

Synopsis

March 2021 was wetter than normal in the northeast quarter of the state, with pockets of near to above normal precipitation in central New Mexico. The rest of the state was drier than normal. Temperatures were near to below normal statewide, except a little above normal in the southeast.

March was highlighted by two major storms, one on the 16th, the other March 23rd through 24th. They were very similar with widespread light to moderate snow and areas of heavy snow. Strong to high winds with some damage occurred with both storms. High winds slammed NM on the 14th.





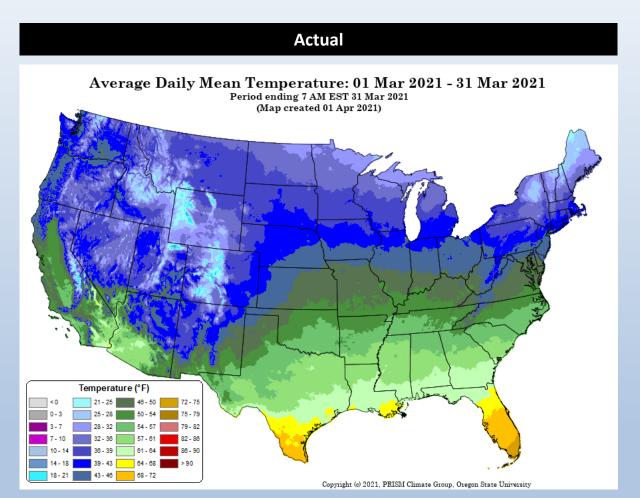


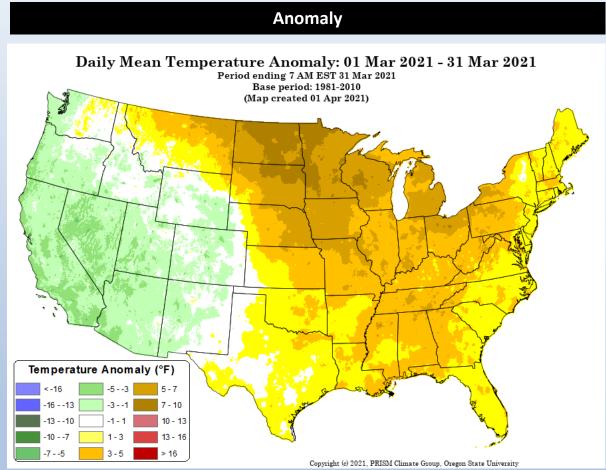
NE Albuquerque 3/24/21 © Mark Ronchetti via Twitter





State Temperatures





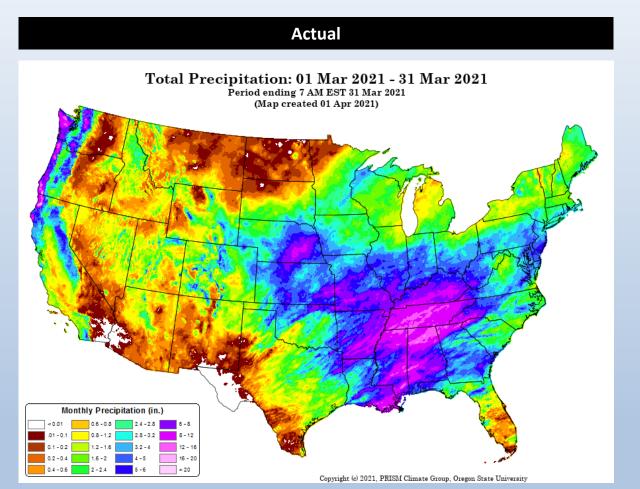
Temperatures were near to below normal statewide, except a little above normal in the southeast.

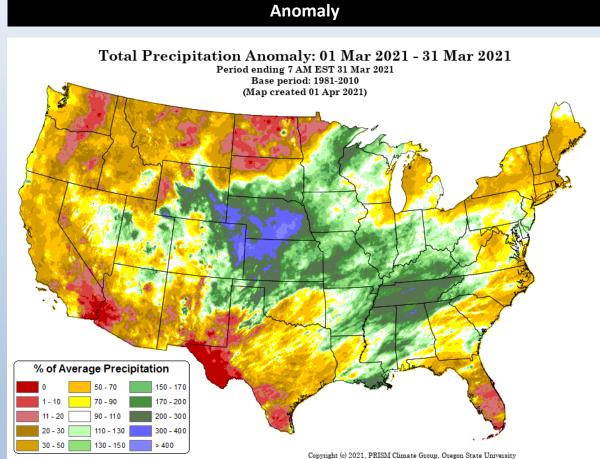






State Precipitation





March 2021 was wetter than normal in the northeast quarter of the state, with pockets of near to above normal precipitation in west-central New Mexico. The rest of the state was drier than normal. March averaged -0.52", which was 0.21" below normal. This ranks as the 52nd driest on record.



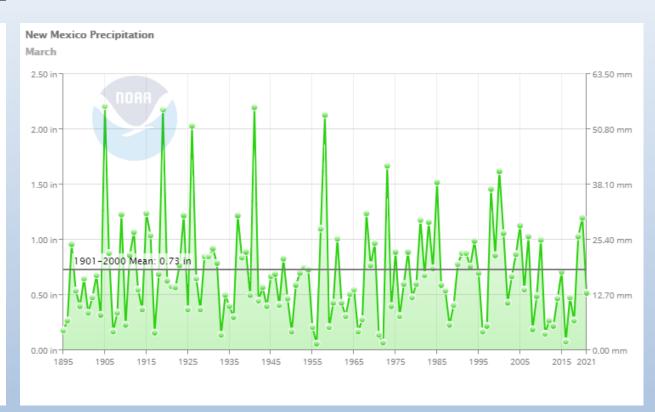




Temperature

New Mexico Average Temperature March 10.0°C 6.7°C 5.6°C 4.4°C -3.3°C 2005 2015 2021

Precipitation

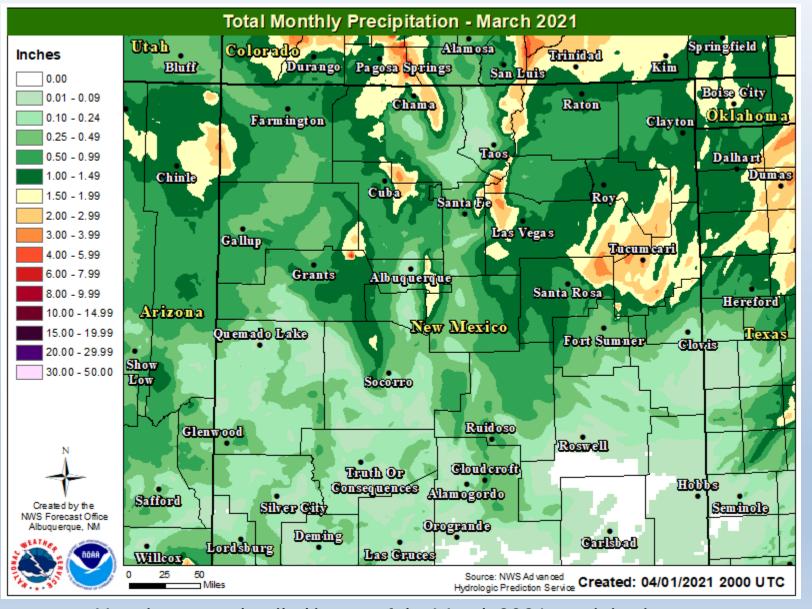


The average statewide temperature was 44.8°, which was 1.3° above the long-term normal of 43.5° (1901-2000). This ranked as the 77th warmest March on record.

The average statewide precipitation was 0.52", which was 0.21" below the long-term normal of 0.73" (1901-2000). This ranked as the 52nd driest March on record.





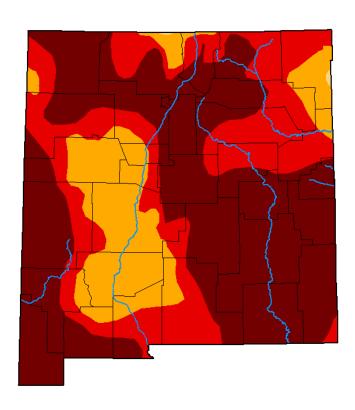


Here is a more detailed image of the March 2021 precipitation.



March 2 March 30

U.S. Drought Monitor
New Mexico



March 2, 2021 (Released Thursday, Mar. 4, 2021) Valid 7 a.m. EST

Drought Conditions (Percent Area)

| | None | D0-D4 | D1-D4 | D2-D4 | D3-D4 | D4 |
|---|-------|--------|--------|-------|-------|-------|
| Current | 0.00 | 100.00 | 100.00 | 99.91 | 82.18 | 54.15 |
| Last Week 02-23-2021 | 0.00 | 100.00 | 100.00 | 99.91 | 82.03 | 54.24 |
| 3 Month's Ago 12-01-2020 | 0.00 | 100.00 | 100.00 | 99.59 | 82.26 | 53.27 |
| Start of Calendar Year 12-29-2020 | 0.00 | 100.00 | 99.97 | 99.59 | 82.26 | 53.20 |
| Start of Water Year 09-29-2020 | 0.00 | 100.00 | 99.92 | 73.65 | 39.88 | 2.90 |
| One Year Ago 03-03-2020 | 44.24 | 55.76 | 28.52 | 11.40 | 0.00 | 0.00 |

None D2 Severe Drought
D0 Abnormally Dry D3 Extreme Drought
D1 Moderate Drought D4 Exceptional 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

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Brian Fuchs

National Drought Mitigation Center





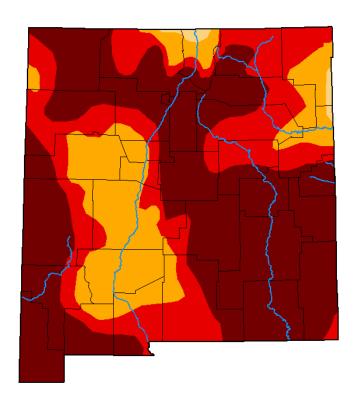




droughtmonitor.unl.edu

U.S. Drought Monitor

New Mexico



March 30, 2021

(Released Thursday, Apr. 1, 2021)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

| | None | D0 D4 | 01-04 | 02-04 | 3 | Ť |
|---|-------|--------|--------|-------|-------|-------|
| Current | 0.00 | 100.00 | 100.00 | 99.35 | 79.88 | 53.28 |
| Last Week 03-23-2021 | 0.00 | 100.00 | 100.00 | 99.68 | 80.21 | 53.38 |
| 3 Month's Ago 12-29-2020 | 0.00 | 100.00 | 99.97 | 99.59 | 82.26 | 53.20 |
| Start of Calendar Year 12-29-2020 | 0.00 | 100.00 | 99.97 | 99.59 | 82.26 | 53.20 |
| Start of Water Year 09-29-2020 | 0.00 | 100.00 | 99.92 | 73.65 | 39.88 | 2.90 |
| One Year Ago 03-31-2020 | 55.74 | 44.26 | 26.25 | 11.40 | 0.00 | 0.00 |

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 Pugh CPC/NOAA





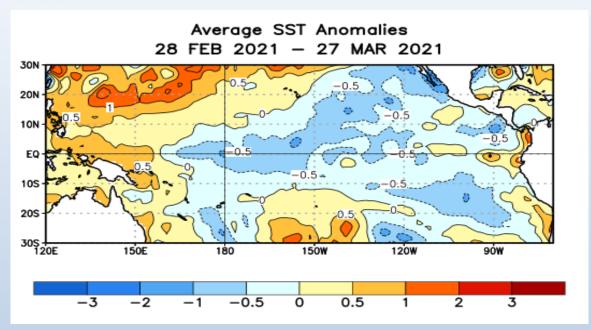




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Little change occurred to drought conditions through much of March 2021. There was a little improvement in the northern mountains and northeast. Extreme to exceptional drought covers just under 80% of the state, of which over 53% is exceptional.





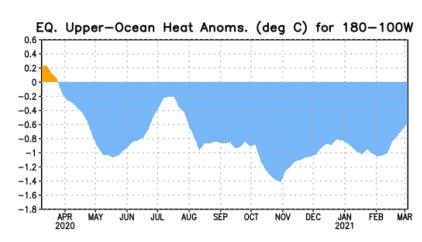


Figure 3. Area-averaged upper-ocean heat content anomaly (°C) in the equatorial Pacific (5°N-5°S, 180°-100°W). The heat content anomaly is computed as the departure from the 1991-2020 base period pentad means.

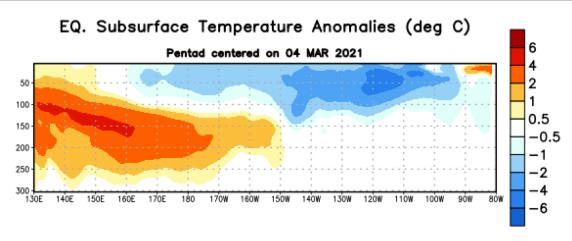
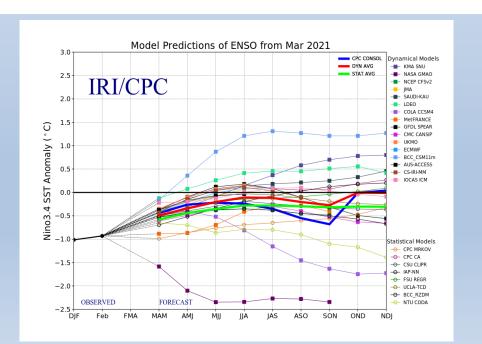


Figure 4. Depth-longitude section of equatorial Pacific upper-ocean (0-300m) temperature anomalies (°C) centered on the pentad of 4 March 2021. Anomalies are departures from the 1991-2020 base period pentad means.

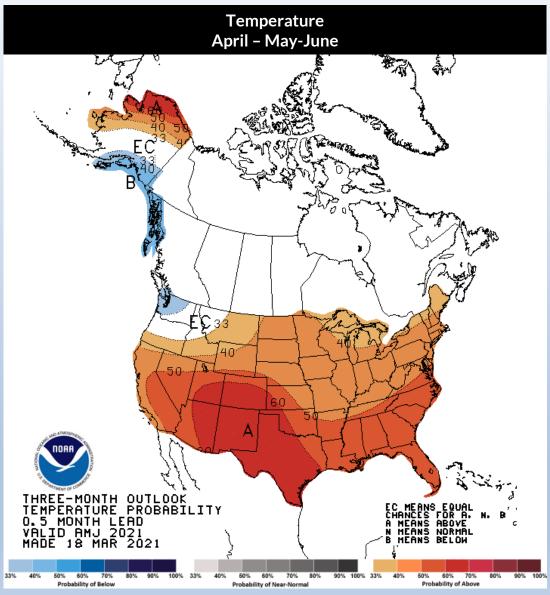


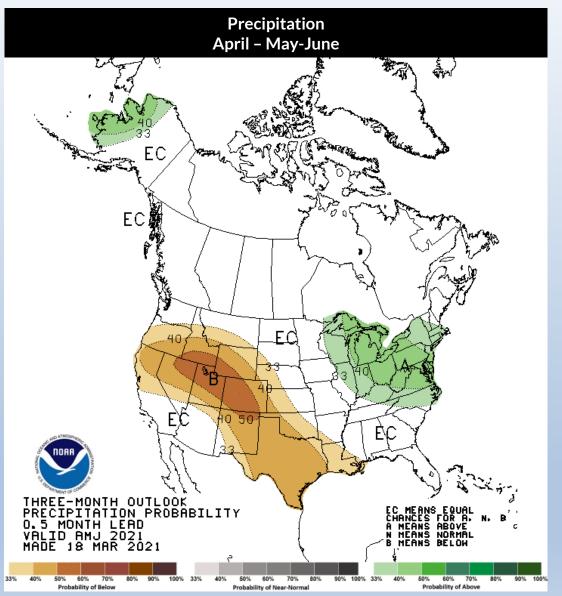
March 2021 Climate Summary

Temperature & Precipitation Outlook

Weather Forecast Office
Albuquerque, NM
Issued January 8, 2022 6:39 PM MDT





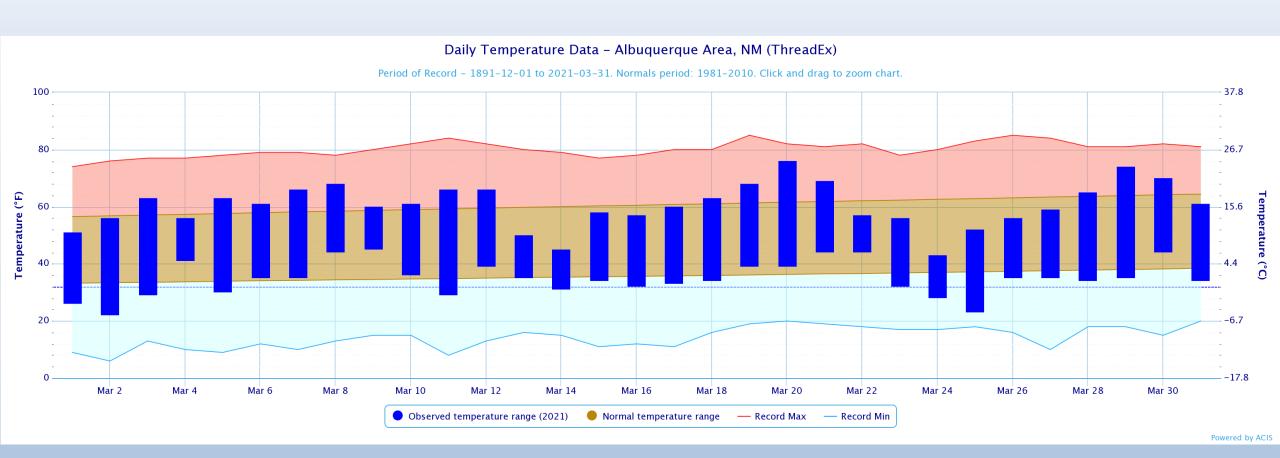


The three month climate outlook strongly favors above normal temperature probabilities while precipitation favors below normal probabilities, especially in the northeast. This outlook will favor persistent or worsening drought conditions over NM.

Weather Forecast Office
Albuquerque, NM
Issued January 8, 2022 6:39 PM MDT



Average Temperature = 47.6



The average temperature for Albuquerque was 47.6°, which was 0.5° below the normal of 48.1°. The average maximum temperature for the month was 60.5°. This was exactly the normal average maximum temperature of 60.5°. The average minimum temperature for the month was 34.7°. This was 1.0° below the normal average minimum temperature of 35.7°. This March's average temperature was the 73rd coldest March on record (1892-2021).

Weather Forecast Office Albuquerque, NM Issued January 8, 2022 6:39 PM MDT



Total Precipitation 0.12"







There was 0.12" of precipitation measured at the Sunport, compared to the normal of 0.57", or 0.45" below normal. This ranks as the 33rd driest March on record (1892-2021). Snowfall measured 0.5 inches, compared to the normal of 1.1 inches. This was tied for the 44th least snowiest March on record

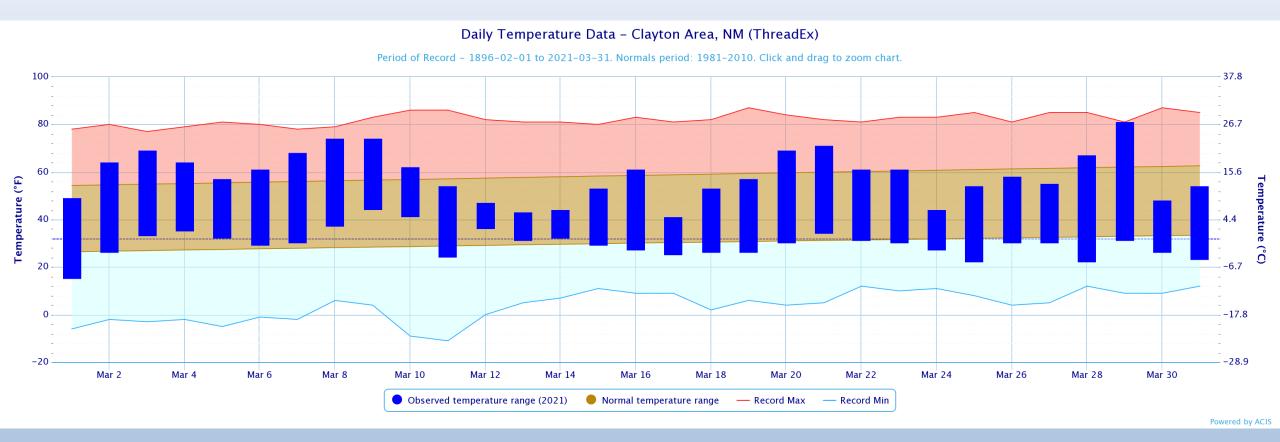






Average Temperature = 44.1



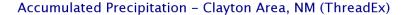


The average temperature for Clayton was 44.1°, which was 0.1° below the normal of 44.2°. The average maximum temperature for the month was 58.6°. This was 0.1° above the normal average maximum temperature of 58.5°. The average minimum temperature for the month was 29.5°. This was 0.5° below the normal average minimum temperature of 30.0°. March 2021 was the 58th coldest on record (1896-2021).



Clayton Precipitation

Total Precipitation 2.25"



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



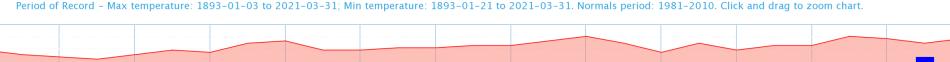
There was 2.25" of precipitation measured at Clayton, which was 1.30" above the normal of 0.95". This was for the 9th wettest March on record (1896-2021)! Snowfall measured 6.0 inches, while the normal is 6.3 inches. This was tied for the 73rd snowiest March on record.

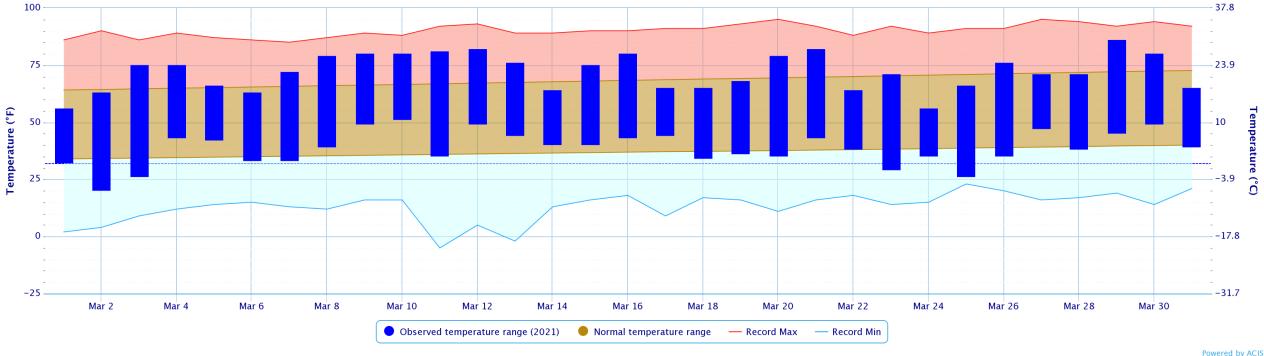
Weather Forecast Office Albuquerque, NM Issued January 8, 2022 6:39 PM MDT



Average Temperature = 55.2





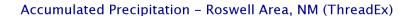


The average temperature for Roswell was 55.2°, which was 2.6° above the normal of 52.6°. The average maximum temperature for the month was 72.0°. This was 3.7° above the average maximum temperature of 68.3°. The average minimum temperature for the month was 38.5°. This was 1.6° above the normal average minimum temperature of 36.9°. This was the 20th warmest March on record (1893-2021).





Total Precipitation 0.05"







Powered by ACIS

There was 0.06" of precipitation measured at Roswell, compared to the normal of 0.51", or 0.45" below normal. This ranks as a tie for the 36th driest March on record (1892-2021). There was no snowfall, compared to the normal of 1.2 inches. There have been 38 March's with no snow.





| Event Type | Date | County/Zone Name | Magnitude | Туре | Event Narrative |
|-------------------|----------------|---------------------------------------|-----------|-----------|---|
| Heavy Snow | 3/13-3/14/2021 | Tusas Mountains including Chama | 13-17" | | SNOTELs. |
| Heavy Snow | 3/13-3/14/2021 | Jemez Mountains | 10-13" | | SNOTELs. |
| Heavy Snow | 3/13-3/14/2021 | Northern Sangre de Cristo Mountains | 20-27" | | SNOTELs, Taos Ski Valley, and Red River. |
| Heavy Snow | 3/13-3/14/2021 | Southern Sangre de Cristo Mountains | 15-20" | | SNOTELs and Santa Fe Ski Basin. |
| High Wind | 3/14/2021 | Sandia/Manzano Mountains and Edgewood | 42 kt | Sustained | Edgewood measured sustained winds of 40 to 48 mph. |
| High Wind | 3/14/2021 | Sandia/Manzano Mountains and Edgewood | 50 kt | Gust | Edgewood measured a peak wind gust of 58 mph. |
| High Wind | 3/14/2021 | Estancia Valley | 42 kt | Sustained | Estancia measured sustained winds of 40 to 48 mph. |
| High Wind | 3/14/2021 | Central Highlands | 35 kt | Sustained | Duran measured sustained winds of 40 mph. |
| High Wind | 3/14/2021 | South Central Mountains | 43 kt | Sustained | Capitan measured sustained winds of 40 to 50 mph. |
| High Wind | 3/14/2021 | South Central Mountains | 52 kt | Gust | Capitan measured a peak wind gust of 60 mph. |
| High Wind | 3/14/2021 | Northeast Highlands | 41 kt | Sustained | Los Montoyas measured sustained winds of 40 to 47 mph. |
| High Wind | 3/14/2021 | Guadalupe County | 52 kt | Gust | Vaughn measured a peak wind gust of 60 mph. |
| High Wind | 3/14/2021 | Eastern Lincoln County | 39 kt | Sustained | Corona measured sustained winds of 40 to 45 mph. |
| High Wind | 3/14/2021 | Eastern Lincoln County | 54 kt | Gust | Corona measured a peak wind gust of 62 mph. |
| High Wind | 3/14/2021 | Quay County | 38 kt | Sustained | Tucumcari measured sustained winds of 40 to 44 mph. |
| Hail | 3/13/2021 | Quay County | 1" | | Quarter size hail near Tucumcari. |
| Thunderstorm Wind | 3/13/2021 | Quay County | 51 kt | Gust | Endee measured a thunderstorm wind gust of 59 mph. |
| Heavy Snow | 3/16-3/17/2021 | Sandia/Manzano Mountains and Edgewood | 6-8" | | Sandia Park to Sedillo and Ponderosa. |
| Heavy Snow | 3/16-3/17/2021 | Johnson & Bartlett Mesa, Raton Pass | 3-64" | | Raton Pass. Severe travel and road closures. |
| Blizzard | 3/16-3/17/2021 | Union County | 4-5" | | Raton to Clayton. Severe travel and road closures. |
| Heavy Snow | 3/16-3/17/2021 | Guadalupe County | 9.1" | | Newkirk measured 9.1 inches of snow. |
| Heavy Snow | 3/16-3/17/2021 | Curry County | 6" | | Broadview reported 6 inches of snow. |
| High Wind | 3/16/2021 | South Central Mountains | 42 kt | Sustained | Ruidoso measured sustained wind speeds of 40 to 48 mph. |
| High Wind | 3/16/2021 | South Central Mountains | 55 kt | Gust | Ruidoso measured a peak wind gust of 63 mph. |

^{*}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/Zone Name | Magnitude | Туре | Event Narrative |
|----------------|----------------|--|-----------|-----------|--|
| High Wind | 3/16/2021 | Chaves County Plains | 40 kt | Sustained | Roswell measured sustained winds of 40 to 46 mph. |
| High Wind | 3/16/2021 | Chaves County Plains | 52 kt | Gust | Roswell measured a peak wind gust of 60 mph. |
| High Wind | 3/16/2021 | Eastern Lincoln County | 50 kt | Gust | Corona measured a peak wind speed of 58 mph. |
| High Wind | 3/16/2021 | Southwest Chaves County | 36 kt | Sustained | Dunken measured a 42 mph sustained wind. |
| High Wind | 3/16/2021 | Southwest Chaves County | 54 kt | Gust | Dunken measured a peak wind gust of 62 mph. |
| Hail | 3/22/2021 | Chaves County | 0.75" | | Penny size hail around Roswell. |
| High Wind | 3/24/2021 | Middle Rio Grande Valley / ABQ | 59 kt | Gust | ABQ metro. Tree damage and power outages from canyon wind. |
| Heavy Snow | 3/23-3/24/2021 | Northwest Highlands | 6" | | |
| Heavy Snow | 3/23-3/24/2021 | West Central Highlands | 7-14" | | Prewitt to Gallup and Grants. |
| Heavy Snow | 3/23-3/24/2021 | West Central Highlands | 10" | | San Fidel. |
| Heavy Snow | 3/23-3/24/2021 | Tusas Mountains including Chama | 7-10" | | SNOTELs. |
| Heavy Snow | 3/23-3/24/2021 | Jemez Mountains | 8-12" | | Ponderosa and Valles Caldera. |
| Heavy Snow | 3/23-3/24/2021 | Northern Sangre de Cristo Mountains | 8-17" | | SNOTELs, Taos Ski Valley, and Red River. |
| Heavy Snow | 3/23-3/24/2021 | Southern Sangre de Cristo Mountains | 8-18" | | SNOTELs and Santa Fe Ski Basin. |
| Heavy Snow | 3/23-3/24/2021 | East Slopes Sangre de Cristo Mountains | 8-16" | | Gascon to Angel Fire. |
| Heavy Snow | 3/23-3/24/2021 | Sandia/Manzano Mountains and Edgewood | 6-12" | | Sandia Park to Sedillo and Miera. |
| Winter Weather | 3/23-3/24/2021 | Estancia Valley | | | Moriarty. Severe travel and road closures. |
| Heavy Snow | 3/23-3/24/2021 | Central Highlands | | | Clines Corners. Severe travel and road closures. |
| Heavy Snow | 3/23-3/24/2021 | South Central Highlands | 8" | | Corona. |
| Heavy Snow | 3/23-3/24/2021 | Johnson & Bartlett Mesa, Raton Pass | 9" | | Vermejo Park. |
| Heavy Snow | 3/23-3/24/2021 | Far Northeast Highlands | 9-12" | | Wagon Mound. |
| Heavy Snow | 3/23-3/24/2021 | Northeast Highlands | 11.8" | | San Pablo. |
| Heavy Snow | 3/24/2021 | Guadalupe County | 5-8" | | Severe travel and road closures. |
| Heavy Snow | 3/24/2021 | Eastern Lincoln County | 8" | | Southeast of Corona. |

^{*}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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