

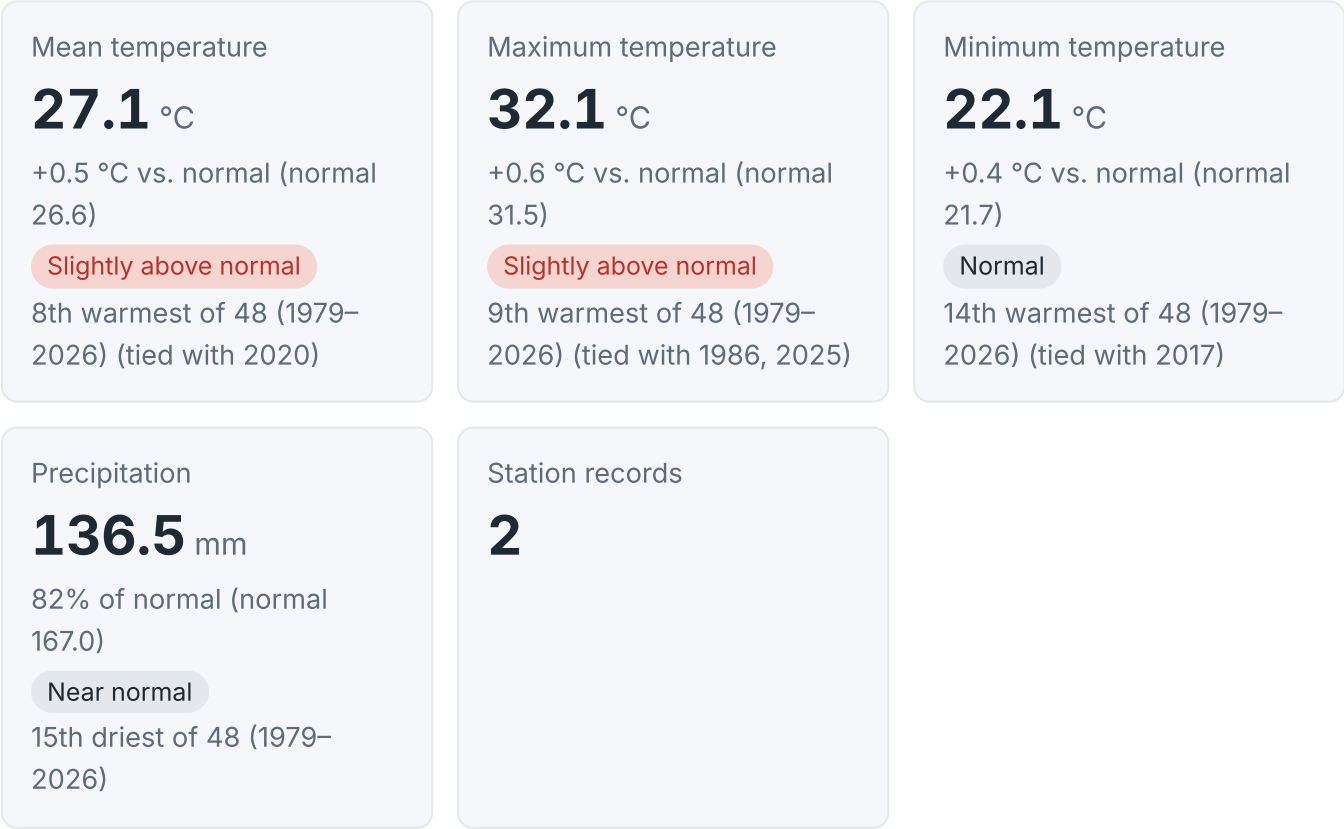
September 2026

Final Issued 2026-10-21 · Baseline 1991-2020 · next update 2026-11-10

1 Key messages and climate synopsis

- Statewide mean temperature of 27.1 °C (+0.5 °C relative to 1991–2020): the 8th warmest September in the 1979–2026 series (tied with 2020).
- Statewide precipitation of 136.5 mm, 82% of normal: the 15th driest September in the 1979–2026 series.
- The highest maximum temperature at GHCN stations was 37.2 °C at Bahia Honda Sp on 5 September.
- The largest 24-hour rainfall at GHCN stations was 149.9 mm at S Bay 15 S on 3 September.
- 2 station records were broken (stations with at least 20 years of data).
- Statewide heat waves: 0; cold waves: 1.
- U.S. Drought Monitor: 52% of the state in drought (D1–D4) on 29 September 2026 (–15 points since 25 August 2026).
- El Niño conditions of very strong intensity in the equatorial Pacific (ONI JAS 2026: +2.2 °C).

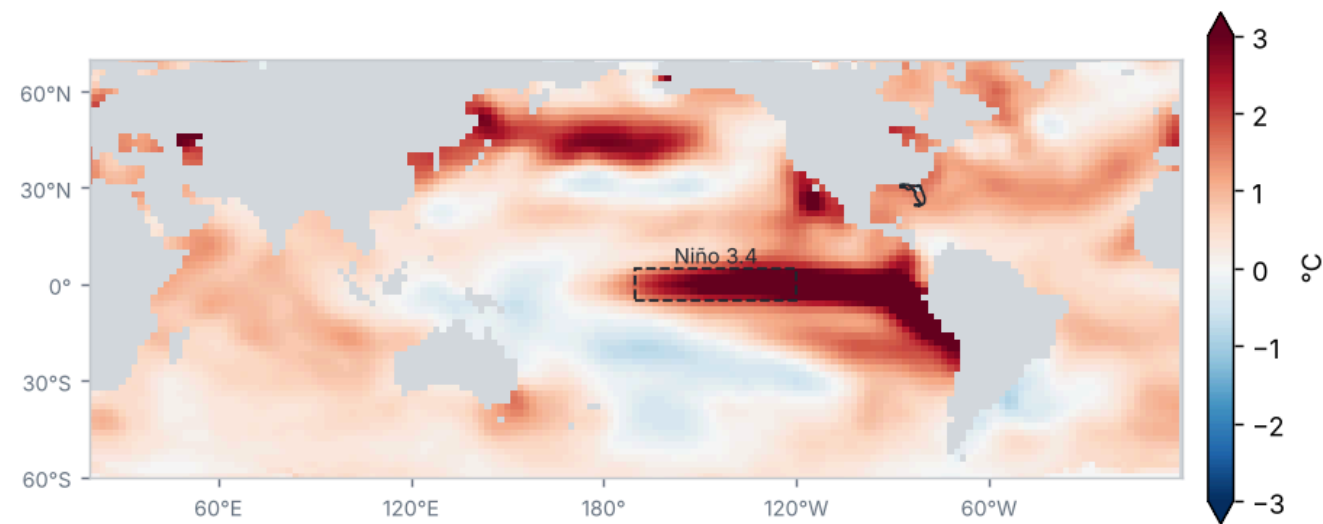
Source: NOAA NCEI



Source: NOAA NCEI

2 Global and regional climate drivers

Sea-surface temperature anomaly, September 2026 (°C, 1991–2020)



Source: NOAA NCEI / PSL

Sea-surface temperature anomaly in the Niño regions (°C)

Region	Anomaly (°C)	Change from preceding period (°C)
Niño 1+2	4.7	0.6
Niño 3	3.6	0.5
Niño 3.4	2.8	0.3
Niño 4	0.9	0.0

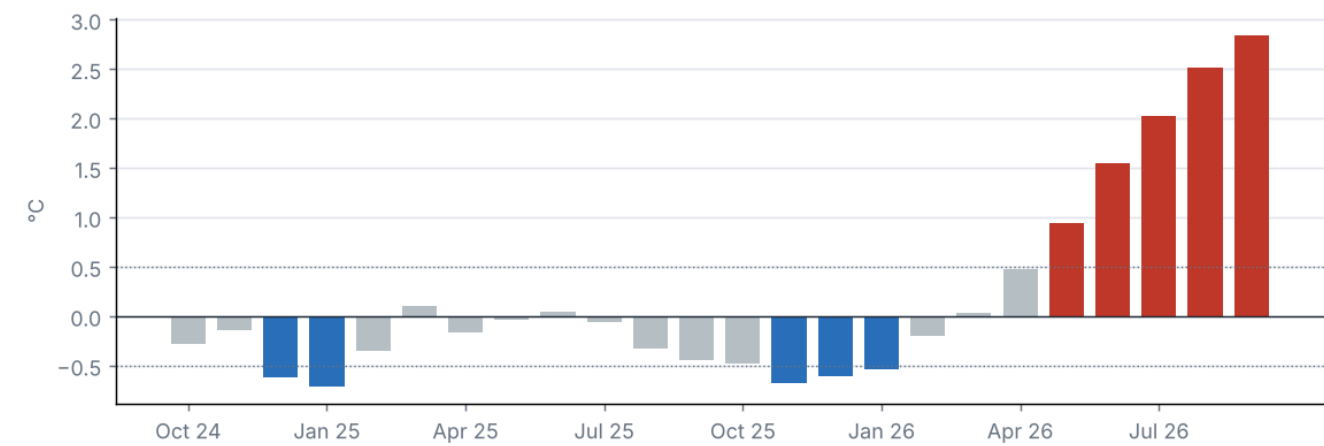
Mean of the months in the period (OISST v2.1)

Source: NOAA CPC

El Niño conditions of very strong intensity: the Oceanic Niño Index (ONI) for JAS 2026 was +2.2 °C.

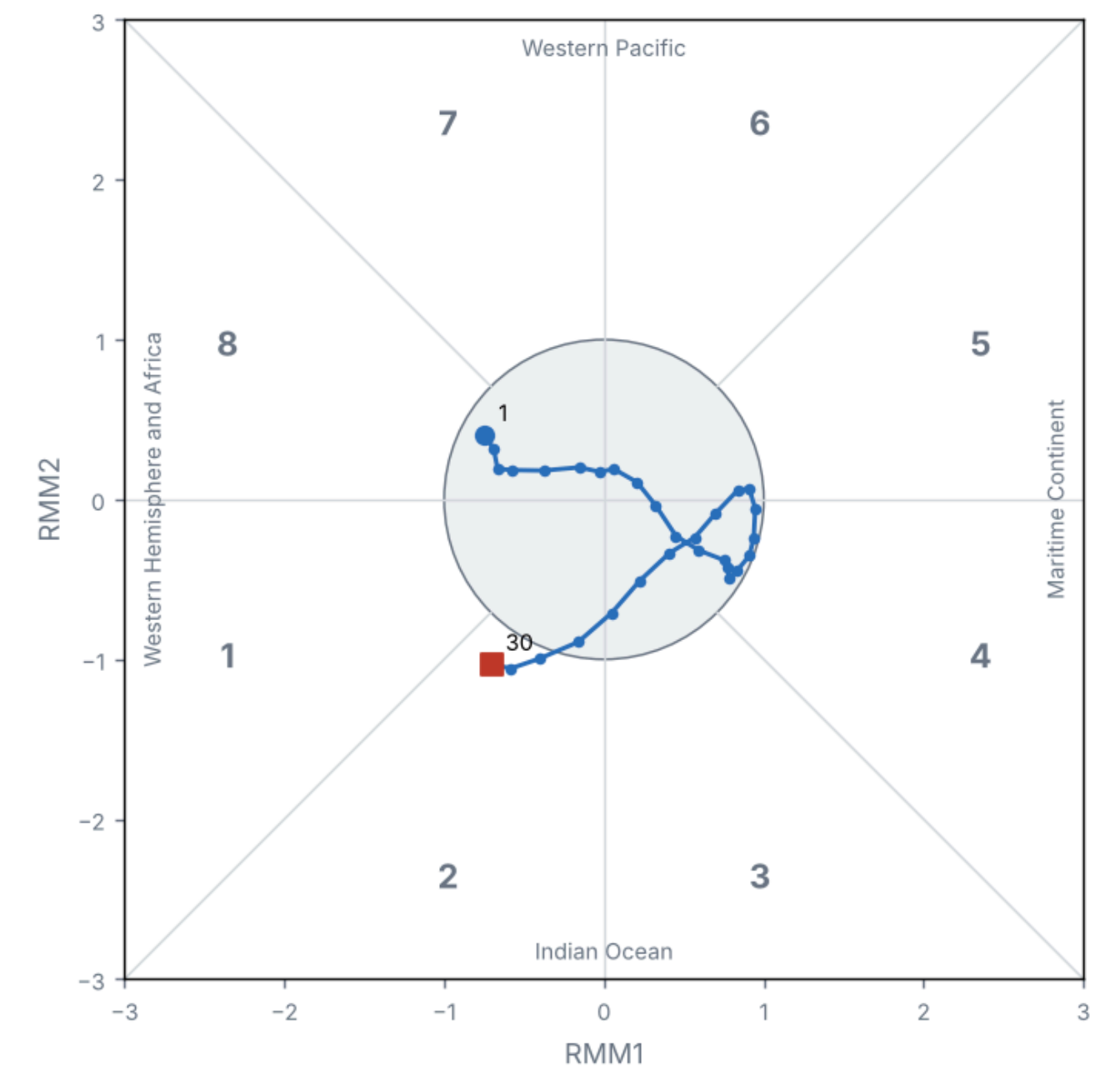
Source: NOAA CPC

Monthly Niño 3.4 anomaly, last 24 months (°C)



Source: NOAA CPC

MJO phase diagram (real-time OMI)



Source: NOAA PSL

Teleconnection indices

Index	Value	Phase
NAO	0.5	Positive
AO	1.2	Positive
PDO	-1.6	Negative

North Atlantic Oscillation (NAO); Arctic Oscillation (AO); Pacific Decadal Oscillation (PDO).

Source: NOAA CPC, NOAA NCEI

The Niño 3.4 anomaly was +2.84 °C (+0.32 °C relative to the preceding period).

The MJO was active on 3 of 30 days, most often in phase 2 (Indian Ocean); mean amplitude 0.7.

Other indices: NAO +0.53 (positive phase); AO +1.16 (positive phase); PDO -1.55 (negative phase).

3 Precipitation

Statewide precipitation

136.5 mm

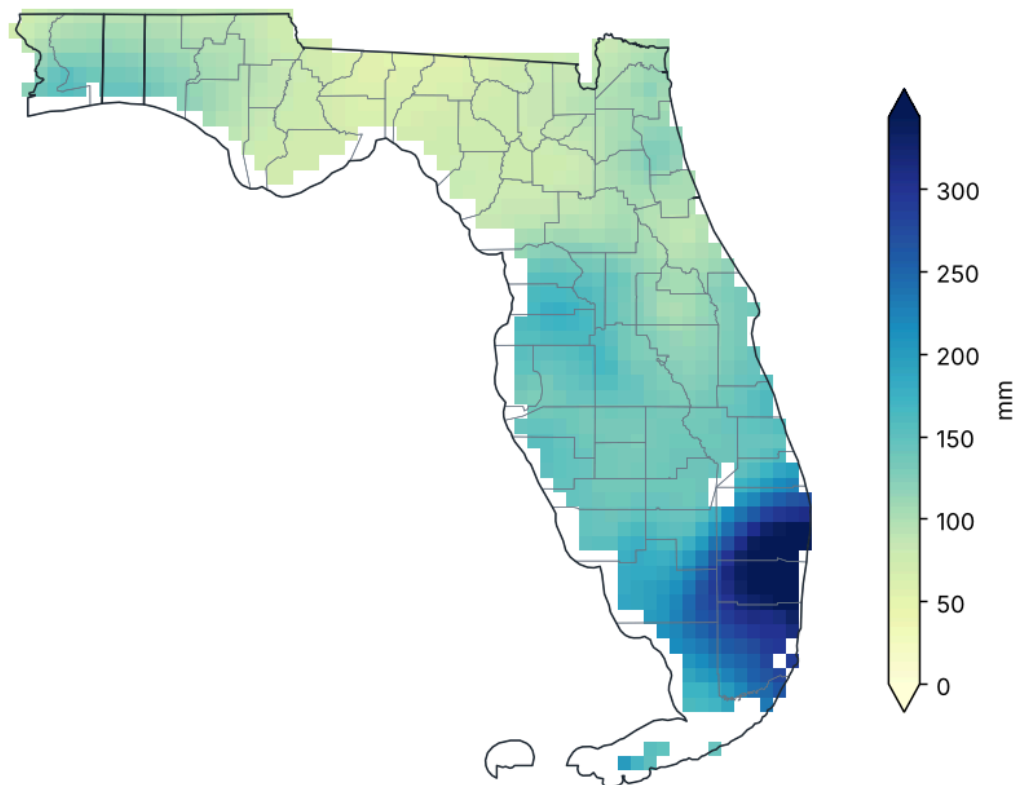
82% of normal (normal
167.0)

Near normal

15th driest of 48 (1979–
2026)

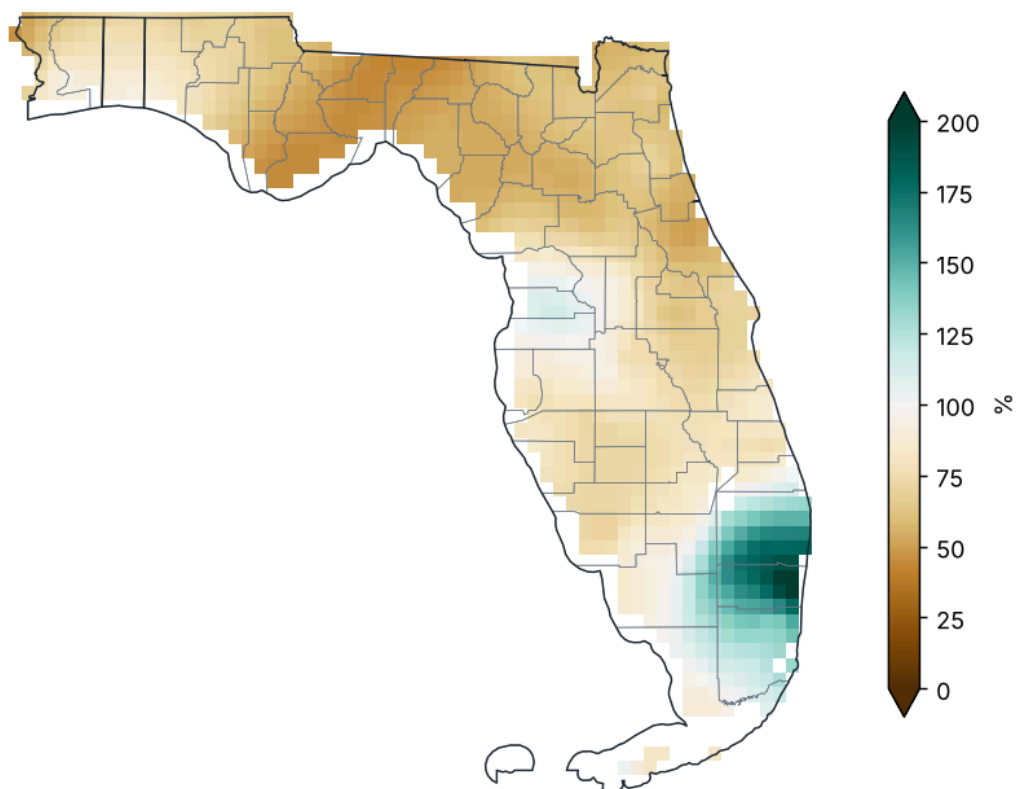
Source: NOAA NCEI

Accumulated precipitation



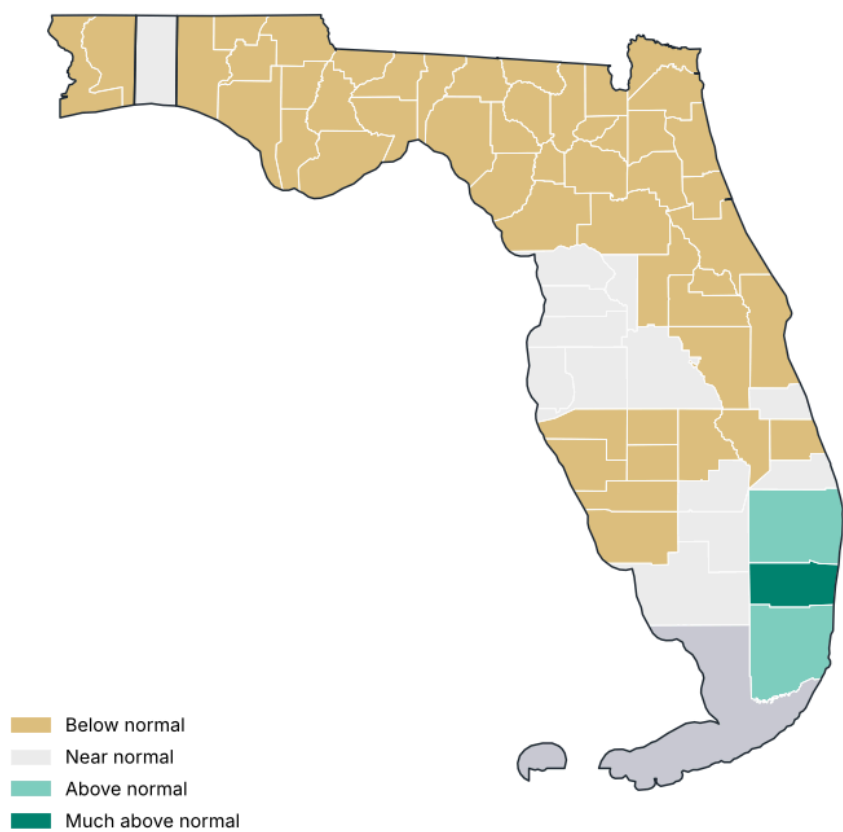
Source: NOAA NCEI

Percent of normal precipitation (1991–2020)



Source: NOAA NCEI

Percent of normal by county



Source: NOAA NCEI

Precipitation by region

Region	Total (mm)	Normal (mm)	Difference (%)	Category
Northwest	91.6	144.3	-36.5	Below normal
North	87.2	149.6	-41.7	Below normal
North Central	123.1	160.7	-23.4	Below normal
South Central	138.1	177.9	-22.4	Below normal
South Florida	228.0	197.1	15.7	Near normal

Source: NOAA NCEI

Stations with the largest precipitation excess

Region	County	Station	Altitude (m)	Anomaly (%)
South Florida	Broward	Ft Lauderdale Executive AP	4.0	171.1
South Florida	Broward	Ft Lauderdale Intl AP	1.0	162.8
South Florida	Broward	Ft Lauderdale	5.0	118.2
South Florida	Broward	Ft Lauderdale Beach	1.0	113.5
South Florida	Broward	Hollywood N Perry AP	2.0	107.2
South Florida	Broward	Pompano Beach Airpark	5.0	83.8
South Florida	Miami-Dade	Miami Beach	2.0	81.7
South Florida	Miami-Dade	Hialeah	4.0	65.5
South Florida	Miami-Dade	Cape Florida	2.0	59.7
North	Baker	Glen St Mary 1 W	39.0	51.4

Source: NOAA NCEI

Stations with the largest precipitation deficit

Region	County	Station	Altitude (m)	Anomaly (%)
North	Alachua	Gainesville Rgnl AP	40.0	-81.5
Northwest	Okaloosa	Niceville	23.0	-71.2
North Central	Volusia	Daytona Beach Intl AP	8.0	-70.7
North	Duval	Jacksonville Beach	3.0	-61.2
North Central	Orange	Orlando Intl AP	27.0	-59.5
Northwest	Franklin	Apalachicola AP	6.0	-58.5
Northwest	Franklin	Apalachicola AP	6.0	-57.8
South Florida	Lee	Ft Myers Page Fld AP	4.0	-57.6
Northwest	Leon	Tallahassee	54.0	-57.5
South Central	Polk	Winter Haven Gilbert AP	44.0	-49.3

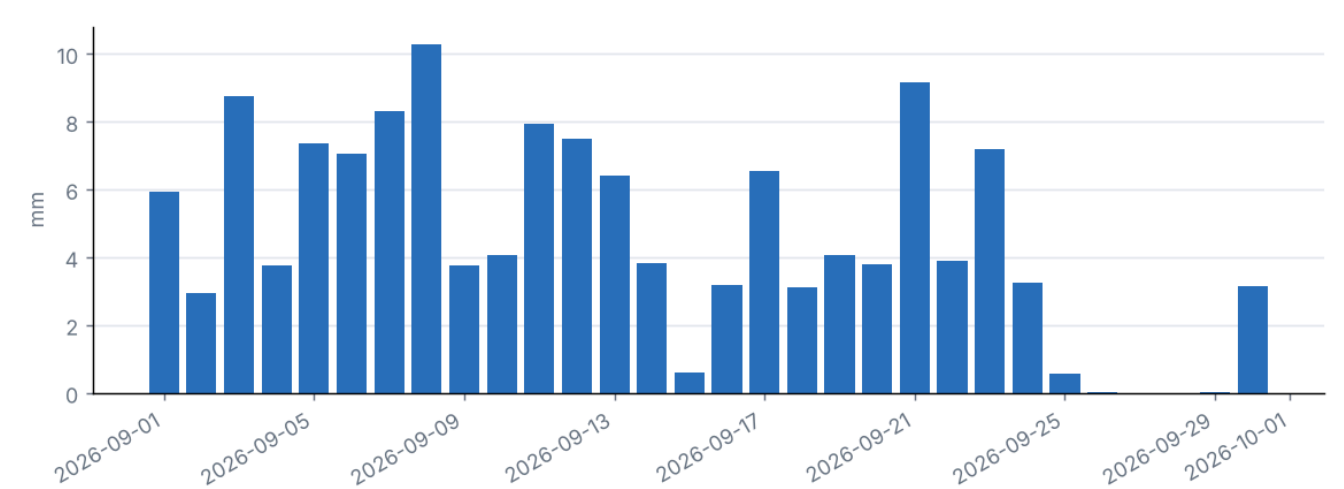
Source: NOAA NCEI

Largest 24-hour rainfall at stations

Station	County	Max 24 h rainfall (mm)	Date
S Bay 15 S	Palm Beach	149.9	2026-09-03
Ft Lauderdale Beach	Broward	94.0	2026-09-18
Mayo	Lafayette	84.1	2026-09-07
Miami Beach	Miami-Dade	81.3	2026-09-23
W Palm Beach Intl AP	Palm Beach	79.5	2026-09-17
Brooksville Hernando Co AP	Hernando	79.0	2026-09-09
Curry Hammock Sp	Monroe	76.2	2026-09-24
Nw Florida Beaches Intl AP	Bay	75.9	2026-09-11
Ft Lauderdale	Broward	75.7	2026-09-23
Lisbon	Lake	69.9	2026-09-08

Source: NOAA NCEI

Daily statewide mean precipitation



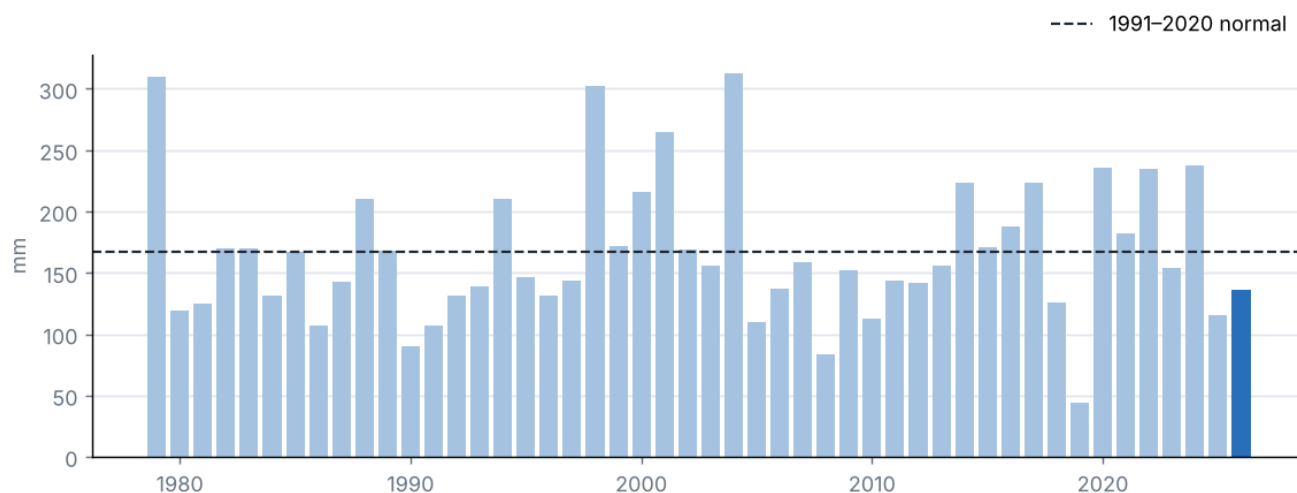
Source: NOAA NCEI

Daily statewide mean and grid-cell maximum

Day	Statewide mean (mm)	Grid maximum (mm)	County
2026-09-01	5.9	23.8	Broward
2026-09-02	3.0	14.2	Broward
2026-09-03	8.8	49.5	Palm Beach
2026-09-04	3.8	13.9	Santa Rosa
2026-09-05	7.4	27.8	Washington
2026-09-06	7.1	30.6	Palm Beach
2026-09-07	8.3	27.9	Suwannee
2026-09-08	10.3	26.7	Hernando
2026-09-09	3.8	15.1	Highlands
2026-09-10	4.1	15.3	Hernando
2026-09-11	7.9	26.7	Escambia
2026-09-12	7.5	42.8	Escambia
2026-09-13	6.4	15.3	Walton
2026-09-14	3.8	11.5	Palm Beach
2026-09-15	0.6	4.9	Hardee
2026-09-16	3.2	16.3	Collier
2026-09-17	6.5	35.0	Broward
2026-09-18	3.1	42.5	Palm Beach
2026-09-19	4.1	43.8	Broward
2026-09-20	3.8	16.0	Pinellas
2026-09-21	9.2	32.9	Palm Beach
2026-09-22	3.9	11.9	Palm Beach
2026-09-23	7.2	48.5	Broward
2026-09-24	3.3	15.9	Monroe
2026-09-25	0.6	5.2	Brevard
2026-09-26	0.0	3.2	Monroe
2026-09-27	0.0	0.3	Monroe
2026-09-28	0.0	0.0	Escambia
2026-09-29	0.0	2.7	Collier
2026-09-30	3.1	53.0	Monroe

Source: NOAA NCEI

Statewide precipitation in September of each year



Source: NOAA NCEI

Statewide accumulated precipitation was 136.5 mm, 82% of the 1991–2020 average (167.0 mm), category “Near normal”. It was the 15th driest September in the 1979–2026 series.

The region with the highest percentage of normal was South Florida (116%) and the lowest was North (58%).

The largest daily grid-cell total was estimated on 30 September in Monroe (53.0 mm).

Source: NOAA NCEI

4 Temperature

Mean temperature

27.1 °C

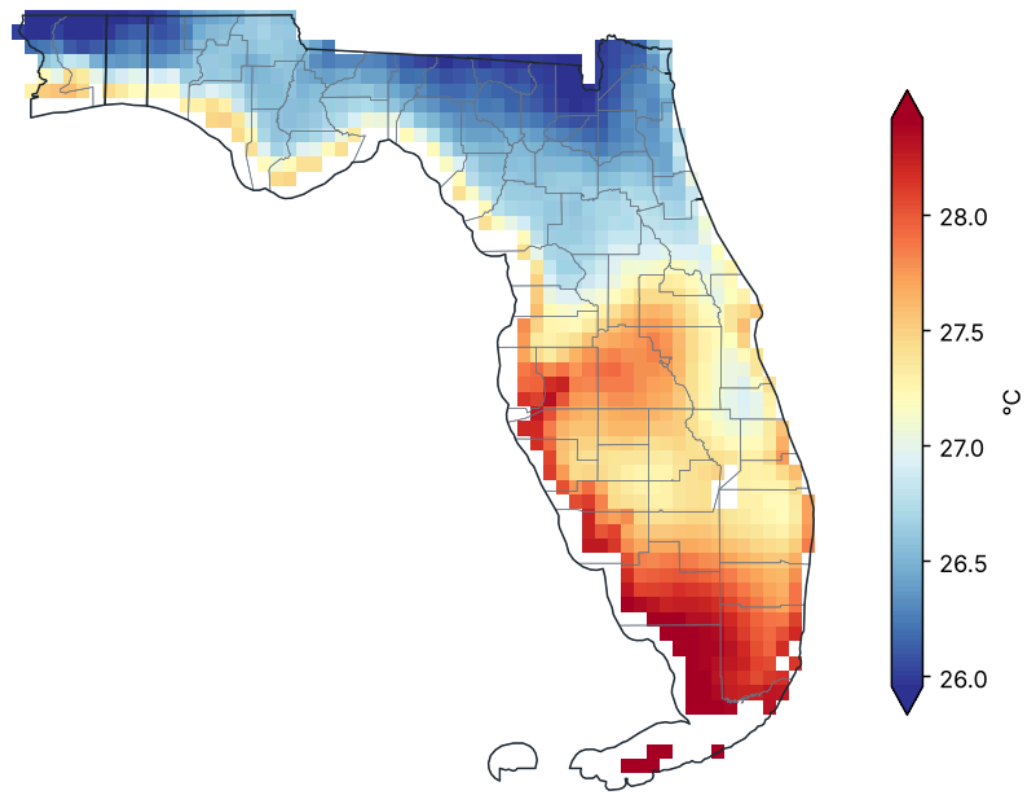
+0.5 °C vs. normal (normal 26.6)

Slightly above normal

8th warmest of 48 (1979–2026) (tied with 2020)

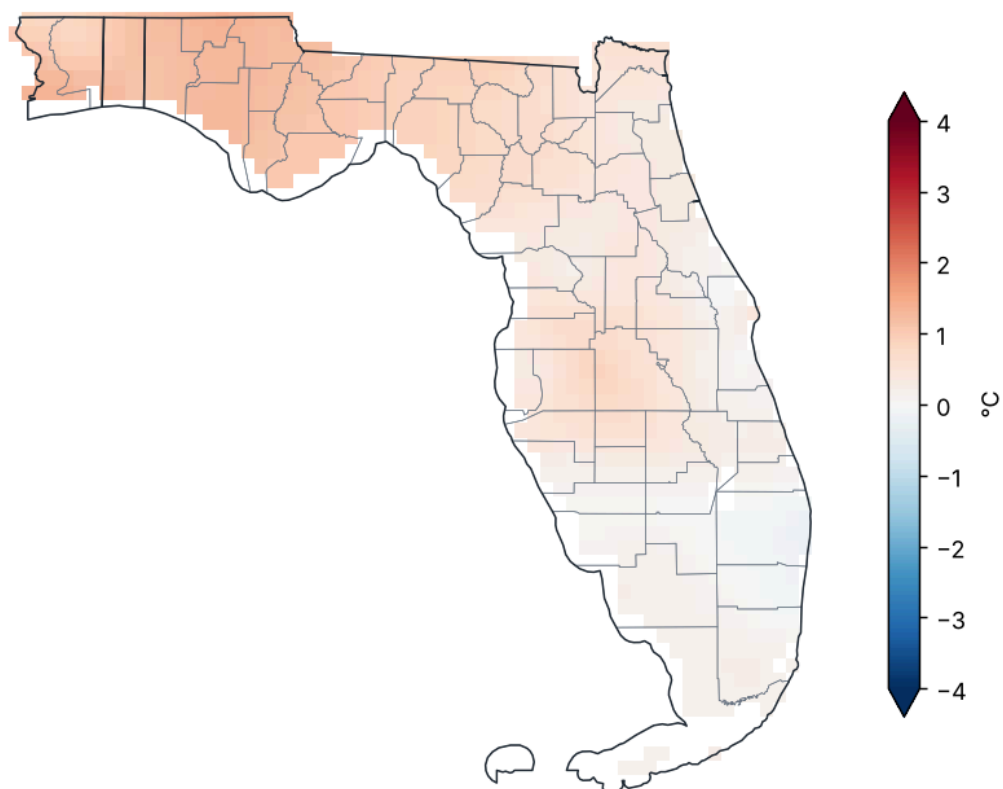
Source: NOAA NCEI

Mean temperature



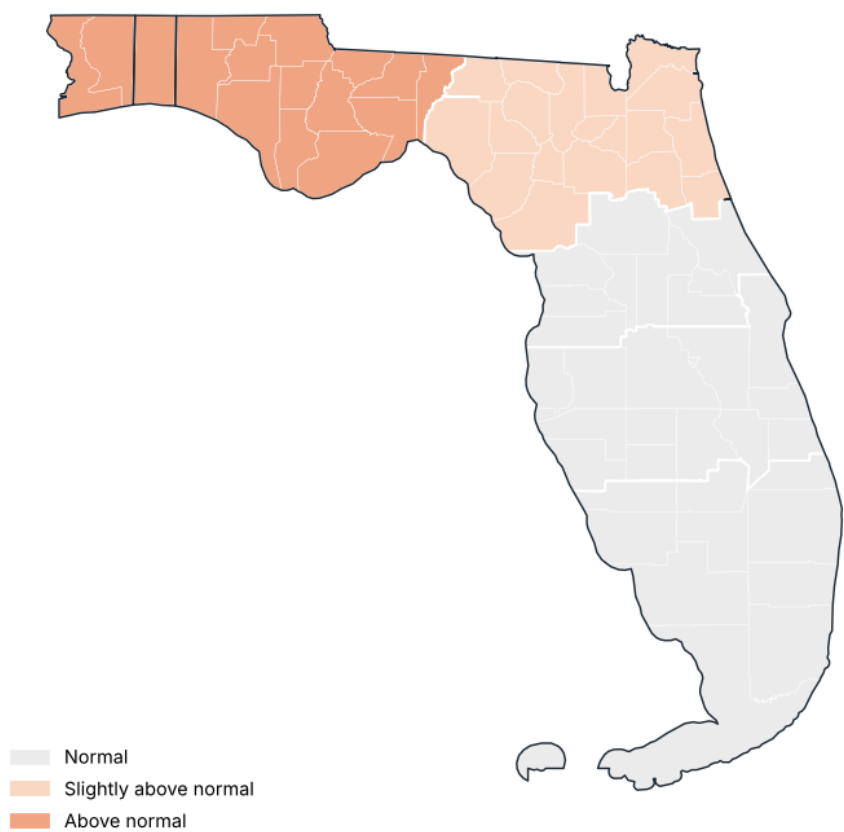
Source: NOAA NCEI

Mean temperature anomaly (1991–2020)



Source: NOAA NCEI

Mean temperature anomaly by region



Source: NOAA NCEI

Stations with the largest positive anomaly

Region	County	Station	Altitude (m)	Anomaly (°C)
South Florida	Broward	Ft Lauderdale Beach	1.0	2.2
Northwest	Okaloosa	Niceville	23.0	1.8
Northwest	Washington	Chipley	40.0	1.6
North Central	Lake	Clermont 9 S	40.0	1.3
Northwest	Okaloosa	Crestview Faa/AP	47.0	1.1
Northwest	Escambia	Pensacola Rgnl AP	36.0	1.1
Northwest	Okaloosa	Destin Ft Walton Beach AP	6.0	0.9
Northwest	Leon	Tallahassee	54.0	0.9
Northwest	Jackson	Marianna Muni AP	33.0	0.9
North	Levy	Usher Twr	10.0	0.9

Source: NOAA NCEI

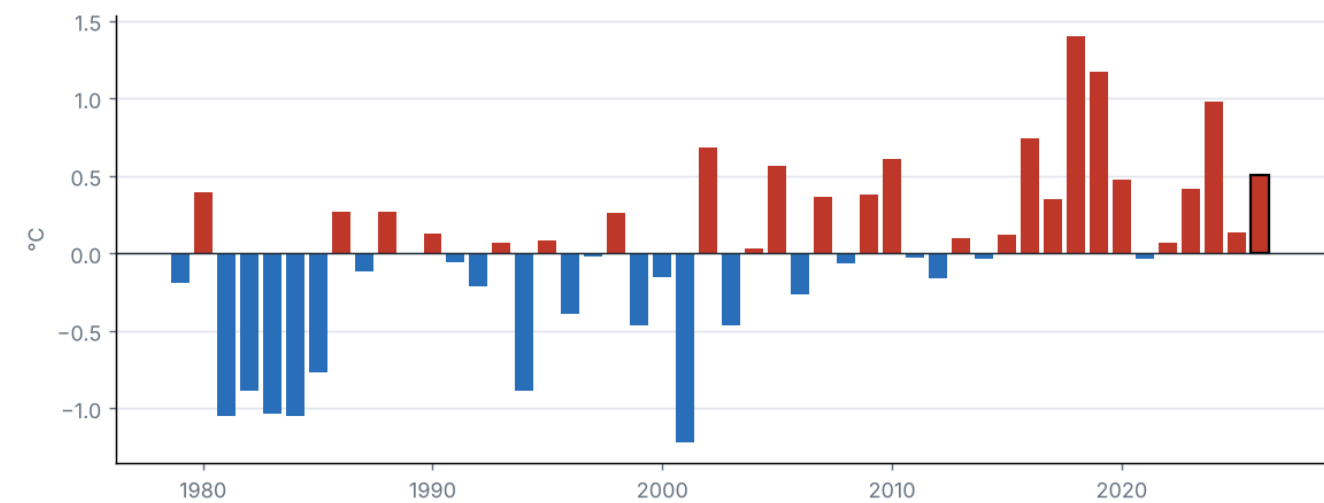
Stations with the largest negative anomaly

Region	County	Station	Altitude (m)	Anomaly (°C)
South Florida	Broward	Ft Lauderdale Intl AP	1.0	-0.6
South Florida	Broward	Hollywood N Perry AP	2.0	-0.6
North	St. Johns	Hastings 4NE	3.0	-0.4
South Florida	Broward	Ft Lauderdale Executive AP	4.0	-0.4
South Florida	Glades	Moore Haven Lock 1	11.0	-0.4

Region	County	Station	Altitude (m)	Anomaly (°C)
South Florida	Broward	Pompano Beach Airpark	5.0	-0.4
South Central	Brevard	Melbourne Intl AP	7.0	-0.3
South Florida	Miami-Dade	Miami Opa Locka AP	1.0	-0.3
South Central	Brevard	Melbourne Wfo	11.0	-0.3
South Florida	Palm Beach	W Palm Beach Intl AP	4.0	-0.2

Source: NOAA NCEI

Statewide mean temperature anomaly in September of each year



Source: NOAA NCEI

The statewide mean temperature was 27.1 °C, 0.5 °C above the 1991–2020 average (26.6 °C), category “Slightly above normal”. It was the 8th warmest September in the 1979–2026 series (tied with 2020).

By region, the largest anomaly was in Northwest (+1.1 °C) and the smallest in South Florida (+0.1 °C).

Source: NOAA NCEI

Maximum temperature

32.1 °C

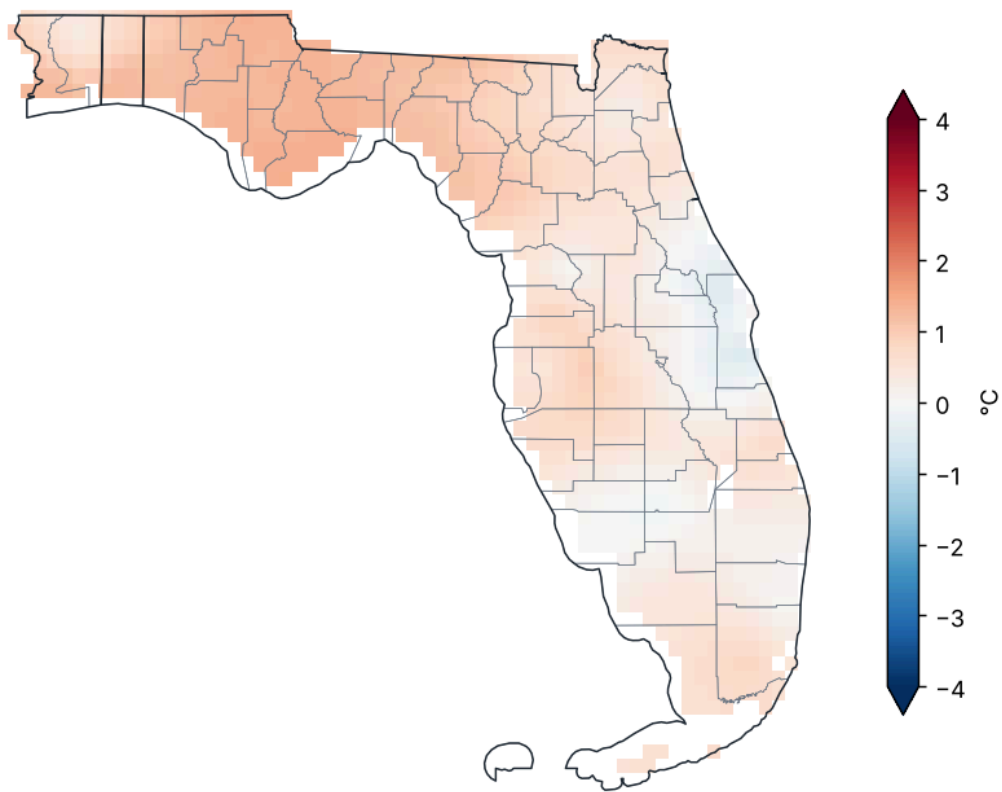
+0.6 °C vs. normal (normal 31.5)

Slightly above normal

9th warmest of 48 (1979–2026) (tied with 1986, 2025)

Source: NOAA NCEI

Maximum temperature anomaly (1991–2020)



Source: NOAA NCEI

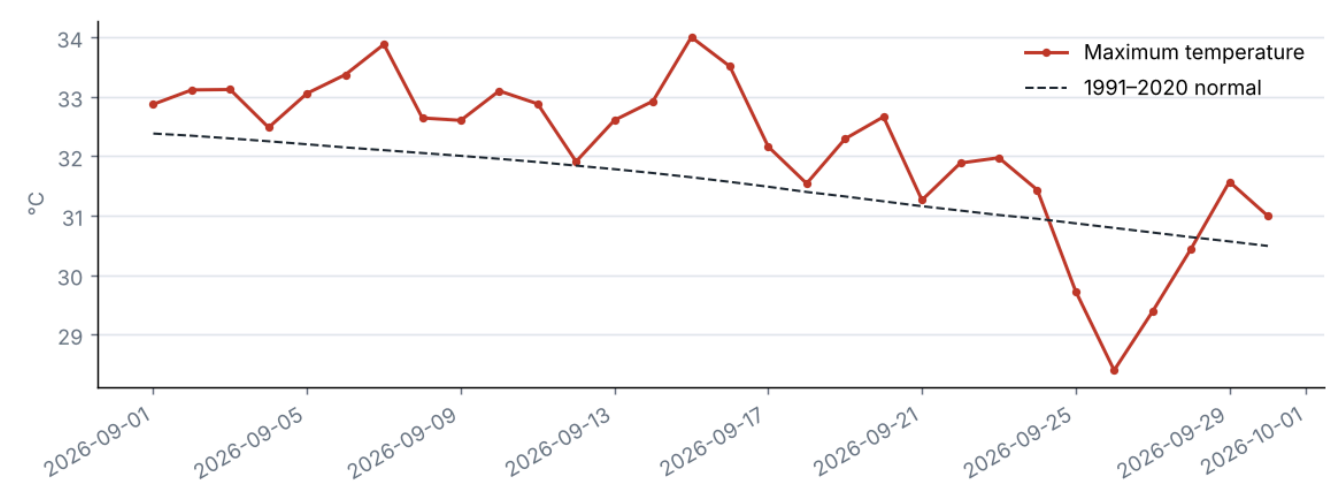
Lowest and highest monthly mean maximum temperature by region

Region	Lowest value (°C)	Station	Highest value (°C)	Station
Northwest	31.0	Apalachicola AP	33.4	Tallahassee AP
North	29.9	Jacksonville Beach	31.8	Usher Twr
North Central	29.4	Daytona Beach	33.7	Clermont 9 S
South Central	30.3	Titusville	34.5	Ft Green 12 WSW
South Florida	30.6	Palm Beach Gardens	34.0	Ft Lauderdale Beach

Station monthly means (GHCN-Daily, $\geq 80\%$ of days with data).

Source: NOAA NCEI

Daily statewide maximum temperature



Source: NOAA NCEI

The statewide maximum temperature was 32.1 °C, 0.6 °C above the 1991–2020 average (31.5 °C), category “Slightly above normal”. It was the 9th warmest September in the 1979–2026 series (tied with 1986, 2025).

By region, the largest anomaly was in Northwest (+1.2 °C) and the smallest in South Florida (+0.3 °C).

Source: NOAA NCEI

Minimum temperature

22.1 °C

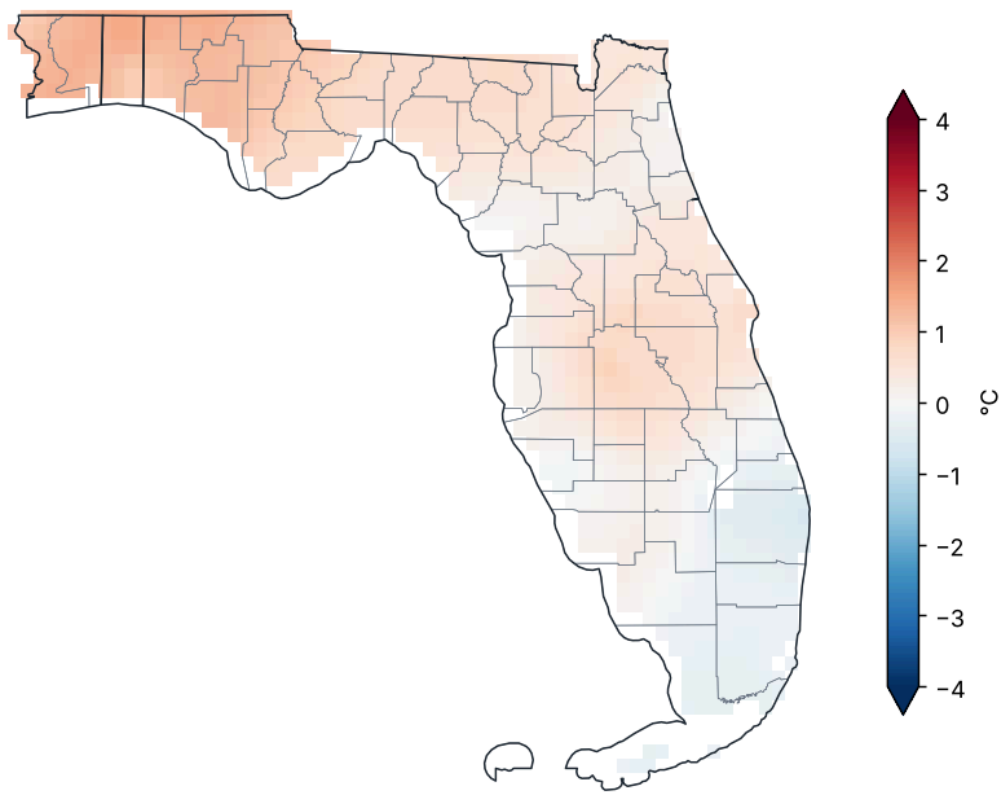
+0.4 °C vs. normal (normal 21.7)

Normal

14th warmest of 48 (1979–2026) (tied with 2017)

Source: NOAA NCEI

Minimum temperature anomaly (1991–2020)



Source: NOAA NCEI

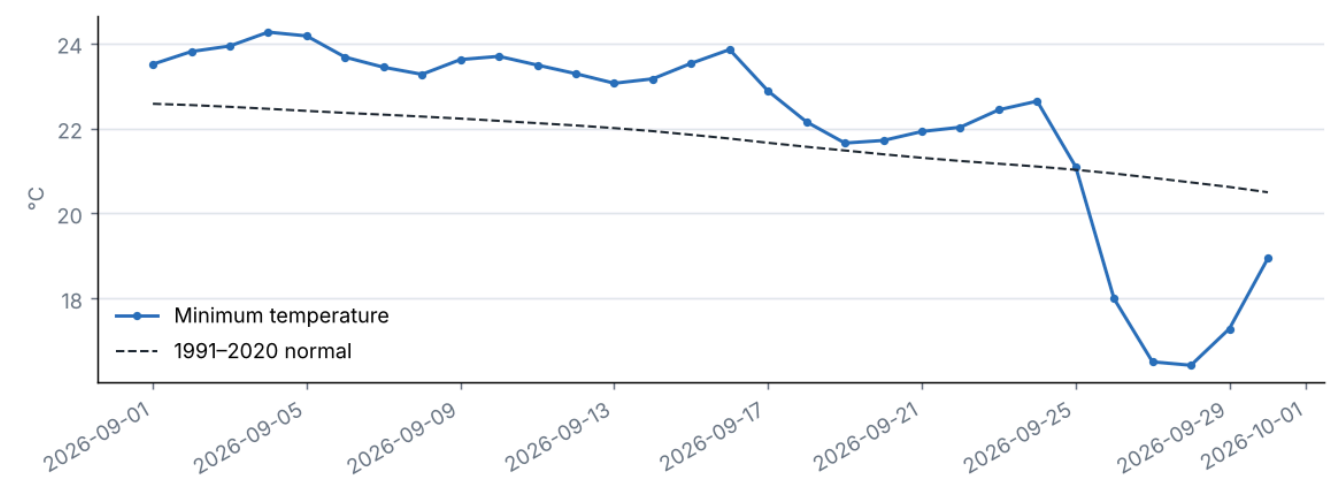
Lowest and highest monthly mean minimum temperature by region

Region	Lowest value (°C)	Station	Highest value (°C)	Station
Northwest	20.4	Crestview Faa/Ap	24.0	Destin Ft Walton Beach AP
North	19.2	Hastings 4NE	23.7	Jacksonville Nas
North Central	21.4	Mt Plymouth 1SSW	24.0	New Smyrna Bch - Marine Discov
South Central	22.1	Sebring 23 SSE	25.8	Nettles Is
South Florida	22.8	Moore Haven Lock 1	27.0	Key West Nas

Station monthly means (GHCN-Daily, $\geq 80\%$ of days with data).

Source: NOAA NCEI

Daily statewide minimum temperature



Source: NOAA NCEI

The statewide minimum temperature was 22.1 °C, 0.4 °C above the 1991–2020 average (21.7 °C), category “Normal”. It was the 14th warmest September in the 1979–2026 series (tied with 2017).

By region, the largest anomaly was in Northwest (+1.1 °C) and the smallest in South Florida (–0.2 °C).

Source: NOAA NCEI

5 Climate extremes and records

Highest maximum temperature

37.2 °C

Bahia Honda Sp · 2026-09-05

Lowest minimum temperature

12.2 °C

Quincy 3 SSW · 2026-09-28

Highest 24 h rainfall

149.9 mm

S Bay 15 S · 2026-09-03

Source: NOAA NCEI

Highest maximum temperature by county

County	Station	Temperature (°C)	Date
Manatee	Ft Green 12 WSW	37.2	2026-09-11
Monroe	Bahia Honda Sp	37.2	2026-09-05
Collier	Everglades City 5 NE	36.8	2026-09-05
Jackson	Marianna 7 NE	36.7	2026-09-03
Lake	Clermont 9 S	36.7	2026-09-15
Leon	Tallahassee AP	36.7	2026-09-15
Miami-Dade	Homestead Gen Aviation AP	36.7	2026-09-13
Broward	Ft Lauderdale Beach	36.1	2026-09-24
Marion	Ocala	36.1	2026-09-14
Orange	Orlando Intl AP	36.1	2026-09-10
Washington	Chipley	36.1	2026-09-15

County	Station	Temperature (°C)	Date
Okaloosa	Valparaiso Eglin Afb	36.0	2026-09-15
Highlands	Sebring 23 SSE	35.7	2026-09-10
Brevard	Palm Bay	35.6	2026-09-06
Hendry	Big Cypress	35.6	2026-09-09
Hillsborough	Plant City	35.6	2026-09-10
Polk	Winter Haven Gilbert AP	35.6	2026-09-12
St. Lucie	Ft Pierce	35.6	2026-09-06
Seminole	Sanford	35.6	2026-09-15
Bay	Nw Florida Beaches Intl AP	35.0	2026-09-02

The 20 most extreme of 48.

Source: NOAA NCEI

Lowest minimum temperature by county

County	Station	Temperature (°C)	Date
Gadsden	Quincy 3 SSW	12.2	2026-09-28
Leon	Tallahassee AP	12.2	2026-09-28
Columbia	Lake City 2 E	12.8	2026-09-26
Jackson	Marianna 7 NE	12.8	2026-09-28
Okaloosa	Crestview Faa/AP	12.8	2026-09-28
Baker	Glen St Mary 1 W	13.3	2026-09-28
Holmes	Bonifay Tri Co AP	13.3	2026-09-28
Duval	Jacksonville	13.9	2026-09-27
Jefferson	Monticello 10 SW	13.9	2026-09-26
Lafayette	Mayo	13.9	2026-09-28
Lake	Mt Plymouth 1SSW	13.9	2026-09-27
Volusia	Deland 1 SSE	13.9	2026-09-28
Brevard	Scottsmoor 2.5 SSW	14.4	2026-09-28
Citrus	Inverness 3 SE	14.4	2026-09-30
Hernando	Brooksville Hernando Co AP	14.4	2026-09-27
St. Johns	Hastings 4NE	14.4	2026-09-29
Washington	Chipley	14.4	2026-09-28
Hardee	Wauchula	15.0	2026-09-28
Santa Rosa	Whiting Fld Nas S	15.0	2026-09-28
Alachua	Gainesville Rgnl AP	15.6	2026-09-25

The 20 most extreme of 48.

Source: NOAA NCEI

Station records broken

Station	County	Variable	New value	Date	Previous record	Previous date
Ft Lauderdale Beach	Broward	Highest maximum temperature	36.1	2026-09-24	35.6	1958-09-22
N Miami Beach #2	Miami-Dade	Highest maximum temperature	36.7	2026-09-10	35.0	2014-09-30

Most extreme daily value of the period against the same period in all earlier years of record (at least 20 years; for weeks, the same calendar month).

Source: NOAA NCEI

Climate-extremes indices (statewide mean)

Index	Description	Value	Normal	Difference	Unit
TX90p	Warm days (Tmax > 90th percentile)	16.7	10.0	6.7	%
TN90p	Warm nights (Tmin > 90th percentile)	24.9	10.0	14.9	%
TX10p	Cool days (Tmax < 10th percentile)	4.1	10.0	-5.9	%
TN10p	Cold nights (Tmin < 10th percentile)	9.2	10.0	-0.8	%
FD	Frost days (Tmin < 0 °C)	0.0	0.0	0.0	d
SU	Summer days (Tmax > 25 °C)	29.9	29.8	0.2	d
TR	Tropical nights (Tmin > 20 °C)	25.4	25.2	0.3	d
WSDI	Warm spell days (≥ 6 days)	0.1	—	—	d
CSDI	Cold spell days (≥ 6 days)	0.0	—	—	d
Rx1day	Maximum 1-day precipitation	21.7	43.0	-21.3	mm
Rx5day	Maximum 5-day precipitation	50.3	83.9	-33.6	mm
CDD	Consecutive dry days (< 1 mm)	6.2	7.2	-1.0	d
CWD	Consecutive wet days (≥ 1 mm)	10.2	6.5	3.7	d

Percentile indices relative to calendar-day percentiles of 1991–2020 (5-day window); counts and maxima averaged over the state's grid cells.

Source: NOAA NCEI

Heat and cold waves

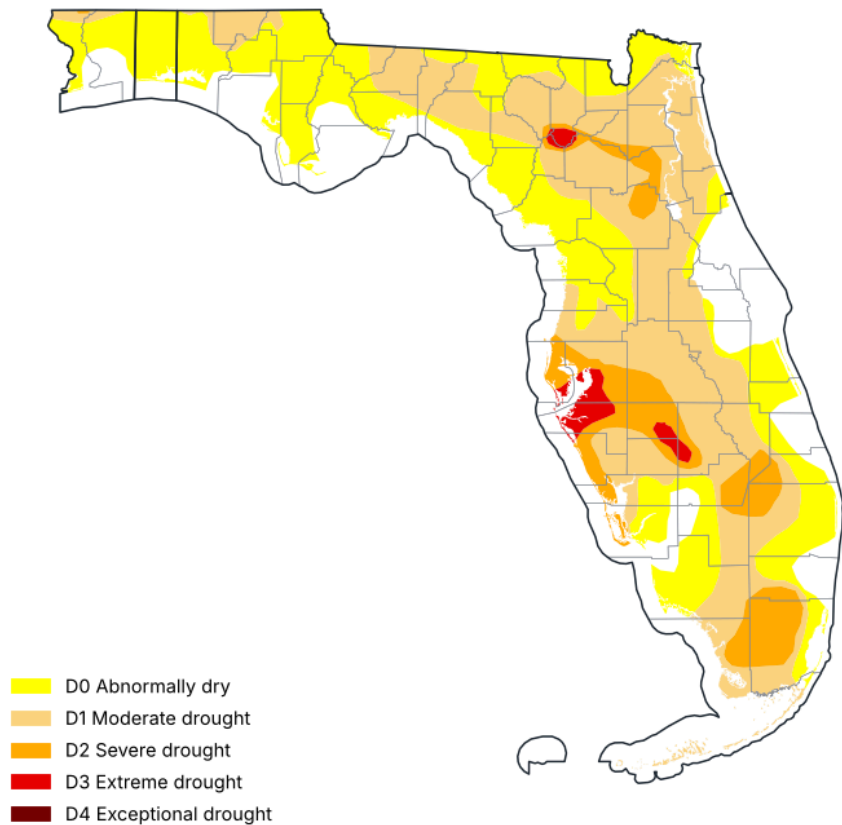
Dates	Type	Details
2026-09-27 – 2026-09-29	Cold wave	Up to 76% of the state below the 10th percentile of Tmin. Regions: North, North Central, South Central and South Florida.

Wave: at least 3 consecutive days with at least half of the state above the 90th percentile of maximum temperature (heat) or below the 10th percentile of minimum temperature (cold). At most the 10 most intense are listed.

Source: NOAA NCEI

6 Drought

U.S. Drought Monitor, 29 September 2026



Map valid from 29 September 2026. The U.S. Drought Monitor is jointly produced by the National Drought Mitigation Center at the University of Nebraska-Lincoln, the USDA and NOAA. Map courtesy of NDMC.

Source: National Drought Mitigation Center, USDA, NOAA

Share of the state by drought category, weekly U.S. Drought Monitor maps (%)

Map of	None (%)	D0–D4 (%)	D1–D4 (%)	D2–D4 (%)	D3–D4 (%)	D4 (%)
2026-09-01	8.8	91.2	66.2	29.7	3.6	0.0
2026-09-08	9.7	90.3	58.7	15.9	2.0	0.0
2026-09-15	9.7	90.3	54.5	13.7	2.0	0.0
2026-09-22	12.3	87.7	50.8	12.8	2.0	0.0
2026-09-29	11.4	88.6	52.4	12.8	1.8	0.0

Cumulative shares: D1–D4 is the share in moderate drought or worse.

Source: National Drought Mitigation Center, USDA, NOAA

Counties with the most severe drought, U.S. Drought Monitor of 29 September 2026 (% of the county)

County	D0–D4 (%)	D1–D4 (%)	D2–D4 (%)	D3–D4 (%)	D4 (%)
Manatee	100.0	100.0	73.9	44.5	0.0
Hillsborough	100.0	100.0	65.2	21.2	0.0

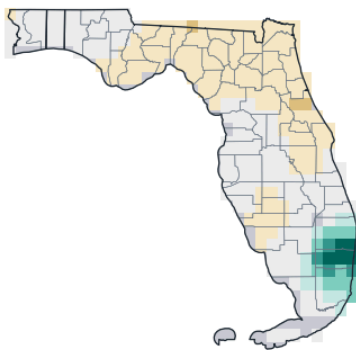
County	D0-D4 (%)	D1-D4 (%)	D2-D4 (%)	D3-D4 (%)	D4 (%)
Hardee	100.0	100.0	91.0	15.3	0.0
Pinellas	100.0	100.0	99.8	14.1	0.0
Columbia	100.0	70.0	19.2	14.1	0.0
DeSoto	100.0	100.0	24.7	9.5	0.0
Gilchrist	100.0	80.7	20.1	9.1	0.0
Highlands	100.0	100.0	24.8	6.9	0.0
Sarasota	100.0	100.0	51.4	2.3	0.0
Alachua	100.0	100.0	17.0	1.4	0.0

Cumulative shares: D1-D4 is the share in moderate drought or worse.

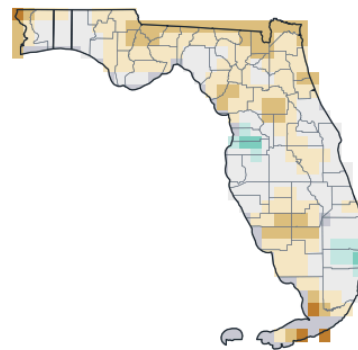
Source: National Drought Mitigation Center, USDA, NOAA

Standardized Precipitation Index (SPI) ending September 2026

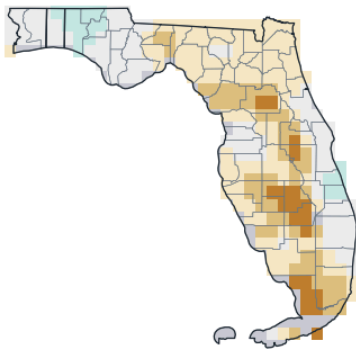
SPI-1



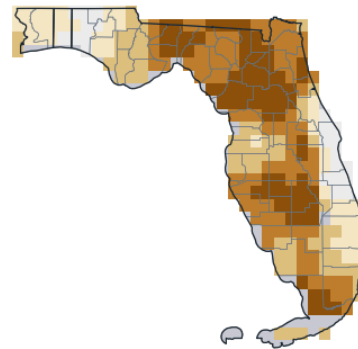
SPI-3



SPI-6



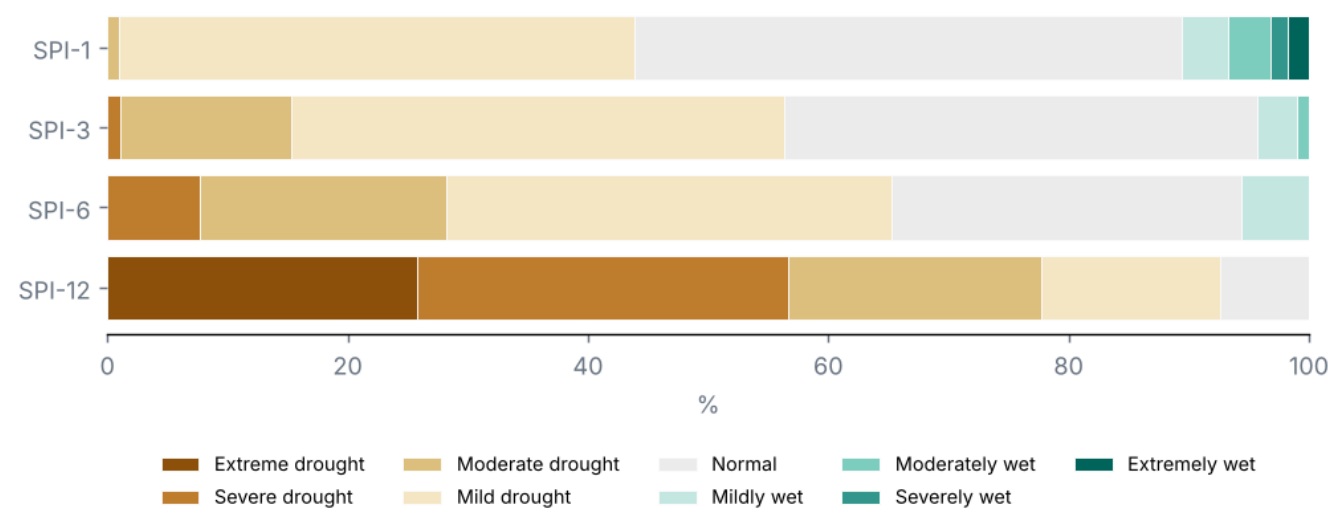
SPI-12



SPI computed from NCLIMGRID; gamma distribution fitted to 1991–2020 accumulations.

Source: NOAA NCEI

Share of the state by SPI category



Source: NOAA NCEI

Counties with the lowest SPI-3

County	SPI-1	SPI-3	SPI-6	SPI-12	Category
Baker	-0.6	-1.2	-0.7	-2.1	Moderate drought
Nassau	-0.9	-1.2	-0.6	-1.7	Moderate drought
Gadsden	-0.6	-1.0	-0.5	-1.8	Moderate drought
Hamilton	-0.6	-1.0	-0.7	-2.0	Mild drought
Monroe	0.1	-1.0	-1.4	-1.9	Mild drought
Leon	-0.8	-1.0	-0.9	-2.2	Mild drought
Levy	-0.5	-1.0	-1.2	-2.3	Mild drought
Duval	-0.8	-0.9	-0.6	-1.6	Mild drought
Charlotte	-0.6	-0.9	-1.1	-1.7	Mild drought
Lee	-0.6	-0.9	-0.9	-1.7	Mild drought

Source: NOAA NCEI

U.S. Drought Monitor, map of 29 September 2026: 52% of the state in drought (D1–D4), 13% in severe drought or worse (D2–D4) and 2% in extreme or exceptional drought (D3–D4); 89% was abnormally dry or in drought (D0–D4).

On the map of 25 August 2026, 67% of the state was in drought: a change of –15 points over the period.

Counties with the largest share in severe drought or worse (D2–D4): Pinellas (100%), Hardee (91%) and Manatee (74%).

SPI-3 (Jul–Sep 2026): statewide mean –0.51; 15% of the state in drought (SPI ≤ –1.0) and 1% in severe or extreme drought.

Most affected counties: Baker (–1.21), Nassau (–1.20) and Gadsden (–1.04).

SPI-1 (September 2026): 1% of the state in drought.

SPI-6 (Apr–Sep 2026): 28% of the state in drought.

SPI-12 (Oct 2025–Sep 2026): 78% of the state in drought.

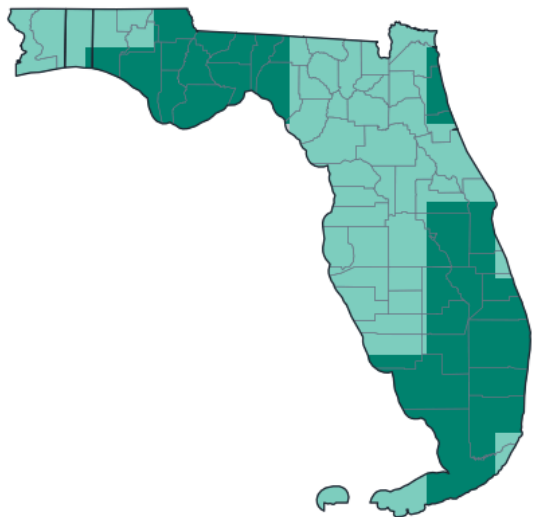
7 Severe weather and notable events

No tropical cyclone came within 300 km of the state.

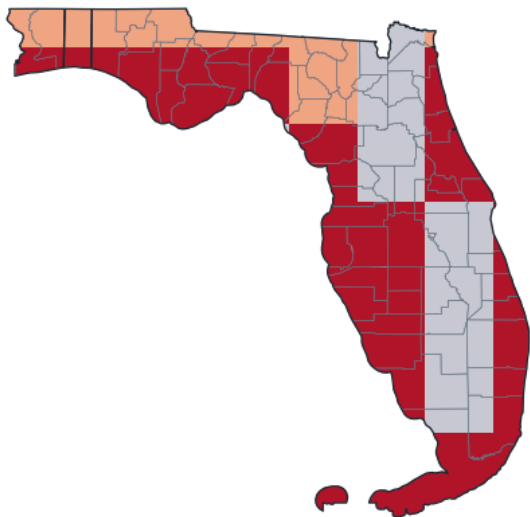
9 Outlook

Outlook for October 2026: most likely tercile

Precipitation

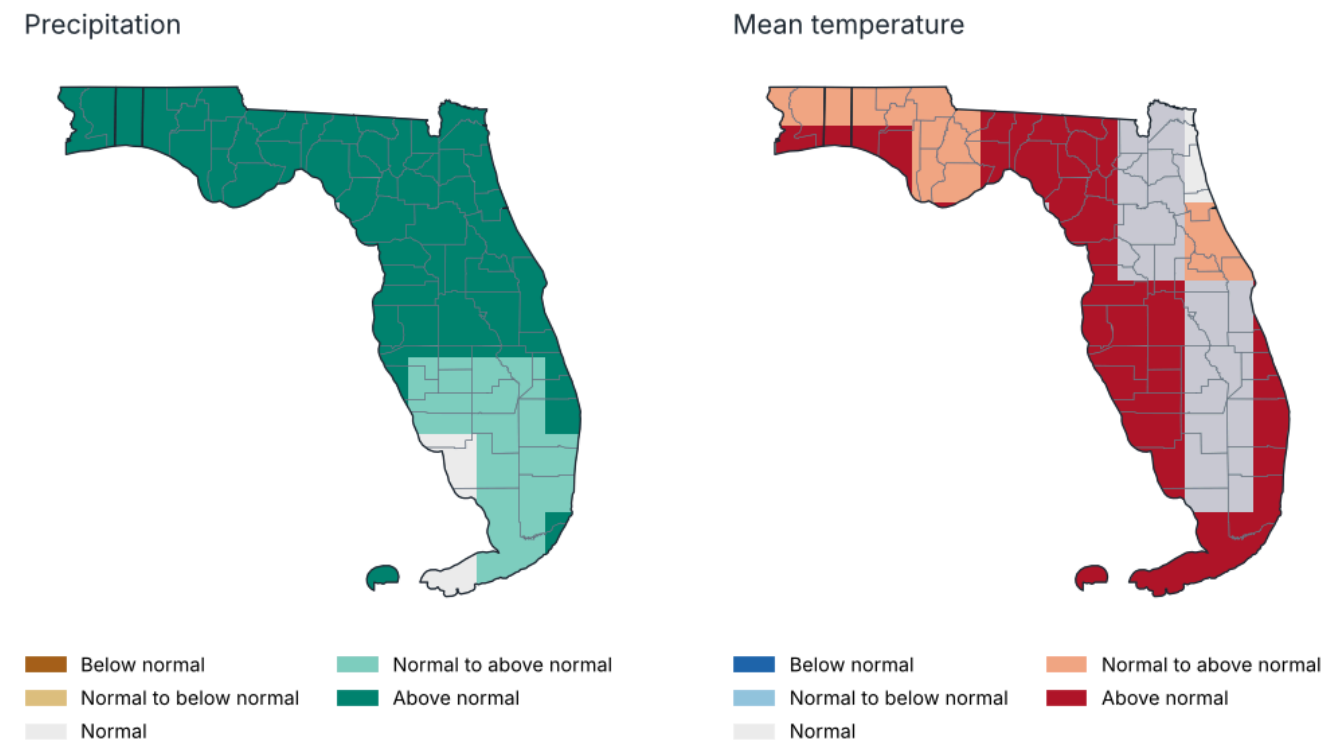


Mean temperature



Source: NOAA CPC

Outlook for Oct–Dec 2026: most likely tercile



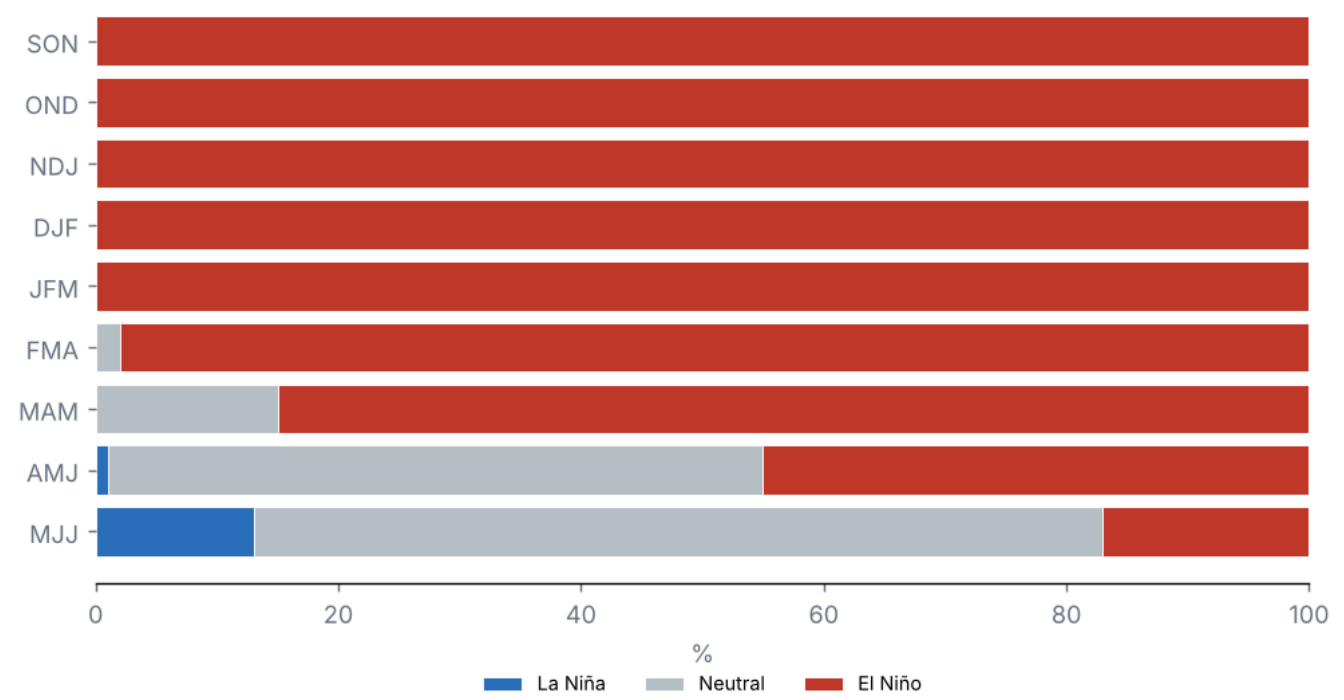
Source: NOAA CPC

Probability of each tercile by region, Oct–Dec 2026 (%)

Region	Precipitation: below	Precipitation: normal	Precipitation: above	Temp.: below	Temp.: normal	Temp.: above
Northwest	8.0	21.0	71.0	17.0	33.0	50.0
North	9.0	25.0	66.0	20.0	30.0	50.0
North Central	17.0	29.0	54.0	20.0	31.0	49.0
South Central	19.0	29.0	52.0	16.0	28.0	57.0
South Florida	25.0	30.0	45.0	10.0	26.0	64.0

Source: NOAA CPC

ENSO outlook: probability of each phase (%)



Source: NOAA CPC

Probabilistic outlook from the North American Multi-Model Ensemble (NMME), initialised in October 2026, relative to 1991–2020 terciles. It is not an official forecast: consult the National Weather Service and NOAA's Climate Prediction Center.

Precipitation, October 2026: above normal is favoured over 100% of the state and below normal over 0%.

Mean temperature, October 2026: above normal is favoured over 100% of the state and below normal over 0%.

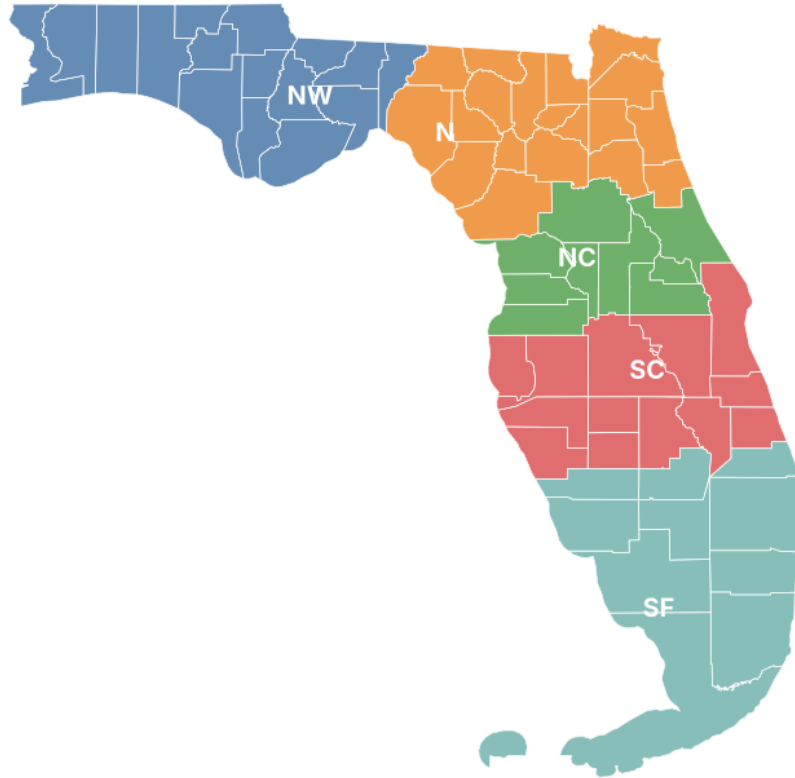
Precipitation, Oct–Dec 2026: above normal is favoured over 96% of the state and below normal over 0%.

Mean temperature, Oct–Dec 2026: above normal is favoured over 97% of the state and below normal over 0%.

Probability of El Niño in the official ENSO outlook: SON 100%, OND 100%, NDJ 100% and DJF 100%.

10 Annexes

Report climate regions



Monthly precipitation by county (mm)

County	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Alachua	32.7	38.6	21.1	15.2	156.5	102.0	122.7	265.4	81.6
Baker	41.8	43.0	36.1	23.1	192.6	125.3	88.0	193.8	88.7
Bay	61.9	72.5	35.9	27.6	277.2	169.9	136.5	174.6	100.3
Bradford	33.9	35.3	32.4	18.9	175.0	107.0	110.6	236.0	88.7
Brevard	13.1	44.4	72.7	110.4	71.0	202.2	191.5	168.9	131.8
Broward	32.8	3.1	112.9	86.9	141.4	85.5	160.7	147.0	352.4
Calhoun	66.7	67.9	34.2	33.8	246.3	188.6	104.0	163.8	87.4
Charlotte	19.5	27.9	88.1	57.3	120.6	134.9	197.2	165.9	140.4
Citrus	23.3	59.2	42.8	30.1	152.0	81.7	170.2	245.8	138.0
Clay	33.7	30.6	48.4	28.2	138.9	124.4	115.2	200.2	101.9
Collier	21.9	8.7	55.6	56.5	150.6	146.4	197.9	144.5	210.9
Columbia	35.8	51.8	30.3	28.9	172.7	141.6	97.5	215.0	81.2
DeSoto	18.9	32.5	80.7	58.8	86.5	112.2	198.8	171.0	134.0
Dixie	35.8	54.7	21.8	20.7	135.8	118.5	119.7	260.6	79.9
Duval	41.1	26.0	51.6	29.8	140.0	148.1	97.5	171.4	105.9
Escambia	69.6	61.6	47.2	38.0	244.8	202.9	137.6	143.4	114.8
Flagler	18.6	44.6	55.0	38.5	145.4	153.6	127.3	167.8	101.3

County	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Franklin	47.1	57.7	39.8	11.2	249.6	131.4	213.6	165.9	70.7
Gadsden	81.0	52.1	35.5	30.6	168.1	173.2	92.6	154.0	67.7
Gilchrist	34.0	48.9	20.1	23.8	162.5	117.1	105.1	263.0	77.9
Glades	10.0	16.1	86.9	63.6	98.5	94.8	200.4	120.7	140.6
Gulf	47.3	60.7	39.3	16.3	258.2	149.4	193.4	166.8	78.9
Hamilton	41.9	43.7	28.0	21.0	129.3	167.2	85.8	188.1	72.1
Hardee	18.6	32.8	56.1	61.3	68.4	95.9	224.5	185.1	133.4
Hendry	12.5	9.1	65.6	76.5	151.7	111.7	174.8	130.5	178.4
Hernando	22.2	41.9	46.7	28.9	149.4	52.8	216.9	285.1	167.6
Highlands	17.1	30.2	70.7	64.3	50.6	90.6	215.1	142.6	136.6
Hillsborough	22.6	42.4	48.4	39.1	121.7	69.7	240.2	231.7	146.9
Holmes	58.7	99.0	44.7	37.8	363.9	231.2	109.0	157.7	93.5
Indian River	14.7	56.3	64.3	175.3	90.9	188.3	240.4	127.7	148.1
Jackson	75.2	80.4	31.8	38.9	259.8	208.3	77.9	143.9	83.6
Jefferson	57.0	58.3	36.9	9.0	125.4	120.0	148.9	168.1	58.6
Lafayette	36.3	67.6	33.2	16.3	150.0	128.3	158.6	244.0	75.9
Lake	20.1	40.1	51.1	35.0	139.7	95.0	174.5	157.3	124.5
Lee	20.4	16.6	60.9	59.6	134.4	150.2	212.7	154.8	154.3
Leon	74.4	49.1	37.5	15.8	143.0	132.2	132.0	151.0	59.4
Levy	34.0	46.7	18.1	24.9	135.3	98.9	95.7	251.6	86.9
Liberty	63.9	57.9	36.6	24.7	222.7	168.6	140.1	164.6	77.0
Madison	42.1	61.2	33.5	11.9	126.4	136.6	135.0	188.7	61.3
Manatee	22.2	41.3	63.3	42.5	119.2	60.5	223.6	207.1	140.1
Marion	28.1	63.5	39.0	23.8	121.8	106.4	142.9	187.7	101.9
Martin	13.8	33.9	73.2	149.9	124.7	143.0	191.1	105.1	178.5
Miami-Dade	29.8	3.4	112.4	69.7	116.6	106.6	146.7	139.2	277.1
Monroe	—	—	—	—	—	—	—	—	—
Nassau	48.1	31.3	44.1	22.8	167.8	150.5	91.5	173.0	93.4
Okaloosa	82.7	75.6	41.2	23.5	328.6	163.5	135.4	188.6	120.2
Okeechobee	14.7	39.8	70.1	119.8	89.7	146.2	246.6	120.7	139.4
Orange	18.6	27.5	50.4	50.7	82.7	125.7	168.5	188.2	112.2
Osceola	16.6	40.9	68.8	101.7	58.8	129.8	185.8	151.5	121.7
Palm Beach	16.6	12.2	102.9	117.6	141.7	98.9	170.4	125.1	291.0
Pasco	25.4	37.6	42.1	32.6	144.6	48.8	234.3	273.3	164.1
Pinellas	22.3	41.3	51.4	40.7	126.0	54.8	208.9	262.6	140.6
Polk	22.4	36.3	50.8	70.6	75.3	113.0	241.4	180.7	141.2
Putnam	25.9	42.5	50.9	28.5	121.0	125.1	137.8	187.9	105.1
St. Johns	27.5	39.1	53.2	31.4	110.3	134.8	122.8	153.7	117.4
St. Lucie	16.9	51.5	66.1	175.0	127.7	181.2	241.2	124.2	148.0
Santa Rosa	79.5	73.9	46.0	24.9	280.0	159.3	149.5	173.5	117.2
Sarasota	26.7	42.5	70.8	42.7	130.6	64.0	225.0	200.0	147.2
Seminole	18.5	26.8	51.4	37.8	83.2	151.3	187.3	198.1	106.8
Sumter	21.7	51.6	45.3	30.3	166.3	79.1	174.8	186.8	145.4
Suwannee	36.5	58.0	32.9	20.9	157.1	145.1	131.3	220.9	75.3
Taylor	39.4	70.1	34.5	6.7	105.3	115.2	192.5	226.2	71.8
Union	32.6	45.6	31.0	25.4	187.7	112.4	101.0	230.6	85.7
Volusia	17.4	33.0	55.9	38.9	135.2	159.7	166.4	205.6	98.4
Wakulla	65.3	52.7	37.5	13.1	158.4	130.3	167.8	165.7	66.2

County	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Walton	75.8	82.2	40.7	25.9	355.0	189.0	131.5	185.0	113.0
Washington	67.8	92.6	37.6	40.7	326.7	198.4	101.6	157.3	100.1

CSV

Source: NOAA NCEI

Monthly maximum temperature by region (°C)

Region	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Northwest	17.8	20.2	25.0	27.4	29.0	31.7	33.8	33.4	32.1
North	19.2	20.8	26.1	28.7	30.5	33.2	34.4	33.5	31.8
North Central	21.2	22.0	27.3	28.6	32.0	33.4	33.8	33.5	31.9
South Central	22.9	23.2	28.1	28.8	32.7	33.8	34.0	33.9	32.2
South Florida	24.8	25.3	29.1	29.3	33.1	33.8	34.3	34.4	32.6

CSV

Source: NOAA NCEI

Monthly mean temperature by region (°C)

Region	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Northwest	11.1	13.3	18.4	20.5	23.5	26.9	28.5	28.2	26.6
North	12.1	13.2	18.9	21.3	24.7	27.4	28.8	28.2	26.4
North Central	14.4	14.6	21.0	22.3	26.4	28.0	28.8	28.6	27.1
South Central	16.0	15.8	22.1	23.2	27.1	28.5	28.9	29.0	27.5
South Florida	18.6	18.2	23.4	24.4	27.6	28.8	29.5	29.6	27.9

CSV

Source: NOAA NCEI

Monthly minimum temperature by region (°C)

Region	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Northwest	4.4	6.4	11.7	13.6	18.1	22.0	23.2	23.1	21.2
North	4.9	5.5	11.8	14.0	18.9	21.7	23.2	22.8	21.1
North Central	7.6	7.3	14.7	16.1	20.8	22.6	23.7	23.6	22.2
South Central	9.1	8.3	16.0	17.6	21.5	23.2	23.9	24.0	22.9
South Florida	12.5	11.2	17.8	19.4	22.2	23.8	24.8	24.8	23.2

CSV

Source: NOAA NCEI

Stations used

Id	Name	County	Latitude	Longitude	Altitude (m)	Days with data (Tmax) (%)
USC00080211	Apalachicola AP	Franklin	29.7	-85.0	6.1	100.0
USC00080236	Archbold Bio Stn	Highlands	27.2	-81.4	41.5	30.0
USC00080414	Bahia Honda Sp	Monroe	24.7	-81.3	2.4	97.0
USC00080478	Bartow 1SE	Polk	27.9	-81.8	34.1	0.0
USC00080737	Big Cypress	Hendry	26.3	-81.0	4.6	100.0
USC00080945	Bradenton 5 ESE	Manatee	27.4	-82.5	5.2	77.0
USC00081276	Canal Pt Usda	Palm Beach	26.9	-80.6	9.1	70.0
USC00081306	Cape Florida	Miami-Dade	25.7	-80.2	1.8	100.0

Id	Name	County	Latitude	Longitude	Altitude (m)	Days with data (Tmax) (%)
USC00081544	Chipley	Washington	30.8	-85.6	39.6	93.0
USC00081641	Clermont 9 S	Lake	28.5	-81.7	39.6	93.0
USC00082046	Curry Hammock Sp	Monroe	24.7	-81.0	1.2	90.0
USC00082150	Daytona Beach	Volusia	29.2	-81.0	8.8	97.0
USC00082229	Deland 1 SSE	Volusia	29.0	-81.3	7.6	90.0
USC00082298	Devils Garden	Hendry	26.7	-81.1	7.9	0.0
USC00082418	Dry Tortugas	Monroe	24.6	-82.9	0.9	80.0
USC00082944	Fernandina Beach	Nassau	30.7	-81.5	14.9	60.0
USC00083153	Ft Green 12 WSW	Manatee	27.6	-82.1	34.1	100.0
USC00083163	Ft Lauderdale	Broward	26.1	-80.2	4.9	97.0
USC00083168	Ft Lauderdale Beach	Broward	26.1	-80.1	1.2	83.0
USC00083207	Ft Pierce	St. Lucie	27.4	-80.4	7.6	100.0
USC00083470	Glen St Mary 1 W	Baker	30.3	-82.2	39.0	93.0
USC00083874	Hastings 4NE	St. Johns	29.8	-81.5	3.0	100.0
USC00083909	Hialeah	Miami-Dade	25.8	-80.3	3.7	93.0
USC00083986	Hillsborough Rvr Sp	Hillsborough	28.1	-82.2	16.2	0.0
USC00084050	Hollywood	Broward	26.0	-80.1	2.7	93.0
USC00084095	Homestead Gen Aviation AP	Miami-Dade	25.5	-80.5	2.7	90.0
USC00084289	Inverness 3 SE	Citrus	28.8	-82.3	17.7	97.0
USC00084366	Jacksonville Beach	Duval	30.3	-81.4	3.0	100.0
USC00084394	Jasper	Hamilton	30.5	-82.9	39.6	0.0
USC00084412	John Pennekamp Sp	Monroe	25.2	-80.3	1.8	93.0
USC00084461	Juno Beach	Palm Beach	26.9	-80.1	1.5	30.0
USC00084500	Kenansville	Osceola	27.9	-81.0	18.6	47.0
USC00084571	Key W Wfo	Monroe	24.6	-81.8	1.2	97.0
USC00084621	Kissimmee Prairie Preserve	Okeechobee	27.6	-81.1	21.9	0.0
USC00084625	Kissimmee 2	Osceola	28.3	-81.4	18.3	93.0
USC00084731	Lake City 2 E	Columbia	30.2	-82.6	59.4	47.0
USC00084802	Lakeland 2	Polk	28.0	-82.0	42.4	0.0
USC00085076	Lisbon	Lake	28.9	-81.8	20.7	87.0
USC00085359	Marco Is	Collier	25.9	-81.7	3.0	100.0
USC00085377	Marianna 7 NE	Jackson	30.7	-85.0	35.1	70.0
USC00085539	Mayo	Lafayette	30.1	-83.2	25.3	40.0
USC00085612	Melbourne Wfo	Brevard	28.1	-80.7	10.7	97.0
USC00085667	Miami Nwsfo	Miami-Dade	25.8	-80.4	4.3	100.0
USC00085880	Monticello 10 SW	Jefferson	30.4	-84.0	66.8	90.0
USC00085895	Moore Haven Lock 1	Glades	26.8	-81.1	10.7	100.0
USC00086048	Muse	Glades	26.8	-81.5	13.1	0.0
USC00086078	Naples	Collier	26.2	-81.7	12.2	0.0
USC00086092	Nettles Is	St. Lucie	27.3	-80.2	3.0	60.0
USC00086240	Niceville	Okaloosa	30.5	-86.5	22.6	100.0
USC00086315	N Miami Beach #2	Miami-Dade	25.9	-80.2	3.0	87.0
USC00086319	N Port	Sarasota	27.0	-82.2	3.7	0.0
USC00086414	Ocala	Marion	29.2	-82.1	22.9	97.0
USC00086634	Orlando W	Orange	28.5	-81.5	45.7	97.0
USC00086761	Palm Bay	Brevard	27.9	-80.6	8.2	93.0
USC00086764	Palm Beach Gardens	Palm Beach	26.8	-80.1	6.1	93.0
USC00086767	Palm Coast 6NE	Flagler	29.6	-81.2	1.5	87.0

Id	Name	County	Latitude	Longitude	Altitude (m)	Days with data (Tmax) (%)
USC00086999	Pensacola 7 NNE	Escambia	30.5	-87.2	34.7	100.0
USC00087025	Perry	Taylor	30.1	-83.6	13.7	0.0
USC00087205	Plant City	Hillsborough	28.0	-82.1	33.2	100.0
USC00087228	Mt Plymouth 1SSW	Lake	28.8	-81.5	27.4	100.0
USC00087261	New Smyrna Bch - Marine Discov	Volusia	29.0	-80.9	4.9	90.0
USC00087304	Port Salerno 5W	Martin	27.1	-80.3	3.7	100.0
USC00087429	Quincy 3 SSW	Gadsden	30.5	-84.6	72.2	23.0
USC00087760	Royal Palm Rs	Miami-Dade	25.4	-80.6	2.1	100.0
USC00087826	St Augustine Wtp	St. Johns	29.9	-81.3	3.7	53.0
USC00087851	Saint Leo	Pasco	28.3	-82.3	52.7	0.0
USC00087887	St Petersburg 2	Pinellas	27.8	-82.7	6.7	0.0
USC00087982	Sanford	Seminole	28.8	-81.3	3.7	83.0
USC00088051	Scottsmeer 2.5 SSW	Brevard	28.7	-80.9	12.8	90.0
USC00088368	S Bay 15 S	Palm Beach	26.5	-80.6	6.1	53.0
USC00088620	Stuart	Martin	27.2	-80.2	4.0	100.0
USC00088756	Tallahassee AP	Leon	30.4	-84.4	16.8	97.0
USC00088782	Tampa Bay Area Wfo	Hillsborough	27.7	-82.4	12.2	100.0
USC00088784	Tampa 6 NE	Hillsborough	28.1	-82.5	13.4	0.0
USC00088824	Tarpon Spgs Sewage Plt	Pinellas	28.2	-82.8	1.8	27.0
USC00088942	Titusville	Brevard	28.6	-80.8	4.9	97.0
USC00089120	Usher Twr	Levy	29.4	-82.8	10.1	100.0
USC00089176	Venice	Sarasota	27.1	-82.4	2.4	87.0
USC00089219	Vero Beach 4SE	Indian River	27.7	-80.4	6.1	60.0
USC00089401	Wauchula	Hardee	27.5	-81.8	18.3	53.0
USC00089795	Woodruff Dam	Jackson	30.7	-84.9	32.6	0.0
USW00003818	Marianna Muni AP	Jackson	30.8	-85.2	32.6	100.0
USW00003852	Valparaiso Hurlburt Fld	Okaloosa	30.4	-86.7	11.9	100.0
USW00003853	Mayport Pilot Stn	Duval	30.4	-81.4	4.9	37.0
USW00003855	Pensacola Forest Sherman Nas	Escambia	30.4	-87.3	8.5	40.0
USW00012809	Bartow Muni AP	Polk	27.9	-81.8	57.0	0.0
USW00012810	Macdill Afb	Hillsborough	27.9	-82.5	7.9	100.0
USW00012812	Punta Gorda Charlotte Co AP	Charlotte	26.9	-82.0	6.1	100.0
USW00012815	Orlando Intl AP	Orange	28.4	-81.3	27.1	100.0
USW00012816	Gainesville Rgnl AP	Alachua	29.7	-82.3	40.5	100.0
USW00012818	Brooksville Hernando Co AP	Hernando	28.5	-82.5	19.8	100.0
USW00012819	Leesburg Muni AP	Lake	28.8	-81.8	20.7	100.0
USW00012826	Homestead Afb	Miami-Dade	25.5	-80.4	4.9	100.0
USW00012832	Apalachicola AP	Franklin	29.7	-85.0	5.5	100.0
USW00012834	Daytona Beach Intl AP	Volusia	29.2	-81.1	7.9	100.0
USW00012835	Ft Myers Page Fld AP	Lee	26.6	-81.9	4.0	100.0
USW00012836	Key W Intl AP	Monroe	24.6	-81.8	0.3	100.0
USW00012838	Melbourne Intl AP	Brevard	28.1	-80.6	6.7	97.0
USW00012839	Miami Intl AP	Miami-Dade	25.8	-80.3	1.5	100.0
USW00012841	Orlando Executive AP	Orange	28.5	-81.3	31.7	100.0
USW00012842	Tampa Intl AP	Hillsborough	28.0	-82.5	1.8	100.0
USW00012843	Vero Beach Intl AP	Indian River	27.7	-80.4	5.8	100.0
USW00012844	W Palm Beach Intl AP	Palm Beach	26.7	-80.1	3.7	100.0
USW00012849	Ft Lauderdale Intl AP	Broward	26.1	-80.2	0.9	100.0

Id	Name	County	Latitude	Longitude	Altitude (m)	Days with data (Tmax) (%)
USW00012850	Key West Nas	Monroe	24.6	-81.7	1.8	100.0
USW00012854	Orlando Sanford AP	Seminole	28.8	-81.2	14.9	100.0
USW00012861	Ocala Jim Taylor Fld	Marion	29.2	-82.2	26.5	0.0
USW00012867	Cocoa Beach Patrick Afb	Brevard	28.2	-80.6	3.0	100.0
USW00012868	Cape Kennedy Afs	Brevard	28.5	-80.6	4.9	100.0
USW00012871	Sarasota Bradenton AP	Manatee	27.4	-82.6	5.2	100.0
USW00012873	St Petersburg Clearwater Intl	Pinellas	27.9	-82.7	0.0	100.0
USW00012876	Winter Haven Gilbert AP	Polk	28.1	-81.8	43.6	100.0
USW00012882	Miami Opa Locka AP	Miami-Dade	25.9	-80.3	1.2	100.0
USW00012883	Lakeland Linder Rgnl AP	Polk	28.0	-82.0	45.1	100.0
USW00012885	Ft Lauderdale Executive AP	Broward	26.2	-80.2	3.7	100.0
USW00012888	Miami Kendall Tamiami Exec AP	Miami-Dade	25.6	-80.4	1.8	0.0
USW00012894	Ft Myers SW Florida Rgnl AP	Lee	26.5	-81.8	8.2	100.0
USW00012895	Ft Pierce St Lucie Co Intl AP	St. Lucie	27.5	-80.4	5.8	100.0
USW00012896	Marathon AP	Monroe	24.7	-81.0	0.9	100.0
USW00012897	Naples Muni AP	Collier	26.2	-81.8	2.1	100.0
USW00013846	Tyndall Afb	Bay	30.1	-85.6	7.0	100.0
USW00013858	Valparaiso Eglin Afb	Okaloosa	30.5	-86.5	18.0	97.0
USW00013884	Crestview Faa/AP	Okaloosa	30.8	-86.5	46.9	100.0
USW00013889	Jacksonville	Duval	30.5	-81.7	48.8	100.0
USW00013899	Pensacola Rgnl AP	Escambia	30.5	-87.2	36.0	100.0
USW00053847	Whiting Fld Nas S	Santa Rosa	30.7	-87.0	50.0	73.0
USW00053848	Choctaw Naval Outlying Fld Mil	Santa Rosa	30.5	-87.0	34.1	33.0
USW00053853	Destin Ft Walton Beach AP	Okaloosa	30.4	-86.5	5.5	100.0
USW00053860	Jacksonville Craig Muni AP	Duval	30.3	-81.5	11.9	100.0
USW00063871	Bonifay Tri Co AP	Holmes	30.8	-85.6	31.1	100.0
USW00063890	Jacksonville Whitehouse Naval	Duval	30.4	-81.9	27.1	100.0
USW00073805	Nw Florida Beaches Intl AP	Bay	30.3	-85.8	17.1	100.0
USW00092805	Pompano Beach Airpark	Broward	26.2	-80.1	4.6	100.0
USW00092806	St Petersburg Albert Whitted A	Pinellas	27.8	-82.6	1.2	100.0
USW00092809	Hollywood N Perry AP	Broward	26.0	-80.2	1.8	100.0
USW00092811	Miami Beach	Miami-Dade	25.8	-80.1	2.4	0.0
USW00092814	St Augustine AP	St. Johns	30.0	-81.3	3.0	0.0
USW00092821	Titusville 7 E	Brevard	28.6	-80.7	0.9	100.0
USW00092826	Everglades City 5 NE	Collier	25.9	-81.3	1.2	100.0
USW00092827	Sebring 23 SSE	Highlands	27.2	-81.4	45.7	100.0
USW00093805	Tallahassee	Leon	30.4	-84.3	53.9	100.0
USW00093837	Jacksonville Nas	Duval	30.2	-81.7	6.1	93.0
USW00093841	Whiting Fld Nas	Santa Rosa	30.7	-87.0	60.7	77.0

CSV

Source: NOAA NCEI

- Report data (JSON)
- Tables (CSV)

11 Glossary, methodology and sources

Anomaly: difference between the observed value and its 1991–2020 normal. Percent of normal: observed total divided by the normal, times 100. Station record: most extreme daily value for the same month in all earlier years of record (at least 20 years).

Temperature: NOAA nClimGrid-Daily. Precipitation: NOAA nClimGrid-Daily. nClimGrid-Daily is the grid behind NOAA's official statewide values; it is averaged here from 1/24° to 1/8° (about 12 km). Mean temperature is (Tmax + Tmin)/2. Statewide, regional and county averages are weighted by the area of each grid cell inside each polygon. Temperature maps, frost days and annex tables are given by region; regions are NOAA NCEI climate divisions, with each county in the division of its centroid. Recent weeks use NCEI's preliminary file of the month; such reports are marked preliminary and updated when the final file is published. Normals refer to 1991–2020; ranks compare values rounded to one decimal. Stations: GHCN-Daily (NOAA NCEI) cooperative and first-order stations; values flagged by its quality control are discarded, as are daily values more than 5 robust standard deviations from the station median and variables whose monthly anomaly differs by more than 3 °C from the gridded analysis. Period means require at least 80% of days with data and station normals at least 20 complete years. This report is generated automatically and does not replace official information from the National Weather Service or the state climatologist.

Source	Product	License	Citation
NOAA CPC	Official ENSO probabilities	Public domain (NOAA)	—
NOAA CPC	ONI, Niño-region SST indices (OISST v2.1), NAO and AO	Public domain (NOAA)	NOAA Climate Prediction Center climate indices.
NOAA NCEI / PSL	Extended Reconstructed SST v5 (ERSST v5), 2°	Public domain (NOAA)	Huang et al. (2017), J. Climate, doi:10.1175/JCLI-D-16-0836.1
GDACS	Global Disaster Alert and Coordination System event list	See provider terms	—
NOAA NCEI	GHCN-Daily	Public domain (NOAA)	Menne et al. (2012), J. Atmos. Oceanic Technol., doi:10.1175/JTECH-D-11-00103.1
NOAA NCEI	IBTrACS v04r01 tropical-cyclone best tracks	Public domain (NOAA)	Knapp et al. (2010), Bull. Amer. Meteor. Soc., doi:10.1175/2009BAMS2755.1
NOAA NCEI	Pacific Decadal Oscillation index (ERSST v5)	Public domain (NOAA)	—
NOAA NCEI	nClimGrid-Daily, contiguous United States (1/24°, averaged here to 1/8°)	Public domain (NOAA)	Durre, I., et al. (2022). NOAA's nClimGrid-Daily Version 1. NOAA National Centers for Environmental Information. doi:10.25921/c4gt-r169
NOAA CPC	North American Multi-Model Ensemble (NMME) tercile probabilities, 1°	Public domain (NOAA)	Kirtman et al. (2014), Bull. Amer. Meteor. Soc., doi:10.1175/BAMS-D-12-00050.1
NOAA PSL	Real-time OLR MJO Index (ROMI)	Public domain (NOAA)	Kiladis et al. (2014), Mon. Wea. Rev., doi:10.1175/MWR-D-13-00301.1
National Drought Mitigation Center, USDA, NOAA	U.S. Drought Monitor, weekly maps and area statistics	Free to use with credit (NDMC)	The U.S. Drought Monitor is jointly produced by the National Drought Mitigation Center at the University of Nebraska-Lincoln, the United States Department of Agriculture and the National Oceanic and Atmospheric Administration. Map courtesy of NDMC.

Source	Product	License	Citation
US Census Bureau TIGERweb	US Census Bureau, TIGERweb counties (generalised)	Public domain (US Government work)	—

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