

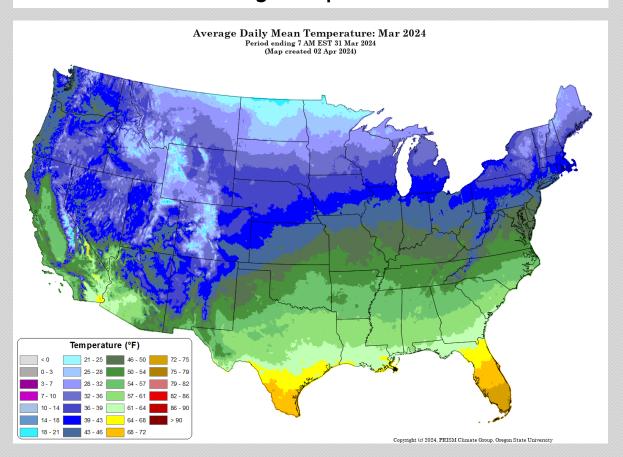
March 2024 was full of winter storms and high wind events. The month began windy and dry with rounds of strong winds in excess of 55 mph throughout eastern NM. Then, there was a transition to wetter weather around the middle of the month. A tandem of storms from the 13th through the 17th brought feet of snow to the northern mountains and wind gusts in excess of 65 mph to central and eastern NM where precipitation was mostly in the form of rain. To cap off the active month, two more high wind events created dust storms in the Roswell area on the 24<sup>th</sup> and 31<sup>st</sup>. Despite numerous days with critical fire weather conditions throughout the month, no large fires were started fortunately. Monthly precipitation was above average to well-above average across the western half of the state and near to below average across the eastern half of the state.



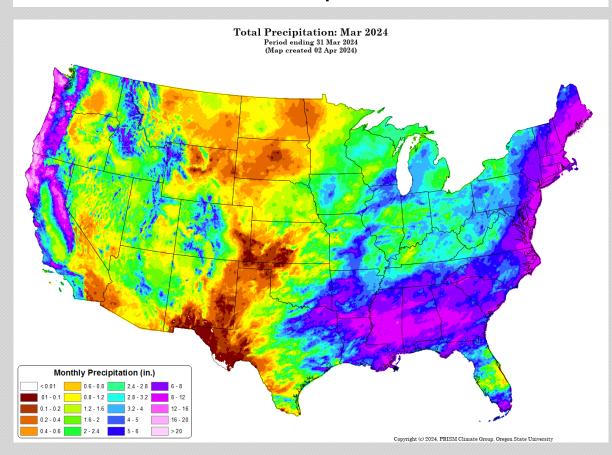


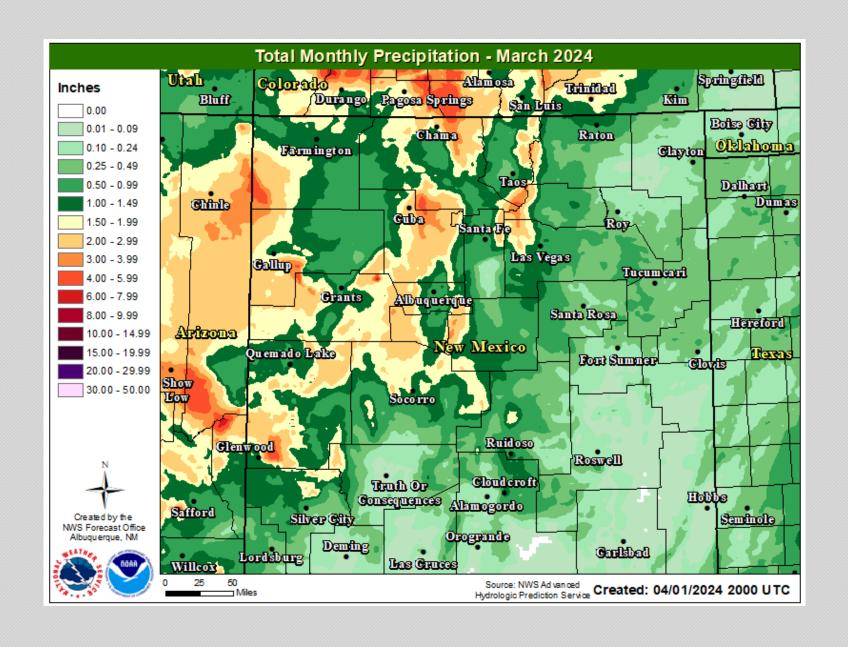


## **Average Temperatures**

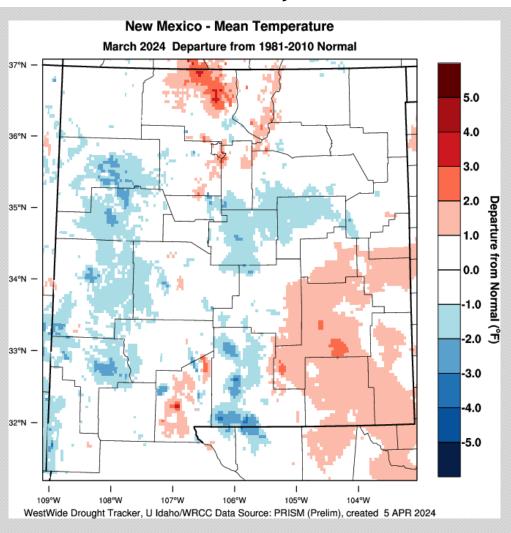


## **Total Precipitation**

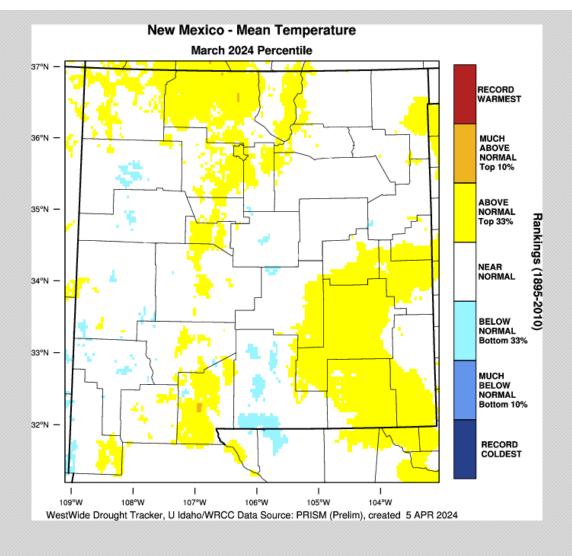




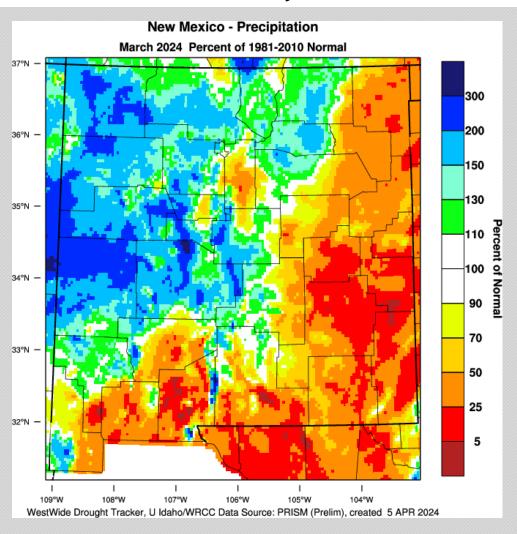
## **Anomaly**



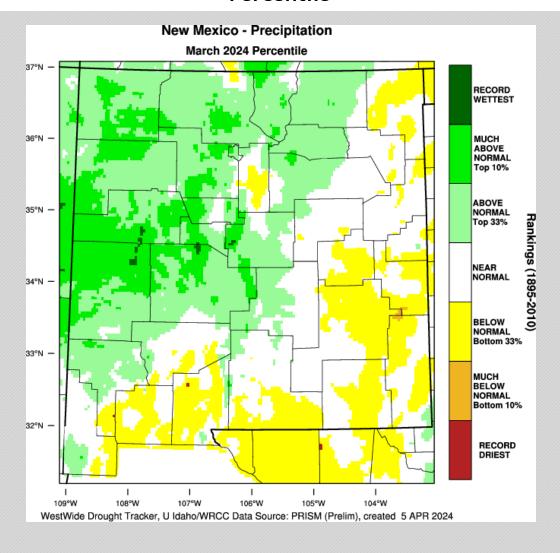
### Percentile



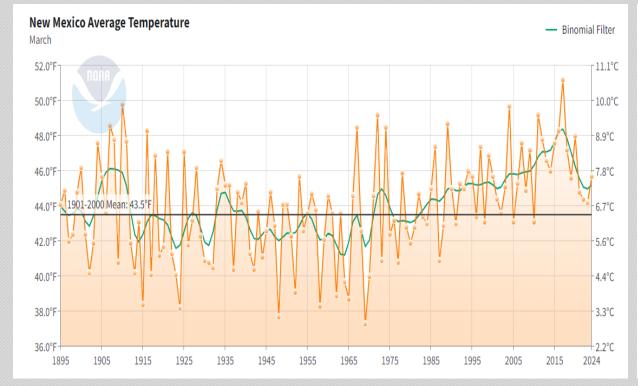
## **Anomaly**



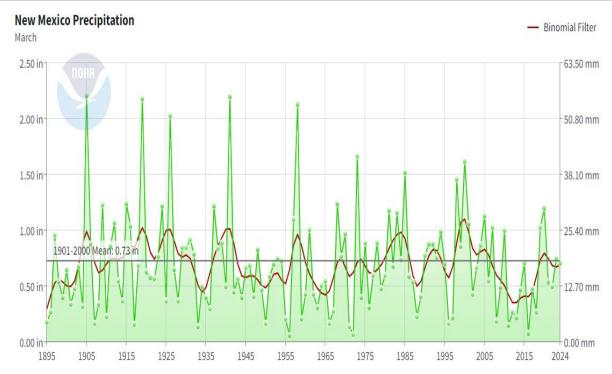
### Percentile







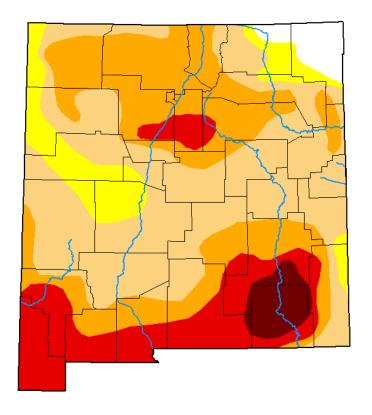
### **Precipitation**



The March 2024 average statewide temperature was  $45.7^{\circ}$ , which was  $2.2^{\circ}$  <u>above</u> the long-term normal of  $43.5^{\circ}$  (1901-2000). This ranked as the  $33^{rd}$  warmest March on record (1895-2024).

The March 2024 average statewide precipitation was 0.71", which was 0.02" <u>below</u> the long-term normal of 0.73" (1901-2000). This ranked as the 78<sup>th</sup> driest March on record (1895-2024).

U.S. Drought Monitor **New Mexico** 



### March 5, 2024

(Released Thursday, Mar. 7, 2024) Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	2.81	97.19	88.19	47.28	19.28	3.51
Last Week 02-27-2024	2.82	97.18	88.19	47.86	19.28	3.51
3 Month s Ago 12-05-2023	0.39	99.61	96.83	87.73	43.00	6.48
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 03-07-2023	28.27	71.73	37.12	15.52	3.82	0.19

#### Intensity:

None

D0 Abnormally Dry

D4 Exceptional Drought

D2 Severe Drought

D3 Extreme Drought

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:

Curtis Riganti

National Drought Mitigation Center



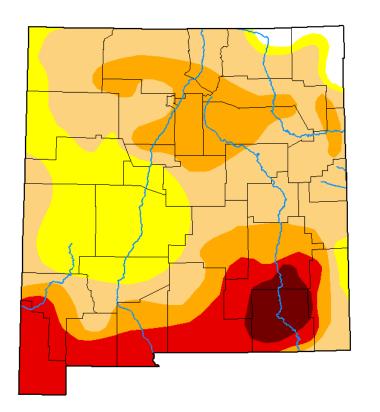






droughtmonitor.unl.edu

### U.S. Drought Monitor **New Mexico**



### March 26, 2024

(Released Thursday, Mar. 28, 2024) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	1.76	98.24	77.63	37.77	16.72	3.51
Last Week 03-19-2024	1.76	98.24	85.69	43.95	18.86	3.51
3 Month's Ago 12-26-2023	0.71	99.29	94.04	82.04	41.16	6.48
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 03-28-2023	36.06	63.94	32.91	15.67	4.20	0.21

Intensity:

D0 Abnormally Dry

D2 Severe Drought D3 Extreme Drought

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:

Brad Rippey

U.S. Department of Agriculture

D1 Moderate Drought









D4 Exceptional Drought

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Drought conditions in March improved slightly for parts of the region, mainly central and northwest NM. A more active storm track entering the western U.S. in February helped to focus the greater rain and snow across the northern and western high terrain.

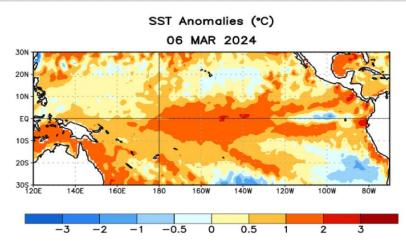


Figure 1. Average sea surface temperature (SST) anomalies (°C) for the week centered on 6 March 2024. Anomalies are computed with respect to the 1991-2020 base period weekly means.

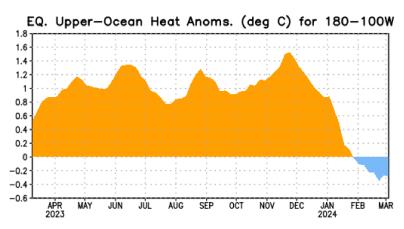


Figure 3. Area-averaged upper-ocean heat content anomaly (°C) in the equatorial Pacific (5°N-5°S, 180°-100°W). The heat content anomaly is computed as the departure from the 1991-2020 base period pentad means.

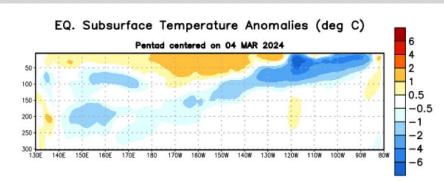
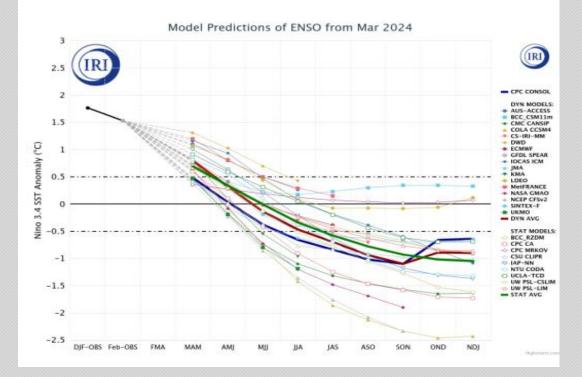
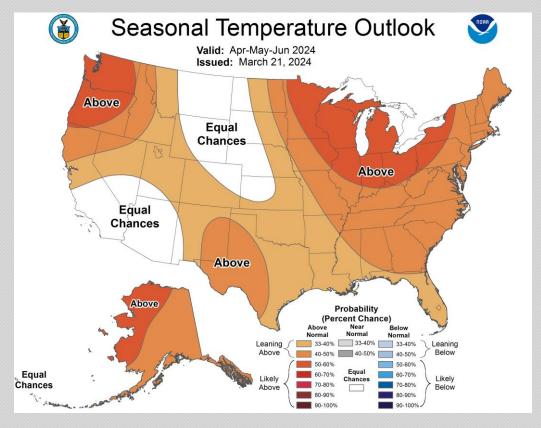


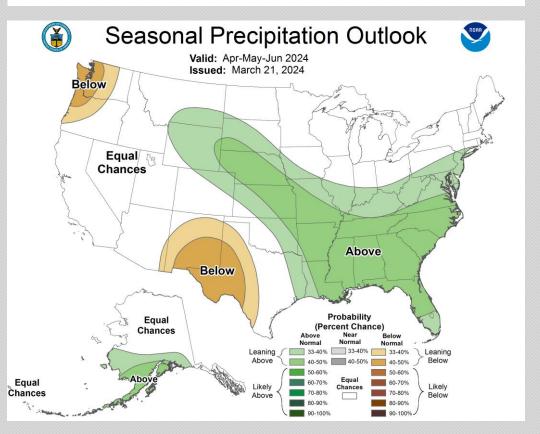
Figure 4. Depth-longitude section of equatorial Pacific upper-ocean (0-300m) temperature anomalies (°C) centered on the pentad of 4 March 2024. Anomalies are departures from the 1991-2020 base period pentad means.



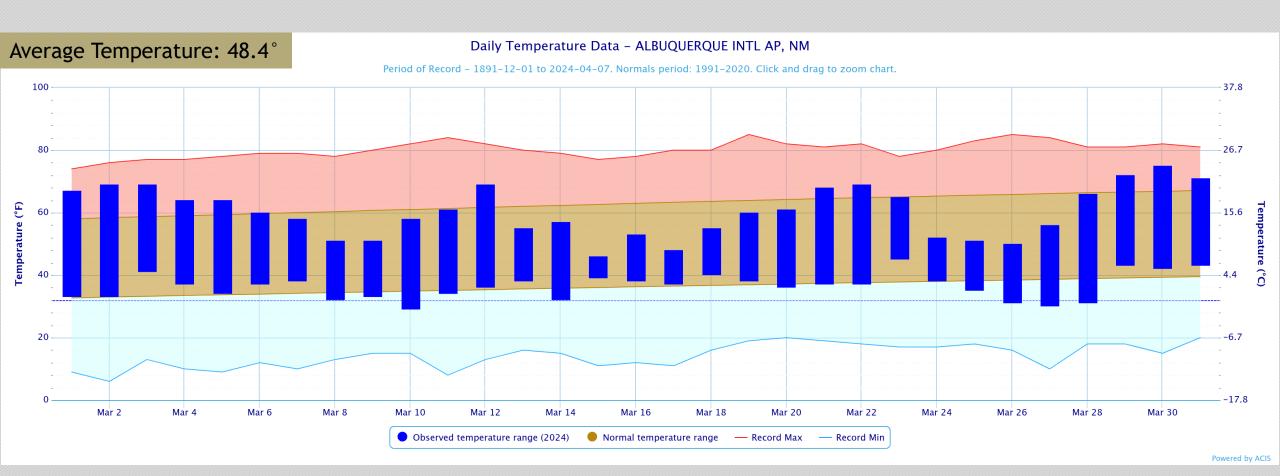




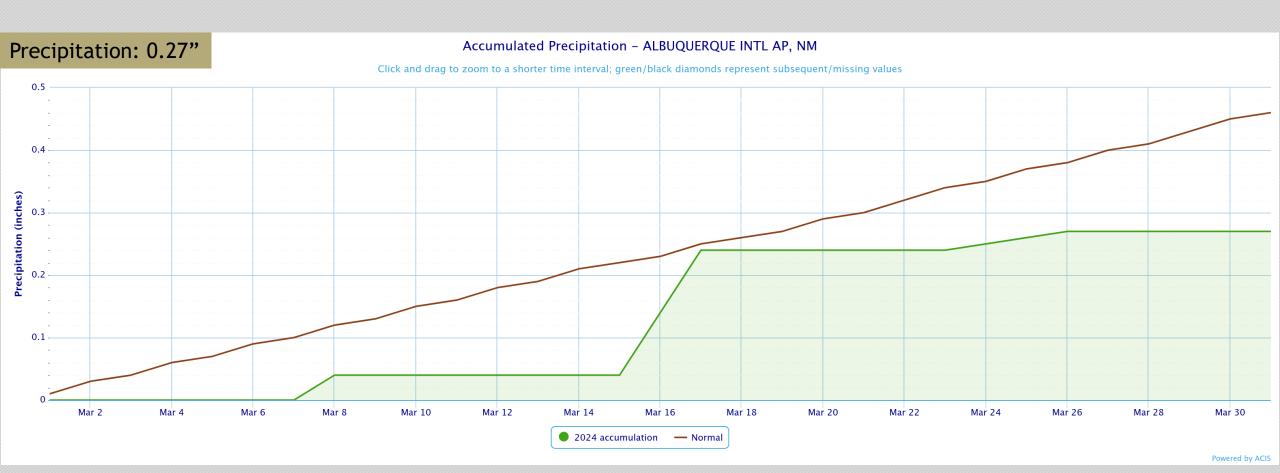
# **Precipitation** April-May-June



There are equal chances for above, near, and below normal temperatures and precipitation for most of New Mexico through the end of spring. Southeast NM has the greater likelihood to see below normal temperatures and extreme northeast NM has the greater likelihood for above normal precipitation.

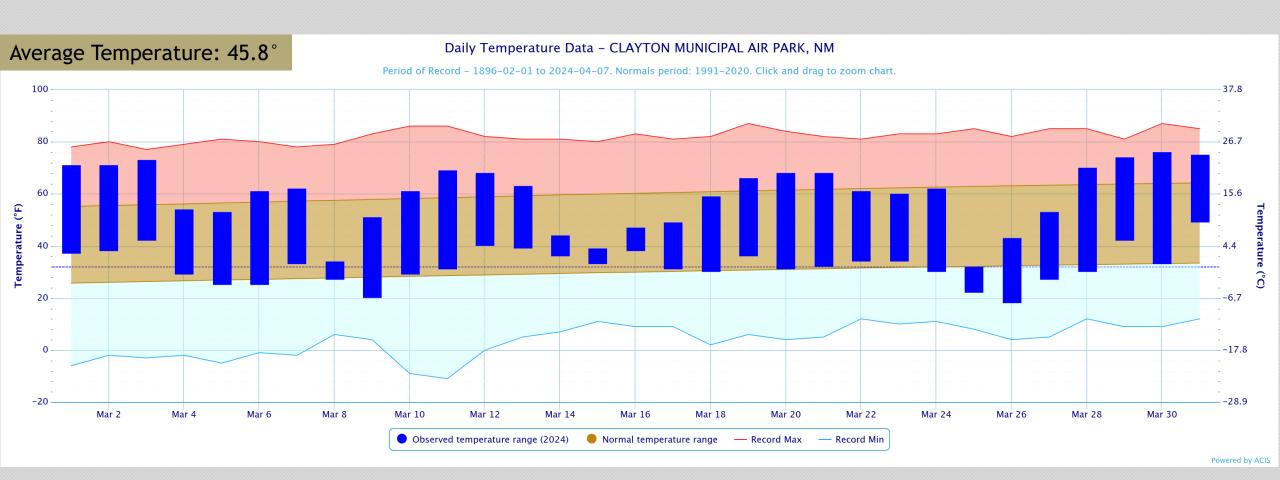


The March 2024 average temperature for Albuquerque was 48.4°, which was 1.1° <u>below</u> the normal of 49.5°. The average maximum temperature for the month was 60.4°. This was 2.4° <u>below</u> the normal average maximum temperature of 62.8°. The average minimum temperature for the month was 36.4°. This was 0.2° <u>above</u> the normal average minimum temperature of 36.2°. This ranked as the 85<sup>th</sup> coldest March on record.



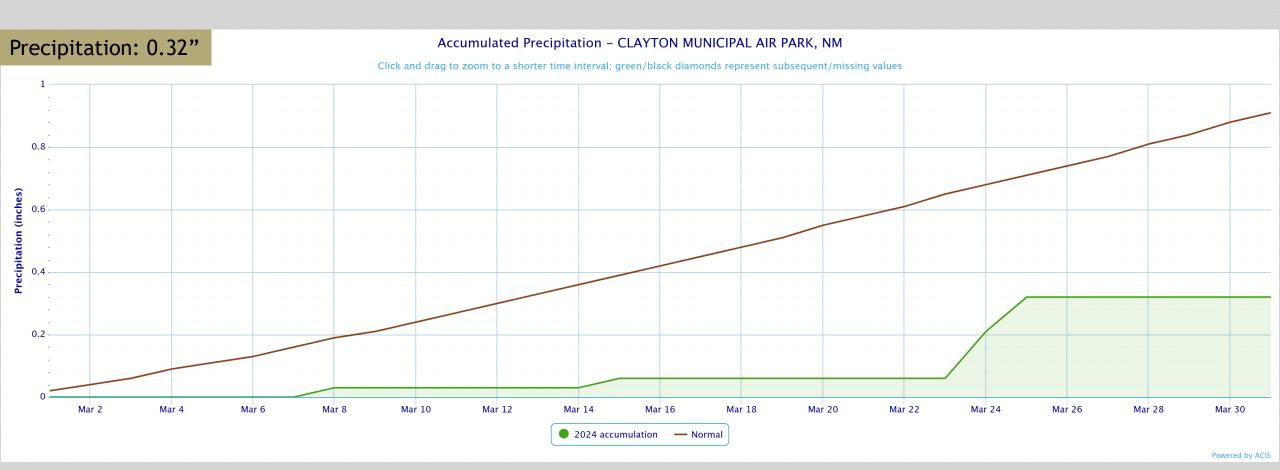
The March 2024 precipitation for Albuquerque was 0.27", which was 0.19" below the normal of 0.46". This ranked as the 56<sup>th</sup> driest March on record.

There was a Trace of snow, compared to the normal of 0.7".



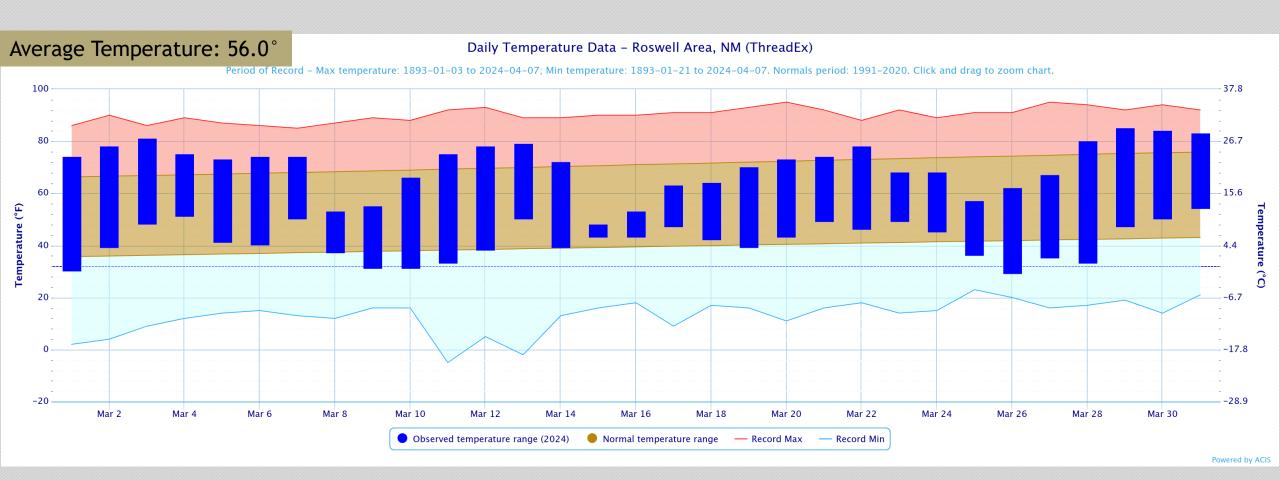
The March 2024 average temperature for Clayton was 45.8°, which was 0.9° <u>above</u> the normal of 44.9°. The average maximum temperature for the month was 59.3°. This was 0.7° <u>below</u> the normal average maximum temperature of 60.0°. The average minimum temperature for the month was 32.3°. This was 2.5° <u>above</u> the normal average minimum temperature of 29.8°. This ranked as the 28<sup>th</sup> warmest March on record.

## **Clayton Precipitation**



The March 2024 precipitation for Clayton was 0.32", which was 0.59" <u>below</u> the normal of 0.91". This ranked as the 48<sup>th</sup> driest March on record.

There was 2.0" of snow, compared to the normal of 3.4".



The March 2024 average temperature for Roswell was 56.0°, which was 0.8° <u>above</u> the normal of 55.2°. The average maximum temperature for the month was 70.5°. This was 0.5° <u>below</u> the average maximum temperature of 71.0°. The average minimum temperature for the month was 41.5°. This was 2.1° <u>above</u> the normal average minimum temperature of 39.4°. This ranked as the 12<sup>th</sup> warmest March on record.



The March 2024 precipitation for Roswell was 0.12", which was 0.42" <u>below</u> the normal of 0.54". This ranked as the 31st driest March on record.

There was 0.0" of snow, compared to the normal of 0.7".

## March 2024

## **Preliminary Weather Reports\***

Event Type	Begin Date	County Name	Magnitude	Туре	Event Narrative
High Wind	3/3/2024	WEST CENTRAL PLATEAU	50 kt	Gust	The Gallup Municipal airport observed a wind gust of 58 mph at 13:21 MST.
High Wind	3/3/2024	SOUTH CENTRAL MOUNTAINS	56 kt	Gust	The Nogal ZiaMet station observed a peak wind gust of 64 mph at 9:00 MST.
High Wind	3/2/2024	NORTHERN SANGRE DE CRISTO MOUNTAINS	60 kt	Gust	A public weather station at Kachina Peak in Taos Ski Valley observed a peak wind gust of 69 mph at 21:00 MST on March 2nd.
High Wind	3/3/2024	FAR NORTHEAST HIGHLANDS	57 kt	Gust	The Raton Municipal Airport observed a peak wind gust of 66 mph.
High Wind	3/3/2024	NORTHEAST HIGHLANDS	53 kt	Gust	The Las Vegas Municipal airport observed a peak wind gust of 61 mph.
High Wind	3/3/2024	UNION COUNTY	59 kt	Gust	The Clayton Municipal Airport observed a high wind gusts of 68 mph.
High Wind	3/3/2024	GUADALUPE COUNTY	52 kt	Gust	The Vaughn ZiaMet station observed a peak wind gust of 60 mph.
High Wind	3/3/2024	JOHNSON AND BARTLETT MESAS INCLUDING RATON PASS	52 kt	Gust	A COOP observer at Sugarite Canyon estimated wind gusts as high as 60 mph.
High Wind	3/3/2024	HARDING COUNTY	52 kt	Gust	A trained spotter just south of Roy estimated wind gusts as high as 60 mph.
Heavy Snow	3/8/2024	SANDIA/MANZANO MOUNTAINS INCLUDING EDGEWOOD	8.3 "		A CoCoRaHS observer at Sandia Park observed 8.3 inches of snowfall.
Heavy Snow	3/8/2024	SOUTHERN SANGRE DE CRISTO MOUNTAINS	15 "		The Ski Santa Fe resort observed 15 inches of snowfall.
Heavy Snow	3/8/2024	JEMEZ MOUNTAINS	14 "		The Pajarito Ski Resort observed 14 inches of snowfall.
Heavy Snow	3/15/2024	WEST CENTRAL MOUNTAINS	6 "		The Rice Park SNOTEL site observed an estimated snowfall accumulation of 6 inches.
Heavy Snow	3/15/2024	SOUTHWEST MOUNTAINS	10 "		A CoCoRaHS observer in Pietown observed 10 inches of snowfall.
Heavy Snow	3/14/2024	JEMEZ MOUNTAINS	20 "		The Pajarito Ski Resort near Los Alamos observed 20 inches of snowfall over the time period.
Heavy Snow	3/14/2024	NORTHERN SANGRE DE CRISTO MOUNTAINS	10 "		The Red River ski area observed 10 inches of snowfall during the time period.
Heavy Snow	3/14/2024	EAST SLOPES SANGRE DE CRISTO MOUNTAINS	12 "		An observer in Holman measured 12 inches of snowfall. Angel Fire ski resort observed 10 inches of snowfall.
Heavy Snow	3/14/2024	SANDIA/MANZANO MOUNTAINS INCLUDING EDGEWOOD	8 "		The Sandia ski area observed 8 inches during the time period.
Heavy Snow	3/14/2024	JOHNSON AND BARTLETT MESAS INCLUDING RATON PASS	6 "		The Raton Port of Entry reported 6 inches of snowfall.
Heavy Snow	3/14/2024	FAR NORTHEAST HIGHLANDS	8 "		A spotter just south of Cimarron reported 8 inches of snowfall.
High Wind	3/15/2024	MIDDLE RIO GRANDE VALLEY/ALBUQUERQUE METRO AREA	61 kt	Gust	A public weather station near Carnuel measured a peak wind gust of 70 mph. There were reports of roof damage to structures in southeastern Albuquerque.
High Wind	3/15/2024	SOUTH CENTRAL HIGHLANDS	62 kt	Gust	The Tower mesonet station in the White Sands Missile Range measured a peak gust of 71 mph.
Heavy Snow	3/16/2024	CHUSKA MOUNTAINS	10 "		The Navajo Whiskey SNOTEL observed an estimated 10 inches of snow.
Heavy Snow	3/16/2024	TUSAS MOUNTAINS INCLUDING CHAMA	10 "		The San Antonio SNOTEL observed an estimated 10 inches of snow. There were reports of 3 to 6 inches of snow elsewhere in the zone.
Heavy Snow	3/16/2024	JEMEZ MOUNTAINS	13 "		The Pajarito Ski area reported 13 inches of snow. There were reports of 4 to 11 inches elsewhere in the zone.
Heavy Snow	3/16/2024	SOUTHERN SANGRE DE CRISTO MOUNTAINS	12 "		The Wesner Springs SNOTEL reported 12 inches of snow. There were reports of 3 to 8 inches elsewhere in the zone.
Heavy Snow	3/16/2024	EAST SLOPES SANGRE DE CRISTO MOUNTAINS	18 "		There was a public report of 18 inches of snow near Chacon, NM. There were reports of 5 to 11 inches elsewhere in the zone.
Heavy Snow	3/16/2024	SANDIA/MANZANO MOUNTAINS INCLUDING EDGEWOOD	10 "		The Sandia Ski area reported 10 inches of snow. There were reports of 2 to 9 inches elsewhere in the zone.

\*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: <a href="https://www.ncdc.noaa.gov/stormevents/">https://www.ncdc.noaa.gov/stormevents/</a>

## March 2024

## **Preliminary Weather Reports\***

Event Type	Begin Date	County Name	Magnitude	Туре	Event Narrative
Heavy Snow	3/16/2024	NORTHEAST HIGHLANDS	6 "		The National Wildlife Refuge office in Las Vegas reported 6 inches of snow.
High Wind	3/24/2024	MIDDLE RIO GRANDE VALLEY/ALBUQUERQUE METRO AREA	52	Gust	The Albuquerque Sunport measured a peak gust of 60 mph.
High Wind	3/24/2024	LOWER RIO GRANDE VALLEY	58	Gust	The Zumwalt White Sands Missile Range mesonet station measured a peak gust of 67 mph.
High Wind	3/24/2024	CENTRAL HIGHLANDS	51	Gust	The Clines Corners ASOS measured a peak wind gust 59 mph.
High Wind	3/24/2024	UPPER TULAROSA VALLEY	54	Gust	The Pole 616 White Sands Missile Range mesonet station measured a peak gust of 62 mph.
High Wind	3/24/2024	NORTHEAST HIGHLANDS	50	Gust	The Las Vegas Airport measured a peak gust of 58 mph.
High Wind	3/24/2024	UNION COUNTY	35	Gust	The Amistad mesonet station measured high sustained winds peaking at 40 mph.
High Wind	3/24/2024	SOUTH CENTRAL MOUNTAINS	63	Gust	A public weather station near Buck Mountain measured a peak wind gust of 73 mph. High sustained winds peaking to 43 mph were also observed.
High Wind	3/24/2024	HARDING COUNTY	51	Gust	A public weather station at the Tequesquite Ranch measured a peak wind gust of 59 mph.
High Wind		EASTERN SAN MIGUEL COUNTY	56	Gust	A public weather station at the Conchas Dam measured a peak wind gust of 65 mph.
High Wind		GUADALUPE COUNTY	51	Gust	The SE Vaughn mesonet station measured high sustained winds peaking at 59 mph.
High Wind	3/24/2024	QUAY COUNTY	53	Gust	The Tucumcari Airport measured a peak gust of 61 mph.
High Wind	3/24/2024	CURRY COUNTY	58	Gust	The Cannon Air Force Base measured a peak gust of 67 mph. Peak gusts of 62 to 66 mph were measured elsewhere in the zone.
High Wind		ROOSEVELT COUNTY	50	Gust	The Roosevelt SWCD mesonet measured a peak gust of 58 mph.
High Wind	3/24/2024	DE BACA COUNTY	55	Gust	A mesonet station east of Fort Sumner measured a peak gust of 63 mph. High sustained winds peaking to 45 mph were also measured.
High Wind	3/24/2024	CHAVES COUNTY PLAINS	65	Gust	The Roswell Airport measured a peak gust of 75 mph, as well as high sustained winds peaking to 54 mph with blowing dust.
High Wind	3/24/2024	SOUTHWEST CHAVES COUNTY	50	Gust	The Dunken RAWS station measured a peak gust of 58 mph.
Dust Storm	3/24/2024	CHAVES COUNTY PLAINS			The NMDOT closed U.S. Highway 285 from Roswell to Artesia due to near zero visibility from a dust storm.
Heavy Snow	3/24/2024	TUSAS MOUNTAINS INCLUDING CHAMA	13 "		There was an estimated 13 inches at the Hopewell SNOTEL. Three to nine inches fell elsewhere in the zone.
99		NORTHERN SANGRE DE CRISTO MOUNTAINS	40 "		The Taos Ski Valley measured 40 inches of snow during this timeframe. Five to 25 inches of snow fell elsewhere in the zone.
Heavy Snow	3/24/2024	SOUTHERN SANGRE DE CRISTO MOUNTAINS	26 "		Ski Santa Fe measured 26 inches of snow. Two to 26 inches of snow fell elsewhere in the zone.
Heavy Snow	3/24/2024	EAST SLOPES SANGRE DE CRISTO MOUNTAINS	17.6 "		A CoCoRaHS station near Chacon measured 17.6 inches of snow. Three to 11 inches of snow fell elsewhere in the zone.
(A)		UPPER RIO GRANDE VALLEY	9.4 "		A CoCoRaHS station near San Cristobal measured 9.4 inches of snow. Five inches was reported in Taos.
High Wind	3/31/2024	CENTRAL HIGHLANDS	53	Gust	The Clines Corners ASOS observed a peak wind gust of 61 mph.
High Wind	3/31/2024	SOUTH CENTRAL MOUNTAINS	52	Gust	The Sierra Blanca ASOS observed a peak wind gust of 60 mph. The station also observed high sustained winds peaking at 49 mph during the time period.
High Wind		NORTHEAST HIGHLANDS	55	Gust	The Las Vegas ASOS observed a wind gust of 63 mph.
High Wind		UNION COUNTY	50	Gust	The Clayton ASOS observed a wind gust of 58 mph.
High Wind	3/31/2024	EASTERN SAN MIGUEL COUNTY	50	Gust	A wunderground weather station just south of Conchas Lake observed a wind gust of 58 mph.
High Wind		GUADALUPE COUNTY	56	Gust	The Ziamet station southeast of Vaughn observed a peak wind gust of 65 mph.
High Wind	3/31/2024	CHAVES COUNTY PLAINS	55	Gust	The Roswell ASOS observed a peak wind gust of 63 mph.

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- NCEI Climatological Rankings: <a href="https://www.ncdc.noaa.gov/cag/national/rankings">https://www.ncdc.noaa.gov/cag/national/rankings</a>
- PRISM Climate Data: <a href="http://www.prism.oregonstate.edu/">http://www.prism.oregonstate.edu/</a>
- NWS Local Climate Pages: <a href="https://w2.weather.gov/climate/index.php?wfo=abq">https://w2.weather.gov/climate/index.php?wfo=abq</a>
- NCEI Storm Data: <a href="https://www.ncdc.noaa.gov/stormevents/">https://www.ncdc.noaa.gov/stormevents/</a>
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