Property, Facilities, and Infrastructure</b>	Vulnerability potentially exists for Water Systems, Transportation Systems, and Food Distribution networks to support mass immigration into Santa Rosa County or in preparation for exodus out of Santa Rosa County.
<b>Environment</b>	N/A
<b>Economic Condition</b>	Potentially all economic sectors could be vulnerable to the loss of workers, buyers, or product resulting from mass exodus out of Santa Rosa County. Potential economic impact is directly related to the size and scope of the disaster and is unpredictable in advance.
<b>Public Confidence</b>	Disaster Guides are printed and distributed to the public annually. EM is invited to speak at multiple civic/social functions annually.
<b>Public Health Threats</b>	
<b>Impacts</b>	
<b>Public and Responders</b>	All personnel are at risk and proper PPE and appropriate safety protocols must be adhered to.
<b>Continuity of Operations</b>	N/A
<b>Property, Facilities, and Infrastructure</b>	Vulnerability potentially exists for Water Systems and Food Distribution networks depending on the threat.
<b>Environment</b>	N/A
<b>Economic Condition</b>	Potentially all economic sectors could be vulnerable to the loss of workers, buyers, or product resulting from widespread public health threats. Additionally, agriculture, commercial/recreational fishing, marine transportation, outdoor recreation, public water supply, and tourism industries have an increased vulnerability. Potential economic impact is directly related to the size and scope of the disaster and is unpredictable in advance.
<b>Public Confidence</b>	EM has been involved in the H5N1 preparation, H1N1 response, rabies vaccine exercises, and Ebola preparation gaining public confidence. 25,000 disaster guides are printed and distributed to the public annually. EM is invited to speak at multiple civic/social functions annually

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<b>Terrorism/Weapons of Mass Destruction</b>	
<b>Impacts</b>	
<b>Public and Responders</b>	Particular populations may have additional risks as terrorists may target these populations. This may include school-aged youth, churchgoers, tourists, emergency responders, government, healthcare, financial, industrial and transportation workers.
<b>Continuity of Operations</b>	All structures and personnel are vulnerable to Explosives/Incendiary Devices
<b>Property, Facilities, and Infrastructure</b>	Infrastructure is vulnerable to explosives/incendiary devices; Such an event could disrupt community services, utilities, and transportation routes and quickly overwhelm emergency response capabilities, such as search and rescue, fire, ambulance, hospital and police.
<b>Environment</b>	All geographic locations are vulnerable to Terrorism/WMD events. At particular risk are high-profile locations/facilities, business/industry with local, regional, and/or national economic ramifications, areas of lax security and high potential impact, locations near government centers, public events, densely populated areas, geographic locations near hazardous materials transportation, usage or storage (see HAZMAT Vulnerability Chart -CEMP Basic pg 33), area waterways, community food networks, restaurants, mass transportation, tourist destinations, schools, churches, government and civic centers, or facilities using/storing Biological, Nuclear, Incendiary, Chemical, or Explosives (B-NICE)
<b>Economic Condition</b>	All employment sectors are vulnerable to terrorism through the use of Weapons of Mass Destruction; either directly, or indirectly, such as through increased transportation costs, security costs, additional precautions, loss of customer or employee base, etc. For biological terrorism, the impact, if widespread, as in a pandemic, could cripple economic sectors and individual organizations due to loss of employees and/or customer base. Potential economic impact is directly related to the size and scope of the disaster and is unpredictable in advance.
<b>Public Confidence</b>	25,000 disaster guides are printed and distributed to the public annually. EM is invited to speak at multiple civic/social functions annually.
<b>Thunderstorms/Lightning /Tornado</b>	
<b>Impacts</b>	
<b>Public and Responders</b>	Typical injuries may result from: Vehicle accidents, wind-blown debris, falling limbs, lightning strikes, downed power lines, structural collapse, rising flood waters, mold-induced illnesses, contaminated waters
<b>Continuity of Operations</b>	All structures are vulnerable to severe thunderstorms/lightning/tornado damage. Thunderstorms can result in water damage via localized flooding or through wind- driven water entering older or compromised roof systems. Structural vulnerability lies in the inability to withstand the cyclonic action of the winds.
<b>Property, Facilities, and Infrastructure</b>	Community infrastructure is vulnerable to disruption/failure. The primary disruption is associated with power outages. Other possibilities include: Flooded, undermined or impassable roads, clogged drainage systems, communications failure, flooded/overwhelmed/powerless water treatment facilities
<b>Environment</b>	All geographic locations within Santa Rosa County are vulnerable, including the coastline where tornadoes over water or “waterspouts” are possible. Rising floodwaters associated with severe storms, can affect those

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	in low-lying areas, areas of poor-drainage or along bodies of water.
<b>Economic Condition</b>	For severe thunderstorms/tornadoes, economic sectors dependent on computers, power, or fair weather are vulnerable to disruption and loss. Business vulnerability is dependent on the degree of preparedness for continuity of operations, protection of key electrical components, ability to quickly restore functioning, and mitigative types of insurances (such as for flood damage, lost income, structural repairs etc). Businesses may also be vulnerable to loss of product/facilities, supply disruption, loss of important paperwork, shifting of consumer spending to emergency/replacement needs. Storms with widespread damage have the potential to disrupt the local economy. Potential economic impact is directly related to the size and scope of the disaster and is unpredictable in advance.
<b>Public Confidence</b>	25,000 disaster guides are printed and distributed to the public annually. Santa Rosa teaches CERT in 3 HSs and has two CERT teams. EM is invited to speak at multiple civic/social functions annually. Volume 3-1 of the Florida Evacuation Study states that over 70% over people in the Panhandle have evacuation plans. 31% of Santa Rosans get storm information from the internet. SRC has a FB page and web site.
<b>Tsunami / Rogue Wave</b>	
<b>Impacts</b>	
<b>Public and Responders</b>	All populations within the floodplain in Santa Rosa County are vulnerable to injury or structural damage. Typical injuries may result from: falling trees/limbs, downed power lines, structural collapse, rising flood waters, vehicle accidents/submersion, drowning, contaminated water, water-borne illnesses, mosquito-borne illnesses, Mold-induced illnesses, sewerage contamination, animal bites
<b>Continuity of Operations</b>	Structures built at-grade within flood-prone areas are more vulnerable than sufficiently raised houses. Structural vulnerability depends on elevation, proximity to bodies of water, capacity of community drainage systems, impediments to water flow, soil saturation, and other factors. Drywall, carpet, wood, and other materials are particularly vulnerable to flood damage. Structural, electrical, plumbing, and flooring systems may be compromised and contribute to the risk of other hazards. Additionally, flooding can cause mold growth on structural components or personal belongings.
<b>Property, Facilities, and Infrastructure</b>	Community infrastructure is vulnerable to disruption/failure. The primary disruption is associated with flooded or undermined roads, clogged drainage systems, power outages, communications failure, flooded/overwhelmed/ powerless water treatment facilities, inaccessible community services
<b>Environment</b>	All geographic locations within Santa Rosa County are vulnerable due to relatively flat topography and a humid subtropical climate. Of the 2,207 miles of State and County roads, 331 miles are within the 100-year flood zone and 14 miles are within the 500-year flood zone not including the hundreds of undocumented rural roads. Floodwaters associated with severe storms, can affect those in low-lying areas, areas of poor-drainage or along bodies of water.
<b>Economic Condition</b>	All economic sectors are vulnerable to loss from flooding. Business vulnerability is dependent on the degree of preparedness for continuity of operations, protection of key electrical components, ability to quickly restore functioning, and mitigative types of insurances (such as for flood damage, lost income, structural

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	repairs etc). Businesses may also be vulnerable to loss of product/facilities, supply disruption, loss of important paperwork, shifting of consumer spending to emergency/ replacement needs. Potential economic impact is directly related to the size and scope of the disaster and is unpredictable in advance Specific vulnerabilities exist for Farm Workers. Floods can destroy crops, equipment, farmhouses, storage bins, and result in personal or economic loss. While most farming operations are dependent on rainfall, flooding rains can damage fragile crops and erode nutrient layers in soil.
<b>Public Confidence</b>	Santa Rosa has a lot of experience with floods and EMs handling of these issues builds public confidence. Also, 25,000 disaster guides are printed and distributed to the public annually. Santa Rosa teaches CERT in 3 HSs and has two CERT teams. EM is invited to speak at multiple civic/social functions annually. Santa Rosa has one of the few Flood plans in the state and had public engagement during its creation.
<b>Winter Storm, Freeze</b>	
<b>Impacts</b>	
<b>Public and Responders</b>	All populations are vulnerable to effects of winter storms, particularly compounded due to potential utility loss at a critical time when heating is needed. Those without access to portable heaters and generators are more vulnerable.
<b>Continuity of Operations</b>	All structures are vulnerable to winter storm damage. In general, structures are the most vulnerable to tree damage; hail, burst or uprooted water pipes and gas lines. Additionally, elevated structures are more vulnerable to the bursting of water pipes associated with freezing temperatures.
<b>Property, Facilities, and Infrastructure</b>	Power and communication systems using overhead lines are usually the hardest hit by ice storms. Additionally, gas and water lines are vulnerable to tree damage and extreme temperatures. Roads and bridges may be impassible due to storm debris, or icing.
<b>Environment</b>	No environmental impacts that are within the control of the county.
<b>Economic Condition</b>	Economic sectors such as utilities, government, construction, agriculture, and other outdoor related sectors are vulnerable to the impact of winter storms; in the case of severe ice storm scenarios, all employment sectors could be affected. Businesses are vulnerable to loss of production, supply disruption, displaced workers, shifting of consumer spending to emergency/replacement needs. All affect the economy of Santa Rosa County
<b>Public Confidence</b>	Santa Rosa has recently experienced weather of this kind and did very well in the eyes of the public. This kind of disaster was added to our disaster guide. 25,000 disaster guides are printed and distributed to the public annually. EM is invited to speak at multiple civic/social functions annually.