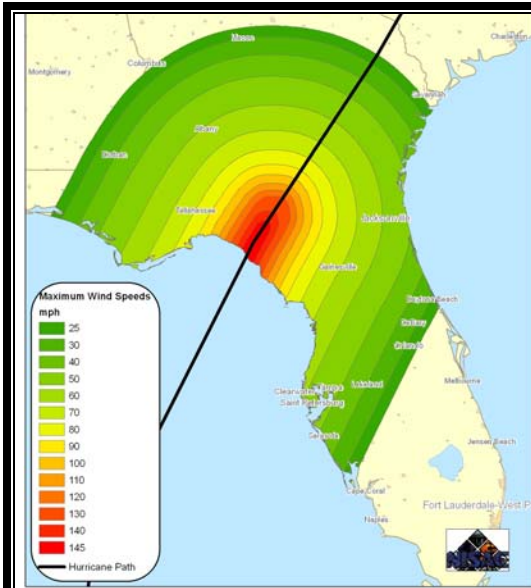




Office of Infrastructure Protection Tallahassee Area Hurricane Analysis Summary



Scenario Storm Characteristics

- Category 4 hurricane at landfall
- Maximum sustained winds > 145 mph
- Estimated storm surge of 15 feet
- Landfall southeast of Tallahassee, FL
- Major cities most impacted: Tallahassee and Gainesville, FL

Population		
Population within Potential Surge Zones (population within each flood depth range)	11+ feet	16,100
	9-10 feet	18,600
	6-8 feet	12,100
	1-5 feet	41,300
Population Impacted by Potential Power Outages (widespread power outages expected in northern Florida and southern Georgia – localized outages expected in remaining areas)	Affected	> 4,200,000
	11 days	75% restored
	20-25 days	Fully restored
Estimated Economic Impacts		
Direct costs for business interruptions	\$3-4 billion	
Total costs for business interruptions	\$7-13 billion	
Facilities of Interest		
Major Seaports (could be affected by storm surge and winds)	<ul style="list-style-type: none"> • Tampa Bay ports 	
Expected Major Airport Closures	<ul style="list-style-type: none"> • Gainesville Regional • Tampa International 	
Natural Gas Pipelines (significant natural gas is used for power generation)	<ul style="list-style-type: none"> • Gulfstream pipeline • Florida Gas Transmission Company pipeline 	
Water Remote Control Facility (monitors 29 wells)	<ul style="list-style-type: none"> • Thomas P. Smith Wastewater Reclamation Facility 	
Major Wastewater Treatment Facilities	<ul style="list-style-type: none"> • Thomas P. Smith Wastewater Reclamation Facility • Lake Bradford Road Wastewater Treatment Facility 	

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Impacts by Infrastructure Sector

Infrastructure	Level	Impacts	-Low	-Medium	-High
Agriculture		<ul style="list-style-type: none"> Florida's agricultural economy is dominated by greenhouse and nursery stock followed by citrus, tomatoes, and cattle; South Georgia's is primarily cotton and peanuts 			
Banks & Finance		<ul style="list-style-type: none"> No long-term impacts expected due to backup systems but ATM and bank card service in the area could be disrupted 			
Chemical: Plants		<ul style="list-style-type: none"> Minor impacts expected, temporary shutdown of some plants but there are redundant capabilities elsewhere in the U.S. 			
Commercial Facilities		<ul style="list-style-type: none"> Impacts not major, loss of business due to electric power outages 			
Dams		<ul style="list-style-type: none"> There are few dams in the hurricane impact areas Consequences of dam failure catastrophic but low risk of failure 			
Defense Industrial Base		<ul style="list-style-type: none"> Many military and supporting defense industrial base sites in the area may experience wind damage and telecommunications and power outages 			
Emergency Services		<ul style="list-style-type: none"> Emergency response delays expected due to transportation, electrical power, and telecommunications disruptions 			
Energy: Electric Power		<ul style="list-style-type: none"> Widespread power outages expected in western FL and southern GA; potential for >4,200,000 people to experience power outages Localized outages expected in the rest of GA and northern FL 75% restoration expected within 11 days Full restoration may take 22-25 days 			
Energy: Natural Gas		<ul style="list-style-type: none"> Compressor stations in the highest impacted zones do not rely on electric power 			
Energy: Petroleum		<ul style="list-style-type: none"> Product delivered by trucks, barges, or tankers A lot of refined products for Florida go through the Port of Tampa 			
Government Facilities		<ul style="list-style-type: none"> Impacts not significant 			
Information Technology		<ul style="list-style-type: none"> Impacts not significant 			
National Monuments		<ul style="list-style-type: none"> Impacts not significant 			
Nuclear Facilities		<ul style="list-style-type: none"> Farley (1,777 MW) and Hatch (1,722 MW) nuclear power plants are the only plants within the impacted areas and Farley is expected to shut down in advance of the storm 			
Postal & Shipping		<ul style="list-style-type: none"> Expect delays due to transportation impacts 			
Hospitals & Nursing Homes		<ul style="list-style-type: none"> Evacuations and potential closure of some facilities in impacted area will increase demand on neighboring regional facilities 			
Telecomm: Wireline		<ul style="list-style-type: none"> Expect damage to telecommunications infrastructure (poles and overhead lines) especially in coastal areas of FL Restoration of full service may take weeks 			
Telecomm: Wireless		<ul style="list-style-type: none"> Winds expected to damage many cellular towers A power outage of > 4 hours will drain cell tower backup batteries causing the towers to power down 			
Transport: Road/Rail		<ul style="list-style-type: none"> Ground transportation impacts due to flooding and debris and could be impacted due to flooding 			
Transport: Airports		<ul style="list-style-type: none"> Airport closures expected in Tallahassee and Gainesville, FL; delays are possible at other airports 			
Transport: Seaports		<ul style="list-style-type: none"> Expect damage or disruption at several ports and marine facilities having commercial and/or military importance Port facilities closures expected along the northwest coast of Florida 			
Water: Drinking Water		<ul style="list-style-type: none"> 5 potable water treatment plants located in areas expected to experience hurricane force winds Likely need for boil orders and/or bringing water into the area 105 drinking water treatment plants are in areas that could have power outages > 4 days 			
Water: Wastewater		<ul style="list-style-type: none"> 20 wastewater treatment plants located in areas expected to experience hurricane force winds 223 wastewater treatment plants are in areas that could have power outages exceeding 4 days (potential loss of function due to exhausted backup power generation) 			

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