

October 2024 Climate & Weather Summary

Issued: November 11, 2024

October 2024 was the hottest October on record for much of the state. The first half of the month was very dry and warm which was perfect for the International Balloon Festival in Albuquerque. The weather pattern changed suddenly around the middle of the month as Gulf moisture surged into eastern NM and produced days of stormy weather. While severe weather did occur during this period, the bigger concern was heavy rainfall and flash flooding. On Oct. 19th, Roswell Industrial Airpark had 5.78” of rain, breaking the all-time daily record rainfall. As a result, historic flash flooding occurred all night, leading to over 300 water rescues and 2 fatalities. Despite the heavy rainfall and flash flooding, a dust storm occurred in Roswell less than 2 weeks later.



October 20 | Roswell, NM
Photo courtesy Eric Queller

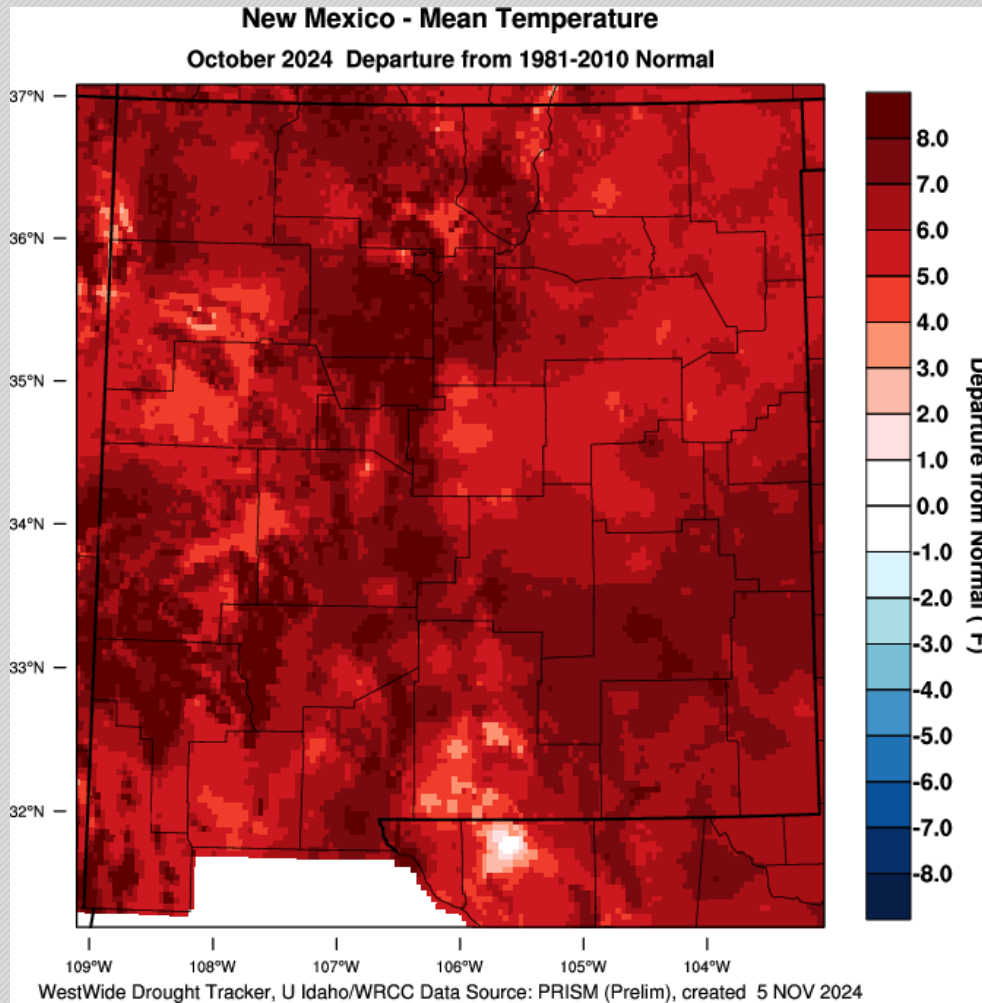


October 20 | Roswell, NM
Photo courtesy Matthew Fuentes

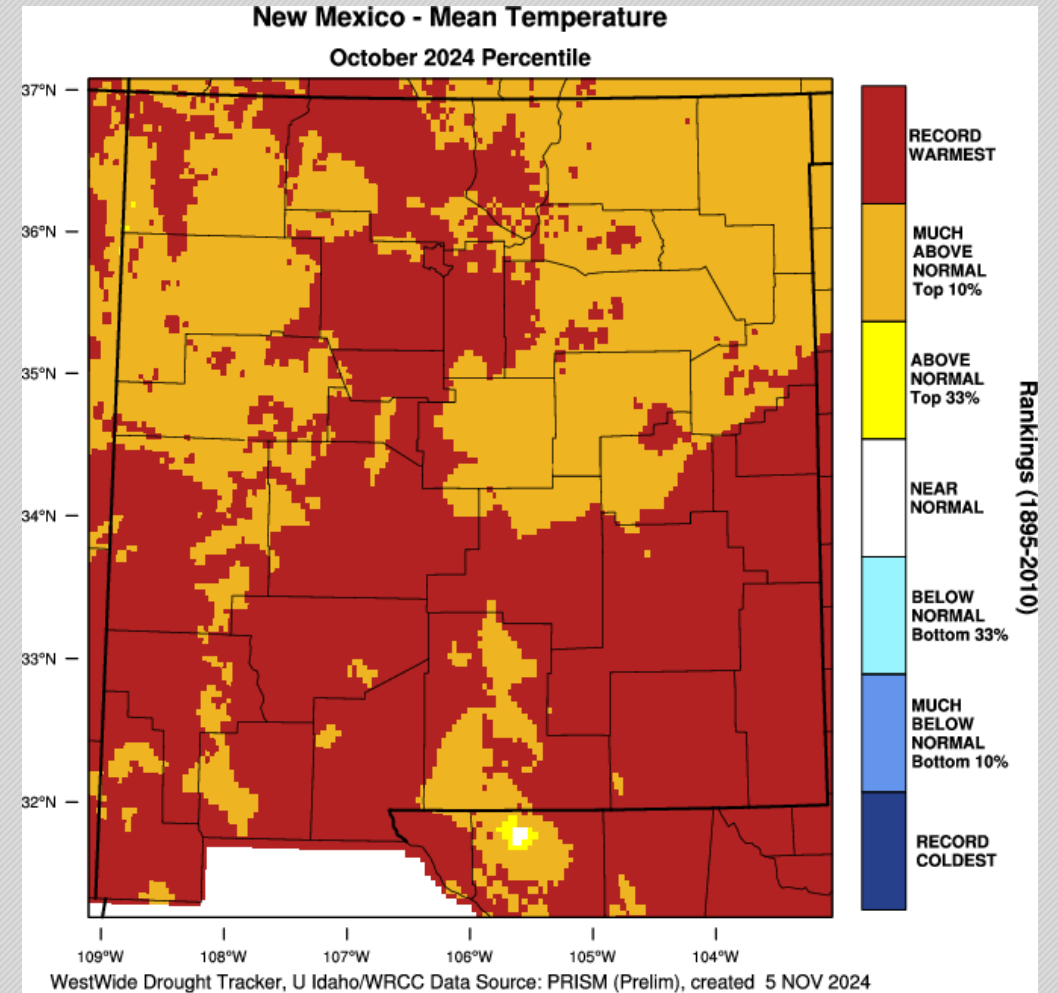


October 20 | Dexter, NM
Photo courtesy Gabriel Aguilar

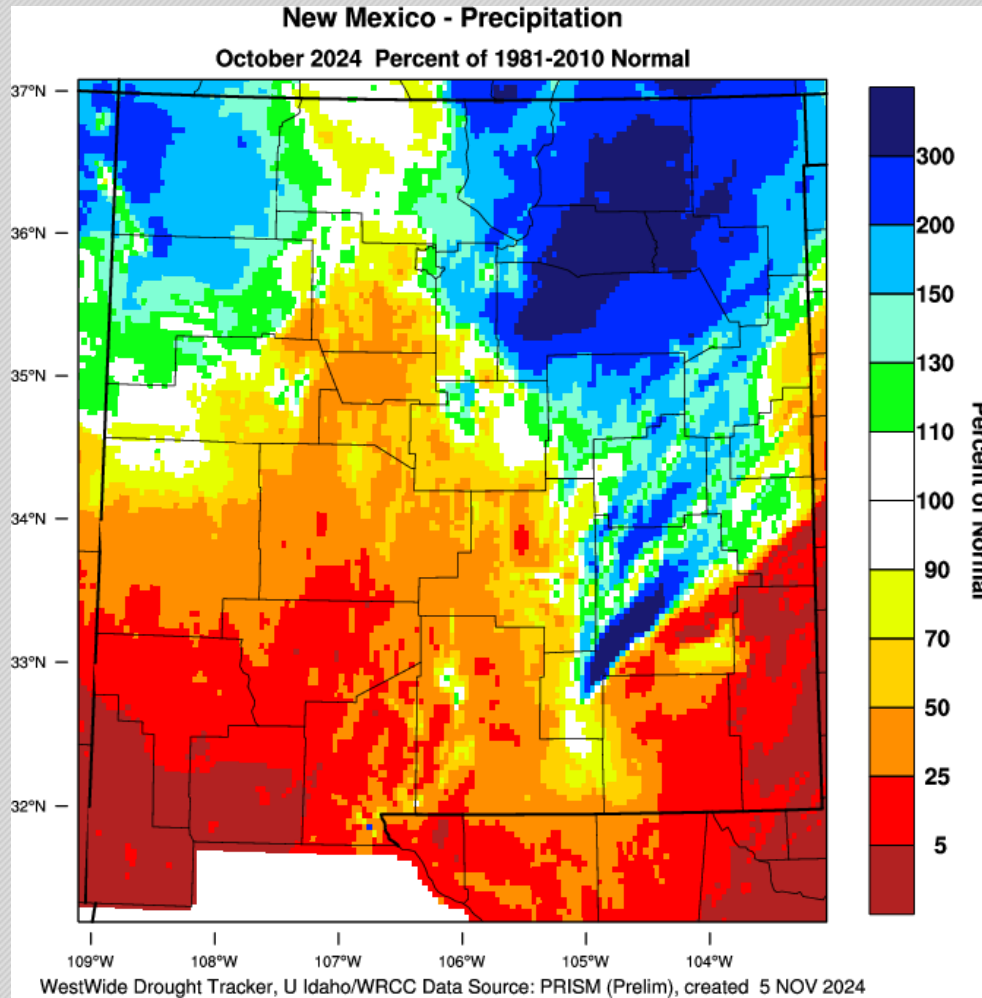
Anomaly



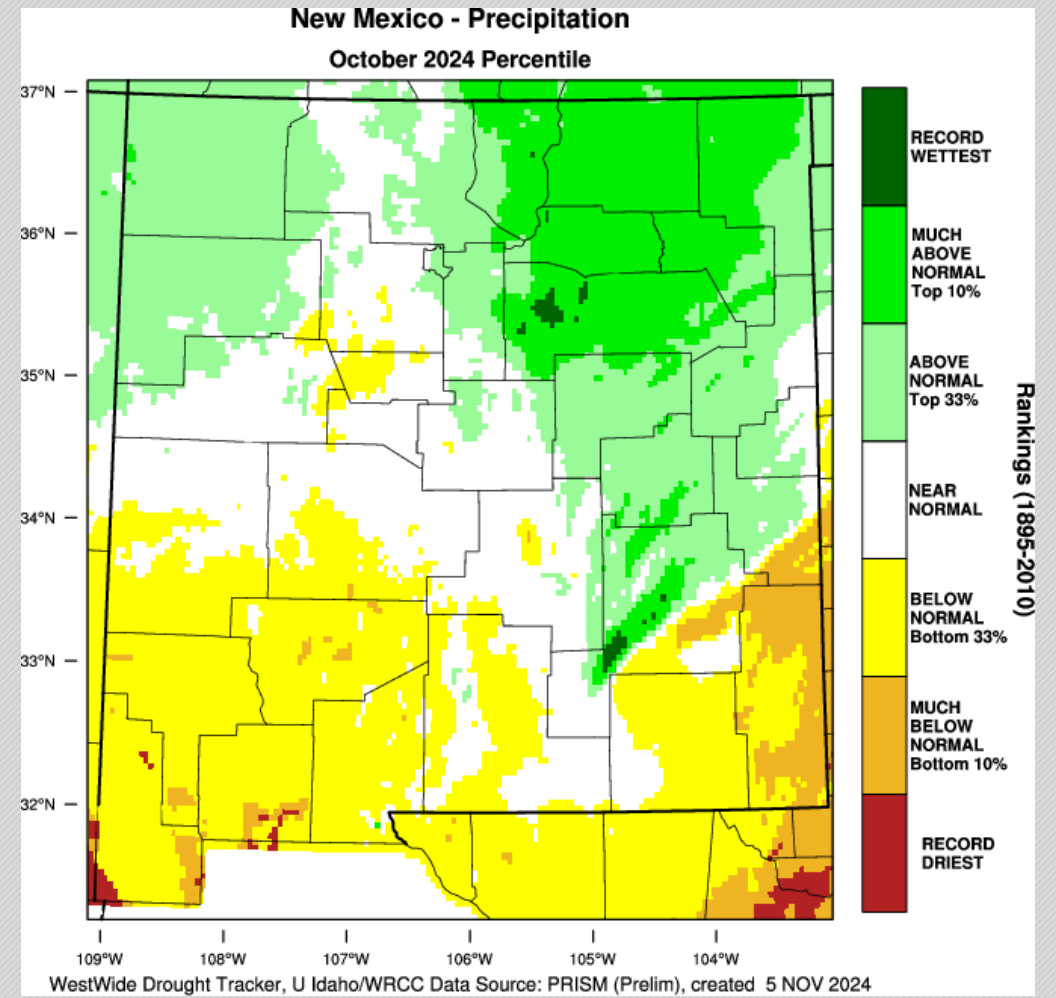
Percentile



Anomaly

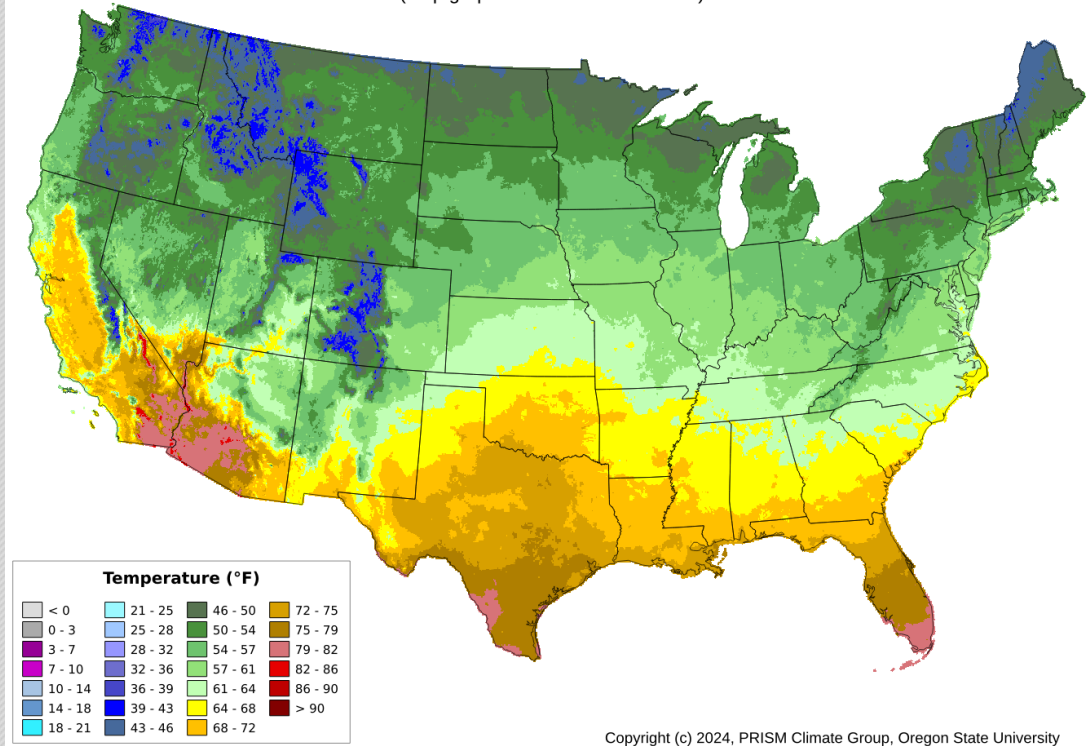


Percentile



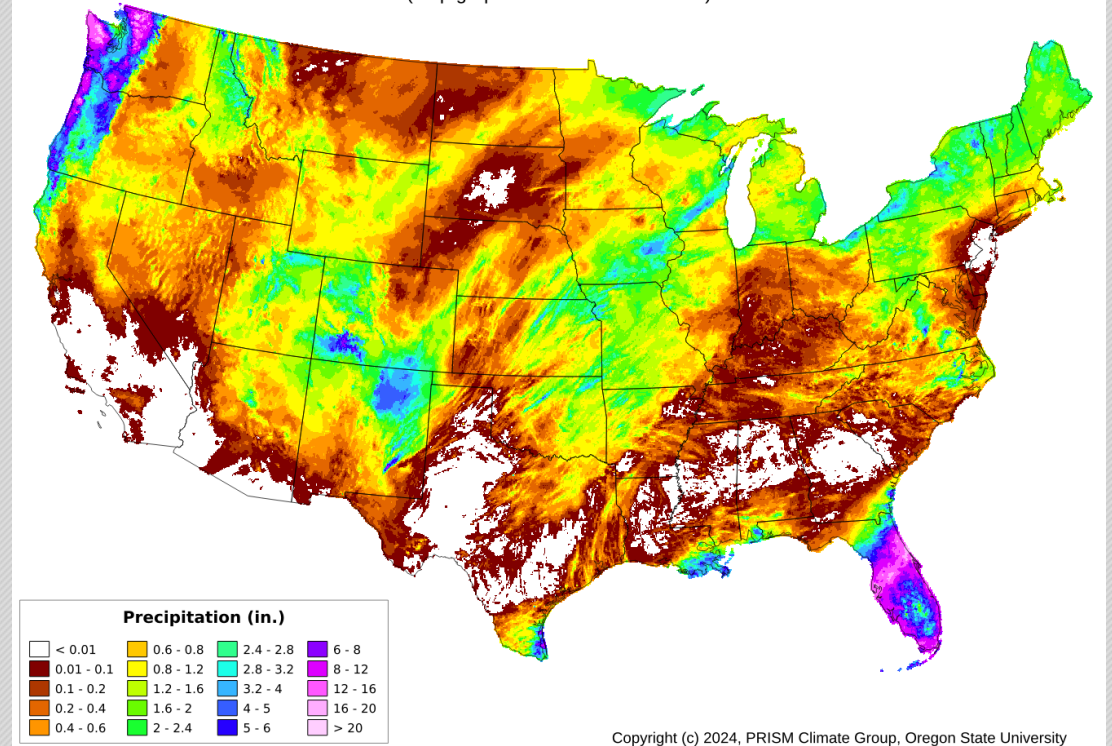
Temperatures

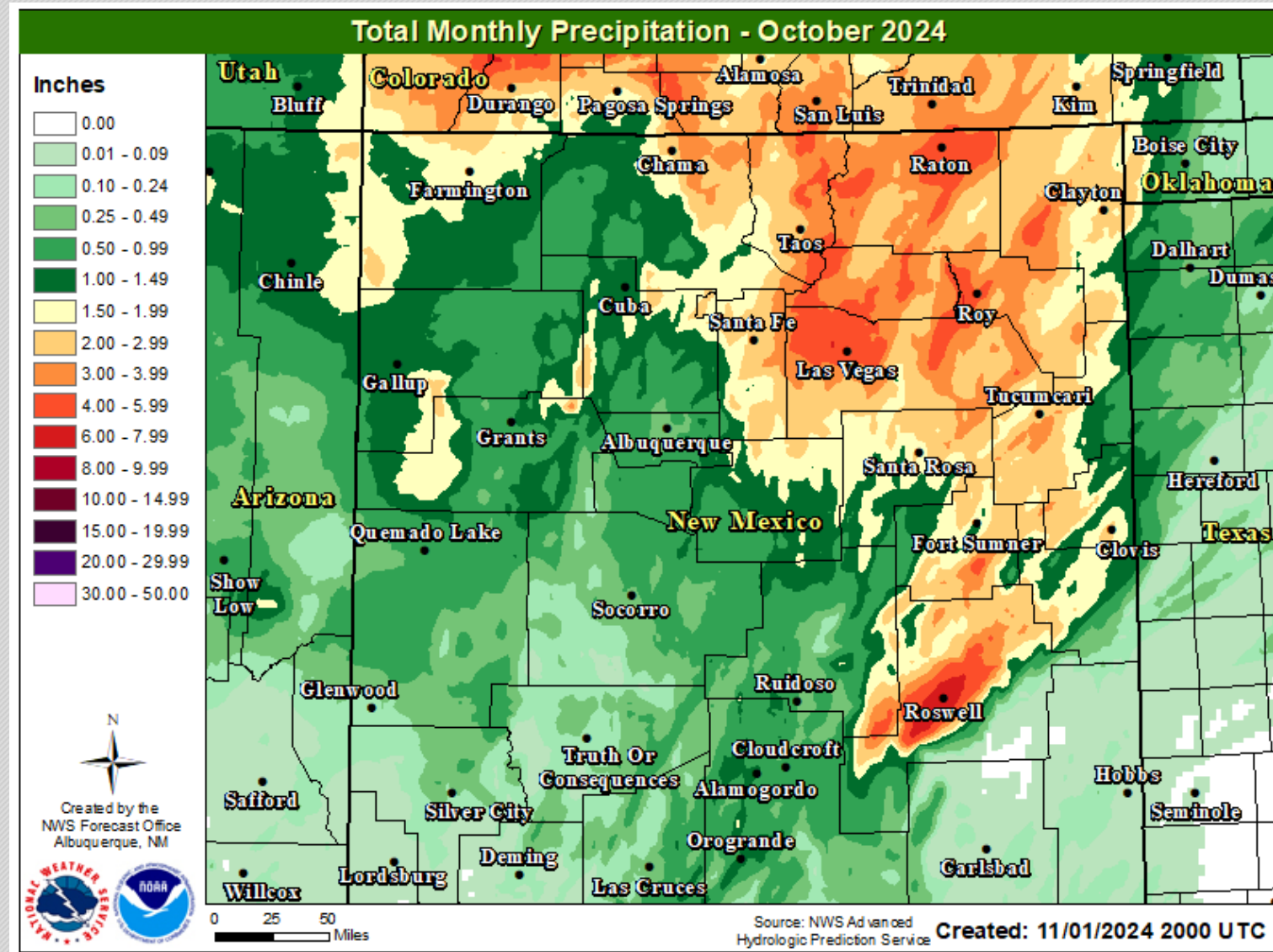
Average Daily Mean Temperature: Oct 2024
Period ending 7 AM EST 31 Oct 2024
(Map graphic created 02 Nov 2024)



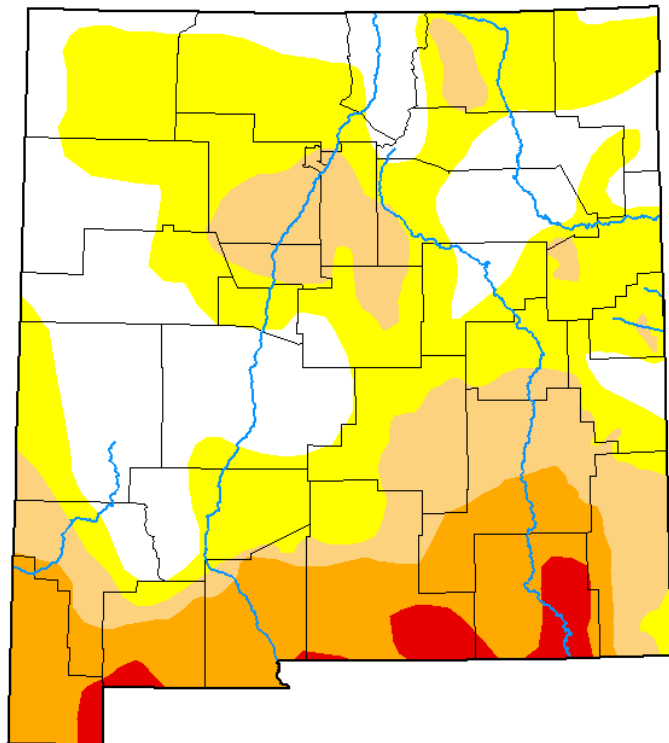
Precipitation

Total Precipitation: Oct 2024
Period ending 7 AM EST 31 Oct 2024
(Map graphic created 02 Nov 2024)





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>

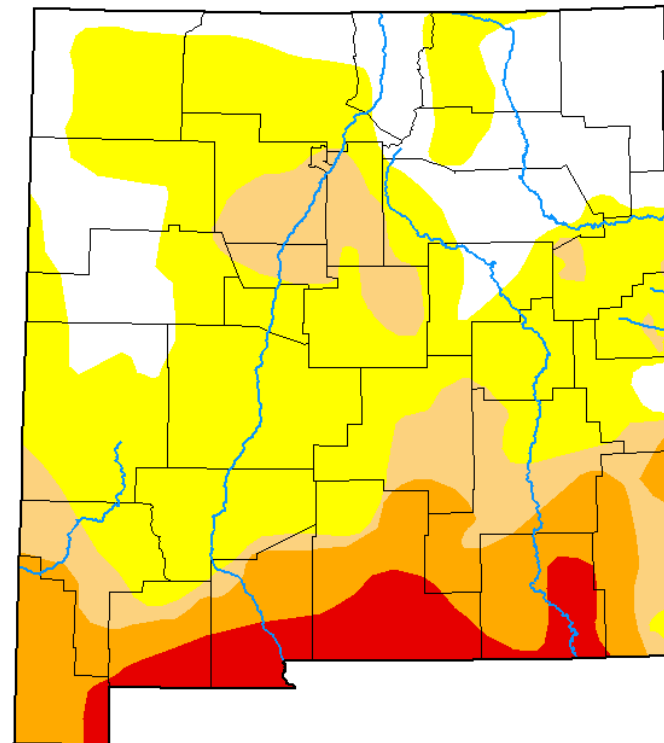
Author:

Richard Tinker
CPC/NOAA/NWS/NCEP



droughtmonitor.unl.edu

U.S. Drought Monitor New Mexico

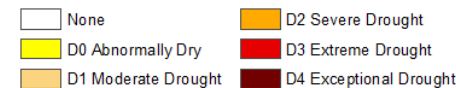


October 29, 2024
(Released Thursday, Oct. 31, 2024)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	21.33	78.67	33.32	19.61	6.52	0.00
Last Week 10-22-2024	21.24	78.76	33.19	19.25	6.52	0.00
3 Months Ago 07-30-2024	17.06	82.94	48.18	23.06	9.33	0.00
Start of Calendar Year 01-02-2024	0.71	99.29	94.04	79.22	38.39	6.48
Start of Water Year 10-01-2024	28.35	71.65	34.73	17.54	2.80	0.00
One Year Ago 10-31-2023	0.38	99.62	94.87	78.37	36.69	7.45

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:

Brian Fuchs
National Drought Mitigation Center



droughtmonitor.unl.edu

Drought conditions improved slightly in eastern NM after rounds of heavy rainfall during the middle of the month. Conditions remained largely unchanged in central and western areas.

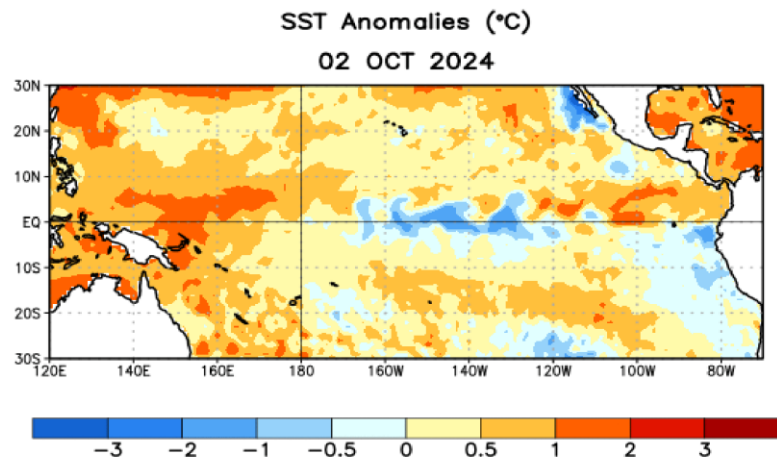


Figure 1. Average sea surface temperature (SST) anomalies (°C) for the week centered on 2 October 2024. Anomalies are computed with respect to the 1991-2020 base period weekly means. Data credit: UKMet OSTIA.

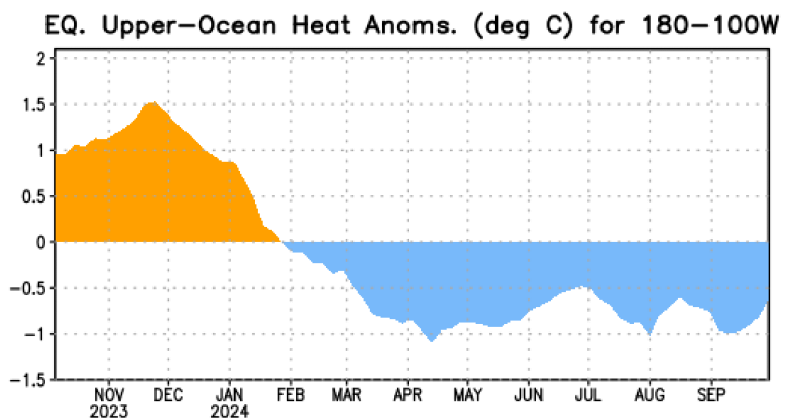


Figure 3. Area-averaged upper-ocean heat content anomaly (°C) in the equatorial Pacific (5°N-5°S, 180°-100°W). The heat content anomaly is computed as the departure from the 1991-2020 base period pentad means.

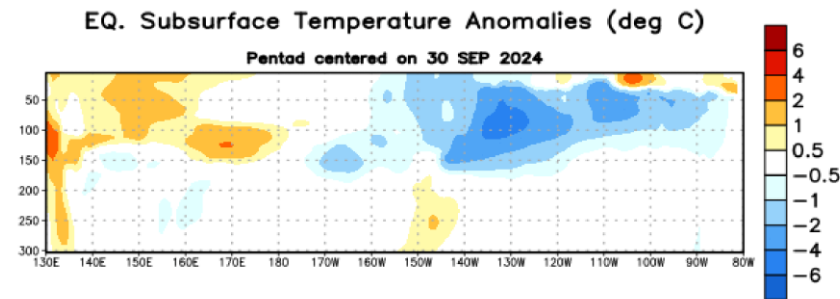


Figure 4. Depth-longitude section of equatorial Pacific upper-ocean (0-300m) temperature anomalies (°C) centered on the pentad of 30 September 2024. Anomalies are departures from the 1991-2020 base period pentad means.

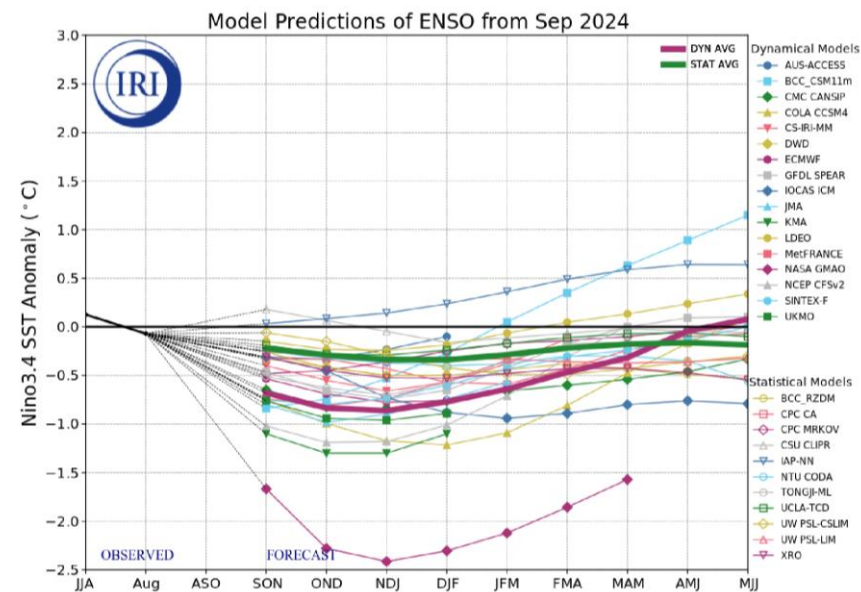
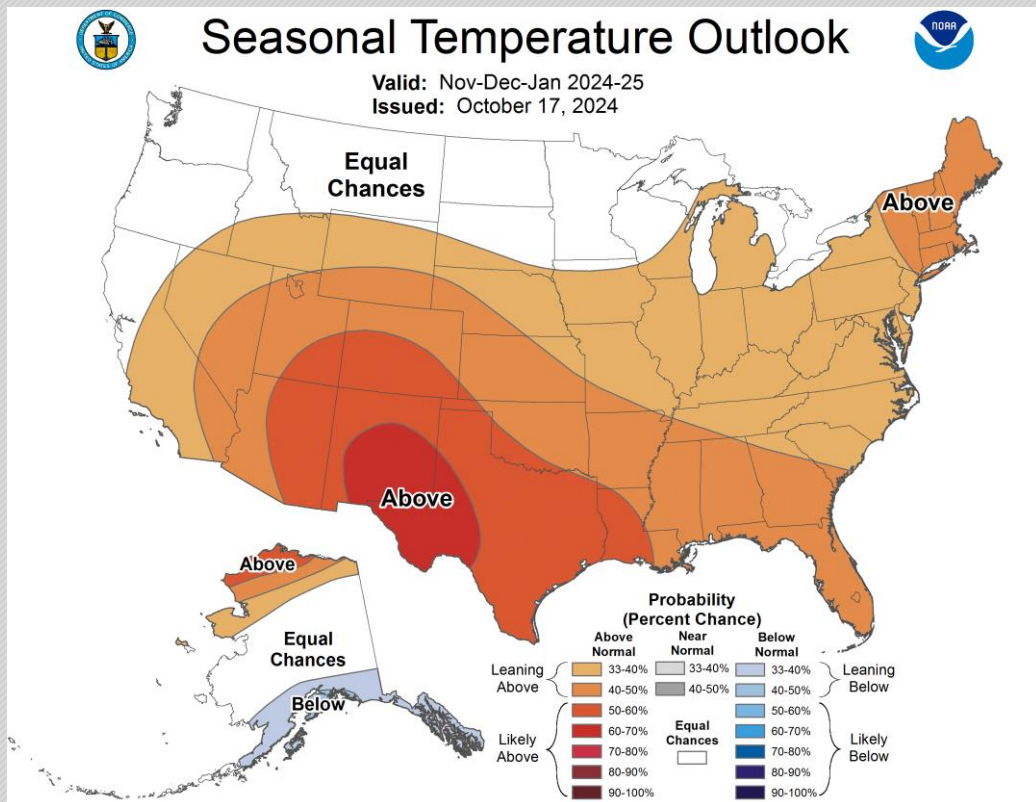
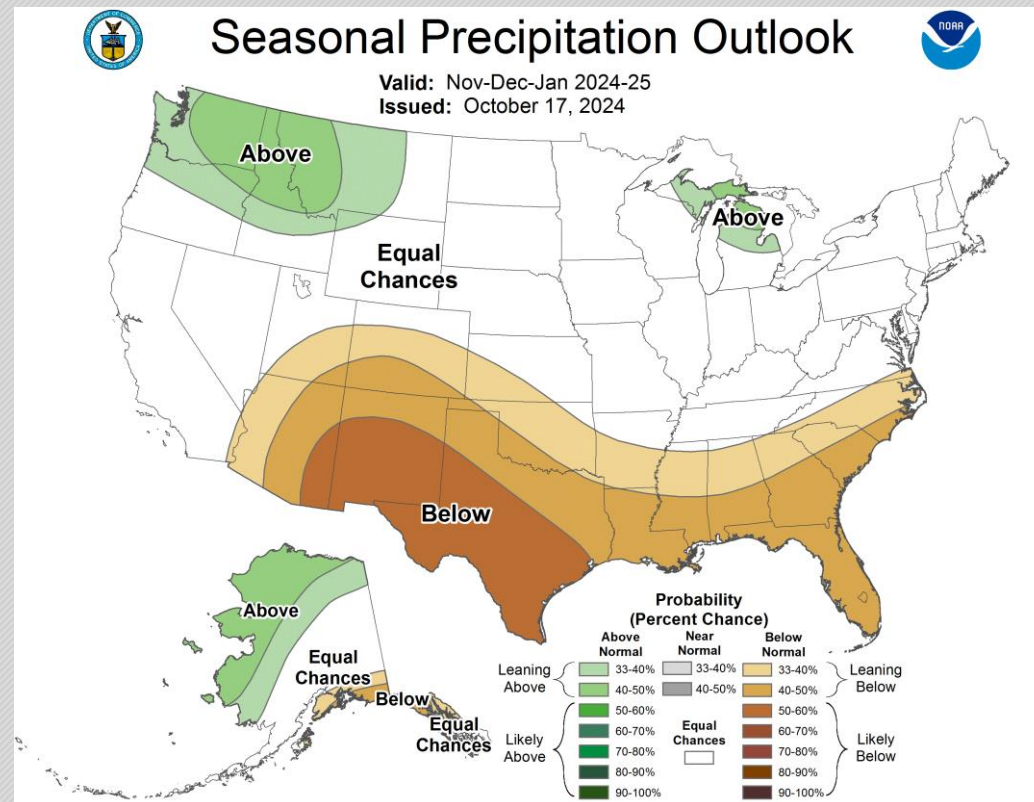


Figure 6. Forecasts of sea surface temperature (SST) anomalies for the Niño 3.4 region (5°N-5°S, 120°W-170°W). Figure updated 19 September 2024 by the International Research Institute (IRI) for Climate and Society.

Temperature November-December-January



Precipitation November-December-January

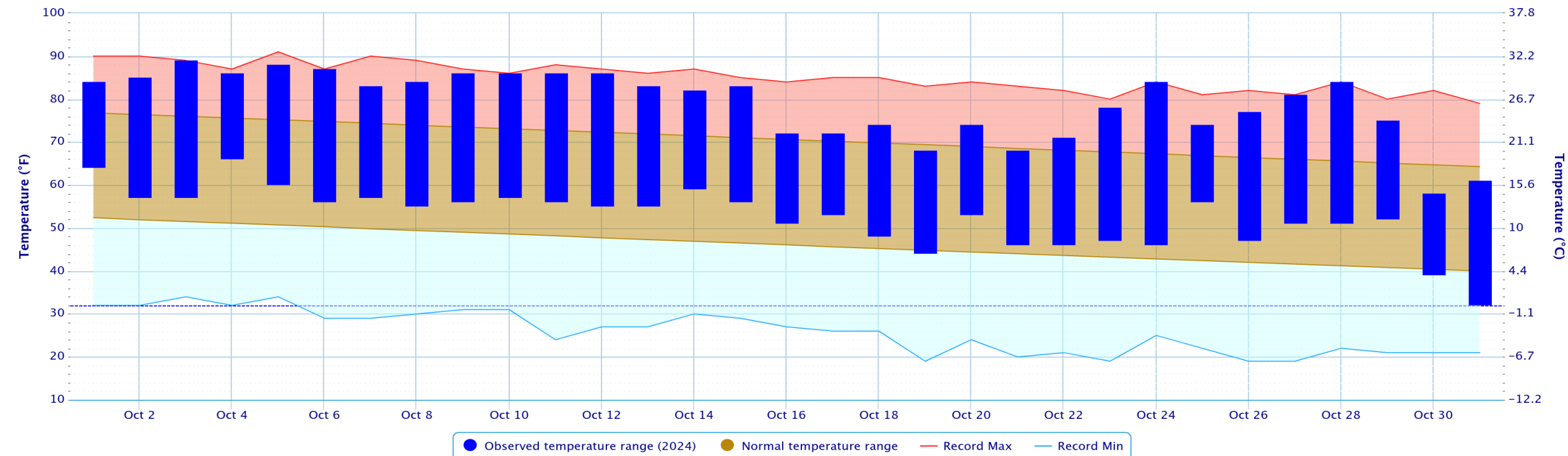


Above normal temperatures and below average precipitation are favored from November through January across all of New Mexico. Confidence is highest in the southern portion of the state.

Average Temperature: 65.8°

Daily Temperature Data – Albuquerque Area, NM (ThreadEx)

Period of Record – 1891-12-01 to 2024-11-09. Normals period: 1991-2020. Click and drag to zoom chart.



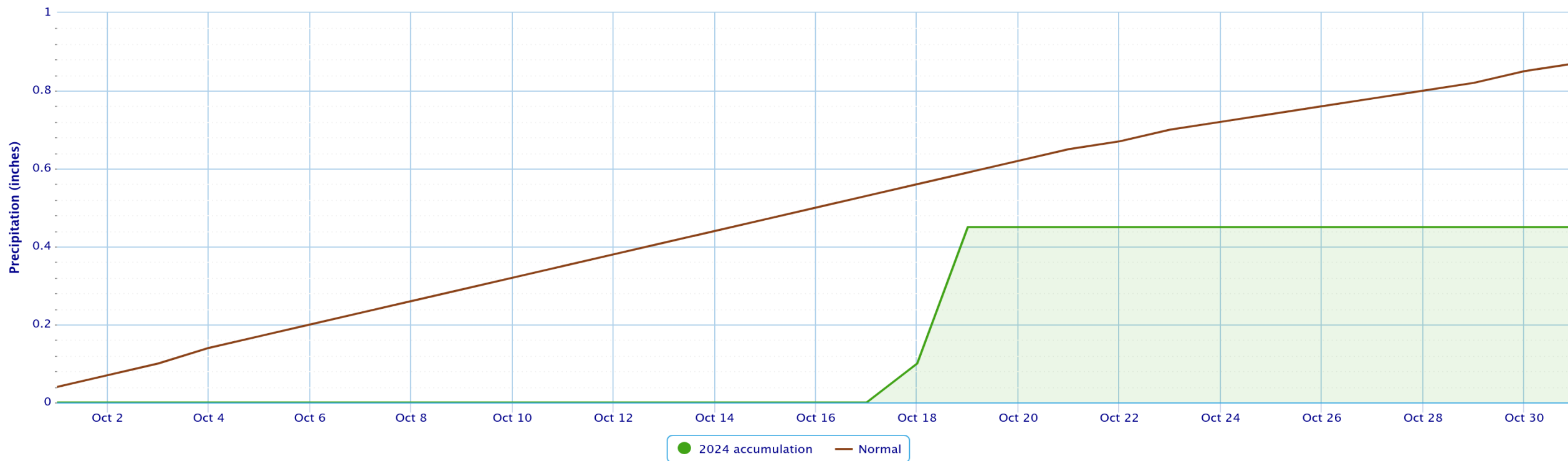
Powered by ACIS

The October 2024 average temperature for Albuquerque was 65.8°, which was 7.4° above the normal of 58.4°. The average maximum temperature for the month was 79.0°. This was 8.4° above the normal average maximum temperature of 74.8°. The average minimum temperature for the month was 52.5°. This was 6.4° above the normal average minimum temperature of 46.1°. This tied 1950 for the **warmest October on record**.

Precipitation: 0.45"

Accumulated Precipitation – Albuquerque Area, NM (ThreadEx)

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



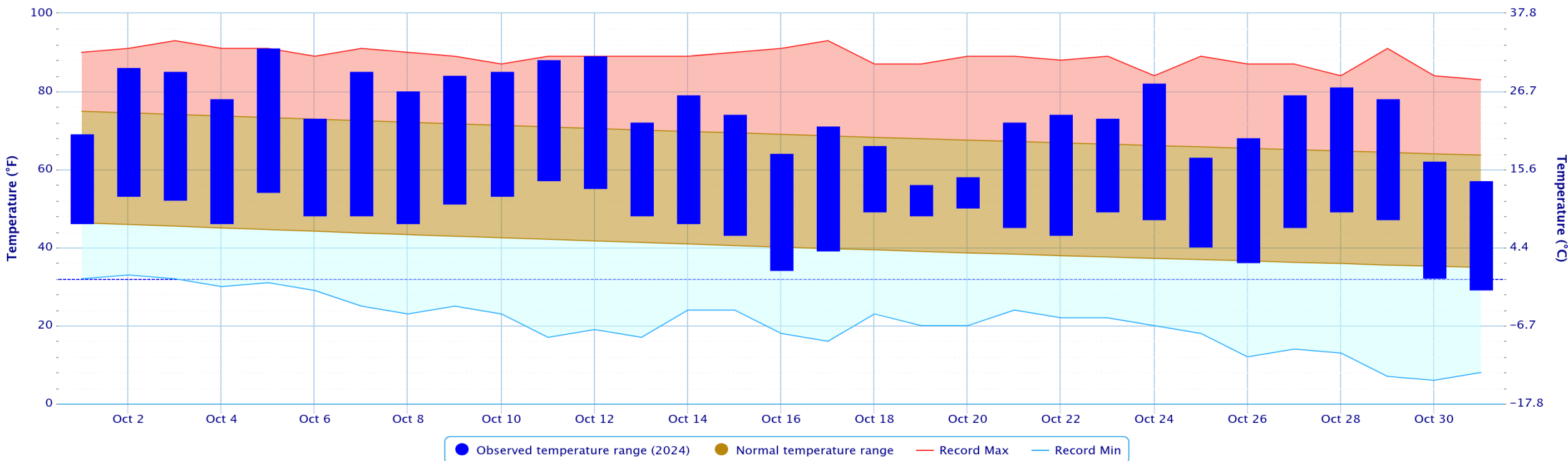
The October 2024 precipitation for Albuquerque was 0.45", which was 0.42" below the normal of 0.87". This ranked as the 62nd driest October on record.

There was 0.0" of snow compared to the normal of 0.3".

Average Temperature: 60.5°

Daily Temperature Data – Clayton Area, NM (ThreadEx)

Period of Record – 1896-02-01 to 2024-11-09. Normals period: 1991-2020. Click and drag to zoom chart.



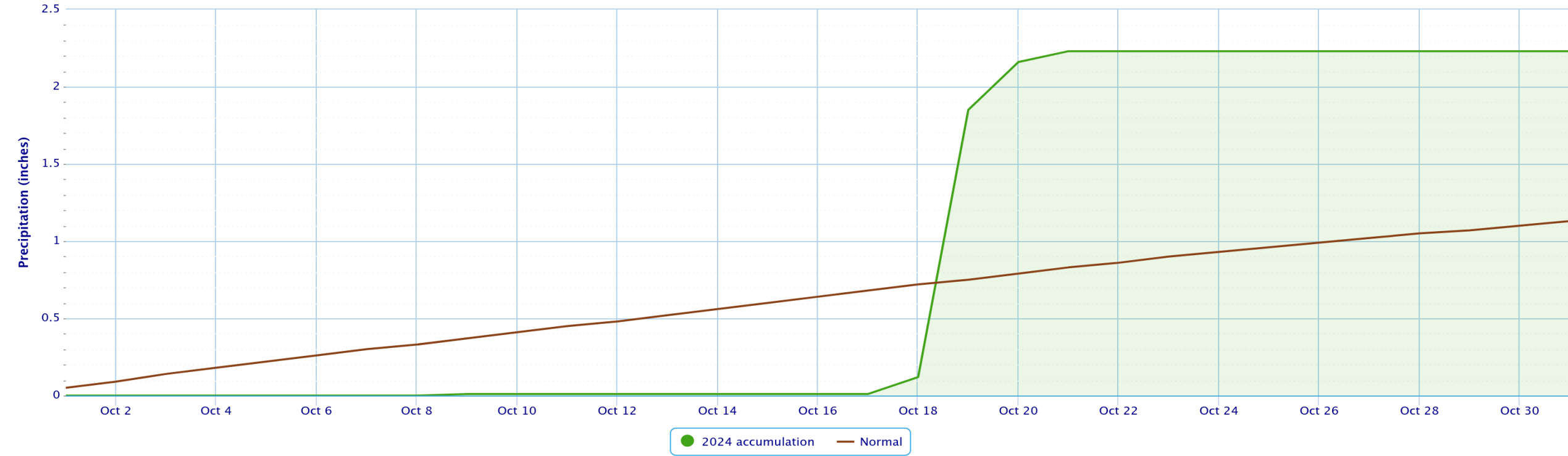
Powered by ACIS

The October 2024 average temperature for Clayton was 60.5°, which was 5.8° above the normal of 54.7°. The average maximum temperature for the month was 74.9°. This was 5.8° above the normal average maximum temperature of 69.1°. The average minimum temperature for the month was 46.1°. This was 5.8° above the normal average minimum temperature of 40.3°. This ranked as the 4th warmest October on record.

Precipitation: 2.23"

Accumulated Precipitation – Clayton Area, NM (ThreadEx)

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



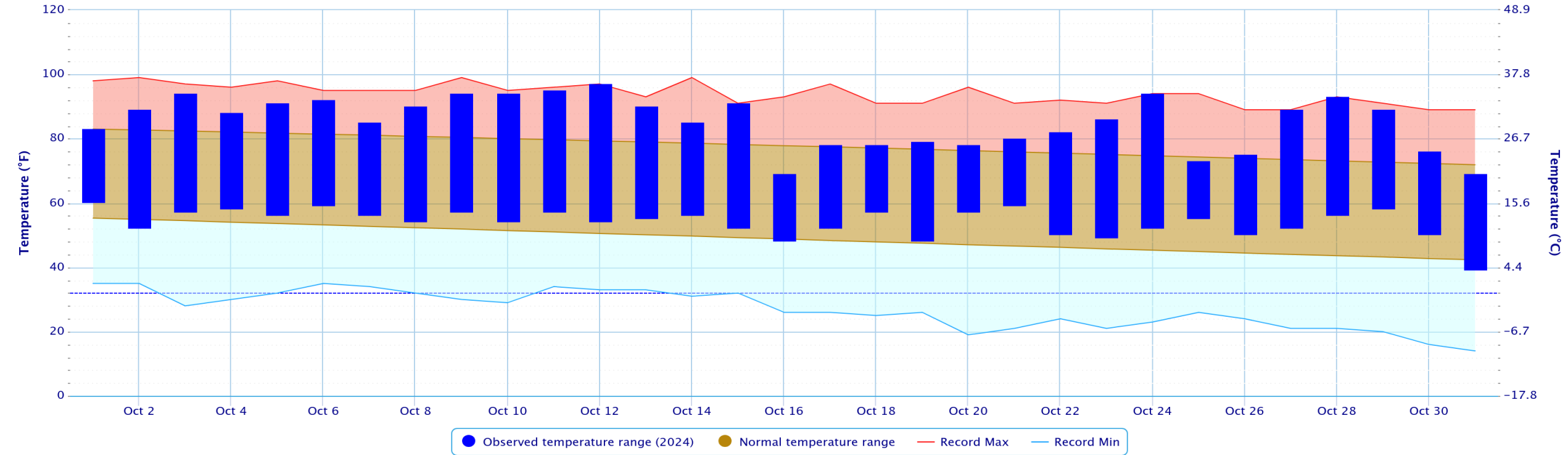
The October 2024 precipitation for Clayton was 2.23", which was 1.1" above the normal of 1.13". This ranked as the 22nd wettest October on record.

There was 0.0" of snow compared to the normal of 1.2".

Average Temperature: 69.6°

Daily Temperature Data – Roswell Area, NM (ThreadEx)

Period of Record – Max temperature: 1893-01-03 to 2024-11-09; Min temperature: 1893-01-21 to 2024-11-09. Normals period: 1991-2020. Click and drag to zoom chart.

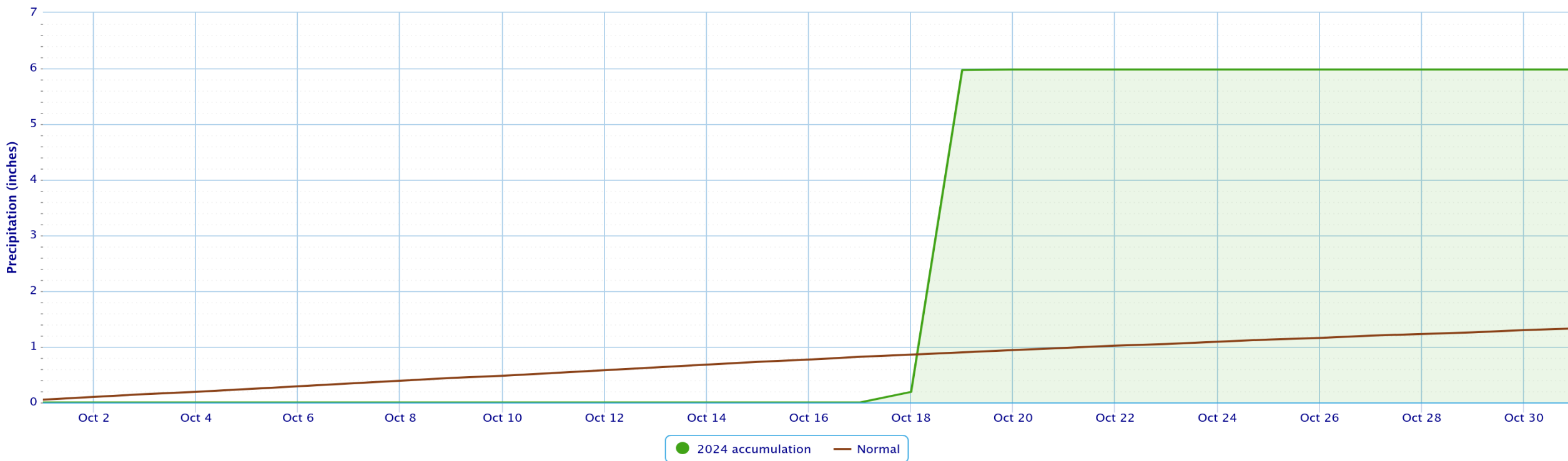


The October 2024 average temperature for Roswell was 69.6°, which was 6.4° above the normal of 63.2°. The average maximum temperature for the month was 85.4°. This was 7.7° above the average maximum temperature of 77.7°. The average minimum temperature for the month was 53.8°. This was 5.0° above the normal average minimum temperature of 48.8°. This ranked as the warmest October on record.

Precipitation: 5.98"

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 October 2024 precipitation for Roswell was 5.98", which was 4.65" above the normal of 1.33". This ranked as the **wettest October on record**.

There was 0.0" of snow compared to the normal of 0.4".


Event Type	Begin Date	County Name	Magnitude	Type	Event Narrative
High Wind	10/5/2024	MIDDLE RIO GRANDE VALLEY/ALBUQUERQUE METRO AREA	50	Gust	The Albuquerque Sunport ASOS measured a stray peak wind gust of 58mph.
Strong Wind	10/16/2024	MIDDLE RIO GRANDE VALLEY/ALBUQUERQUE METRO AREA	41	Gust	Strong east canyon winds knocked down a full grown large tree in the South Valley area of Albuquerque at La Vega Court SW and Riverside Drive SW.
Thunderstorm Wind	10/18/2024	SAN JUAN	53	Gust	A 61 mph wind gust was observed at the Farmington Four Corners Regional Airport likely from nearby shower activity.
Thunderstorm Wind	10/18/2024	SANDOVAL	54	Gust	A 62 mph wind gust was observed in Rio Rancho, possibly from nearby showers.
Thunderstorm Wind	10/18/2024	MCKINLEY	52	Gust	A 60 mph wind gust was observed at Gallup Municipal Airport likely from nearby shower activity.
Hail	10/18/2024	SAN MIGUEL	0.75"		Penny sized hail was observed near Trujillo on State Highway 104 from a quick moving strong storm.
Hail	10/18/2024	SANTA FE	1"		A severe storm dropped quarter size hail just northeast of Moriarty.
Hail	10/19/2024	CHAVES	1.5"		A severe storm dropped ping pong ball size hail in northern Chaves County near Mesa.
Hail	10/19/2024	DE BACA	0.75"		A strong storm dropped penny size hail in central De Baca County west of Fort Sumner.
Hail	10/19/2024	CHAVES	1"		Quarter size hail was reported at the Burnt Well Guest Ranch from a severe thunderstorm.
Thunderstorm Wind	10/19/2024	CHAVES	57	Gust	Thunderstorms produced a peak wind gust of 66 mph at the Roswell Air Center.
Hail	10/20/2024	SAN MIGUEL	0.88"		A strong storm dropped nickel size hail in Las Vegas, NM close to Grande Ave.
Hail	10/20/2024	SANTA FE	0.75"		A line of strong storms dropped penny size hail across Santa Fe.
Hail	10/20/2024	COLFAX	0.75"		A strong storm dropped penny size hail with accumulations of 2 to 3 inches.
Thunderstorm Wind	10/20/2024	ROOSEVELT	52	Gust	A nearby severe thunderstorm produced a 60 mph wind gust at Melrose Air Force Range.
Hail	10/20/2024	QUAY	1"		A severe storm dropped penny to quarter size hail east of Tucumcari stripping leaves off trees.
Hail	10/20/2024	QUAY	1.75"		A severe storm dropped golf ball size hail along I-40 east of Tucumcari.
Hail	10/20/2024	QUAY	0.88"		A strong to severe storm dropped nickel size hail a few miles southeast of Logan.
Hail	10/20/2024	UNION	1.5"		A severe storm dropped ping pong size hail in southwest Union County.
Flash Flood	10/19/2024	CHAVES			Flash flooding on U.S. Highway 285 washed out at mile marker 137 and mile marker 151 with impacts elsewhere on the highway north of Roswell.
Flash Flood	10/20/2024	SAN MIGUEL			Flash flooding along County Road A19A. Additionally, parts of San Pablo Creek and Tecolote Creek overflowed its banks in the Mineral Hill area.
Flash Flood	10/19/2024	CHAVES			Two feet of water reported at the Burnt Well Guest Ranch where roadways near the ranch were flooded.
Flash Flood	10/19/2024	CHAVES			Historic flooding in Roswell.
Flood	10/20/2024	CHAVES			Historic flooding in Roswell lasting until Monday October 21st.
Flood	10/20/2024	CHAVES			River flooding along the Pecos River at the ACME gage just north of U.S. Highway 70.
Flood	10/20/2024	CHAVES			Rover flooding on the Pecos River reaching 20 feet at the Lake Arthur gauge near the southern Chaves County line.
Flash Flood	10/19/2024	CHAVES			River flooding along the Rio Felix overtopping and damging the U.S. Highway 285 bridge, and overtopping the NM State Highway 2 bridge just north of Hagerman closing both bridges.
High Wind	10/29/2024	WEST CENTRAL PLATEAU	50	Gust	A 58 mph wind gust was observed at the Gallup Municipal Airport.
High Wind	10/29/2024	SOUTHWEST MOUNTAINS	52	Gust	An estimated wind gust of 60 mph was observed at the Magdalena Ridge Observatory.
High Wind	10/29/2024	CENTRAL HIGHLANDS	54	Gust	Peak wind gusts of up to 62 mph and peak sustained winds of up to 44 mph were observed at Clines Corners.
High Wind	10/29/2024	SOUTH CENTRAL MOUNTAINS	57	Gust	Peak wind gusts of up to 66 mph and peak sustained winds of up to 49 mph were observed at Sierra Blanca Regional Airport.
High Wind	10/29/2024	UNION COUNTY	50	Gust	A wind gust of 58 mph was observed at the Clayton Municipal Airpark. Additionally, high sustained winds of 44 mph were observed in Nightingale.
High Wind	10/29/2024	HARDING COUNTY	52	Gust	A high wind gust of 60 mph was observed at Hartley Ranch.
High Wind	10/29/2024	CHAVES COUNTY PLAINS	58	Gust	Peak wind gusts of up to 67 mph were observed at the Roswell Air Center.
Dust Storm	10/29/2024	CHAVES COUNTY PLAINS			Blowing dust in and around Roswell, lowering visibility to 1/4 of a mile.
High Wind	10/29/2024	NORTHEAST HIGHLANDS	50	Gust	A 58 mph wind gust was observed at the Las Vegas Municipal Airport.

*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

 NWS Albuquerque Facebook

 @NWSAlbuquerque & #nmwx