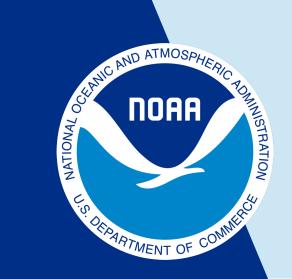
NOAA Climate Science and Services Monthly Climate Update



Russ Vose

Ph.D., Chief of Climate Monitoring and Assessment, NOAA National Centers for Environmental Information

Cory Baggett

Meteorologist, NOAA Climate Prediction Center (CPC)

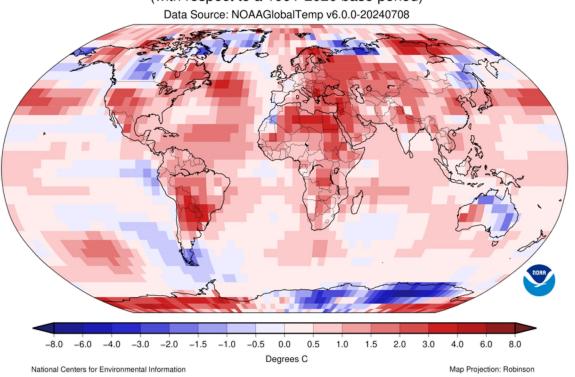
National Oceanic and Atmospheric Administration

June 2024

June 2024 Global Temperature

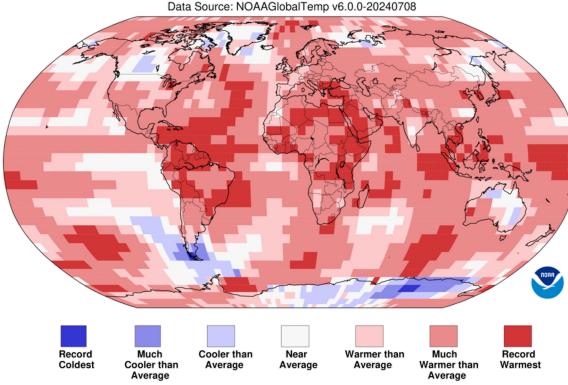
The global temperature record dates back to 1850 (175 years)

Land & Ocean Temperature Departure from Average Jun 2024 (with respect to a 1991-2020 base period)



Land & Ocean Temperature Percentiles Jun 2024 NOAA's National Centers for Environmental Information



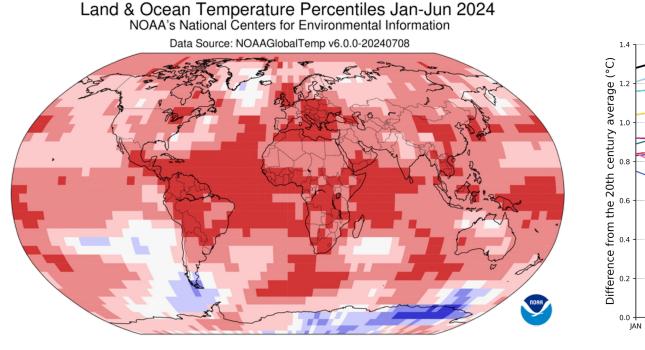


- Global Land & Ocean: +1.22°C/+2.20°F; warmest for June on record
- Global Land-only: +1.75°C/+3.15°F; warmest for June on record
- Global Ocean-only: +0.98°C/+1.76°F; warmest for June on record

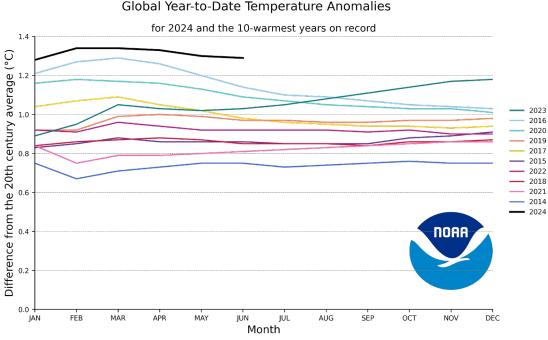


January-June 2024 Global Temperature

The global temperature record dates back to 1850 (175 years)



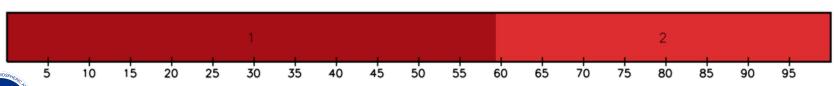
Average





Much

Warmer than



59% chance 2024 will be warmest year on record

100% chance 2024 will be a top 5 year

Record

Record

Coldest

Much

Cooler than

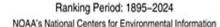
Cooler than

Average

Contiguous U.S. June 2024 The U.S. record dates back to 1895 (130 years)

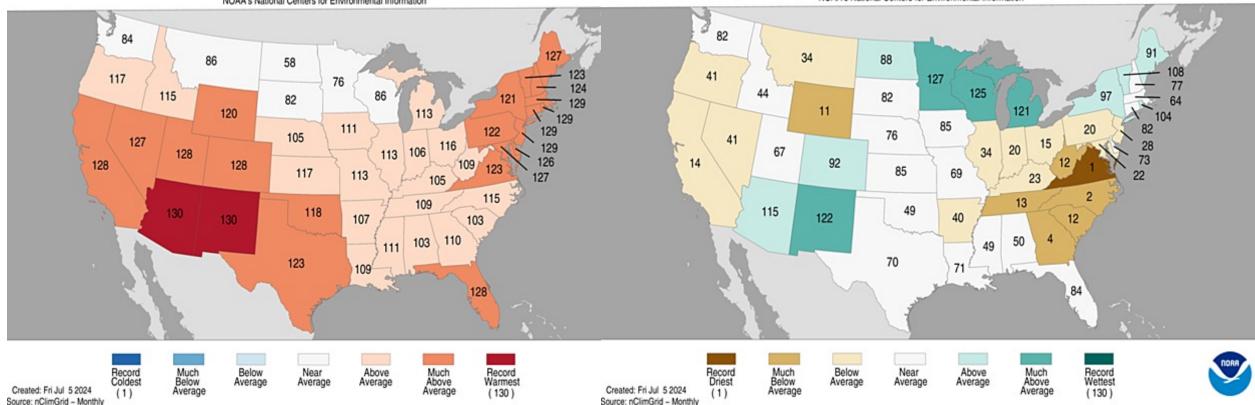
Statewide Average Temperature Ranks

June 2024 Ranking Period: 1895–2024



NOAA's National Centers for Environmental Information

Statewide Precipitation Ranks



- Temperature: 71.8°F/+3.4°F; 2nd warmest
- Precipitation: 2.74 inches/-0.18 inch; bit below average



Contiguous U.S. January-June 2024 The U.S. record dates back to 1895 (130 years)

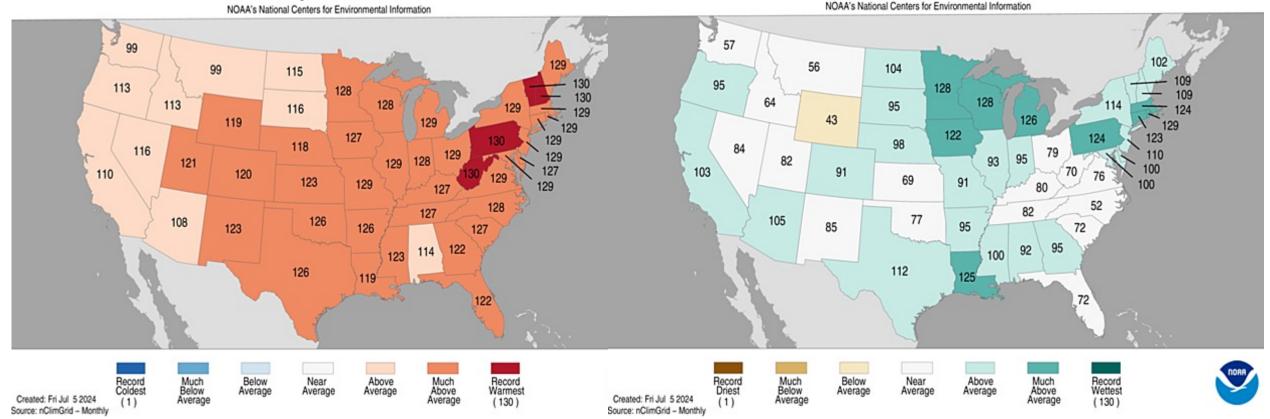
Statewide Average Temperature Ranks

January - June 2024

Ranking Period: 1895-2024

Statewide Precipitation Ranks

January - June 2024 Ranking Period: 1895-2024

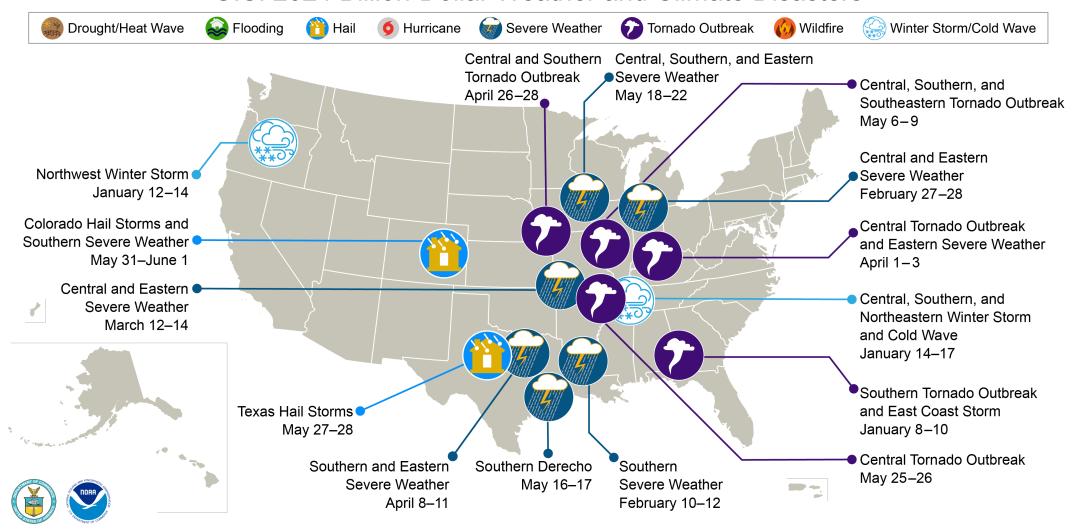


- Temperature: 50.9°F/+3.4°F; 2nd warmest
- Precipitation: 17.36 inches/+2.06 inches; 11th wettest



Billion \$ Disasters: 15 So Far This Year

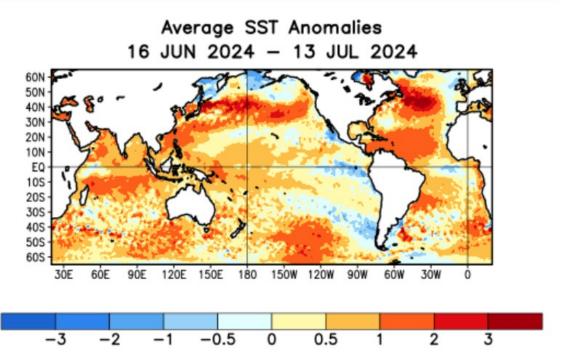
U.S. 2024 Billion-Dollar Weather and Climate Disasters





This map denotes the approximate location for each of the 15 separate billion-dollar weather and climate disasters that impacted the United States through June 2024.

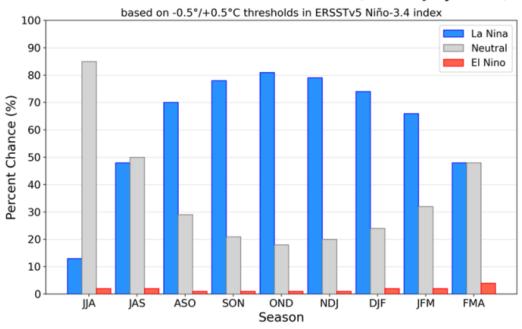
Sea Surface Temperatures and ENSO



Sea surface temperatures

- During the last four weeks, equatorial SSTs were above average across the west-central Pacific Ocean, around the Maritime Continent, and the Atlantic Ocean. Near-to-below-average SSTs were evident in the east-central and eastern Pacific Ocean.
- The oceanic and atmospheric observations currently reflect ENSOneutral conditions.

Official NOAA CPC ENSO Probabilities (issued July 2024)



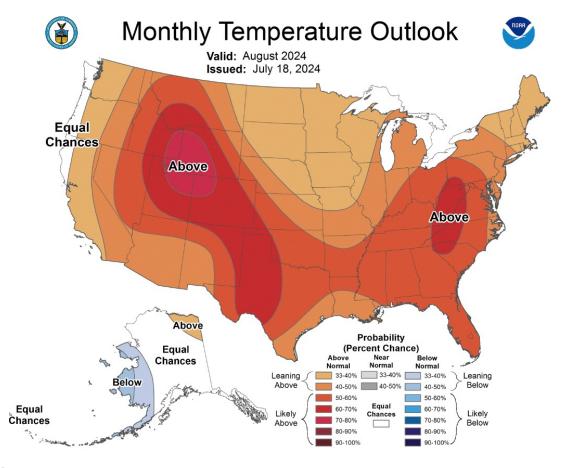
ENSO forecast

- We are currently under a La Niña Watch.
- La Niña is favored to develop during August-October (70% chance) and persist into the Northern Hemisphere winter 2024-25 (79% chance during November-January).

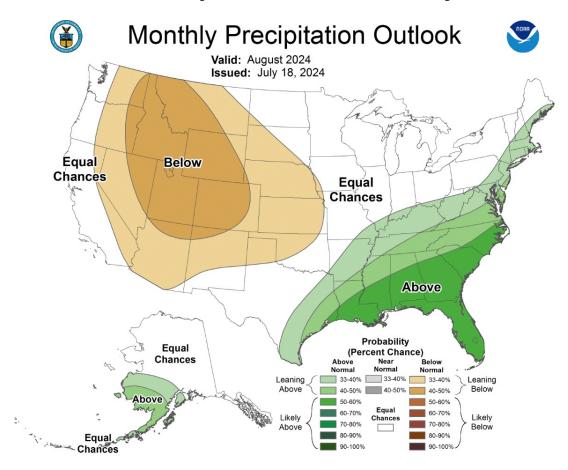


Monthly Forecast (August)

August Average Temperature Probability



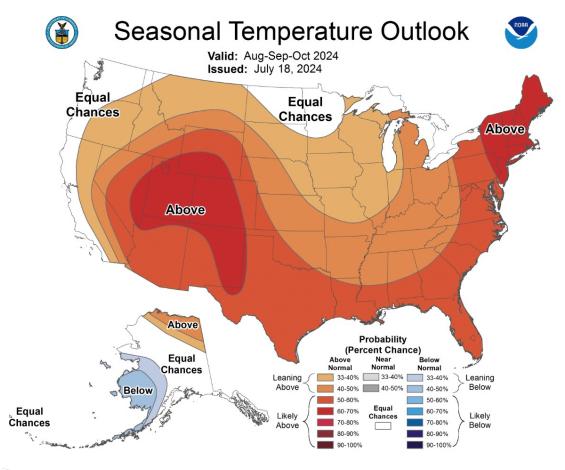
August Total Precipitation Probability



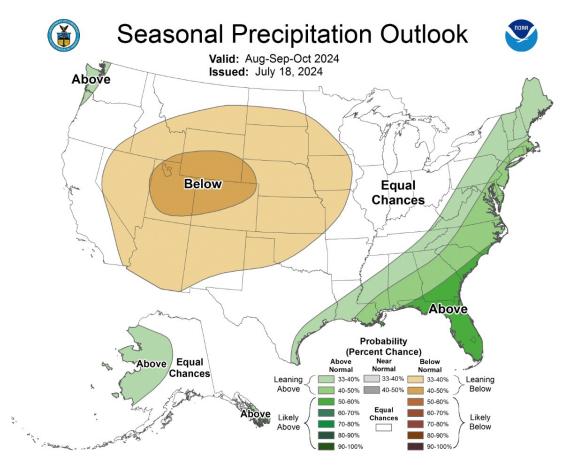


Three-Month Forecast (Aug, Sep, Oct)

Aug-Sept-Oct Average Temperature Probability

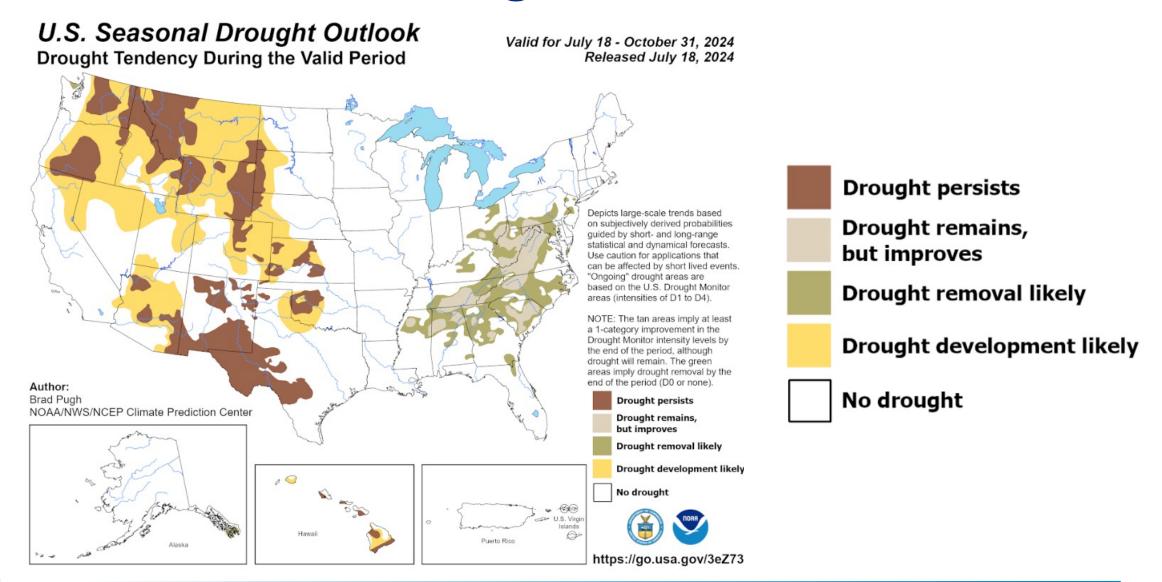


Aug-Sept-Oct Total Precipitation Probability





Drought Outlook





For More Information

Today's presentation:

• https://www.ncei.noaa.gov/access/monitoring/monthly-report/briefings

NOAA's National Centers for Environmental Information: www.ncei.noaa.gov/

- Monthly climate reports (U.S. & Global): https://www.ncei.noaa.gov/access/monitoring/monthly-report/
- Dates for upcoming reports: https://www.ncei.noaa.gov/access/monitoring/dyk/monthly-releases

NOAA's Climate Prediction Center: www.cpc.ncep.noaa.gov

U.S. Drought Monitor: www.drought.gov

Climate portal: www.climate.gov

NOAA media contacts: john.jones-bateman@noaa.gov, 202-424-0929 (NOAA/NESDIS PAO)

