

POST TROPICAL CYCLONE REPORT

Storm Name	Major Hurricane Helene
NWS Office	Melbourne
Begin/End Date	09/24/2024 - 09/27/2024
Fatalities	0 - Direct 0 - Indirect
Tornadoes	0

Event Summary

Major Hurricane Helene made landfall along the Florida Big Bend shortly after 11 PM EDT on Thursday, September 26, 2024, just east of the mouth of the Aucilla River. Helene intensified to an extremely dangerous Category 4 hurricane as it approached the Florida Gulf Coast, and its effects extended hundreds of miles from the center of the storm. Impacts to east central Florida included downed trees, broken branches, and fallen power lines, which resulted in scattered power outages. Total rainfall amounts ranged from 1 to 3 inches with locally higher amounts approaching 4 inches, primarily along the Treasure Coast. Overall, damage to infrastructure and vegetation was sporadic, with four homes damaged in Lake County and one home damaged in Martin County (Stuart, FL) due to fallen trees.

NOTE: It is unlikely that the point-based observations provided in this report sampled the peak values for the event.

Highest 10 Land Winds (kts)*

<i>Station</i>	<i>State</i>	<i>Type</i>	<i>Sustained</i>	<i>Gust</i>
Orlando International Airport	FL	ASOS	39	58
Orlando Executive Airport	FL	ASOS	37	55
Vero Beach Regional Airport	FL	ASOS	36	51
Orlando Sanford International Airport	FL	ASOS	34	52
Saint Lucie NPP	FL	WxFlow	34	47
Leesburg International Airport	FL	ASOS	33	54
Melbourne South DB8	FL	WxFlow	33	43
Melbourne Orlando International Airport	FL	ASOS	31	46
Patrick Space Force Base	FL	AWOS	30	43
Treasure Coast International Airport	FL	ASOS	30	42

* Anemometer heights < 20 m

Highest 10 Marine Winds (kts)*

<i>Station</i>	<i>Type</i>	<i>Sustained</i>	<i>Gust</i>
KSC/CCSFS WINDS Tower 0003	Other Federa	45	57
KSC/CCSFS WINDS Tower 0002	Other Federa	40	56
Banana River at 520	WxFlow	37	49
Buoy 41009 - 20 NM East of Cape Cana	NDBC	37	51
Buoy 41069 - Ponce de Leon Inlet FL (P IOOS Partner)		37	52
KSC/CCSFS WINDS Tower 0001	Other Federa	36	54
KSC/CCSFS WINDS Tower 0403	Other Federa	36	53
Trident Pier, Port Canaveral, FL	NOS	35.9	47
Jensen Beach	WxFlow	35	47
KSC/CCSFS WINDS Tower 0714	Other Federa	34	51

* Anemometer heights < 20 m

Highest 10 Rainfall Totals

<i>Station</i>	<i>State</i>	<i>Type</i>	<i>Inches</i>
Palm City 0.9 SW	FL	COCORAHS	3.62
Palm City 1.4 NW	FL	COCORAHS	3.57
Palm City 3.1 NW	FL	COCORAHS	3.48
Stuart 1.0 ESE	FL	COCORAHS	3.41
Port Salerno 2.4 SW	FL	COCORAHS	3.13
Montverde	FL	CWOP	3.03
Stuart 8.4 S	FL	COCORAHS	2.98
Hobe Sound 0.6 WNW	FL	COCORAHS	2.78
Port St. Lucie 4.0 NE	FL	COCORAHS	2.54
Stuart 5.8 S	FL	COCORAHS	2.35

Highest NOAA Tide Gage Observations

<i>Station</i>	<i>State</i>	<i>Datum</i>	<i>Water Level (ft)</i>
Trident Pier, Port Canaveral, FL	FL	MHHW	1.57

Lowest 10 Pressures (MSLP)

<i>Station</i>	<i>State</i>	<i>Type</i>	<i>Millibars</i>
Reedy Lake	FL	WxFlow	990.3
Disney Safety Demo	FL	WxFlow	993.1
Spring Lake	FL	WxFlow	993.3
Leesburg International Airport	FL	ASOS	995.0
Orlando Executive Airport	FL	ASOS	997.0
Kissimmee Gateway Airport	FL	AWOS	997.9
Daytona Beach International Airport	FL	ASOS	998.0
Orlando International Airport	FL	ASOS	998.0
Orlando Sanford International Airport	FL	ASOS	998.0
Buoy 41069 - Ponce de Leon Inlet FL (PNC)		IOOS Partner:	999.3

Report Last Updated on 09/28/2024:

The following files have been updated: Wind and Pressure, Rainfall, Water Level, Tornadoes, and Impact Narratives.

Remarks:

Rainfall data was collected between 12z September 24th and 12z September 28th due to lingering rainfall associated with Major Hurricane Helene as it moved north of the local area.