



Synopsis

June 2023 was very different depending on where you were in the state. The eastern portion of the state had rounds of severe storms and heavy rainfall throughout the month while the western portion of the state was dry and breezy with critical fire weather conditions for much of the month. There were over 60 severe hail reports during the month as well as 8 strong wind reports, almost all of which were in northeastern NM. Meanwhile, the southeastern portion of the state suffered weeks of unrelenting heat. Roswell broke a record with 10 consecutive days at or above 105°F.



Photo courtesy Australian Sky & Weather
Des Moines, NM



Photo courtesy Grant Tosterud
Tecolote Creek



Photo courtesy Chip Britt
Pasamonte, NM

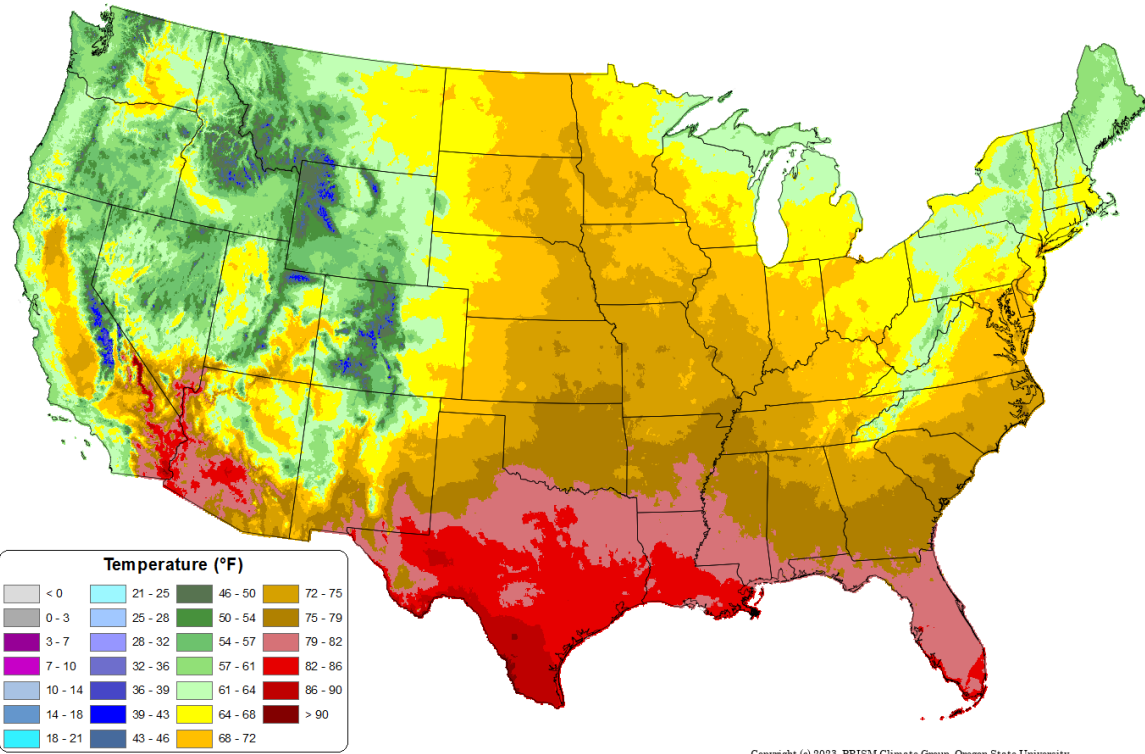


Photo courtesy Zach Osborn
Capulin, NM



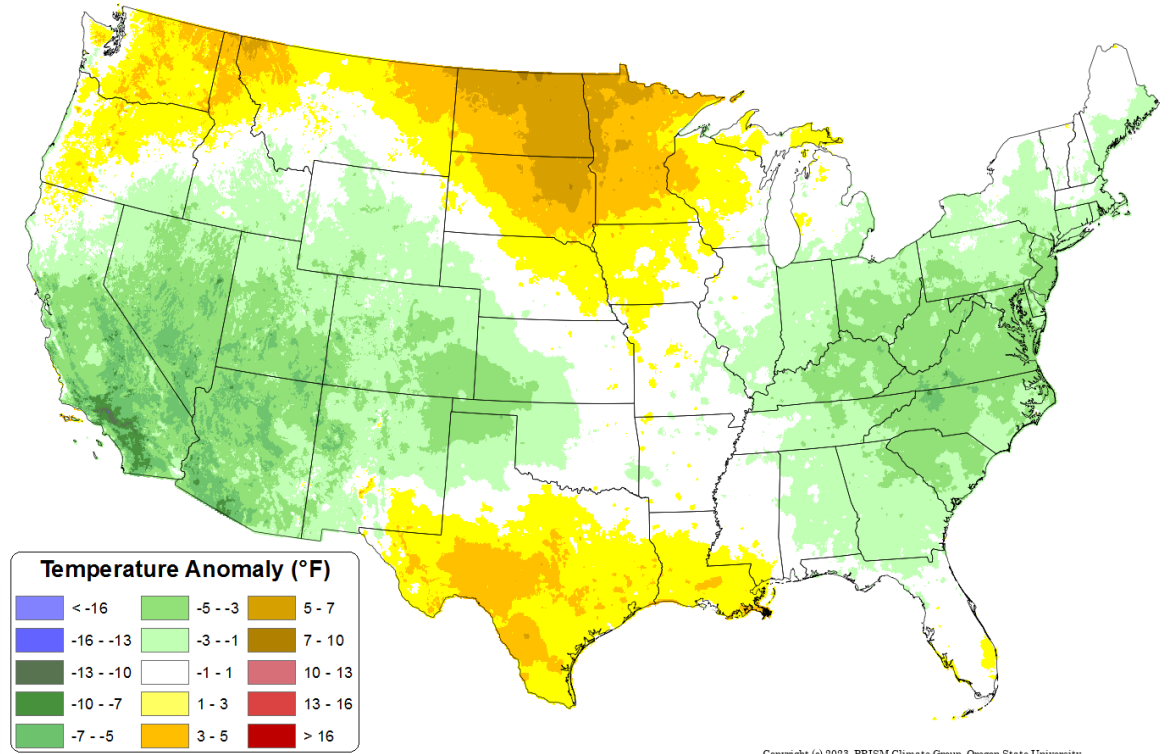
Actual

Average Daily Mean Temperature: Jun 2023
 Period ending 7 AM EST 30 Jun 2023
 (Map created 02 Jul 2023)



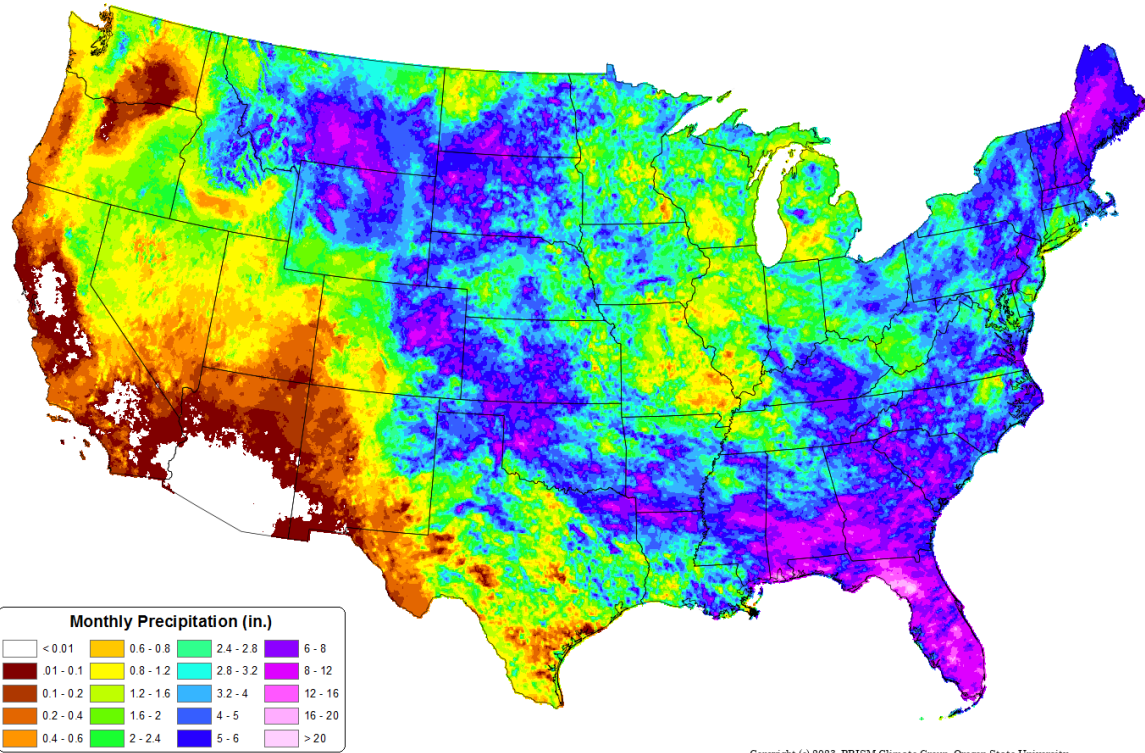
Anomaly

Daily Mean Temperature Anomaly: Jun 2023
 Period ending 7 AM EST 30 Jun 2023
 Base period: 1991-2020
 (Map created 02 Jul 2023)



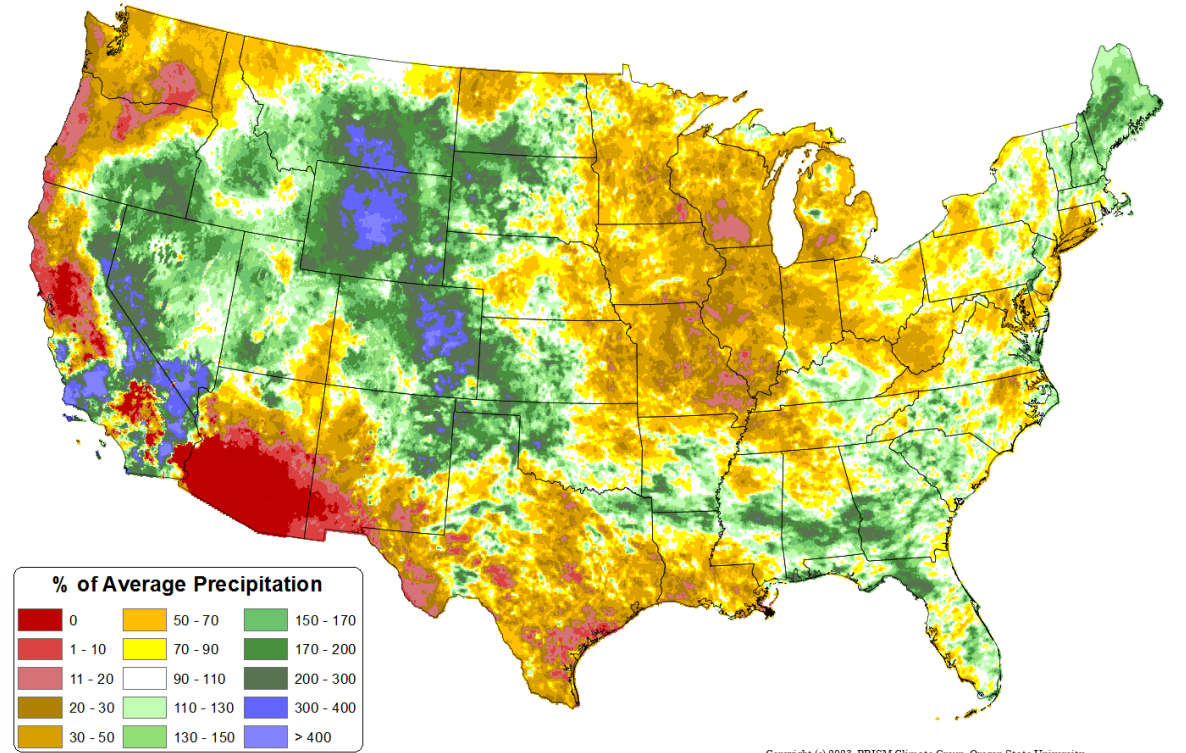
Actual

Total Precipitation: Jun 2023
Period ending 30 Jun 2023
(Map created 02 Jul 2023)



Anomaly

Total Precipitation Anomaly: Jun 2023
Period ending 30 Jun 2023
Base period: 1991-2020
(Map created 02 Jul 2023)

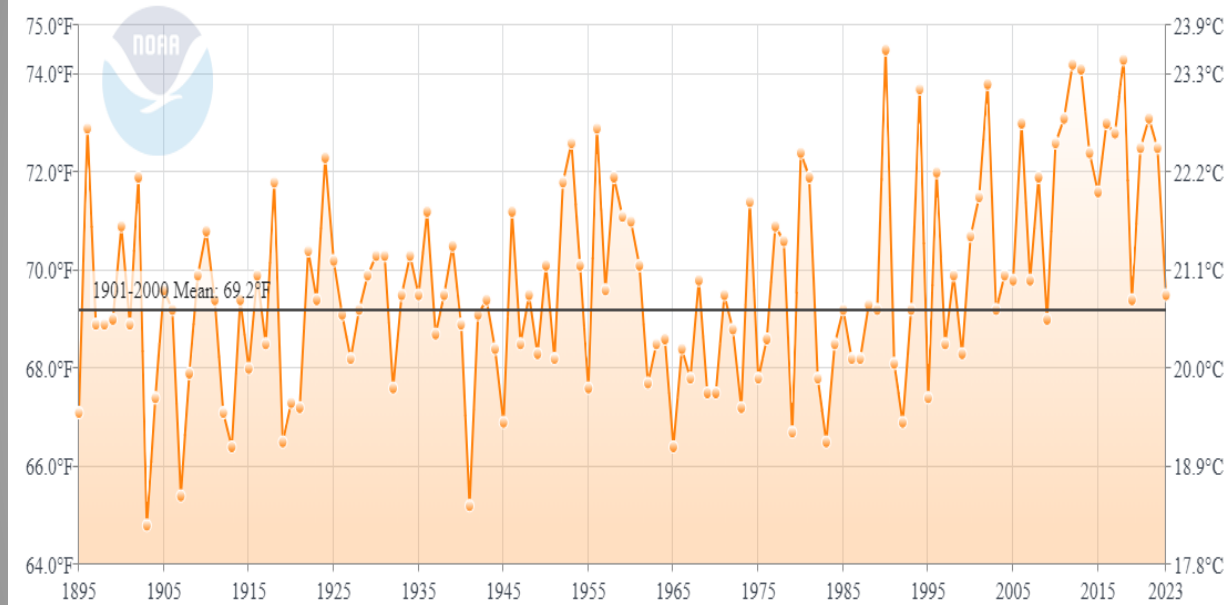




Temperature

New Mexico Average Temperature

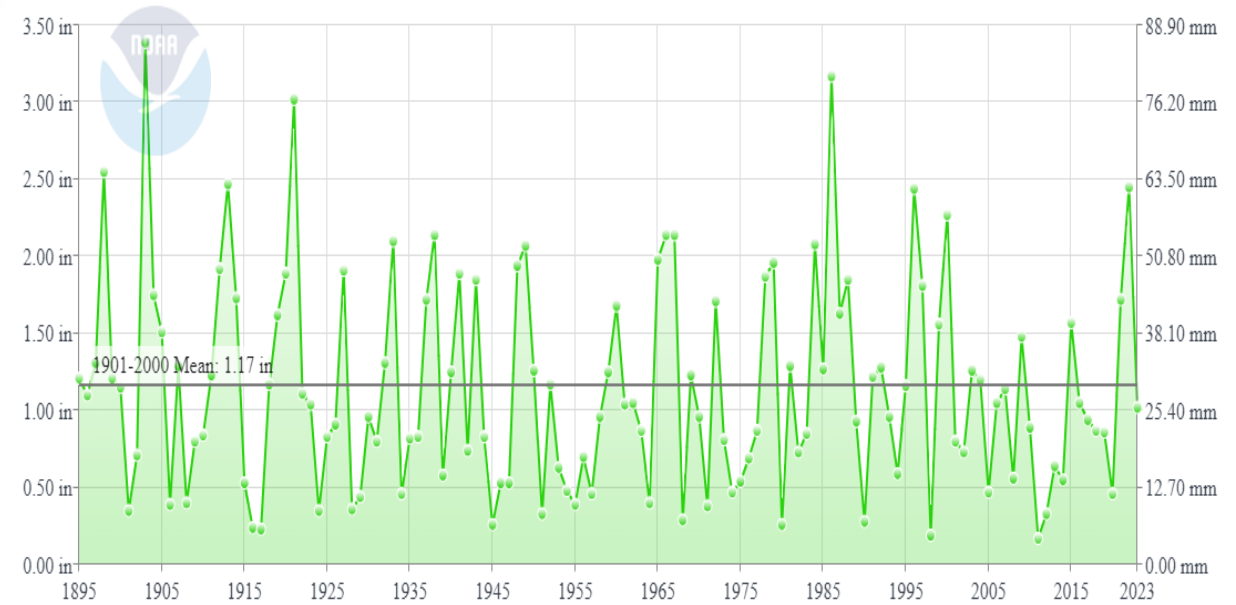
June



Precipitation

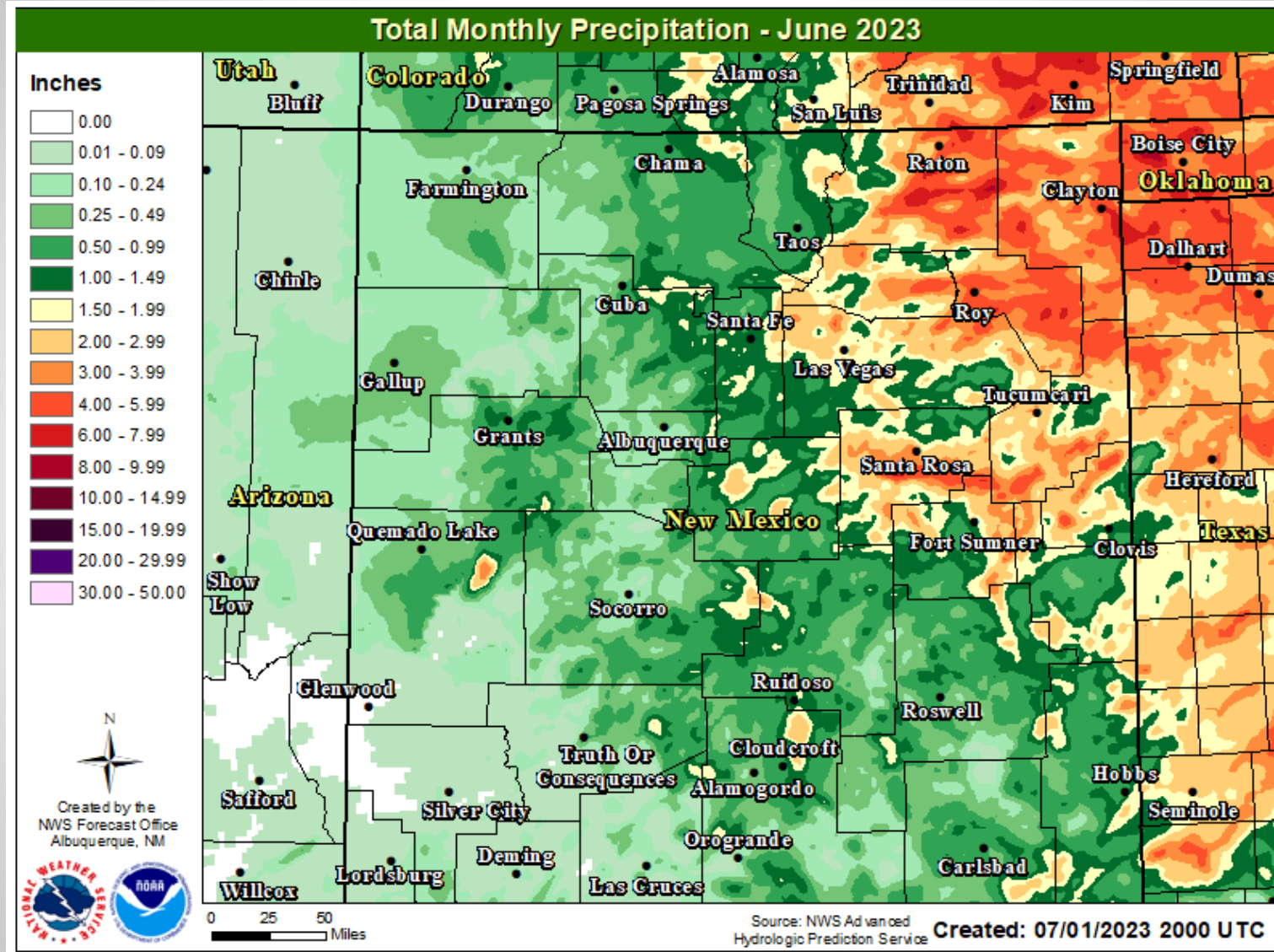
New Mexico Precipitation

June



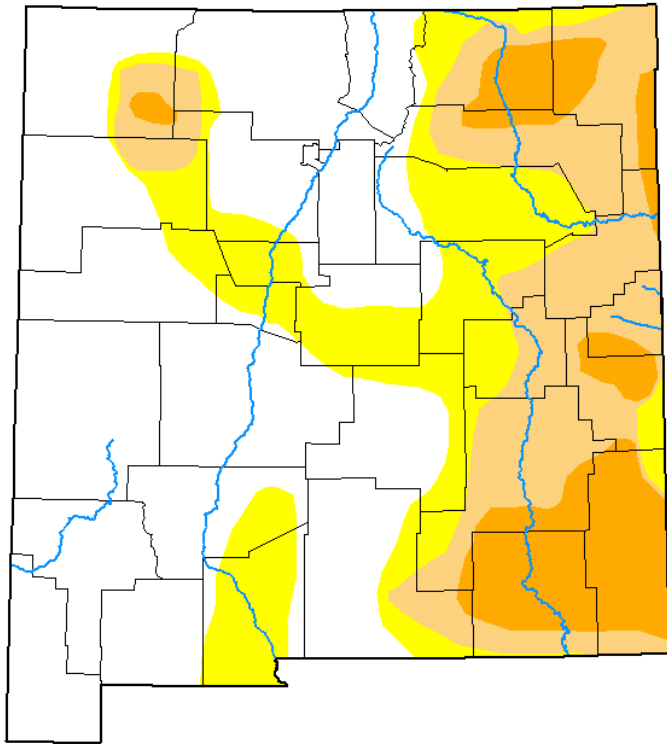
The June 2023 average statewide temperature was 69.5°, which was 0.3° above the long-term normal of 69.2° (1901-2000). This ranked as the 71st warmest June on record (1895-2023).

The June 2023 average statewide precipitation was 1.02", which was 0.15" below the long-term normal of 1.17" (1901-2000). This ranked as the 64th driest June on record (1895-2023).





U.S. Drought Monitor New Mexico



June 6, 2023
(Released Thursday, Jun. 8, 2023)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	51.96	48.04	28.16	10.62	0.00	0.00
Last Week 05-30-2023	51.73	48.27	28.82	16.18	0.60	0.00
3 Months Ago 03-07-2023	28.27	71.73	37.12	15.52	3.82	0.19
Start of Calendar Year 01-03-2023	7.03	92.97	41.30	18.55	3.74	0.19
Start of Water Year 09-27-2022	0.99	99.01	76.80	31.46	6.99	0.00
One Year Ago 06-07-2022	0.00	100.00	100.00	97.18	90.06	46.76

Intensity:
 None (White) D2 Severe Drought (Orange)
 D0 Abnormally Dry (Yellow) D3 Extreme Drought (Red)
 D1 Moderate Drought (Light Orange) D4 Exceptional Drought (Dark Red)

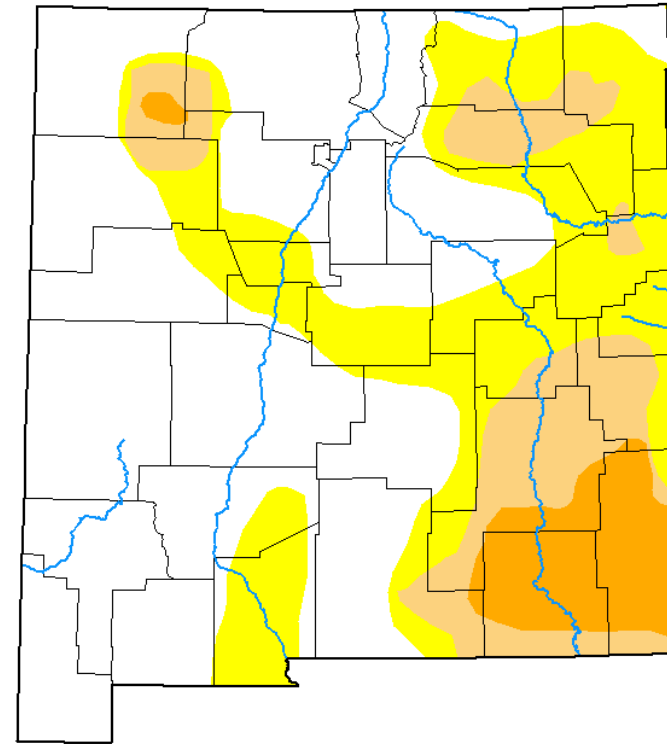
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:
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National Drought Mitigation Center



droughtmonitor.unl.edu

U.S. Drought Monitor New Mexico



June 27, 2023
(Released Thursday, Jun. 29, 2023)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	55.92	44.08	18.89	6.93	0.00	0.00
Last Week 06-20-2023	55.92	44.08	22.53	6.93	0.00	0.00
3 Months Ago 03-28-2023	36.06	63.94	32.91	15.67	4.20	0.21
Start of Calendar Year 01-03-2023	7.03	92.97	41.30	18.55	3.74	0.19
Start of Water Year 09-27-2022	0.99	99.01	76.80	31.46	6.99	0.00
One Year Ago 06-28-2022	0.00	100.00	98.50	95.18	58.38	11.79

Intensity:
 None (White) D2 Severe Drought (Orange)
 D0 Abnormally Dry (Yellow) D3 Extreme Drought (Red)
 D1 Moderate Drought (Light Orange) D4 Exceptional Drought (Dark Red)

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>

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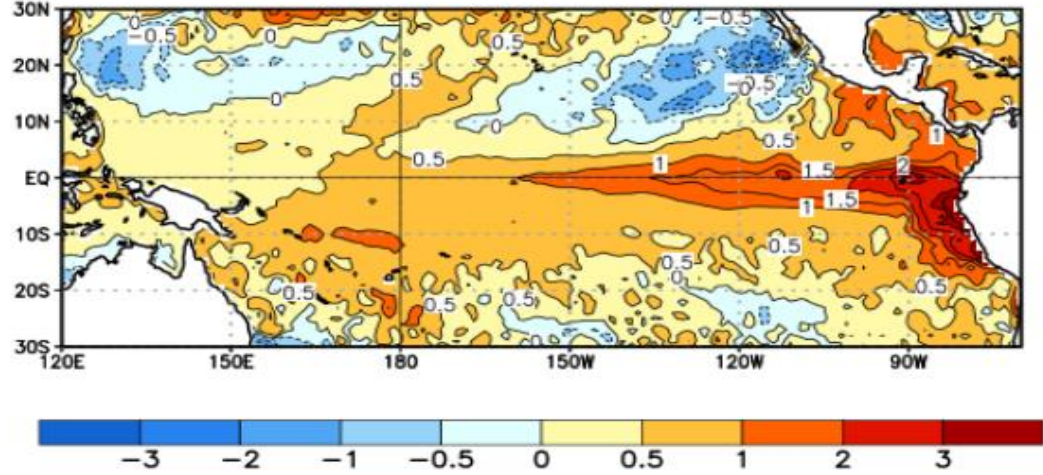


droughtmonitor.unl.edu

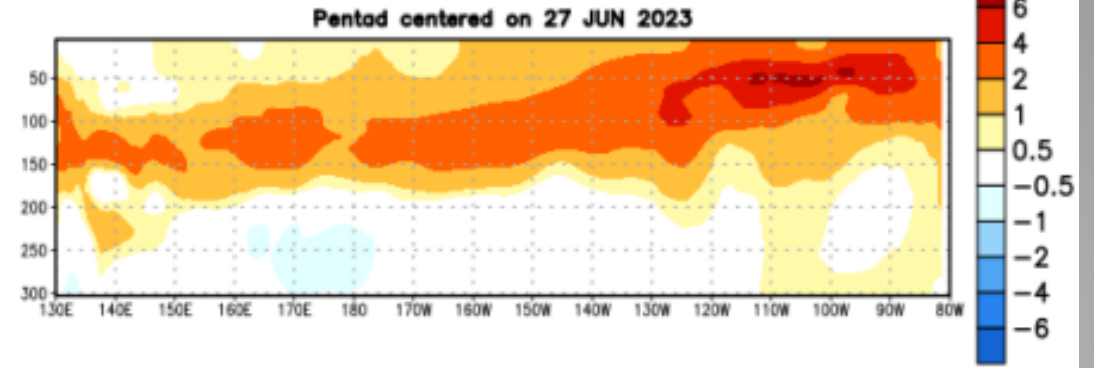
Drought conditions improved in the northeast and east-central plains after rounds of showers and storms moved across the region. Record monthly precipitation in Clayton led to a 2-category improvement there. Despite below average precipitation across the western portion of the state, the area remains largely drought free.



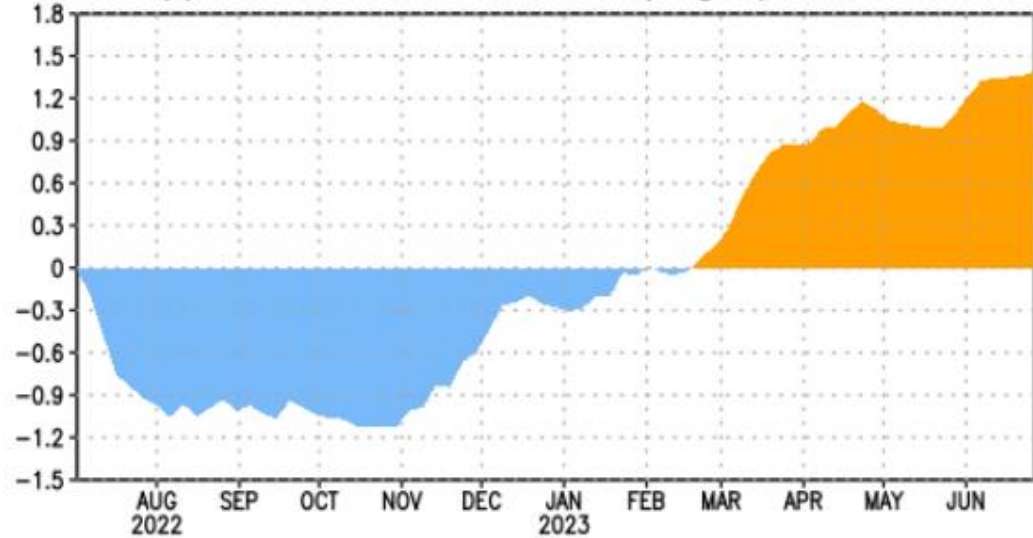
Average SST Anomalies
4 JUN 2023 – 1 JUL 2023



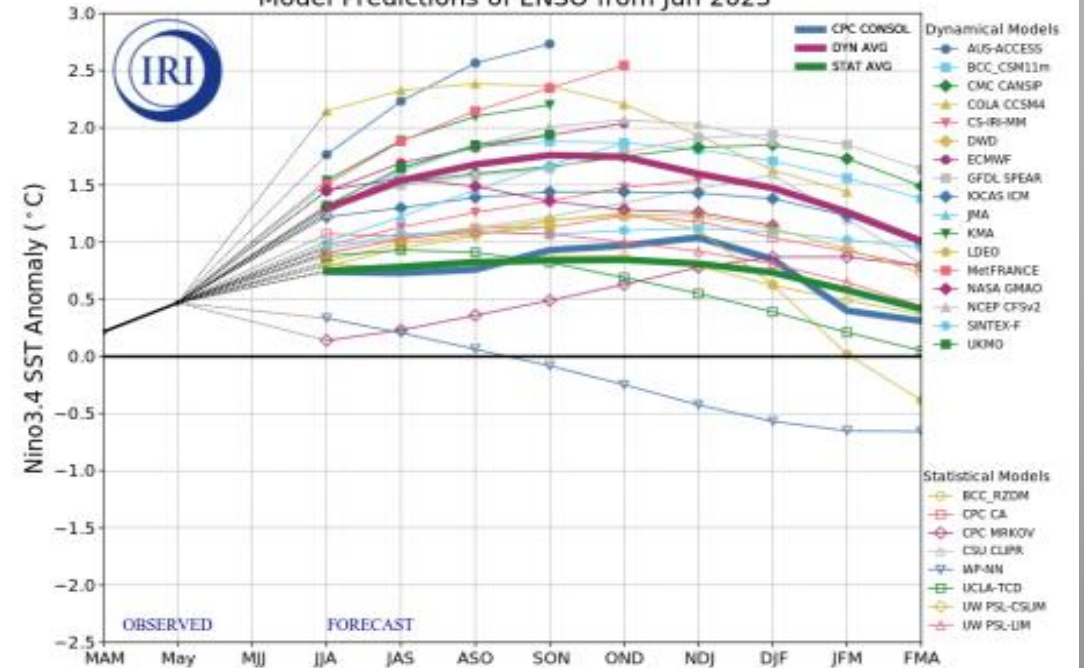
EQ. Subsurface Temperature Anomalies (deg C)



EQ. Upper-Ocean Heat Anoms. (deg C) for 180–100W

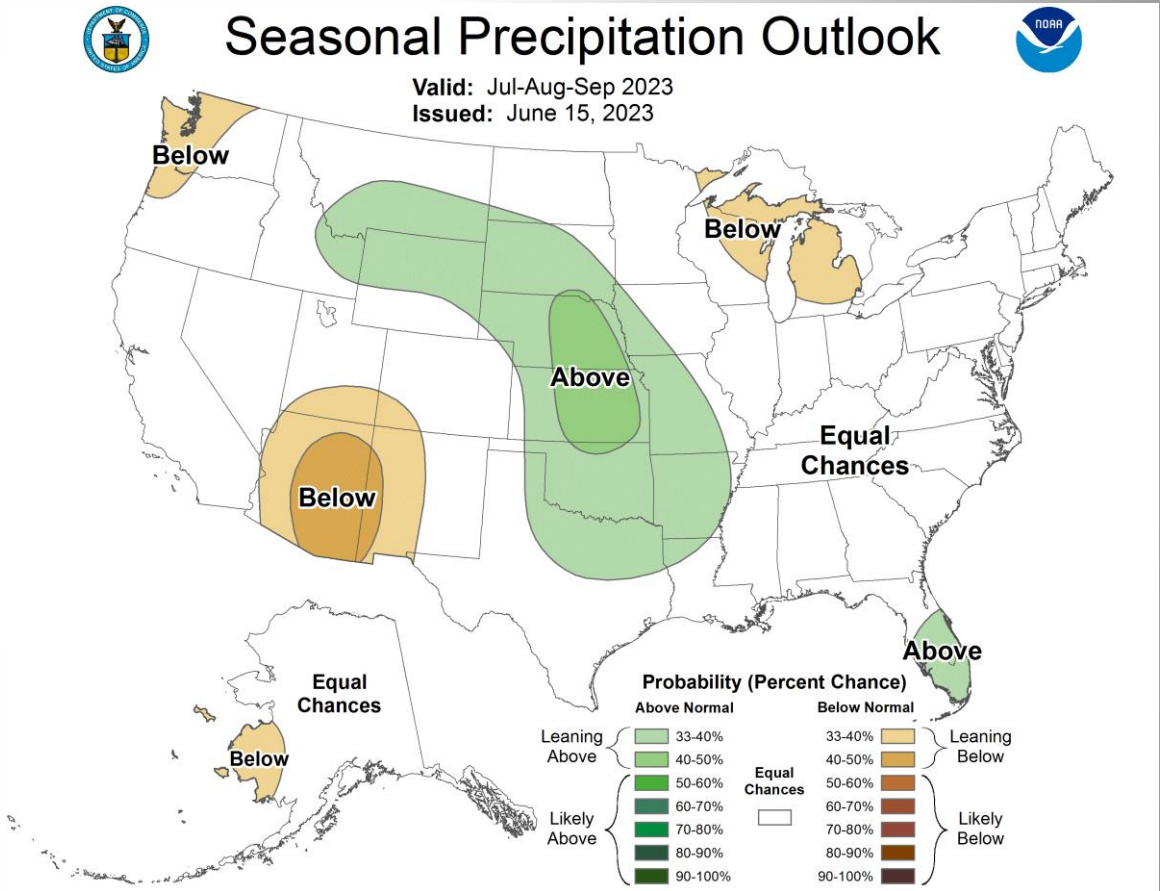
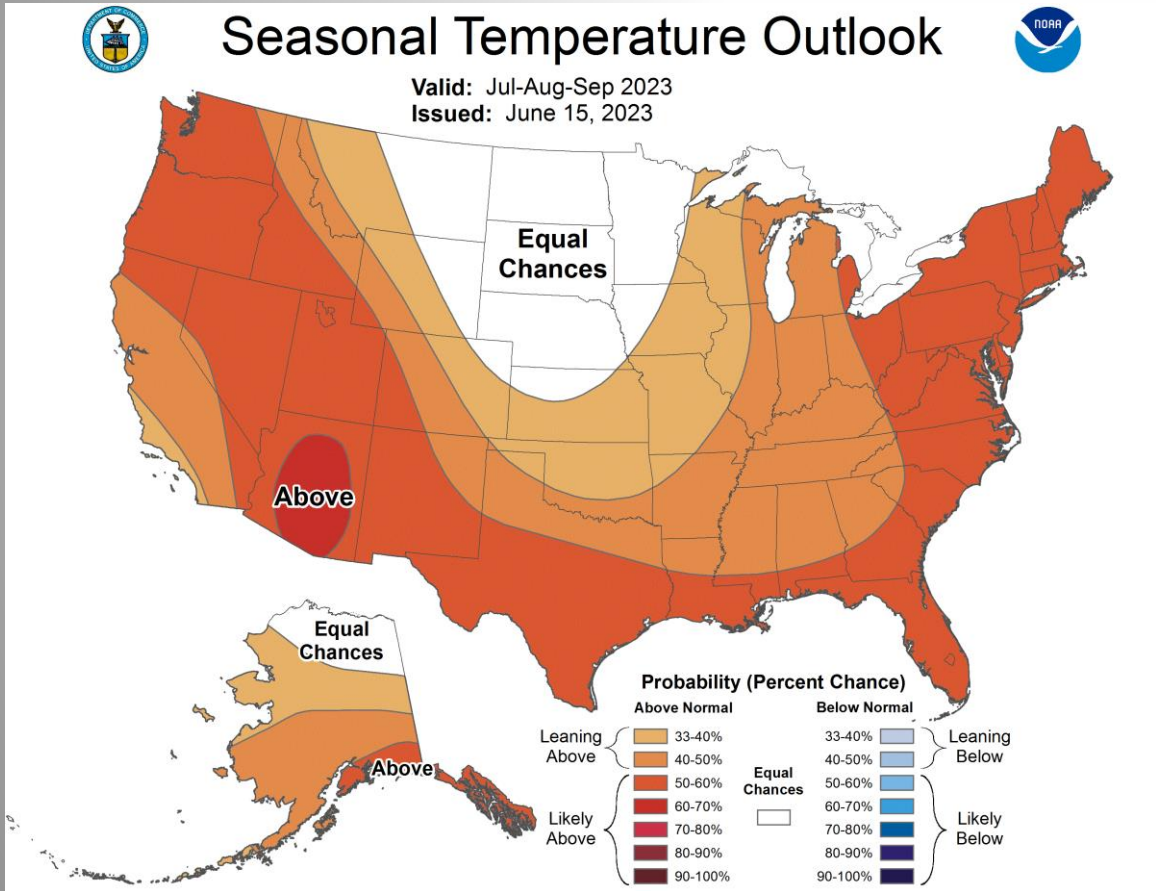


Model Predictions of ENSO from Jun 2023



Temperature July-August-September

Precipitation July-August-September

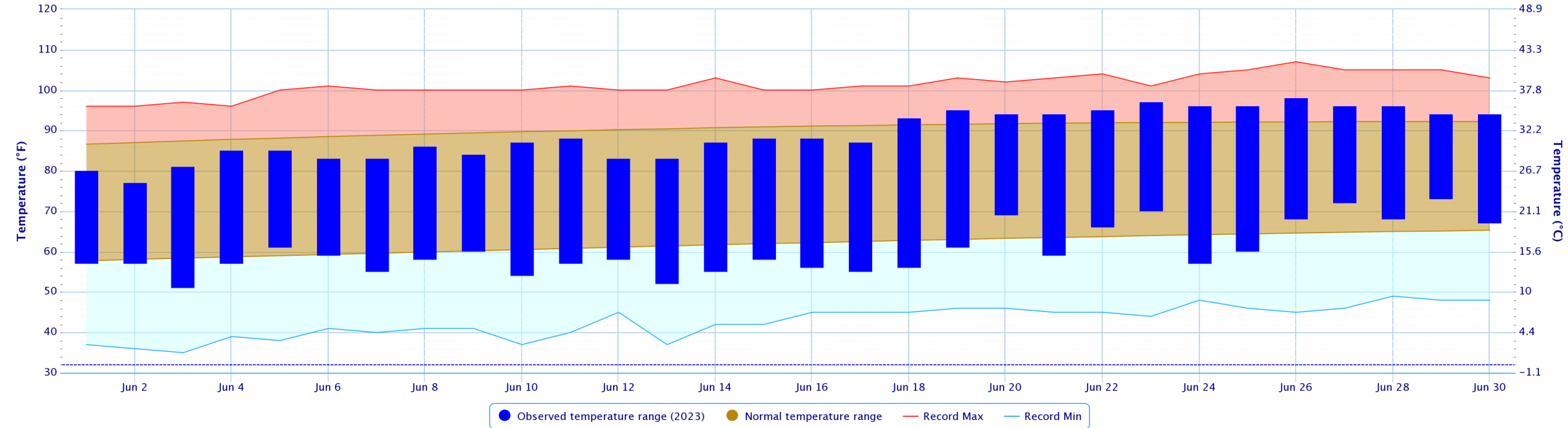




Average Temperature: 74.7°

Daily Temperature Data – ALBUQUERQUE INTL AP, NM

Period of Record – 1891–12–01 to 2023–07–03. Normals period: 1991–2020. Click and drag to zoom chart.



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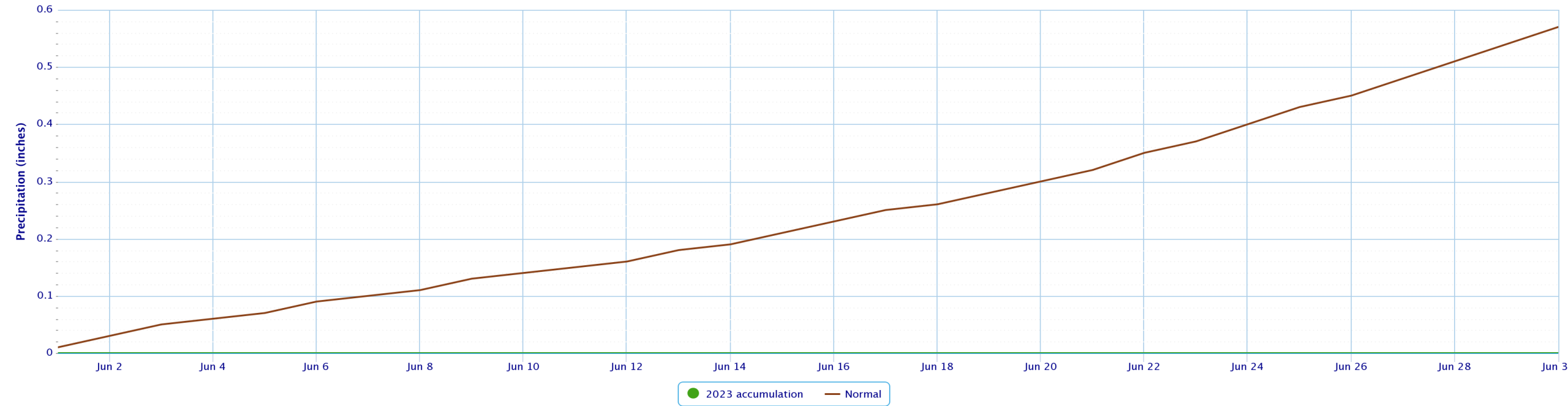
The June 2023 average temperature for Albuquerque was 74.7°, which was 1.4° below the normal of 76.1°. The average maximum temperature for the month was 89.1°. This was 1.3° below the normal average maximum temperature of 90.4°. The average minimum temperature for the month was 60.2°. This was 1.7° below the normal average minimum temperature of 61.9°. This ranked as the 61st coldest June on record.



Precipitation: Trace

Accumulated Precipitation – ALBUQUERQUE INTL AP, NM

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



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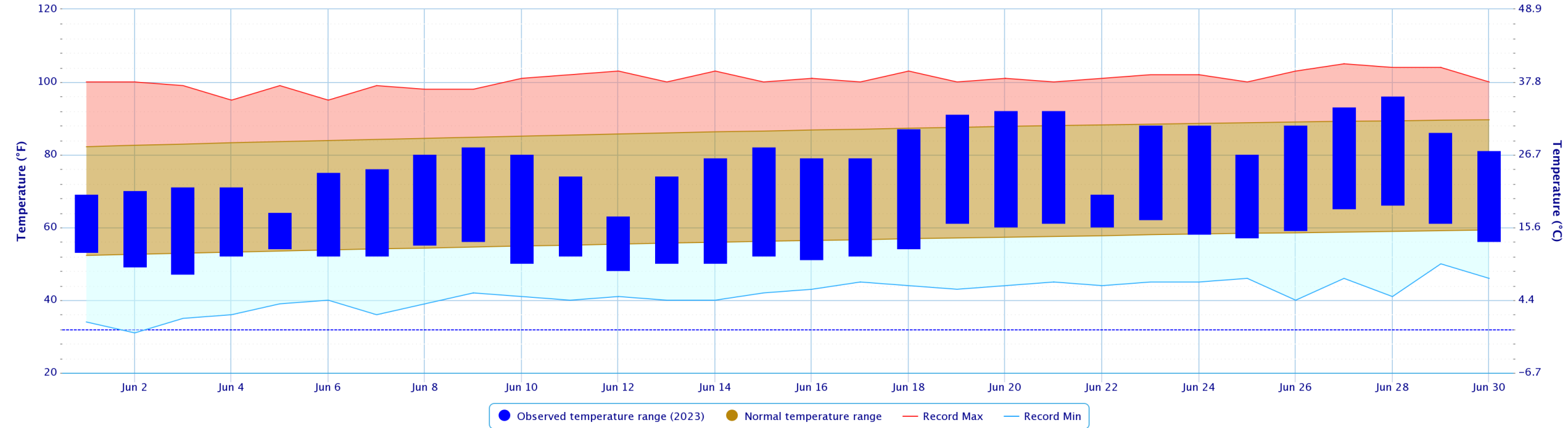
The June 2023 precipitation for Albuquerque was a Trace, which was 0.57" below the normal of 0.57". This was tied for the 2nd driest June on record.



Average Temperature: 67.6°

Daily Temperature Data – CLAYTON MUNICIPAL AIR PARK, NM

Period of Record – 1896-02-01 to 2023-07-03. Normals period: 1991-2020. Click and drag to zoom chart.



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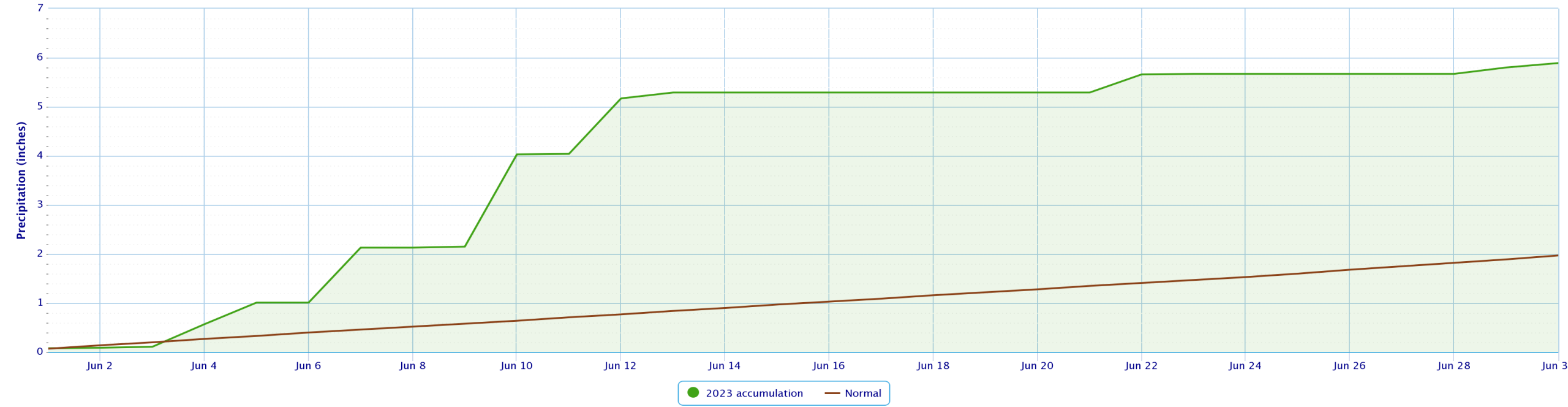
The June 2023 average temperature for Clayton was 67.6°, which was 3.6° below the normal of 71.2°. The average maximum temperature for the month was 80.0°. This was 6.4° below the normal average maximum temperature of 86.4°. The average minimum temperature for the month was 55.2°. This was 0.9° below the normal average minimum temperature of 56.1°. This ranked as the 14th coldest June on record.



Precipitation: 5.89"

Accumulated Precipitation – CLAYTON MUNICIPAL AIR PARK, NM

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



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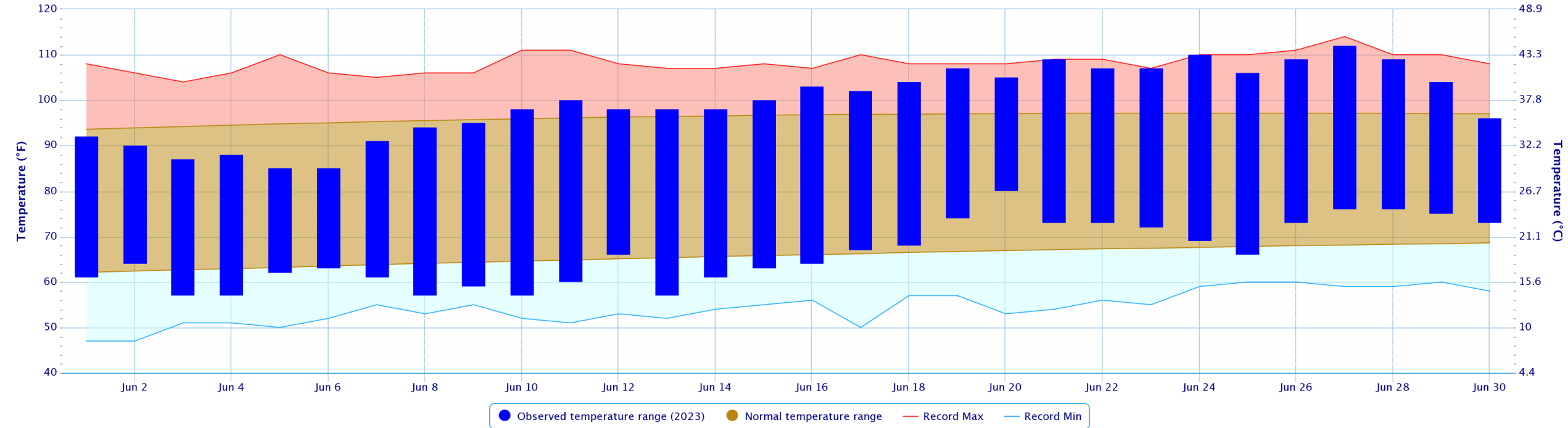
The June 2023 precipitation for Clayton was 5.89", which was 3.92" above the normal of 1.97". This ranked as the wettest June on record.



Average Temperature: 82.9°

Daily Temperature Data – ROSWELL INDUSTRIAL AIR PARK, NM

Period of Record – 1946–12–01 to 2023–07–03. Normals period: 1991–2020. Click and drag to zoom chart.



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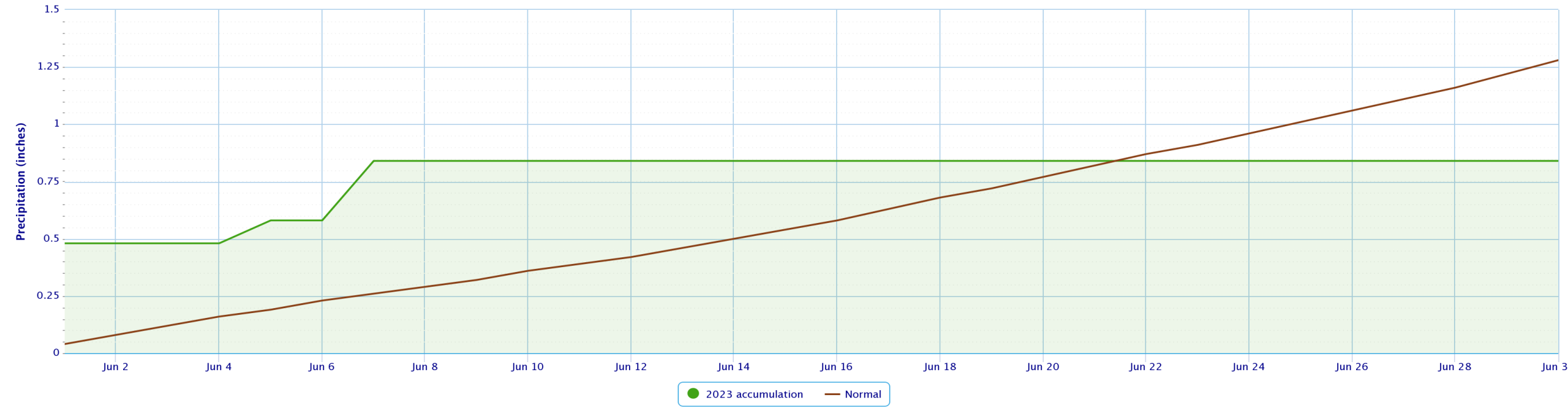
The June 2023 average temperature for Roswell was 82.9°, which was 1.9° above the normal of 81.0°. The average maximum temperature for the month was 99.6°. This was 3.4° above the average maximum temperature of 96.2°. The average minimum temperature for the month was 66.1°. This was 0.4° above the normal average minimum temperature of 65.7°. This ranked as the 4th warmest June on record.



Precipitation: 0.84"

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 2023 precipitation for Roswell was 0.84", which was 0.44" below the normal of 1.28". This ranked as the 33rd driest June on record.



Event Type	Date	County/Zone	Magnitude	Type	Event Narrative
Hail	6/2/2023	San Miguel	1"	Quarter	There was only unspecified very minor damage to vegetation reported.
Hail	6/2/2023	San Miguel	0.75"	Penny	Dime size hail covering the ground was reported.
Flash Flood	6/3/2023	Mora			Flash flooding on State Hwy 434 at between mile markers 7 and 10 and near Guadalupita and Coyote Creek State Park.
Hail	6/3/2023	Roosevelt	1"	Quarter	
Hail	6/3/2023	Curry	1.75"	Golf Ball	
Hail	6/3/2023	San Miguel	1"	Quarter	
Hail	6/1/2023	Guadalupe	1"	Quarter	One inch hail fell just south of Milagro in western Guadalupe County. Hail accumulations of up to 3 inches occurred at that location.
Hail	6/1/2023	Sandoval	0.88"	Nickel	Nickel size hail 7 miles west southwest of Kewa Pueblo.
Hail	6/1/2023	Santa Fe	0.75"	Penny	Penny sized hail fell 8 miles south southeast of Frijoles.
Hail	6/1/2023	Guadalupe	1"	Quarter	One inch hail covering highway 219, 3 miles north northeast of Pastura in central Guadalupe County.
Hail	6/1/2023	Guadalupe	1.75"	Golf Ball	Three storm reports with hail between 1 to 1.75 inches covering highway 54 from a 2nd trailing supercell.
Hail	6/1/2023	Guadalupe	2"	Hen Egg	Ping-pong to 2 inch hail 5 miles south southeast of Puerto De Luna.
Hail	6/1/2023	Quay	2"	Hen Egg	Lead supercell moved east from Guadalupe County into Quay County and produced 2 inch size hail 7 miles west of House.
Flash Flood	6/5/2023	Guadalupe			Flash flooding reported across Santa Rosa via NM State EOC and County EM.
Strong Wind	6/5/2023	Middle Rio Grande Valley/Albuquerque Metro Area	43 kt		Thunderstorm wind damage northeast Albuquerque. Large tree limbs snapped, 5' cinder block wall blown over, and roof damage.
Tornado	6/5/2023	Quay			Landspout (non-mesocyclonic) tornado touched down briefly southeast of Nara Visa, NM.
Flash Flood	6/5/2023	San Miguel			Several inches of hail and water flowing from nearby pasture across dirt road in northern San Miguel County.
Tornado	6/5/2023	Bernalillo			A brief landspout tornado was spotted on the mesa above Petroglyph National Monument.
Flash Flood	6/5/2023	Bernalillo			At least one foot of hail accumulation in flooded areas. Via Sedillo washed over with large rocks, mud, and debris in several spots.
Hail	6/10/2023	Union	1"	Quarter	Twitter report of pea to quarter size hail just east of Clayton.
Hail	6/10/2023	Union	1"	Quarter	Storm chaser relayed report of nickel to quarter size hail covering the ground from the first supercell.

*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	Date			Type	Event Narrative
Hail	6/10/2023	Union	1.25"	Half Dollar	Spotter Network report of half dollar size hail on the northern outskirts of Clayton from second supercell.
Hail	6/10/2023	Union	0.88"	Nickel	Trained spotter and local fire and rescue reported penny to nickel size hail in downtown Clayton from second supercell.
Hail	6/6/2023	Mora	1"	Quarter	Very heavy rain and quarter sized hail falling at the time of report.
Hail	6/6/2023	Lincoln	0.88"	Nickel	Received a report via NWChat, that a storm dropped nickel sized hail just south of Ruidoso.
Hail	6/6/2023	Mckinley	0.75"	Penny	CoCoRaHS observer NM-MK-31 observed penny sized hail as storm moved north.
Hail	6/6/2023	San Miguel	1"	Quarter	Quarter size hail fell with a storm moving southeast in northern San Miguel County near Tierra Monte.
Hail	6/6/2023	San Miguel	1.5"	Ping Pong	Spotter reported ping pong ball size hail with storm moving southeast through northern San Miguel County near Manuelitas.
Hail	6/6/2023	San Miguel	1.5"	Ping Pong	Two reports of quarter to ping pong ball size hail at Sapello as storm moved southeast through San Miguel County.
Hail	6/6/2023	San Miguel	1"	Quarter	Mineral Hill Fire Department reported quarter size hail from a supercell drifting slowly south and east.
Hail	6/6/2023	San Miguel	1"	Quarter	Fire Dept. in Cabo Lucero relayed secondary reports of quarter size hail and accumulated hail 4 to 6 inches deep.
Flash Flood	6/6/2023	San Miguel			Local Volunteer Fire Dept. relayed reports of burn scar flash flooding. Debris and water over roadways in and around Cabo Lucero.
Flash Flood	6/6/2023	Bernalillo			Vehicle stuck in flood waters and partially submerged in mud along Sedillo Road.
Flash Flood	6/6/2023	Torrance			NMDOT reported severe driving conditions from standing water and flooding over roadways in the Estancia area.
Hail	6/7/2023	Chaves	0.75"	Penny	Public service in Chaves County reported penny size hail on roadway. Roadway was closed for reasons outside of hail accumulation.
Hail	6/11/2023	Union	2.5"	Tennis Ball	Large hail caused vehicle and roof damage near Sedan.
Hail	6/11/2023	Union	1"	Quarter	Quarter sized hail fell as supercell moved east across northern Union County. Report occurred before severe warning was in effect.
Hail	6/11/2023	Union	1.5"	Ping Pong	Ping pong ball size hail fell as supercell moved east across northern Union County.
Hail	6/11/2023	Union	1.5"	Ping Pong	One window and several west facing vehicle windshields broken.
Hail	6/11/2023	Colfax	1.25"	Half Dollar	Supercell dropped half dollar size hail as it tracked southeast through southern Colfax County.
Hail	6/11/2023	Union	1.75"	Golf Ball	Clayton PD reported a 911 call from a person in Gladstone whose car window was fractured by large hail.
Hail	6/11/2023	Union	2.5"	Tennis Ball	Tennis ball size hail observed with supercell as it moved southeast into southwest Union County.

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Event Type	Date			Type	Event Narrative
Hail	6/11/2023	Union	2.75"	Baseball	Hail ranging from golf balls to baseballs around Pasamonte. Significant damage to homes and vehicles.
Hail	6/11/2023	Union	1.5"	Ping Pong	Ping pong ball sized hail fell with a supercell as it moved southeast through southern Union County.
Hail	6/12/2023	Union	1"	Quarter	A supercell moving east dropped quarter sized hail in Clayton.
Flash Flood	6/12/2023	Colfax			Water overflowing canyons and racing across U.S. Highways 87 and 64 in multiple places.
Hail	6/12/2023	Colfax	1.25"	Half Dollar	Half dollar sized hail fell in Maxwell as a cell moved northeast.
Hail	6/12/2023	Quay	2"	Hen Egg	Report of hen egg size hail as supercell moves east through northern Quay County.
Funnel Cloud	6/15/2023	Union			A funnel cloud was observed north of Clayton near Rabbit Ears Mountain.
Thunderstorm Wind	6/17/2023	Colfax	60 kt		Measured at Raton Crews Airport ahead of a thunderstorm.
Hail	6/17/2023	Union	1"	Quarter	Quarter sized hail fell on the west side of Des Moines as a supercell moved through.
Hail	6/17/2023	Union	1.5"	Ping Pong	Ping pong ball sized hail fell on the east side of Des Moines as a supercell moved east.
Hail	6/17/2023	Union	1.75"	Golf Ball	Golf ball sized hail reported north of Grenville as supercell moved east towards the Texas and Oklahoma border.
High Wind	6/17/2023	Central Highlands	50 kt		High wind gust observed at the Clines Corners observing station from westerly winds.
High Wind	6/18/2023	Chaves County Plains	51 kt		High wind gust observed at Roswell observing station from westerly winds.
Thunderstorm Wind	6/20/2023	Curry	56 kt		Dry microburst at the automated weather station at Cannon Air Force Base KCVS.
Thunderstorm Wind	6/23/2023	Curry	57 kt		High wind gust at Cannon AFB from a severe thunderstorm occurred before severe thunderstorm warning was in effect.
High Wind	6/23/2023	Northeast Highlands	59 kt		Dry microburst occurred at the Las Vegas observing station due to nearby virga showers.
High Wind	6/23/2023	Central Highlands	50 kt		Dry microburst from nearby virga shower at the Clines Corners observing station.
High Wind	6/23/2023	Quay County	50 kt		Dry microburst at the Tucumcari observing station from nearby virga showers.
High Wind	6/23/2023	Northeast Highlands	57 kt		High wind gust from nearby virga shower at the Las Vegas observing station.
Strong Wind	6/21/2023	Middle Rio Grande Valley/Albuquerque Metro Area	30 kt		Strong outflow winds from virga showers to the south blew down a large tree in the northeast heights of Albuquerque.

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Event Type	Date			Type	Event Narrative
Hail	6/6/2023	San Miguel	1"	Quarter	
Hail	6/11/2023	Union	1.75"	Golf Ball	
Hail	6/22/2023	Colfax	1"	Quarter	Spotter observed mostly penny-sized hailstones, but a few quarter-sized were observed.
Hail	6/22/2023	Colfax	1"	Quarter	
Hail	6/22/2023	Colfax	1"	Quarter	
Hail	6/22/2023	Colfax	2"	Hen Egg	Supercell moving east produced ping pong to hen egg size hail in Springer.
Hail	6/22/2023	Colfax	1.75"	Golf Ball	Supercell moving east dropped golf ball sized hail southeast of Springer.
Hail	6/22/2023	Colfax	1.75"	Golf Ball	Golfball sized hail fell with a supercell moving east towards Abbott.
Hail	6/22/2023	Colfax	2"	Hen Egg	A trained spotter and storm chaser reported half dollar size to hen egg size hail in Abbott.
Hail	6/22/2023	Harding	1"	Quarter	Quarter sized hail caused damage to flower gardens.
Hail	6/22/2023	Harding	1"	Quarter	
Hail	6/22/2023	Harding	1.25"	Half Dollar	Hail was mostly dime size but some were up to half dollars.
Hail	6/22/2023	Harding	1.25"	Half Dollar	
Hail	6/22/2023	Harding	1.5"	Ping Pong	Hail fell for at least ten minutes.
Hail	6/22/2023	Harding	1.75"	Golf Ball	Golf ball size hail fell with a cell that tracked over Mosquero, NM.
Hail	6/22/2023	Harding	2.5"	Tennis Ball	Tennis ball size hail reported east-northeast of Mosquero, NM.
Hail	6/22/2023	Quay	1.25"	Half Dollar	Half dollar size hail that lasted approximately 20 minutes.
Hail	6/22/2023	Harding	1.75"	Golf Ball	
Funnel Cloud	6/7/2023	Rio Arriba			A trained spotter shared a photo of a funnel cloud that formed along U.S. Highway 84 near Cebolla.
Hail	6/22/2023	Harding	0.88"	Nickel	The Rosebud COOP observer reported pea to nickel size hail.
High Wind	6/27/2023	Estancia Valley	52 kt		The FW4218 CWOP station near Estancia measured a peak wind gust of 60 mph, likely enhanced by virga.
High Wind	6/27/2023	Northeast Highlands	52 kt		The Las Vegas Airport ASOS measured a peak wind gust of 60 mph, likely enhanced by virga.
Thunderstorm Wind	6/27/2023	De Baca	56 kt		The Fort Sumner Airport reported a thunderstorm wind gust of 64 mph.
Thunderstorm Wind	6/27/2023	Quay	53 kt		Tucumcari Airport measured a 61 mph thunderstorm wind gust.
Thunderstorm Wind	6/27/2023	Colfax	70 kt		The Raton Airport ASOS measured a 64 mph then 81 mph thunderstorm wind gusts.
Hail	6/30/2023	Colfax	0.75"	Penny	Penny size hail along with minor flooding in their yard below their chicken coop from two inches of rainfall.
Hail	6/30/2023	Harding	1"	Quarter	A trained spotter reported quarter size hail that produced damage to windows and skylights.

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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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