

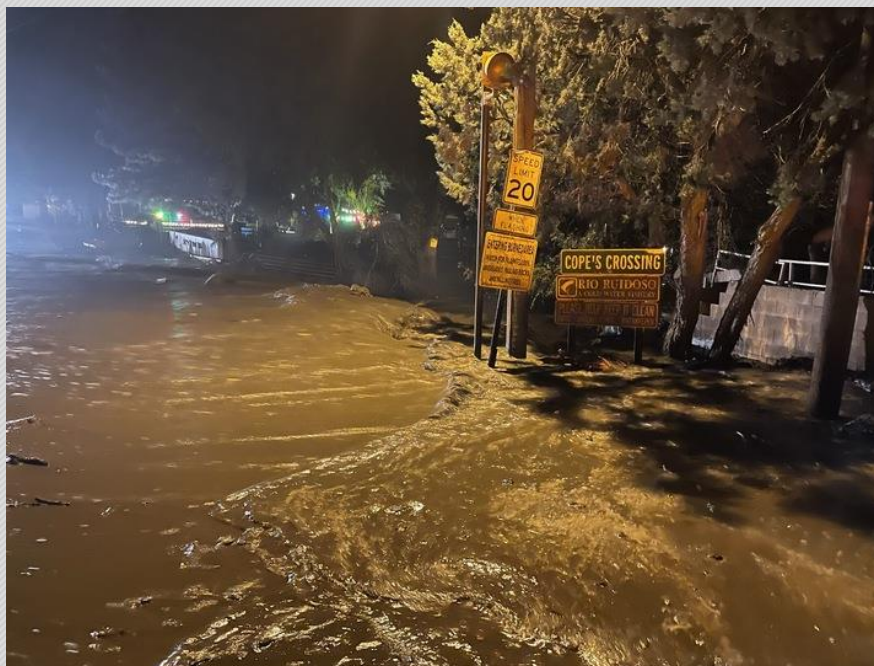
July 2024 Climate & Weather Summary

Issued: August 10, 2024

July 2024 was a very active month with regard to flash flooding. Heavy rainfall over the very sensitive Sacramento Complex of burn scars prompted the issuance of 5 Flash Flood Emergencies. Dozens of swift water rescues occurred, but fortunately no fatalities have occurred. Numerous instances of flash flooding occurred elsewhere in the state as well, including the HPCC burn scar and the east-central plains. In addition, lightning from storms sparked additional wildfires in central and western New Mexico during the first half of the month. Despite the active storm pattern and devastating flash flooding, monthly average precipitation was below average during the month of July. Temperatures were above average in most areas, but still remained well-below last year's record setting heat.



July 19th | Lamy, NM
Photo courtesy HeidiSocial from X



July 22nd | Ruidoso, NM
Photo courtesy Eric Queller



July 20th | Ruidoso Downs, NM
Photo courtesy Jake Canavan

July 2024 Climate & Weather Summary

Issued: August 10, 2024



ALBUQUERQUE
Weather Forecast Office



July 9th | Ruidoso, NM
Photo courtesy Jesus Figuerosa



July 20th | Ruidoso Downs, NM
Photo courtesy Brian Samson



July 9th | Ruidoso, NM
Photo courtesy rackitup on Facebook



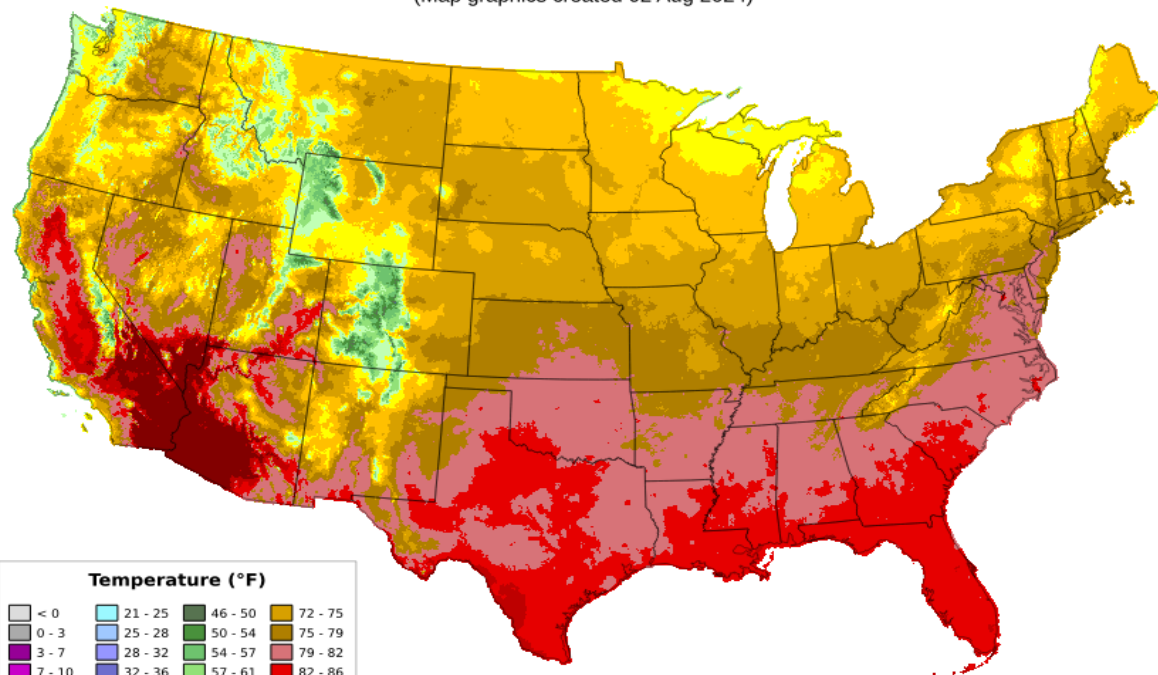
July 9th | Ruidoso, NM
Photo courtesy RAWSALERTSX from X

Temperatures

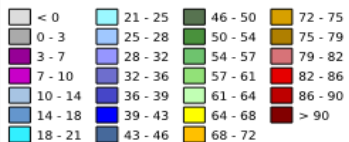
Average Daily Mean Temperature: Jul 2024

Period ending 7 AM EST 31 Jul 2024

(Map graphics created 02 Aug 2024)



Temperature (°F)



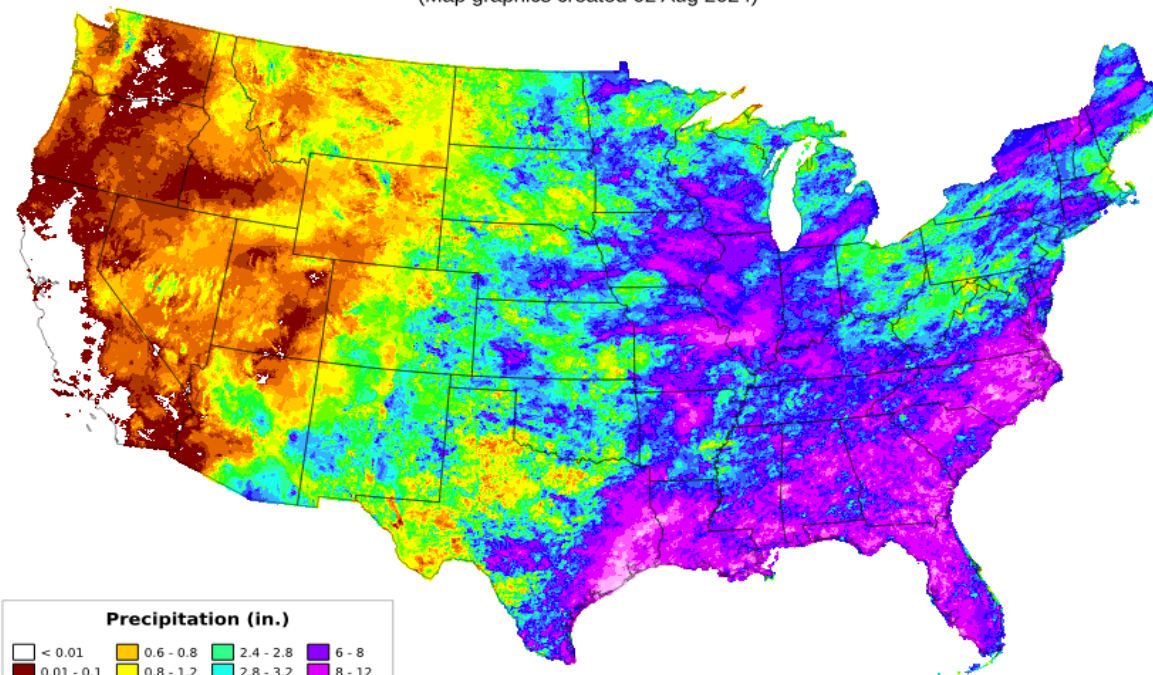
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Precipitation

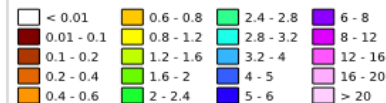
Total Precipitation: Jul 2024

Period ending 7 AM EST 31 Jul 2024

(Map graphics created 02 Aug 2024)

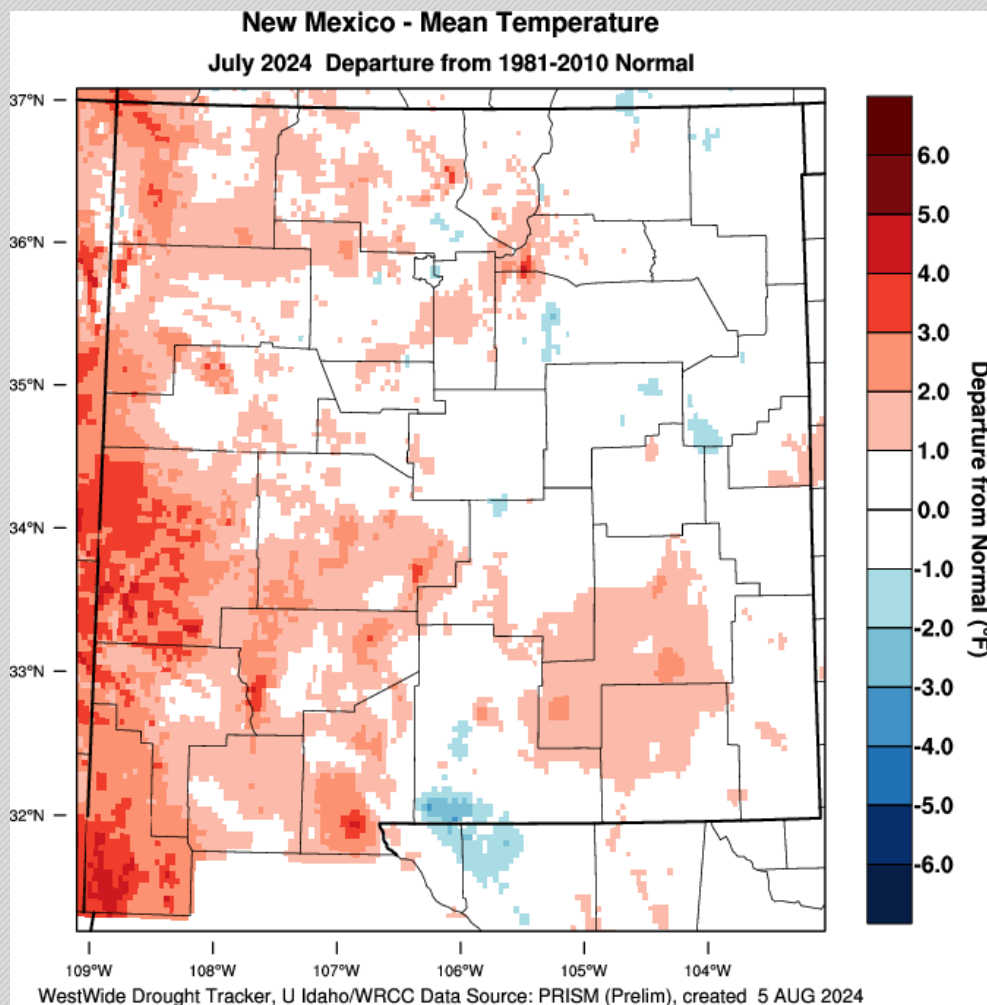


Precipitation (in.)

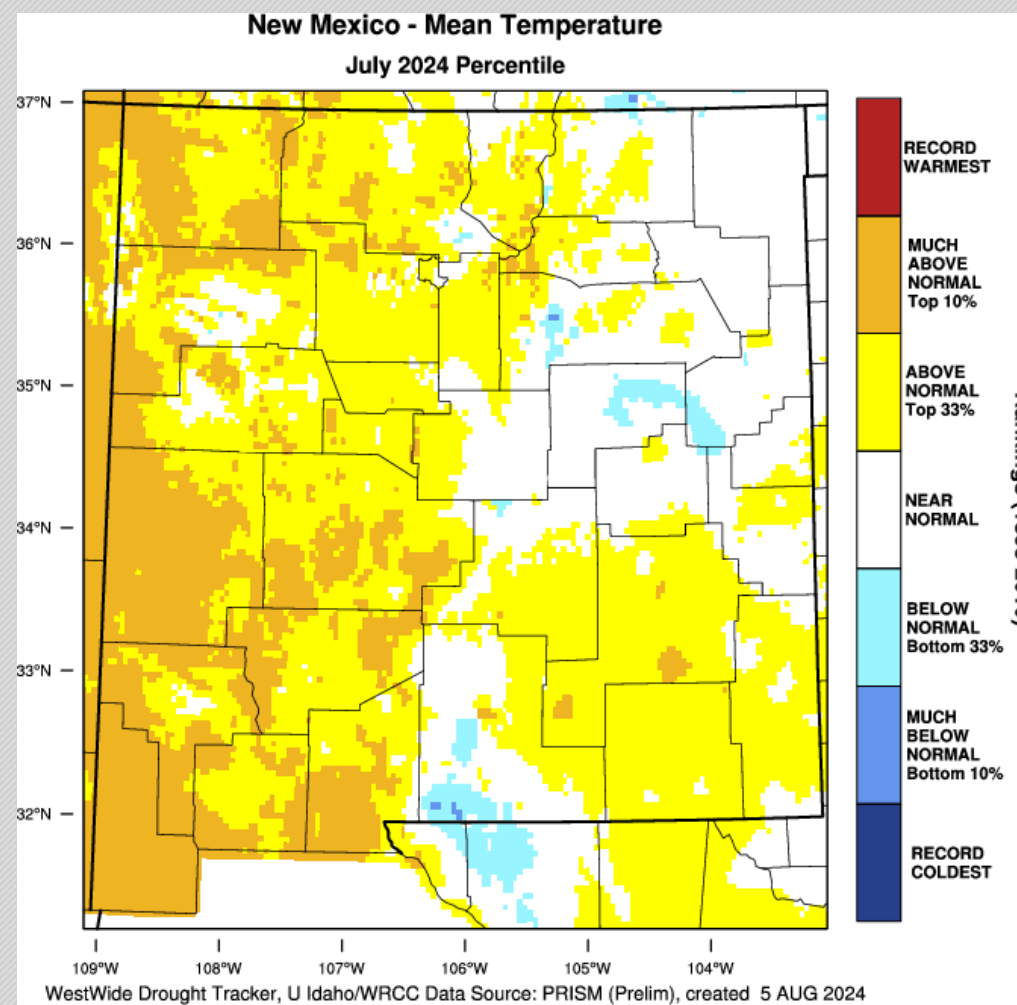


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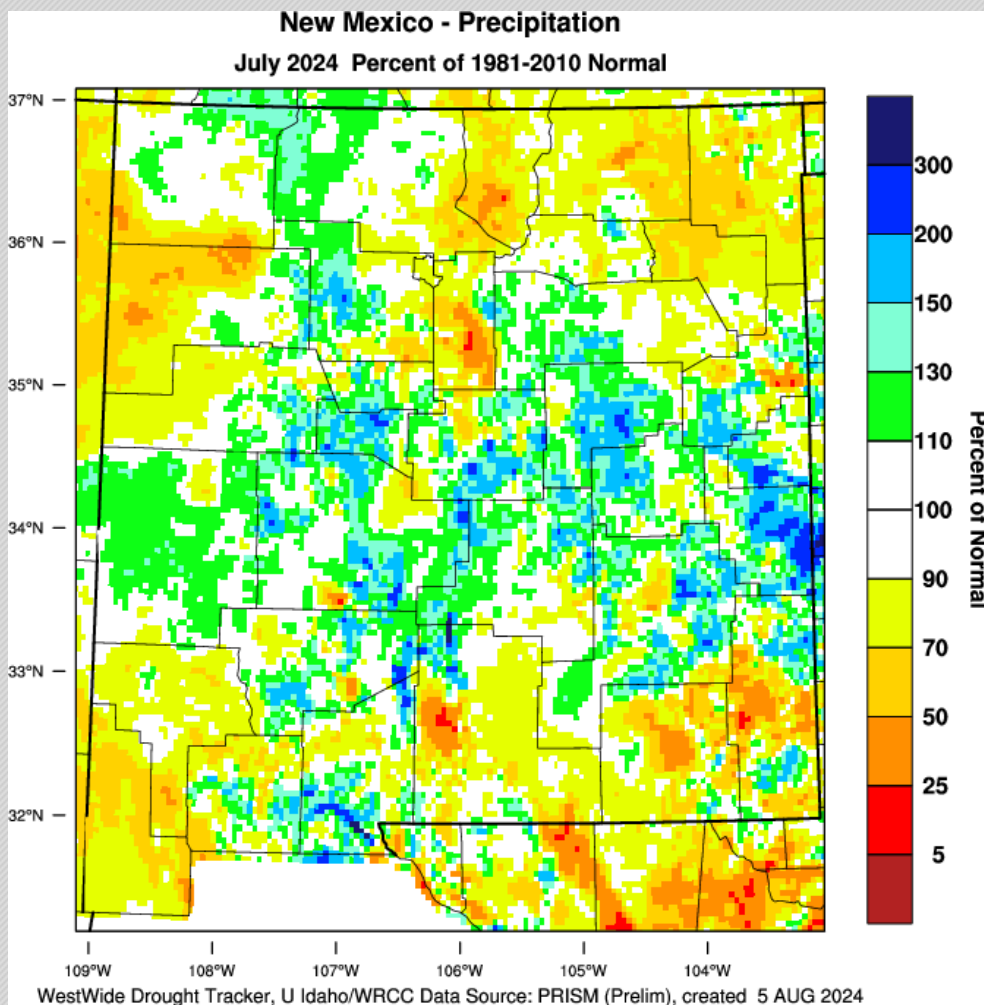
Anomaly



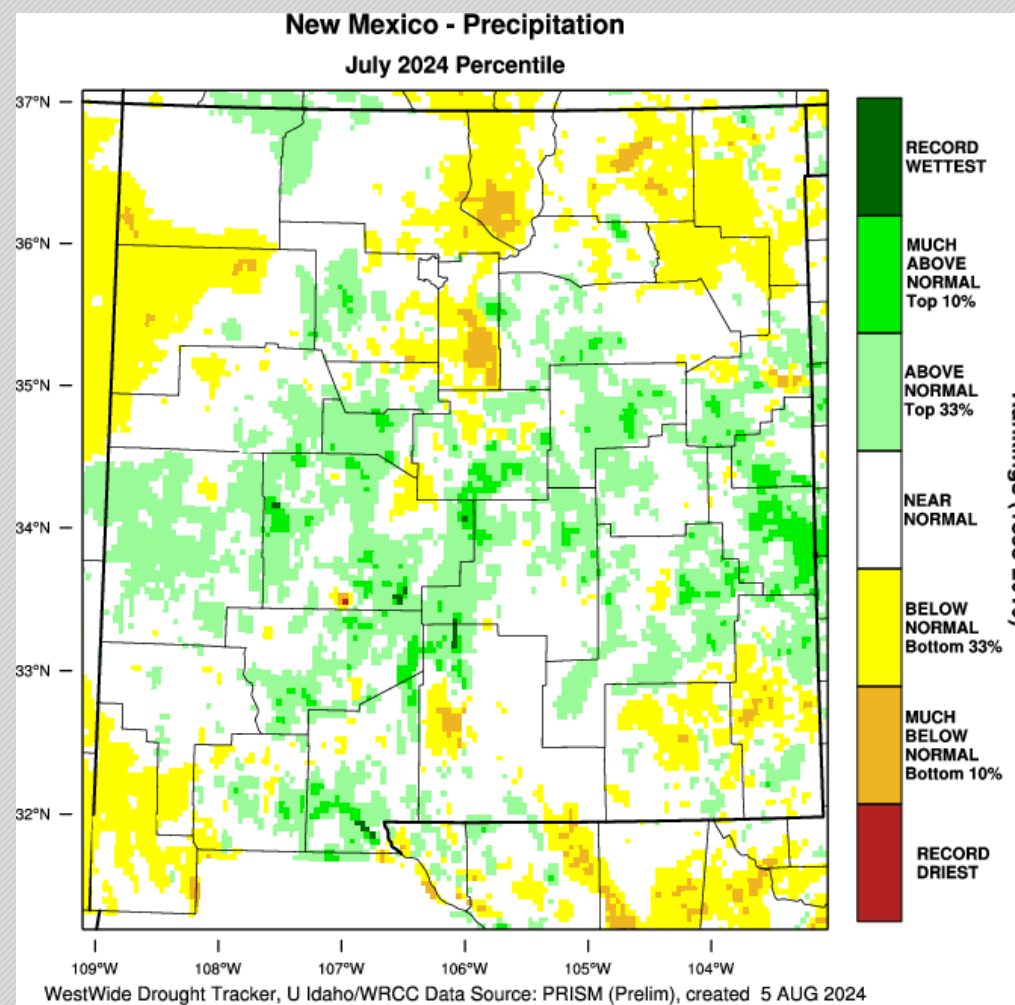
Percentile



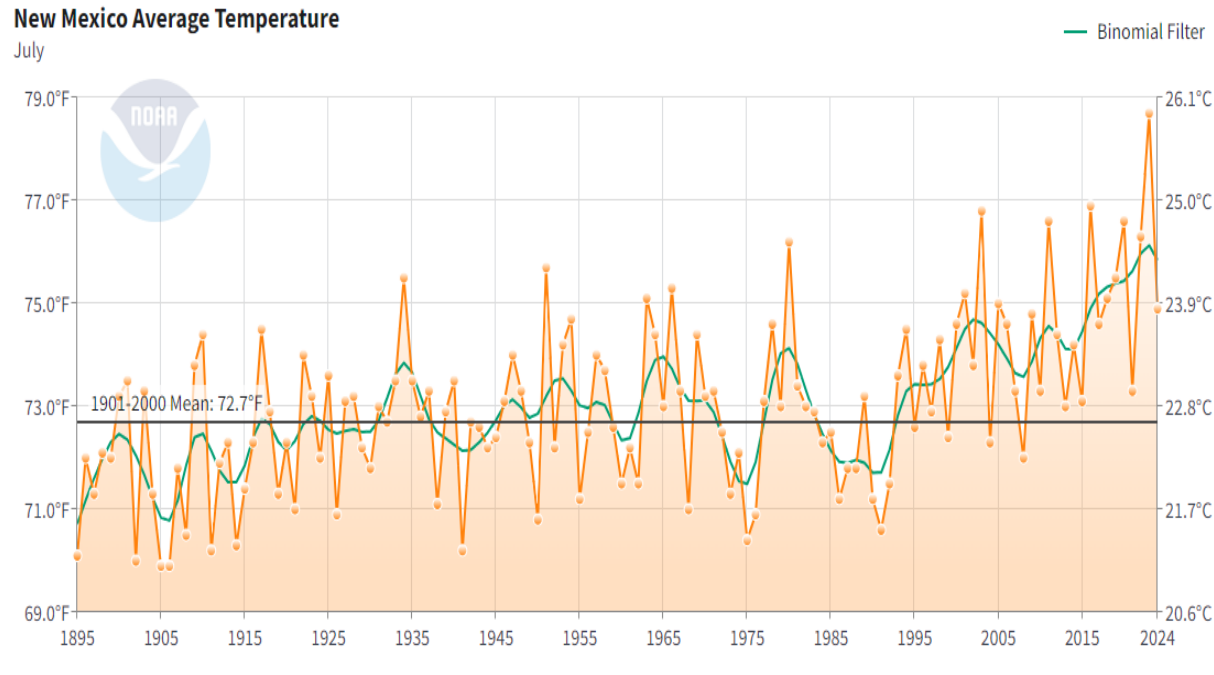
Anomaly



Percentile

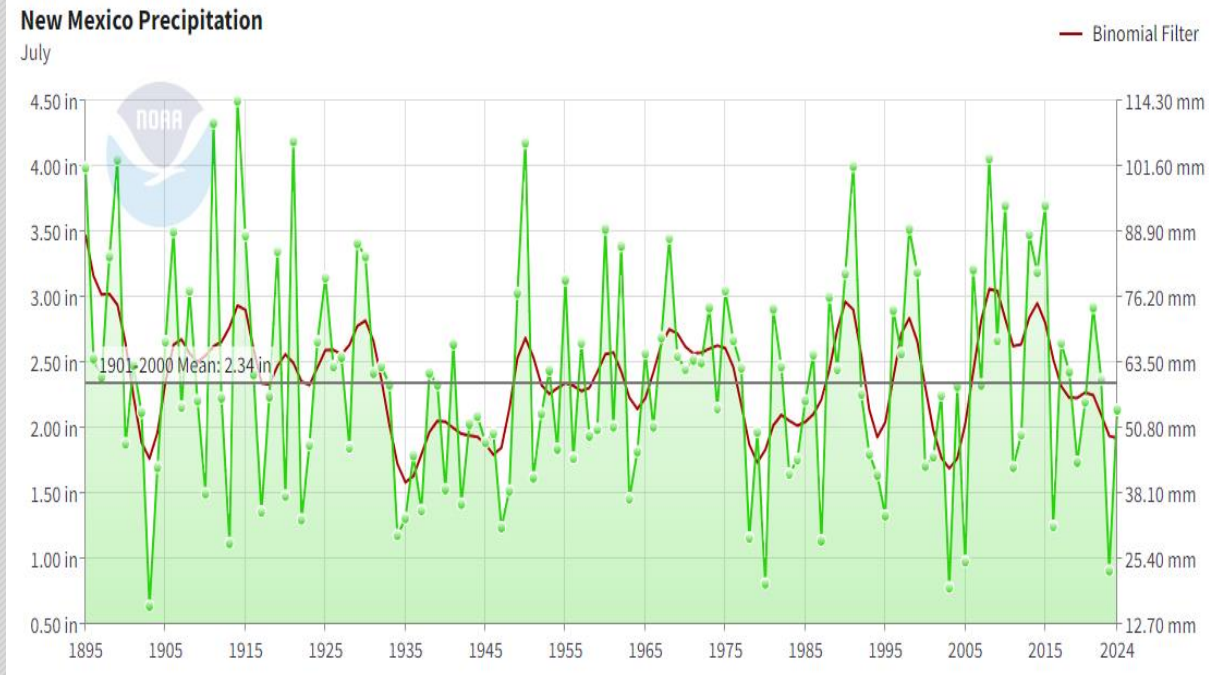


Temperature

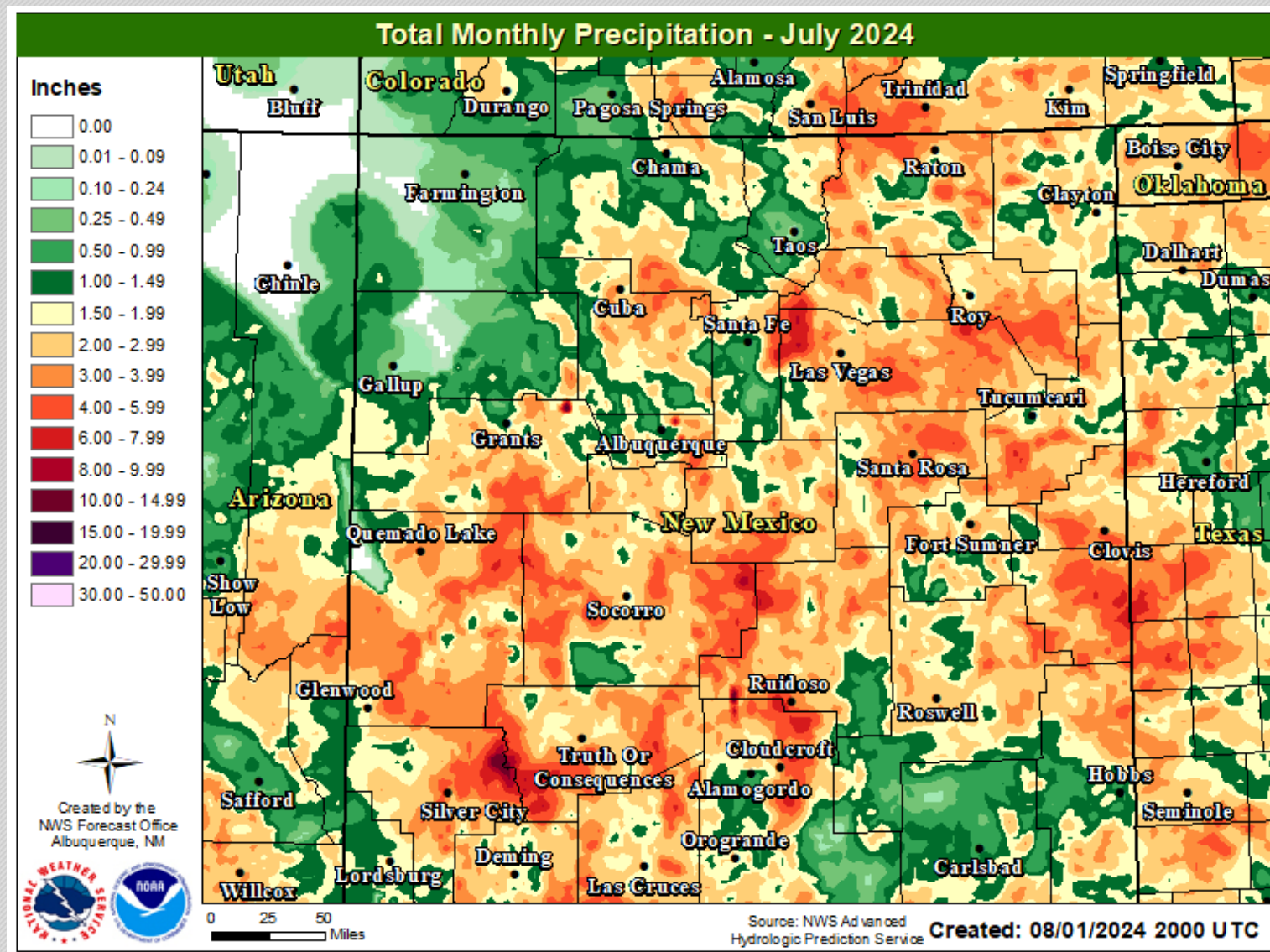


The July 2024 average statewide temperature was 74.9°, which was 2.2° above the long-term normal of 72.7° (1901-2000). This ranked as the 16th warmest July on record (1895-2024).

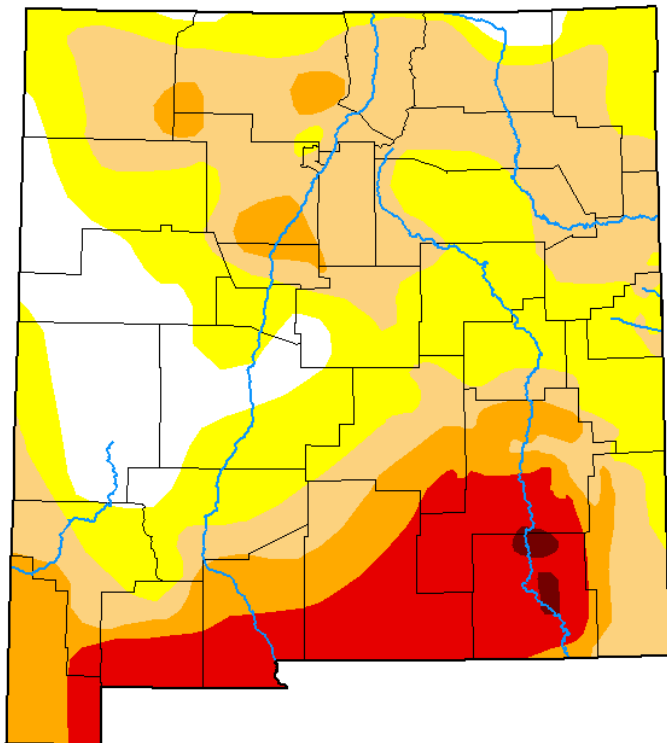
Precipitation



The July 2024 average statewide precipitation was 2.14", which was 0.20" below the long-term normal of 2.34" (1901-2000). This ranked as the 52nd driest July on record (1895-2024).



U.S. Drought Monitor New Mexico



July 2, 2024

(Released Wednesday, Jul. 3, 2024)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	12.19	87.81	56.66	24.33	12.69	0.43
Last Week 06-25-2024	2.97	97.03	62.97	25.91	12.69	0.43
3 Months Ago 04-02-2024	1.76	98.24	76.24	37.77	16.72	3.51
Start of Calendar Year 01-02-2024	0.71	99.29	94.04	79.22	38.39	6.48
Start of Water Year 09-26-2023	0.00	100.00	96.87	67.52	32.31	6.85
One Year Ago 07-04-2023	55.79	44.21	18.89	6.93	0.00	0.00

Intensity:



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>

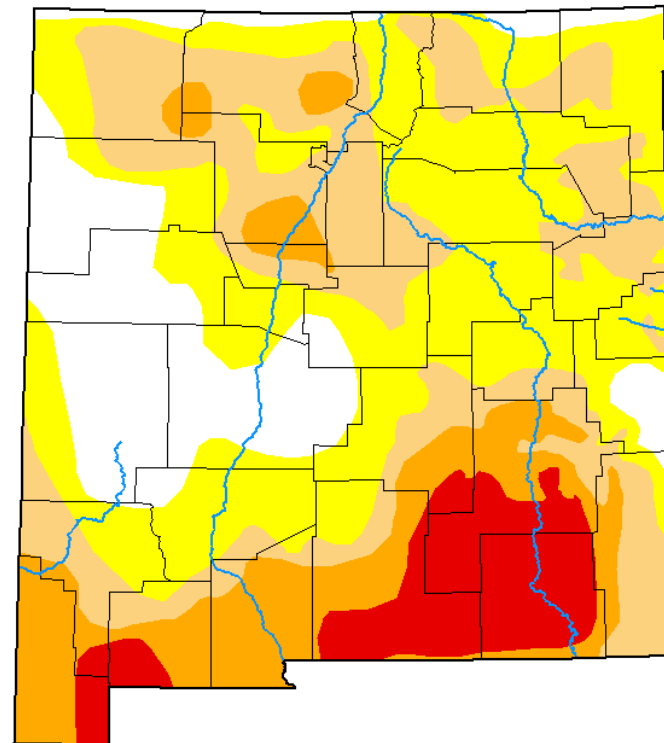
Author:

Adam Hartman
NOAA/NWS/NCEP/CPC



droughtmonitor.unl.edu

U.S. Drought Monitor New Mexico



July 30, 2024

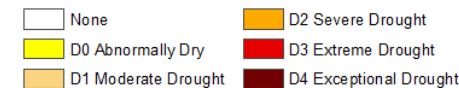
(Released Thursday, Aug. 1, 2024)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	17.06	82.94	48.18	23.06	9.33	0.00
Last Week 07-23-2024	17.05	82.95	48.18	23.06	9.33	0.00
3 Months Ago 04-30-2024	3.49	96.51	74.41	35.67	13.42	1.53
Start of Calendar Year 01-02-2024	0.71	99.29	94.04	79.22	38.39	6.48
Start of Water Year 09-26-2023	0.00	100.00	96.87	67.52	32.31	6.85
One Year Ago 08-01-2023	5.72	94.28	46.89	12.99	0.00	0.00

Intensity:



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:

Lindsay Johnson
National Drought Mitigation Center



droughtmonitor.unl.edu

Gradual drought improvements seen during June continued during July with minor reductions observed in each drought category. The state is now free of exceptional drought, however extreme drought persists across the southeast.

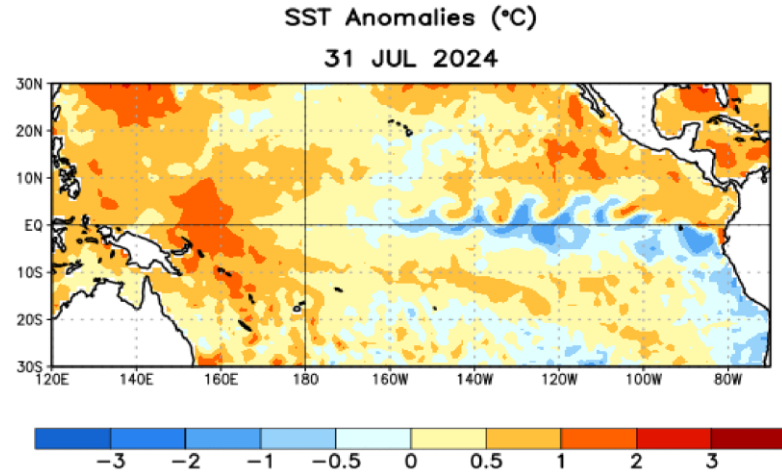


Figure 1. Average sea surface temperature (SST) anomalies (°C) for the week centered on 31 July 2024. Anomalies are computed with respect to the 1991-2020 base period weekly means.

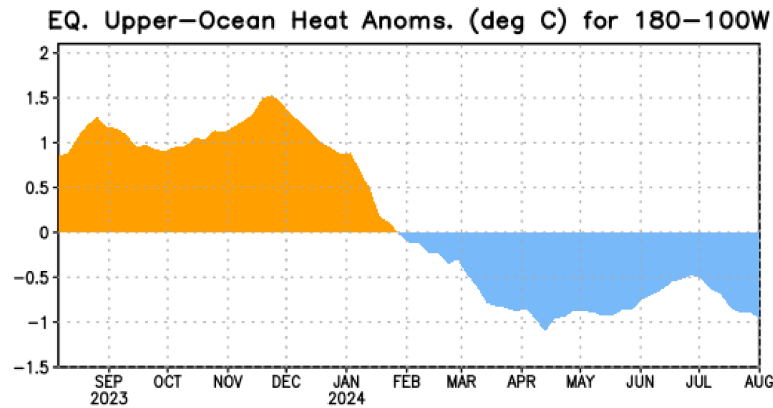


Figure 3. Area-averaged upper-ocean (0-300m) heat content anomaly (°C) in the equatorial Pacific (5°N-5°S, 180°-100°W). The heat content anomaly is computed as the departure from the 1991-2020 base period pentad means.

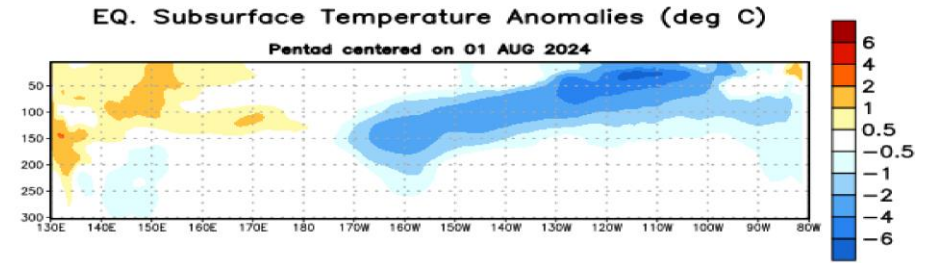


Figure 4. Depth-longitude section of equatorial Pacific upper-ocean (0-300m) temperature anomalies (°C) centered on the pentad of 1 August 2024. Anomalies are departures from the 1991-2020 base period pentad means.

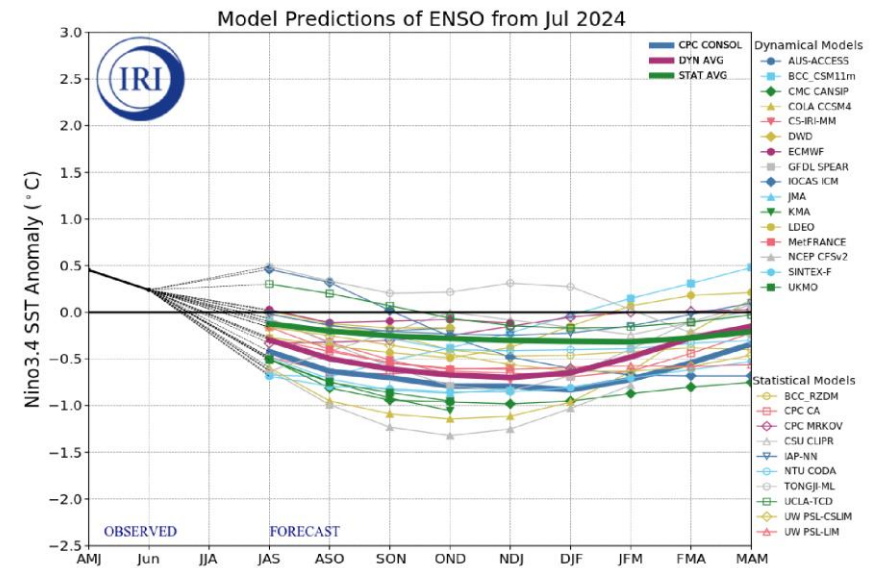
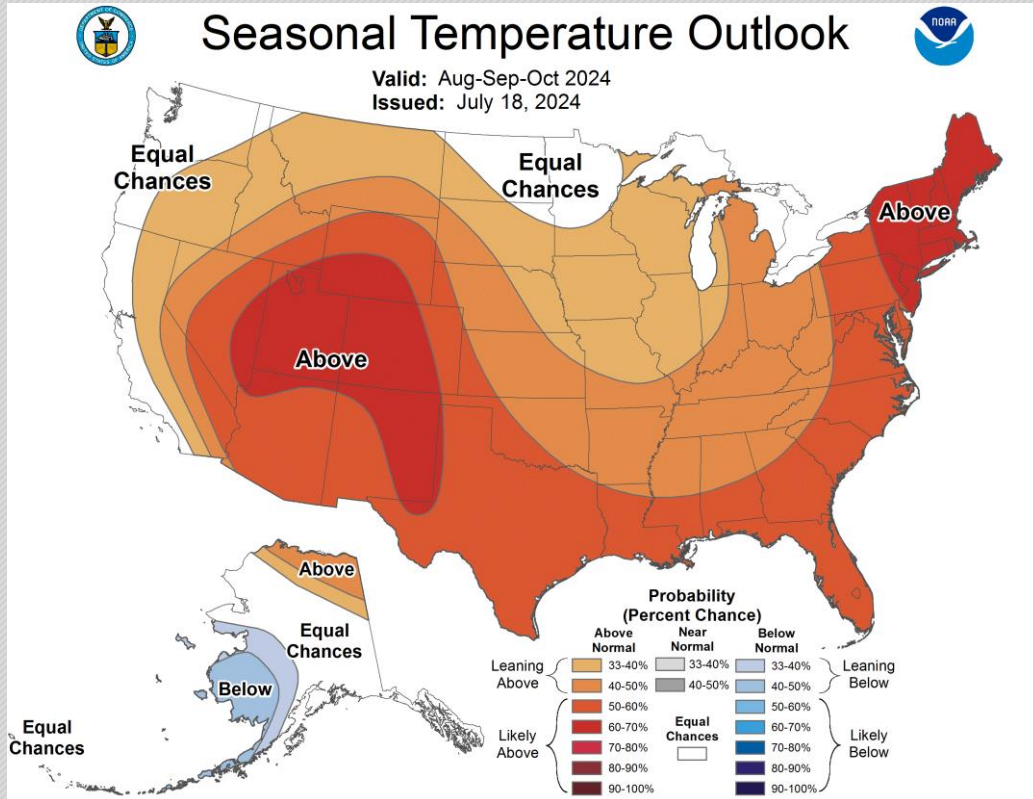
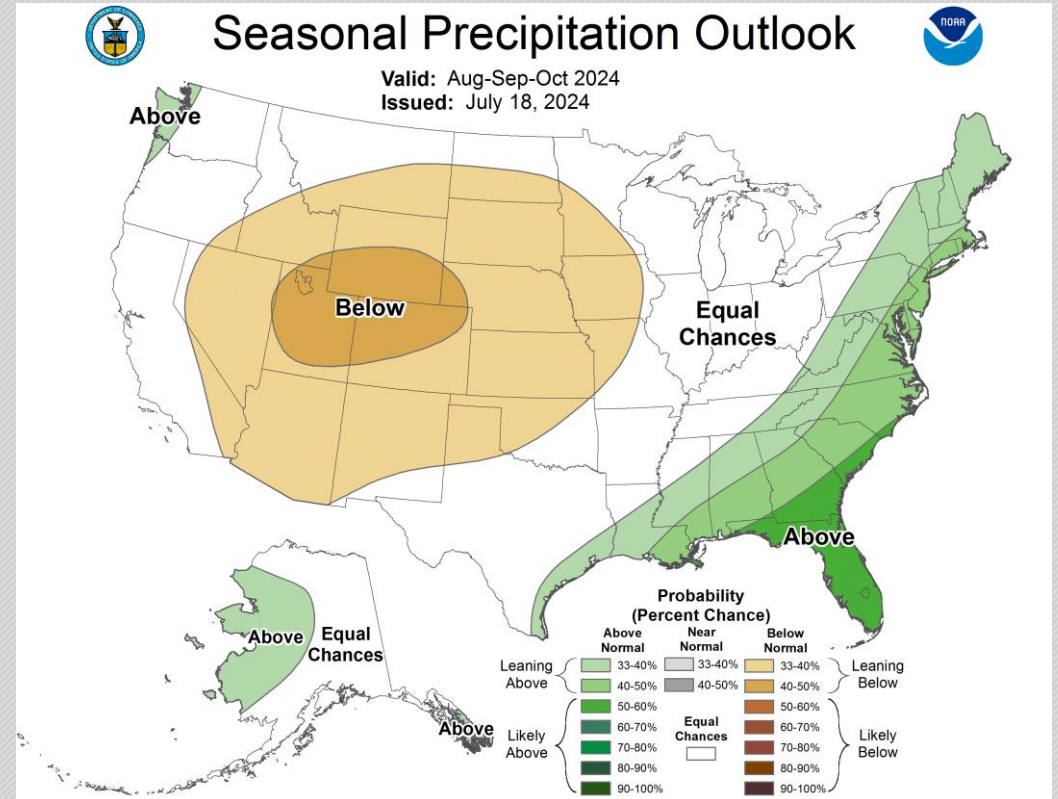


Figure 6. Forecasts of sea surface temperature (SST) anomalies for the Niño 3.4 region (5°N-5°S, 120°W-170°W). Figure updated 19 July 2024 by the International Research Institute (IRI) for Climate and Society.

Temperature August-September-October



Precipitation August-September-October

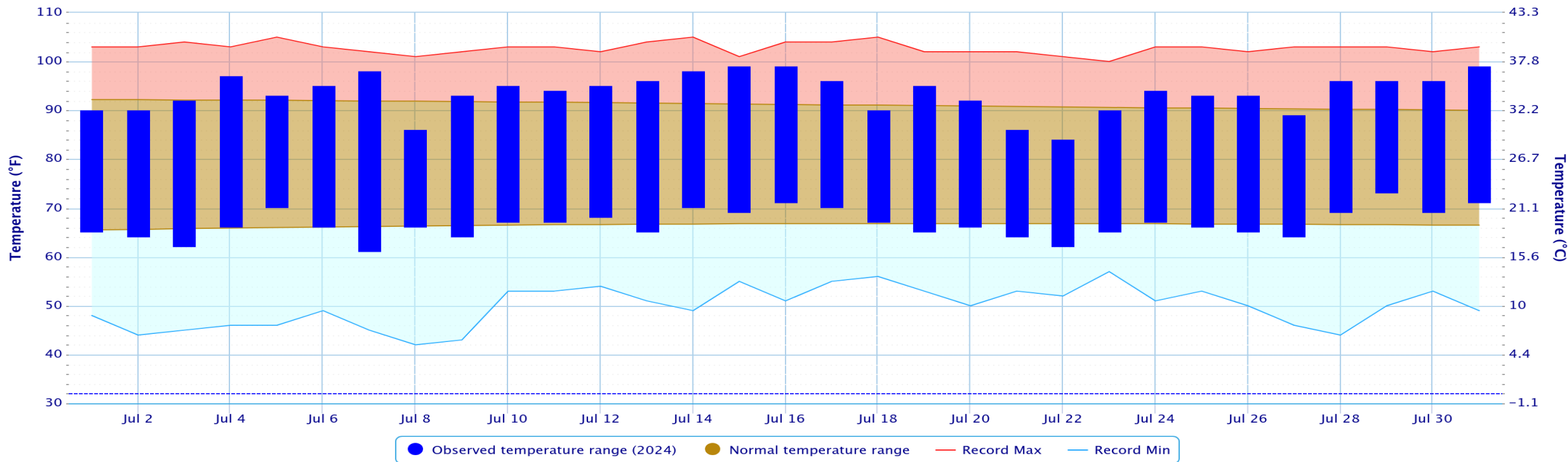


Below average precipitation and above average temperatures are favored during the late summer/early Fall time period in New Mexico.

Average Temperature: 80.0°

Daily Temperature Data – ALBUQUERQUE INTL AP, NM

Period of Record – 1891-12-01 to 2024-08-08. Normals period: 1991-2020. Click and drag to zoom chart.



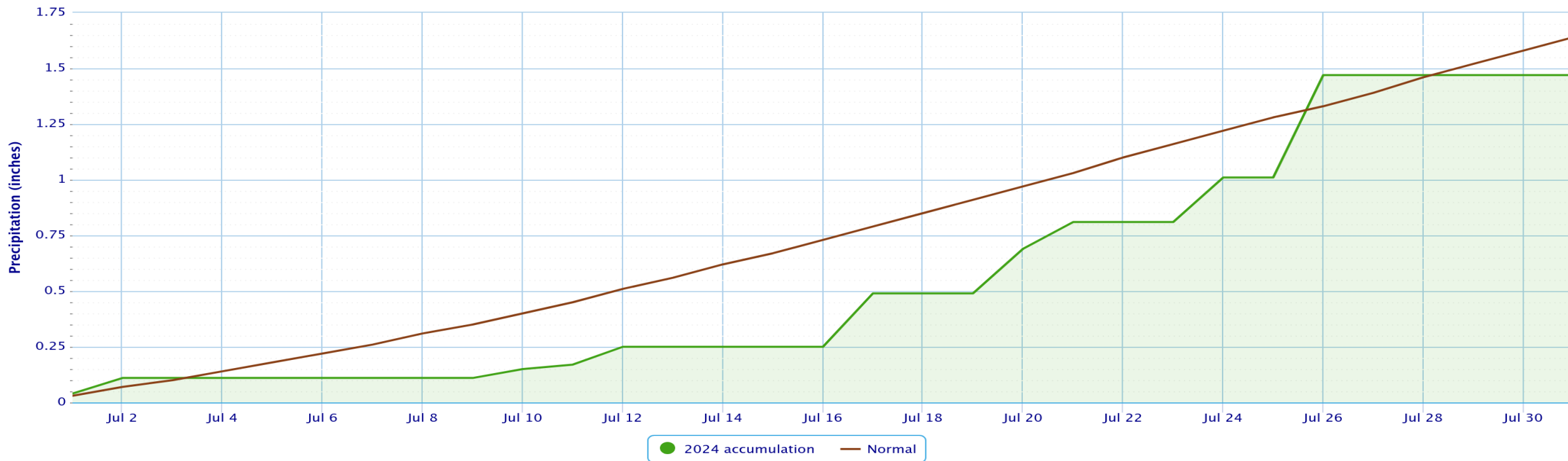
Powered by ACIS

The July 2024 average temperature for Albuquerque was 80.0°, which was 1.1° above the normal of 78.9°. The average maximum temperature for the month was 93.5°. This was 2.3° above the normal average maximum temperature of 91.2°. The average minimum temperature for the month was 66.6°. This was 0.1° above the normal average minimum temperature of 66.5°. This ranked as the 23rd warmest July on record.

Precipitation: 1.47"

Accumulated Precipitation – ALBUQUERQUE INTL AP, NM

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

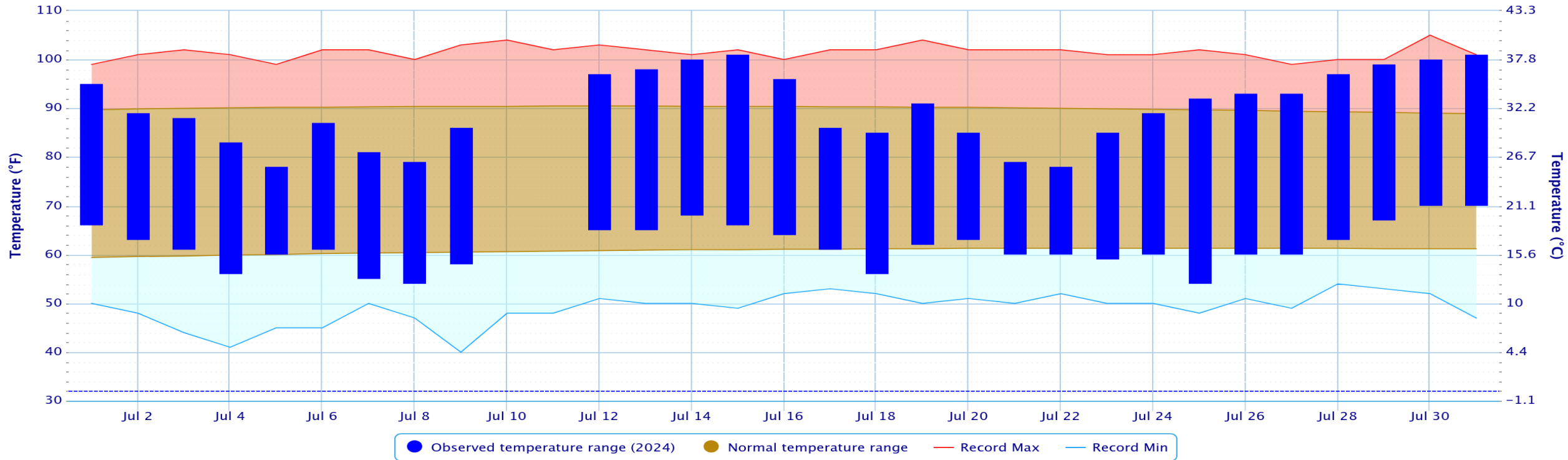


The July 2024 precipitation for Albuquerque was 1.47", which was 0.17" below the normal of 1.64". This ranked as the 77th driest July on record.

Average Temperature: 75.8°

Daily Temperature Data – CLAYTON MUNICIPAL AIR PARK, NM

Period of Record – 1896-02-01 to 2024-08-08. Normals period: 1991-2020. Click and drag to zoom chart.

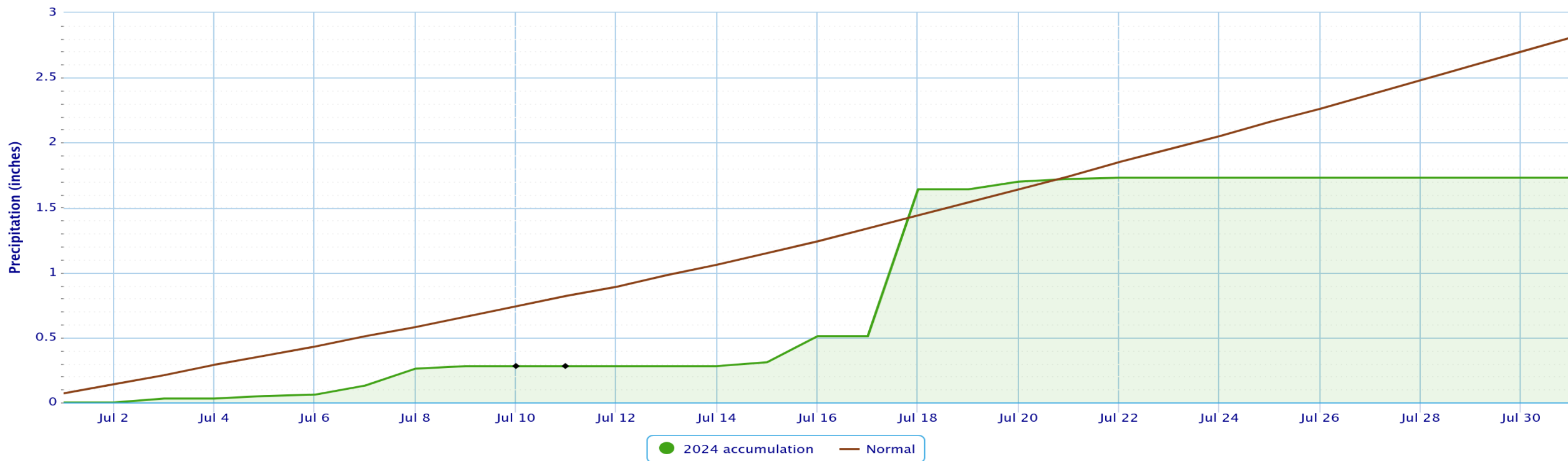


The July 2024 average temperature for Clayton was 75.8°, which was 0.4° above the normal of 75.4°. The average maximum temperature for the month was 90.0° which is same the normal average maximum temperature of 90.0°. The average minimum temperature for the month was 61.6°. This was 0.8° above the normal average minimum temperature of 60.8°. This ranked as the 34th warmest July on record.

Precipitation: 1.73"

Accumulated Precipitation – CLAYTON MUNICIPAL AIR PARK, NM

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

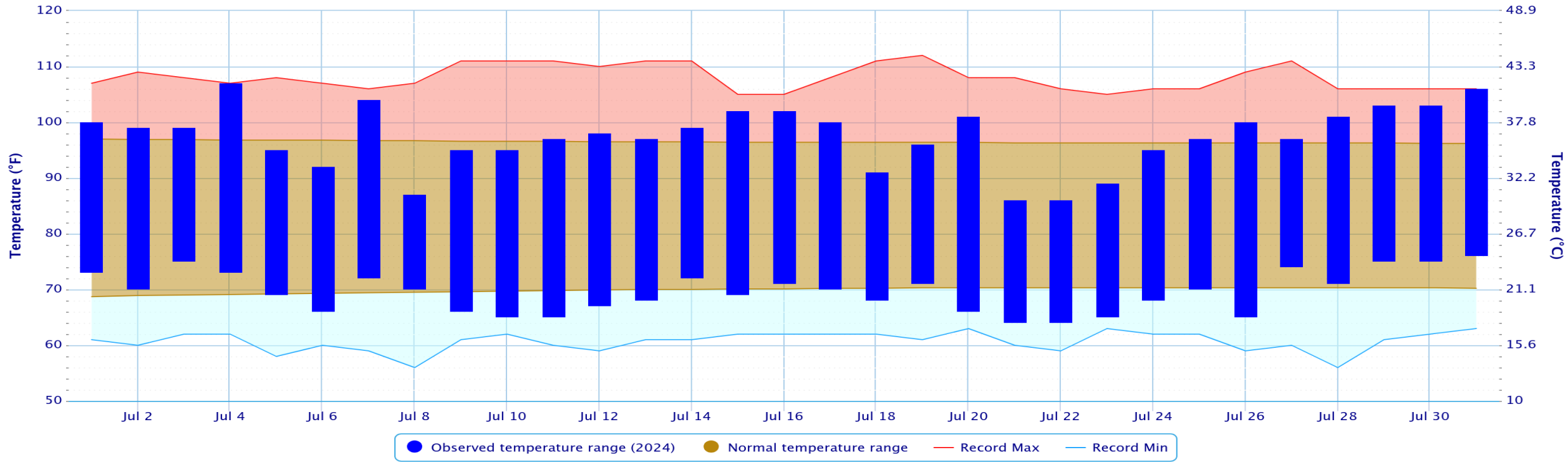


The July 2024 precipitation for Clayton was 1.73", which was 0.92" below the normal of 2.81". This ranked as the 43rd driest July on record.

Average Temperature: 83.4°

Daily Temperature Data – ROSWELL INDUSTRIAL AIR PARK, NM

Period of Record – 1946-12-01 to 2024-08-08. Normals period: 1991-2020. Click and drag to zoom chart.



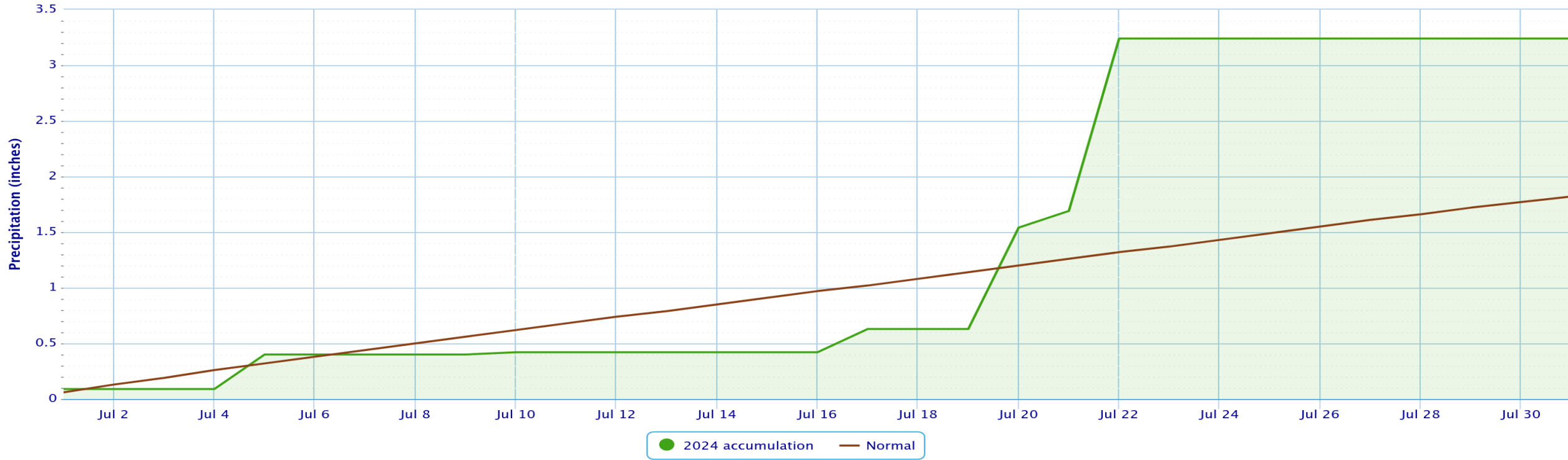
Powered by ACIS

The July 2024 average temperature for Roswell was 83.4°, which was 0.2° above the normal of 83.2°. The average maximum temperature for the month was 97.4°. This was 0.9° above the average maximum temperature of 96.5°. The average minimum temperature for the month was 69.5°. This was 0.4° below the normal average minimum temperature of 69.9°. This ranked as the 16th warmest July on record.

Precipitation: 3.24"

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 July 2024 precipitation for Roswell was 3.24", which was 1.42" above the normal of 1.82". This ranked as the 10th wettest July on record.








Event Type	Date	County	Magnitude	Type	Event Narrative
Thunderstorm Wind	7/1/2024	VALENCIA	51	Gust	Outflow from approaching thunderstorms produced a 59 mph wind gust at the Belen Regional Airport.
Thunderstorm Wind	7/1/2024	SOCORRO	59	Gust	Wind gust of 68 mph at the Mine Mesonet on the White Sands Missile Range.
Hail	7/2/2024	LOS ALAMOS	0.88"		A trained spotter in Los Alamos reported nickel size hail from a thunderstorm.
Thunderstorm Wind	7/3/2024	COLFAX	51	Gust	A thunderstorm produced a microburst at the Raton Crews Airport resulting in a peak wind gust of 59 mph.
Hail	7/4/2024	COLFAX	1.5"		A severe thunderstorm dropped ping pong size hail a few miles south of Raton along Interstate 25.
Hail	7/5/2024	MORA	1.75"		A severe thunderstorm produced hail up to golf ball size and a peak wind gust of 60 mph in Rainsville.
Hail	7/5/2024	LINCOLN	1.75"		A public spotter reported golf ball size hail from a severe thunderstorm a few miles east northeast of Glencoe.
Hail	7/5/2024	GUADALUPE	1"		A cooperative observer a mile south southeast of Dilia observed quarter size hail from a severe thunderstorm.
Hail	7/5/2024	SAN MIGUEL	1"		An observer at Tecolotito observed quarter size hail from a severe thunderstorm.
Thunderstorm Wind	7/5/2024	CHAVES	56	Gust	The Dunken mesonet station observed a peak wind gust of 65 mph from a severe thunderstorm.
Tornado	7/5/2024	SAN MIGUEL			Brief and ragged tornado touched down in the rural countryside of San Miguel County north of Las Vegas and I-25.
Hail	7/7/2024	CURRY	0.75"		A trained spotter a few miles near Ranchville reported half inch to penny size hail from a brief strong thunderstorm.
Hail	7/7/2024	CURRY	1"		Quarter size hail from a severe thunderstorm just north of Cannon AFB.
Flash Flood	7/8/2024	CURRY			Cannon AFB weather reported spotty flooding with 8 to 12 inches depth of water in spots
Thunderstorm Wind	7/8/2024	CURRY	54	Gust	A peak wind gust of 62 mph was observed at Cannon AFB from nearby thunderstorms.
Hail	7/8/2024	COLFAX	1"		A public spotter reported quarter size hail from a severe thunderstorm a few miles east of Ute Park.
Hail	7/8/2024	SANDOVAL	0.75"		Penny size hail from a strong thunderstorm near Fenton Lake State Park.
Hail	7/8/2024	SANDOVAL	0.88"		A public spotter observed nickel size hail near San Ysidro from a strong thunderstorm.
Flash Flood	7/8/2024	SAN MIGUEL			Flash flooding occurred in Las Vegas on Mills Avenue near the state Behavior Health Institute Building.
Flash Flood	7/9/2024	LINCOLN			Flash flood and debris flows in and around Ruidoso from Upper Canyon to Ruidoso Downs.
Tornado	7/9/2024	LINCOLN			Landspout near Ruidoso in the Upper Canyon area.
Flash Flood	7/10/2024	LINCOLN			Flash flooding and debris flows in and around Ruidoso from burn scar flash flooding.
Hail	7/9/2024	COLFAX	1"		A severe thunderstorm dropped quarter size hail in Ute Park.

*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	County	Magnitude	Type	Event Narrative
Hail	7/9/2024	SOCORRO	1"		A trained spotter reported 1 inch hail in Chamizal from a severe thunderstorm.
Thunderstorm Wind	7/10/2024	CHAVES	59	Gust	A mesonet at Dunken measured a wind gust of 68 mph from nearby thunderstorms.
Thunderstorm Wind	7/10/2024	SOCORRO	56	Gust	Peak wind gust of 64 mph from nearby thunderstorms in the White Sands Missile Range.
Thunderstorm Wind	7/11/2024	SAN JUAN	52	Gust	Thunderstorm outflow winds partially removed the roof of a residence in Little Water, New Mexico.
Wildfire	7/1/2024	SOUTHWEST MOUNTAINS			The Fisher Wildfire was a lightning started wildfire within the San Mateo Mountains of western Socorro Cty.
Wildfire	7/4/2024	SOUTHWEST MOUNTAINS			The Ridge Wildfire started in the Gila National Forest in southern Catron County reaching a total size of 4,257 acres.
Wildfire	7/9/2024	TUSAS MOUNTAINS INCLUDING CHAMA			The lightning caused Yeso Wildfire was discovered near the Mesa del Yeso in eastern Rio Arriba County.
Wildfire	7/11/2024	FAR NORTHWEST HIGHLANDS			The lightning caused Mestenas Canyon Wildfire was located roughly 12 miles southwest of Dulce along U.S. Highway 64.
Wildfire	7/5/2024	SOUTHWEST MOUNTAINS			The lightning caused Lolo Wildfire was located near Escondido Mountain six miles northeast of Quemado Lake.
Flash Flood	7/17/2024	SANTA FE			Flash flooding on NM 50 b/w mile markers 1 and 3.
Flash Flood	7/18/2024	SAN MIGUEL			Flash flooding on the Hermits Peak/Calf Canyon burn scar along NM Highway 94 just north and west of Sapello, NM.
Flash Flood	7/18/2024	SANTA FE			Flash flooding on NM Highway 50 near exit 299 near Glorietta, NM. There was a foot of water over the roadway.
Thunderstorm Wind	7/17/2024	HARDING	50	Gust	Trained spotter reported 3 inch tree limbs snapped from tree. No damage was reported.
Thunderstorm Wind	7/17/2024	DE BACA	50	Gust	
Thunderstorm Wind	7/18/2024	SOCORRO	55	Gust	WSM40 Mine White Sands Missile Range recorded a 63mph thunderstorm wind gust.
Thunderstorm Wind	7/19/2024	QUAY	50	Gust	The Tucumcari Airport recorded a 58mph thunderstorm wind gust.
Flash Flood	7/19/2024	LINCOLN			Flash flooding and debris flow in and around Ruidoso. Swift water rescues and evacuations were ordered.
Flash Flood	7/20/2024	LINCOLN			Flash flooding and debris flow in and around Ruidoso. This round ended up shutting down Ruidoso Downs.
Flash Flood	7/20/2024	BERNALILLO			Tijeras Arroyo overtopped Via Sedillo for the second time in a week.
Thunderstorm Wind	7/21/2024	BERNALILLO	50	Gust	A cluster of thunderstorms produced a 58 mph wind gust at the Albuquerque Sunport.
Thunderstorm Wind	7/21/2024	SOCORRO	51	Gust	The Sevilleta mesonet station recorded a 59 mph wind gust from thunderstorm outflow.
Thunderstorm Wind	7/22/2024	LINCOLN	54	Gust	The Phillips Hill White Sands Missile Range mesonet station recorded peak thunderstorm wind gusts of 62 mph.
Flash Flood	7/21/2024	ROOSEVELT			Flash flooding, 6 inches across parts of Portales including U.S. 70, Kilgore Road, and 18th Street.
Flash Flood	7/21/2024	LINCOLN			Flash flooding within the burn scars in and around Ruidoso.
Flash Flood	7/22/2024	MORA			Flash flooding at mile marker 7 along NM 434 which prompted a road closure.
Flash Flood	7/28/2024	LINCOLN			Emergency manager reported Brady Canyon Dr. and Ponderosa Dr. were closed due to burn scar flash flooding.
Flash Flood	7/29/2024	LINCOLN			Flash flooding and debris flow in and around Ruidoso from Alto to Ruidoso Downs.
Wildfire	7/18/2024	FAR NORTHWEST HIGHLANDS			A lightning start wildfire 27 miles north of Cuba that was managed to 5,800 acres.

*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/>

-  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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