

# POST TROPICAL CYCLONE REPORT

<b>Storm Name</b>	Hurricane Helene
<b>NWS Office</b>	Jacksonville, FL
<b>Begin/End Date</b>	09/25/2024-09/27/2024
<b>Fatalities</b>	[5] - Direct [1] - Indirect
<b>Tornadoes</b>	1

## Event Summary

Hurricane Helene made landfall as a category 4 with peak winds of near 140 mph in the Florida Big Bend just east of the Aucilla River Entrance in Taylor County, late Thursday evening September 26, 2024. Helene's main impact to southeast Georgia and northeast Florida was wind damage as it tracked quickly north-northeast. The very powerful hurricane and the forward motion produced a wide swath of wind damage across the forecast area with peak wind gusts 55 to 75 mph across the eastern half of the area, and western zones up to 75 to 100 mph from the Suwannee Valley area northward through interior southeast GA. The max wind gust of 100 mph was measured at the Alma GA ASOS in the early morning hours of Friday September 27th. Given the strength of these winds, widespread power outages, structure damage and downed or uprooted trees occurred across inland southeast GA and portions of northeast FL. At least 1 tornado occurred, which was in Coffee county. Maximum rainfall amounts of 3 to 5 inches were located over western half of the area.

*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>
Alma Bacon Co Ap	GA	ASOS	49	87
Huguenot Park	FL	WxFlow	43	58
Brunswick-mckinnon Ap	GA	ASOS	42	60
Jacksonville NAS	FL	ASOS	41	64
Jekyll Island	GA	WxFlow	40	53
Clyde Kirkland Farm	GA	University of	40	80
Jacksonville Intl Ap	FL	ASOS	39	63
SummerHouse	FL	WxFlow	39	53
Jacksonville Craig Muni Ap	FL	ASOS	38	60
Lake City Muni	FL	AWOS	38	60

\* Anemometer heights < 20 m

### Highest 10 Marine Winds (kts)\*

<i>Station</i>	<i>Type</i>	<i>Sustained</i>	<i>Gust</i>
St. Augustine FL	C-MAN	48	57
I-295 Buckman Bridge St Johns River FL	NOS	39	57
Fernandina Beach FL	NOS	29	45
Mayport (Bar Pilots Dock) FL	NOS	28	45

\* Anemometer heights < 20 m

### Highest 10 Rainfall Totals

<i>Station</i>	<i>State</i>	<i>Type</i>	<i>Inches</i>
Lumber City 1 SE	GA	HADS	5.10
Jekyll Island Airport	GA	UGA Weather	3.92
Statenville	GA	HADS	3.68
HAZLEHURST AIRPORT AWOS	GA	AWOS	3.44
TRENTON	FL	CoCoRaHS	3.22
Edwin's Pivot Farm	GA	UGA Weather	3.21
ALMA BACON COUNTY AP	GA	ASOS	3.16

### Highest NOAA Tide Gage Observations

<i>Station</i>	<i>State</i>	<i>Datum</i>	<i>Water Level (ft)</i>
I-295 Buckman Bridge	FL	MHHW	2.10
Southbank Riverwalk, St Johns River	FL	MHHW	2.01
Dames Point	FL	MHHW	1.66
Mayport (Bar Pilots Dock)	FL	MHHW	1.20
Kings Bay MSF Pier	GA	MHHW	1.12
Fernandina Beach	FL	MHHW	1.10

### Lowest 10 Pressures (MSLP)

<i>Station</i>	<i>State</i>	<i>Type</i>	<i>Millibars</i>
Edwin's Pivot Farm	GA	University of	964.3
Clyde Kirkland Farm	GA	University of	968.6
Jekyll Island Airport	GA	University of	972.0
Booth Berry Farms	GA	University of	973.8
Miles Berry Farm	GA	University of	974.4
Alma Bacon Co Ap	GA	ASOS	975.6
Mixon Farms	GA	University of	976.5
ZBLU Berry Farms	GA	University of	987.0
Jacksonville	FL	WxFlow	990.2
Gainesville Rgnl Ap	FL	ASOS	990.6

### ***Report Last Updated on [09/30/2024]:***

The following files have been updated: Peak winds, rainfall, lowest pressure, impacts, and tornadoes

### **Remarks:**

Notes: 1. Some surface observations failed during the high wind event from Hurricane Helene so those observations may not have captured the peak winds, pressure, and rainfall at those stations. One example was Alma GA (ASOS) failed in the middle of the night when wind gusts were up to 100 mph. 2) Rainfall data was collected from Sept 26-28th. 3) Impacts from counties affected are still coming in and so further updates will be made.