Spring/Summer Weather Outlook

Water Quality Advisory Committee Meeting

March 30, 2023
2022 Rainfall Departure from Normal
Rainfall Departure from Normal Since January 1
Typical Wintertime La Niña Pattern
Typical Wintertime La Niña Pattern

La Niña Has Ended
March 2023: A Neutral Pacific is in Place
Pacific Waters are Warming

March 2023

October 2022
A Neutral Pacific this Spring; Headed to El Niño by Fall?

Official NOAA CPC ENSO Probabilities (issued Mar. 2023)

based on -0.5°/+0.5°C thresholds in ERSSTv5 Niño-3.4 index

Percent Chance (%)
Typical Fall/Wintertime El Niño Pattern
El Niño Forecast from Spring 2018

Mid-May IRI/CPC Model-Based Probabilistic ENSO Forecasts

- ENSO state based on NINO3.4 SST Anomaly
  - Neutral ENSO: -0.5 °C to 0.5 °C

Climatological Probability:
- Blue: La Nina
- Gray: Neutral
- Red: El Nino
Departure from Normal Rainfall
September through November 2018
Forecast Model Jet Stream for Spring
Spring Rain Outlook – Climate Forecast System Model

April

May
Spring Rain Outlook – European Model

ECMWF Seasonal [M] 0.75° (Oct 00) 1 Mar 2023 + QPF Anomaly (in.)
Valid: Apr 2023

ECMWF Seasonal [M] 0.75° (Oct 00) 1 Mar 2023 + QPF Anomaly (in.)
Valid: May 2023

April

May
National Oceanic and Atmospheric Administration’s Spring Outlook
Forecast Model Jet Stream for Summer
Summer Rain Outlook – CFS Model
Summer Rain Outlook – European Model

June

July

August
NOAA’s Summer Outlook

Seasonal Precipitation Outlook
Valid: Jun-Jul-Aug 2023
Issued: March 16, 2023

Seasonal Temperature Outlook
Valid: Jun-Jul-Aug 2023
Issued: March 16, 2023
CFS Rain Outlook for September
Spring Into Summer Outlook

• A neutral Pacific will be in place through spring and early summer

• It’s not exactly clear when the atmosphere and jet stream will respond to the end of La Niña

• Slightly below-normal rain forecast for March

• Near-normal rainfall forecast April through June

• Summer 2023 is not expected to be as hot or as dry as last summer

• Strong odds for the development of El Niño by fall