APPENDIX A -K

Palm Beach County Local Mitigation Strategy Hazard Identification and Risk Assessment/Consequence Analysis 2021 for LMS2024

Appendix A: Introduction

The risk and vulnerability data presented in this Appendix addresses, in part, the following FEMA requirements:

> **RISK ASSESSMENT: §201.6(c)(2):** The plan must include a risk assessment that provides the factual basis for activities proposed in the strategy to reduce losses from identified hazards. Local risk assessments must provide sufficient information to enable the jurisdiction to identify and prioritize appropriate mitigation actions to reduce losses from identified hazards.
>
> **Requirement §201.6(c)(2)(iii):** For multi-jurisdictional plans, the risk assessment must assess each jurisdiction's risks where they vary from the risks facing the entire planning area.
>
> **Requirement §201.6(c)(2)(i):** The risk assessment shall include a description of the type, location, and extent of all natural hazards that can affect the jurisdiction. The plan shall include information on previous occurrences of hazard events and on the probability of future hazard events.
>
> **Requirement §201.6(c)(2)(ii):** The risk assessment must include a description of the jurisdiction's vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description must include an overall summary of each hazard and its impact on the community.

The Palm Beach Hazard Identification and Risk Assessment covers the following 24 hazards:

Natural	Technological	Human-Caused
Floods	Dam/Dike Failure	Civil Disturbances
Hurricane/Tropical Storms	Hazardous Materials Accident	Domestic Security
Severe Thunderstorm/Lightning	Radiological Incidents (Nuclear Power Plant)	Cybersecurity
Sea Level Rise	Communication Failures	Workplace/School Violence
Soil/Beach Erosion	Transportation System Accidents	Harmful Algal Bloom
Tornadoes	Wellfield Contaminations	Mass Migration
Wildfires/Urban Interface Zone	Power Failure (Outages)	
Pandemic/Communicable Diseases		
Drought		
Agricultural Pests & Diseases		
Muck Fires		
Seismic Hazards		
Geologic Hazards		
Extreme Temperatures		

Methodology for Hazard Identification and Risk Assessment

Hazards for local municipalities in Palm Beach County were assessed using the following considerations:

Probability	How often a known hazard produces an impact within the community?
Vulnerability	How quickly the municipality can recover from the results of the hazard?
Exposure	What is extent the hazard impacts life, property, and community resources?
Overall Risk	What is the overall risk for the hazard?

The following definitions were used:

Very Low	Event probability rarely ever occurs and there is zero to minimal impact from the hazard (less than 5%).
Low	Event probability occurs greater than every 11 years and there is not likely to have any measurable or lasting impact from the hazard (5%).
Medium	Event probability occurs approximately every two to ten years and there is a likelihood (between 5 to 14%) the hazard will have short-term to foreseeable impacts.
High	Event probability occurs annually and there is a strong likelihood (15% or more) the hazard will have lasting impacts on the community.

This assessment yielded an overall risk rating for each individual hazard. While Unincorporated Palm Beach County is considered all that is not incorporated as a municipality for the purpose of this assessment, it accounts for the entirety of the county.

Hazard Identification and Risk Assessment for Municipal Governments (Natural Hazards)

Table A-1: Flooding

2024 Local Mitigation Strategy Section 2.1.1

Hazard Assessment H: High M: Medium L: Low V: Very Low	Unincorporated County	MUNICIPALITIES																																										
		Atlantis	Belle Glade	Boca Raton	Boynton Beach	Briny Breezes	Cloud Lake	Delray Beach	Glen Ridge	Golf	Greenacres	Gulf Stream	Haverhill	Highland Beach	Hypoluxo	Juno Beach	Jupiter	Jupiter Inlet Colony	Lake Clarke Shores	Lake Park	Lake Worth Beach	Lantana	Loxahatchee Groves	Manalapan	Mangonia Park	North Palm Beach	Ocean Ridge	Pahokee	Palm Beach	Palm Beach Gardens	Palm Beach Shores	Palm Springs	Riviera Beach	Royal Palm Beach	South Bay	South Palm Beach	Tequesta	Wellington	Westlake	West Palm Beach				
Probability	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H				
Vulnerability	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H				
Exposure	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H				
Overall Risk	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H				

Table A-2: Hurricanes/Tropical Storms
2024 Local Mitigation Strategy 2.1.2

Hazard Assessment H: High M: Medium L: Low V: Very Low	MUNICIPALITIES																																							
	Unincorporated County	Atlantis	Belle Glade	Boca Raton	Boynton Beach	Briny Breezes	Cloud Lake	Delray Beach	Glen Ridge	Golf	Greenacres	Gulf Stream	Haverhill	Highland Beach	Hypoluxo	Juno Beach	Jupiter	Jupiter Inlet Colony	Lake Clarke Shores	Lake Park	Lake Worth Beach	Lantana	Loxahatchee Groves	Manalapan	Mangonia Park	North Palm Beach	Ocean Ridge	Pahokee	Palm Beach	Palm Beach Gardens	Palm Beach Shores	Palm Springs	Riviera Beach	Royal Palm Beach	South Bay	South Palm Beach	Tequesta	Wellington	Westlake	West Palm Beach
Probability	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
Vulnerability	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
Exposure	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
Overall Risk	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H

Table A-3: Severe Thunderstorms/Lightning
2024 Local Mitigation Strategy Section 2.1.3

Hazard Assessment H: High M: Medium L: Low V: Very Low	MUNICIPALITIES																																							
	Unincorporated County	Atlantis	Belle Glade	Boca Raton	Boynton Beach	Briny Breezes	Cloud Lake	Delray Beach	Glen Ridge	Golf	Greenacres	Gulf Stream	Haverhill	Highland Beach	Hypoluxo	Juno Beach	Jupiter	Jupiter Inlet Colony	Lake Clarke Shores	Lake Park	Lake Worth Beach	Lantana	Loxahatchee Groves	Manalapan	Mangonia Park	North Palm Beach	Ocean Ridge	Pahokee	Palm Beach	Palm Beach Gardens	Palm Beach Shores	Palm Springs	Riviera Beach	Royal Palm Beach	South Bay	South Palm Beach	Tequesta	Wellington	Westlake	West Palm Beach
Probability	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
Vulnerability	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Exposure	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Overall Risk	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M

Table A-4: Sea Level Rise
2024 Local Mitigation Strategy Section 2.1.4

Hazard Assessment H: High M: Medium L: Low V: Very Low	Unincorporated County	MUNICIPALITIES																																						
		Atlantis	Belle Glade	Boca Raton	Boynton Beach	Briny Breezes	Cloud Lake	Delray Beach	Glen Ridge	Golf	Greenacres	Gulf Stream	Haverhill	Highland Beach	Hypoluxo	Juno Beach	Jupiter	Jupiter Inlet Colony	Lake Clarke Shores	Lake Park	Lake Worth Beach	Lantana	Loxahatchee Groves	Manalapan	Mangonia Park	North Palm Beach	Ocean Ridge	Pahokee	Palm Beach	Palm Beach Gardens	Palm Beach Shores	Palm Springs	Riviera Beach	Royal Palm Beach	South Bay	South Palm Beach	Tequesta	Wellington	Westlake	West Palm Beach
Probability	M	V	V	H	H	H	V	H	V	V	V	H	V	H	H	H	H	H	V	H	H	H	V	H	V	H	H	V	H	L	H	V	H	V	V	H	H	V	V	H
Vulnerability	M	V	V	H	H	H	V	H	V	V	V	H	V	H	H	H	H	H	V	H	H	H	V	H	V	H	H	V	H	L	H	V	H	V	V	H	H	V	V	H
Exposure	M	V	V	M	M	M	V	M	V	V	V	M	V	M	M	M	M	M	V	M	M	M	V	M	V	M	M	V	M	L	M	V	M	V	V	M	M	V	V	M
Overall Risk	M	V	V	H	H	H	V	H	V	V	V	H	V	H	H	H	H	H	V	H	H	H	V	H	V	H	H	V	H	L	H	V	H	V	V	H	H	V	V	H

Table A-5: Soil/Beach Erosion
2024 Local Mitigation Strategy Section 2.1.5

Hazard Assessment H: High M: Medium L: Low V: Very Low	Unincorporated County	MUNICIPALITIES																																						
		Atlantis	Belle Glade	Boca Raton	Boynton Beach	Briny Breezes	Cloud Lake	Delray Beach	Glen Ridge	Golf	Greenacres	Gulf Stream	Haverhill	Highland Beach	Hypoluxo	Juno Beach	Jupiter	Jupiter Inlet Colony	Lake Clarke Shores	Lake Park	Lake Worth Beach	Lantana	Loxahatchee Groves	Manalapan	Mangonia Park	North Palm Beach	Ocean Ridge	Pahokee	Palm Beach	Palm Beach Gardens	Palm Beach Shores	Palm Springs	Riviera Beach	Royal Palm Beach	South Bay	South Palm Beach	Tequesta	Wellington	Westlake	West Palm Beach
Probability	M	V	V	H	H	H	V	H	V	V	V	H	V	H	M	H	H	H	V	M	H	H	V	M	V	H	H	V	H	L	H	V	H	V	V	H	H	V	V	M
Vulnerability	M	V	V	H	H	H	V	H	V	V	V	H	V	H	M	H	H	H	V	M	H	H	V	M	V	H	H	V	H	L	H	V	H	V	V	H	H	V	V	M
Exposure	M	V	V	M	M	M	V	M	V	V	V	M	V	M	M	M	M	M	V	M	M	M	V	M	V	M	M	V	M	L	M	V	M	V	V	M	M	V	V	M
Overall Risk	M	V	V	H	H	H	V	H	V	V	V	H	V	H	M	H	H	H	V	M	H	H	V	M	V	H	H	V	H	L	H	V	H	V	V	H	H	V	V	M

Table A-6: Tornadoes
2024 Local Mitigation Strategy Section 2.1.6

Hazard Assessment H: High M: Medium L: Low V: Very Low	MUNICIPALITIES																																								
	Unincorporated County	Atlantis	Belle Glade	Boca Raton	Boynton Beach	Briny Breezes	Cloud Lake	Delray Beach	Glen Ridge	Golf	Greenacres	Gulf Stream	Haverhill	Highland Beach	Hypoluxo	Juno Beach	Jupiter	Jupiter Inlet Colony	Lake Clarke Shores	Lake Park	Lake Worth Beach	Lantana	Loxahatchee Groves	Manalapan	Mangonia Park	North Palm Beach	Ocean Ridge	Pahokee	Palm Beach	Palm Beach Gardens	Palm Beach Shores	Palm Springs	Riviera Beach	Royal Palm Beach	South Bay	South Palm Beach	Tequesta	Wellington	Westlake	West Palm Beach
Probability	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Vulnerability	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
Exposure	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
Overall Risk	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L

Table A-7: Wildfires/Urban Interface
2024 Local Mitigation Strategy 2.1.7

Hazard Assessment H: High M: Medium L: Low V: Very Low	Unincorporated County	MUNICIPALITIES																																						
		Atlantis	Belle Glade	Boca Raton	Boynton Beach	Briny Breezes	Cloud Lake	Delray Beach	Glen Ridge	Golf	Greenacres	Gulf Stream	Haverhill	Highland Beach	Hypoluxo	Juno Beach	Jupiter	Jupiter Inlet Colony	Lake Clark Shores	Lake Park	Lake Worth Beach	Lantana	Loxahatchee Groves	Manalapan	Mangonia Park	North Palm Beach	Ocean Ridge	Pahokee	Palm Beach	Palm Beach Gardens	Palm Beach Shores	Palm Springs	Riviera Beach	Royal Palm Beach	South Bay	South Palm Beach	Tequesta	Wellington	Westlake	West Palm Beach
Probability	H	L	H	H	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	H	L	L	L	L	H	L	L	L	L	L	L	H	L	L	H	L	L
Vulnerability	H	L	H	H	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	H	L	L	L	L	H	L	L	L	L	L	L	H	L	L	H	L	L
Exposure	H	L	H	H	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	H	L	L	L	L	H	L	L	L	L	L	L	H	L	L	H	L	L
Overall Risk	H	L	H	H	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	H	L	L	L	L	H	L	L	L	L	L	L	H	L	L	H	L	L

Table A-8: Pandemic/Communicable Diseases
2024 Local Mitigation Strategy Section 2.1.8

Hazard Assessment H: High M: Medium L: Low V: Very Low	Unincorporated County	MUNICIPALITIES																																						
		Atlantis	Belle Glade	Boca Raton	Boynton Beach	Briny Breezes	Cloud Lake	Delray Beach	Glen Ridge	Golf	Greenacres	Gulf Stream	Haverhill	Highland Beach	Hypoluxo	Juno Beach	Jupiter	Jupiter Inlet Colony	Lake Clarke Shores	Lake Park	Lake Worth Beach	Lantana	Loxahatchee Groves	Manalapan	Mangonia Park	North Palm Beach	Ocean Ridge	Pahokee	Palm Beach	Palm Beach Gardens	Palm Beach Shores	Palm Springs	Riviera Beach	Royal Palm Beach	South Bay	South Palm Beach	Tequesta	Wellington	Westlake	West Palm Beach
Probability	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Vulnerability	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Exposure	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Overall Risk	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M

Table A-9: Drought
2024 Local Mitigation Strategy Section 2.1.9

Hazard Assessment H: High M: Medium L: Low V: Very Low	Unincorporated County	MUNICIPALITIES																																						
		Atlantis	Belle Glade	Boca Raton	Boynton Beach	Briny Breezes	Cloud Lake	Delray Beach	Glen Ridge	Golf	Greenacres	Gulf Stream	Haverhill	Highland Beach	Hypoluxo	Juno Beach	Jupiter	Jupiter Inlet Colony	Lake Clarke Shores	Lake Park	Lake Worth Beach	Lantana	Loxahatchee Groves	Manalapan	Mangonia Park	North Palm Beach	Ocean Ridge	Pahokee	Palm Beach	Palm Beach Gardens	Palm Beach Shores	Palm Springs	Riviera Beach	Royal Palm Beach	South Bay	South Palm Beach	Tequesta	Wellington	Westlake	West Palm Beach
Probability	M	L	M	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	M	L	L	L	L	L	L	M	L	L	L	L	L
Vulnerability	H	L	H	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	H	L	L	L	L	L	L	H	L	L	L	L	M
Exposure	H	L	H	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	H	L	L	L	L	L	L	H	L	L	L	L	M
Overall Risk	H	L	H	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	H	L	L	L	L	L	L	H	L	L	L	L	M

Table A-10: Agricultural Pests and Diseases
2024 Local Mitigation Strategy Section 2.1.10

Hazard Assessment H: High M: Medium L: Low V: Very Low	MUNICIPALITIES																																								
	Unincorporated County	Atlantis	Belle Glade	Boca Raton	Boynton Beach	Briny Breezes	Cloud Lake	Delray Beach	Glen Ridge	Golf	Greenacres	Gulf Stream	Haverhill	Highland Beach	Hypoluxo	Juno Beach	Jupiter	Jupiter Inlet Colony	Lake Clarke Shores	Lake Park	Lake Worth Beach	Lantana	Loxahatchee Groves	Manalapan	Mangonia Park	North Palm Beach	Ocean Ridge	Pahokee	Palm Beach	Palm Beach Gardens	Palm Beach Shores	Palm Springs	Riviera Beach	Royal Palm Beach	South Bay	South Palm Beach	Tequesta	Wellington	Westlake	West Palm Beach
Probability	M	L	M	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	M	L	L	L	L	L	L	M	L	L	L	L	L
Vulnerability	M	L	M	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	M	L	L	L	L	L	L	M	L	L	L	L	L
Exposure	M	L	M	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	M	L	L	L	L	L	L	M	L	L	L	L	L
Overall Risk	M	L	M	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	M	L	L	L	L	L	L	M	L	L	L	L	L

Table A-11 Muck Fires
2024 Local Mitigation Strategy Section 2.1.11

Hazard Assessment H: High M: Medium L: Low V: Very Low	Unincorporated County	MUNICIPALITIES																																						
		Atlantis	Belle Glade	Boca Raton	Boynton Beach	Briny Breezes	Cloud Lake	Delray Beach	Glen Ridge	Golf	Greenacres	Gulf Stream	Haverhill	Highland Beach	Hypoluxo	Juno Beach	Jupiter	Jupiter Inlet Colony	Lake Clarke Shores	Lake Park	Lake Worth Beach	Lantana	Loxahatchee Groves	Manalapan	Mangonia Park	North Palm Beach	Ocean Ridge	Pahokee	Palm Beach	Palm Beach Gardens	Palm Beach Shores	Palm Springs	Riviera Beach	Royal Palm Beach	South Bay	South Palm Beach	Tequesta	Wellington	Westlake	West Palm Beach
Probability	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
Vulnerability	M	L	M	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	M	L	L	L	L	L
Exposure	M	L	M	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	M	L	L	L	L	L
Overall Risk	M	L	M	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	M	L	L	L	L	L

Table A-12: Seismic Hazards – Tsunamis and Earthquakes
2024 Local Mitigation Strategy Section 2.1.12

Hazard Assessment H: High M: Medium L: Low V: Very Low	MUNICIPALITIES																																								
	Unincorporated County	Atlantis	Belle Glade	Boca Raton	Boynton Beach	Briny Breezes	Cloud Lake	Delray Beach	Glen Ridge	Golf	Greenacres	Gulf Stream	Haverhill	Highland Beach	Hypoluxo	Juno Beach	Jupiter	Jupiter Inlet Colony	Lake Clarke Shores	Lake Park	Lake Worth Beach	Lantana	Loxahatchee Groves	Manalapan	Mangonia Park	North Palm Beach	Ocean Ridge	Pahokee	Palm Beach	Palm Beach Gardens	Palm Beach Shores	Palm Springs	Riviera Beach	Royal Palm Beach	South Bay	South Palm Beach	Tequesta	Wellington	Westlake	West Palm Beach
Probability	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
Vulnerability	M	V	V	H	H	H	V	H	V	V	V	H	V	H	H	H	H	H	M	H	H	H	V	H	M	H	H	V	H	M	H	V	H	V	V	H	H	V	V	H
Exposure	M	V	V	H	H	H	V	H	V	V	V	H	V	H	H	H	H	H	M	H	H	H	V	H	M	H	H	V	H	M	H	V	H	V	V	H	H	V	V	H
Overall Risk	L	V	V	L	L	L	V	L	V	V	V	L	V	L	L	L	L	L	L	L	L	L	V	L	L	L	L	V	L	L	L	V	L	V	V	L	L	V	V	L

Table A-13: Geologic Hazards – Sinkholes and Subsidence
2024 Local Mitigation Strategy 2.1.13

Hazard Assessment H: High M: Medium L: Low V: Very Low	Unincorporated County	MUNICIPALITIES																																						
		Atlantis	Belle Glade	Boca Raton	Boynton Beach	Briny Breezes	Cloud Lake	Delray Beach	Glen Ridge	Golf	Greenacres	Gulf Stream	Haverhill	Highland Beach	Hypoluxo	Juno Beach	Jupiter	Jupiter Inlet Colony	Lake Clarke Shores	Lake Park	Lake Worth Beach	Lantana	Loxahatchee Groves	Manalapan	Mangonia Park	North Palm Beach	Ocean Ridge	Pahokee	Palm Beach	Palm Beach Gardens	Palm Beach Shores	Palm Springs	Riviera Beach	Royal Palm Beach	South Bay	South Palm Beach	Tequesta	Wellington	Westlake	West Palm Beach
Probability	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
Vulnerability	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
Exposure	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
Overall Risk	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V

Table A-14: Extreme Temperatures

2024 Local Mitigation Strategy Section 2.1.14

Freezing Temperatures

Hazard Assessment H: High M: Medium L: Low V: Very Low	Unincorporated County	MUNICIPALITIES																																										
		Atlantis	Belle Glade	Boca Raton	Boynton Beach	Briny Breezes	Cloud Lake	Delray Beach	Glenn Ridge	Golf	Greenacres	Gulf Stream	Haverhill	Highland Beach	Hypoluxo	Juno Beach	Jupiter	Jupiter Inlet Colony	Lake Clarke Shores	Lake Park	Lake Worth Beach	Lantana	Loxahatchee Groves	Manalapan	Mangonia Park	North Palm Beach	Ocean Ridge	Pahokee	Palm Beach	Palm Beach Gardens	Palm Beach Shores	Palm Springs	Riviera Beach	Royal Palm Beach	South Bay	South Palm Beach	Tequesta	Wellington	Westlake	West Palm Beach				
Probability	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L				
Vulnerability	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L				
Exposure	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L				
Overall Risk	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L				

Extreme Heat

Hazard Assessment H: High M: Medium L: Low V: Very Low	Unincorporated County	MUNICIPALITIES																																											
		Atlantis	Belle Glade	Boca Raton	Boynton Beach	Briny Breezes	Cloud Lake	Delray Beach	Glenn Ridge	Golf	Greenacres	Gulf Stream	Haverhill	Highland Beach	Hypoluxo	Juno Beach	Jupiter	Jupiter Inlet Colony	Lake Clarke Shores	Lake Park	Lake Worth Beach	Lantana	Loxahatchee Groves	Manalapan	Mangonia Park	North Palm Beach	Ocean Ridge	Pahokee	Palm Beach	Palm Beach Gardens	Palm Beach Shores	Palm Springs	Riviera Beach	Royal Palm Beach	South Bay	South Palm Beach	Tequesta	Wellington	Westlake	West Palm Beach				
Probability	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H				
Vulnerability	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H				
Exposure	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M				
Overall Risk	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M				

Hazard Identification and Risk Assessment for Municipal Governments (Technological Hazards)

Table A-15: Dam/Dike Failures (Herbert Hoover Dike)

2024 Local Mitigation Strategy Section 2.2.1

Hazard Assessment H: High M: Medium L: Low V: Very Low	Unincorporated County	MUNICIPALITIES																																									
		Atlantis	Belle Glade	Boca Raton	Boynton Beach	Briny Breezes	Cloud Lake	Delray Beach	Glen Ridge	Golf	Greenacres	Gulf Stream	Haverhill	Highland Beach	Hypoluxo	Juno Beach	Jupiter	Jupiter Inlet Colony	Lake Clarke Shores	Lake Park	Lake Worth Beach	Lantana	Loxahatchee Groves	Manalapan	Mangonia Park	North Palm Beach	Ocean Ridge	Pahokee	Palm Beach	Palm Beach Gardens	Palm Beach Shores	Palm Springs	Riviera Beach	Royal Palm Beach	South Bay	South Palm Beach	Tequesta	Wellington	Westlake	West Palm Beach			
Probability	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L			
Vulnerability	M	L	H	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	H	L	L	L	L	L	M	H	L	L	M	L	L			
Exposure	M	L	H	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	H	L	L	L	L	L	M	H	L	L	M	L	L			
Overall Risk	M	L	H	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	H	L	L	L	L	L	M	H	L	L	M	L	L			

Table A-16: Hazardous Materials Accidents
2024 Local Mitigation Strategy Section 2.2.2

Hazard Assessment H: High M: Medium L: Low V: Very Low	MUNICIPALITIES																																							
	Unincorporated County	Atlantis	Belle Glade	Boca Raton	Boynton Beach	Briny Breezes	Cloud Lake	Delray Beach	Glen Ridge	Golf	Greenacres	Gulf Stream	Haverhill	Highland Beach	Hypoluxo	Juno Beach	Jupiter	Jupiter Inlet Colony	Lake Clarke Shores	Lake Park	Lake Worth Beach	Lantana	Loxahatchee Groves	Manalapan	Mangonia Park	North Palm Beach	Ocean Ridge	Pahokee	Palm Beach	Palm Beach Gardens	Palm Beach Shores	Palm Springs	Riviera Beach	Royal Palm Beach	South Bay	South Palm Beach	Tequesta	Wellington	Westlake	West Palm Beach
Probability	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Vulnerability	M	M	M	H	H	M	M	H	M	M	M	M	M	M	H	M	H	M	M	H	H	H	M	M	M	M	M	M	M	H	M	M	H	M	M	M	H	M	M	H
Exposure	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Overall Risk	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M

Table A-17: Radiological Incidents (Nuclear Power Plant Accidents)
2024 Local Mitigation Strategy 2.2.3

Hazard Assessment H: High M: Medium L: Low V: Very Low	MUNICIPALITIES																																						
	Unincorporated County	Atlantis	Belle Glade	Boca Raton	Boynton Beach	Briny Breezes	Cloud Lake	Delray Beach	Glen Ridge	Golf	Greenacres	Gulf Stream	Haverhill	Highland Beach	Hypoluxo	Juno Beach	Jupiter	Jupiter Inlet Colony	Lake Clarke Shores	Lake Park	Lake Worth Beach	Lantana	Loxahatchee Groves	Manalapan	Mangonia Park	North Palm Beach	Ocean Ridge	Pahokee	Palm Beach	Palm Beach Gardens	Palm Beach Shores	Palm Springs	Riviera Beach	Royal Palm Beach	South Bay	South Palm Beach	Tequesta	Wellington	Westlake	West Palm Beach
Probability	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
Vulnerability	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
Exposure	M	L	L	L	L	L	L	L	L	L	L	L	M	L	L	M	M	M	M	L	M	L	L	L	L	M	L	L	M	M	M	L	M	L	L	L	L	L	M
Overall Risk	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L

Table A-18: Communication Failures
2024 Local Mitigation Strategy Section 2.2.4

Hazard Assessment H: High M: Medium L: Low V: Very Low	Unincorporated County	MUNICIPALITIES																																						
		Atlantis	Belle Glade	Boca Raton	Boynton Beach	Briny Breezes	Cloud Lake	Delray Beach	Glen Ridge	Golf	Greenacres	Gulf Stream	Haverhill	Highland Beach	Hypoluxo	Juno Beach	Jupiter	Jupiter Inlet Colony	Lake Clarke Shores	Lake Park	Lake Worth Beach	Lantana	Loxahatchee Groves	Manalapan	Mangonia Park	North Palm Beach	Ocean Ridge	Pahokee	Palm Beach	Palm Beach Gardens	Palm Beach Shores	Palm Springs	Riviera Beach	Royal Palm Beach	South Bay	South Palm Beach	Tequesta	Wellington	Westlake	West Palm Beach
Probability	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
Vulnerability	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Exposure	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Overall Risk	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M

Table A-19: Transportation System Accidents
2024 Local Mitigation Strategy Section 2.2.5

Hazard Assessment H: High M: Medium L: Low V: Very Low	Unincorporated County	MUNICIPALITIES																																						
		Atlantis	Belle Glade	Boca Raton	Boynton Beach	Briny Breezes	Cloud Lake	Delray Beach	Glen Ridge	Golf	Greenacres	Gulf Stream	Haverhill	Highland Beach	Hypoluxo	Juno Beach	Jupiter	Jupiter Inlet Colony	Lake Clarke Shores	Lake Park	Lake Worth Beach	Lantana	Loxahatchee Groves	Manalapan	Mangonia Park	North Palm Beach	Ocean Ridge	Pahokee	Palm Beach	Palm Beach Gardens	Palm Beach Shores	Palm Springs	Riviera Beach	Royal Palm Beach	South Bay	South Palm Beach	Tequesta	Wellington	Westlake	West Palm Beach
Probability	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
Vulnerability	M	L	M	M	M	L	L	M	M	L	L	L	M	L	M	L	M	L	L	M	M	M	M	L	M	L	L	M	L	M	L	L	M	L	M	L	M	L	M	M
Exposure	M	L	M	M	M	L	L	M	M	L	L	L	M	L	M	L	M	L	L	M	M	M	M	L	M	L	L	M	L	M	L	L	M	L	M	L	M	L	M	M
Overall Risk	M	L	M	M	M	L	L	M	M	L	L	L	M	L	M	L	M	L	L	M	M	M	M	L	M	L	L	M	L	M	L	L	M	L	M	L	M	L	M	M

Table A-20: Wellfield Contaminations
2024 Local Mitigation Strategy Section 2.2.6

Hazard Assessment H: High M: Medium L: Low V: Very Low	Unincorporated County	MUNICIPALITIES																																						
		Atlantis	Belle Glade	Boca Raton	Boynton Beach	Briny Breezes	Cloud Lake	Delray Beach	Glen Ridge	Golf	Greenacres	Gulf Stream	Haverhill	Highland Beach	Hypoluxo	Juno Beach	Jupiter	Jupiter Inlet Colony	Lake Clarke Shores	Lake Park	Lake Worth Beach	Lantana	Loxahatchee Groves	Manalapan	Mangonia Park	North Palm Beach	Ocean Ridge	Pahokee	Palm Beach	Palm Beach Gardens	Palm Beach Shores	Palm Springs	Riviera Beach	Royal Palm Beach	South Bay	South Palm Beach	Tequesta	Wellington	Westlake	West Palm Beach
Probability	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	M	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
Vulnerability	M	L	L	M	M	L	L	M	L	L	L	M	L	L	L	L	M	L	L	M	L	L	M	L	M	L	L	L	L	M	L	L	L	L	L	L	M	M	M
Exposure	M	L	L	M	M	L	L	M	L	L	L	M	L	L	L	L	M	L	L	M	L	L	M	L	M	L	L	L	L	M	L	L	L	L	L	L	M	M	M
Overall Risk	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L

Table A-21: Power Failure (Outages)
2024 Local Mitigation Strategy Section 2.2.7

Hazard Assessment H: High M: Medium L: Low V: Very Low	MUNICIPALITIES																																							
	Unincorporated County	Atlantis	Belle Glade	Boca Raton	Boynton Beach	Briny Breezes	Cloud Lake	Delray Beach	Glen Ridge	Golf	Greenacres	Gulf Stream	Haverhill	Highland Beach	Hypoluxo	Juno Beach	Jupiter	Jupiter Inlet Colony	Lake Clarke Shores	Lake Park	Lake Worth Beach	Lantana	Loxahatchee Groves	Manalapan	Mangonia Park	North Palm Beach	Ocean Ridge	Pahokee	Palm Beach	Palm Beach Gardens	Palm Beach Shores	Palm Springs	Riviera Beach	Royal Palm Beach	South Bay	South Palm Beach	Tequesta	Wellington	Westlake	West Palm Beach
Probability	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
Vulnerability	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Exposure	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Overall Risk	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M

Hazard Identification and Risk Assessment for Municipal Governments (Human-Caused Hazards)

Table A-22: Civil Disturbances

2024 Local Mitigation Strategy Section 2.3.1

Hazard Assessment H: High M: Medium L: Low V: Very Low	MUNICIPALITIES																																								
	Unincorporated County	Atlantis	Belle Glade	Boca Raton	Boynton Beach	Briny Breezes	Cloud Lake	Delray Beach	Glen Ridge	Golf	Greenacres	Gulf Stream	Haverhill	Highland Beach	Hypoluxo	Juno Beach	Jupiter	Jupiter Inlet Colony	Lake Clarke Shores	Lake Park	Lake Worth Beach	Lantana	Loxahatchee Groves	Manalapan	Mangonia Park	North Palm Beach	Ocean Ridge	Pahokee	Palm Beach	Palm Beach Gardens	Palm Beach Shores	Palm Springs	Riviera Beach	Royal Palm Beach	South Bay	South Palm Beach	Tequesta	Wellington	Westlake	West Palm Beach
Probability	L	L	L	L	M	L	L	M	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	M	L	L	L	M	L	L	L	L	L	L	M
Vulnerability	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
Exposure	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
Overall Risk	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L

Table A-23: Domestic Security (Terrorism/Sabotage)
2024 Local Mitigation Strategy Section 2.3.2

Hazard Assessment H: High M: Medium L: Low V: Very Low	MUNICIPALITIES																																							
	Unincorporated County	Atlantis	Belle Glade	Boca Raton	Boynton Beach	Briny Breezes	Cloud Lake	Delray Beach	Glen Ridge	Golf	Greenacres	Gulf Stream	Haverhill	Highland Beach	Hypoluxo	Juno Beach	Jupiter	Jupiter Inlet Colony	Lake Clarke Shores	Lake Park	Lake Worth Beach	Lantana	Loxahatchee Groves	Manalapan	Mangonia Park	North Palm Beach	Ocean Ridge	Pahokee	Palm Beach	Palm Beach Gardens	Palm Beach Shores	Palm Springs	Riviera Beach	Royal Palm Beach	South Bay	South Palm Beach	Tequesta	Wellington	Westlake	West Palm Beach
Probability	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	M	L	L	L	L	L	L	L	L	L	L	L
Vulnerability	M	L	M	M	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	M	M	M	L	L	M	L	M	L	L	L	L	M
Exposure	M	L	M	M	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	M	M	M	L	L	M	L	M	L	L	L	L	M
Overall Risk	M	L	M	M	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	M	M	M	L	L	M	L	M	L	L	L	L	M

Table A-24: Cybersecurity
2024 Local Mitigation Strategy Section 2.3.2

Hazard Assessment H: High M: Medium L: Low V: Very Low	Unincorporated County	MUNICIPALITIES																																						
		Atlantis	Belle Glade	Boca Raton	Boynton Beach	Briny Breezes	Cloud Lake	Delray Beach	Glen Ridge	Golf	Greenacres	Gulf Stream	Haverhill	Highland Beach	Hypoluxo	Juno Beach	Jupiter	Jupiter Inlet Colony	Lake Clarke Shores	Lake Park	Lake Worth Beach	Lantana	Loxahatchee Groves	Manalapan	Mangonia Park	North Palm Beach	Ocean Ridge	Pahokee	Palm Beach	Palm Beach Gardens	Palm Beach Shores	Palm Springs	Riviera Beach	Royal Palm Beach	South Bay	South Palm Beach	Tequesta	Wellington	Westlake	West Palm Beach
Probability	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
Vulnerability	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
Exposure	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
Overall Risk	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M

Table A-25: Workplace/School Violence (Active Assailant)
2024 Local Mitigation Strategy Section 2.3.3

Hazard Assessment H: High M: Medium L: Low V: Very Low	Unincorporated County	MUNICIPALITIES																																						
		Atlantis	Belle Glade	Boca Raton	Boynton Beach	Briny Breezes	Cloud Lake	Delray Beach	Glen Ridge	Golf	Greenacres	Gulf Stream	Haverhill	Highland Beach	Hypoluxo	Juno Beach	Jupiter	Jupiter Inlet Colony	Lake Clarke Shores	Lake Park	Lake Worth Beach	Lantana	Loxahatchee Groves	Manalapan	Mangonia Park	North Palm Beach	Ocean Ridge	Pahokee	Palm Beach	Palm Beach Gardens	Palm Beach Shores	Palm Springs	Riviera Beach	Royal Palm Beach	South Bay	South Palm Beach	Tequesta	Wellington	Westlake	West Palm Beach
Probability	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
Vulnerability	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Exposure	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M
Overall Risk	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M

Methodology for Hazard Identification and Risk Assessment for Palm Beach County

Based on the probability, vulnerability, and exposure of all possible hazards that could impact Palm Beach County's municipalities in tables A-1 through A-24, an analysis was made to determine the risk these hazards pose. This next section will determine the risk to the entire county and its operations.

The following scale was used to assess the risk potential to people, property, environment, and government operations:

Low:
A hazard with a "low" risk rating indicates that it is not likely to have any measurable or lasting impact. The hazard will easily be managed with local resources and not be considered a threat to the whole community.

1. People: The damage level to life is minimal (i.e., deaths and injuries) or there are no reported deaths and/or injuries.
2. Property: Damage to property is minimal or non-existent.
3. Environment: No damage was reported to the environment and/or natural resources.
4. Government Operations: Local and county governments were not interrupted by the hazard or impacts required minimal state and/or federal government assistance.

Medium:
A hazard with a "medium" risk indicates that is has a 5 to 15% chance of occurring and could result in a "Major Disaster" as defined under the Robert T. Staff Disaster Relief and Emergency Assistance Act (42 U.S.C. 5122).

1. People: The damage to life is significant (i.e., deaths and injuries). Report numbers of victims meet the classification of a Mass Casualty Incident (MCI) Level 1 from the Mass Casualty/Mass Fatality Plan at a minimum[1].
2. Property: Reported damage to property is significant enough to warrant disaster assistance from the federal government under a Presidential Disaster Declaration[2].
3. Environment: Reported damage to the environment is significant enough to warrant disaster assistance from the federal government under a Presidential Disaster Declaration.
4. Government Operations: The economy and local and county government operations are partially or completely interrupted for some time by the disaster and results requires assistance from state or federal partnering agencies. Public confidence in the jurisdiction's governance is detrimentally impacted.

1 An MCI Level 1 is defined as an emergency involving 5-10 victims, 2 closest hospitals, and at least 1 Trauma Center.
2 In order for a Presidential Disaster Declaration to be made, the Florida Division of Emergency Management must determine the need for federal assistance by reporting a threshold of the loss of governmental properties and need for individual assistance through a Preliminary Damage Assessment.

High

The hazard with a "High" risk rating indicates that it has more than 15% chance of occurring and will likely cause a catastrophic disaster.

1. People: A disaster caused by the hazard produces a substantial number of deaths and/or injuries.
2. Property: The hazard will likely cause extreme damage or destruction to facilities that provide and sustain human needs (e.g., hospitals, schools).
3. Environment: The hazard will likely cause a major detrimental impact on the environment (e.g., severe erosion of beaches).
4. Government Operations: The hazard will likely cause an overwhelming demand on state and local response resources and mechanisms. Local and private sector capabilities will have difficulties starting or sustaining and delivering governmental and community services.

An overall high-risk rating indicates that the hazard has a probability of occurrence greater than 15% and is considered a significant threat to the community. Detrimental impacts from the hazard will require substantial time, resources, and/or outside assistance to rectify damages. More than likely, there will be long-term effects on the general economy, the private sector, and public confidence in the jurisdiction's governance.

Table A-26: Hazard Identification and Risk Assessment for <u>all of</u> Palm Beach County (Natural Hazards)

NATURAL HAZARDS					
HAZARDS	**PEOPLE:** Health and safety of residents, visitors, and responders	**PROPERTY:** Private/Public ownded, facilities, historical resources, and infrastructure	**ENVIRONMENT:** Natural Resources	**GOVERNMENT OPERATIONS:** Delivery of services, continuity of government/operations, economy, public confidence	**OVERALL RISK**
Flood	High	High	High	High	High
Hurricanes/Tropical Storms	High	High	High	Medium	High
Severe Thunderstorms/Lightning	Medium	Medium	Low	Low	Medium
Sea Level Rise	Low	High	High	Medium	Medium
Soil/Beach Erosion	Low	Medium	Medium	Low	Medium
Tornadoes	Medium	Medium	Low	Low	Medium
Wildfires/Urban Interface	Medium	Medium	High	Medium	Medium
Pandemic/Communicable Diseases	High	Low	Low	Medium	Medium
Drought	Low	Medium	Medium	Medium	Medium
Agricultural Pests and Diseases	Medium	Medium	Medium	Medium	Medium
Muck Fires	Low	Low	Low	Low	Low
Seismic Hazards	Low	Low	Low	Low	Low
Geologic Hazards	Low	Low	Low	Low	Low

Table A-27: Hazard Identification and Risk Assessment for all of Palm Beach County (Technological Hazards)

TECHNOLOGICAL HAZARDS					
HAZARDS	**PEOPLE:** Health and safety of residents, visitors, and responders	**PROPERTY:** Private/Public owned, facilities, historical resources, and infrastructure	**ENVIRONMENT:** Natural Resources	**GOVERNMENT OPERATIONS:** Delivery of services, continuity of government/operations, economy, public confidence	**OVERALL RISK**
Dam/Dike Failures	Medium	Medium	Medium	Low	Medium
Hazardous Materials Accidents	Medium	Medium	High	Low	Medium
Radiological Incidents	Medium	Low	High	Low	Medium
Communication Failures	Medium	Low	Low	Medium	Medium
Transportation System Accidents	Medium	Medium	Low	Low	Medium
Wellfield Contaminations	Medium	Medium	High	Low	Medium
Power Failure (Outages)	Medium	Low	Low	Medium	Medium

Table A-28: Hazard Identification and Risk Assessment for all of Palm Beach County (Human-Caused Hazards)

HUMAN-CAUSED HAZARDS					
HAZARDS	**PEOPLE:** Health and safety of residents, visitors, and responders	**PROPERTY:** Private/Public ownded, facilities, historical resources, and infrastructure	**ENVIRONMENT:** Natural Resources	**GOVERNMENT OPERATIONS:** Delivery of services, continuity of government/operations, economy, public confidence	**OVERALL RISK**
Civil Disturbances	Low	Low	Low	Low	Low
Domestic Security	Medium	Medium	Low	Low	Medium
Cybersecurity*	Low	Medium	Low	High	Medium
Workplace/School Violence	Medium	Medium	Low	Medium	Medium

*Included in Domestic Security

Methodology for Consequence Analysis for Palm Beach County

A consequence analysis was conducted to assess the potential of detrimental impacts from all natural, technological, and human-caused hazards in Palm Beach County. Consequences were measured against the following groupings:

1. Health and safety of residents
2. Health and safety of responders
3. Continuity of government
4. Property, facilities, and infrastructure
5. Delivery of critical services
6. Environmental impact
7. Economic and financial conditions
8. Regulatory and contractual obligations
9. County's reputation, impact and/or ability to attract public and commercial interests

The consequence rating of very low indicates that there would be little or no measure effects from the hazard. A consequence rating of "Low" for any hazard type means the hazard is not likely to have any measurable or lasting detrimental impact of a particular type and consequences will likely be rectified promptly with locally available resources. A consequence rating of "Medium" means there will likely be a measurable detrimental impact, which may require some time to rectify and may require outside resources and/or assistance. A consequence rating of "High" means the impact will likely be severe and of longer duration, and require substantial time, resources, and/or outside assistance to rectify.

A split box will be used if the hazard would have differing consequences between geographic locations in the county.

Table A-29: Consequence Analysis for Natural Hazards

Hazard	Health & Safety of Residents	Health & Safety of Responders	Continuity of Operations	Property, Facilities & Infrastructure	Historical Resources	Delivery of Services	Environment	Economic & Financial Conditions	Regulatory & Contractual Obligations	Reputation of County
Flood	Medium	Medium	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
Hurricane Cat 1	Medium	Medium	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
Hurricane Cat 2	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Low	Low
Hurricane Cat 3	Medium	Medium	Medium	Medium	Medium	Medium	High	Medium	Medium	Low
Hurricane Cat 4	High	High	High	High	High	High	High	High	High	Medium
Hurricane Cat 5	High	High	High	High	High	High	High	High	High	High
Tropical Storm	Medium	Medium	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
Sea Level Rise	Low	Low	Low	Inland: Very Low / Coastal: Medium	Inland: Very Low / Coastal: Medium	Low	Inland: Very Low / Coastal: Medium	High	Low	High
Soil/Beach Erosion	Low	Low	Low	Inland: Very Low / Coastal: Medium	Low	Low	Inland: Very Low / Coastal: Medium	Inland: Very Low / Coastal: High	Low	Inland: Very Low / Coastal: Medium
Tornadoes	Low	Medium	Low	Low	Low	Low	Medium	Medium	Low	Low
Wildfire/Urban Interface Zone	Low	Medium	Low	Medium	Low	Low	Medium	Medium	Low	Low

Hazard	Health & Safety of Residents	Health & Safety of Responders	Continuity of Operations	Property, Facilities & Infrastructure	Historical Resources	Delivery of Services	Environment	Economic & Financial Conditions	Regulatory & Contractural Obligations	Reputation of County
Pandemic/ Communicable Diseases	Medium	Medium	High	Low	Low	Medium	Low	High	Low	High
Drought	Low	Low	Low	Low	Low	Low	Medium	High	Low	Low
Agricultural Pests and Diseases	Low	Low	Low	Low	Low	Low	Medium	High	Low	Low
Muck Fires	Low	Medium	Low	Medium	Low	Low	Medium	Medium	Low	Low
Seismic Hazards	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low
Geological Hazards	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low
Extreme Temperatures	Medium	Medium	Low	Low	Low	Low	Medium	Medium	Low	Low

Table A-30: Consequence Analysis for Technological Hazards

Hazard	Health & Safety of Residents		Health & Safety of Responders		Continuity of Operations		Property, Facilities & Infrastructure		Historical Resources		Delivery of Services		Environment		Economic & Financial Conditions		Regulatory & Contractural Obligations	Reputation of County
Dam/Dike Failures	Inland	Coastal	Inland	Coastal	Inland	Coastal	Inland	Coastal	Inland	Coastal	Inland	Coastal	Inland	Coastal	Inland	Coastal	Low	Low
	Medium	Very Low	Medium	Very Low	Low	Very Low	Medium	Very Low	Medium	Very Low	Low	Very Low	Medium	Very Low	Medium	Very Low		
Hazardous Materials Accidents	Medium		Medium		Low		Low		Low		Low		Medium		Low		Low	Low
Radiological Incidents	Low		Low		Low		Low		Low		Low		Low		Low		Low	Low
Communication Failures	Low		Low		Low		Low		Low		Low		Low		Low		Low	Low
Transportation System Accidents	Low		Low		Low		Low		Low		Low		Low		Low		Low	Low
Wellfield Contaminations	Low		Low		Low		Low		Low		Low		High		High		Low	Medium
Power Failure (Outages)	Medium		Low		Medium		Medium		Medium		Medium		Medium		Medium		Low	Low

Table A-31: Consequence Analysis for Human-Caused Hazards

Hazard	Health & Safety of Residents	Health & Safety of Responders	Continuity of Operations	Property, Facilities & Infrastructure	Historical Resources	Delivery of Services	Environment	Economic & Financial Conditions	Regulatory & Contractural Obligations	Reputation of County
Civil Disturbances	Low	Low	Low	Low	Low	Low	Low	Low	Low	Medium
Domestic Security	Medium	High	Medium	Low	Low	Medium	Low	High	Low	High
Cybersecurity*	Low	Low	High	High	Low	High	Low	High	High	Medium
Wokplace/School Violence	Medium	Medium	Low	Low	Low	Low	Low	Low	Low	Medium
Mass Migration Crises	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low

*Included in Domestic Security

Palm Beach County
Hazard Identification and Risk Assessment
Reference Sources (February 2021)

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Florida Division of Emergency Management	State Hazard Mitigation Plan Hazard Profile Drafts
Treasure Coast Regional Planning Commission	Palm Beach County Appendix, 2016 Supplemental Summary, Statewide Regional Evacuation Summary
Florida Department of Environmental Protection	The Favorability of Florida's Geology to Sinkhole Formation (2017)
Florida Division of Emergency Management	Mitigation Goals and Capabilities (2018 Draft)
Florida Division of Emergency Management	Florida Repetitive Loss Strategy (2017 Draft)

The above referenced plans and studies were used throughout this document as a review and incorporation of existing plans, studies, reports, and technical information in order to bolster this LMS plan.

Palm Beach County
Hazard Identification and Risk Assessment
Reference Sources (2021)

References Table A-32 (2021)

Source	Data Type
Natural Hazards	
Hurricanes and Severe Storms (Includes Tropical Storms and Northeasters)	
Natural Hazards Research Center	Historical and current data on all types of natural hazards
Atlantic Hurricane Tracking Database	Historical data on hurricane tracks and intensities
NOAA Tropical Cyclone Database	Historical hurricane data
Colorado State University (Dr. Gray online site)	Hurricane probability
NASA Natural Disaster Reference Database	Historical data on all types of natural hazards
National Weather Service	Weather statistics
National Climate Data Center - On-Line Data Base	Weather statistics
Atlantic Ocean and Meteorological Laboratory, Hurricane Research Division	Hurricane forecast models
Federal Emergency Management Agency	Emergency management procedures
Tropical Storm Watch Database	Tropical storm data worldwide
Flood Insurance Rate Maps and Community Status Book	Areas vulnerable to potential rising water
Storm Surge Atlas for Palm Beach County (SLOSH model)	Areas vulnerable to storm surge flooding based on the SLOSH model
U. S. Geological Survey	Base maps and historical flood plain and elevation data
Florida State University (Meteorology Department)	Data and expertise concerning all Florida natural hazards
Florida Atlantic University	Data and expertise concerning all Florida natural hazards
National Severe Storms Laboratory	Storm effects data

Source	Data Type
Independent Insurance Agents of America (Natural Disaster Risk Database)	Probability data and estimated exposure Building code recommendations to reduce exposure
Florida Division of Emergency Management	*The Arbiter of Storms (TAOS)*@ maps and computer model projections as well as technical support and data
Florida Department of Environmental Protection	Environmental risk, exposure to hurricanes, environmental effects and hazards
Florida Game and Fresh Water Fish Commission	Hurricane effects of fish and wildlife
Florida Department of Corrections	Prison statistics and emergency management plans
Florida Department of Education	School and Board of Education emergency guidelines
South Florida Water Management District	Climatic and weather data, hydrologic data, water release schedules, and emergency management plans
Treasure Coast Regional Planning Council	Building codes and impacts of proposed statewide unified building code
Palm Beach County Airports Department	Weather data and hurricane protection procedures
Palm Beach County Comprehensive Growth Management Plan	Land management, zoning, and hurricane mitigation related ordinances
Palm Beach County Planning, Zoning, and Building Department	Building codes and zoning ordinances
Palm Beach County Property Appraiser	Tax assessor records for use in determining dollar value of exposed property
Palm Beach County Automated Information Management	Map products and GIS data
Palm Beach County Engineering and Public Works Department	Engineering, drainage, road elevations, and storm water data
Palm Beach County Environmental Resources Management Department	Environmental and beach erosion data
Palm Beach County Fire and Rescue	Critical facilities locations and emergency management plans
Palm Beach County Health Department	Critical facilities and health risk data

Source	Data Type
Palm Beach County School Board	Schools, shelter, and critical facilities data and emergency management plans
Palm Beach County Law Library	Building codes and ordinances
Palm Beach County Parks & Recreation Department	Environmental and recreational data and potential impacts data
Palm Beach County Public Safety Department Division of Emergency Management	Emergency management plans, historical data, critical facilities, special needs, and general guidance
Palm Beach County Division of Criminal Justice	County prison population and emergency management plans
Division of Animal Regulation	Animal protection, regulation, and control plans following natural disasters (hurricanes)
Palm Beach County Sheriff Department	Emergency management plans and law enforcement procedures following a natural disaster
Palm Beach County Tourist Development Council	Potential economic loss and specific areas of economic vulnerability
Palm Beach County Water Utilities	Critical facilities locations and emergency management procedures
Palm Beach County Red Cross	Historical data, shelter data, and emergency management plans
Florida Power and Light and Other Municipal/Private Power Companies (Lake Worth Utilities, etc.)	Power grid vulnerabilities, structure, and emergency management plans
Home Depot/Lowes	Emergency management supply plans for preparation and recovery
Publix/Winn Dixie	Emergency food supply plans
Southern Bell	Emergency communication maintenance plans
AT&T Wireless Services	Emergency communication maintenance plans
U. S. Cellular Wireless Communications	Emergency communication maintenance plans
The Palm Beach Post	Historical hurricane data
Local Radio and Television Stations	Critical facilities location and emergency management plans (operating plans) during natural disaster

Source	Data Type
Tornadoes and Thunderstorms	
Natural Hazards Research Center	Historical and current data on all types of natural hazard
The Tornado Project On-Line	Historical data
Optical Transient Detector Data Base	Lightning associated with thunder storms (lightning statistics)
NASA Natural Disaster Reference Database	Historical data all types of natural hazards
National Weather Service	Weather statistics
National Climate Data Center - On-Line Data Base	Weather statistics
NOAA Wind Related Fatalities Data Base	Wind related fatalities
NOAA Tropical Prediction Center	Storm predictions
Florida State University	Data and expertise concerning all Florida natural hazards
Florida Atlantic University	Data and expertise concerning all Florida natural hazards
National Severe Storms Laboratory	Storm and tornado statistics and storm effects
Independent Insurance Agents of America (Natural Disaster Risk Database)	Financial data concerning losses resulting from thunder storms and tornadoes
Florida Division of Emergency Management	Incident reports and historical data
South Florida Water Management District	Climatic data
Palm Beach County Airports Department	Weather data and protection plans and procedures during thunderstorms and tornadoes
Palm Beach County Fire and Rescue	Thunderstorm and tornado fire and fatality data
Palm Beach County Public Safety Department Division of Emergency Management	Thunderstorm and tornado historical data
Palm Beach County Division of Emergency Management	Historical data on thunderstorm and tornado related medical emergencies
Palm Beach County Red Cross	Historical data on impacts
Florida Power and Light and Other Municipal/Private Power Companies (Lake Worth Utilities, etc.)	Historical data on impacts to the power grid
Southern Bell	Historical data on communication impacts

Source	Data Type
AT&T Wireless Services	Historical data on communications disruptions
U. S. Cellular Wireless Communications	Historical data on communications disruptions
The Palm Beach Post	Historical data general
Local Radio and Television Stations	Historical data on losses and possible future losses
NASA Natural Disaster Reference Database	Lightning statistics
National Weather Service	Lightning strike data
National Climate Data Center - On-Line Data Base	Lightning strike data
NOAA Lightning Related Fatalities Data Base	Lightning fatalities
National Lightning Safety Institute (NLSI)	Lightning research and protection measures
Florida State University	Data and expertise concerning all natural hazards
Florida Atlantic University	Data and expertise concerning all natural hazards
University of Florida Lightning Research Laboratory	Current research on lightning causes and effects
National Severe Storms Laboratory	Lightning statistics
Independent Insurance Agents of America (Natural Disaster Risk Database)	Financial losses attributable to lightning and related electromagnetic discharges
Florida Department of Community Affairs, Division of Emergency Management	Data on major fires caused by lightning
Florida Fire Chief's Association	Data on fires caused by lightning
South Florida Water Management District	Data on lightning related losses
Palm Beach County Airports Department	Lightning data and protective measures
Palm Beach County Fire and Rescue	Lightning related fires and injuries
Palm Beach County Parks & Recreation Department	Data on lightning related losses
Palm Beach County Public Safety Department Division of Emergency Management	Lightning protection procedures
Palm Beach County Sheriff Department	Data on communication disruption
Florida Power and Light	Financial losses and power grid disruptions due to lightning

Source	Data Type
Southern Bell	Financial losses and communications disruptions due to lightning
AT&T Wireless Services	Financial losses and communications disruptions due to lightning
U. S. Cellular Wireless Communications	Financial losses and communications disruptions due to lightning
The Palm Beach Post	Historical data on significant lightning related events
Flooding	
Association of State Floodplain Managers	Floodplain data, flooding statistics, and mitigation approaches
Natural Hazards Research Center	Technical data on all natural hazards
NOAA Flood Related Fatalities Data Base	Flood related fatalities
NOAA Hydrologic Information Center	Hydrologic data
NOAA Tropical Cyclone Database	Rainfall associated with storm type events
NASA Natural Disaster Reference Database	Specific flooding and mitigation data nationwide
NASA Flood Hazard Research Center	Flood research and mitigation approaches
National Weather Service	Climatic data
National Climate Data Center - On-Line Data Base	Weather/rain fall historical data
National Flood Proofing Committee Data Base	Mitigation procedures
National Association of Flood and Storm Water Management Agencies	Storm water management data and procedures
Atlantic Ocean and Meteorological Laboratory, Hurricane Research Division	Historical meteorological data
Federal Emergency Management Authority	Historical flooding data
Tropical Storm Watch Database	Rainfall events and flooding data
Flood Insurance Rate Maps and Community Status Book	Identification of properties within the flood plane
U. S. Geological Survey	Topographic maps
U. S. Army Corps of Engineers	Historical flooding data and flood prevention projects
Dartmouth Flood Observatory	Flooding research
Earth Satellite Corporation (EarthSat) Flood watch Data Base	Historical flooding data

Source	Data Type
Florida State University	Data and expertise concerning all Florida natural hazards
Florida Atlantic University	Data and expertise concerning all Florida natural hazards
National Severe Storms Laboratory	Rainfall data and related flooding events
Independent Insurance Agents of America (Natural Disaster Risk Database)	Property and financial losses as a result of flooding
Florida Department of Community Affairs, Division of Emergency Management	Historical data on flooding events in Palm Beach County
Florida Association of Floodplain Managers	Flooding data specific to Florida
Florida Department of Environmental Protection	Environmental parameters and risk associated with flooding
Florida Game and Fresh Water Fish Commission	Wildlife resources impacted by flooding
South Florida Water Management District	Water management, hydrology, and flood prevention procedures
Palm Beach County Planning, Zoning, and Building Department	Zoning ordinances and building codes that affect flood protection
Palm Beach County Property Appraiser	Property value within flood zones
Palm Beach County Automated Information Management	Historical flooding and critical facilities in flood zones
Palm Beach County Engineering and Public Works Department	Highway and storm water management procedures
Palm Beach County Environmental Resources Management Department	Water resources and flooding data
Palm Beach County Fire and Rescue	Flooding associated fires and injuries
Palm Beach County Health Department	Disease risk and contamination potential associated with flooding
Palm Beach County Parks & Recreation Department	Recreational resources at risk due to flooding
Palm Beach County Public Safety Department Division of Emergency Management	Historical flooding data and emergency management procedures
Division of Animal Regulation	Animal control problems associated with flooding
Palm Beach County Sheriff Department	Emergency management procedures associated with flooding
Palm Beach County Water Utilities	Critical facilities at risk due to flooding and potential impacts

Source	Data Type
Independent Drainage Districts	All independent drainage districts will be contacted for historical data and identified areas at risk
Palm Beach County Red Cross	Historical flooding data and repetitively damaged structures data
Florida Power and Light	Flooding emergency plans and critical facilities at risk
The Palm Beach Post	Historical data on flooding incidents
Freezing Temperatures	
National Climate Data Center - On-Line Data Base	Historical records on freezing temperatures
National Weather Service	Historical records on freezing temperatures
U. S. Department of Agriculture - County Extension Agents	Local agricultural data on frequency, impacts, and financial losses due to freezing temperatures
Florida Citrus Commission	Frequency and amount of financial losses to citrus crops due to freezing temperatures and long term industry impacts
Florida Department of Citrus	Frequency and amount of financial losses to citrus crops due to freezing temperatures and current mitigation strategies
Florida Department of Agriculture & Consumer Services	Frequency and amount of financial losses to all agricultural business as a result of freezing temperatures
Florida Farm Bureau	Frequency and amount of financial losses to all agricultural business as a result of freezing temperatures and current mitigation and risk reduction strategies
Florida State University	Agricultural research and new mitigation strategies to reduce freeze impacts
Florida Atlantic University	Freeze impacts to aquaculture industry
University of Florida	Agricultural research and new mitigation strategies to reduce freeze impacts

Source	Data Type
University of Miami	Agricultural research and new mitigation strategies to reduce freeze impacts
Florida Department of Environmental Protection	Environments at risk from freezing and environmental consequences of current agricultural mitigation strategies
South Florida Water Management District	Climate records and water demands associated with freeze mitigation
Palm Beach County Department of Agriculture	Historical impact and financial losses resulting from freezing temperatures in Palm Beach County
Palm Beach County Citrus and Farming Interest	Historical freeze losses and current mitigation strategies
Palm Beach County Red Cross	Impacts to poor and homeless due to freezing temperatures
Wildfires/Urban interface Zone and Muck Fires	
National Weather Service	Climate data/drought predictions
National Interagency Coordination Center Reports	Wildfire repots
National Climate Data Center - On-Line Data Base	Climate data
U. S. Forest Service	Wildfire reports and preventative measures
U. S. Department of Agriculture - County Extension Agents	Controlled burning/muck deposits
U. S. Geological Survey	Soil types/muck deposits
Florida Geological Society	Soil types/muck deposits
The Wildfire Assessment System	Wildfire statistics and containment procedures
Florida Forest Protection Bureau	Florida specific wildfire statistics and current preventative practices
Florida Department of Environmental Protection	Natural resources at risk and protective measures
Florida Fire Chief's Association	Florida specific wildfire statistics, firefighting technology, and potential mitigation measures for Florida communities
South Florida Water Management District	Water resources and right of way management practices

Source	Data Type
Palm Beach County Department of Agriculture	Land use patterns in Palm Beach County to establish areas at risk
Palm Beach County Planning Zoning & Building Department	Land use patterns in Palm Beach County to establish areas at risk
Palm Beach County Parks & Recreation Department	Land use patterns in Palm Beach County to establish areas at risk
Palm Beach County Fire Rescue - Fire Prevention Bureau	Land use patterns in Palm Beach County to establish areas at risk and current or in-place protective measures
Wildfire Magazine Data Base	Wildfire statistics
Palm Beach Post	Historical data on Palm Beach County wildfires/muck fires
Drought and High Temperatures	
National Weather Service	Climate data and drought predictions
National Climate Data Center - On-Line Data Base	Climate data
U.S.G.S. Historical and Real Time Data on Water Resources of South Florida	Water resources
U. S. Department of Agriculture - County Extension Agents	Historical data on droughts and the economic impacts to local agriculture
Florida Citrus Commission	Economic losses to the citrus industry from droughts
Florida Department of Citrus	Economic losses to the citrus industry from droughts and current irrigation technology
Florida Forest Protection Bureau	Drought statistics
Florida Department of Environmental Protection	Environmental impacts of droughts to natural ecosystems
Florida Department of Agriculture & Consumer Services	Agricultural losses due to droughts and current irrigation technology
South Florida Water Management District	Water allocations during drought conditions
Palm Beach County Department of Agriculture	County specific economic losses from drought and current economic vulnerability
Palm Beach County Parks & Recreation Department	Recreational resources impacted by droughts

Source	Data Type
Palm Beach County Water Utilities	Impacts from droughts of the potable water supplies and impacts in urban areas Water rationing plans
Municipal water utilities	Impacts of and water allotment plans during times of droughts in cities Water rationing plans
Coastal & Beach Erosion	
Florida Inland Navigational District	Maintenance records for the Intracoastal Waterway and other Palm Beach County navigable waters
South Florida Water Management District	Canal maintenance and erosion
Palm Beach County Environmental Resources Department	Environmental problems associated with erosion control and natural resources threatened by erosion
Palm Beach County Engineering and Public Works Department	Current erosion prevention measures
Palm Beach County Parks & Recreation Department	Current erosion prevention measures
Palm Beach County Coastal Municipalities	Current erosion prevention measures
Jupiter Inlet District	Information on beach erosion in and around Jupiter Inlet
Port of Palm Beach	Information on beach erosion in and around channel and inlet
Agricultural Pest and Diseases	
U. S. Forest Service	Forest diseases and current problem/preventative measures
U. S. Dept. of Agriculture - County Extension Agents	Local agricultural pest and potential exotic treats
U. S. Customs	Current programs to prevent introduction of agricultural pest and diseases
Florida Farm Bureau	Economic losses due to agricultural pest and diseases
Florida Citrus Commission	Citrus losses due to agricultural pest and diseases
Florida Forest Protection Bureau	Forest diseases and current problem/preventative measures
Florida State University	Agricultural research and pest control

Source	Data Type
Florida Atlantic University	Agricultural research and pest control
University of Florida	Agricultural research and pest control
University of Miami	Agricultural research and pest control
Florida Department of Environmental Protection	Environmental resources at risk and environmental consequences of current or proposed control measures
Florida Department of Agriculture & Consumer Services	Economic losses from agricultural pest and diseases and current control technology
Palm Beach County Department of Agriculture	Economic losses and current control programs
Palm Beach County Parks & Recreation Department	Pest control programs on public lands
Seismic Hazards	
U. S. Geological Survey	Geologic structure and seismic risk
Florida Geological Society	Geologic structure and soil characteristics
Technological Hazards	
Radiological Hazards	
U. S. Nuclear Regulatory Commission	Nuclear power plant regulation, accident statistics, and emergency procedures
Federal Emergency Management Agency	Nuclear power plant accident statistics, and emergency procedures
National Emergency Management Agency	Nuclear power plant and radiological emergency management procedures
Florida Division of Emergency Management	Nuclear power plant and radiological emergency management procedures
Florida Emergency Preparedness Association	Radiological emergency management procedures
State & Local Emergency Data Users Group Data Base	Radiological accident management database
Florida Power and Light Emergency Plan	Industry emergency management plans
Palm Beach County Division of Emergency Management Comprehensive Emergency Management Plan (CEMP)	Local radiological emergency management plan
Hospital Plans - Both Radiological Materials Disposal (Hazardous Waste) and Mass Radiation Casualties or Nuclear Accident Plans	Local radiological emergency plans and safeguards

Source	Data Type
Hazardous Materials	
Federal Emergency Management Agency	Hazardous material emergency management guideline
National Transportation Safety Board	Hazardous material transport regulation, spill cleanup procedures, and spill statistics
Occupational Safety and Health Agency	Hazardous material handling requirements
U. S. Environmental Protection Agency	List of hazardous materials
Hazardous Chemicals Database (On-line)	Hazardous materials data
Material Safety Data Sheets (On-line)	Specific chemical facts
State Emergency Response Commission (SERC) Emergency Plan for Hazardous Materials	Spill response procedures
Florida District and Local Emergency Planning Committee (LEPC) Emergency Plan for Hazardous Materials	Local sources and emergency management plans (vulnerabilities)
Facilities Database for Users of Extremely Hazardous Substances (EHS) and Hazardous Materials	Geo-referenced local database of users
Florida Division of Emergency Management	Methodology for handling hazardous material releases
Florida Emergency Preparedness Association	Methodology for handling hazardous material releases
Florida Department of Transportation	Highway spill data for hazardous material spill data Methodology for handling hazardous material releases
State & Local Emergency Data Users Group Database	Spill and release of hazardous materials statistics
Florida Fire Chiefs Association	Hazardous material emergency plans and containment procedures Spill/release statistics
Palm Beach County Division of Emergency Management	Methodology for handling hazardous material releases
Palm Beach County Fire Rescue	Methodology for handling hazardous material releases
Municipal Fire and Police Departments	Methodology for handling hazardous material releases

Source	Data Type
Palm Beach County Health Department	Methodology for handling hazardous material releases and emergency treatment procedures
Identified Users of EHS Emergency Plans	Industry control and emergency management plans for hazardous material
Local Gasoline and Natural Gas Companies	Location of critical facilities/infrastructure elements
Transportation System Accidents	
Federal Aeronautical Administration	Aircraft accident statistics and airport safety procedures
National Transportation Safety Board	Aircraft accident statistics
U. S. Coast Guard	Boating/shipping accidents (including oil and hazardous materials releases) and spill containment procedures
Florida Department of Transportation - Motor Carrier Compliance Division	Truck accidents (including oil and hazardous materials releases)
Florida Highway Patrol	Truck accidents (including oil and hazardous materials releases)
Florida Marine Patrol	Boating/shipping accidents (including oil and hazardous materials releases) and spill containment procedures
Palm Beach County Airports Department	Aircraft accident statistics and airport safety procedures
Palm Beach International Airport	Aircraft accident statistics and airport safety procedures
Port of Palm Beach Port Authority	Port management, accident statistics, and emergency management procedures
Palm Beach County Sheriff's Department - Marine Unit and Environmental Crimes Unit	Boating/shipping accidents (including oil and hazardous materials releases), spill containment procedures, and environmental crimes statistics
Florida East Coast Railway	Railway accident statistics (including oil and hazardous materials releases), and safety procedures
CSX Rail	Railway accident statistics (including oil and hazardous materials releases), and safety procedures
Palm Beach County Fire Rescue	Accident statistics involving injuries in Palm Beach County

Source	Data Type
Municipal police and fire departments	Accident statistics involving injuries in the cities
Power/Communications/Computer Grid System Failures	
Florida Power and Light Emergency Management Plans and Historical Database	Historical data and emergency management plans
Bell South Emergency Management Plan and Historical Database	Historical data and emergency management plans
Cellular and Satellite Communication Companies	Historical data and emergency management plans
The Banking Industry (Large Area Network - LANs Protection and Emergency Restoration Plans, as well as historical data on system failures)	Historical data and emergency management plans
Human Caused Hazards	
Civil Disturbance	
Federal Bureau of Investigation Database	Historical data
National Security Council Database	Historical data and risk analysis
Drug Enforcement Agency Database	Historical data
Immigration and Naturalization Service Database	Historical data
U. S. Customs Service	Historical data
U. S. Census Database	Population demographics
Florida Department of Law Enforcement	Historical data and situation plans
Florida Department of Health Education and Welfare	Historical data
Palm Beach County Sheriff's Department	Historical data and situation plans
Municipal Police Departments	Historical data and situation plans
Palm Beach County Fire Rescue	Historical data and situation plans
Palm Beach County Division of Emergency Management	Historical data and situation plans
Domestic Security: Terrorism, Sabotage, and Cyber Attacks	
Federal Bureau of Investigation Database	Historical data, situation plans, and risk analysis
National Security Council Database	Historical data, situation plans, and risk analysis
Drug Enforcement Agency Database	Historical data

Source	Data Type
Immigration and Naturalization Service Database	Historical data and preventative measures
U. S. Census Database	Population demographics
Florida Department of Law Enforcement	Historical data, situation plans, and risk analysis
Florida Department of Health Education and Welfare	Population demographics
Palm Beach County Sheriff Department	Historical data, situation plans, and risk analysis
Municipal Police Departments	Historical data, situation plans, and risk analysis
Palm Beach County Fire Rescue	Historical data, situation plans, and risk analysis
Palm Beach County Division of Emergency Management	Historical data on injuries
American Society for Industrial Security	Risk analysis techniques and database
Mass Migration	
U. S. Coast Guard	Historical data and situation plans
Immigration and Naturalization Service	Historical data, situation plans, and risk analysis
Florida Marine Patrol	Situation plans and interagency coordination
Florida Department of Law Enforcement	Historical data, situation plans, risk analysis, and interagency coordination
Florida Department of Health, Education and Welfare	Population demographics
Palm Beach County Sheriff Department	Historical data, situation plans, risk analysis, and interagency coordination
Municipal Police Departments	Historical data, situation plans, risk analysis, and interagency coordination
Palm Beach County Fire Rescue	Situation plans and interagency coordination
Palm Beach County Division of Emergency Management	Historical data and medical risk analysis

Source	Data Type
Workplace/School Violence	
Palm Beach County Division of Emergency Management	Workplace/School Violence Hazard Specific Plan
Miscellaneous Data Sources	
Federal Bureau of Investigation Database	Historical data
National Security Council Database	Historical data
Drug Enforcement Agency Database	Historical data
Immigration and Naturalization Service Database	Historical data
U. S. Census Database	Population demographics
U. S. Public Health Service	Disease risk
Florida Department of Law Enforcement	Historical data
Florida Department of Health Education and Welfare	Historical data
Florida Department of Labor	Historical data
Palm Beach County Sheriff Department	Historical data
Municipal Police Departments	Historical data
Palm Beach County Fire Rescue	Historical data
Palm Beach County Health Department	Historical data