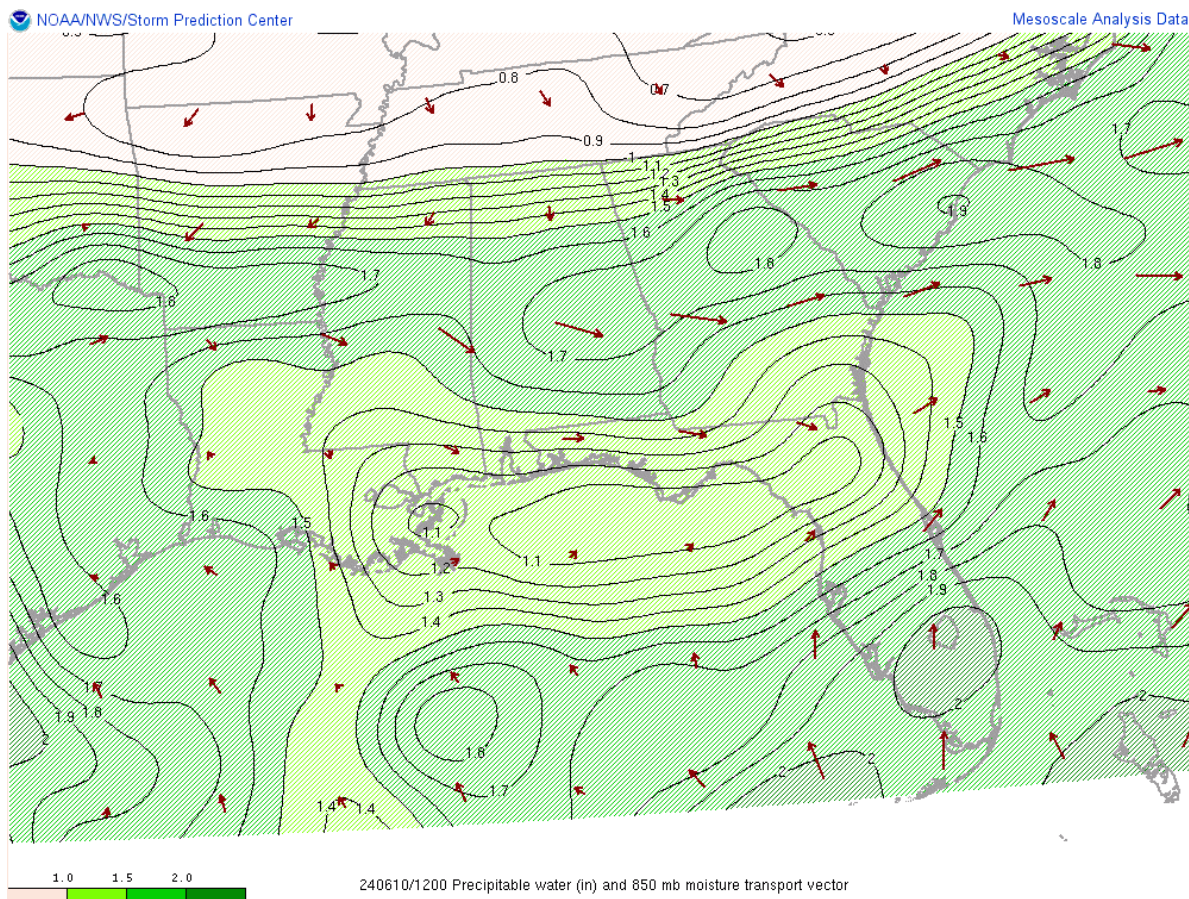


West Central and Southwest Florida Heavy Rainfall Event: June 10th - June 13th, 2024

As a tropical disturbance and surge of moisture lifted northward over portions of the Florida peninsula during the week of June 10th, 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.

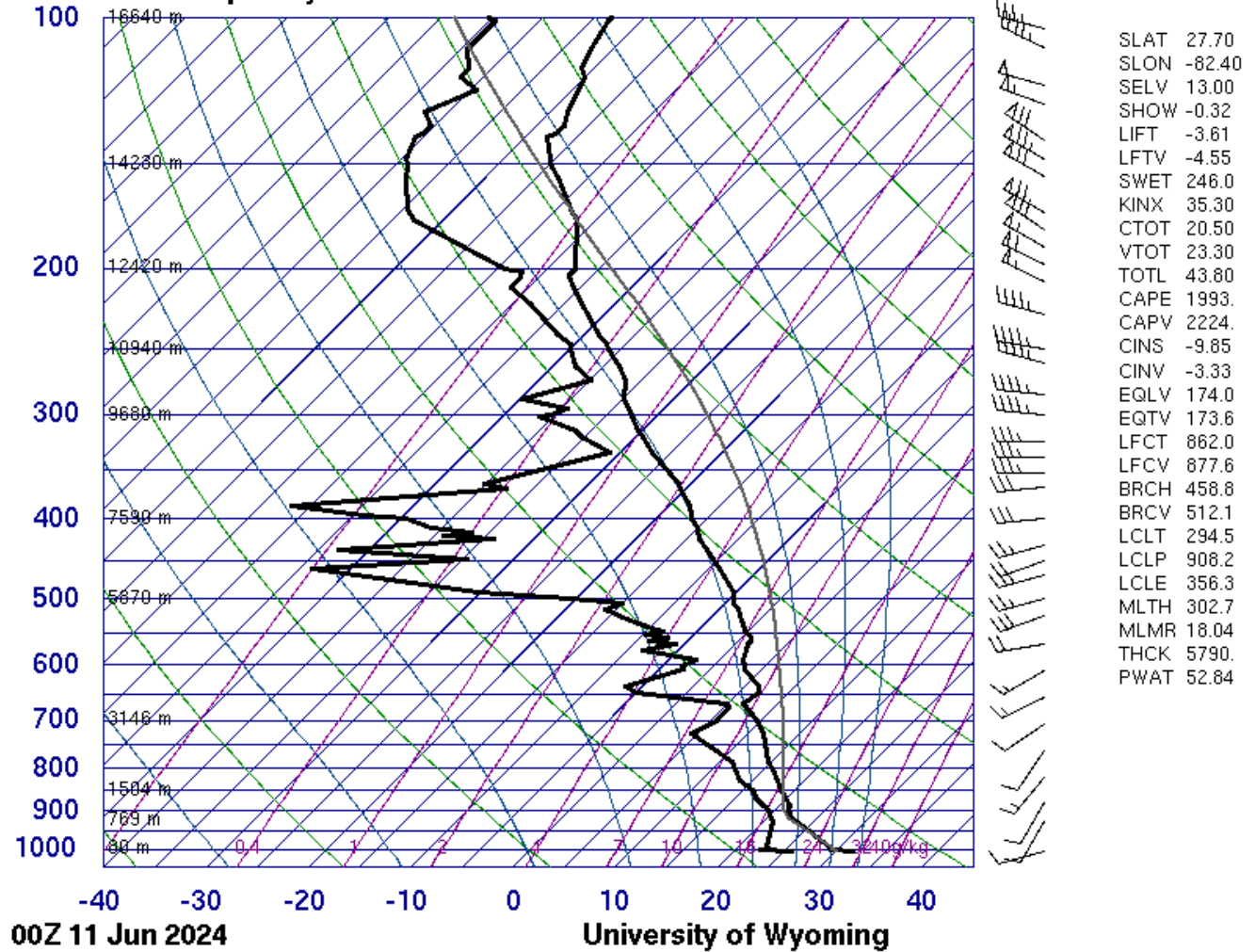
Overview

Beginning on the morning of June 10th, 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 10th, 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 90th percentile for the day. This meant that the amount of moisture available in the atmosphere was exceptionally rare for this date.

Jun 10 (00Z)				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	

00Z Soundings for TBW

Data Readout [Unlock Data](#)

Jun 10 (00Z)											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					

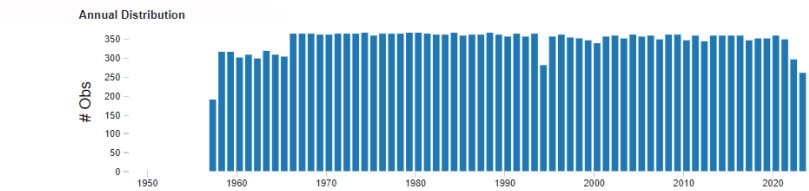
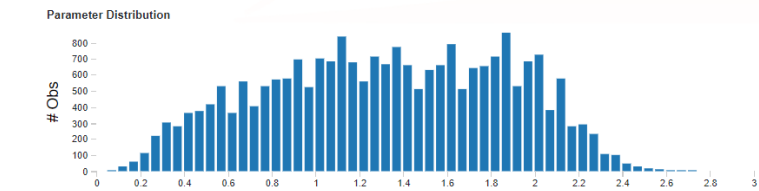
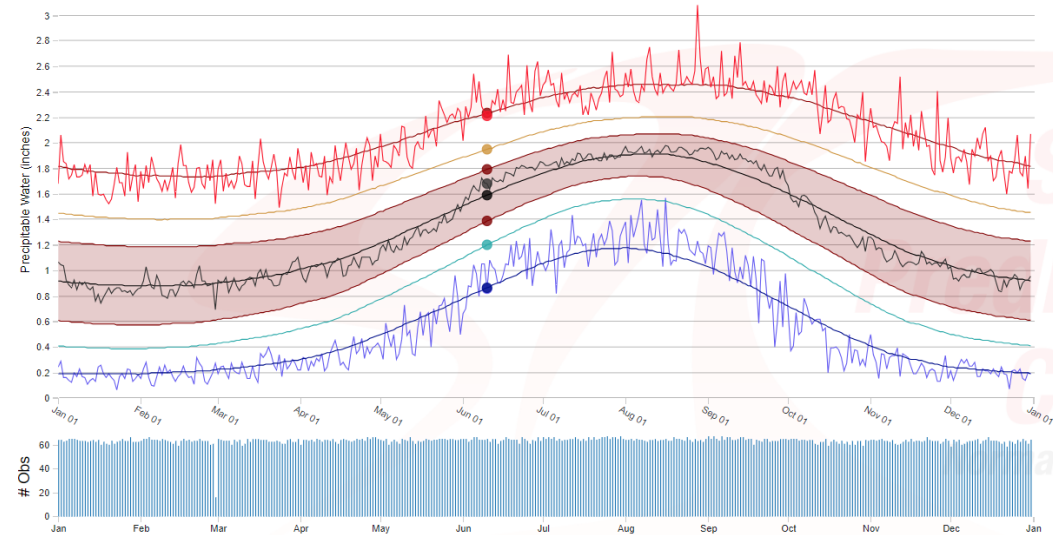
Latest 00z pw data: 2.21 in
No data for 12z pw

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 11th, 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		

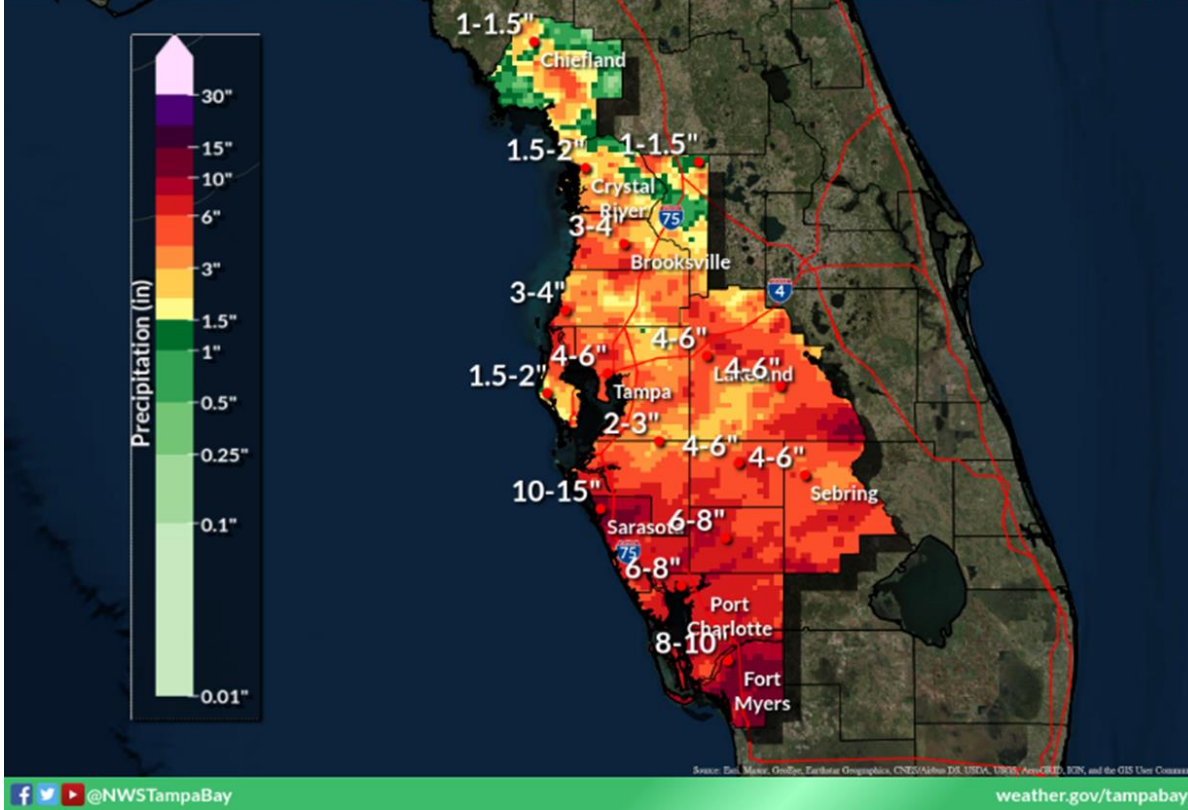
In response, significant heavy rainfall occurred across the region beginning on the 10th and continuing through the 13th. Rainfall totals across Central and Southwest Florida averaged anywhere from 4 to 10 inches, with some locations seeing even higher totals, notably in southern Lee County, northern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

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

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



ISSUED Jun 13TH 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

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35

6.9K





[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
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...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	ASOS
Port Charlotte	5.09 in	0940 PM 06/13	CWOP
Grove City	3.67 in	0935 PM 06/13	AWS
...Highlands County...			
ARCHBOLD BIO STN SEBRING 23	7.28 in	0910 PM 06/13	HADS
...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 Creek	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	ASOS
2 NE Quail Creek Estate	12.62 in	0935 PM 06/13	AWS

1 S Whiskey Creek	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	ASOS
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 Nwr	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 Creek Estate	7.96 in	0935 PM	06/13	AWS
6 NNW Cape 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 Cape 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
Cape 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	ASOS
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 Ridge 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.

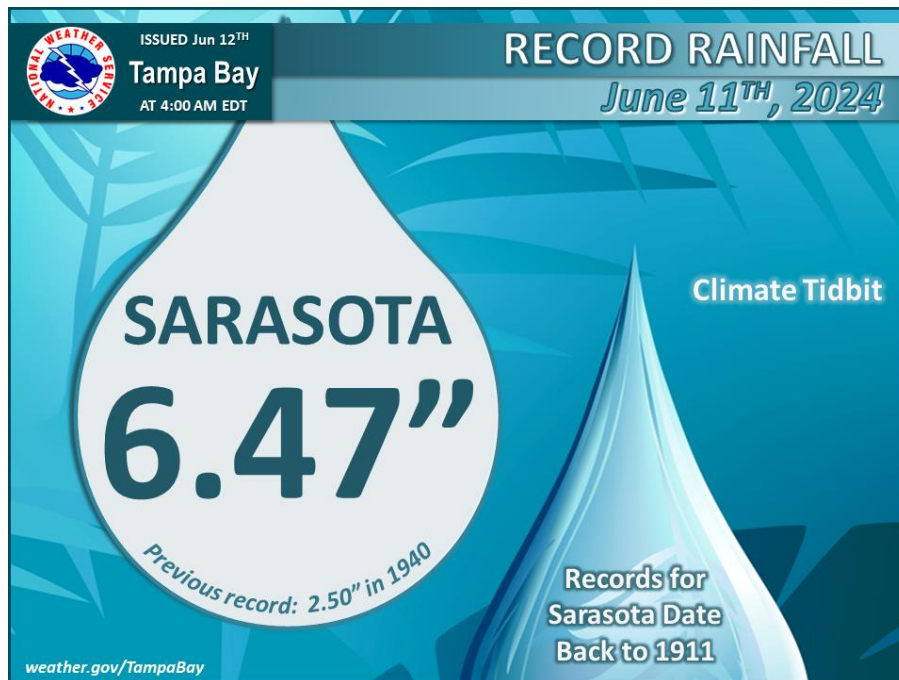
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Sarasota – June 11th, 2024

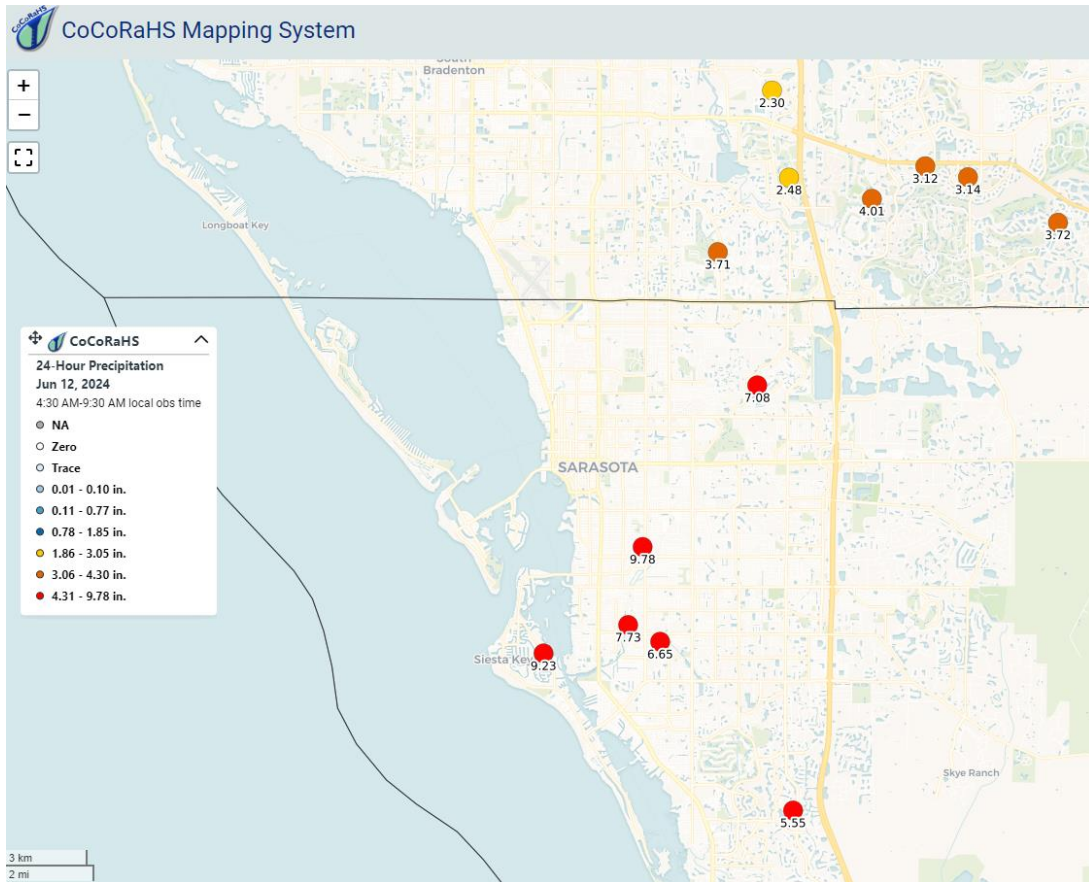
During the evening of June 11th, one storm in particular produced an estimated 8 to 10 inches of rainfall across northern Sarasota and southern Manatee County, causing Flash Flooding in Downtown Sarasota and St. Armands Circle.



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 11th, which is a new daily record that surpassed the previous record set in 1940. Records for Sarasota-Bradenton Airport date back to 1911.

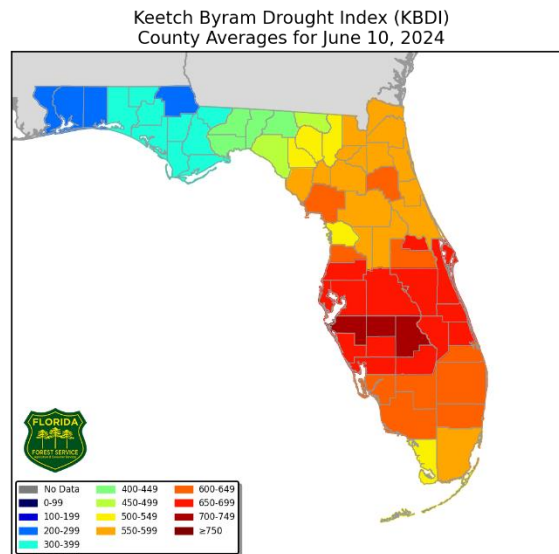


Observations from CoCoRaHS Observers helped meteorologists from NWS Tampa Bay better understand the spatial extent of the event post mortem. Additionally, these observations provide ground truth for radar estimates for rainfall across the region.

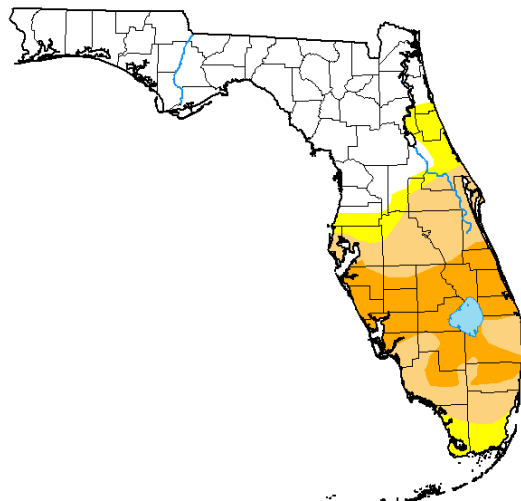


The Silver Lining

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 05-28-2024	54.68	45.32	33.97	4.30	0.00	0.00
3 Months Ago 03-05-2024	96.72	3.28	0.00	0.00	0.00	0.00
Start of Calendar Year 01-01-2024	86.25	13.75	3.86	2.55	1.27	0.00
Start of Water Year 09-26-2023	69.09	30.91	17.59	9.00	0.81	0.00
One Year Ago 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>

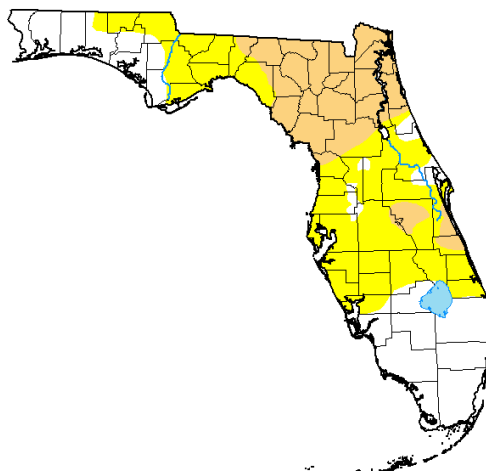
Author:
Brad Pugh
CPC/NOAA



droughtmonitor.unl.edu

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 06-18-2024	45.20	54.80	2.74	0.39	0.00	0.00
3 Months Ago 03-26-2024	98.61	1.39	0.00	0.00	0.00	0.00
Start of Calendar Year 01-01-2024	86.25	13.75	3.86	2.55	1.27	0.00
Start of Water Year 09-26-2023	69.09	30.91	17.59	9.00	0.81	0.00
One Year Ago 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