

# August 2024 Climate & Weather Summary

Issued: September 9, 2024

August 2024 was drier than average in most areas, but that didn't prevent destructive flash flooding from occurring several times in the Ruidoso area from heavy rainfall over the Sacramento complex of burn scars. Flash flooding also occurred over the HPCC burn scar and in other portions of northern NM. There were a couple strong east canyon wind events during August, one of which had winds gusts up to 63 mph in Albuquerque. It was another very hot month that ranked as a top 10 hottest August in Albuquerque, Clayton, and Roswell.



August 31<sup>st</sup> | Chaves County, NM  
Photo courtesy Wendell Malone



August 8<sup>th</sup> | Sapello, NM  
Photo courtesy Dannette Lucero

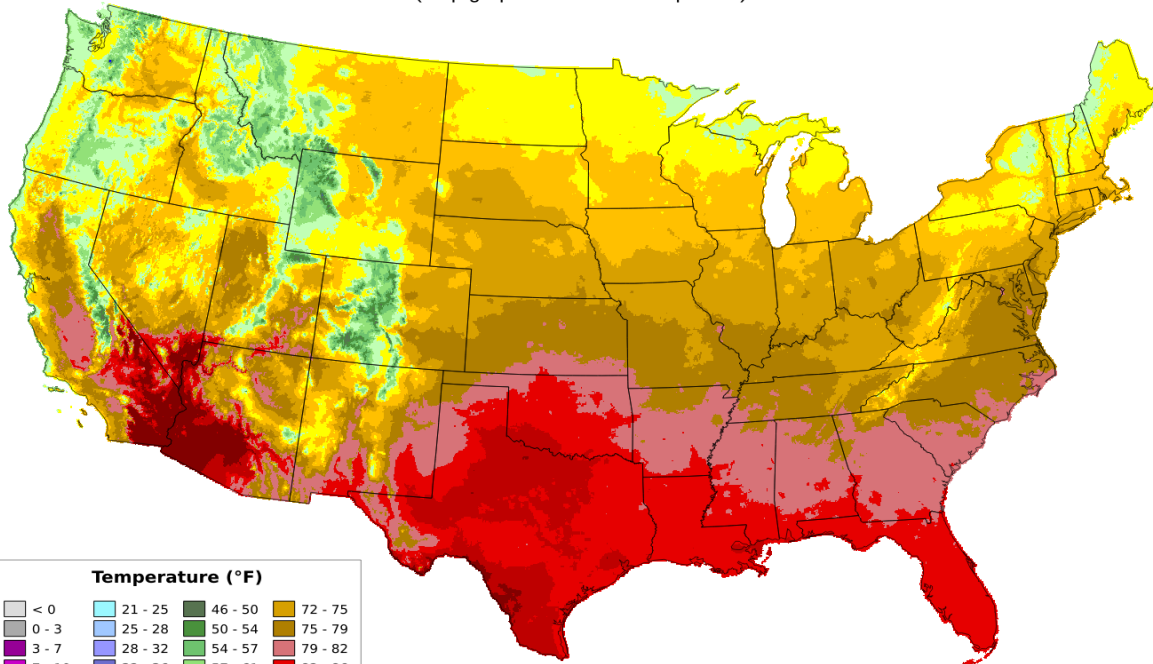


August 9<sup>th</sup> | Santa Cruz, NM  
Photo courtesy Gabe Z

## Temperatures

Average Daily Mean Temperature: 01 Aug 2024 - 31 Aug 2024

Period ending 7 AM EST 31 Aug 2024  
(Map graphic created 01 Sep 2024)



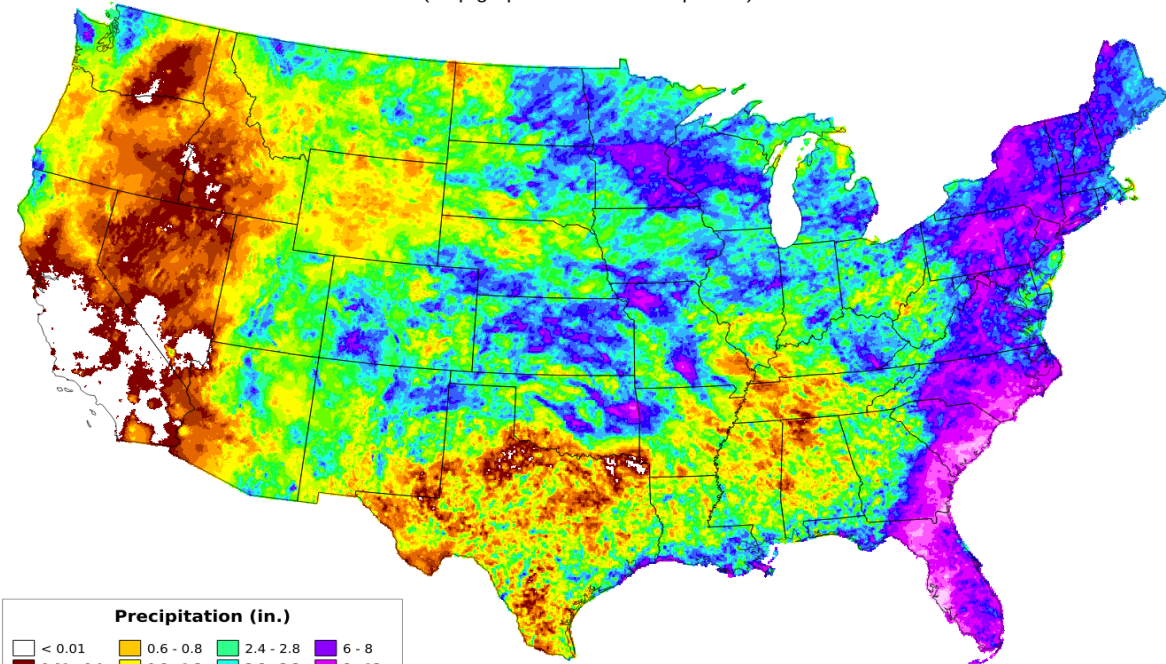
Temperature (°F)			
< 0	21 - 25	46 - 50	72 - 75
0 - 3	25 - 28	50 - 54	75 - 79
3 - 7	28 - 32	54 - 57	79 - 82
7 - 10	32 - 36	57 - 61	82 - 86
10 - 14	36 - 39	61 - 64	86 - 90
14 - 18	39 - 43	64 - 68	> 90
18 - 21	43 - 46	68 - 72	

Copyright (c) 2024, PRISM Climate Group, Oregon State University

## Precipitation

Total Precipitation: 01 Aug 2024 - 31 Aug 2024

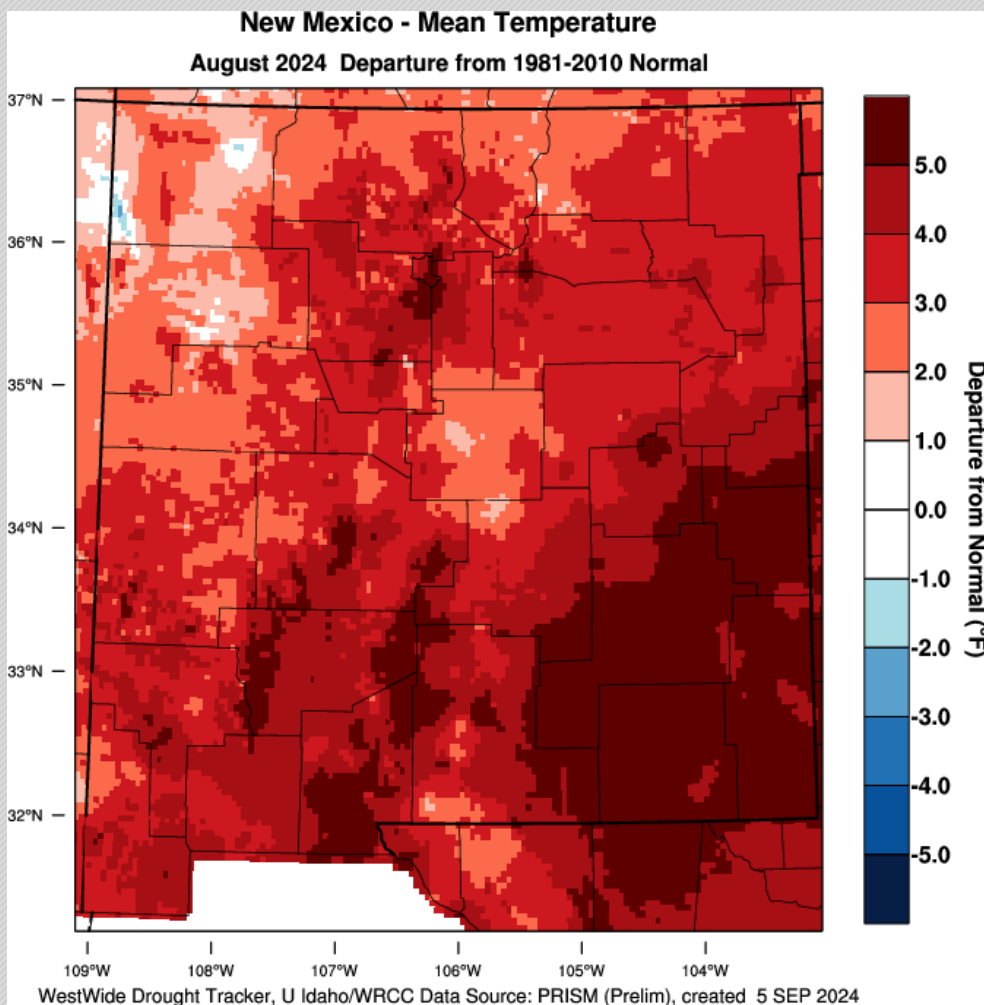
Period ending 7 AM EST 31 Aug 2024  
(Map graphic created 01 Sep 2024)



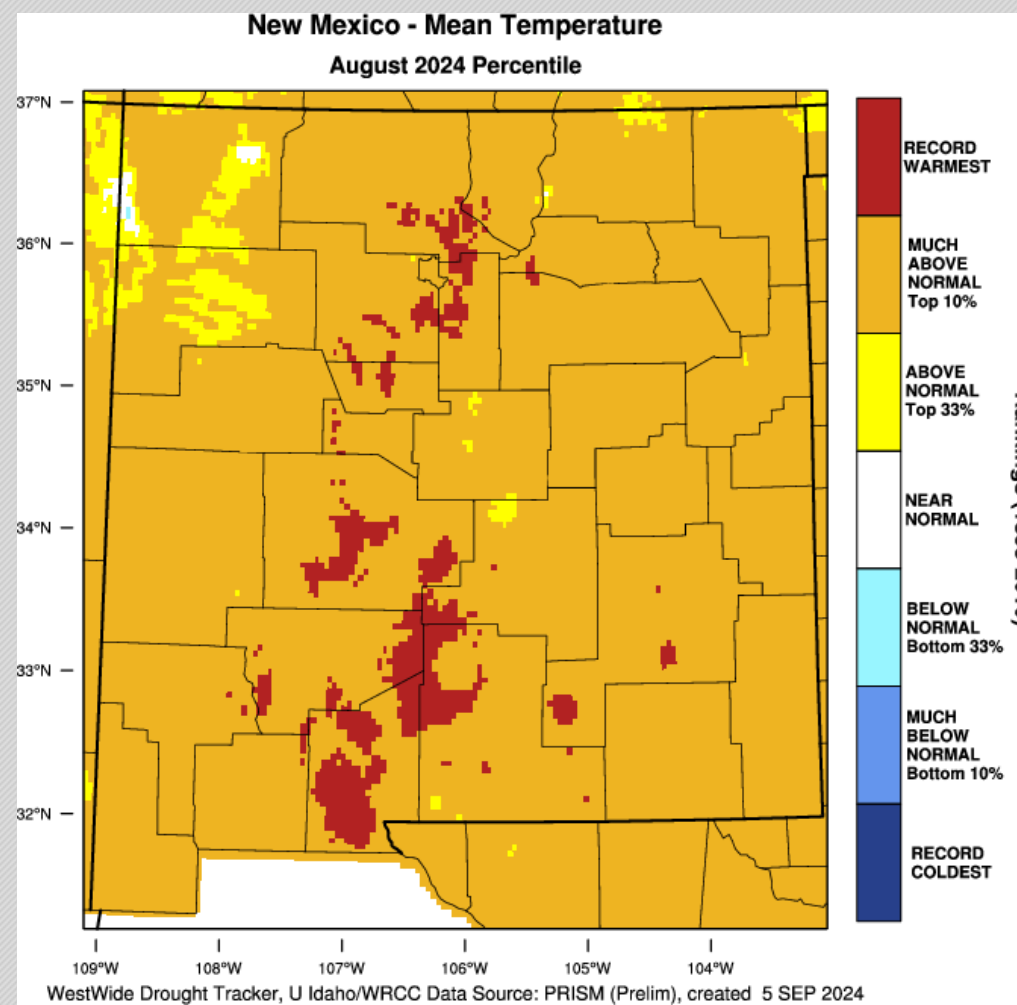
Precipitation (in.)			
< 0.01	0.6 - 0.8	2.4 - 2.8	6 - 8
0.01 - 0.1	0.8 - 1.2	2.8 - 3.2	8 - 12
0.1 - 0.2	1.2 - 1.6	3.2 - 4	12 - 16
0.2 - 0.4	1.6 - 2	4 - 5	16 - 20
0.4 - 0.6	2 - 2.4	5 - 6	> 20

Copyright (c) 2024, PRISM Climate Group, Oregon State University

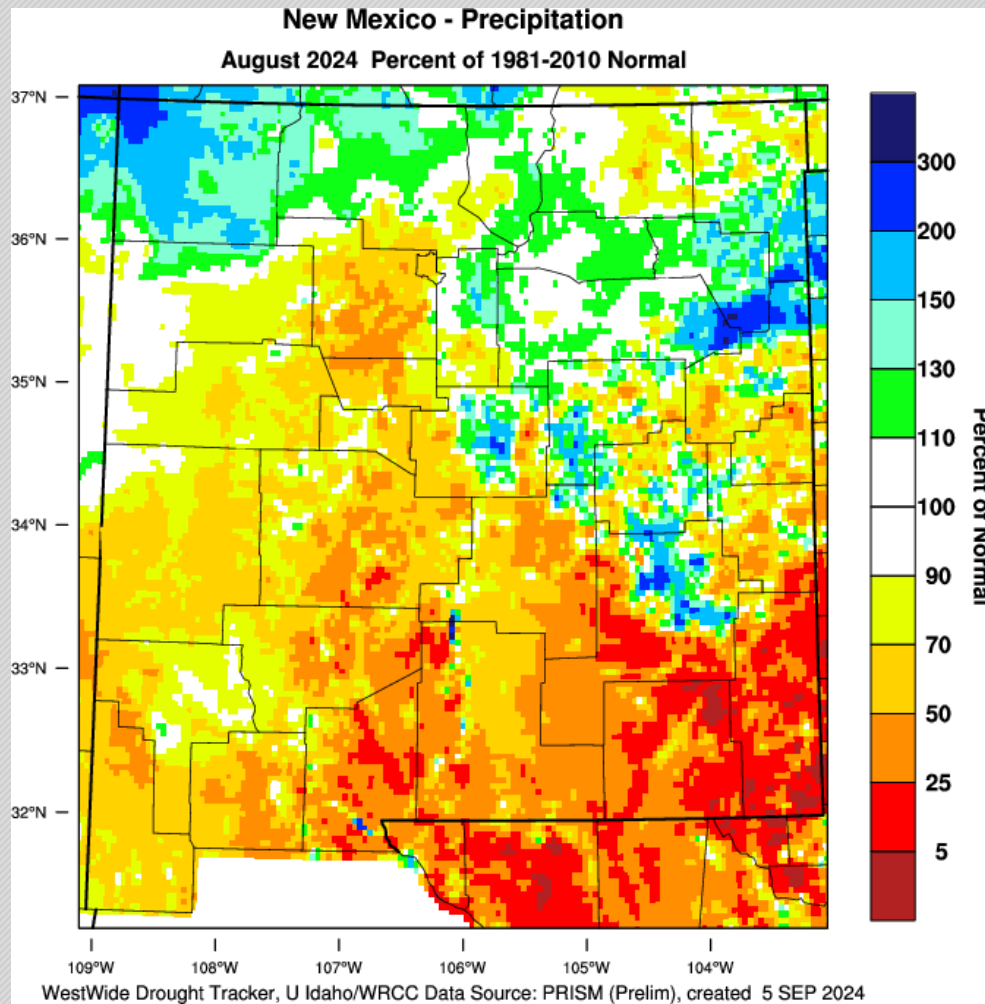
## Anomaly



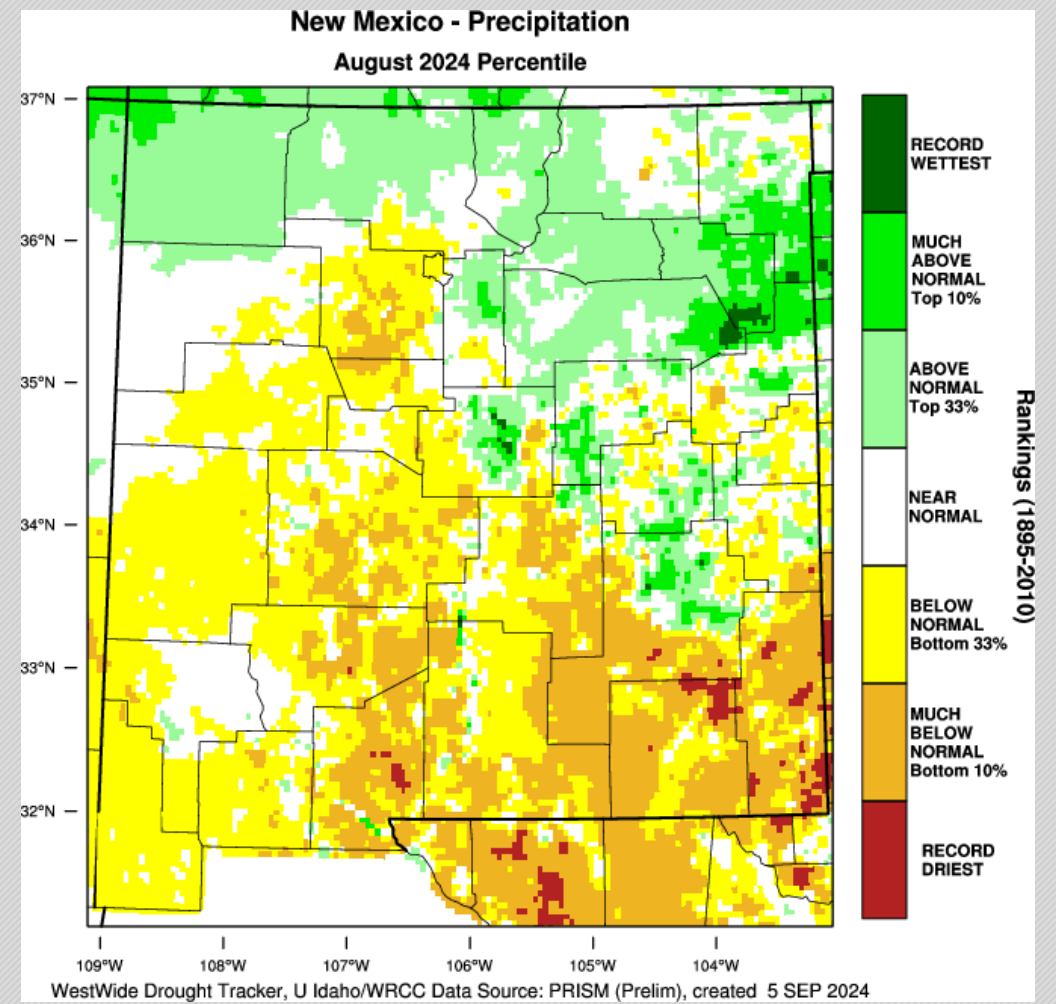
## Percentile

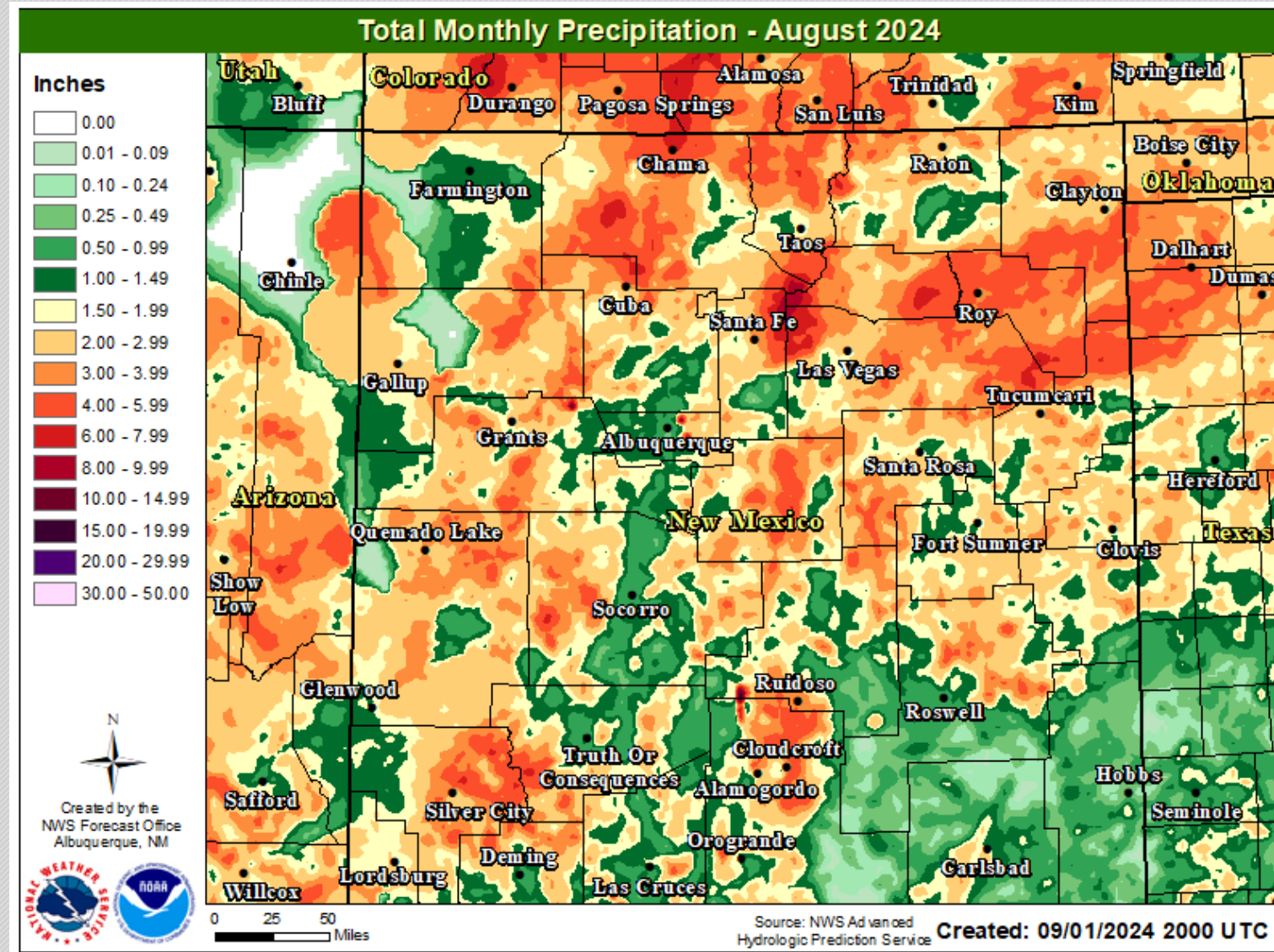


## Anomaly

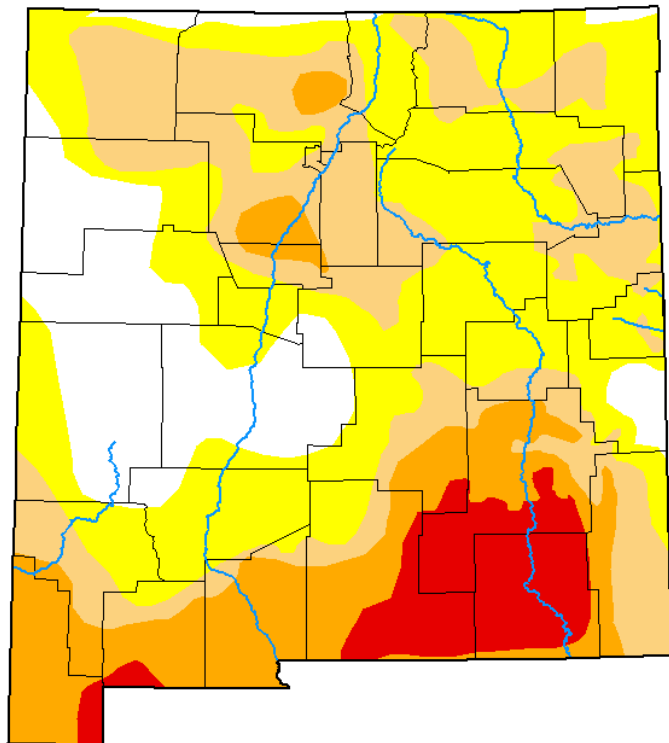


## Percentile





## U.S. Drought Monitor New Mexico



**August 6, 2024**

(Released Thursday, Aug. 8, 2024)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	16.39	83.61	47.65	22.68	7.85	0.00
<b>Last Week</b> 07-30-2024	17.06	82.94	48.18	23.06	9.33	0.00
<b>3 Months Ago</b> 05-07-2024	3.22	96.78	74.41	35.67	13.42	1.53
<b>Start of Calendar Year</b> 01-02-2024	0.71	99.29	94.04	79.22	38.39	6.48
<b>Start of Water Year</b> 09-26-2023	0.00	100.00	96.87	67.52	32.31	6.85
<b>One Year Ago</b> 08-08-2023	4.67	95.33	58.22	16.62	2.19	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>

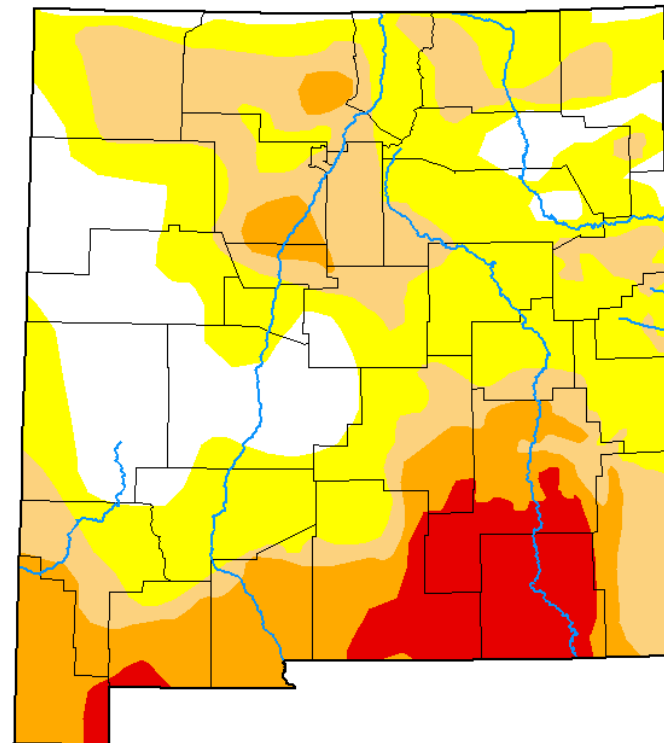
Author:

David Simeral  
Western Regional Climate Center



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

## U.S. Drought Monitor New Mexico



**August 27, 2024**

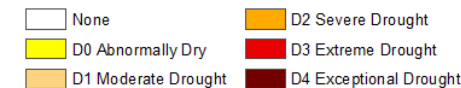
(Released Thursday, Aug. 29, 2024)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	17.78	82.22	45.15	22.48	8.19	0.00
<b>Last Week</b> 08-20-2024	18.61	81.39	44.86	22.46	8.19	0.00
<b>3 Months Ago</b> 05-28-2024	2.40	97.60	73.37	33.09	12.47	1.53
<b>Start of Calendar Year</b> 01-02-2024	0.71	99.29	94.04	79.22	38.39	6.48
<b>Start of Water Year</b> 09-26-2023	0.00	100.00	96.87	67.52	32.31	6.85
<b>One Year Ago</b> 08-29-2023	0.61	99.39	90.24	57.95	14.90	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:

Richard Heim  
NCEI/NOAA



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

Drought conditions remained largely unchanged during August. Severe drought conditions persist in the southeast plains and the abnormally dry to severe drought continues in central and northern New Mexico.

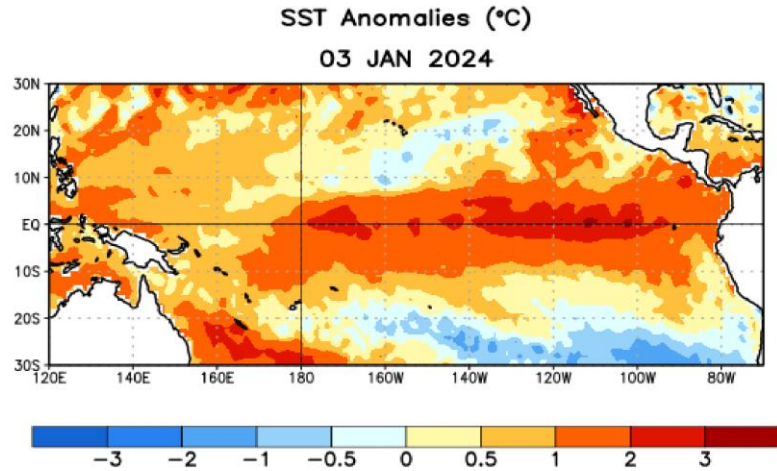


Figure 1. Average sea surface temperature (SST) anomalies (°C) for the week centered on 3 January 2024. Anomalies are computed with respect to the 1991-2020 base period weekly means.

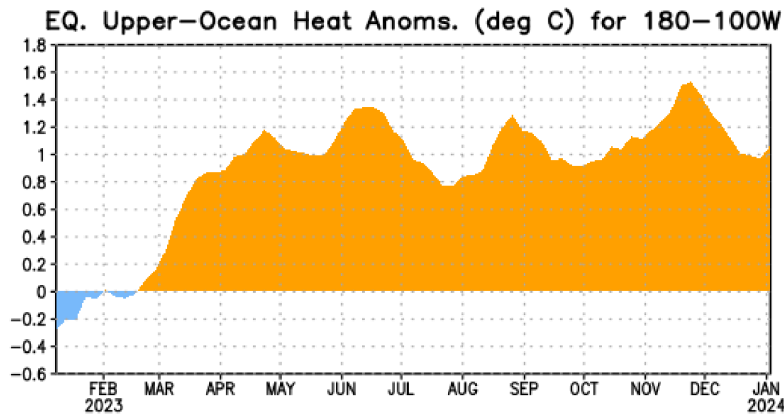


Figure 3. Area-averaged upper-ocean heat content anomaly (°C) in the equatorial Pacific (5°N-5°S, 180°-100°W). The heat content anomaly is computed as the departure from the 1991-2020 base period pentad means.

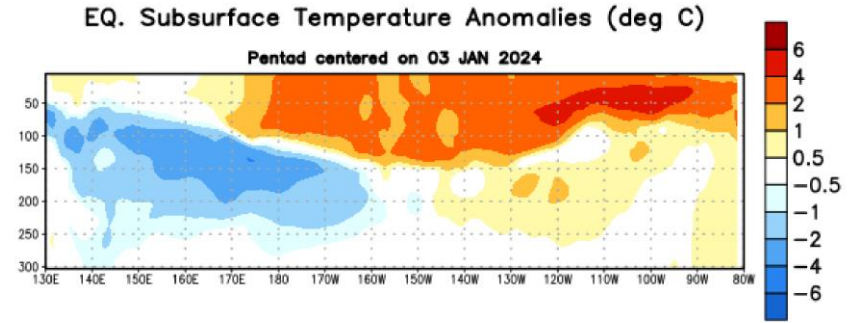


Figure 4. Depth-longitude section of equatorial Pacific upper-ocean (0-300m) temperature anomalies (°C) centered on the pentad of 3 January 2024. Anomalies are departures from the 1991-2020 base period pentad means.

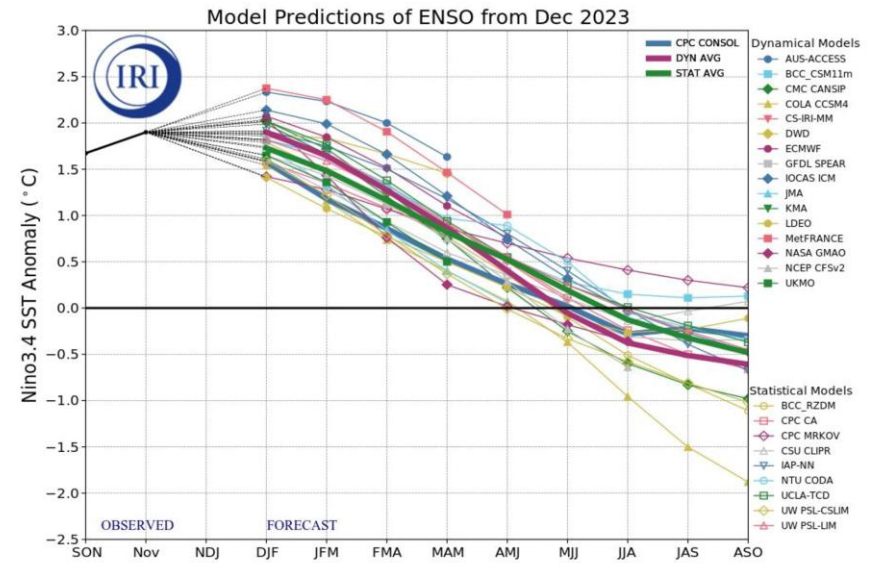
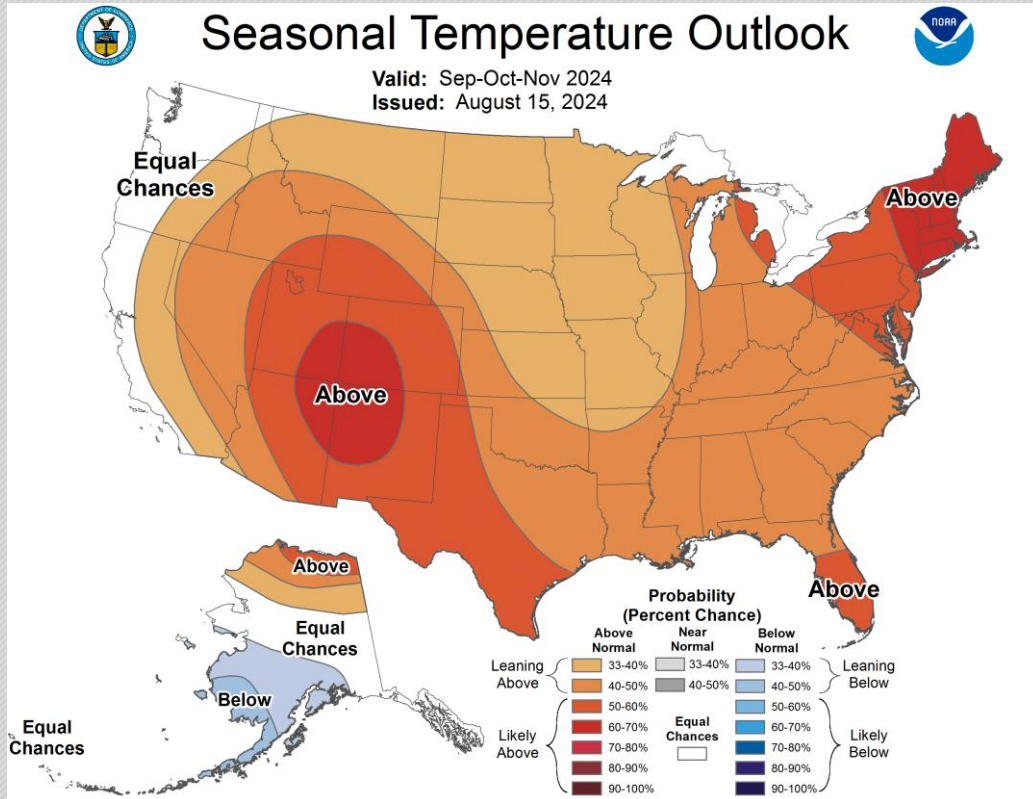
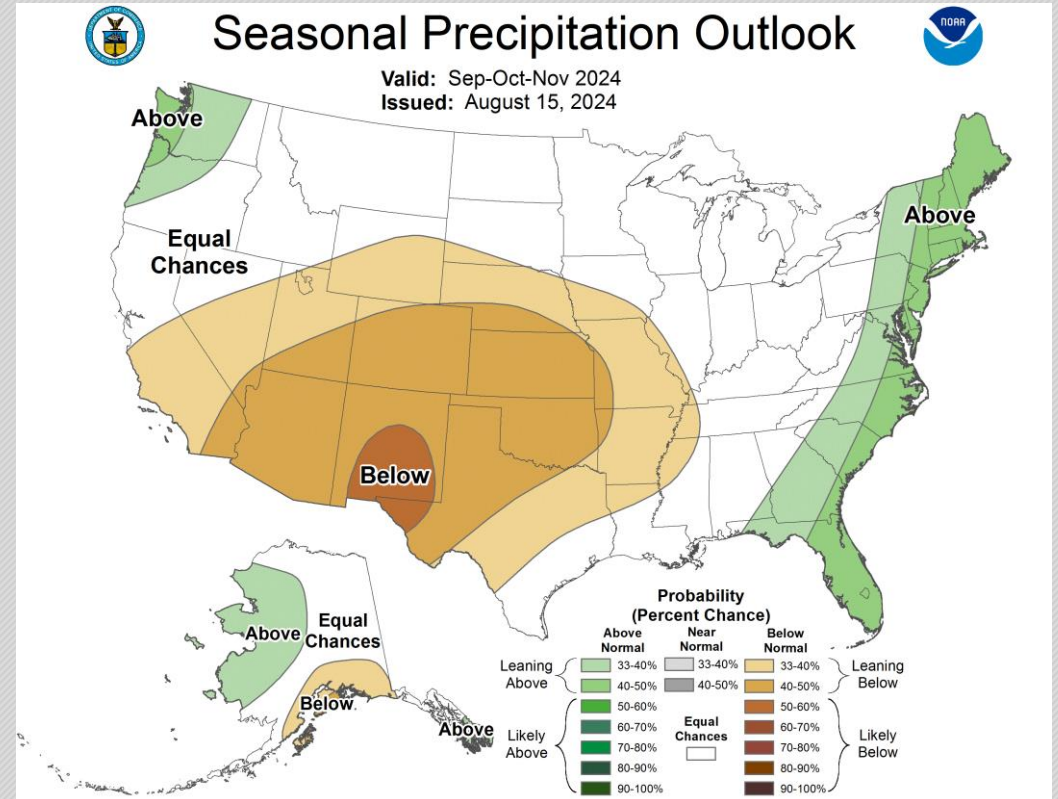


Figure 6. Forecasts of sea surface temperature (SST) anomalies for the Niño 3.4 region (5°N-5°S, 120°W-170°W). Figure updated 19 December 2023 by the International Research Institute (IRI) for Climate and Society.

## Temperature September-October-November



## Precipitation September-October-November



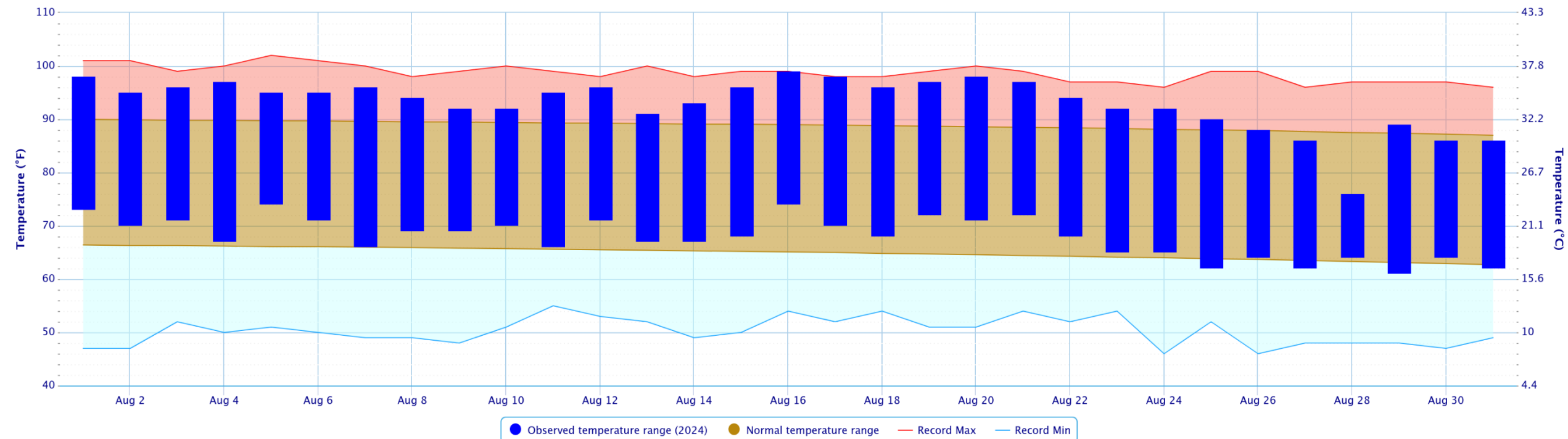
There are increased chances of above average temperatures and below average precipitation in New Mexico this Fall. The confidence in above average temperatures is greatest in the northwest while confidence in below average precipitation is greatest in the southeast.



Average Temperature: 80.5°

Daily Temperature Data – Albuquerque Area, NM (ThreadEx)

Period of Record – 1891-12-01 to 2024-08-31. Normals period: 1991-2020. Click and drag to zoom chart.

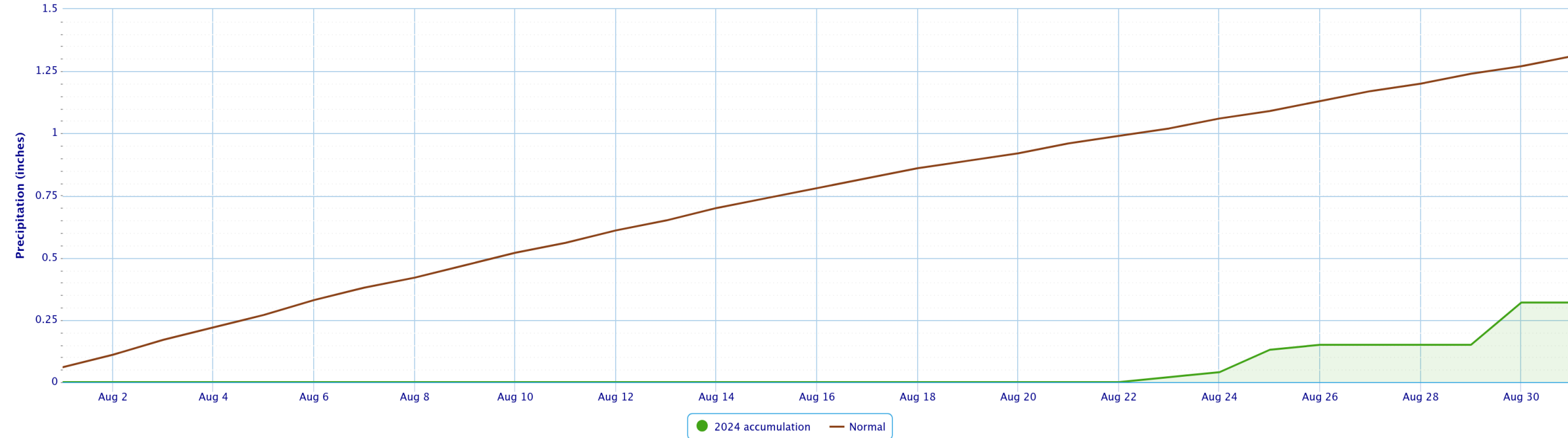


The August 2024 average temperature for Albuquerque was 80.5°, which was 3.6° above the normal of 76.9°. The average maximum temperature for the month was 93.1°. This was 4.3° above the normal average maximum temperature of 88.8°. The average minimum temperature for the month was 67.8°. This was 2.9° above the normal average minimum temperature of 64.9°. This ranked as the 3<sup>rd</sup> warmest August on record.

Precipitation: 0.32”

Accumulated Precipitation – Albuquerque Area, NM (ThreadEx)

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

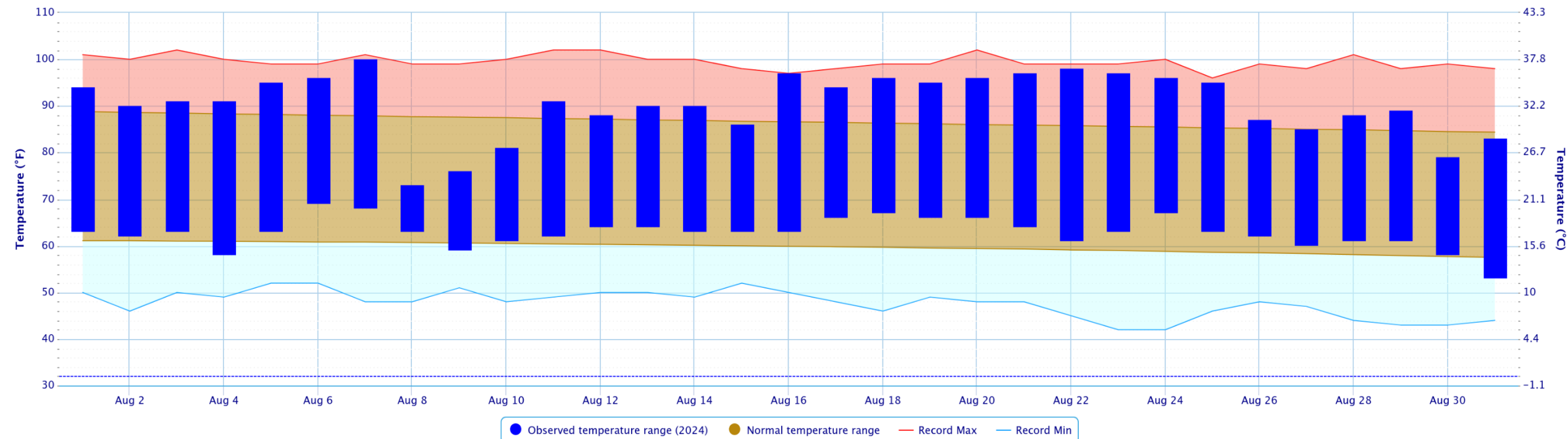


The August 2024 precipitation for Albuquerque was 0.32”, which was 0.99” below the normal of 1.31”. This ranked as the 11<sup>th</sup> driest August on record.

Average Temperature: 76.6°

Daily Temperature Data – Clayton Area, NM (ThreadEx)

Period of Record – 1896-02-01 to 2024-08-31. Normals period: 1991-2020. Click and drag to zoom chart.

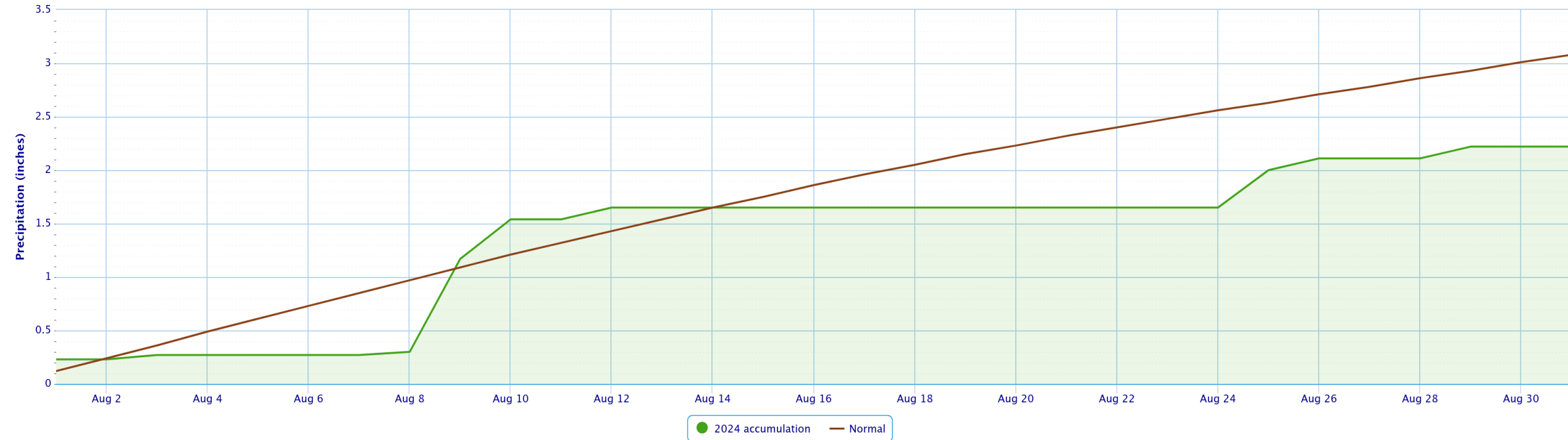


The August 2024 average temperature for Clayton was 76.6°, which was 3.5° above the normal of 73.1°. The average maximum temperature for the month was 90.5°. This was 3.9° above the normal average maximum temperature of 86.6°. The average minimum temperature for the month was 62.8°. This was 3.1° above the normal average minimum temperature of 59.7°. This ranked as the 8<sup>th</sup> warmest August on record.

Precipitation: 2.22"

Accumulated Precipitation – Clayton Area, NM (ThreadEx)

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

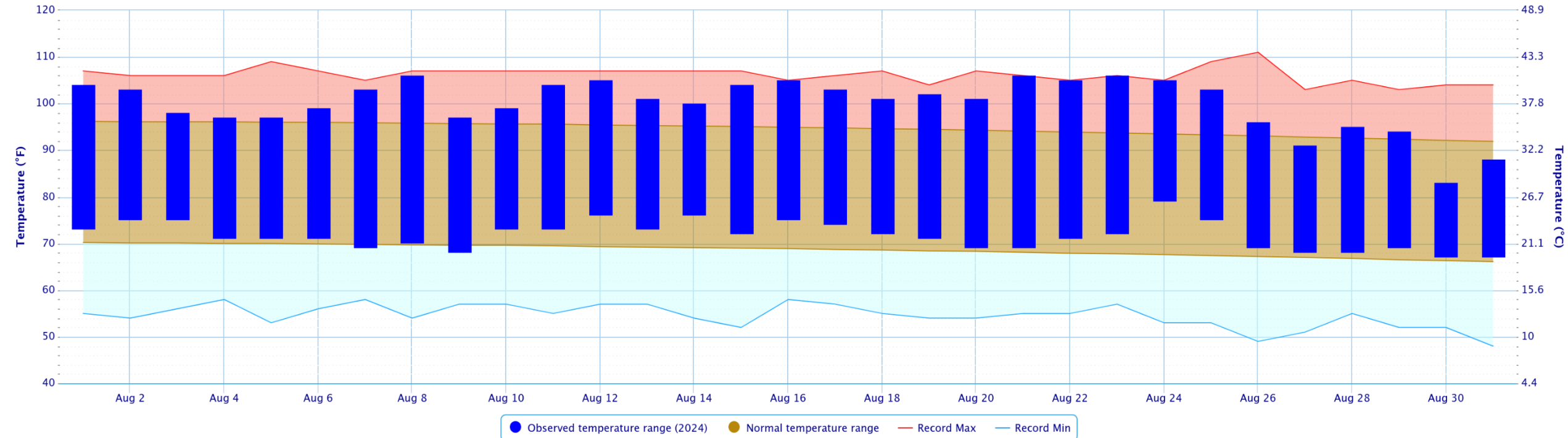


The August 2024 precipitation for Clayton was 2.22", which was 0.86" below the normal of 3.08". This ranked as the 59<sup>th</sup> driest August on record.

Average Temperature: 85.8°

Daily Temperature Data – Roswell Area, NM (ThreadEx)

Period of Record – Max temperature: 1893-01-03 to 2024-08-31; Min temperature: 1893-01-21 to 2024-08-31. Normals period: 1991-2020. Click and drag to zoom chart.

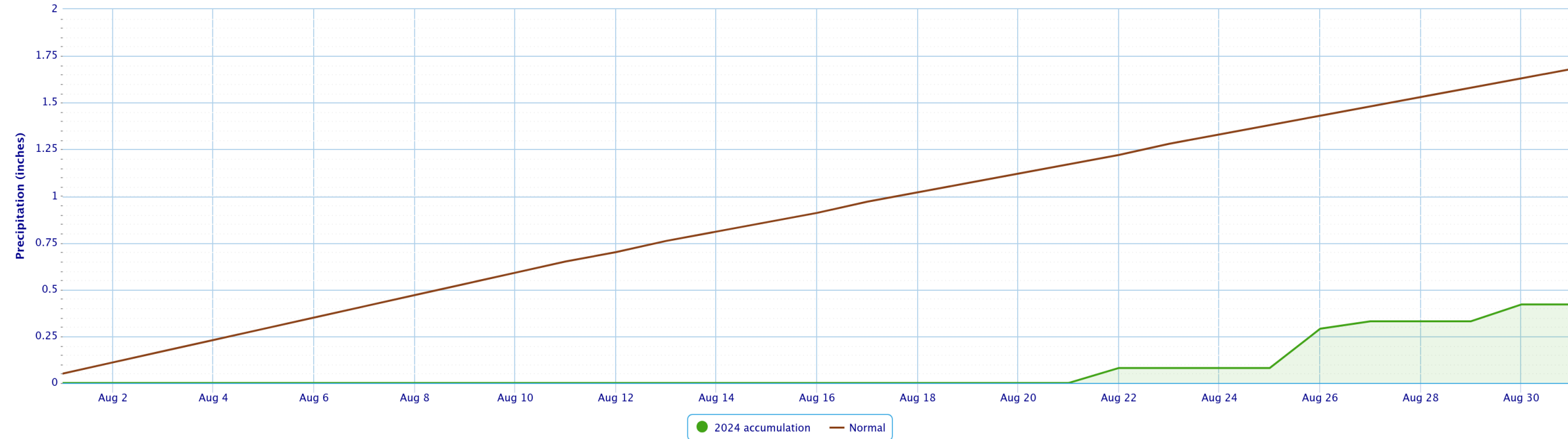


The August 2024 average temperature for Roswell was 85.8°, which was 4.2° above the normal of 81.6°. The average maximum temperature for the month was 100.0°. This was 5.4° above the average maximum temperature of 94.6°. The average minimum temperature for the month was 71.6°. This was 3.0° above the normal average minimum temperature of 68.6°. This ranked as the 4<sup>th</sup> warmest August on record.

Precipitation: 0.42"

Accumulated Precipitation – Roswell Area, NM (ThreadEx)

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



The August 2024 precipitation for Roswell was 0.42", which was 1.26" below the normal of 1.68". This ranked as the 17<sup>th</sup> driest August on record.

Event Type	Begin Date	County Name	Magnitude	Type	Event Narrative
Hail	8/1/2024	UNION	1"		A COOP observer reported quarter size hail at Pasamonte, NM.
Thunderstorm Wind	8/1/2024	UNION	55	Gust	Large live tree snapped and damaged utility power lines at 2nd and Main Street in Clayton, NM.
Thunderstorm Wind	8/1/2024	UNION	55	Gust	The Clayton Airport measured a peak wind gust of 63mph.
Flash Flood	8/2/2024	LINCOLN			Flash flooding and debris flows on the Rio Ruidoso in the Upper Canyon area along Main Road. Debris piled up and clogged some culverts along Main Road in Ruidoso. Another debris flow resulted in the closure of Gavilan Canyon Bridge near Hollywood.
Thunderstorm Wind	8/2/2024	ROOSEVELT	63	Gust	The Melrose Gunnery Range station recorded a peak wind gust of 72 mph and sustained winds of 53 mph from a wet microburst.
Flash Flood	8/2/2024	LINCOLN			The local Fire Department reported flooding near the junction of Alpine Village Road and NM Highway 48 just south of Alto, NM.
Flash Flood	8/3/2024	MORA			Local law enforcement reported flash flooding just outside of the Hermits Peak/Calf Canyon burn scar along NM 434 at mile marker 3 that closed the road.
Thunderstorm Wind	8/3/2024	CURRY	50	Gust	The Clovis Municipal Airport AWOS measured a peak thunderstorm wind gust of 58 mph.
Hail	8/3/2024	LOS ALAMOS	0.75"		
Flash Flood	8/8/2024	SAN MIGUEL			Damage from flash flooding occurred along County Road A3A. Debris and rubble were scattered across roadways and driveways with some vehicles trapped in the debris.
Flash Flood	8/8/2024	TORRANCE			A driveway a few miles south of Edgewood became flooded and impassable.
Flash Flood	8/8/2024	TORRANCE			An arroyo that flows underneath I-40 just east of Wagon Wheel flooded and exceeded its banks with an observed water rise of 7 feet.
High Wind	8/8/2024	MIDDLE RIO GRANDE VALLEY/ALBUQUERQUE METRO AREA	55	Gust	The Albuquerque Sunport measured a peak wind gust of 63 mph from east canyon winds.
High Wind	8/8/2024	SOUTH CENTRAL HIGHLANDS	66	Gust	The Little Burro WSMR mesonet measured a peak wind gust of 76 mph from east canyon winds.
Flash Flood	8/9/2024	SANTA FE			Social media video shows a road washed out at intersection near E. Frontage Road and Bar D 4 Road near Santa Cruz south of Espanola. Road repair cost is an estimate.


\*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 Name	Magnitude	Magnitude Type	Event Narrative
Thunderstorm Wind	8/9/2024	DE BACA	50	Gust	The Fort Sumner Airport recorded a thunderstorm wind gust of 58 mph.
Flash Flood	8/9/2024	MORA			NM State Police reported a road closure on State Highway 434 due to flooding and runoff from the Hermits Peak/Calf Canyon burn scar flowing across the road. Road closure time estimated based on radar data.
Flash Flood	8/12/2024	LINCOLN			Storms over the South Fork burn scar resulted in flash flooding in the Upper Canyon neighborhood including Johnson Road and Main Road.
Flash Flood	8/9/2024	BERNALILLO			Flash flooding within ABQ arroyos, ABQFD rescued an injured man and a dog in 7 feet of water, and a 2nd man was spotted lifeless in the Northern Diversion Channel near Menaul Blvd..
Thunderstorm Wind	8/17/2024	CURRY	56	Gust	The Cannon AFB AWOS measured a peak thunderstorm wind gust caused by a downburst.
Thunderstorm Wind	8/21/2024	SAN JUAN	57	Gust	The Farmington Four Corners Regional Airport observed thunderstorm wind gusts peaking at 66 mph producing thick blowing dust, resulting in power outages to 8,000 customers, and a down 69kV power line resulting in power outages around Aztec and surrounding areas.
Thunderstorm Wind	8/22/2024	CHAVES	60	Gust	A wind gust of 69 mph from a thunderstorm downburst was observed at the Roswell Air Center.
Thunderstorm Wind	8/24/2024	BERNALILLO	51	Gust	A 59 mph wind gust was recorded at the Albuquerque International Sunport as an outflow boundary moved through the site.
Flash Flood	8/26/2024	LINCOLN			Burn scar flash flooding on the South Fork burn scar and along the Rio Ruidoso. Water over Bridge 2 on Main Road in Ruidoso, in Ponderosa Heights, and near Alpine Village.
Thunderstorm Wind	8/26/2024	COLFAX	54	Gust	
Flash Flood	8/28/2024	LINCOLN			Locally heavy rainfall on the Salt burn scar resulted in flash flooding on secondary roads off U.S. Highway 70 and within the Cherokee Mobile Home Park. There were no reports of injuries, casualties or damage.
Flash Flood	8/28/2024	LINCOLN			Brief heavy rainfall of 0.20 over the South Fork burn scar resulted in flash flooding and road closures over portions of Brady Canyon Road from South Oak Drive to Mechem Drive.
Flash Flood	8/29/2024	LINCOLN			Burn scar flash flooding on the South Fork and McBride burn scars. Flash flooding was reported over roadways at University Dr. and Mechem Dr., Gavilan Canyon Rd. at several locations from Eagle Creek to east of Warrior Dr., and on Paradise Road. Debris was reported over the road at Prospect Rd. and Gavilan Canyon Road.
Flash Flood	8/29/2024	ROOSEVELT			Intersection flooded and closed at East 3rd Street and Kilgore Avenue.
Flood	8/31/2024	CHAVES			A trained spotter shared video of flood waters within the normally dry Rio Penasco well outside of banks overtopping a low water crossing.

\*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/>

 Questions?: [sr-abq.webmaster@noaa.gov](mailto:sr-abq.webmaster@noaa.gov)

 NWS Albuquerque Facebook

 @NWSAlbuquerque & #nmwx