



### Synopsis

June 2022 was an interesting month, with dry weather and record breaking heat through the first half followed by an early monsoon onset with record rainfall and flash flooding. A severe weather event on June 7<sup>th</sup> and 8<sup>th</sup> produced hail and high winds across parts of eastern NM. Tucumcari set an all-time record high temperature of 112° on June 11<sup>th</sup>. A record moisture surge for mid to late June then brought widespread moderate to locally heavy rainfall beginning around June 16<sup>th</sup>. Many locations reported 2 to 4" for the last two weeks of June with parts of western NM picking of 4 to 7". A few locations established new monthly records for wettest June on record.



Hail 6/8 | Ute Park  
Photo courtesy Stephanie (via twitter)



Flooding Roswell 6/26 - Photo courtesy Jim Tucker



Landspout Tornado 6/7 | near Maes, NM  
Photo courtesy Brian McCaleb

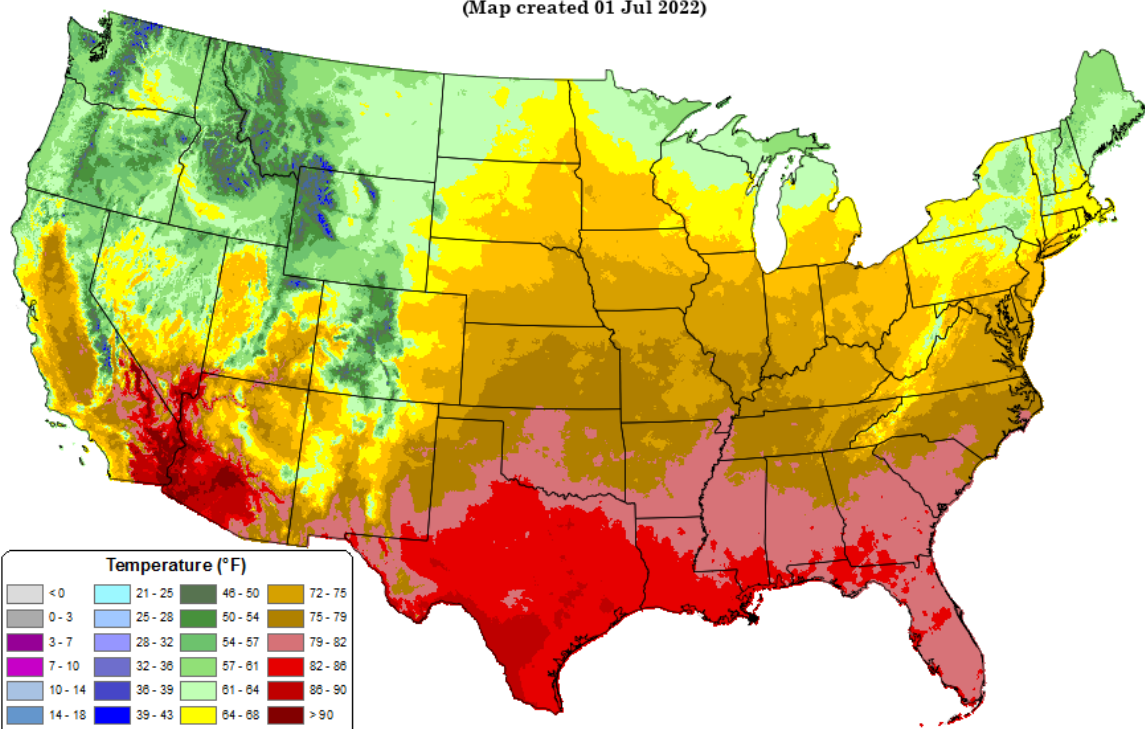


Hermits Peak-Calf Canyon 6/5 | near Pendaries, NM  
Photo courtesy Tom Bird

**Actual**

**Average Daily Mean Temperature: 01 Jun 2022 - 30 Jun 2022**

Period ending 7 AM EST 30 Jun 2022  
(Map created 01 Jul 2022)

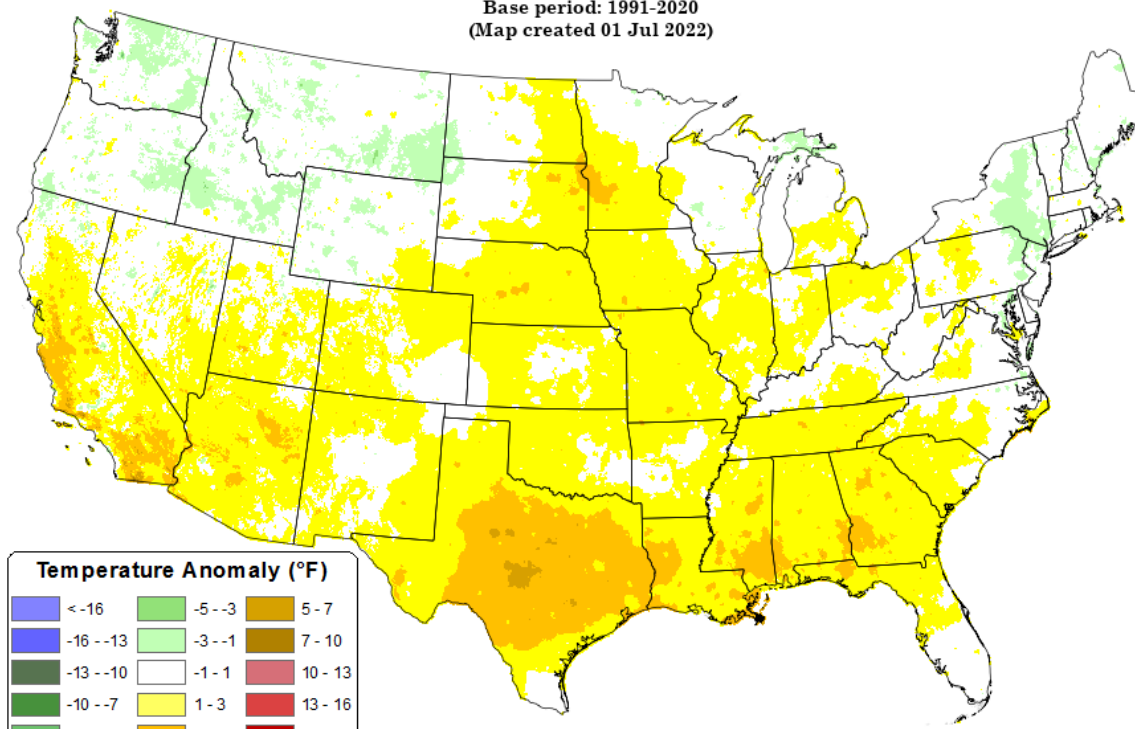


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**Anomaly**

**Daily Mean Temperature Anomaly: 01 Jun 2022 - 30 Jun 2022**

Period ending 7 AM EST 30 Jun 2022  
Base period: 1991-2020  
(Map created 01 Jul 2022)



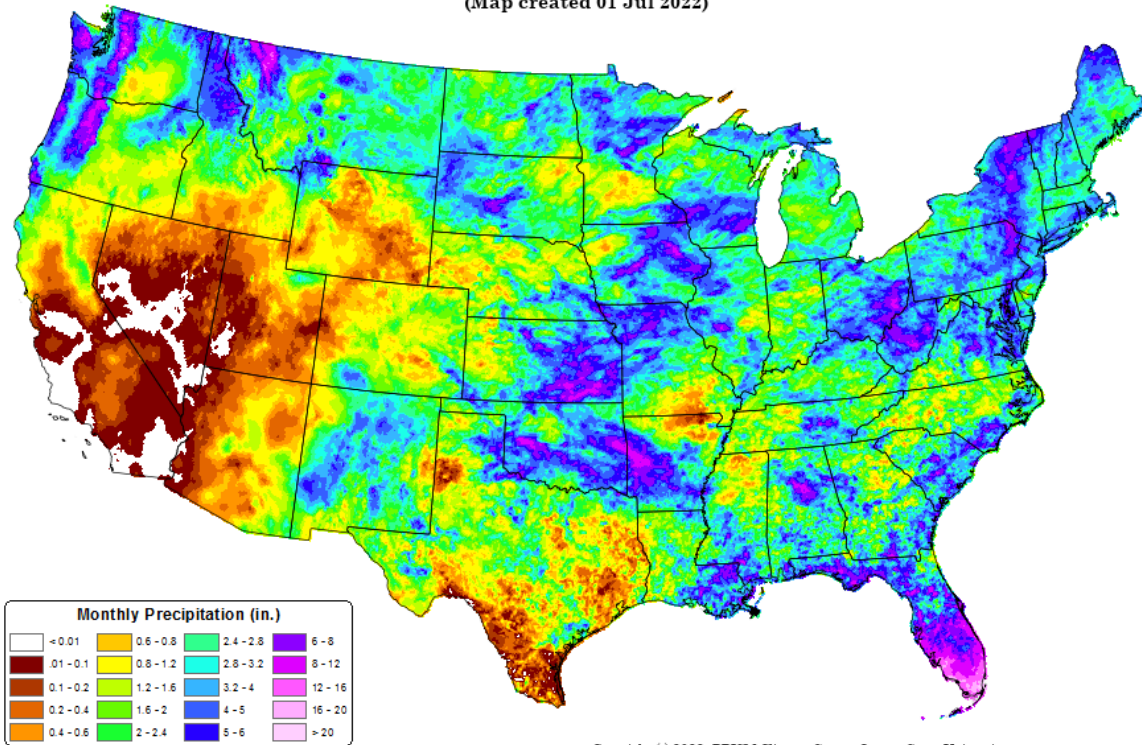
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Temperatures averaged near to above normal through June. The first half of the month was hot with record breaking heat. The second half of June was mostly below normal due to the early onset of the 2022 summer monsoon.



**Actual**

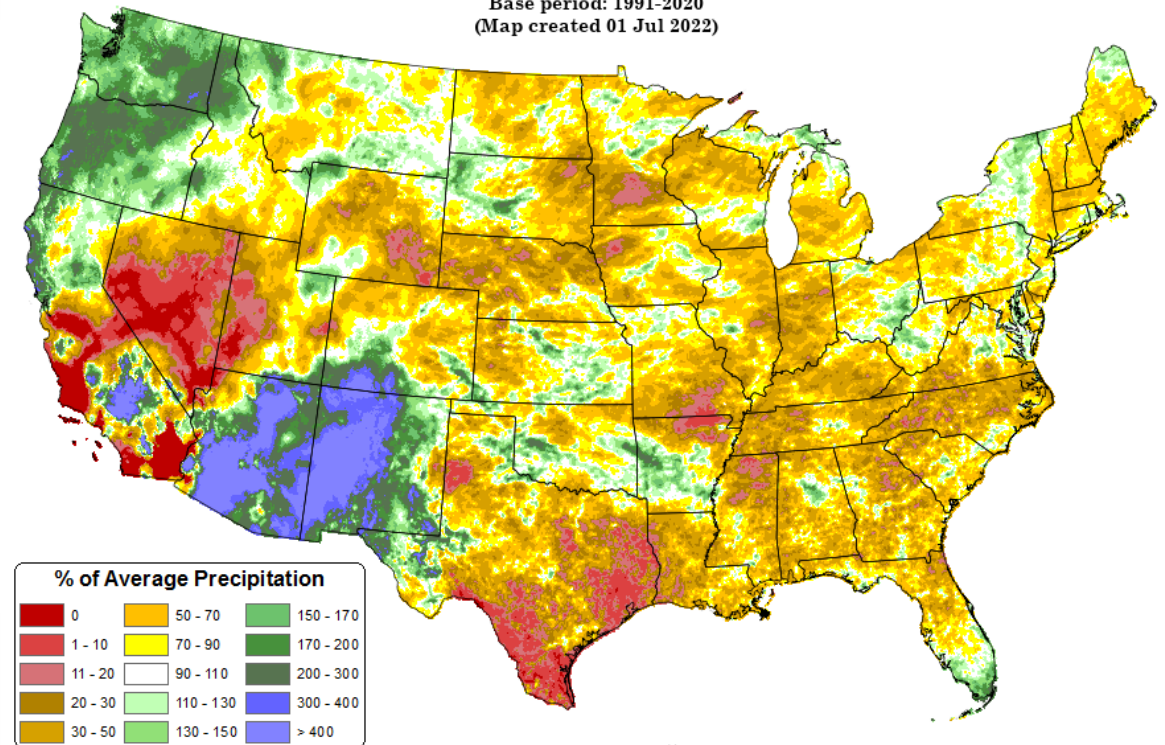
**Total Precipitation: 01 Jun 2022 - 30 Jun 2022**  
 Period ending 7 AM EST 30 Jun 2022  
 (Map created 01 Jul 2022)



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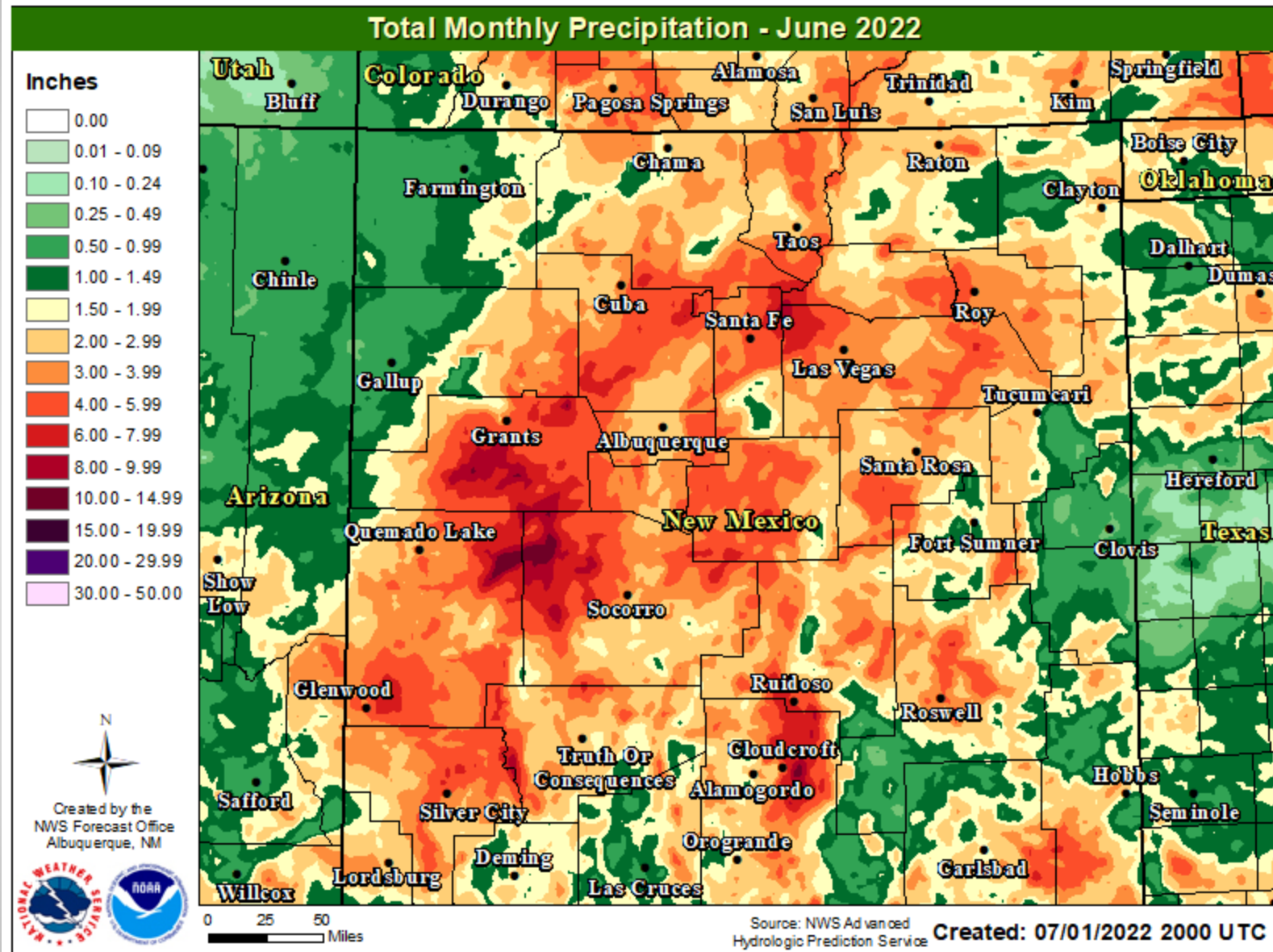
**Anomaly**

**Total Precipitation Anomaly: 01 Jun 2022 - 30 Jun 2022**  
 Period ending 7 AM EST 30 Jun 2022  
 Base period: 1991-2020  
 (Map created 01 Jul 2022)



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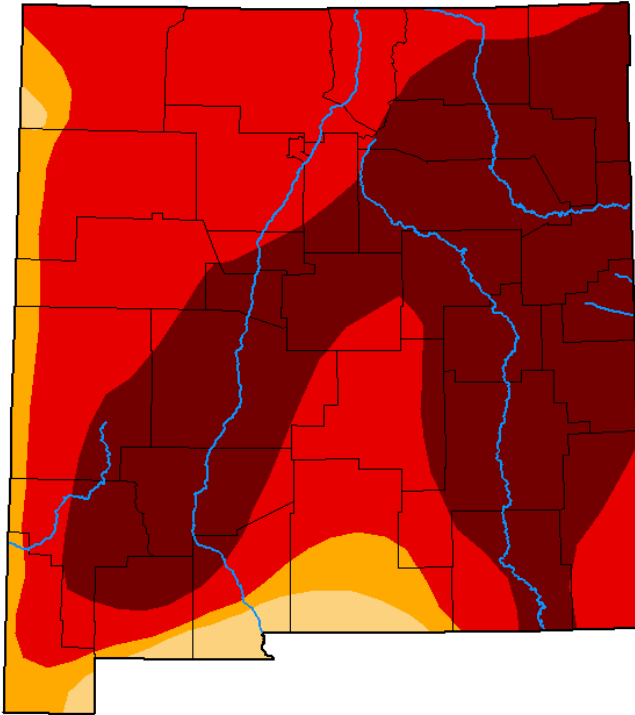
It's hard to imagine the first half of June was bone dry across the western half of New Mexico. But the early onset of the 2022 monsoon season arrived around the 18<sup>th</sup>, delivering heavy rains and significant flash flooding, including on the recent burn scars. Rain amounts were 300 to 400 percent of normal!



Here is a more detailed image of the June 2022 precipitation.



**U.S. Drought Monitor  
New Mexico**



**June 7, 2022**

(Released Thursday, Jun. 9, 2022)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	0.00	100.00	100.00	97.18	90.06	46.76
<b>Last Week</b> 05-31-2022	0.00	100.00	99.26	97.20	90.06	45.84
<b>3 Months Ago</b> 03-08-2022	0.00	100.00	98.92	85.09	34.52	3.85
<b>Start of Calendar Year</b> 01-04-2022	0.00	100.00	97.83	75.86	20.91	0.00
<b>Start of Water Year</b> 09-28-2021	10.70	89.30	79.47	49.33	19.12	0.00
<b>One Year Ago</b> 06-08-2021	2.06	97.94	93.41	88.82	64.76	33.26

Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

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>

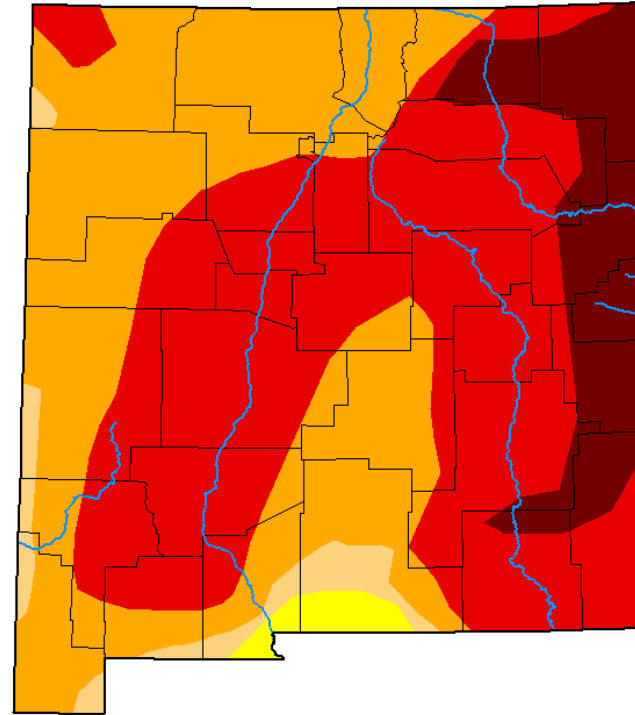
Author:

Brad Pugh  
CPC/NOAA



[droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)

**U.S. Drought Monitor  
New Mexico**



**June 28, 2022**

(Released Thursday, Jun. 30, 2022)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	0.00	100.00	98.50	95.18	58.38	11.79
<b>Last Week</b> 06-21-2022	0.00	100.00	100.00	97.41	90.45	52.17
<b>3 Months Ago</b> 03-29-2022	0.06	99.94	98.89	91.19	43.84	5.53
<b>Start of Calendar Year</b> 01-04-2022	0.00	100.00	97.83	75.86	20.91	0.00
<b>Start of Water Year</b> 09-28-2021	10.70	89.30	79.47	49.33	19.12	0.00
<b>One Year Ago</b> 06-29-2021	1.04	98.96	92.88	84.87	58.80	30.47

Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
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National Drought Mitigation Center



[droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)

Drought conditions in June improved substantially, as well above normal and record-breaking rainfall fell over western and central New Mexico. Most areas improved one whole drought category. The combined D3-D4 (extreme to exceptional) covered 90 percent of the state in early June. That decreased to 58 percent by late June.

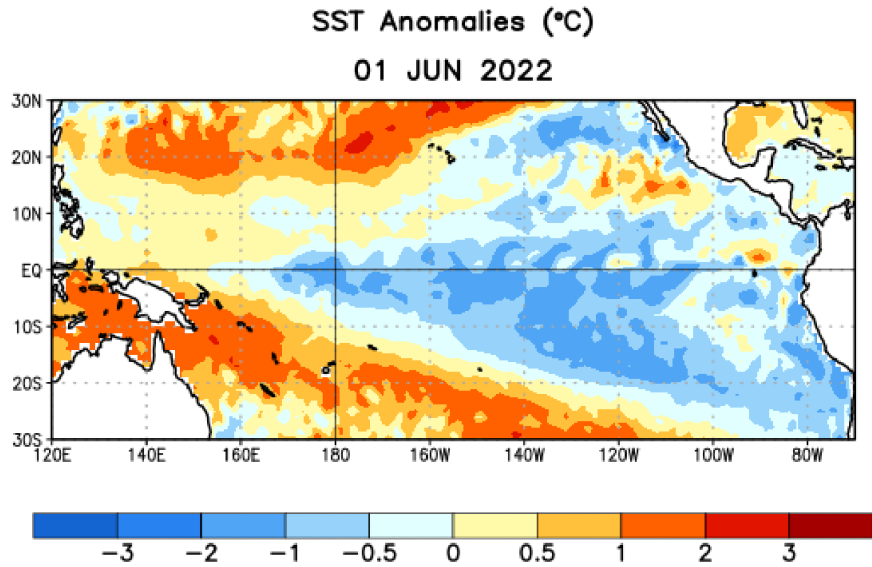


Figure 1. Average sea surface temperature (SST) anomalies (°C) for the week centered on 1 June 2022. Anomalies are computed with respect to the 1991-2020 base period weekly means.

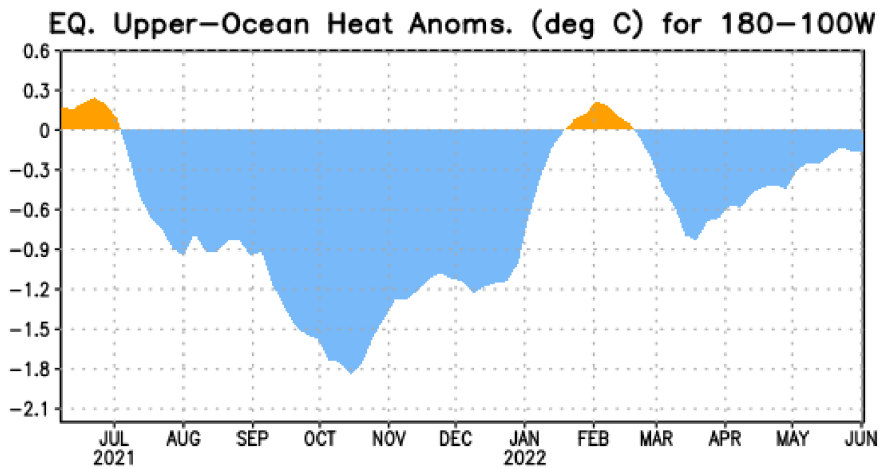


Figure 3. Area-averaged upper-ocean heat content anomaly (°C) in the equatorial Pacific (5°N-5°S, 180°-100°W). The heat content anomaly is computed as the departure from the 1991-2020 base period pentad means.

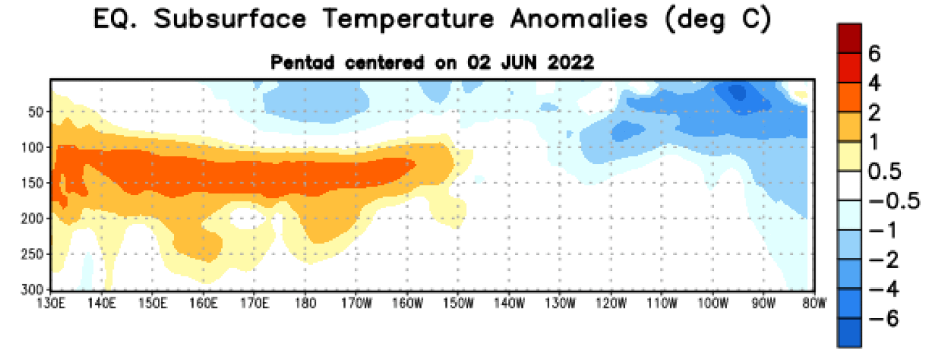


Figure 4. Depth-longitude section of equatorial Pacific upper-ocean (0-300m) temperature anomalies (°C) centered on the pentad of 2 June 2022. Anomalies are departures from the 1991-2020 base period pentad means.

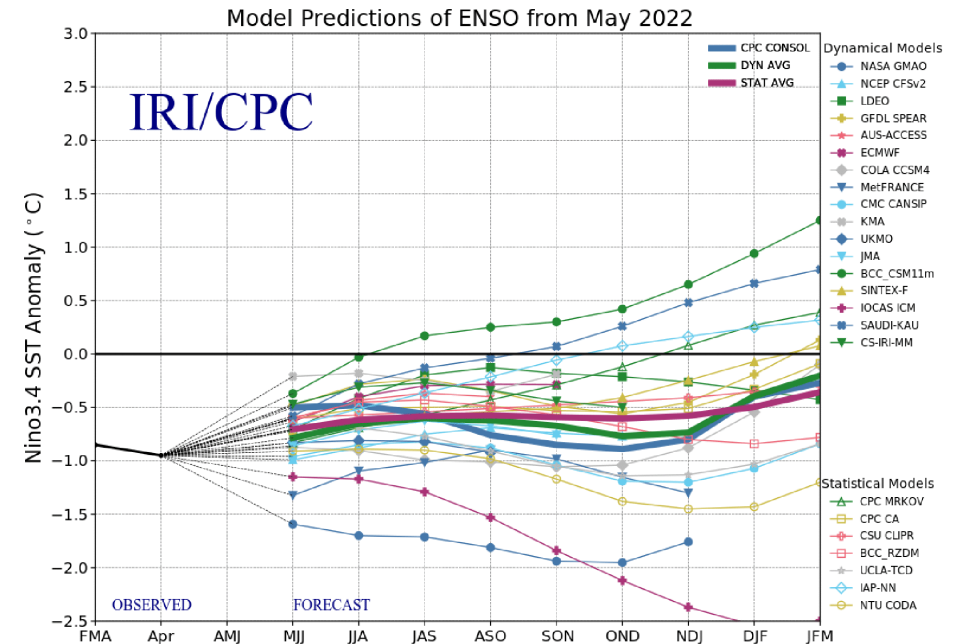
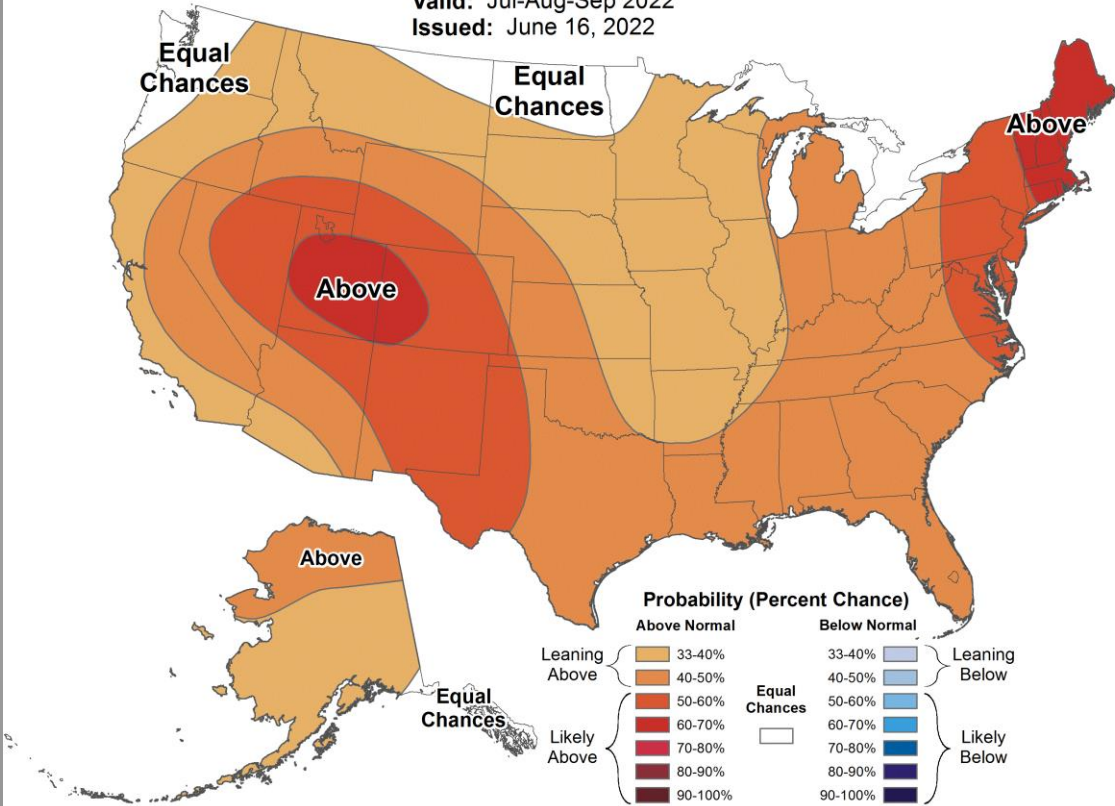


Figure 6. Forecasts of sea surface temperature (SST) anomalies for the Niño 3.4 region (5°N-5°S, 120°W-170°W). Figure updated 19 May 2022.

## Temperature July-August-September

### Seasonal Temperature Outlook

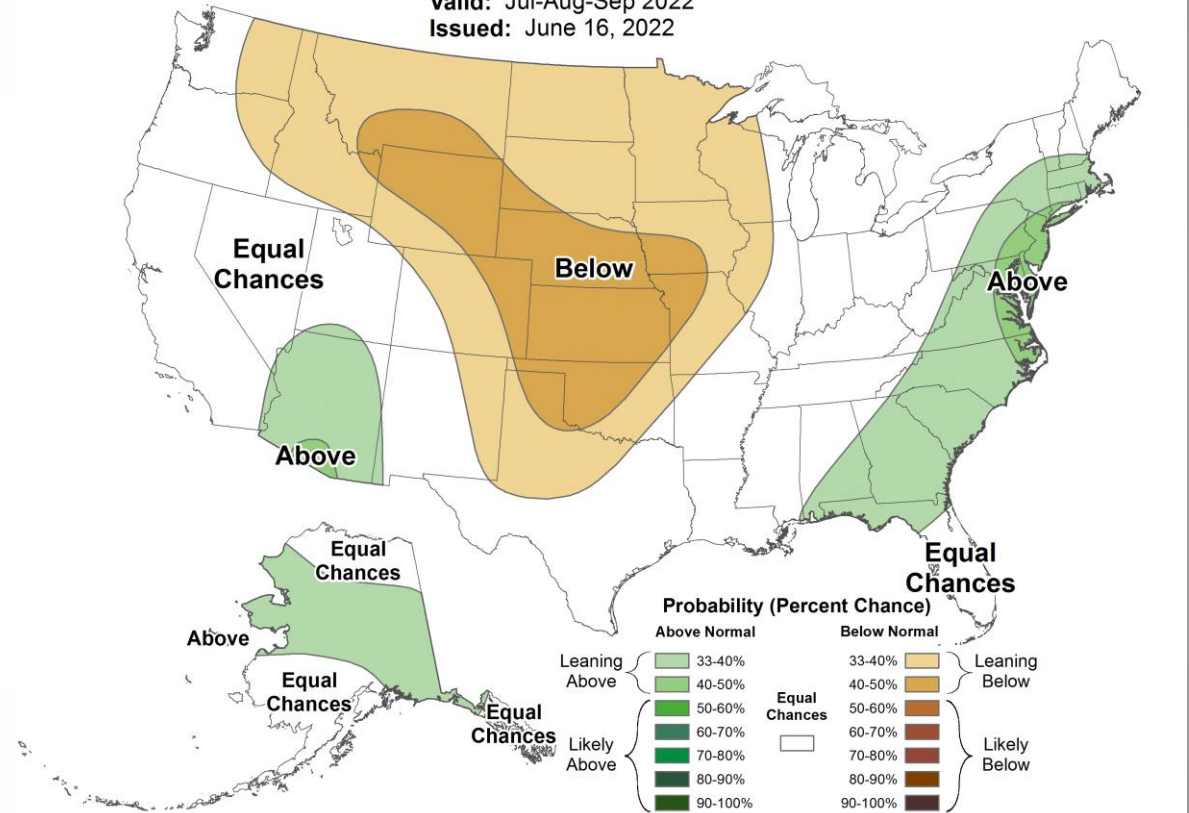
Valid: Jul-Aug-Sep 2022  
Issued: June 16, 2022



## Precipitation July-August-September

### Seasonal Precipitation Outlook

Valid: Jul-Aug-Sep 2022  
Issued: June 16, 2022



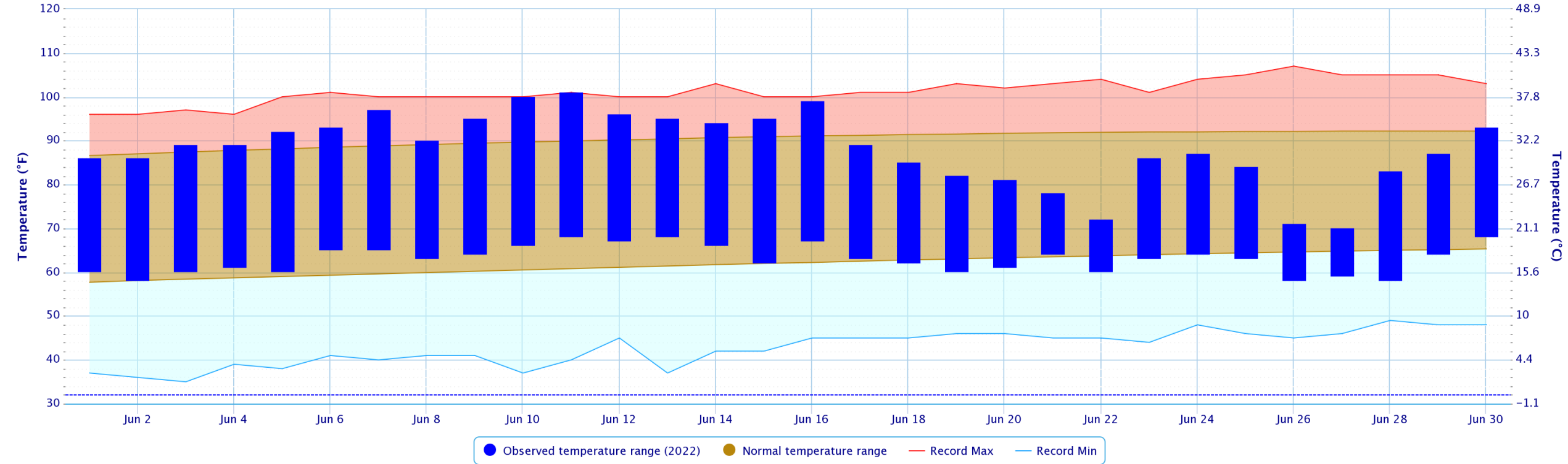
Above normal temperatures continue to be the most likely weather scheme for the later summer/early fall seasons in New Mexico. There is not much of a signal for precipitation, with the northeast having a slight tendency for below normal precipitation, while the far southwest may favor slightly above normal.



Average Temperature: 75.5°

Daily Temperature Data – ALBUQUERQUE INTL AP, NM

Period of Record – 1891-12-01 to 2022-06-30. Normals period: 1991-2020. Click and drag to zoom chart.



The June 2022 average temperature for Albuquerque was 75.5°, which was 0.6° below the normal of 76.1°. The average maximum temperature for the month was 88.2°. This was 2.2° below the normal average maximum temperature of 90.4°. The average minimum temperature for the month was 62.9°. This was 1.0° above the normal average minimum temperature of 61.9°. This ranked as a tie for the 90<sup>th</sup> coolest June on record.

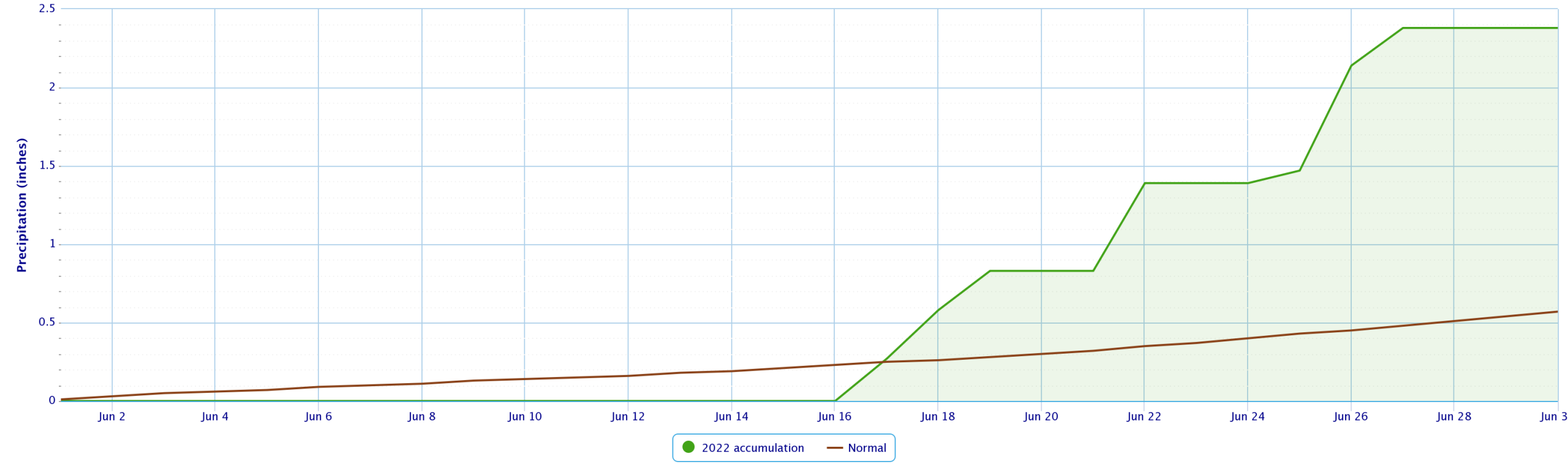




Precipitation: 2.38"

### Accumulated Precipitation – ALBUQUERQUE INTL AP, NM

Click and drag to zoom to a shorter time interval; green/black diamonds represent subsequent/missing values



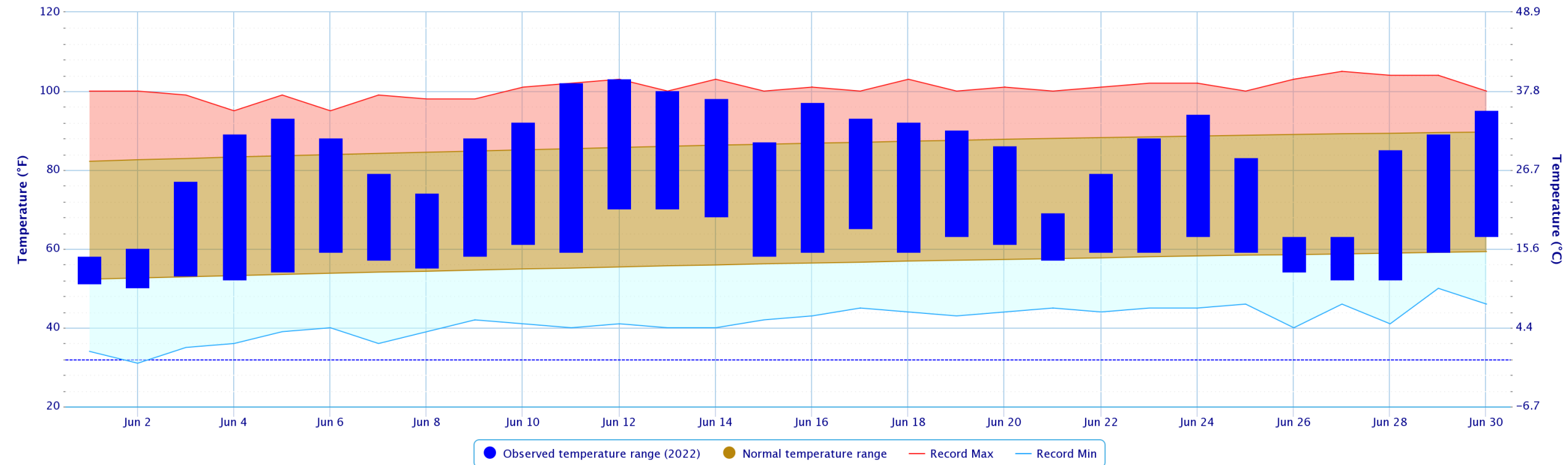
The June 2022 precipitation for Albuquerque was 2.38", which was 1.81" above the normal of 0.57". This ranked as the 6<sup>th</sup> wettest June on record.



Average Temperature: 71.9°

## Daily Temperature Data – CLAYTON MUNICIPAL AIR PARK, NM

Period of Record – 1896-02-01 to 2022-06-30. Normals period: 1991-2020. Click and drag to zoom chart.



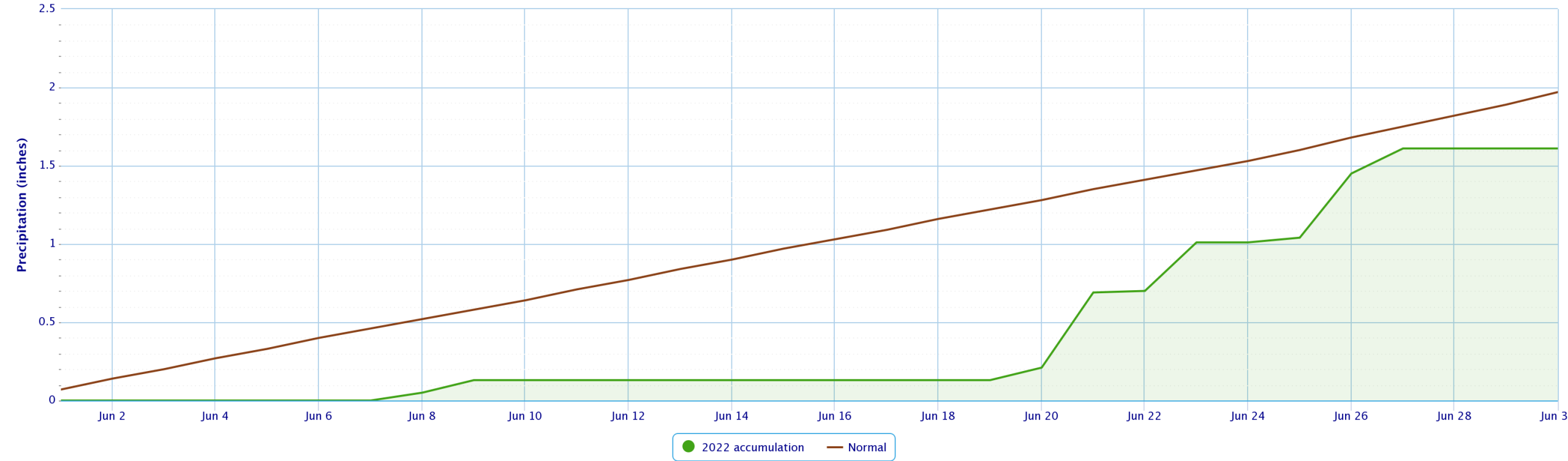
The June 2022 average temperature for Clayton was 71.9°, which was 0.7° above the normal of 71.2°. The average maximum temperature for the month was 85.1°. This was 1.3° below the normal average maximum temperature of 86.4°. The average minimum temperature for the month was 58.6°. This was 2.5° above the normal average minimum temperature of 56.1°. This ranked as the 34<sup>th</sup> warmest June on record.



Precipitation: 1.61"

## Accumulated Precipitation – CLAYTON MUNICIPAL AIR PARK, NM

Click and drag to zoom to a shorter time interval; green/black diamonds represent subsequent/missing values



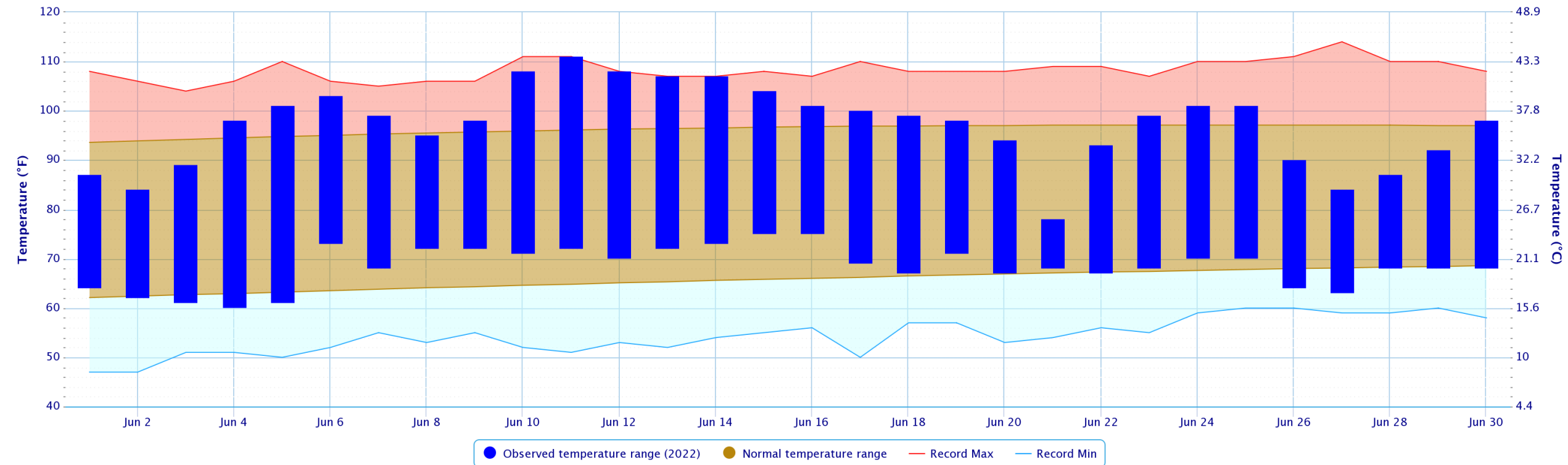
The June 2022 precipitation for Clayton was 1.61", which was 0.36" below the normal of 1.97". This ranked as the 61<sup>st</sup> driest June on record.



Average Temperature: 82.7°

Daily Temperature Data – ROSWELL INDUSTRIAL AIR PARK, NM

Period of Record – 1946-12-01 to 2022-06-30. Normals period: 1991-2020. Click and drag to zoom chart.



Powered by ACIS

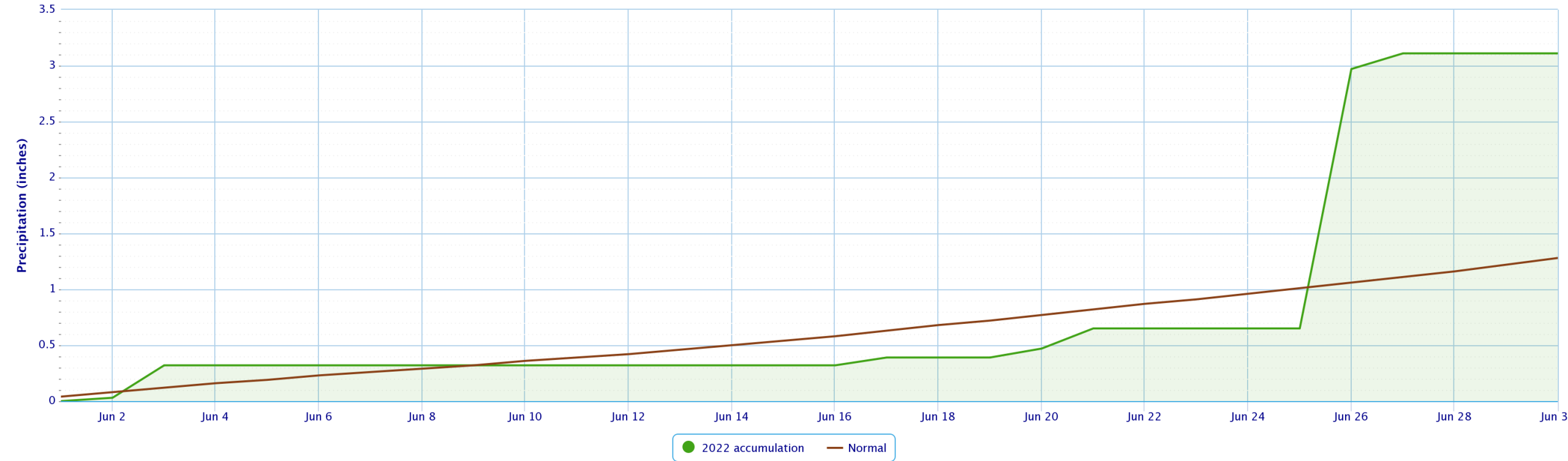
The June 2022 average temperature for Roswell was 82.7°, which was 1.7° above the normal of 81.0°. The average maximum temperature for the month was 97.1°. This was 0.9° above the average maximum temperature of 96.2°. The average minimum temperature for the month was 68.3°. This was 2.6° above the normal average minimum temperature of 65.7°. This ranked as the 8<sup>th</sup> warmest June on record.



Precipitation: 3.11"

## Accumulated Precipitation – ROSWELL INDUSTRIAL AIR PARK, NM

Click and drag to zoom to a shorter time interval; green/black diamonds represent subsequent/missing values



The June 2022 precipitation for Roswell was 3.11", which was 1.83" above the normal of 1.28". This ranked as the 10<sup>th</sup> wettest June on record.



Event Type	Begin Date	County/Zone Name	Magnitude	Type	Event Narrative
High Wind	6/1/2022	Middle RGV/ABQ Metro Area	51 kt	Gust	The Albuquerque Sunport measured a peak wind gust of 59 mph.
Hail	6/2/2022	Socorro	1"		Gran Quivira reported quarter size hail with a severe thunderstorm.
Hail	6/2/2022	Torrance	1:00		Cedarvale reported quarter size hail with a severe thunderstorm.
Hail	6/2/2022	Lincoln	0.75"		Ancho reported penny size hail from a strong thunderstorm.
Thunderstorm Wind	6/2/2022	Socorro	56 kt	Gust	A WSMR station southeast of Bosque del Apache measured a 64 mph wind gust.
Thunderstorm Wind	6/2/2022	Socorro	63 kt	Gust	A WSMR station southeast of Bosque del Apache measured a 73 mph wind gust.
Thunderstorm Wind	6/2/2022	Socorro	57 kt	Gust	A WSMR station south of Bingham measured a 66 mph wind gust.
Hail	6/3/2022	Chaves	1"		Quarter size hail reported from a severe thunderstorm along U.S. Highway 82 near Dunken.
Hail	6/3/2022	Chaves	0.75"		Penny size hail reported along U.S. Highway 82 near Dunken.
Hail	6/3/2022	De Baca	1.75"		Yeso reported golf-ball size hail that lasted about five minutes .
Thunderstorm Wind	6/3/2022	Harding	51 kt	Gust	Mills reported a 59 mph thunderstorm wind gust.
Hail	6/7/2022	Mora	0.88"		Wagon Mound reported nickel size hail.
Tornado	6/7/2022	Mora			Brief, weak landspout tornado over open rangeland near Maes. No damage was reported.
Hail	6/7/2022	Harding	1"		Quarter size hail reported near Mosquero.
Hail	6/7/2022	Harding	1"		Roy reported quarter size hail.
Hail	6/7/2022	San Miguel	1"		Mosquero reported quarter size hail.
Hail	6/7/2022	San Miguel	2.75"		Bell Ranch reported baseball size hail with damage to residence and vehicles.
Hail	6/7/2022	Quay	1"		Ute Lake State Park reported quarter size hail.
Thunderstorm Wind	6/7/2022	Quay	50 kt	Gust	Tucumcari measured a 58 mph thunderstorm wind gust.
Hail	6/8/2022	Sandoval	1"		San Ysidro reported quarter size hail.
Hail	6/8/2022	Colfax	1.25"		Half dollar size hail reported along U.S. Highway 64 near Cimarron Canyon.
Thunderstorm Wind	6/8/2022	Socorro	51 kt	Gust	A WSMR station southeast of Bosque del Apache measured a 59 mph thunderstorm wind gust.
Thunderstorm Wind	6/8/2022	Socorro	55 kt	Gust	A WSMR station southeast of Bosque del Apache measured a 63 mph thunderstorm wind gust.
Thunderstorm Wind	6/8/2022	Socorro	51 kt	Gust	A WSMR station southeast of Bosque del Apache measured a 59 mph thunderstorm wind gust.
Thunderstorm Wind	6/8/2022	Socorro	51 kt	Gust	A WSMR station southeast of Bosque del Apache measured a 59 mph thunderstorm wind gust.
Thunderstorm Wind	6/11/2022	San Miguel	51 kt	Gust	Las Vegas measured a wind gust of 59 mph.
Excessive Heat	6/11/2022	Chaves County Plains			Roswell measured a high temperature of 111°F .
Excessive Heat	6/11/2022	Quay County			Tucumcari measured an all-time record high temperature of 112° F.





\*Storm reports are considered preliminary until a final review is certified in the NWS Storm Data publication. Certified data is available three to four months post-event at: <https://www.ncdc.noaa.gov/stormevents/>



Event Type	Begin Date	County/Zone Name	Magnitude	Type	Event Narrative
Thunderstorm Wind	6/12/2022	De Baca	56 kt	Gust	Fort Sumner measured a 64 mph wind gust with damage to trees.
Thunderstorm Wind	6/12/2022	De Baca	57 kt	Gust	The Columbia Scientific Balloon Facility measured a 66 mph wind gust.
Thunderstorm Wind	6/12/2022	Quay	53 kt	Gust	Tucumcari measured a 61 mph wind gust.
High Wind	6/13/2022	West Central Plateau	51 kt	Gust	Gallup measured a 59 mph non-thunderstorm wind gust.
Thunderstorm Wind	6/13/2022	Union	51 kt	Gust	Clayton measured a 59 mph wind gust.
Thunderstorm Wind	6/13/2022	Mora	55 kt	Gust	Mora measured a peak wind gust of 63 mph.
Thunderstorm Wind	6/13/2022	Bernalillo	56 kt	Gust	Double Eagle Airport measured a peak wind gust of 65 mph.
Thunderstorm Wind	6/13/2022	Socorro	52 kt	Gust	A WSMR station southeast of Bosque del Apache measured a 60 mph wind gust.
Thunderstorm Wind	6/16/2022	Taos	50 kt	Gust	Taos measured a 58 mph wind gust.
Thunderstorm Wind	6/16/2022	Taos	64 kt	Gust	Arroyo Seco measured a 74 mph wind gust.
Thunderstorm Wind	6/16/2022	Taos	61 kt	Gust	A 70 mph wind gust was measured near El Prado.
Thunderstorm Wind	6/16/2022	Catron	56 kt	Gust	Old Horse Springs measured a 64 mph wind gust.
Thunderstorm Wind	6/17/2022	San Juan	52 kt	Gust	Farmington measured a 60 mph wind gust.
Flash Flood	6/18/2022	Rio Arriba			1.5 to 2.5" of rain caused flash flooding near Embudo, Dixon, and Ojo Sarco.
Flash Flood	6/18/2022	Valencia			A flash flood along NM-6 west of Los Lunas submerged one vehicle. No injuries reported.
Hail	6/19/2022	Cibola	1"		San Fidel reported quarter size hail that had accumulated to about an inch deep.
Hail	6/19/2022	Cibola	1"		Cubero reported quarter size hail.
Flash Flood	6/19/2022	Cibola			Flash flooding impact CR-13 near San Fidel.
Flash Flood	6/19/2022	Cibola			Numerous roads and a fire station inundated by flash flooding around Cubero.
Flash Flood	6/26/2022	Chaves			Flash flooding impacted eastern parts of Roswell with dozens of homes impacted. A bridge was also washed out.
Funnel Cloud	6/27/2022	Mckinley			Crownpoint spotted a funnel cloud that did not make contact with the ground.
Flash Flood	6/30/2022	Mora			Canoncito Creek overtopped the culvert and flooded Canoncito Road. Damages are estimated.
Flash Flood	6/30/2022	Mora			Debris flow reported near a house west of Highway 121 along Lea Road. Damages are estimated.
Wildfire	6/1-6/30/2022	E Slopes Sangre de Cristo Mts			The Hermits Peak-Calf Canyon Fire burned 341,735 acres with 93% containment by late June.
Wildfire	6/1-6/15/2022	Jemez Mountains			The Cerro Pelado Fire burned 45,605 acres.
Wildfire	6/9-6/19/2022	West Central Highlands			The Cerro Bandera Fire burned 939 acres on June 9th on private land within the El Malpais National Monument.
Wildfire	6/16-6/21/2022	Sandia/Manzano Mts & Edgewood			The Sixty-Six Fire burned 26 acres around Carnuel.

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-  NCEI Climatological Rankings: <https://www.ncdc.noaa.gov/cag/national/rankings>
-  PRISM Climate Data: <http://www.prism.oregonstate.edu/>
-  NWS Local Climate Pages: <https://w2.weather.gov/climate/index.php?wfo=abq>
-  NCEI Storm Data: <https://www.ncdc.noaa.gov/stormevents/>
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