



Synopsis

January 2021 was active, with a number of storms affecting New Mexico throughout the month. While temperatures were overall close to normal, precipitation was varied across the state. Southern and western areas tended to be below normal while the northeast was above normal.

Chacon-Luna Canyon January 25th – photo courtesy of Polly Mullen



Near Las Cruces February 3rd – photo courtesy of David DuBois



Gallup January 29th looking east – photo courtesy of NMDOT



January 2021 Climate Summary

State Temperatures

Weather Forecast Office
Albuquerque, NM
Issued January 8, 2022 6:01 PM MDT

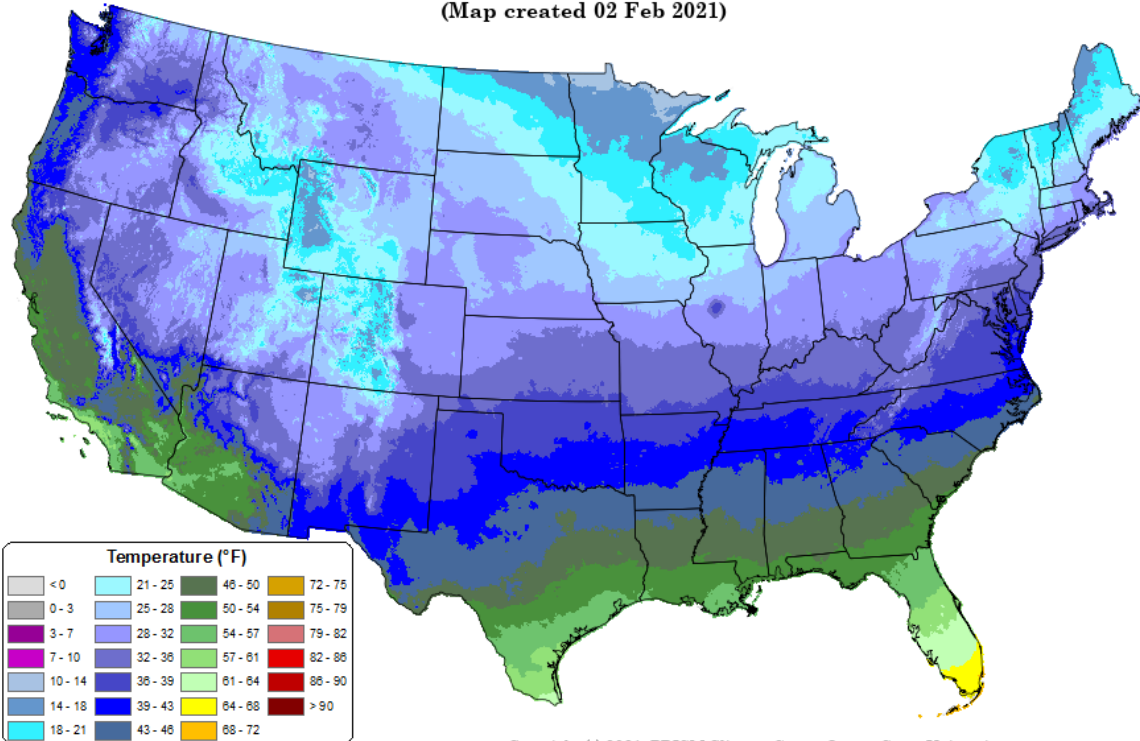


Actual

Average Daily Mean Temperature: Jan 2021

Period ending 7 AM EST 31 Jan 2021

(Map created 02 Feb 2021)



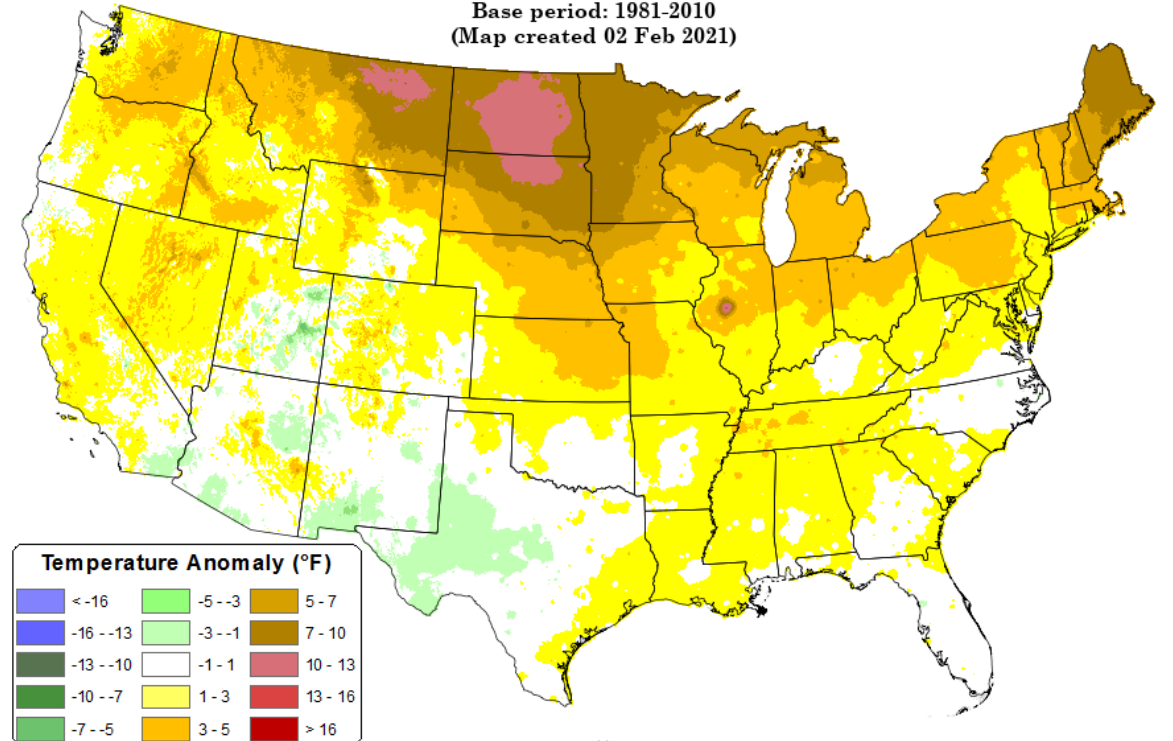
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Anomaly

Daily Mean Temperature Anomaly: Jan 2021

Period ending 7 AM EST 31 Jan 2021

Base period: 1981-2010
(Map created 02 Feb 2021)



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January 2021 Climate Summary

State Precipitation

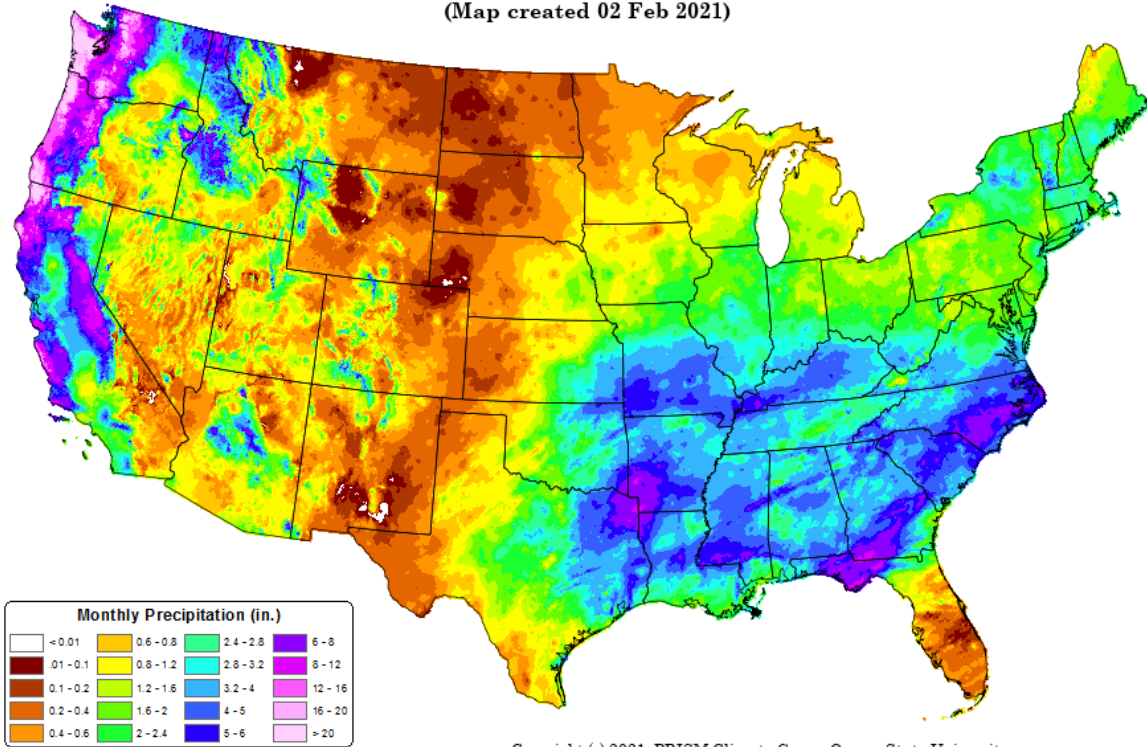
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Actual

Total Precipitation: Jan 2021

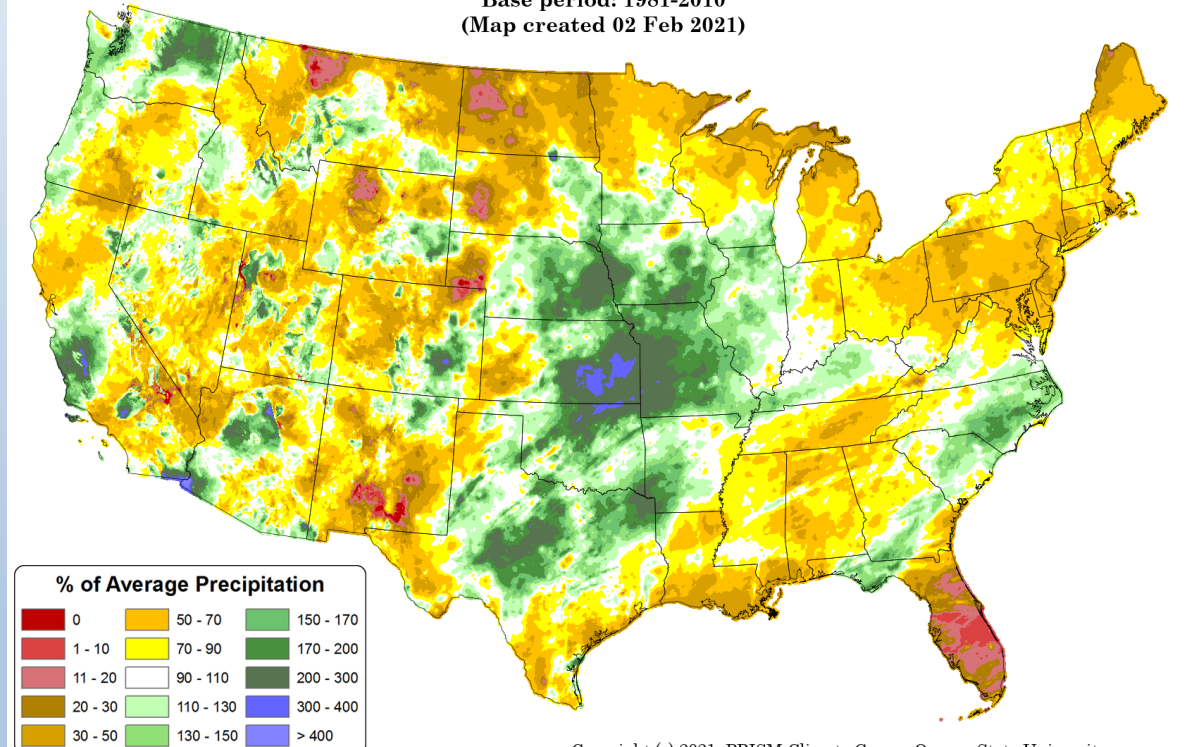
Period ending 31 Jan 2021
(Map created 02 Feb 2021)



Anomaly

Total Precipitation Anomaly: Jan 2021

Period ending 7 AM EST 31 Jan 2021
Base period: 1981-2010
(Map created 02 Feb 2021)



January 2021 Climate Summary

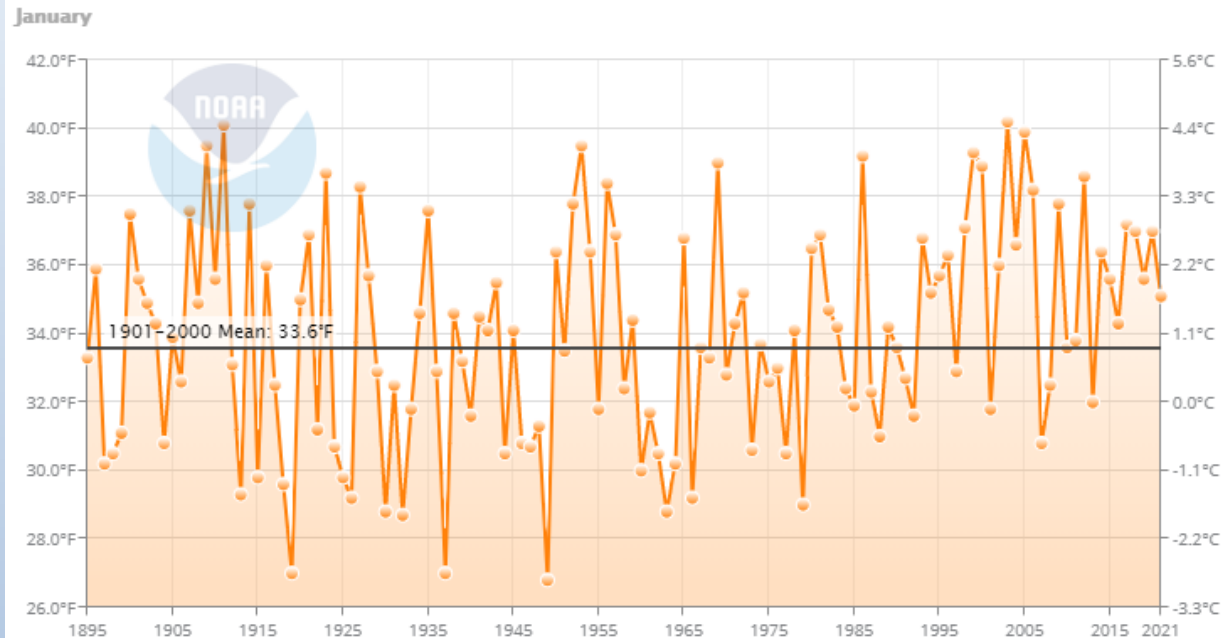
Statewide Temperature & Precipitation Trends

Weather Forecast Office
Albuquerque, NM
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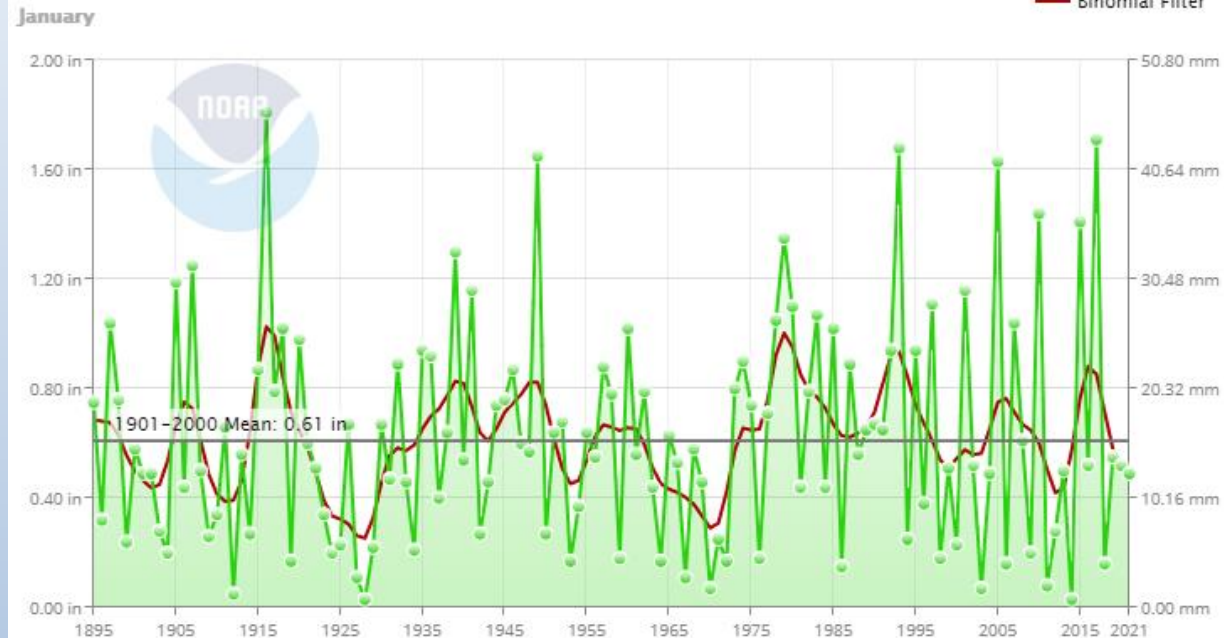
Temperature

New Mexico Average Temperature



Precipitation

New Mexico Precipitation

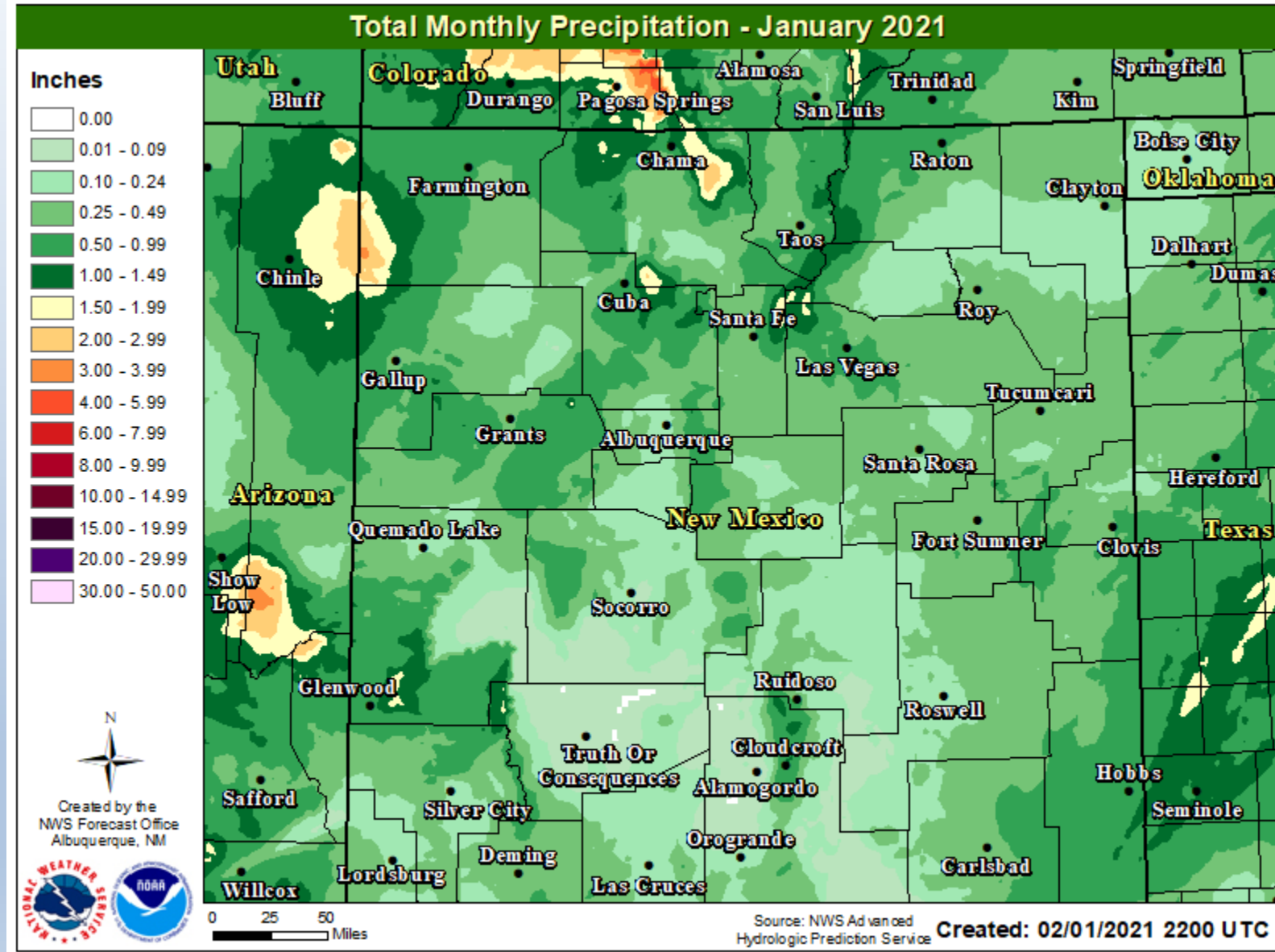


The January 2021 average statewide temperature was 35.1°, which was 1.5° above the long-term normal of 33.6° (1901-2000). This ranked as the 80th warmest January on record.

The January 2021 average statewide precipitation was 0.49", which was 0.12" below the long-term normal of 0.61" (1901-2000). This ranked as the 48th driest January on record.

January 2021 Climate Summary

Monthly Precipitation



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

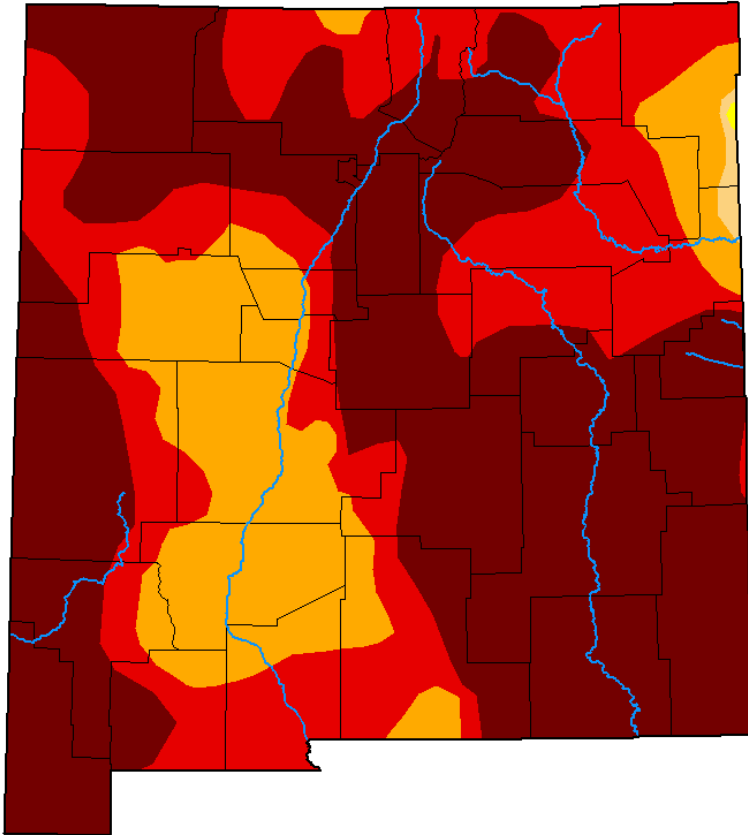
January 2021 Climate Summary

Drought

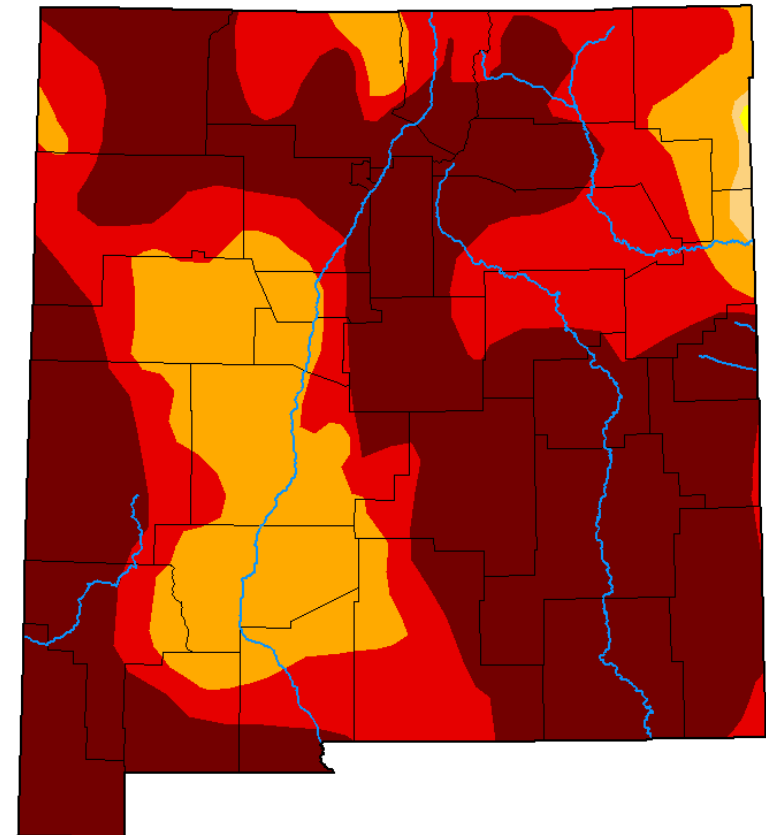
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January 5th



February 2nd

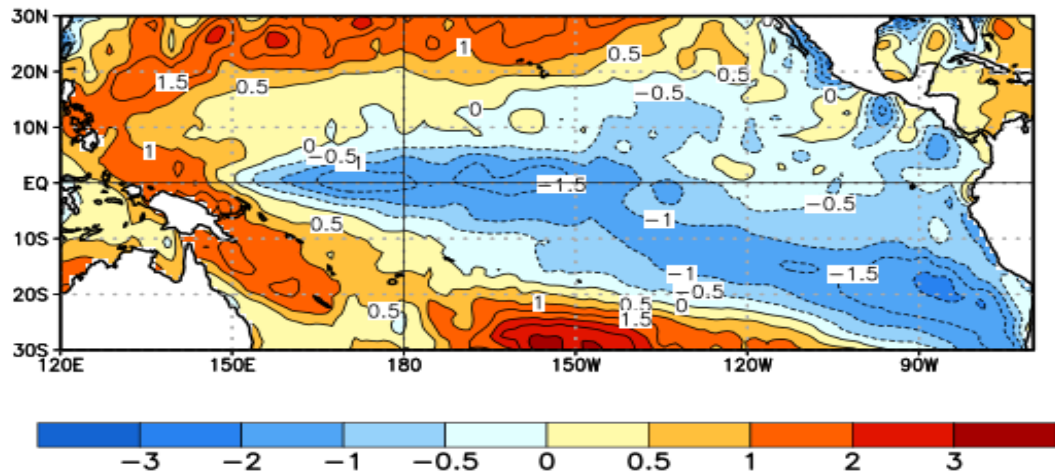


There was very little change in the New Mexico drought status in January.

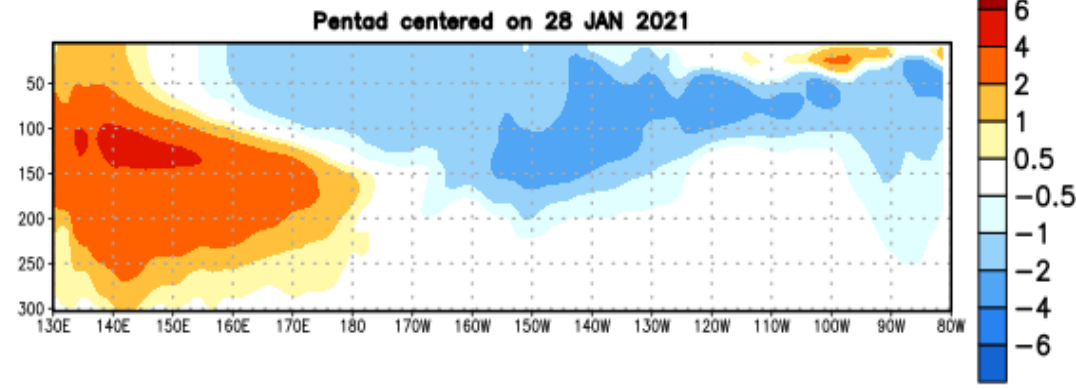
Week	None	D0-D4	D1-D4	D2-D4	D3-D4	D4	DSCI
2021-01-05	0.00	100.00	99.96	99.59	82.26	53.20	435
2021-02-02	0.00	100.00	99.96	99.57	81.83	54.03	435
Change	0.00	0.00	0.00	-0.02	-0.43	0.83	0



Average SST Anomalies
3 JAN 2021 – 30 JAN 2021



EQ. Subsurface Temperature Anomalies (deg C)



EQ. Upper-Ocean Heat Anoms. (deg C) for 180-100W

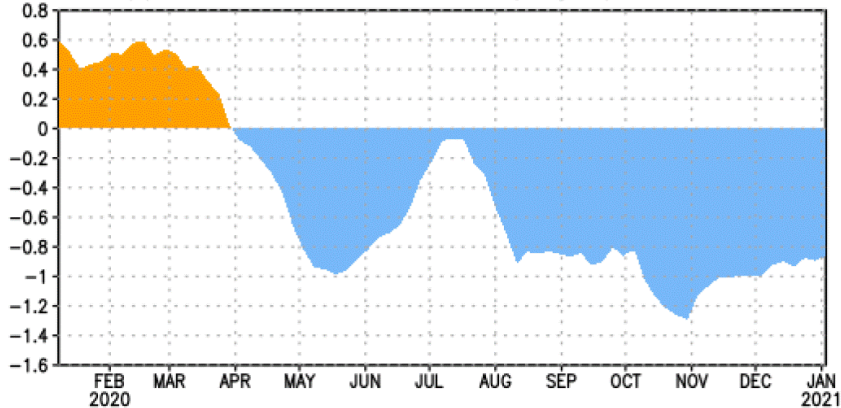
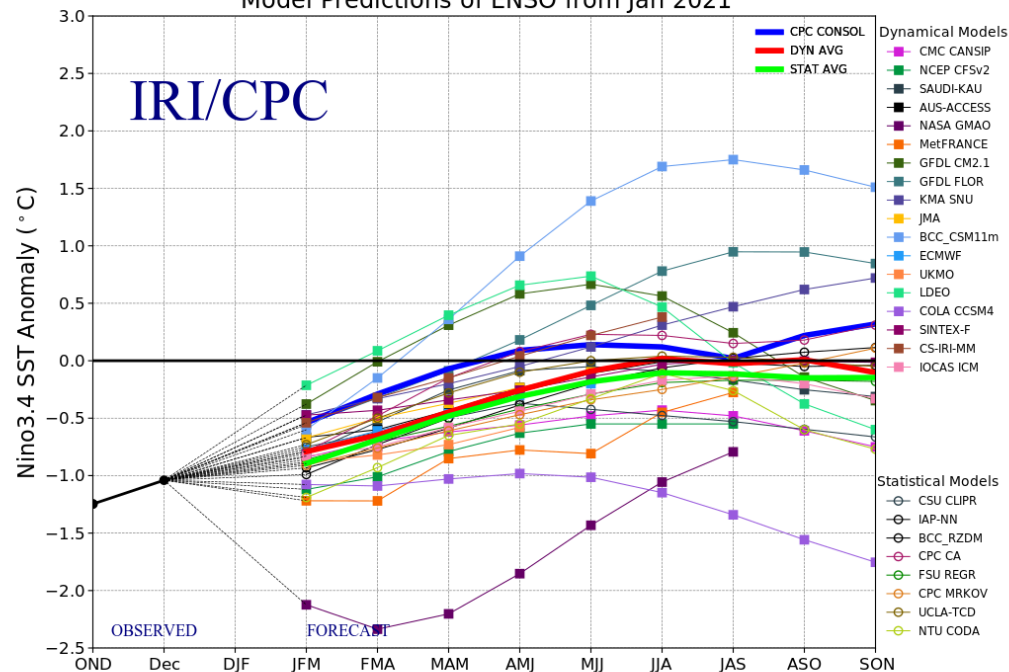


Figure 3. Area-averaged upper-ocean heat content anomaly ($^{\circ}\text{C}$) in the equatorial Pacific (5°N - 5°S , 180° - 100°W). The heat content anomaly is computed as the departure from the 1981-2010 base period pentad means.

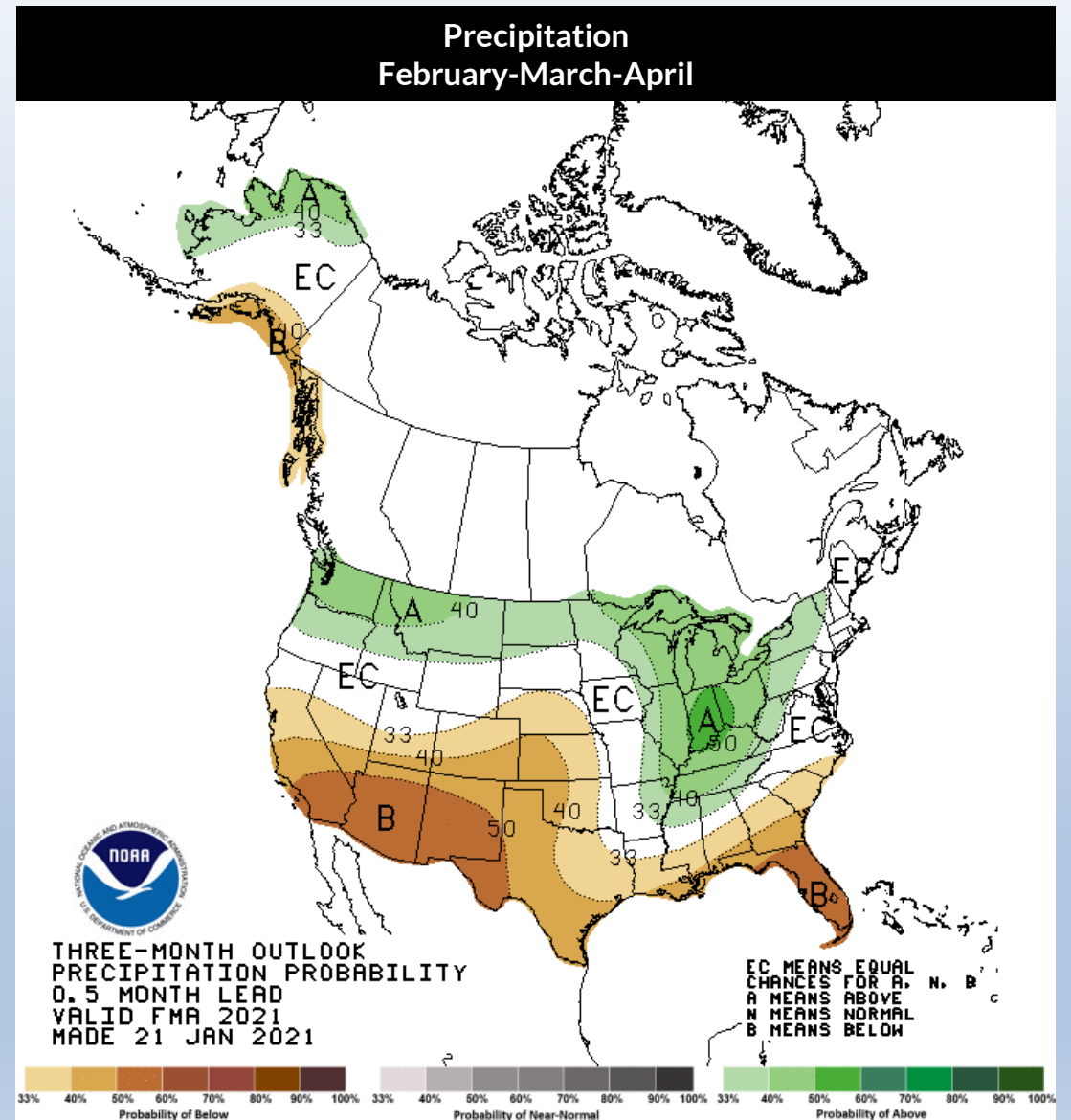
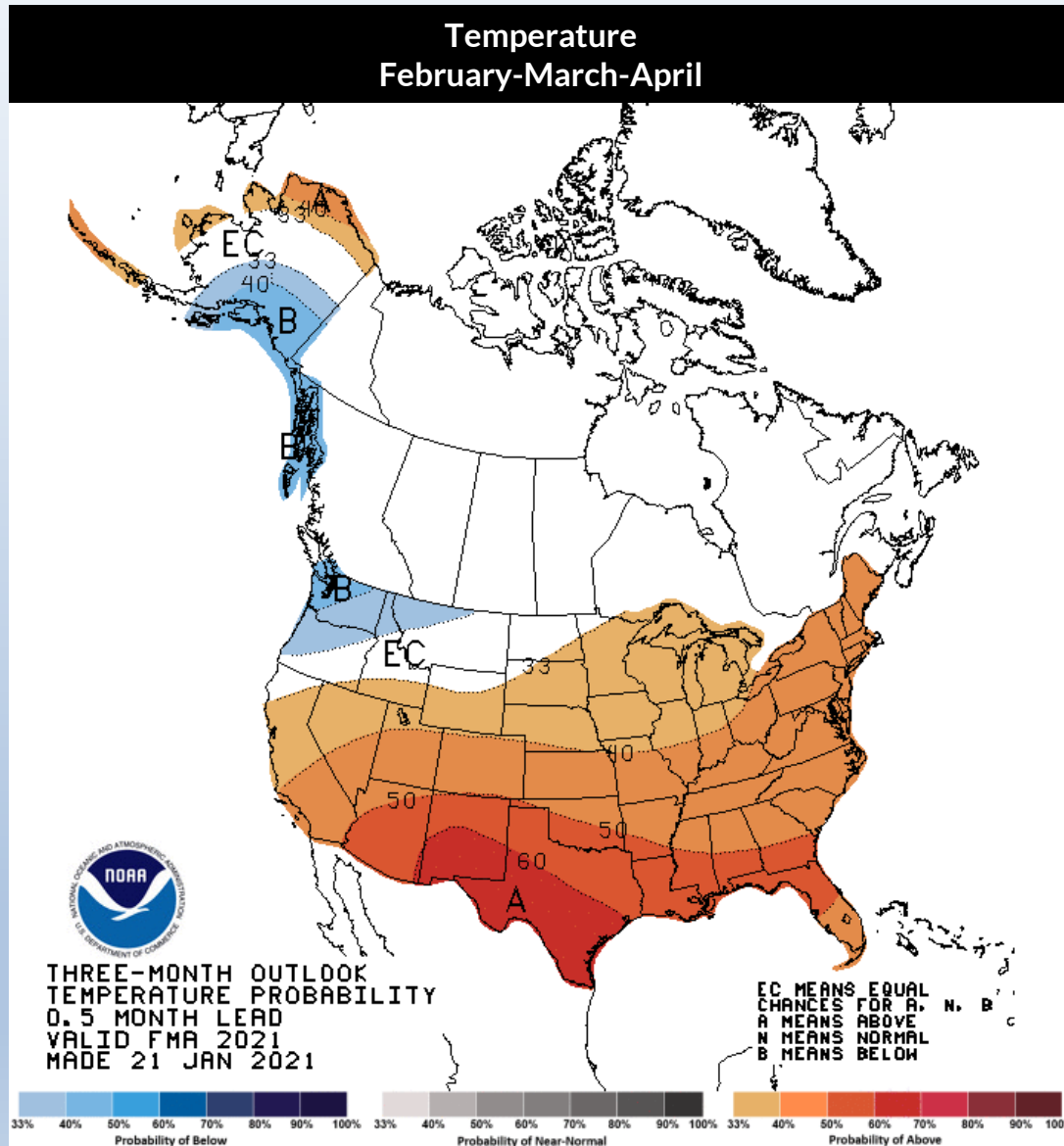
Model Predictions of ENSO from Jan 2021



January 2021 Climate Summary

Temperature & Precipitation Outlook

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Above normal temperatures and below normal precipitation continue to be the most likely weather scheme for the late winter season into the Spring season, especially southern New Mexico.

January 2021 Climate Summary

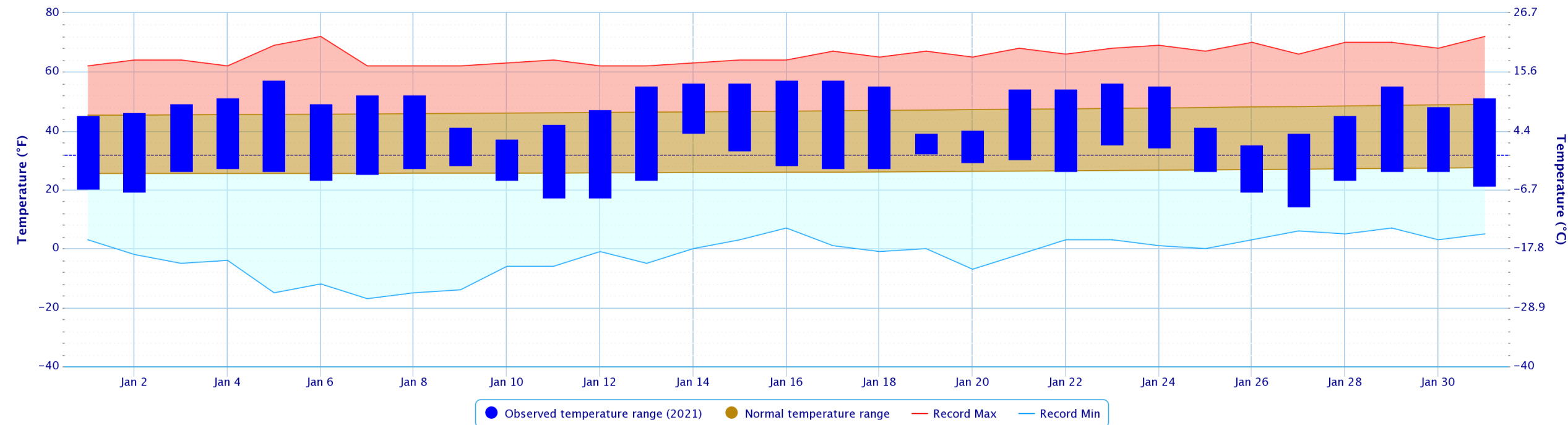
Albuquerque Sunport Temperatures

Weather Forecast Office
Albuquerque, NM
Issued January 8, 2022 6:01 PM MDT



Daily Temperature Data – Albuquerque Area, NM (ThreadEx)

Period of Record – 1891-12-01 to 2021-02-02. Normals period: 1981-2010. Click and drag to zoom chart.



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The average temperature for Albuquerque was 37.3°, which was 0.9° above the normal of 36.4°. The average maximum temperature for the month was 48.9°. This was 2.1° above the normal average maximum temperature of 46.8°. The average minimum temperature for the month was 25.7°. This was 0.4° below the normal average minimum temperature of 26.1°. This ranks as a tie for the 42nd warmest January.

January 2021 Climate Summary

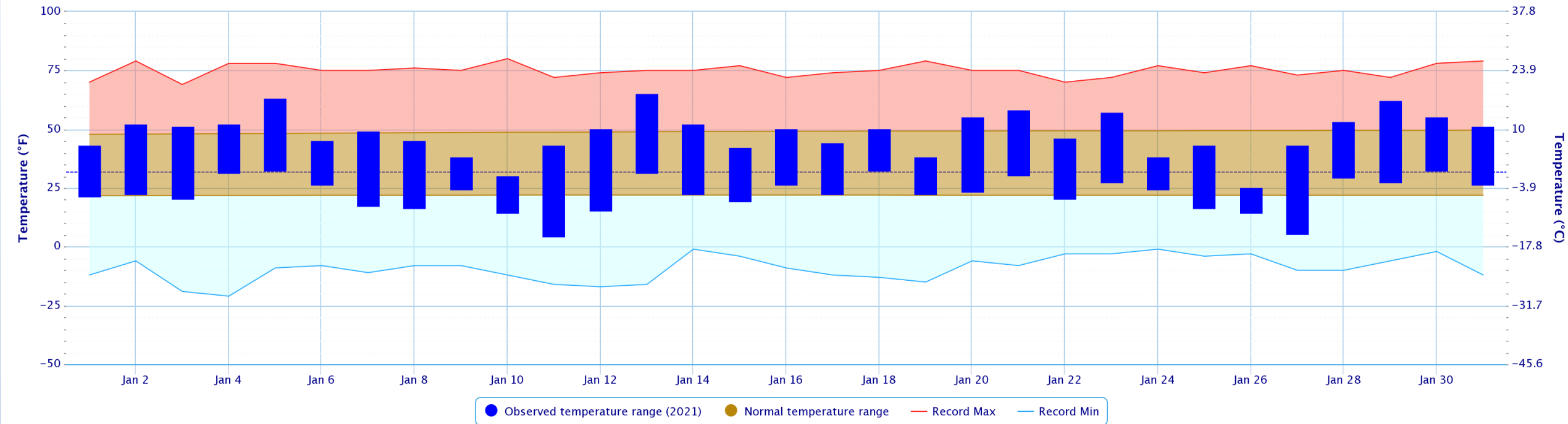
Clayton Temperatures

Weather Forecast Office
Albuquerque, NM
Issued January 8, 2022 6:01 PM MDT



Daily Temperature Data – Clayton Area, NM (ThreadEx)

Period of Record – 1896-02-01 to 2021-02-02. Normals period: 1981-2010. Click and drag to zoom chart.



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The 2021 average temperature for Clayton was 35.1°, which was 0.3° below the normal of 35.4°. The average maximum temperature for the month was 48.0°. This was 0.9° below the normal average maximum temperature of 48.9°. The average minimum temperature for the month was 22.2°. This was 0.9° above the normal average minimum temperature of 21.9°. This ranked as a tie for the 48th coolest January on record.

January 2021 Climate Summary

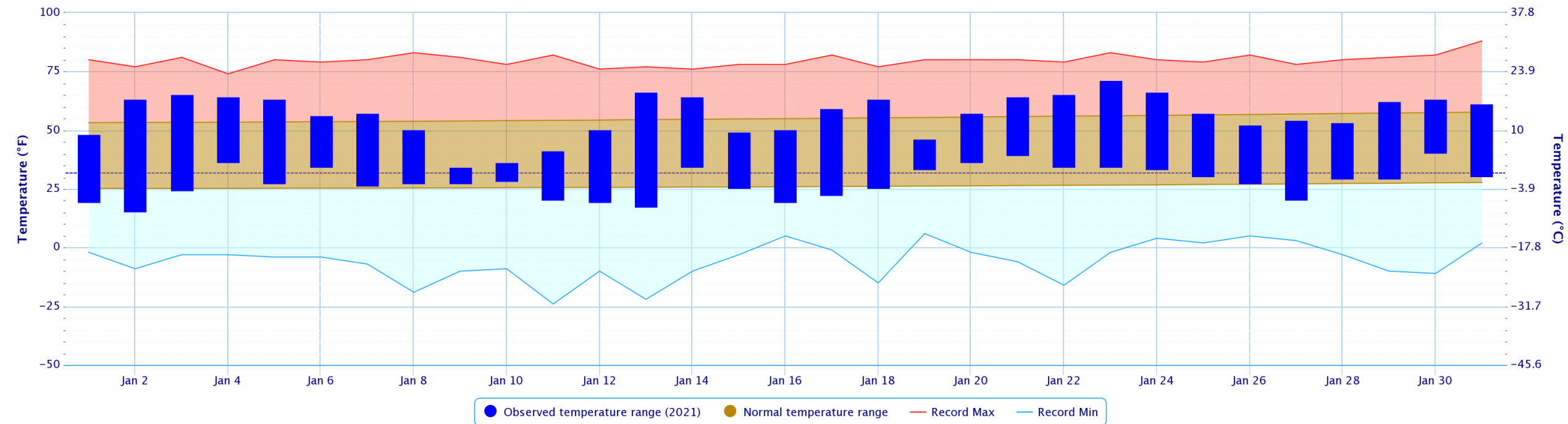
Roswell Temperatures

Weather Forecast Office
Albuquerque, NM
Issued January 8, 2022 6:01 PM MDT



Daily Temperature Data – Roswell Area, NM (ThreadEx)

Period of Record – Max temperature: 1893-01-03 to 2021-02-02; Min temperature: 1893-01-21 to 2021-02-02. Normals period: 1981-2010. Click and drag to zoom chart.



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The average temperature for Roswell was 42.0°, which was 1.4° above the normal of 40.6°. The average maximum temperature for the month was 56.4°. This was 1.3° above the average maximum temperature of 55.1°. The average minimum temperature for the month was 27.7°. This was 1.5° above the normal average minimum temperature of 26.1°. This ranks as a tie for the 40th warmest January on record.

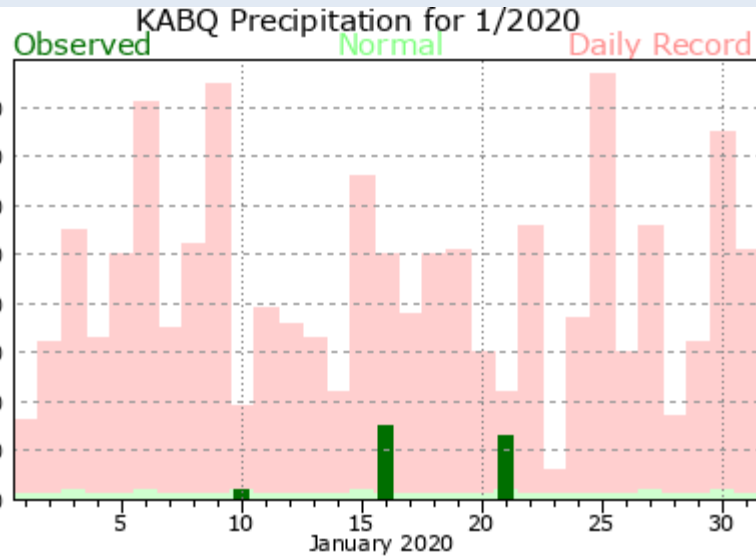
January 2021 Climate Summary

Precipitation - Climate Sites

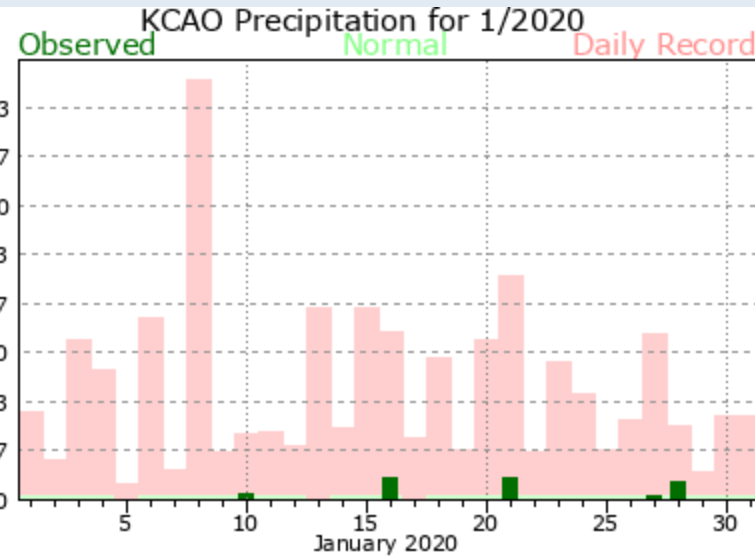
Weather Forecast Office
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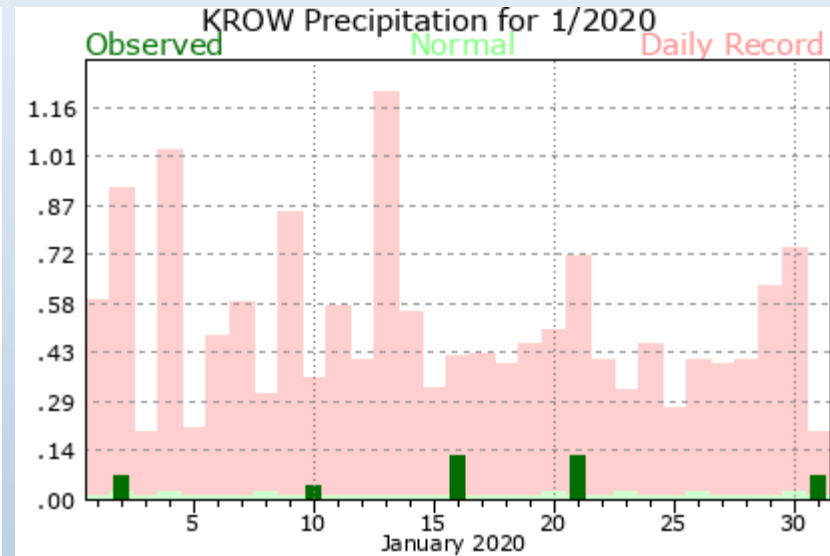
Albuquerque Sunport



Clayton



Roswell



There was 0.18" of precipitation measured at the Sunport, compared to the normal of 0.38", or 0.20" below normal. This ranks as the 48th driest January on record (1893-2021). There was 2.3" of snow, while normal is 2.1".

There was 0.30" of precipitation measured at Clayton, compared to the normal of 0.28", or 0.02" above normal. This ranks as the 48th wettest January on record (1893-2021). There was 3.2" of snow, while normal is 5.1".

There was a 0.08" of precipitation measured at Roswell, compared to the normal of 0.38", or 0.30" below normal. This ranks as the 36th driest January on record (1893-2021). There was 0.8" of snow, while normal is 3.2".

January 2021 Climate Summary

Severe Weather*








Weather Forecast Office
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Event Type	Date	County/Zone Name	Magnitude	Type	Event Narrative
High Wind	1/2/2021	Central Highlands	54 kt	Gust	Clines Corners reported a high wind gust to 62 mph.
Winter Storm	1/9-1/10/2021	Guadalupe County		2-5"	Severe travel conditions within Guadalupe County.
Winter Storm	1/9-1/10/2021	Guadalupe County		3-6"	Socorro to Magdalena and Datil.
High Wind	1/14/2021	Sandia/Manzano Mountains	55 kt	Gust	Peak wind gusts near 60 mph in Edgewood toppled a horse barn.
Heavy Snow	1/18-1/19/2021	Far Northwest Highlands		9.4"	Aztec.
Heavy Snow	1/18-1/19/2021	Tusas Mountain & Chama		12-14"	East of Chama.
Heavy Snow	1/18-1/19/2021	Jemez Mountains		13"	Pajarito ski area.
Heavy Snow	1/18-1/19/2021	Northern Sangre de Cristo Mountains		8-13"	Red River area.
Heavy Snow	1/18-1/19/2021	East Slopes Sangre de Cristo Mountains		12"	Black Lake area.
Heavy Snow	1/18-1/19/2021	Far Northeast Highlands		7"	Philmont Scout Ranch.
Heavy Snow	1/18-1/19/2021	Northeast Highlands		9-13"	Las Vegas area.
Winter Weather	1/25-1/26//2021	Middle RGV/ABQ Metro Area		1"	An intense snow squall slammed the ABQ metro.
Heavy Snow	1/24-1/26/2021	Southwest Mountains		10-16"	Mogollon Rim area.
Heavy Snow	1/25-1/26//2021	San Francisco River Valley		4-5"	Alma.
Heavy Snow	1/24-1/26/2021	South Central Mountains		19"	Sierra Blanca.
Winter Weather	1/23-1/26/2021	Tusas Mountain & Chama		4-8"	East of Chama.
Winter Weather	1/24-1/26/2021	Jemez Mountains		4-8"	Valles Caldera area.
Winter Weather	1/24-1/26/2021	Northern Sangre de Cristo Mountains		6-9"	Red River and Taos Ski Valley.
Winter Weather	1/24-1/26/2021	Southern Sangre de Cristo Mountains		5-8"	East of Santa Fe.
Winter Weather	1/24-1/26/2021	East Slopes Sangre de Cristo Mountains		4-9"	Angel Fire area.
High Wind	1/30/2021	Central Highlands	54 kt	Gust	Clines Corners reported a peak wind gust up to 62 mph.
High Wind	1/30/2021	South Central Mountains	38 kt	Sustained	Sustained winds reached at least 40 mph for several hours around Ruidoso.
High Wind	1/30/2021	Union County	53 kt	Gust	Clayton reported a peak wind gust up to 61 mph.
High Wind	1/30/2021	Guadalupe County	51 kt	Gust	Peak wind gust up to 58 mph.
High Wind	1/30/2021	Quay County	50 kt	Gust	Tucumcari reported a peak wind gust up to 58 mph.
High Wind	1/30/2021	Curry County	43 kt	Sustained	Cannon AFB reported a peak wind gust to 58 mph.
High Wind	1/30/2021	Roosevelt County	36 kt	Sustained	Melrose Range recorded sustained winds of 41 mph.
High Wind	1/30/2021	De Baca County	55 kt	Gust	A 63 mph wind gust was measured in Fort Sumner.
High Wind	1/30/2021	Eastern Lincoln County	36 kt	Sustained	Sustained winds near 40 mph were measured in eastern Lincoln County.
High Wind	1/30/2021	Sandia/Manzano Mountains	56 kt	Gust	Sandia Park measured a peak wind gust of 65 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/>



-  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
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