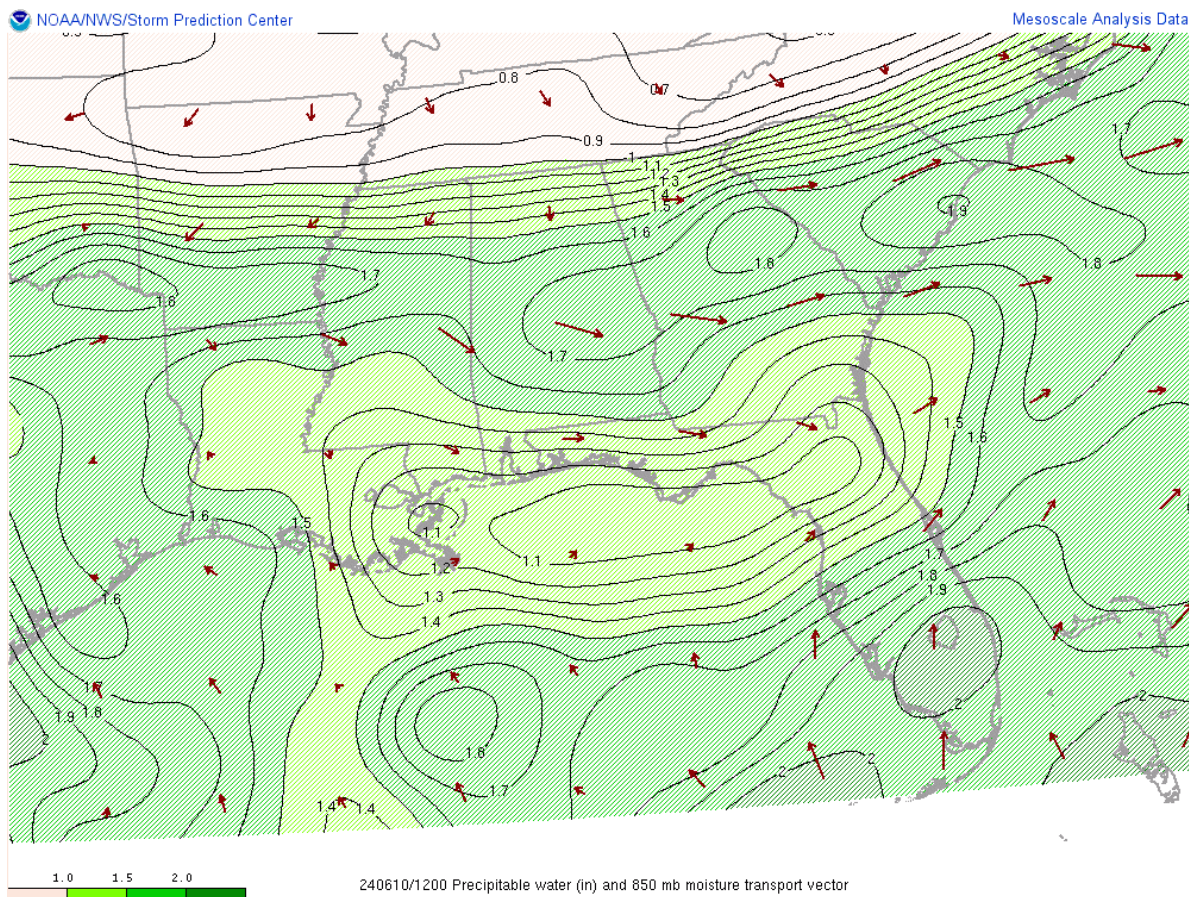


# West Central and Southwest Florida Heavy Rainfall Event: June 10<sup>th</sup> - June 13<sup>th</sup>, 2024

As a tropical disturbance and surge of moisture lifted northward over portions of the Florida peninsula during the week of June 10<sup>th</sup>, several rounds of heavy rainfall occurred across West Central and Southwest Florida. Over the course of the week, many locations experienced significant heavy rainfall. Several daily (and even hourly) records were broken during the week. In some locations, much of this rainfall fell during a very short duration, leading to flooding.

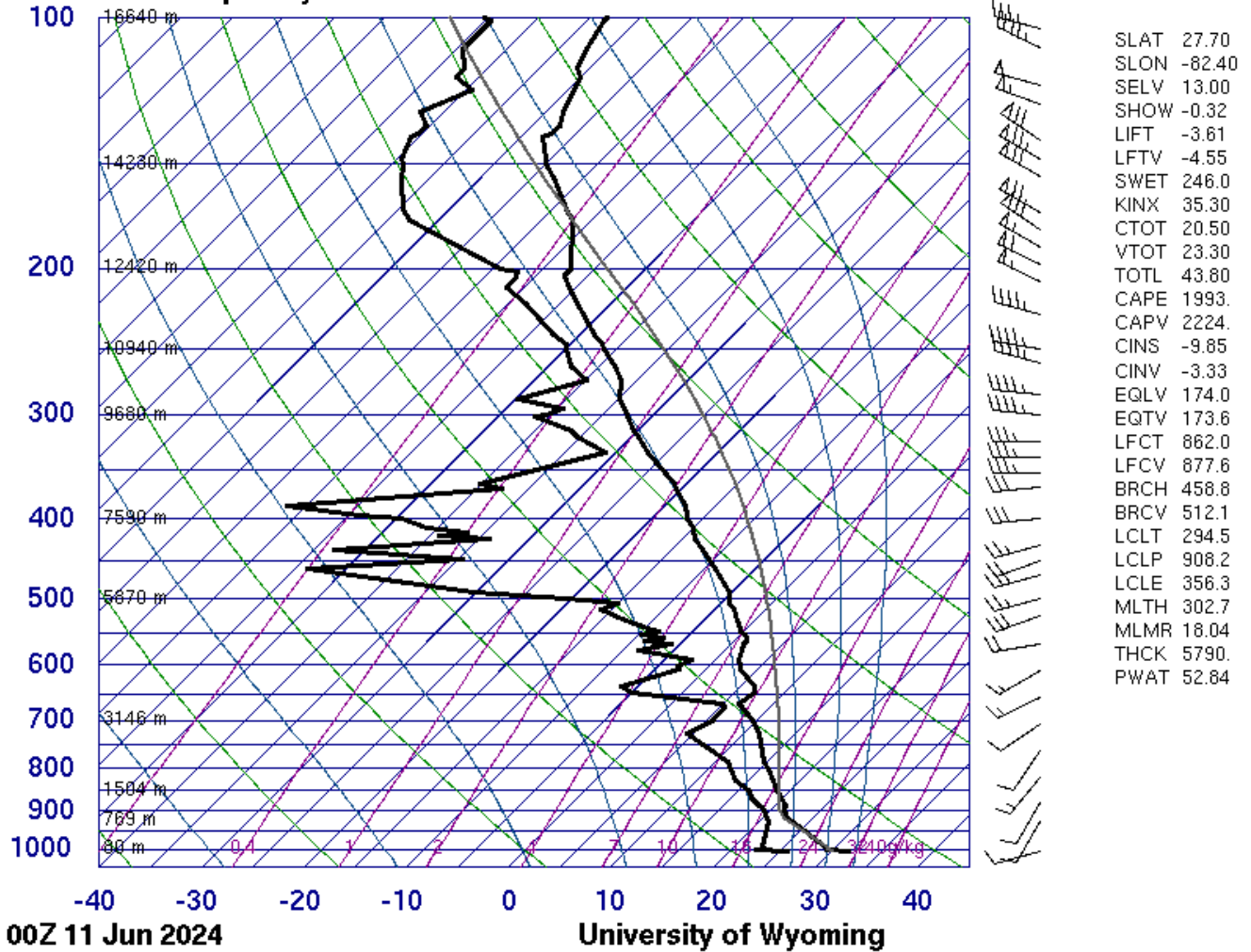
## Overview

Beginning on the morning of June 10<sup>th</sup>, tropical moisture associated with a disorganized tropical wave surged northward. While this wave would not be able to organize before reaching the FL West Coast, the added moisture and instability was expected to enhance thunderstorm activity across the state.



By the evening of the 10<sup>th</sup>, the Precipitable Water (PWAT) values – a representation of how much water is present in the atmosphere, was observed at 52.84 mm or 2.08 in.

### 72210 TBW Tampa Bay Area



Climatologically, this value was exceeding the 90<sup>th</sup> percentile for the day. This meant that the amount of moisture available in the atmosphere was exceptionally rare for this date.

| <b>Jun 10 (00Z)</b> |      |      |      | Go to Current Date: |            | <b>00Z</b> | <b>12Z</b> |      |           |  |
|---------------------|------|------|------|---------------------|------------|------------|------------|------|-----------|--|
| Daily Min           | Min  | 10%  | 25%  | Median              | Daily Mean | 75%        | 90%        | Max  | Daily Max |  |
| 0.86                | 0.86 | 1.20 | 1.38 | 1.59                | 1.68       | 1.79       | 1.95       | 2.23 | 2.21      |  |

# 00Z Soundings for TBW

Data Readout [Unlock Data](#)

Go to Current Date: **00Z** **12Z**

| Daily Min | Min  | 10%  | 25%  | Median | Daily Mean | 75%  | 90%  | Max  | Daily Max |
|-----------|------|------|------|--------|------------|------|------|------|-----------|
| 0.86      | 0.86 | 1.20 | 1.38 | 1.59   | 1.68       | 1.79 | 1.95 | 2.23 | 2.21      |

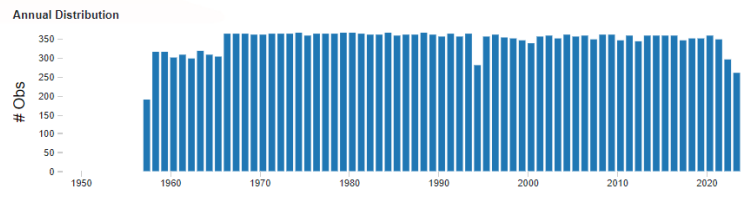
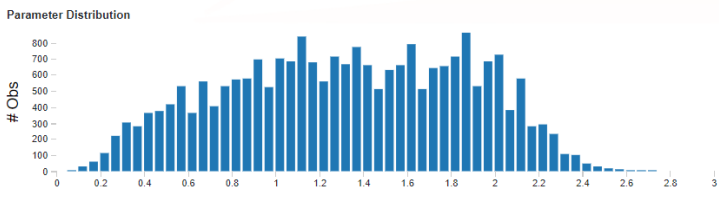
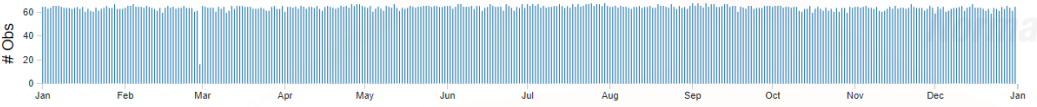
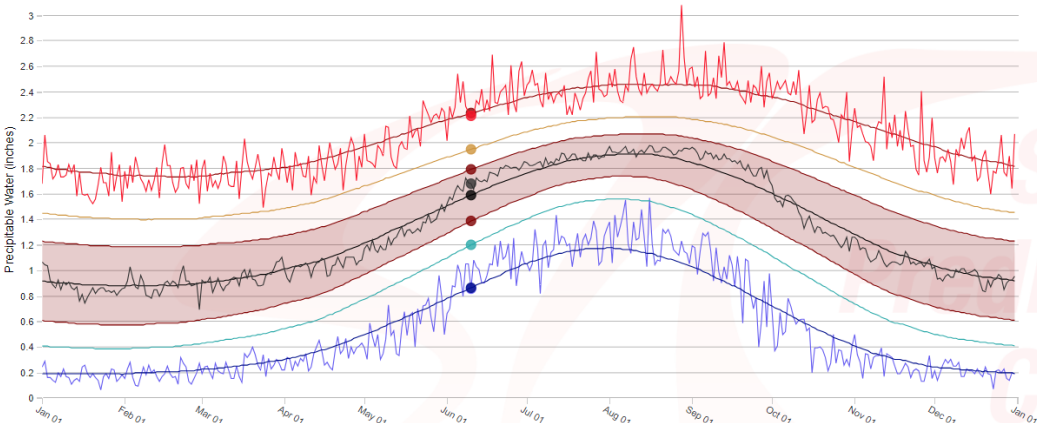
Latest 00z pw data: 2.21 in  
No data for 12z pw

Selected Time Range Max/Min

Number of Soundings to Show:

| Max Values               | Min Values               |
|--------------------------|--------------------------|
| 08/28/2009 (00Z) 3.08 in | 01/23/2009 (00Z) 0.06 in |
| 09/13/1982 (00Z) 2.79 in | 12/23/2012 (00Z) 0.07 in |
| 08/10/2005 (00Z) 2.75 in | 02/06/2009 (00Z) 0.09 in |
| 08/21/1995 (00Z) 2.73 in | 02/05/2009 (00Z) 0.10 in |
| 09/06/2004 (00Z) 2.72 in | 02/21/2009 (00Z) 0.11 in |
| 07/27/1990 (00Z) 2.71 in | 01/12/2010 (00Z) 0.11 in |
| 06/18/2003 (00Z) 2.69 in | 02/26/2010 (00Z) 0.11 in |
| 09/11/2017 (00Z) 2.68 in | 01/06/1999 (00Z) 0.12 in |
| 08/29/2017 (00Z) 2.67 in | 03/16/2018 (00Z) 0.12 in |

Period of Record  
TBW (1975/07/23-2022/10/03; 34499 soundings)  
TPA (1948/01/01-1975/07/22; 20002 soundings)



On the morning of June 11<sup>th</sup>, the highest value of the event was observed: 57.81 mm or 2.28 in. This was a new daily record for the day.

**Jun 12 (12Z)**

Go to Current Date: **00Z** **12Z**

| Daily Min | Min  | 10%  | 25%  | Median | Daily Mean | 75%  | 90%  | Max  | Daily Max |
|-----------|------|------|------|--------|------------|------|------|------|-----------|
| 1.14      | 0.83 | 1.15 | 1.33 | 1.52   | 1.63       | 1.71 | 1.87 | 2.17 | 2.22      |

In response, significant heavy rainfall occurred across the region beginning on the 10<sup>th</sup> and continuing through the 13<sup>th</sup>. Rainfall totals across Central and Southwest Florida averaged anywhere from 4 to 10 inches, with some locations seeing even higher totals, notably in southern Lee County, northern Sarasota County, and even northern Pinellas County.

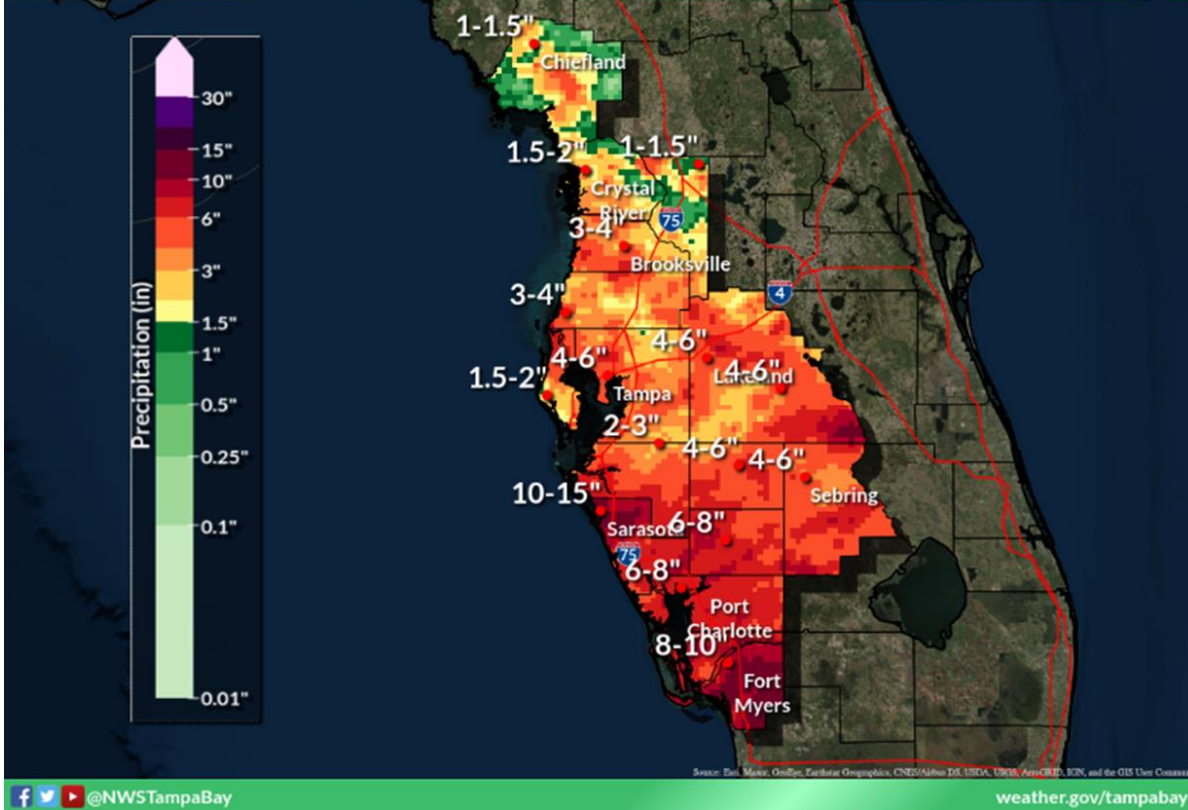
Several locations broke daily rainfall records as flooding occurred in some urban locations through the week. One storm in Sarasota County dumped over 10 inches of rain during the course of the event.

# Past 7 Days Precipitation

Weather Forecast Office  
Tampa Bay/Ruskin, FL  
Issued Jun 17, 2024 8:05 AM EDT



Valid Mon 8:00AM through Mon 7:00AM EDT



ISSUED Jun 13<sup>TH</sup> 2024  
Tampa Bay  
AT 4:30 AM EDT

## RECORD RAINFALL YESTERDAY

June 12, 2024

# 3.86"

## Fort Myers

Previous record: 2.14" in 2008

Records for Fort Myers Date Back to 1902

### RECORD RAINFALL

weather.gov/TampaBay



**NWS Tampa Bay** @NWSTampaBay · Jun 12

⚠️ Flood Advisories for Lee County in Effect through 2:30PM ⚠️

Heavy rainfall this morning has led to water over #SWFL roadways in Lee County. Reminder: NEVER drive through floodwaters  
[#TurnAroundDontDrown](#) [#flwx](#)



**nathan** @NathanSWFL · Jun 12

Serious flooding in South Fort Myers has Gladiolus and Summerlin nearly impassable. LCSO Community Service helping to divert around the deep waters. Here's a little taste of some side street flooding in the area. [#swfl](#) [#flwx](#)




2

8

35

6.9K





ISSUED Jun 13<sup>TH</sup>  
**Tampa Bay**  
 AT 4:30AM EDT

# RECORD RAINFALL SET

## June 12th, 2024

# 2.90"

## Winter Haven Airport

*Previous record: 2.72" in 2006*

Records for  
 Winter Haven  
 Date  
 Back to 1941

[weather.gov/TampaBay](http://weather.gov/TampaBay)

[Public Information Statement](#)

National Weather Service Tampa Bay Ruskin FL  
 948 PM EDT Thu Jun 13 2024

...HIGHEST 4-DAY PRECIPITATION REPORTS...

| Location               | Amount  | Time/Date     | Provider |
|------------------------|---------|---------------|----------|
| ...Florida...          |         |               |          |
| ...Charlotte County... |         |               |          |
| Punta Gorda            | 7.44 in | 0931 PM 06/13 | CWOP     |
| Punta Gorda            | 7.27 in | 0930 PM 06/13 | CWOP     |
| Punta Gorda            | 6.67 in | 0845 PM 06/13 | CWOP     |
| Punta Gorda 1.6 NNW    | 6.45 in | 1150 AM 06/13 | COCORAHS |
| 3 SE North Port        | 6.44 in | 0935 PM 06/13 | AWS      |

|   |          |         |       |                      |
|---|----------|---------|-------|----------------------|
| PUNTA GORDA                             | 5.30 in  | 0912 PM | 06/13 | CWOP                 |
| Punta Gorda                             | 5.17 in  | 0853 PM | 06/13 | <a href="#">ASOS</a> |
| Port Charlotte                          | 5.09 in  | 0940 PM | 06/13 | CWOP                 |
| Grove City                              | 3.67 in  | 0935 PM | 06/13 | AWS                  |
| ...Hillsborough County...               |          |         |       |                      |
| Sun City Center                         | 4.42 in  | 0940 PM | 06/13 | CWOP                 |
| Brandon                                 | 4.41 in  | 0939 PM | 06/13 | CWOP                 |
| 3.1 W Temple Terrace                    | 4.40 in  | 0930 PM | 06/13 | HADS                 |
| Carrollwood 1.3 N                       | 3.98 in  | 0600 PM | 06/13 | COCORAHS             |
| Wimauma                                 | 3.98 in  | 0936 PM | 06/13 | AWS                  |
| VALRICO                                 | 3.94 in  | 0939 PM | 06/13 | CWOP                 |
| 0.9 NE Carrollwood                      | 3.75 in  | 0915 PM | 06/13 | HADS                 |
| Tampa                                   | 3.74 in  | 0935 PM | 06/13 | CWOP                 |
| WIMAUMA                                 | 3.50 in  | 0940 PM | 06/13 | CWOP                 |
| 1 NW Wimauma                            | 3.32 in  | 0935 PM | 06/13 | AWS                  |
| 2.7 NW Riverview                        | 3.28 in  | 0900 PM | 06/13 | HADS                 |
| 1.2 E Palm River-Clair Mel              | 3.24 in  | 0900 PM | 06/13 | HADS                 |
| Brandon                                 | 3.23 in  | 0935 PM | 06/13 | AWS                  |
| Riverview                               | 3.22 in  | 0919 PM | 06/13 | CWOP                 |
| Plant City                              | 3.22 in  | 0938 PM | 06/13 | CWOP                 |
| Riverview                               | 3.20 in  | 0939 PM | 06/13 | CWOP                 |
| 2.9 NW Lithia                           | 3.06 in  | 0900 PM | 06/13 | HADS                 |
| Riverview                               | 3.01 in  | 0935 PM | 06/13 | CWOP                 |
| ...Lee County...                        |          |         |       |                      |
| 3 N Estero                              | 16.06 in | 0931 PM | 06/13 | AWS                  |
| 2 SSW Whiskey <a href="#">Creek</a>     | 13.89 in | 0934 PM | 06/13 | AWS                  |
| 5 W Lehigh Acres                        | 12.94 in | 0934 PM | 06/13 | AWS                  |
| Fort Myers                              | 12.75 in | 0934 PM | 06/13 | <a href="#">ASOS</a> |
| 2 NE Quail <a href="#">Creek</a> Estate | 12.62 in | 0935 PM | 06/13 | AWS                  |
| 1 S Whiskey <a href="#">Creek</a>       | 11.84 in | 0935 PM | 06/13 | AWS                  |
| Southwest Internat                      | 11.81 in | 0934 PM | 06/13 | AWS                  |
| 1 ESE Fort Myers Villas                 | 11.74 in | 0930 PM | 06/13 | AWS                  |

|  |          |         |       |                      |
|--|----------|---------|-------|----------------------|
| 2 NE Estero                              | 11.59 in | 0932 PM | 06/13 | AWS                  |
| 1 NNE Page Park-Pine Man                 | 11.10 in | 0935 PM | 06/13 | AWS                  |
| NORTH FORT MYERS                         | 10.91 in | 0935 PM | 06/13 | CWOP                 |
| Fort Myers                               | 10.72 in | 0935 PM | 06/13 | CWOP                 |
| Fort Myers                               | 10.68 in | 0900 PM | 06/13 | <a href="#">ASOS</a> |
| Southwest Internat                       | 10.52 in | 0935 PM | 06/13 | AWS                  |
| 1 W Fort Myers                           | 10.50 in | 0935 PM | 06/13 | AWS                  |
| Fort Myers                               | 10.08 in | 0935 PM | 06/13 | AWS                  |
| Ding Darling <a href="#">Nwr</a>         | 9.41 in  | 0917 PM | 06/13 | RAWS                 |
| 1 NW Fort Myers                          | 9.32 in  | 0935 PM | 06/13 | AWS                  |
| 3 SE Lehigh Acres                        | 9.15 in  | 0935 PM | 06/13 | AWS                  |
| NORTH FORT MYERS                         | 8.71 in  | 0935 PM | 06/13 | CWOP                 |
| Fort Myers                               | 8.69 in  | 0935 PM | 06/13 | CWOP                 |
| Sanibel                                  | 8.22 in  | 0938 PM | 06/13 | CWOP                 |
| 1 NNW Quail <a href="#">Creek</a> Estate | 7.96 in  | 0935 PM | 06/13 | AWS                  |
| 6 NNW <a href="#">Cape</a> Coral         | 7.94 in  | 0933 PM | 06/13 | AWS                  |
| 1 NW Lehigh Acres                        | 7.54 in  | 0935 PM | 06/13 | AWS                  |
| 3 NW Bonita Springs                      | 7.38 in  | 0935 PM | 06/13 | AWS                  |
| Southwest Internat                       | 7.01 in  | 1226 PM | 06/13 | AWS                  |
| 2 WNW <a href="#">Cape</a> Coral         | 6.99 in  | 0930 PM | 06/13 | AWS                  |
| Fort Meyers                              | 6.29 in  | 0939 PM | 06/13 | CWOP                 |
| 1 NW Fort Myers                          | 5.98 in  | 0935 PM | 06/13 | AWS                  |
| 3 SE Estero                              | 5.92 in  | 0935 PM | 06/13 | AWS                  |
| <a href="#">Cape</a> Coral               | 4.89 in  | 0939 PM | 06/13 | CWOP                 |

...Manatee County...

|                              |         |         |       |                      |
|------------------------------|---------|---------|-------|----------------------|
| Lakewood Ranch               | 8.39 in | 0935 PM | 06/13 | CWOP                 |
| Sarasota Bradent             | 7.80 in | 0853 PM | 06/13 | <a href="#">ASOS</a> |
| 7.6 E Lake Manatee State Par | 5.73 in | 0915 PM | 06/13 | HADS                 |
| Ruskin                       | 5.49 in | 0936 PM | 06/13 | CWOP                 |
| 3.6 E Oneco                  | 4.02 in | 0900 PM | 06/13 | HADS                 |
| 5.2 NE Desoto Lakes          | 3.92 in | 0915 PM | 06/13 | HADS                 |
| 3.0 NW Lake Manatee State Pa | 3.33 in | 0915 PM | 06/13 | HADS                 |
| Colonie                      | 3.24 in | 0930 PM | 06/13 | CWOP                 |



...Pasco County...

5.4 NE Zephyrhills 3.35 in 0845 PM 06/13 HADS

...Pinellas County...

TARPON SPRINGS 5.68 in 0939 PM 06/13 CWOP

Seminole 4.68 in 0930 PM 06/13 CWOP

3.0 NW Oldsmar 4.31 in 0900 PM 06/13 HADS

5.5 SW Odessa 4.25 in 0900 PM 06/13 HADS

Crystal Beach 4.22 in 0930 PM 06/13 CWOP

Seminole 4.01 in 0930 PM 06/13 CWOP

Palm Harbor 3.84 in 0933 PM 06/13 CWOP

St Petersburg 3.50 in 0925 PM 06/13 CWOP

Clearwater 3.02 in 0930 PM 06/13 CWOP

...Polk County...

Avon Park Afr North 7.33 in 0901 PM 06/13 RAWs

Indian Lake Estates 7.12 in 0935 PM 06/13 CWOP

Auburndale 6.77 in 0939 PM 06/13 CWOP

Frostproof 6.56 in 0937 PM 06/13 CWOP

2 SW Polk City 5.05 in 0930 PM 06/13 AWS

Lakeland 4.51 in 0936 PM 06/13 CWOP

DAVENPORT 4.46 in 0935 PM 06/13 CWOP

1 NW Gibsonia 4.19 in 0934 PM 06/13 AWS

2 S Polk City 3.81 in 0935 PM 06/13 AWS

Auburndale 3.50 in 0937 PM 06/13 CWOP

Dundee 3.35 in 0936 PM 06/13 CWOP

Lakeland 3.34 in 0935 PM 06/13 CWOP

Lakeland 3.30 in 0930 PM 06/13 CWOP

Winter Haven 3.15 in 0853 PM 06/13 [ASOS](#)

2 [WSW](#) Highland City 3.04 in 0935 PM 06/13 AWS

...Sarasota County...

1 NNE Siesta Key 12.87 in 0935 PM 06/13 AWS

|  |         |               |          |
|--|---------|---------------|----------|
| Sarasota                                 | 8.42 in | 0930 PM 06/13 | CWOP     |
| 4 NE North Port                          | 6.99 in | 0935 PM 06/13 | AWS      |
| Venice Gardens                           | 5.67 in | 0935 PM 06/13 | AWS      |
| 1 SE Fruitville                          | 5.52 in | 0935 PM 06/13 | AWS      |
| 2.0 E Warm Mineral Springs               | 5.45 in | 0915 PM 06/13 | HADS     |
| 4.3 N North Port                         | 5.35 in | 0900 PM 06/13 | HADS     |
| Sarasota                                 | 4.43 in | 0940 PM 06/13 | CWOP     |
| 2 SSW <a href="#">Ridge</a> Wood Heights | 3.90 in | 0936 PM 06/13 | AWS      |
| North Port 2.1 NNW                       | 3.39 in | 0700 PM 06/13 | COCORAHS |
| VENICE                                   | 3.04 in | 0936 PM 06/13 | CWOP     |

&&

Observations are collected from a variety of sources with varying equipment and exposures. We thank all volunteer weather observers for their dedication. Not all data listed are considered official.

\$\$

## Sarasota – June 11<sup>th</sup>, 2024

During the evening of June 11<sup>th</sup>, one storm in particular produced an estimated 8 to 10 inches of rainfall across northern Sarasota and southern Manatee County, causing Flash Flooding in Downtown Sarasota and St. Armands Circle.

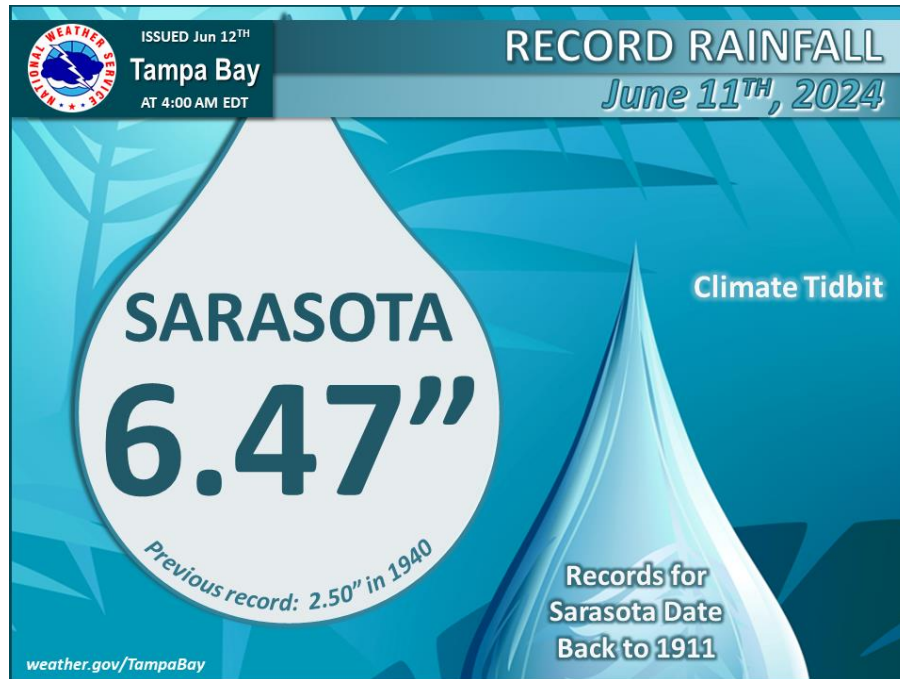
The image displays a Flash Flood Warning graphic on the left and social media posts on the right. The graphic includes the following information:

- Flash Flood Warning**
- Valid Until: 10:00 PM EDT Tuesday, June 11, 2024
- Safety Information:**
  - Move immediately to higher ground!
  - Avoid walking or driving through flood waters!
- Potential Exposure:**
  - Population: 312,661
  - Schools: 46
  - Hospitals: 5
- A map of Sarasota County, Florida, with a red shaded area indicating the flash flood warning zone. Labeled locations include Bayshore Gardens, Tallevast, Sarasota, Fruitville, Vamo, and Osprey.

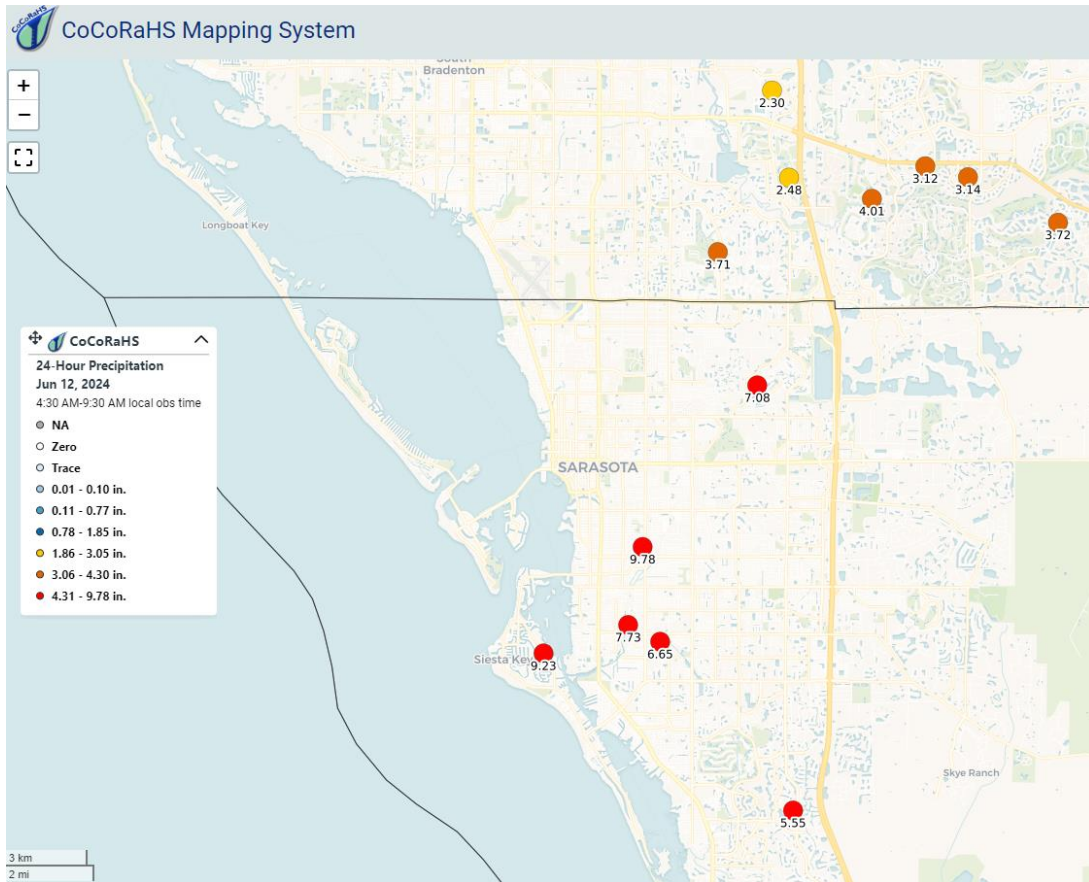
The social media posts on the right include:

- NWS Tampa Bay** (@NWS Tampa Bay) · Jun 11: Flash Flood Warning in effect through 10pm! Slow moving showers continue to impact Sarasota Co.!
- TURN AROUND DON'T DROWN!** #FLwx
- Jonathan Petramala** (@jpetramala) · Jun 11: Downtown Sarasota is on its way to being impassable. #flwx #rain #flashflood @NWS Tampa Bay
- A video showing a white car stuck in deep floodwaters on a city street at night.

At Sarasota-Bradenton Airport, a new all-time one-hour record rainfall total was set: 3.93 inches. The airport observed a total of 6.47 inches on June 11<sup>th</sup>, which is a new daily record that surpassed the previous record set in 1940. Records for Sarasota-Bradenton Airport date back to 1911.

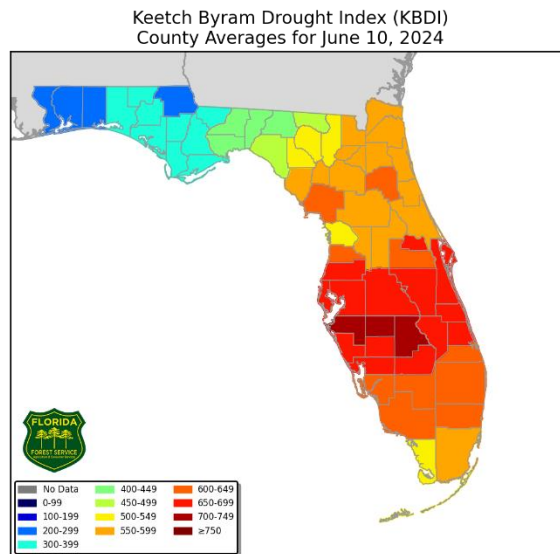


Observations from CoCoRaHS Observers helped meteorologists from NWS Tampa Bay better understand the spatial extent of the event post mortem. Additionally, these observations provide ground truth for radar estimates for rainfall across the region.

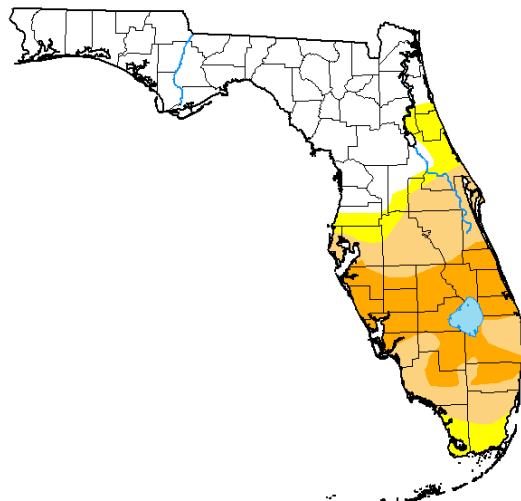


## The Silver Lining

Areas where the highest rainfall occurred were in moderate to severe drought prior to the event. This meant that soils were dry and the region needed rainfall.



**U.S. Drought Monitor  
Florida**



**June 4, 2024**  
(Released Thursday, Jun. 6, 2024)  
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

|   | None  | D0-D4 | D1-D4 | D2-D4 | D3-D4 | D4   |
|---|-------|-------|-------|-------|-------|------|
| Current                                 | 49.68 | 50.32 | 41.52 | 20.34 | 0.00  | 0.00 |
| Last Week<br>05-28-2024                 | 54.68 | 45.32 | 33.97 | 4.30  | 0.00  | 0.00 |
| 3 Months Ago<br>03-05-2024              | 96.72 | 3.28  | 0.00  | 0.00  | 0.00  | 0.00 |
| Start of<br>Calendar Year<br>01-01-2024 | 86.25 | 13.75 | 3.86  | 2.55  | 1.27  | 0.00 |
| Start of<br>Water Year<br>09-26-2023    | 69.09 | 30.91 | 17.59 | 9.00  | 0.81  | 0.00 |
| One Year Ago<br>06-06-2023              | 82.10 | 17.90 | 8.62  | 1.69  | 0.00  | 0.00 |

**Intensity:**  
 None (white)      D2 Severe Drought (orange)  
 D0 Abnormally Dry (yellow)      D3 Extreme Drought (red)  
 D1 Moderate Drought (light orange)      D4 Exceptional Drought (dark red)

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

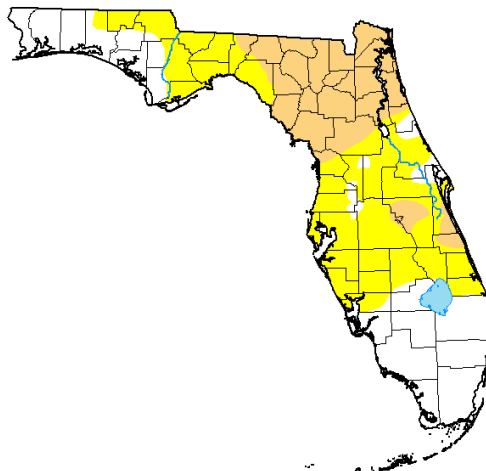
**Author:**  
Brad Pugh  
CPC/NOAA



[droughtmonitor.unl.edu](http://droughtmonitor.unl.edu)

While some locations – especially some coastal communities – received too much rain too fast, many locations received beneficial rainfall that led to improvements in drought conditions. Had this event occurred later in summer, the impacts could have been far more significant.

**U.S. Drought Monitor  
Florida**



**June 25, 2024**  
(Released Thursday, Jun. 27, 2024)  
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

|   | None  | D0-D4 | D1-D4 | D2-D4 | D3-D4 | D4   |
|---|-------|-------|-------|-------|-------|------|
| Current                                 | 34.04 | 65.96 | 25.13 | 0.00  | 0.00  | 0.00 |
| Last Week<br>06-18-2024                 | 45.20 | 54.80 | 2.74  | 0.39  | 0.00  | 0.00 |
| 3 Months Ago<br>03-26-2024              | 98.61 | 1.39  | 0.00  | 0.00  | 0.00  | 0.00 |
| Start of<br>Calendar Year<br>01-01-2024 | 86.25 | 13.75 | 3.86  | 2.55  | 1.27  | 0.00 |
| Start of<br>Water Year<br>09-26-2023    | 69.09 | 30.91 | 17.59 | 9.00  | 0.81  | 0.00 |
| One Year Ago<br>06-27-2023              | 93.84 | 6.16  | 0.00  | 0.00  | 0.00  | 0.00 |

**Intensity:**  
 None (white)      D2 Severe Drought (orange)  
 D0 Abnormally Dry (yellow)      D3 Extreme Drought (red)  
 D1 Moderate Drought (light orange)      D4 Exceptional Drought (dark red)

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

**Author:**  
Adam Hartman  
NOAA/NWS/NCEP/CPC



[droughtmonitor.unl.edu](http://droughtmonitor.unl.edu)