

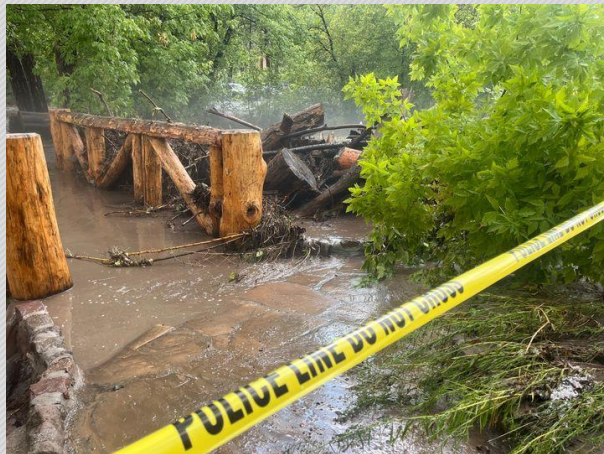
September 2024 Climate & Weather Summary

Issued: October 16, 2024



ALBUQUERQUE
Weather Forecast Office

September 2024 began stormy and wet, but a pattern change brought much drier and warmer than normal weather for a couple of weeks. There was flooding over the sensitive Sacramento complex of burn scars of the 2nd of the month, but fortunately that would be the last flash flooding event of the Monsoon Season in Ruidoso. It is not uncommon for tropical systems to impact New Mexico during the month of September and this year was no different. The remnants of Tropical Storm Ileana in the Eastern Pacific were pushed into New Mexico late in the month, sparking an outbreak of storms. Several storms produced damaging wind gusts and large hail and one produced a tornado near Clines Corners. The end of the month was quiet with tranquil and warm weather. Overall, the month was much drier and warmer than average in most areas.



September 5th
Bandelier National Monument, NM



September 17th | Nara Visa, NM
Photo courtesy Kellee Burns Clark



September 17th | Nara Visa, NM
Photo courtesy Marjorie Egerton



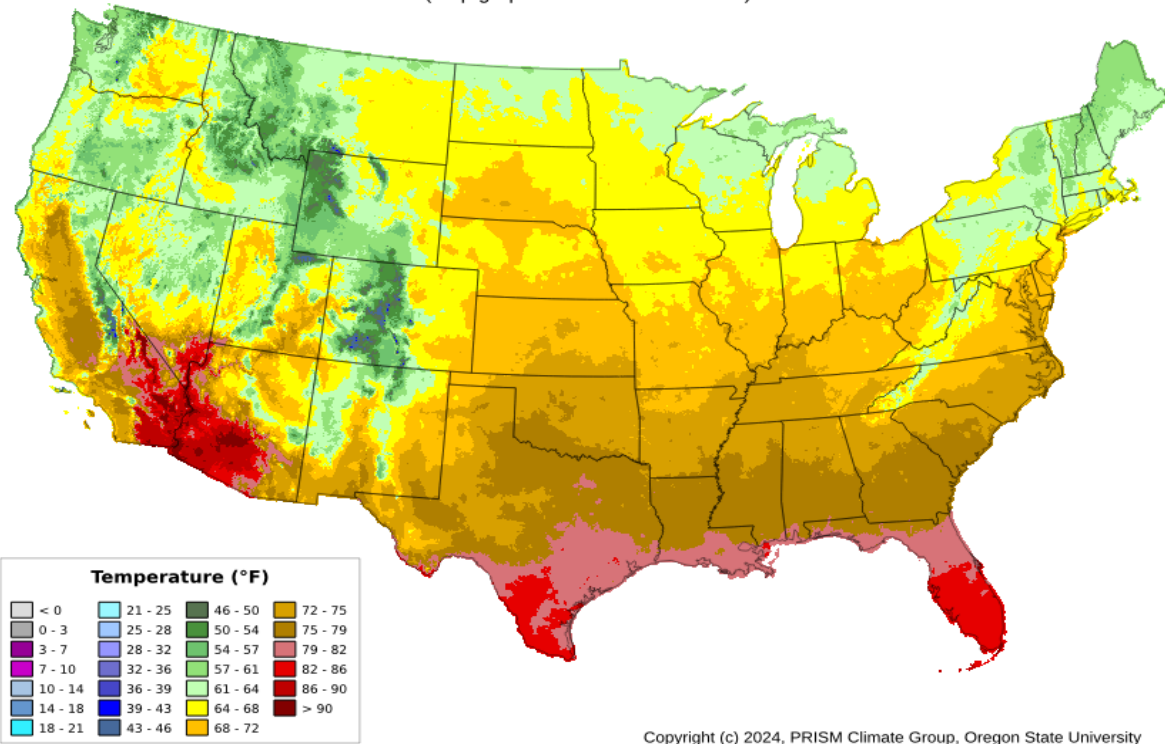
September 21st | Clines Corners, NM
Photo courtesy Stephen

Temperatures

Average Daily Mean Temperature: Sep 2024

Period ending 7 AM EST 30 Sep 2024

(Map graphic created 02 Oct 2024)

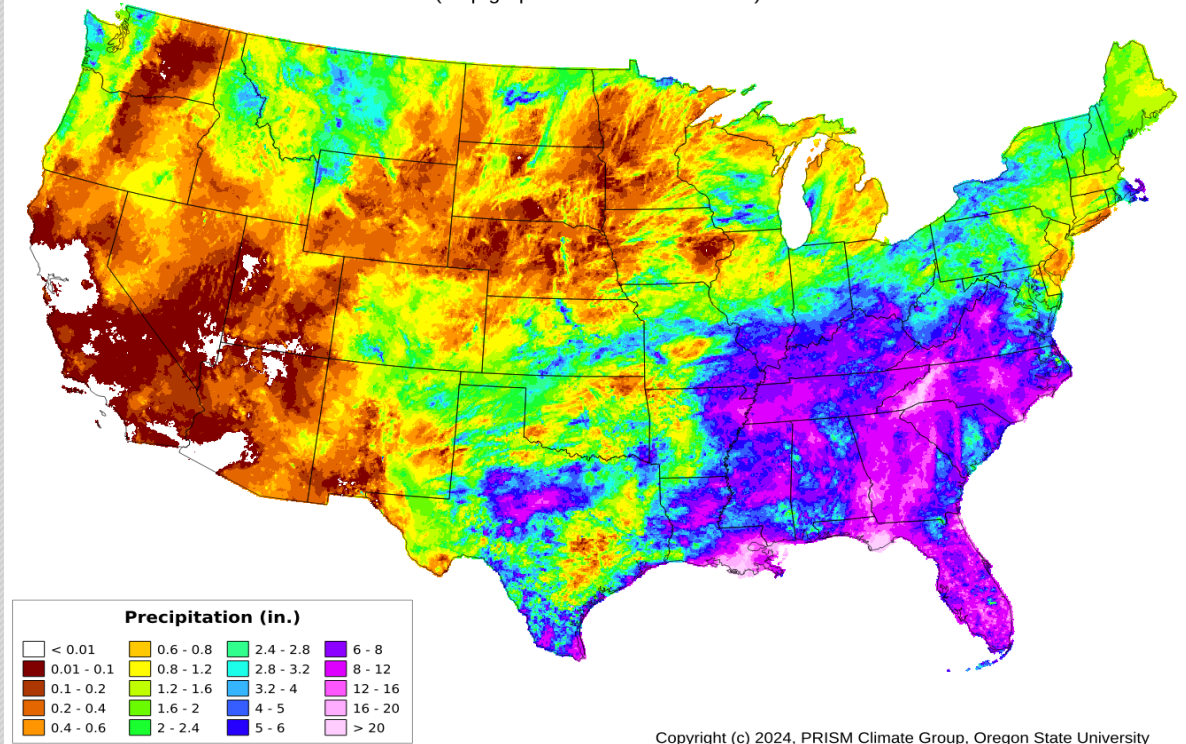


Precipitation

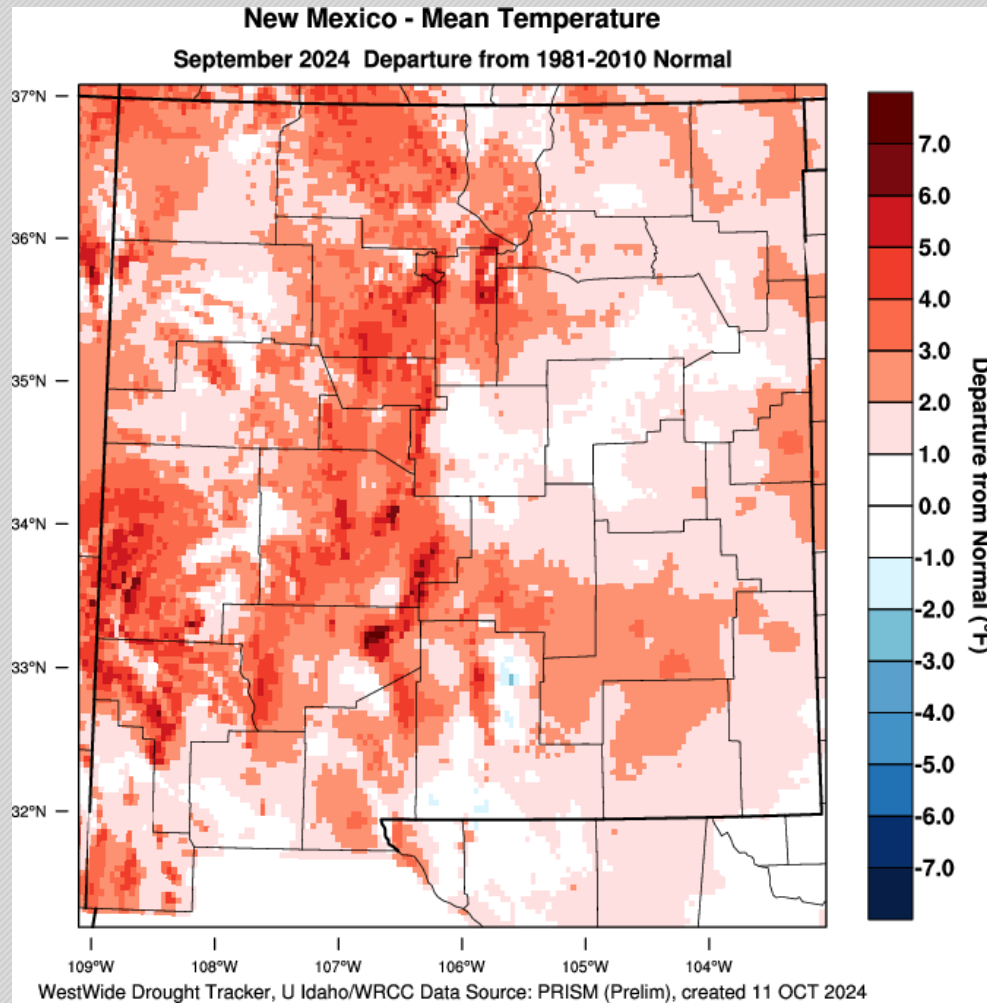
Total Precipitation: Sep 2024

Period ending 7 AM EST 30 Sep 2024

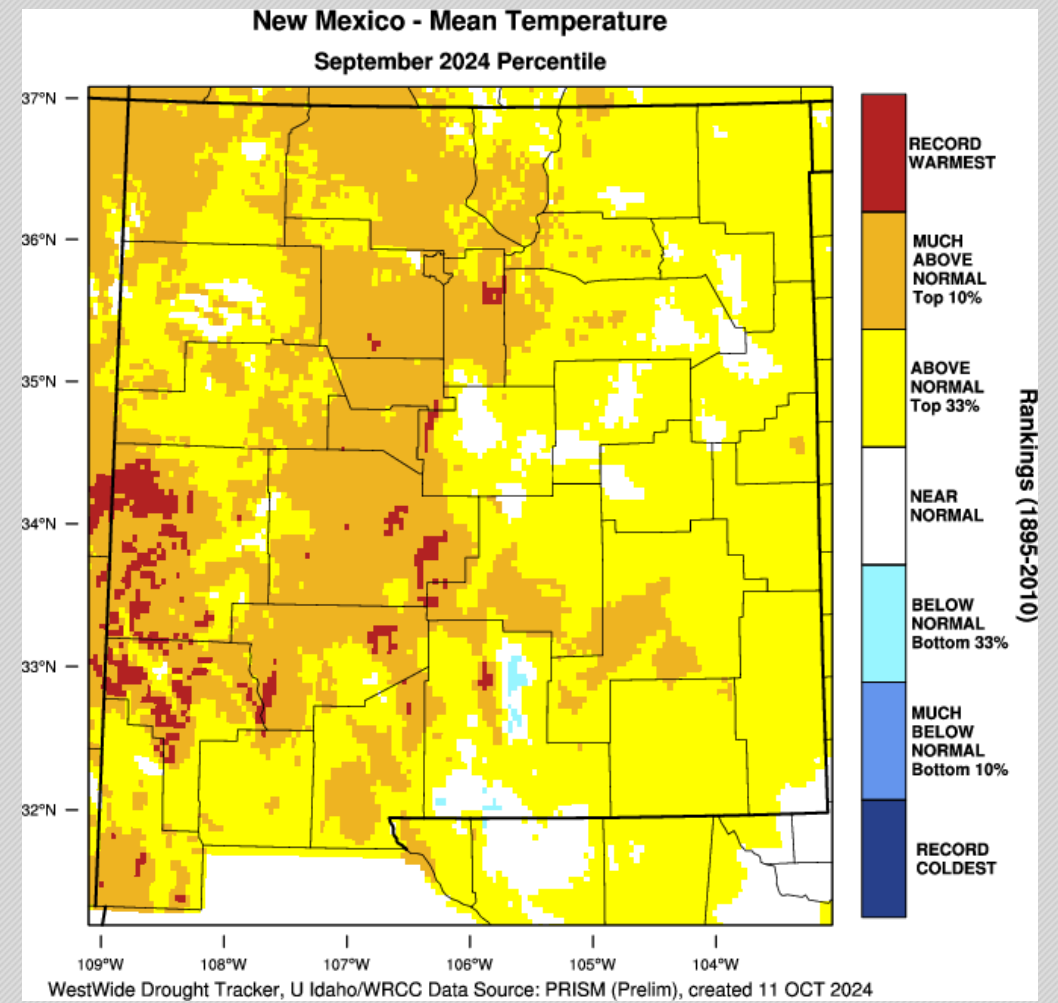
(Map graphic created 02 Oct 2024)



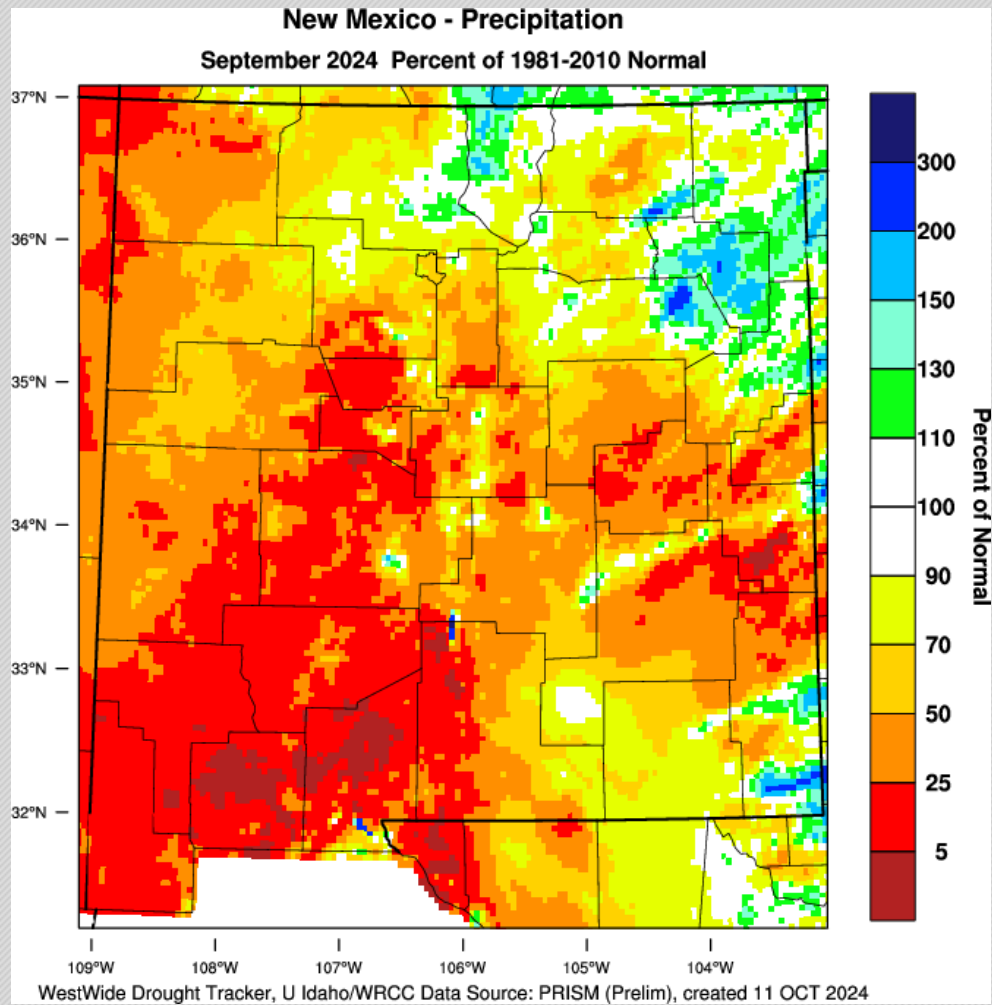
Anomaly



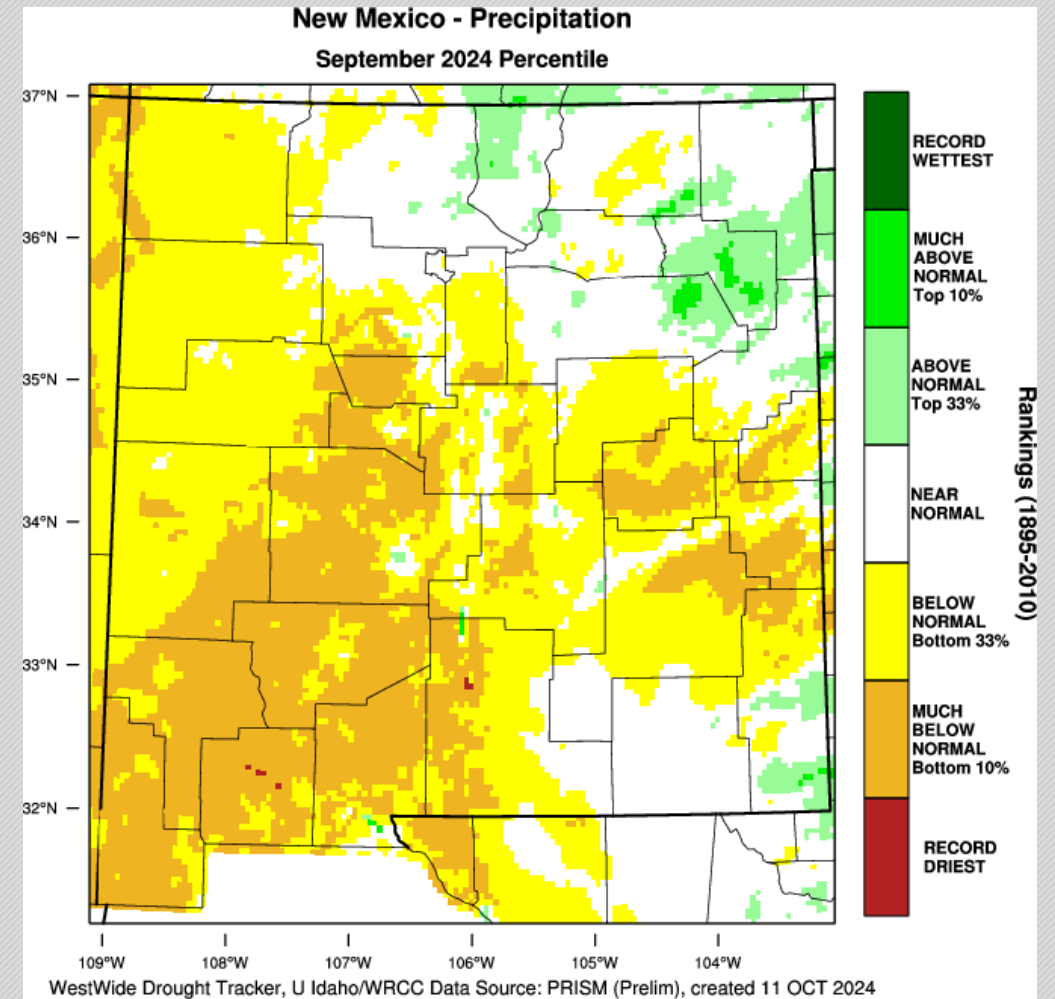
Percentile

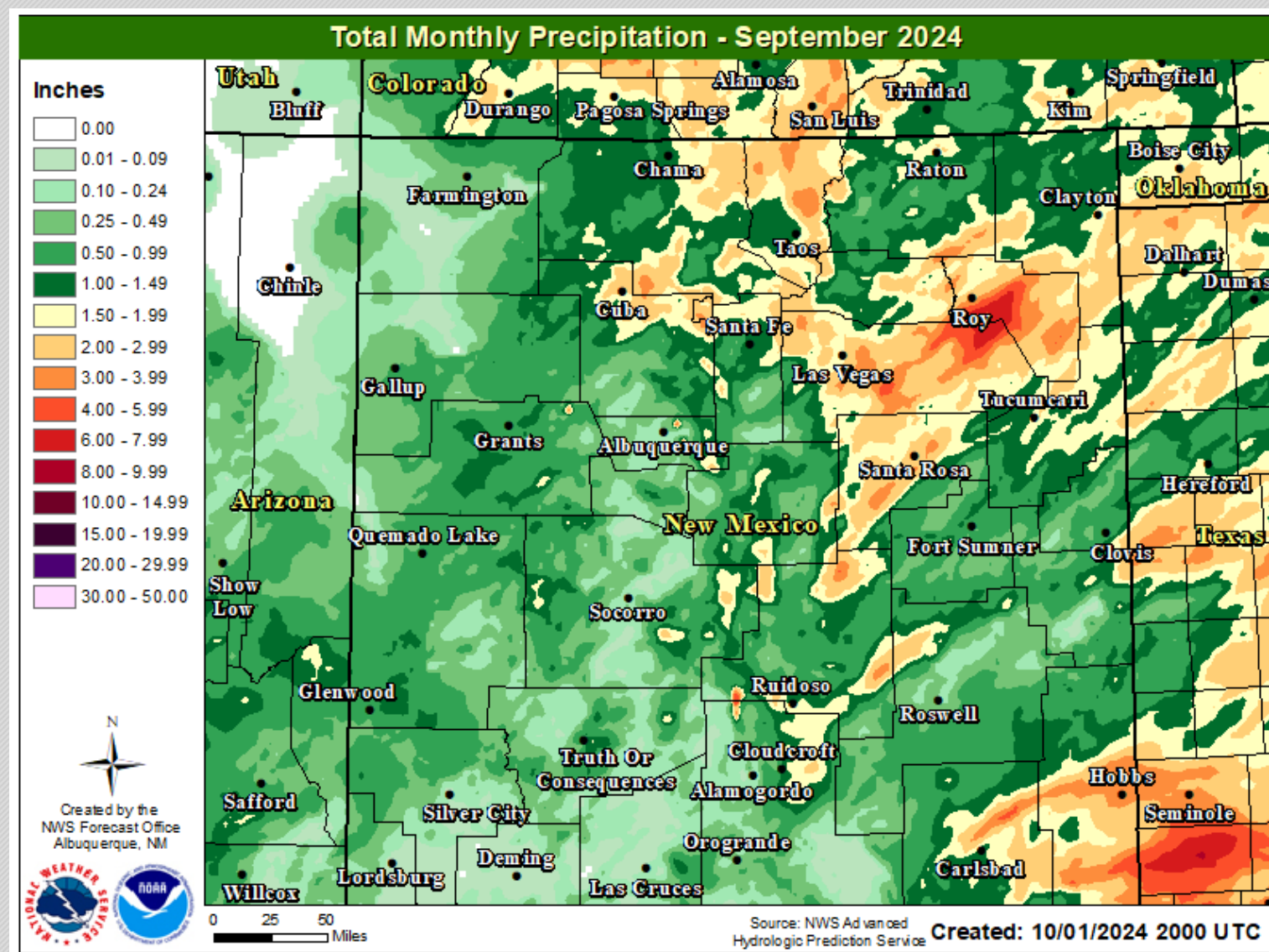


Anomaly

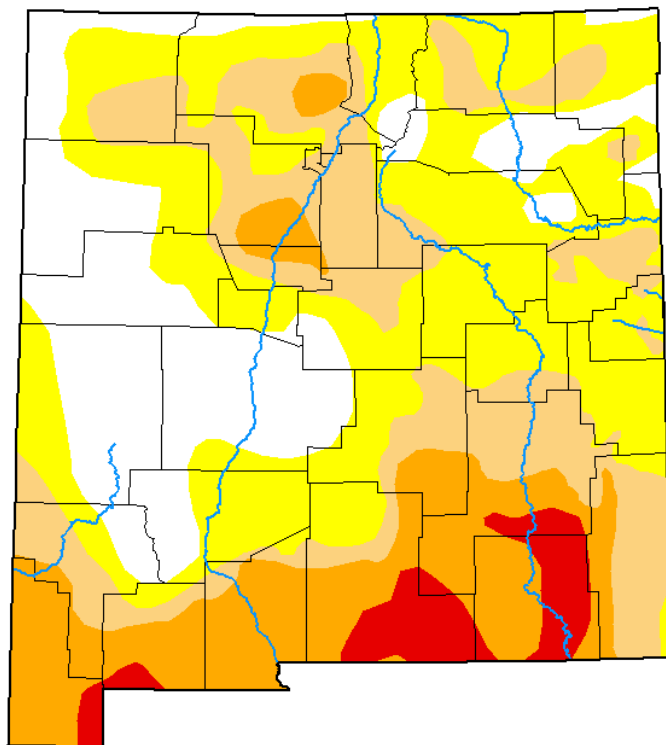


Percentile





U.S. Drought Monitor New Mexico

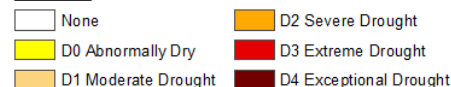


September 3, 2024
(Released Thursday, Sep. 5, 2024)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	21.83	78.17	42.50	20.87	4.62	0.00
Last Week 08-27-2024	17.78	82.22	45.15	22.48	8.19	0.00
3 Months Ago 06-04-2024	2.40	97.60	72.41	33.09	12.47	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 09-05-2023	0.00	100.00	95.45	68.72	19.99	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>

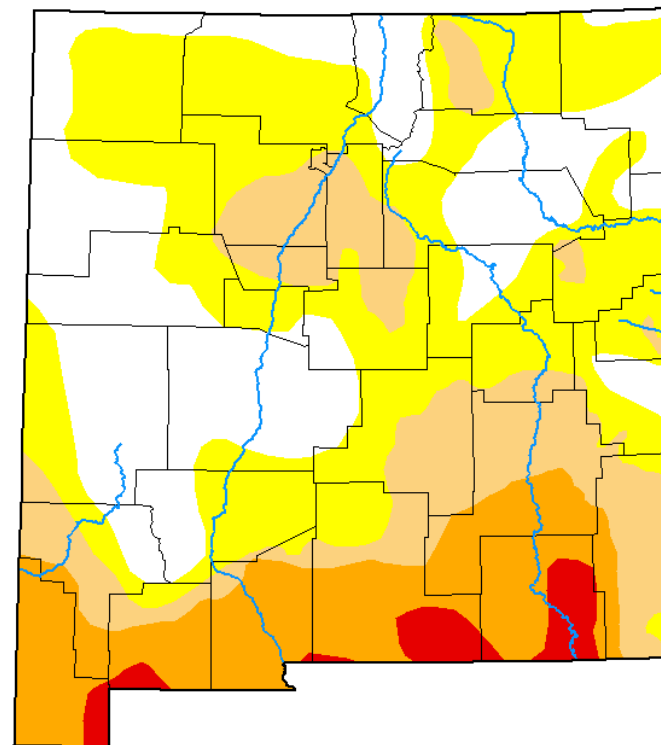
Author:

Lindsay Johnson
National Drought Mitigation Center



droughtmonitor.unl.edu

U.S. Drought Monitor New Mexico

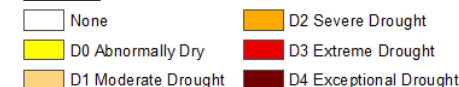


October 1, 2024
(Released Thursday, Oct. 3, 2024)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	28.35	71.65	34.73	17.54	2.80	0.00
Last Week 09-24-2024	28.31	71.69	34.73	17.54	2.65	0.00
3 Months Ago 07-02-2024	12.19	87.81	56.66	24.33	12.69	0.43
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 10-03-2023	0.41	99.59	94.86	68.63	33.19	6.85

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 Tinker
CPC/NOAA/NWS/NCEP



droughtmonitor.unl.edu

There were minor improvements to drought conditions during the month of September despite the near to below average precipitation. Improvements were a delayed result of above average precipitation during previous months.

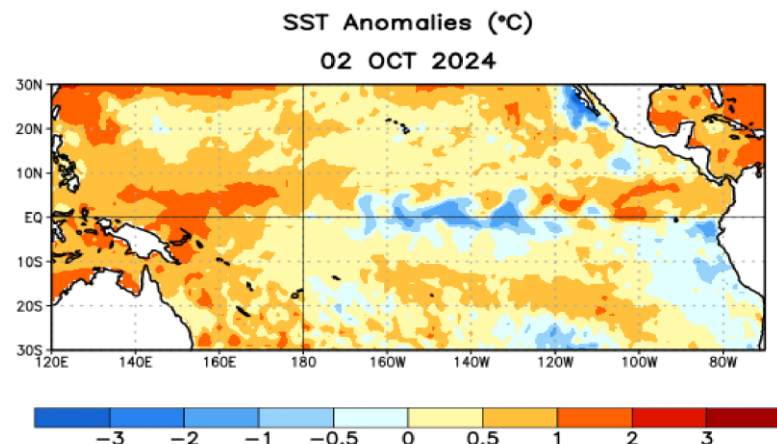


Figure 1. Average sea surface temperature (SST) anomalies ($^{\circ}\text{C}$) for the week centered on 2 October 2024. Anomalies are computed with respect to the 1991-2020 base period weekly means. Data credit: UKMet OSTIA.

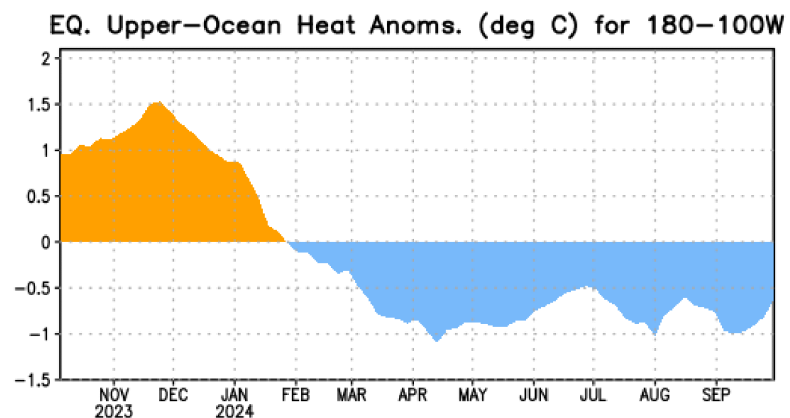


Figure 3. Area-averaged upper-ocean heat content anomaly ($^{\circ}\text{C}$) in the equatorial Pacific (5°N - 5°S , 180° - 100°W). The heat content anomaly is computed as the departure from the 1991-2020 base period pentad means.

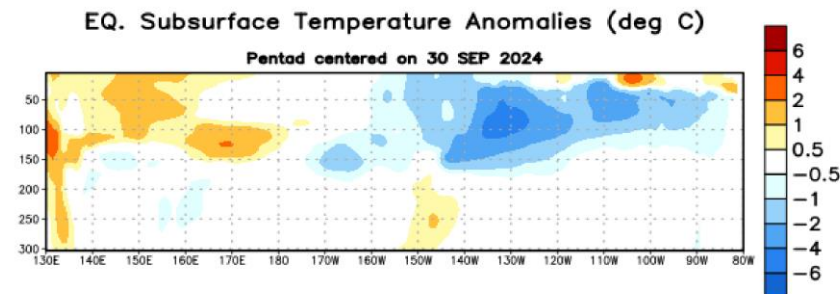


Figure 4. Depth-longitude section of equatorial Pacific upper-ocean (0-300m) temperature anomalies ($^{\circ}\text{C}$) centered on the pentad of 30 September 2024. Anomalies are departures from the 1991-2020 base period pentad means.

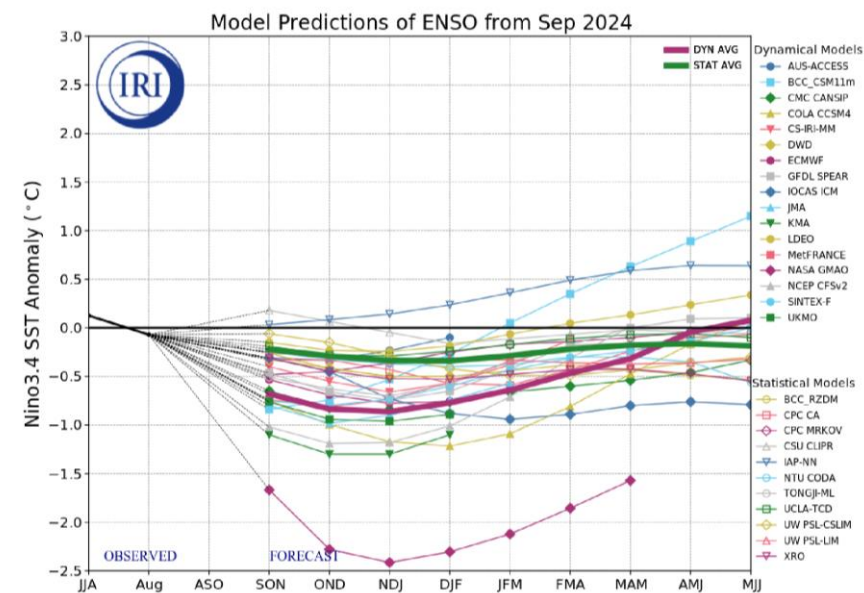
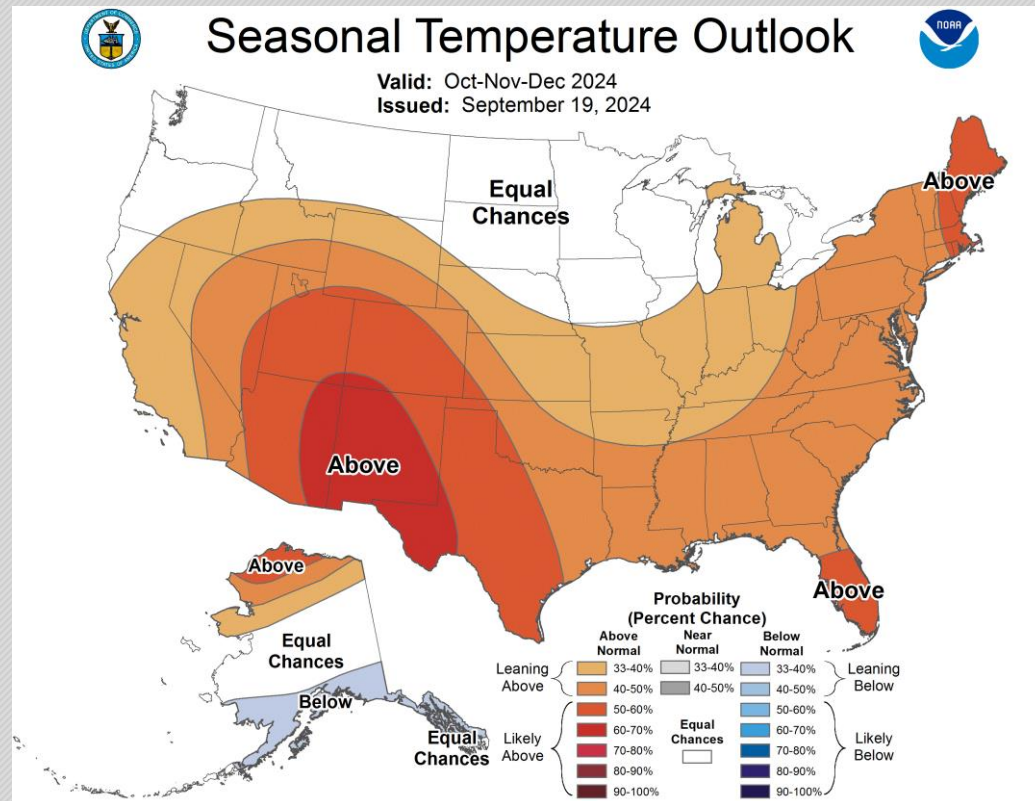
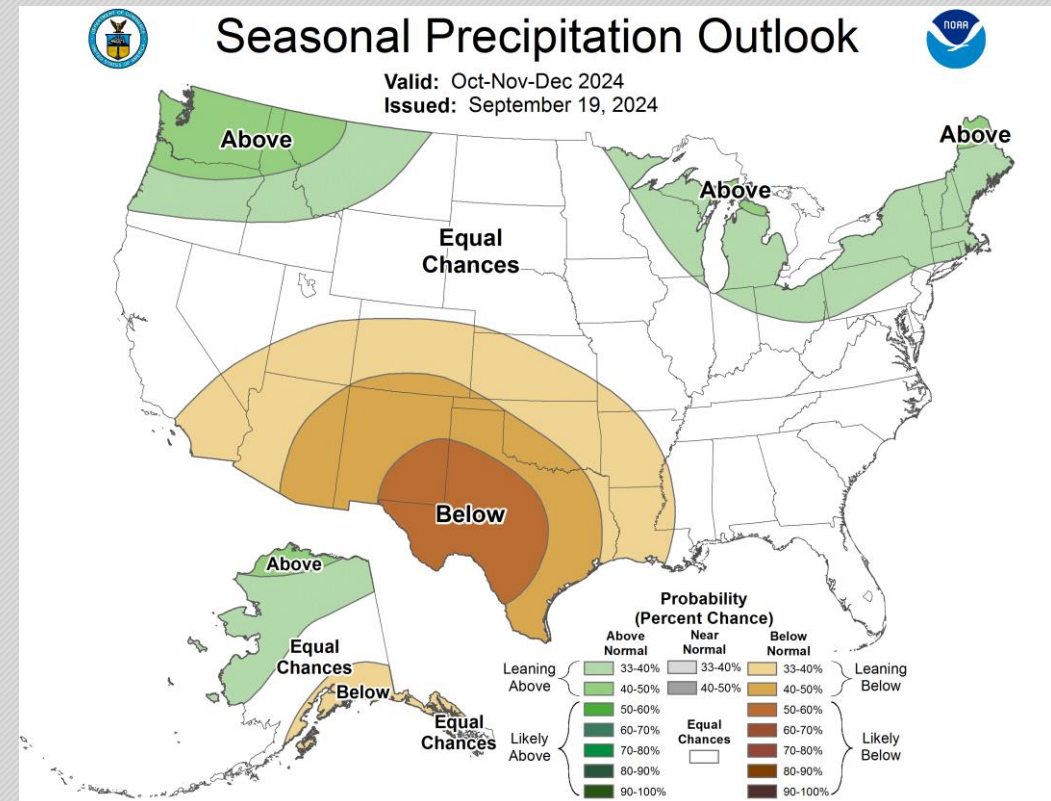


Figure 6. Forecasts of sea surface temperature (SST) anomalies for the Niño 3.4 region (5°N - 5°S , 120°W - 170°W). Figure updated 19 September 2024 by the International Research Institute (IRI) for Climate and Society.

Temperature October-November-December



Precipitation October-November-December



There is an increased chance of above average temperatures and below average precipitation throughout the entire state during the October through December time period. Confidence in seasonably dry and warm weather is greatest in the southern portion of the state.

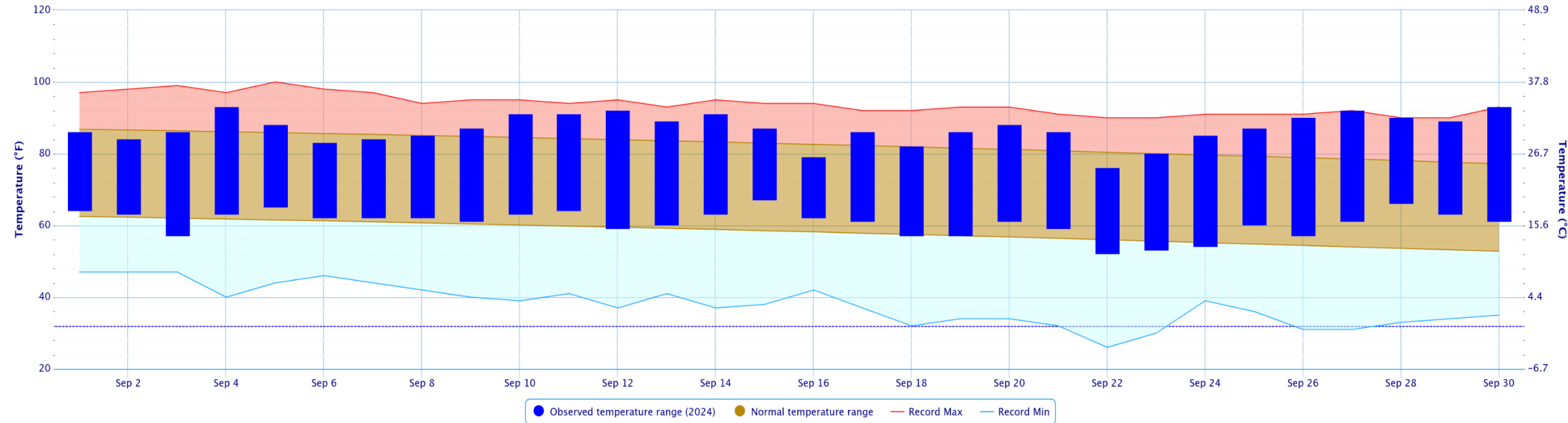
September 2024

Albuquerque Sunport Temperatures

Average Temperature: 73.8°

Daily Temperature Data – Albuquerque Area, NM (ThreadEx)

Period of Record – 1891–12–01 to 2024–10–10. Normals period: 1991–2020. Click and drag to zoom chart.



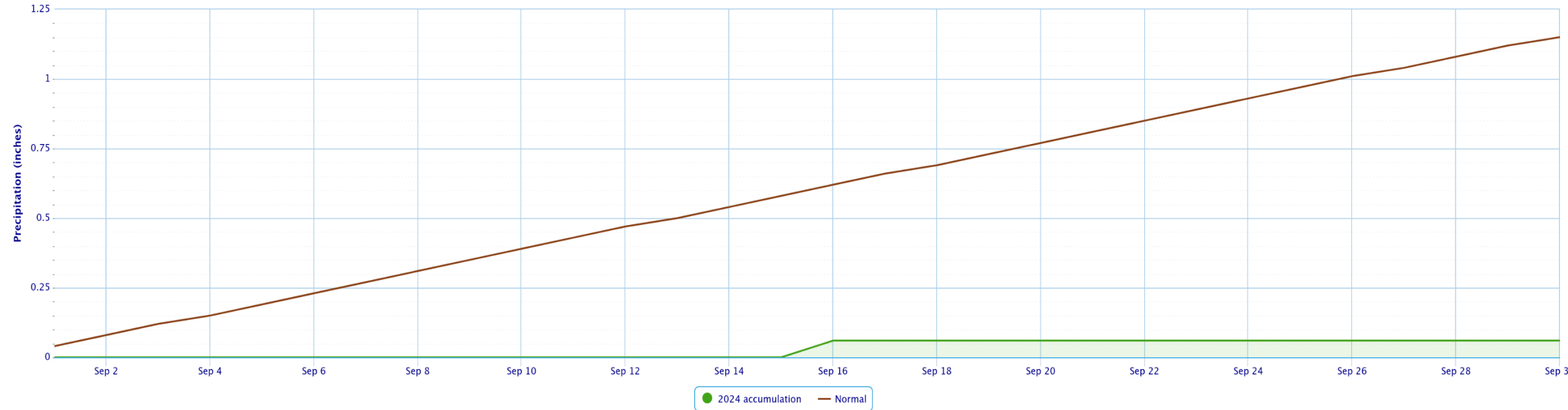
Powered by ACIS

The September 2024 average temperature for Albuquerque was 73.8°, which was 3.5° above the normal of 70.3°. The average maximum temperature for the month was 86.9°. This was 4.4° above the normal average maximum temperature of 82.5°. The average minimum temperature for the month was 60.6°. This was 2.5° above the normal average minimum temperature of 58.1°. This ranked as the 4th warmest September on record.

Precipitation: 0.06"

Accumulated Precipitation – Albuquerque Area, NM (ThreadEx)

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

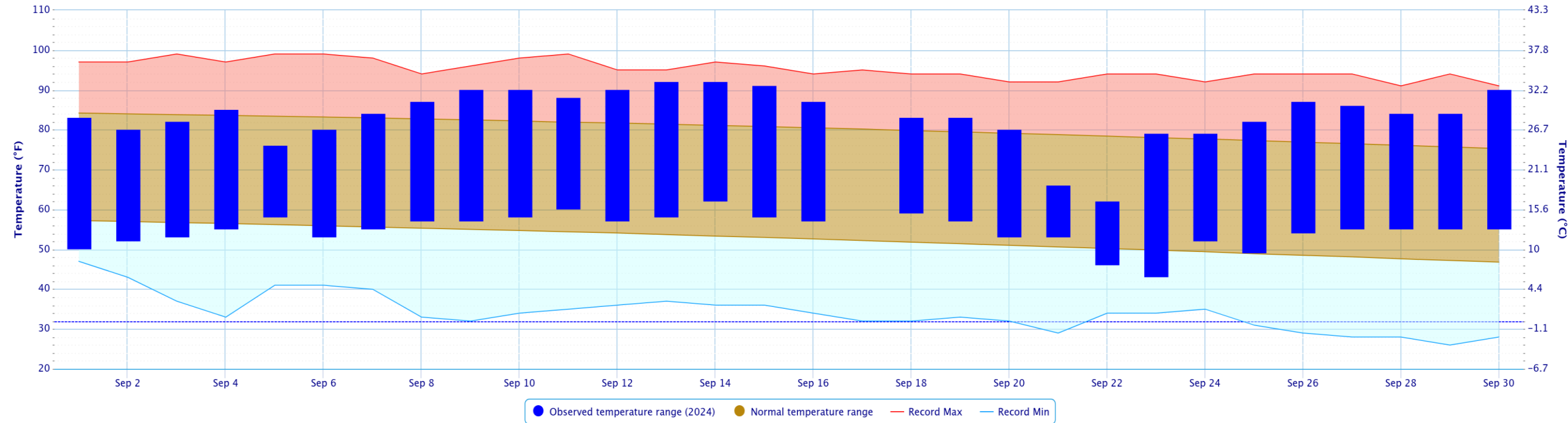


The September 2024 precipitation for Albuquerque was 0.06", which was 1.09" below the normal of 1.15". This ranked as the 6th driest September on record.

Average Temperature: 69.1°

Daily Temperature Data – Clayton Area, NM (ThreadEx)

Period of Record – 1896–02–01 to 2024–10–10. Normals period: 1991–2020. Click and drag to zoom chart.



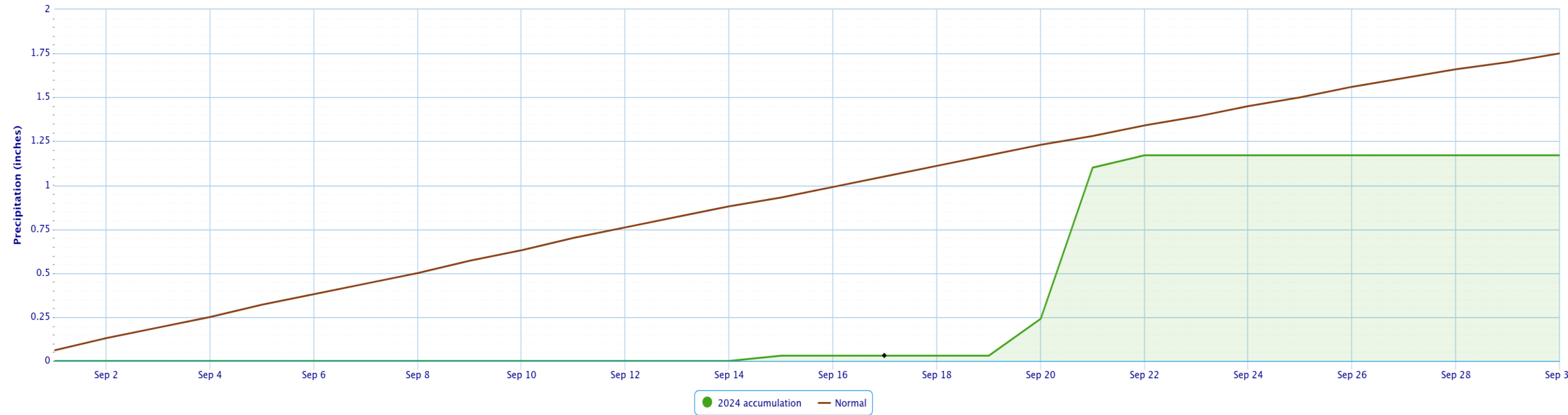
Powered by ACIS

The September 2024 average temperature for Clayton was 69.1°, which was 2.7° above the normal of 66.4°. The average maximum temperature for the month was 83.5°. This was 3.2° above the normal average maximum temperature of 80.3°. The average minimum temperature for the month was 55.0°. This was 2.5° above the normal average minimum temperature of 52.5°. This ranked as the 16th warmest September on record.

Precipitation: 1.17"

Accumulated Precipitation – Clayton Area, NM (ThreadEx)

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

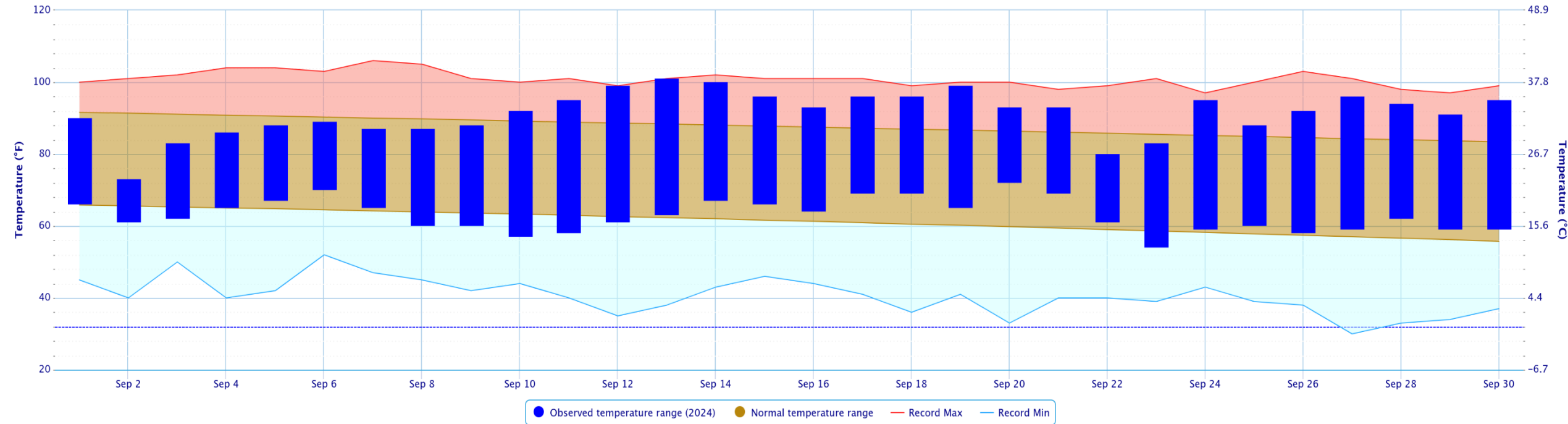


The September 2024 precipitation for Clayton was 1.17", which was 0.58" below the normal of 1.75". This ranked as the 55th driest September on record.

Average Temperature: 77.1°

Daily Temperature Data – Roswell Area, NM (ThreadEx)

Period of Record – Max temperature: 1893-01-03 to 2024-10-10; Min temperature: 1893-01-21 to 2024-10-10. Normals period: 1991-2020. Click and drag to zoom chart.



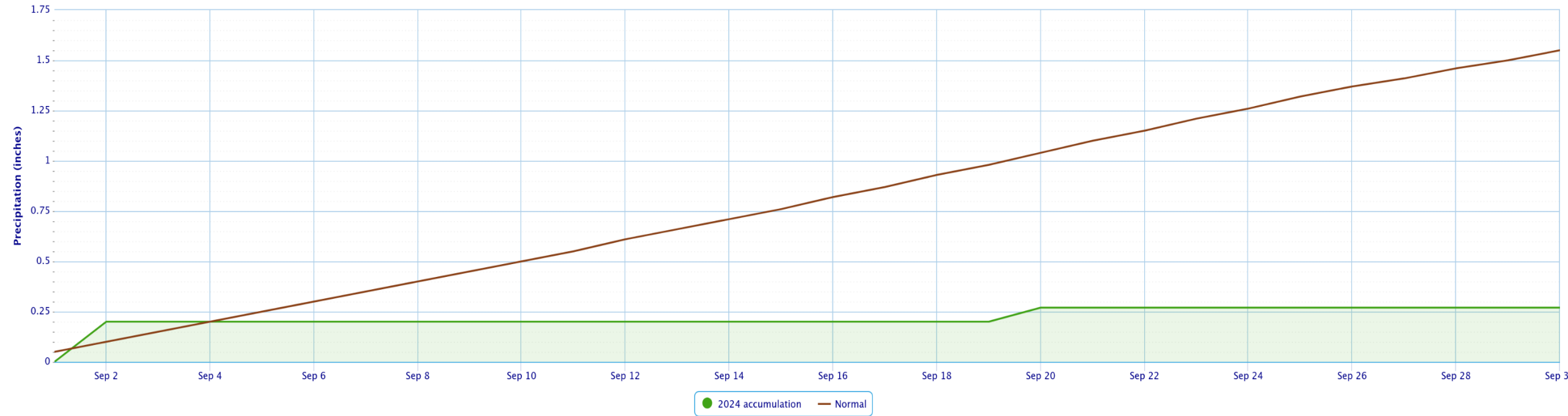
Powered by ACIS

The September 2024 average temperature for Roswell was 77.1°, which was 2.7° above the normal of 74.4°. The average maximum temperature for the month was 91.3°. This was 3.7° above the average maximum temperature of 87.6°. The average minimum temperature for the month was 62.9°. This was 1.7° above the normal average minimum temperature of 61.2°. This ranked as the 6th warmest September on record.

Precipitation: 0.27"

Accumulated Precipitation – Roswell Area, NM (ThreadEx)

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





Powered by ACIS

The September 2024 precipitation for Roswell was 0.27", which was 1.28" below the normal of 1.55". This ranked as the 22nd driest September on record.

Event Type	Begin Date	County Name	Magnitude	Magnitude Type	Event Narrative
Flash Flood	9/2/2024	LINCOLN			Burn scar flash flooding off the South Fork and McBride burn scars.
Flash Flood	9/2/2024	CHAVES			Flash flooding over a portion of Highway 2 south of Lake Arthur in southern Chaves County under six inches of water.
Hail	9/5/2024	BERNALILLO	0.75"		A strong thunderstorm produced penny size hail at Sandia Park.
Hail	9/5/2024	BERNALILLO	1"		A severe thunderstorm produced quarter size hail near Sedillo.
Thunderstorm Wind	9/5/2024	SANDOVAL	61	Gust	Thunderstorms produced wind gusts as high as 70 mph in Placitas.
Thunderstorm Wind	9/5/2024	SOCORRO	54	Gust	Thunderstorms produced a peak wind gust of 62 mph at the Mine mesonet on the White Sands Missile Range.
Flash Flood	9/5/2024	BERNALILLO			Flash flooding with debris over Via Sedillo road in the town of Sedillo between NM Highway 333 and Camino Verde Road.
Flash Flood	9/5/2024	SAN MIGUEL			A trained spotter reported flooding over the bridge crossing County Road A4A, just west of NM 94.
High Wind	9/5/2024	SOUTH CENTRAL HIGHLANDS	67	Gust	High wind gusts peaking at 77 mph and 61 mph were observed at the Little Burro and Tower 6 mesonet sites, respectively, on the White Sands Missile Range.
Flash Flood	9/5/2024	SAN MIGUEL			Law enforcement reported flooding on the north end of County Road A-1 in Sapello, NM. The Sapello Fire Department reported 2 foot deep water.
Thunderstorm Wind	9/5/2024	SANDOVAL	52	Gust	Large 20 ft yucca shrub toppled in high winds near Inca Road NE & 10th Street NE in Rio Rancho.
Flash Flood	9/5/2024	SANDOVAL			Damage reported throughout Bandelier National Monument from significant flash flooding. All trails on the property were closed except for one within the official park boundaries.
Thunderstorm Wind	9/5/2024	BERNALILLO	53	Gust	A prevailing east canyon wind at the Albuquerque Sunport was convectively enhanced by a thunderstorm outflow reaching a peak gust of 60 mph.
High Wind	9/5/2024	MIDDLE RIO GRANDE VALLEY/ALBUQUERQUE METRO AREA	51	Gust	The Albuquerque Sunport ASOS measured a peak wind gust of 59mph during a strong east canyon wind event.
Thunderstorm Wind	9/15/2024	COLFAX	55	Gust	
Thunderstorm Wind	9/17/2024	SANTA FE	50	Gust	Large sycamore tree limbs up to 2 inches in diameter were snapped near the Santa Fe Railyards.
Thunderstorm Wind	9/17/2024	UNION	50	Gust	Severe wind gusts from a storm heading directly toward Texline, TX blew through Clayton, NM, knocking out power for to an estimated 15 hours.
Thunderstorm Wind	9/17/2024	SANDOVAL	69	Gust	
Thunderstorm Wind	9/17/2024	QUAY	61	Gust	10 commercial vehicles were blown over on I-40 due to severe thunderstorm wind gusts, along with 7 other simultaneous crashes closed I-40 for several hours in both directions.
Thunderstorm Wind	9/17/2024	QUAY	61	Gust	Severe thunderstorm wind gusts blew of a community center roof, church doors and destroyed numerous outbuildings in Nara Visa.
Thunderstorm Wind	9/17/2024	UNION	61	Gust	The same severe thunderstorm wind gust that knocked at power at Clayton, NM also blew over a FEDEX semi-trailer along U.S. Highway 64/87 at mile marker 2 just west of the TX state line.
Hail	9/17/2024	RIO ARRIBA	1"		Quarter size hail fell at mile marker 232 along U.S. Highway 84 outside Ghost Ranch.
Thunderstorm Wind	9/17/2024	ROOSEVELT	60	Gust	Severe thunderstorm wind gusts blew down a large tree branch at NM Highway 206 and Moreland Road, knocking out power in the area south of Portales.
Hail	9/21/2024	CURRY	1.5"		
Flash Flood	9/21/2024	MORA			Fast flowing from a nearby culvert washed out a dirt road a few miles south of Chacon, within the Hermits Peak/Calf Canyon burn scar.
Hail	9/21/2024	CHAVES	2"		A storm chaser on social media reported 2 inch hail while driving along U.S. Highway 285 north of Roswell in Chaves County.
Hail	9/21/2024	RIO ARRIBA	1"		
Hail	9/21/2024	ROOSEVELT	0.75"		
Tornado	9/21/2024	TORRANCE	EF-U		A tornado producing no damage touched down just northwest of Clines Corners between I-40 and U.S. Highway 285, travelling northeast. No damage.

*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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