Global Temperature
The global temperature record dates back to 1880 (142 years)

April 2021
• Global Land & Ocean: +0.79°C / +1.42°F; 9th warmest on record, coldest since 2013.
• Global Land: +1.25°C / +2.25°F; 12th warmest on record.
• Global Ocean: +0.62°C / +1.12°F; 8th warmest on record.

Year to Date 2021
• Global Land & Ocean: +0.77°C / +1.39°F; 8th warmest on record, coldest since 2014.
• Global Land: +1.27°C / +2.29°F; 10th warmest on record.
• Global Ocean: +0.57°C / +1.03°F; 8th warmest on record.
Global Temperature
The global temperature record dates back to 1880 (142 years)

Year-to-Date Global Temperatures
for 2021 and the ten warmest years on record

January–April 2021
2021 currently has a ...
- <1% chance of being warmest
- <4% chance of being in the top 5
- >99% chance of being in the top 10
Contiguous U.S. April 2021

**Temperature:** 51.9°F, +0.9°F, “near average”
**Precipitation:** 2.03”, -0.49”, 14th driest April

- Above average across much of the West Coast, Southwest, Northeast, Great Lakes, parts of South
- Below average across much of the Southern and Northern Great Plains, South, and Southeast
- Near-average for Alaska (cooler in interior, warmer in Aleutians)

- Majority of Lower 48 below average; Oregon 3rd driest, California 5th driest
- Above average over parts of Great Lakes, New England, Midwest, Southern Plains, and Gulf Coast
- Above average for Alaska as a whole
Contiguous U.S. January-April 2021

Temperature: 40.7°F, +1.6°F, warmest third of record
Precipitation: 8.63”, -0.85”, driest third of record

Temperature Percentiles Jan-Apr 2021
Period: 1895–2021 (127 years)

- Above average over much of the West, Northern Great Plains, Great Lakes, Northeast, and Southeast
- Below average across portions of the Southern Great Plains
- Alaska near average as a whole (warmer over Bristol Bay and Aleutians)

Precipitation Percentiles Jan-Apr 2021
Period: 1895–2021 (127 years)

- Below average across the West, Northern Great Plains and from the eastern Great Lakes through New England
- Above average over the central Great Plains and parts of the Southeast and Gulf Coast
- Above average in Alaska
Current U.S. Drought

47% of Contiguous U.S. in Drought

(↑ 2 percentage points since mid-April)

• Improvement
Parts of the Northeast, eastern Texas, and southern Florida

• Degradation
Pacific Northwest, Upper Great Plains, coastal Carolinas

• Outside CONUS
No significant change across Alaska; some degradation in Hawaii and Puerto Rico
Precipitation Since October 1st

Average to date

Percent of average to date

Departure from normal
Anomally Low Streamflow

Map of real-time streamflow compared to historical streamflow for the day of the year (California)
Anomally Low Streamflow

Map of real-time streamflow compared to historical streamflow for the day of the year (Nevada)

Explanation - Percentile classes

<table>
<thead>
<tr>
<th>Low</th>
<th>&lt;10</th>
<th>10-24</th>
<th>25-75</th>
<th>76-90</th>
<th>&gt;90</th>
<th>High</th>
<th>Not-ranked</th>
</tr>
</thead>
<tbody>
<tr>
<td>Much below normal</td>
<td>Below normal</td>
<td>Normal</td>
<td>Above normal</td>
<td>Much above normal</td>
<td>High</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Thursday, May 20, 2021
Low Reservoir Storage

**CURRENT CONDITIONS FOR MAJOR RESERVOIRS: 18-MAY-2021**

Data as of Midnight: 18-May-2021

- **Trinity**: 2448 (93%) 93% (Real Cap)
- **Shasta**: 2492 (62%) 62% (Historical Avg)
- **Oroville**: 3357 (53%) 53% (Historical Avg)
- **Folsom**: 1203 (38%) 38% (Real Cap)
- **Melones**: 1840 (58%) 58% (Real Cap)
- **San Luis**: 1690 (47%) 47% (Real Cap)
- **Millerton**: 1459 (49%) 49% (Real Cap)
- **Perris**: 1157 (96%) 96% (Real Cap)
- **Castaic**: 1160 (71%) 71% (Real Cap)
- **Pine Flat**: 1160 (39%) 39% (Real Cap)

**LEGEND**
- **Blue Bar**: Storage level for date
- **Red Line**: Total reservoir capacity
- **Historical Avg Mark**: Historic level for date
- **% of Capacity / % Historical Avg**: (Click reservoir name for details)

**TOP OF CONSERVATION CONDITIONS FOR CENTRAL VALLEY AND RUSSIAN RIVER FLOOD CONTROL RESERVOIRS: 18-MAY-2021**

Data as of Midnight: 18-May-2021

- **Sacramento**: 2,492 CFS
- **San Joaquin**: 2,028 CFS
- **Yuba**: 1,809 CFS
- **American**: 1,489 CFS
- **Napa**: 1,229 CFS
- **Klamath**: 1,450 CFS

**LEGEND**
- **Blue Bar**: Storage level for date
- **Gold Bar**: Total reservoir capacity
- **Red Line**: Top of Conservation
- **Daily inflow (CFS)**
- **Capacity (TAF)**
- **% of Capacity**: (Click reservoir name for details)
Projected Runoff

CENTRAL VALLEY - WATER RESOURCES INDEX (MLIC0)
Sacramento River - Bend Bridges (BOBIC1)
Feather River - Lake Oroville (ORDC1)
Yuba River - Englebright Reservoir (HLEC1)
American River - Folsom Lake (FOLC1)
San Joaquin River - Millerton Reservoir (FRAIC1)
Merced River - Escholapur Reservoir (EXDC1)
Tuolumne River - New Don Pedro Reservoir (NDPCC1)
Stanislaus River - New Melones Reservoir (NMSC1)

Issuance Time: May 19, 2021 at 8:44 AM PDT

PRODUCT NOTE: Ensemble forecasts produced by CNRFC only consider meteorological uncertainty and do not account for hydrologic uncertainty.

2021 Multi-Year Accumulated Volume Plot

Central Valley Water Board (MLIC0) 05/19/2021
Median Forecast: 20756,493.5 - 134.2 - 5 - 3%
Credited: 05/21/2021 at 06:54 AM PDT

Observed to Date Percent of Mean: 45% (18,800,1af)
Water Year to Date Percent: 2150,4% (11,500,1af)

This product only considers meteorological uncertainty and does not account for hydrologic uncertainty.

Legend entries below can be toggled on/off:

- Annual Flow
- 2-Year Mean

Historical Flows

Water Year

Annual Flow

2-Year Mean

<table>
<thead>
<tr>
<th>Rank</th>
<th>Year</th>
<th>Annual Flow</th>
<th>2-Year Mean</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1971</td>
<td>9,674.4</td>
<td>9,675.0</td>
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<td>12,190.9</td>
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<td>2021</td>
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<td>12,727.1</td>
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<td>1982</td>
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<td>6</td>
<td>1914</td>
<td>10,014.3</td>
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<tr>
<td>7</td>
<td>1901</td>
<td>10,505.4</td>
<td>11,591.4</td>
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<td>8</td>
<td>2014</td>
<td>9,160.6</td>
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<td>10,705.4</td>
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<tr>
<td>10</td>
<td>2012</td>
<td>11,505.4</td>
<td>12,277.2</td>
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</tbody>
</table>
Sea Surface Temperatures and ENSO

- **Sea surface temperatures**
  - Negative anomalies became smaller recently across the central and eastern equatorial Pacific
  - La Niña has ended
  - The oceanic and atmospheric observations currently reflect ENSO-neutral conditions

- **ENSO forecast**
  - ENSO-neutral conditions are likely to persist through the summer
  - An increasing chance of a return of La Niña exists during the fall and winter 2021-2022
Monthly Forecast (June)

June Average
Temperature Probability

June Total
Precipitation Probability
Three-month Forecast (Jun, Jul, Aug)

Jun-Jul-Aug Average Temperature Probability

Jun-Jul-Aug Total Precipitation Probability
U.S. Seasonal Drought Outlook
Drought Tendency During the Valid Period

Valid for April 15 - July 31, 2021
Released April 15

Author: Brad Pugh
NOAA/NWS/NCEP/Climate Prediction Center

Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short-lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

http://go.usa.gov/3eZ73
For More Information

TODAY’S PRESENTATION:

- http://www.ncdc.noaa.gov/sotc/briefings

NOAA’s National Centers for Environmental Information: www.ncdc.noaa.gov

- Dates for upcoming reports: http://www.ncdc.noaa.gov/monitoring-references/dyk/monthly-releases

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

California Nevada River Forecast Center: https://www.cnrfc.noaa.gov/

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

Climate Portal: www.climate.gov

NOAA Media Contacts: john.jones-bateman@noaa.gov, 301-713-9604 (NOAA/NESDIS PAO)