



Synopsis

July 2021 was wet. How wet? Well, much of central and parts of southeast New Mexico received 300 to 500 percent of their normal July rain! The rest of the state was mostly above normal, with near normal in parts of the northwest and southwest. No place was significantly below normal. Roswell kept up it's hope for a record rainfall in 2021, totaling 2.65 inches for July, or 0.88 inches above normal. It's the 5th wettest year through the first 7 months. The yearly total of 13.72 inches is already well above the normal annual rainfall of 11.63. Temperatures were not as extreme as the precipitation, with above normal temperatures in the northwest and below normal in the southeast. In between was a band of near normal temperatures (see slides below). **Note: The new 1991-2020 normals are used in this summary.**



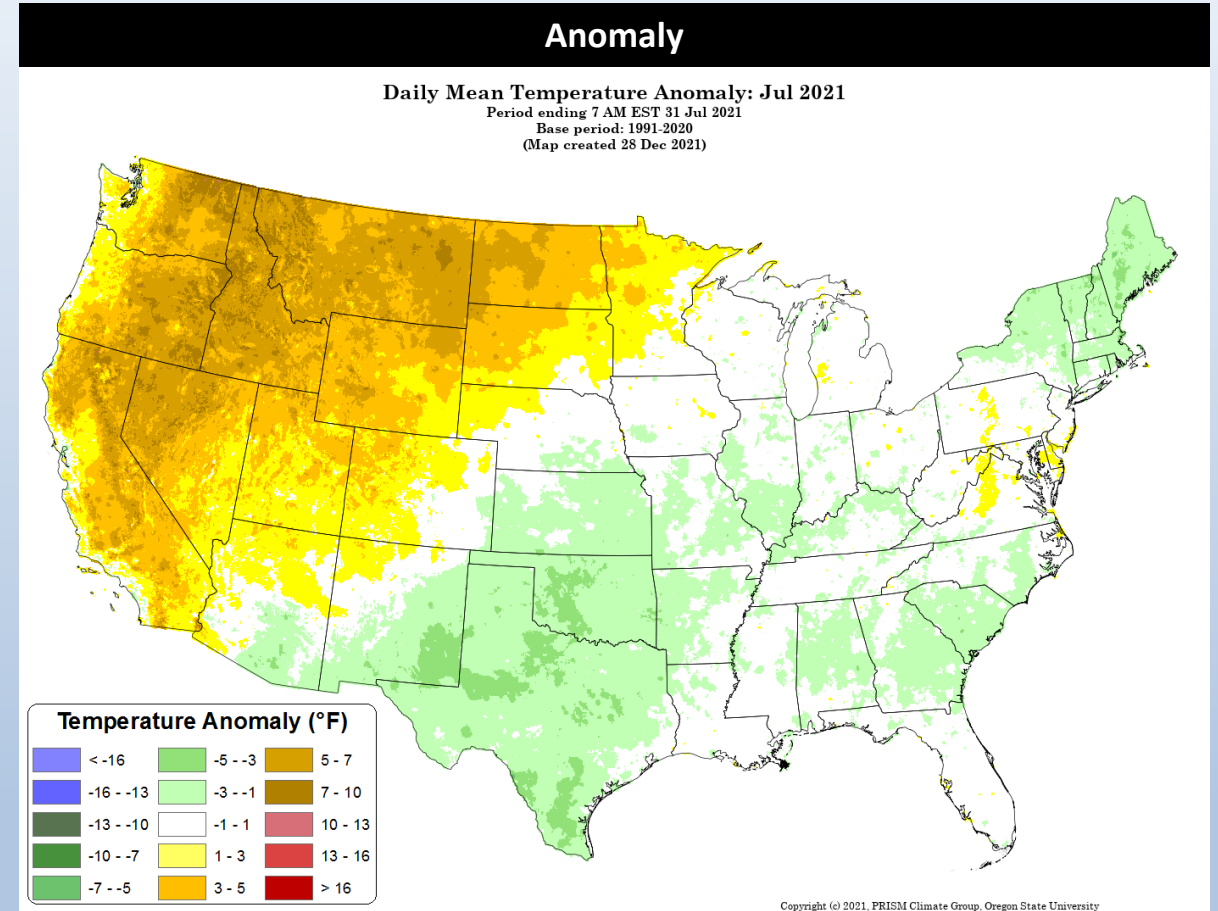
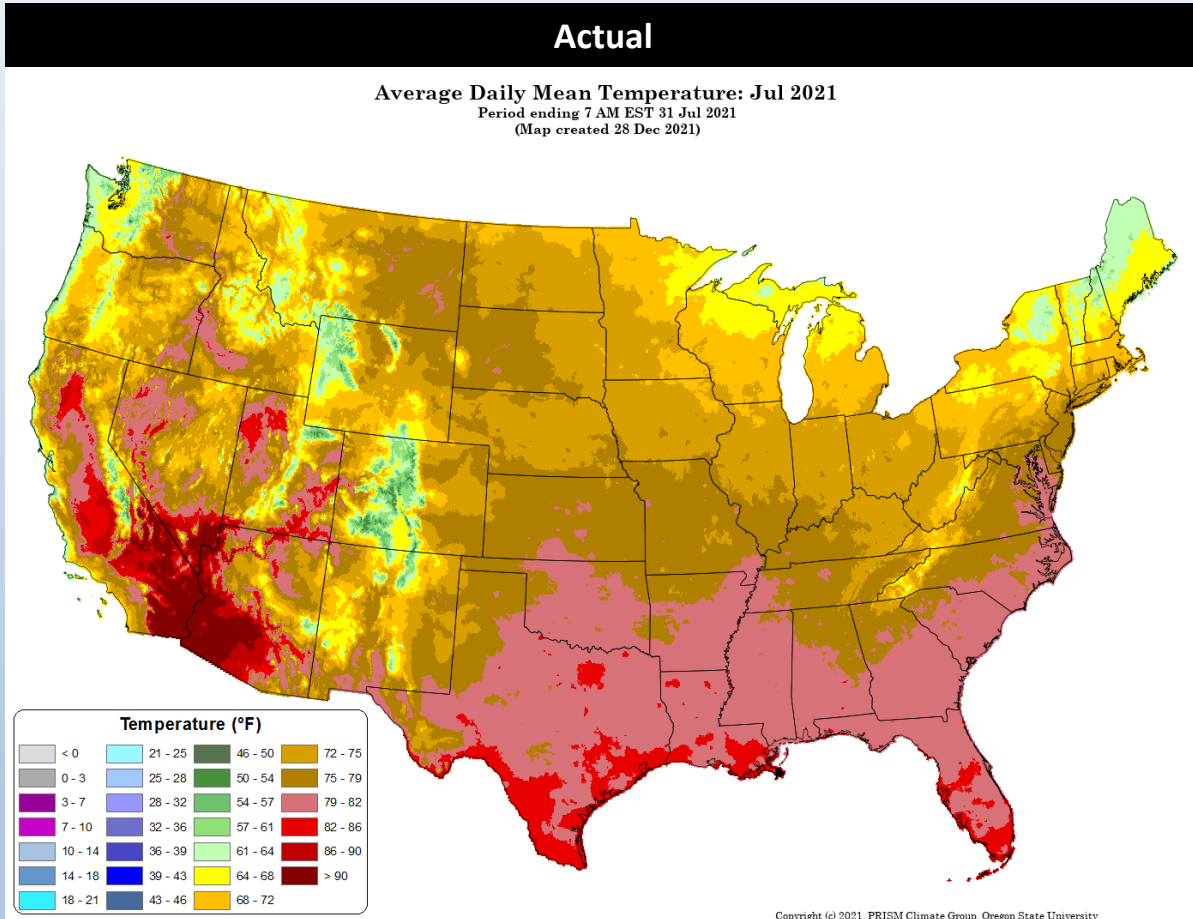
Belen Canal Breach flash flooding – July 6, 2021
©KOB4-TV (twitter)



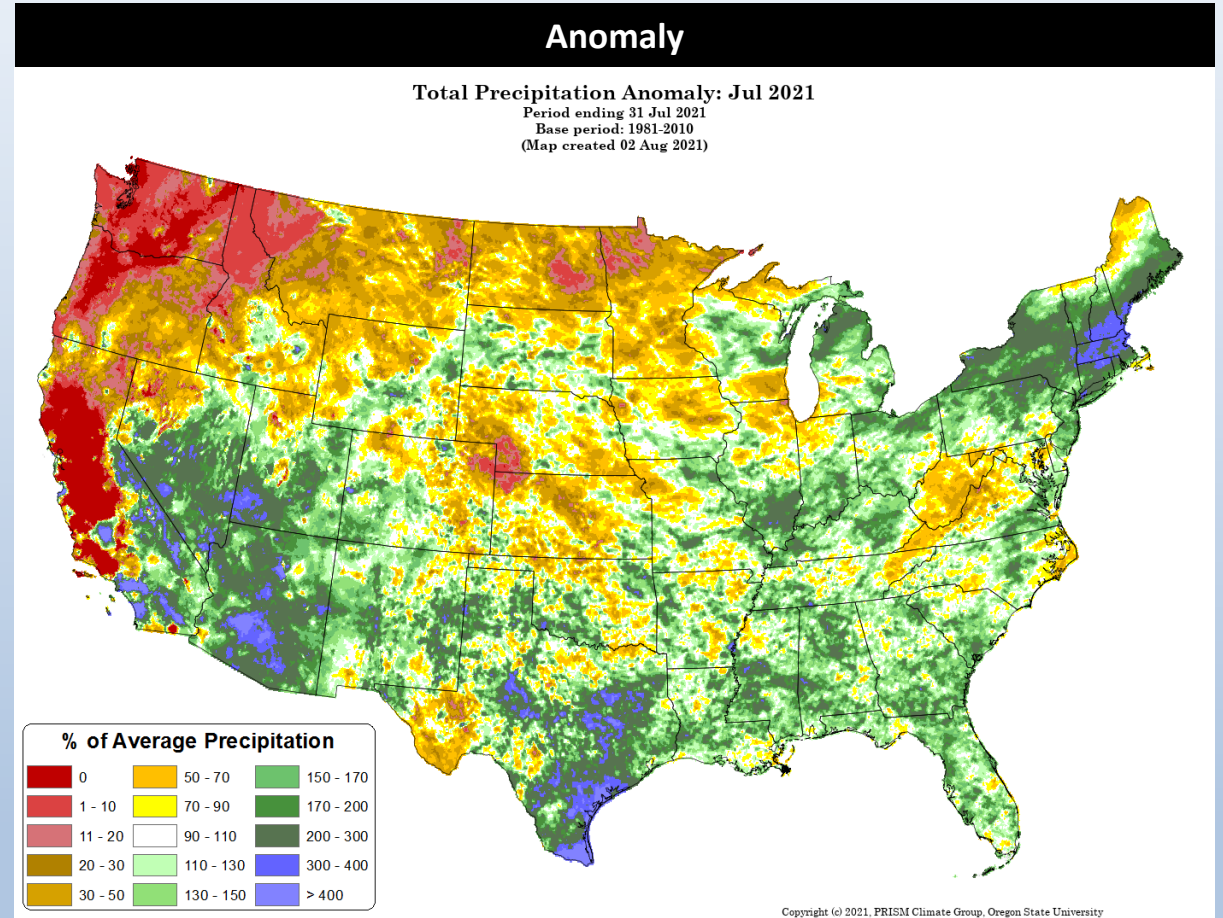
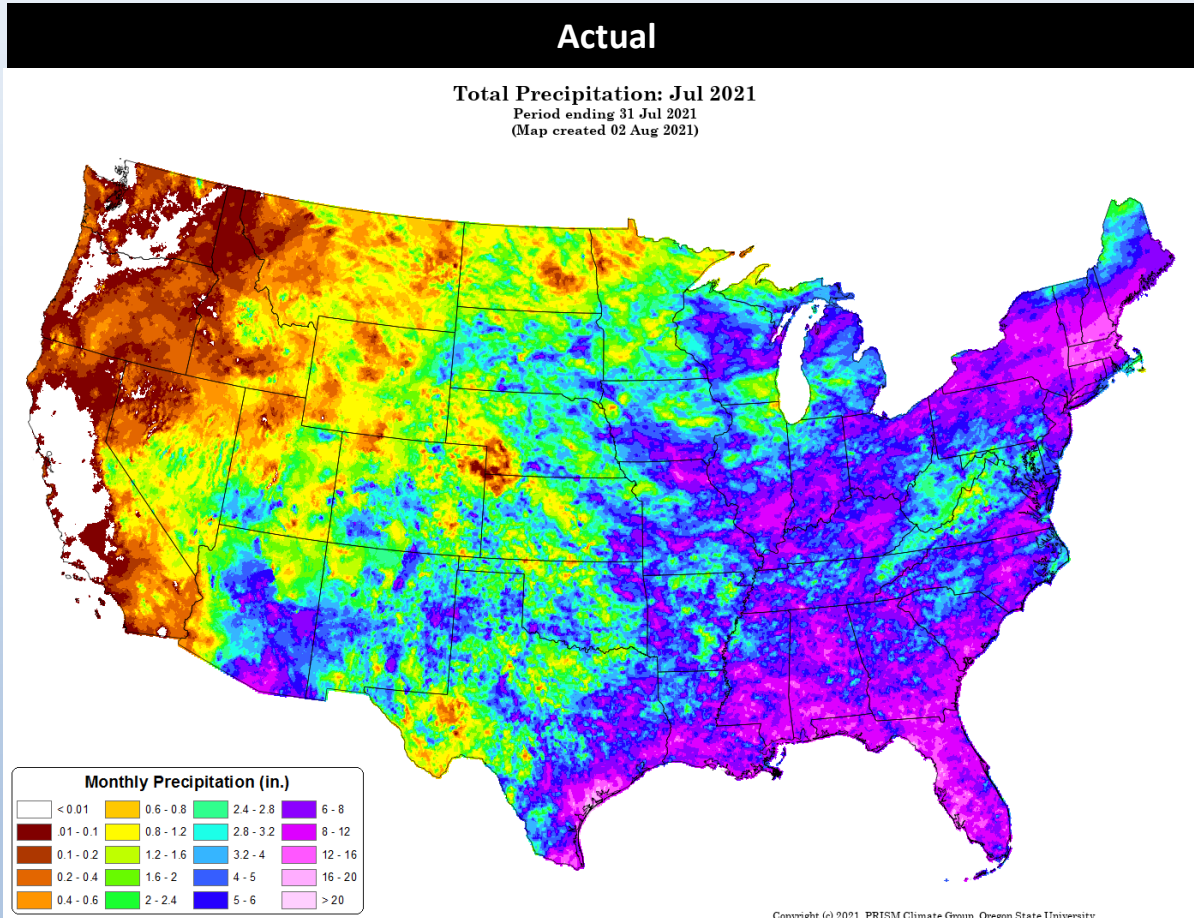
Tucumcari Metro Park flash flooding – July 6, 2021
©Chad Casey (twitter)



Upper Canyon above Ruidoso – July 6, 2021 ©Ruidoso PD



Temperatures were above normal in the northwest and below normal in the southeast. In between was an area of near normal temperatures.
(note the data at Santa Rosa is bad)



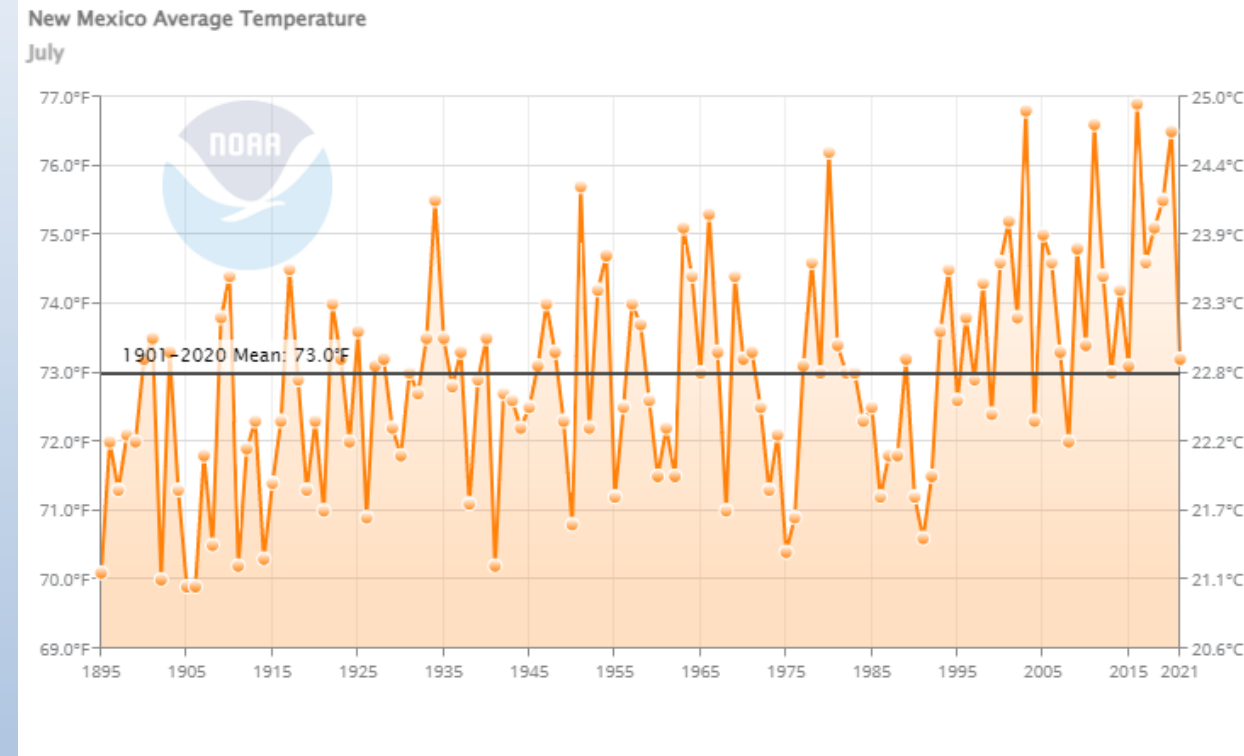
Precipitation ranged from below normal in the far northeast and far west, to way above normal in portions of southern New Mexico – especially in the southeast where precipitation was 300 to 400 percent of normal!

July 2021 Climate Summary

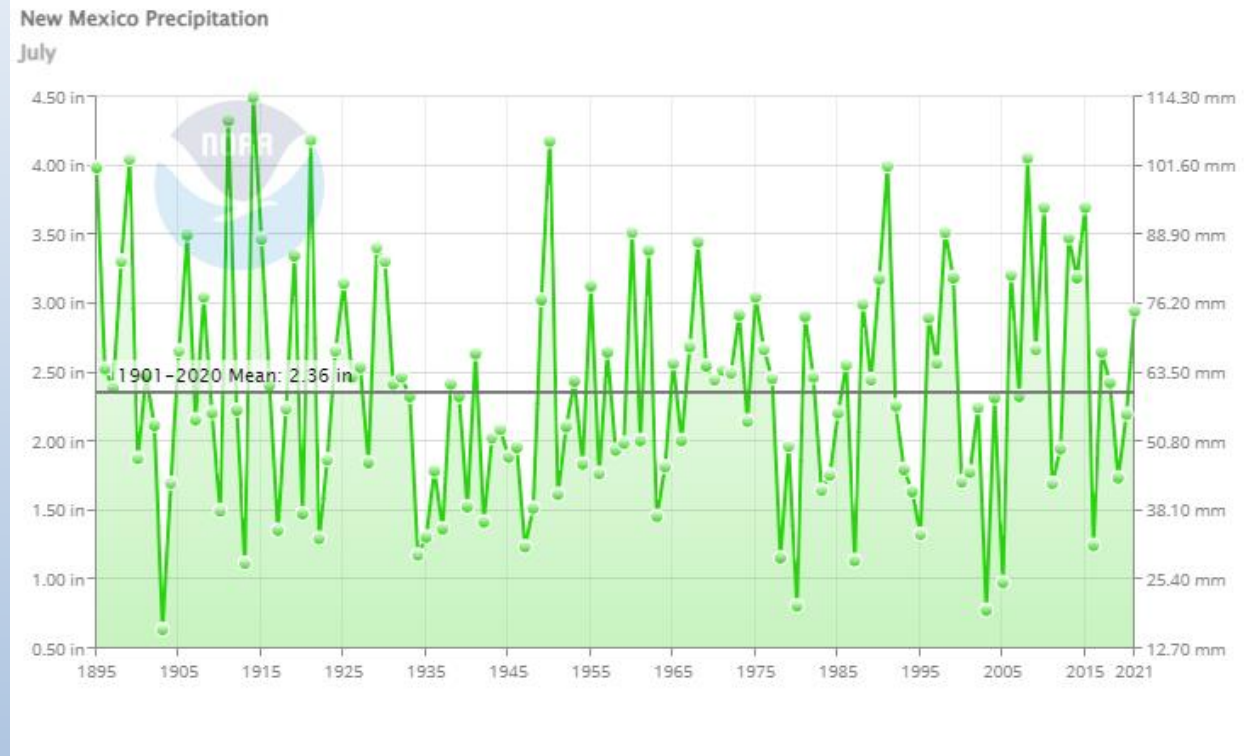
Statewide Temperature & Precipitation Trends



Temperature



Precipitation

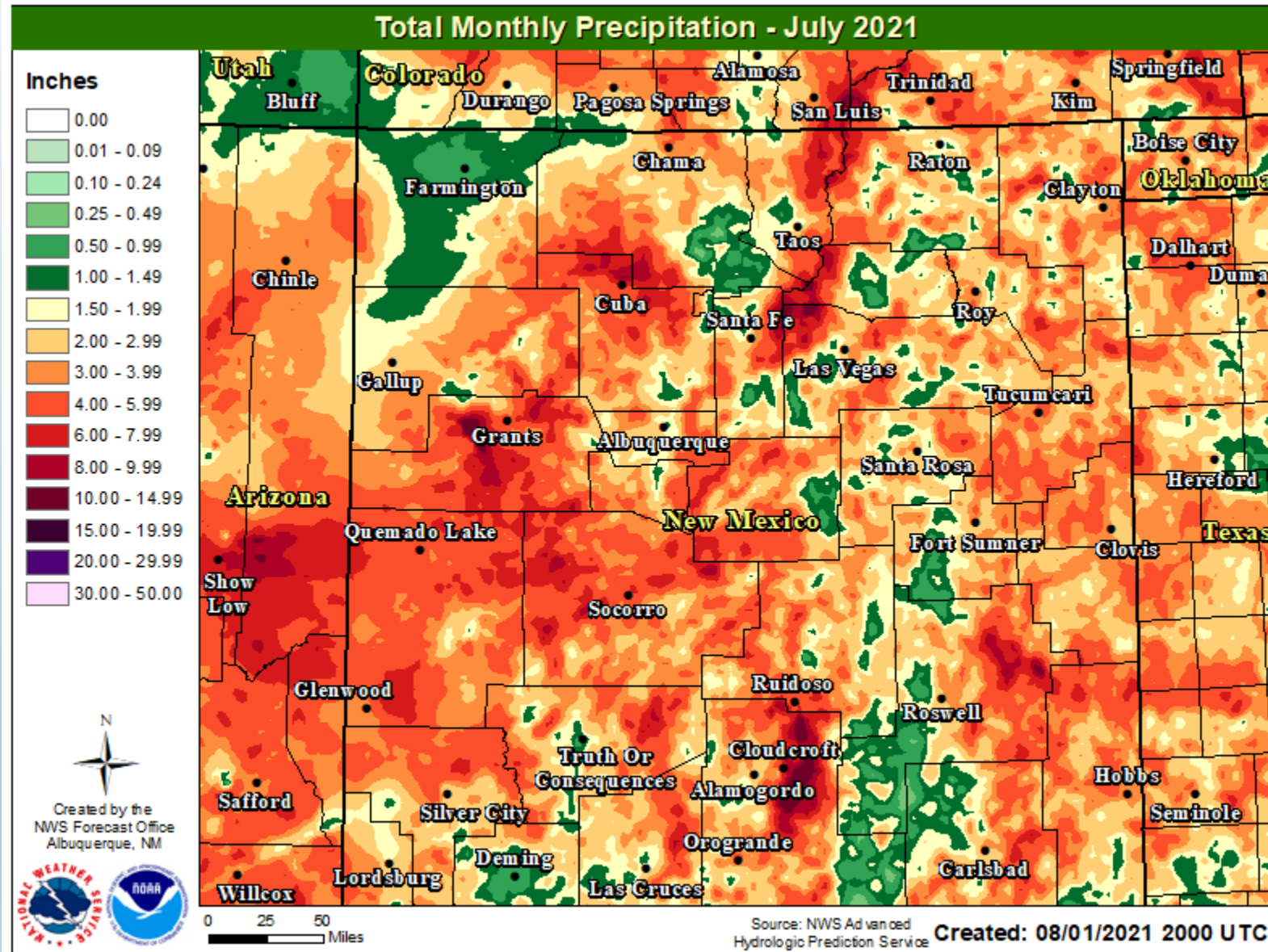


The average statewide temperature was 73.1°, which was 0.1° above the long-term normal of 73.0° (1901-2020). This ranks as a tie for the 76th warmest July on record.

The average statewide precipitation was 2.98", which was 0.62" above the long-term normal of 2.36" (1901-2020). This ranks as the 96th wettest July on record.

July 2021 Climate Summary

Monthly Precipitation



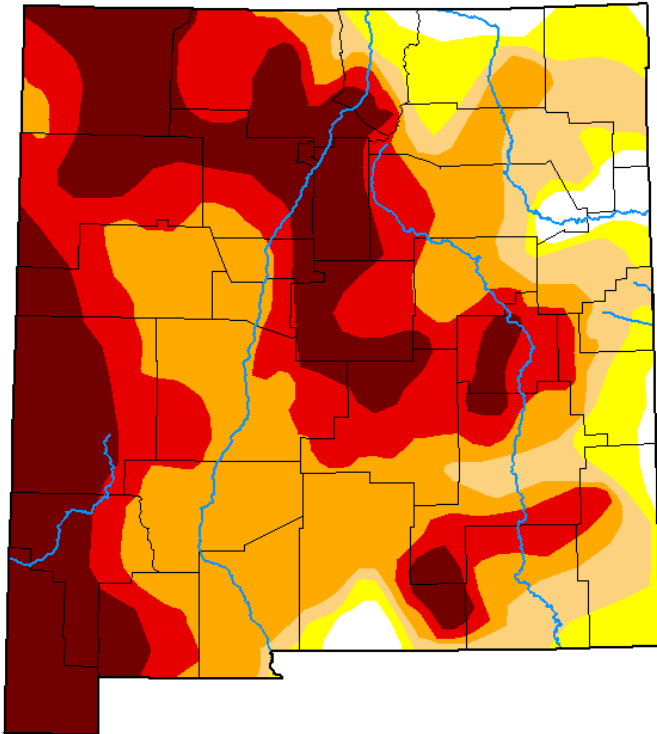
Here is a more detailed image of the July 2021 precipitation.



July 6

July 27

U.S. Drought Monitor New Mexico



July 6, 2021

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

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	3.62	96.38	88.20	77.12	49.34	25.67
Last Week 06-29-2021	1.04	98.96	92.88	84.87	58.80	30.47
3 Months Ago 04-06-2021	0.00	100.00	100.00	99.35	79.88	53.50
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 07-07-2020	17.61	82.39	58.16	40.83	11.17	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>

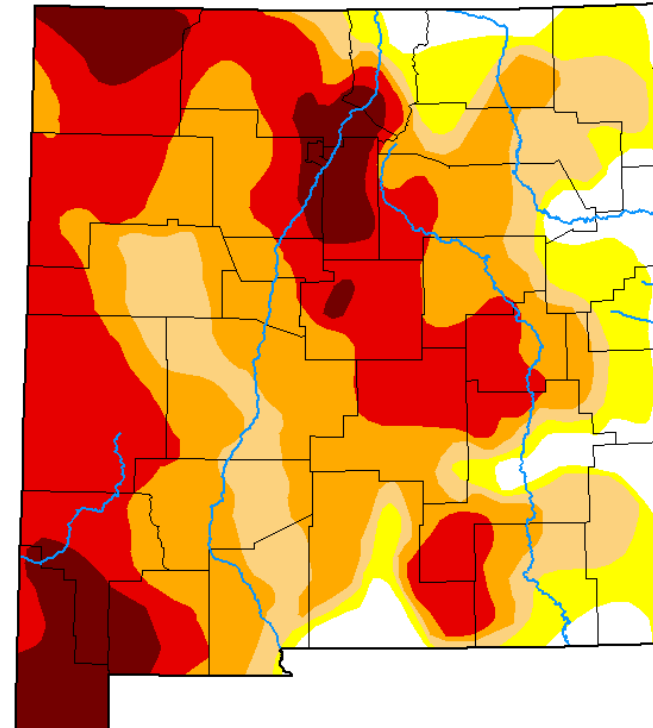
Author:

Deborah Bathke
National Drought Mitigation Center



droughtmonitor.unl.edu

U.S. Drought Monitor New Mexico



July 27, 2021

(Released Thursday, Jul. 29, 2021)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	7.68	92.32	81.75	66.55	37.22	9.01
Last Week 07-20-2021	7.15	92.85	83.53	70.97	44.80	21.53
3 Months Ago 04-27-2021	0.00	100.00	100.00	99.37	80.93	53.16
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 07-28-2020	0.00	100.00	94.11	45.60	13.81	0.00

Intensity:



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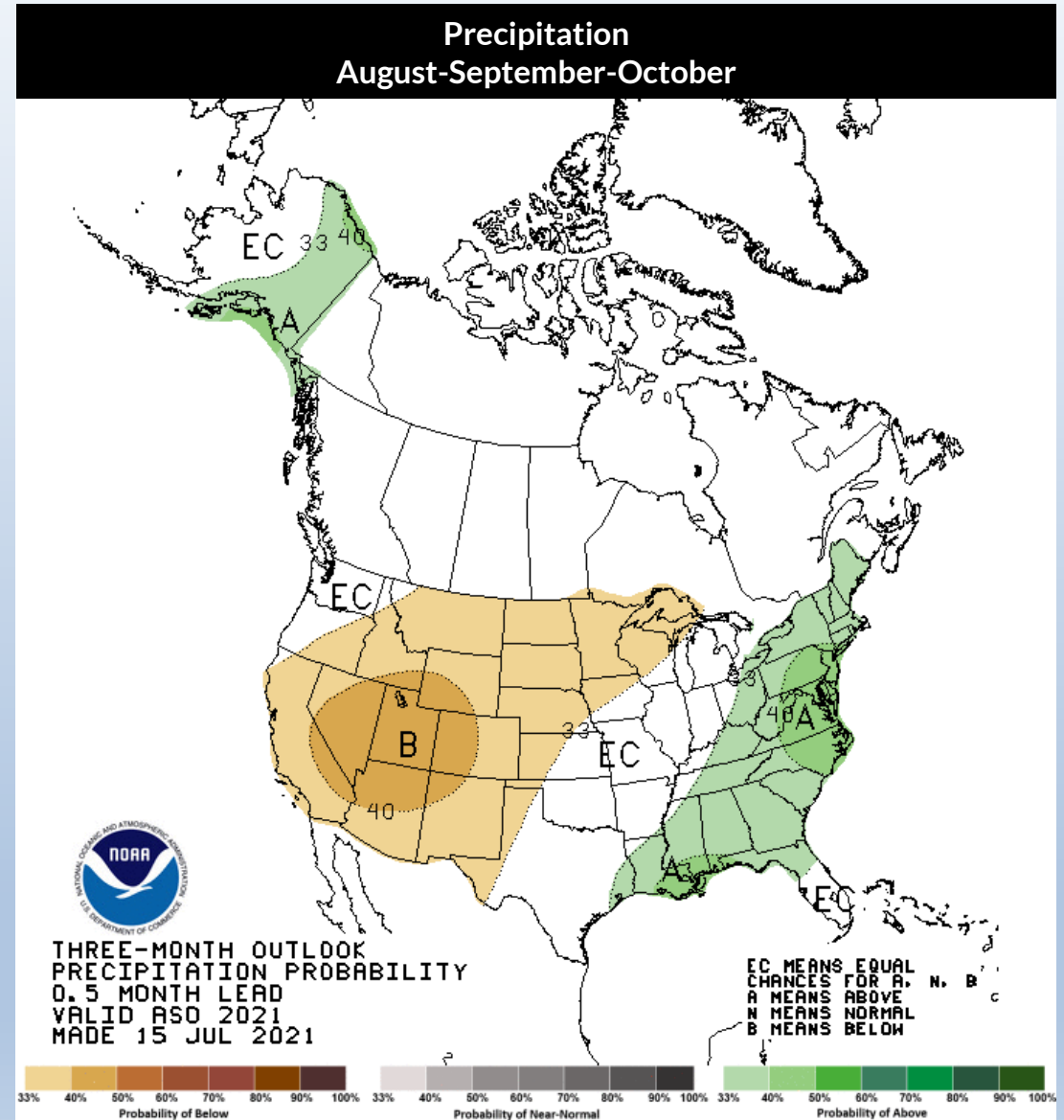
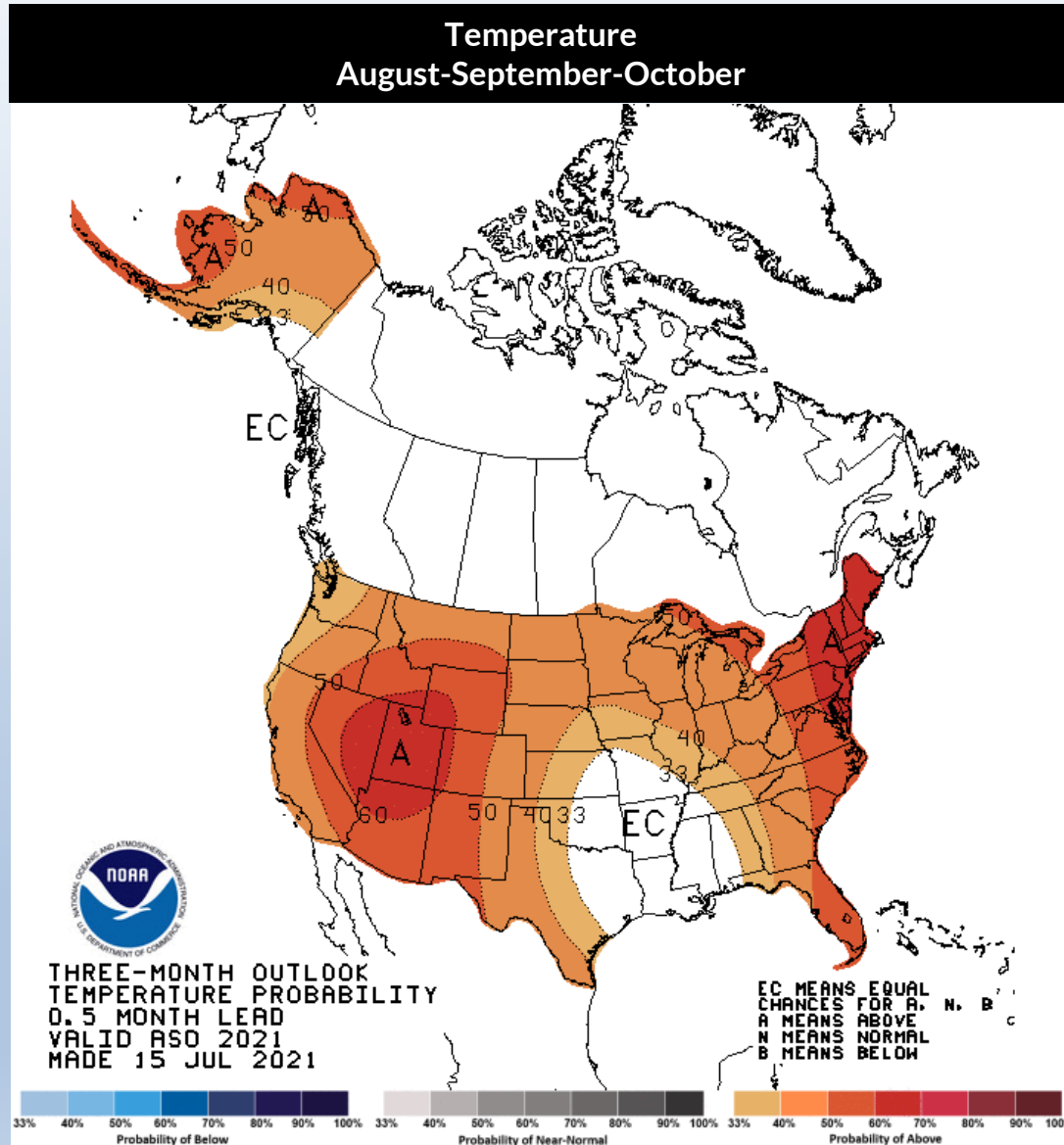
droughtmonitor.unl.edu

There was significant improvement most everywhere in New Mexico to the drought conditions during July 2021. Extreme to exceptional drought covers a little over 37% of the state, of which only 9% is exceptional (D4) drought.

July 2021 Climate Summary

90 Day Temperature & Precipitation Outlook

Weather Forecast Office
Albuquerque, NM
Issued January 9, 2022 2:32 PM MDT



The three month climate outlook from August through October strongly favors above normal temperature probabilities, while precipitation suggests a tendency toward below normal, especially in the northwest. This would favor persistent or worsening drought conditions in New Mexico.

July 2021 Climate Summary

Albuquerque Sunport Temperatures

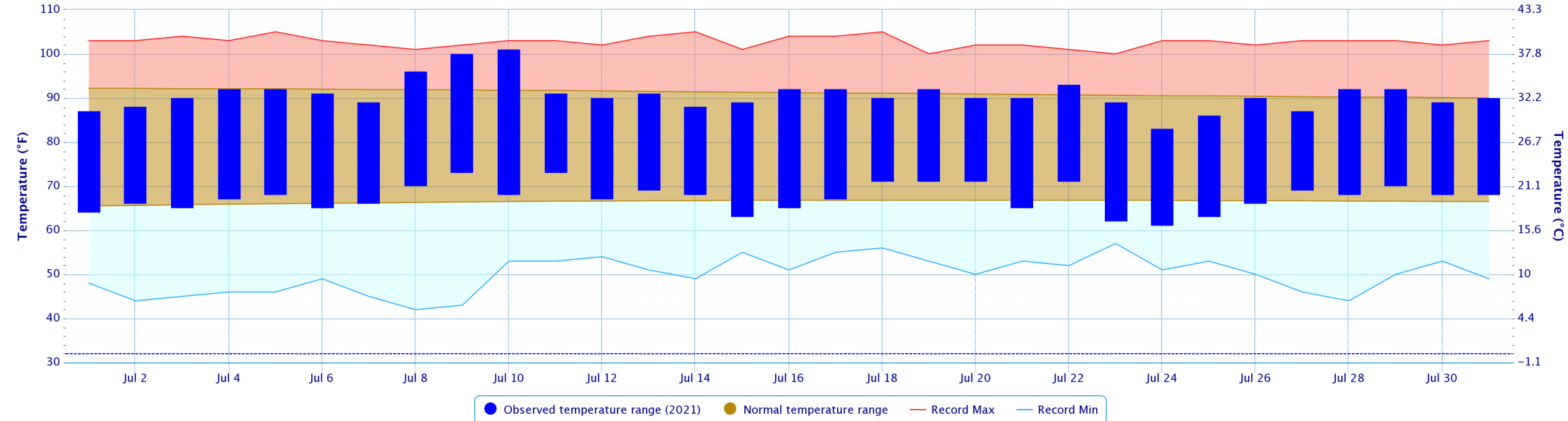
Weather Forecast Office
Albuquerque, NM
Issued January 9, 2022 2:32 PM MDT



(New 1991-2020 normals) Average Temperature: 79.0°

Daily Temperature Data – Albuquerque Area, NM (ThreadEx)

Period of Record – 1891-12-01 to 2021-07-31. Normals period: 1991-2020. Click and drag to zoom chart.



Powered by ACIS

The average July temperature for Albuquerque was 79.0°, which was 0.1° above the normal of 78.9°. The average maximum temperature for the month was 90.7°. This was 0.5° below the normal average maximum temperature of 91.2°. The average minimum temperature for the month was 67.4°. This was 0.9° above the normal average minimum temperature of 66.5°. July 2021 was tied for the 38th warmest July on record.

July 2021 Climate Summary

Albuquerque Sunport Precipitation

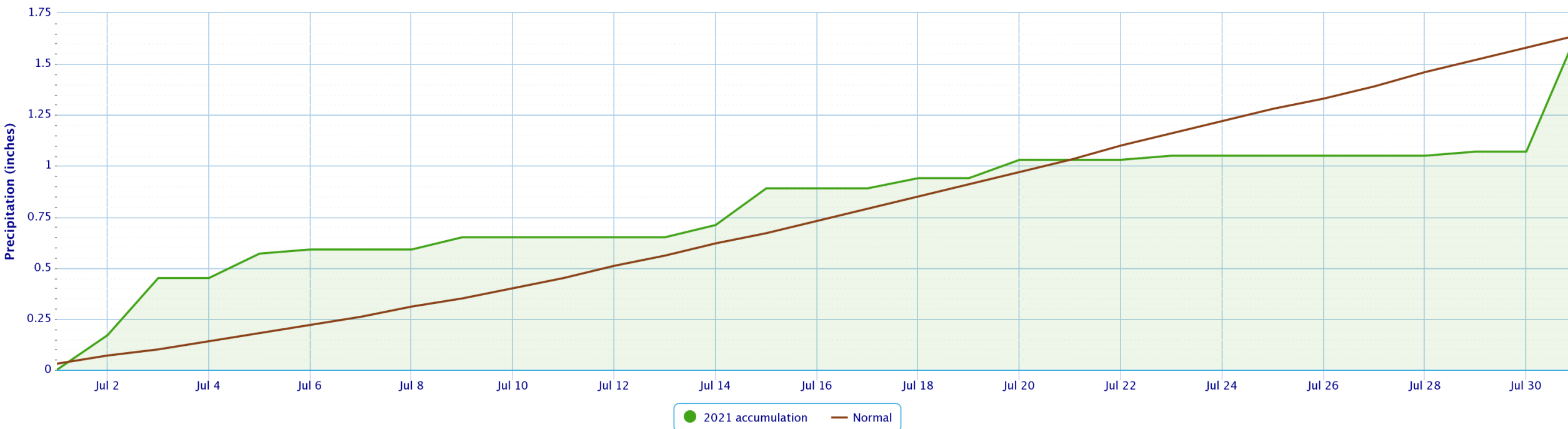
Weather Forecast Office
Albuquerque, NM
Issued January 9, 2022 2:32 PM MDT



(New 1991-2020 normals) Total Precipitation: 1.65"

Accumulated Precipitation – Albuquerque Area, NM (ThreadEx)

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



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There was 1.65" of precipitation measured at the Sunport, compared to the normal of 1.64", or 0.01" above normal. This was tied for the 46th wettest July on record (1892-2021).

July 2021 Climate Summary

Clayton Temperatures

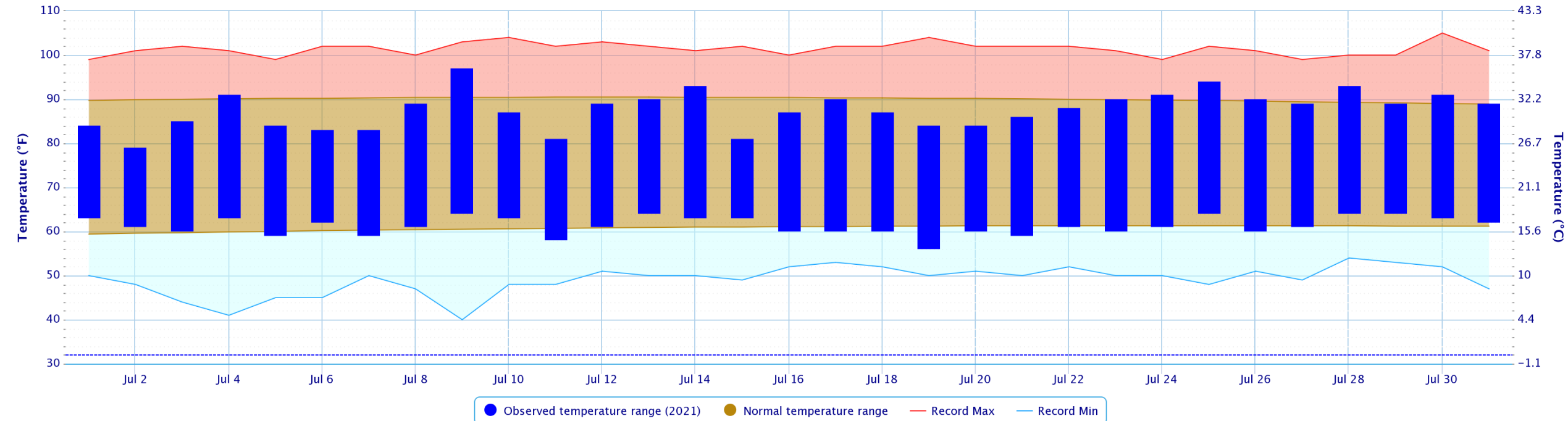
Weather Forecast Office
Albuquerque, NM
Issued January 9, 2022 2:32 PM MDT



(New 1991-2020 normals) Average Temperature: 74.5°

Daily Temperature Data - Clayton Area, NM (ThreadEx)

Period of Record - 1896-02-01 to 2021-07-31. Normals period: 1991-2020. Click and drag to zoom chart.



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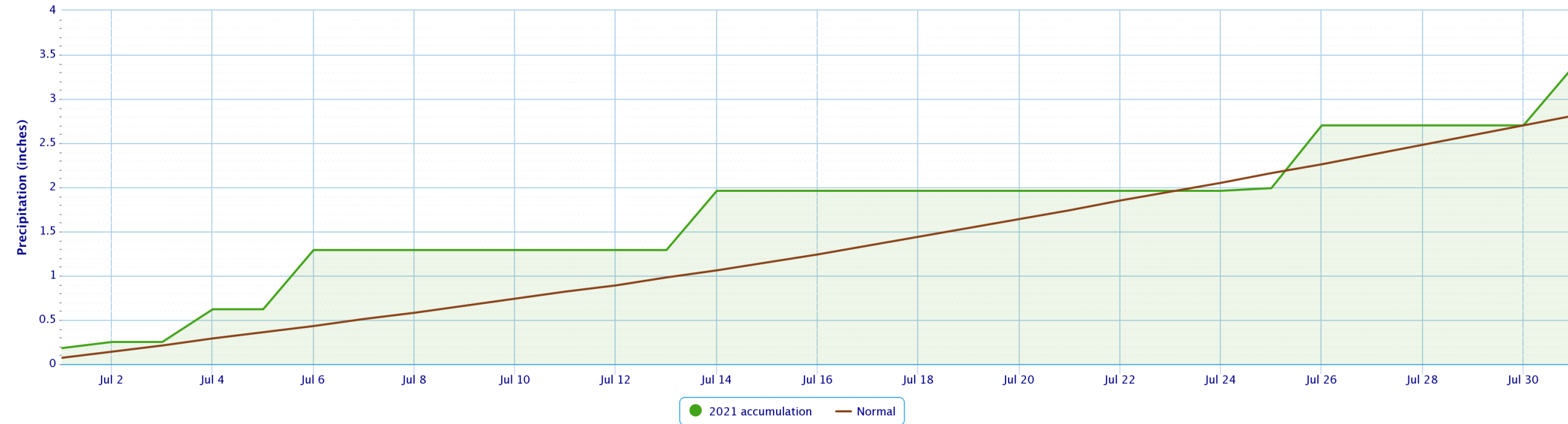
The average July temperature for Clayton was 74.5°, which was 0.9° below the normal of 75.4°. The average maximum temperature for the month was 87.6. This was 2.4° below the normal average maximum temperature of 90.0°. The average minimum temperature for the month was 61.2°. This was 0.4° above the normal average minimum temperature of 60.8°. July 2021 was tied with the 53rd warmest July on record.



(New 1991-2020 normals) Total Precipitation 3.37"

Accumulated Precipitation - Clayton Area, NM (ThreadEx)

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



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There was 3.37" of precipitation measured at Clayton in July 2021, compared to the normal of 2.81", or 0.56" above normal. This ranks as the 32nd wettest July on record (1892-2020).

July 2021 Climate Summary

Roswell Temperatures

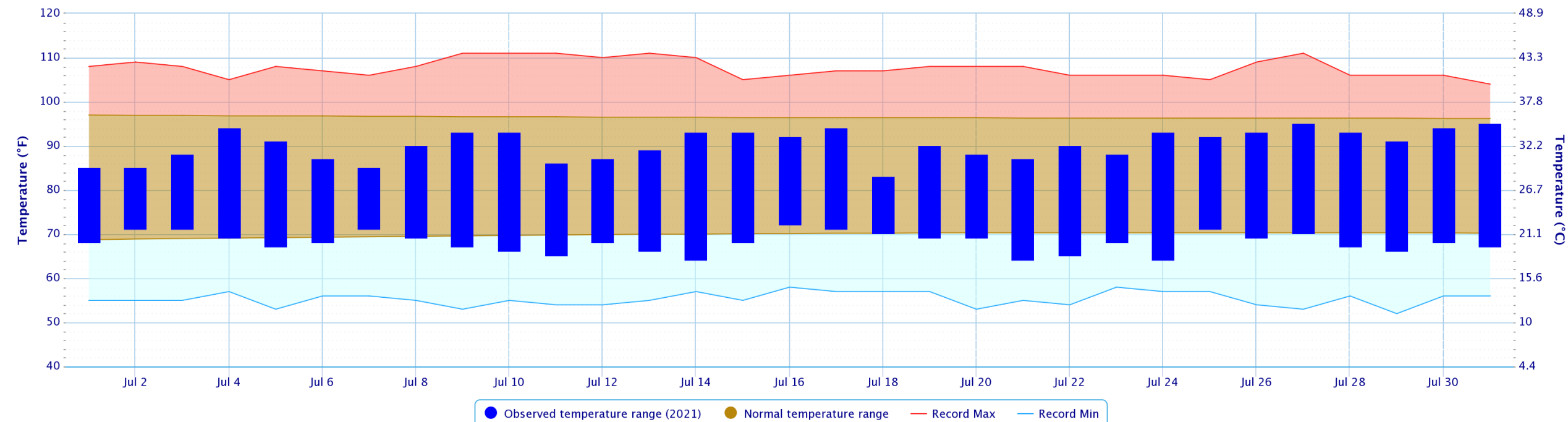
Weather Forecast Office
Albuquerque, NM
Issued January 9, 2022 2:32 PM MDT



(New 1991-2020 normals) Average Temperature: 79.1°

Daily Temperature Data – Roswell Area, NM (ThreadEx)

Period of Record – Max temperature: 1893-01-03 to 2021-07-31; Min temperature: 1893-01-21 to 2021-07-31. Normals period: 1991-2020. Click and drag to zoom chart.



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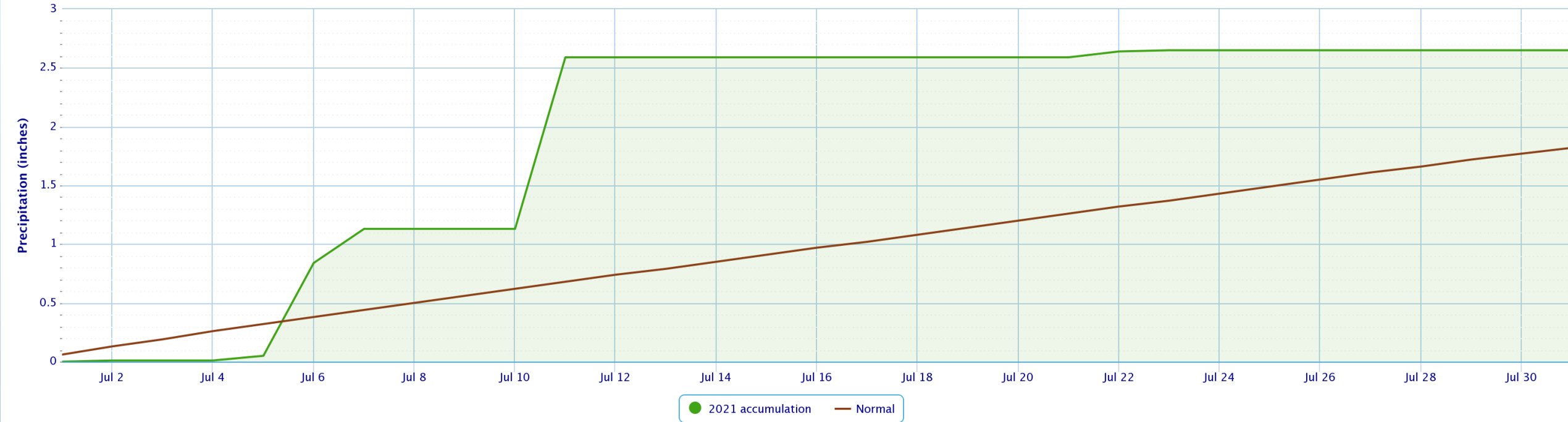
The average July temperature for Roswell was 79.1°, which was 4.1° below the normal of 83.2°. The average maximum temperature for the month was 90.1°. This was 6.4° below the average maximum temperature of 96.5°. The average minimum temperature for the month was 68.0°. This was 1.9° below the normal average minimum temperature of 69.9°. July 2021 tied for the 56th coolest July on record.



(New 1991-2020 normals) Total Precipitation 2.65"

Accumulated Precipitation – Roswell Area, NM (ThreadEx)

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



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There was 2.65" of precipitation measured at Roswell, compared to the normal of 1.82", or 0.83" above normal! This ranks as the 34th wettest July on record (1892-2020).

July 2021 Climate Summary

Severe Weather*

Weather Forecast Office
Albuquerque, NM
Issued January 9, 2022 2:32 PM MDT



Event Type	Date	County/Zone Name	Magnitude	Type	Event Narrative
Flash Flood	7/1/2021	Union			Two vehicles were swept away from flood waters near Grenville. No injuries reported.
Flash Flood	7/1/2021	Chaves			Major flooding along the Rio Felix around Hagerman.
Flash Flood	7/2/2021	Mora			Significant flash flooding impacted the Luna Burn Scar.
Funnel Cloud	7/1/2021	Chaves			The Chaves County emergency manager reported a brief funnel cloud near Hagerman.
Flash Flood	7/3/2021	Lincoln			Significant flash flooding impacted Magado Creek.
Hail	7/4/2021	Mora	0.88"		Nickel size hail fell around Wagon Mound.
Thunderstorm Wind	7/4/2021	Quay	55 kt	Gust	Tucumcari measured a 63 mph wind gust.
Thunderstorm Wind	7/4/2021	Roosevelt	48 kt	Gust	Minor tree damage reported around Floyd.
Thunderstorm Wind	7/4/2021	Roosevelt	52 kt	Gust	Minor vehicle damage near Elida.
Flash Flood	7/6/2021	Mora			Significant flash flooding impacted the Luna Burn Scar.
Flash Flood	7/6/2021	Lincoln			Major flash flooding impacted the Ruidoso area.
Thunderstorm Wind	7/6/2021	Guadalupe	52 kt	Gust	Anton Chico reported 60 mph wind gusts.
Thunderstorm Wind	7/6/2021	Union	52 kt	Gust	Sedan reported 60 mph wind gusts.
Hail	7/6/2021	Quay	0.88"		Tucumcari reported nickel size hail.
Flash Flood	7/6/2021	San Miguel			Flash flooding impacted State Road 104.
Hail	7/6/2021	Guadalupe	1"		Quarter size hail fell near Cuervo.
Flash Flood	7/6/2021	De Baca			State Road 20 was closed due to flash flooding from mile marker 0 to mile marker 45.
Flash Flood	7/6/2021	Valencia			Over 2" of rain breached the Belen Highline Canal which caused flooding along Main Street.
Hail	7/9/2021	San Miguel	0.75"		Penny size hail accumulated to around 4 inches near Tererro.
Hail	7/10/2021	Colfax	1"		Quarter size hail was reported near Philmont Scout Ranch.
Hail	7/10/2021	Colfax	1"		Quarter size hail was reported near Maxwell.
Thunderstorm Wind	7/10/2021	Socorro	52 kt	Gust	A trained spotter near Magdalena estimated 60 mph wind gusts.
Lightning	7/6/2021	Santa Fe			A lightning strike near Edgewood destroyed a shed, a porch, and a fifth wheel RV.
Flash Flood	7/6-7/7/2021	Socorro			Two to 4" of rain resulted in serious flood damage around La Joya and Sabinal.
Flash Flood	7/6/2021	Guadalupe			An arroyo near Dilia overflowed its banks.

*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/>

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Severe Weather*

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Event Type	Date	County/Zone Name	Magnitude	Type	Event Narrative
Hail	7/12/2021	Santa Fe	1"		A trained spotter near Stanley reported quarter size hail.
Thunderstorm Wind	7/12/2021	Santa Fe	55 kt	Gust	The Sandia Airpark measured a 63 mph wind gust.
Tornado	7/13/2021	Santa Fe			A trained spotter reported a brief landspout southeast of Madrid.
Flash Flood	7/13/2021	Mora			Major flash flooding impacted the Luna Burn Scar.
Flash Flood	7/14/2021	Santa Fe			Flash flooding impacted Pojoaque.
Flash Flood	7/14/2021	Santa Fe			Flash flooding impacted Jaconita.
Hail	7/15/2021	Colfax	1.75"		Golf ball size hail fell near Maxwell with some damage reported.
Hail	7/11/2021	Chaves	1.75"		Golf ball size hail fell around Roswell.
Hail	7/11/2021	Chaves	0.75"		Penny size hail impacted Hagerman.
Hail	7/11/2021	Chaves	1"		Multiple spotters in Roswell reported quarter size hail.
Thunderstorm Wind	7/11/2021	Chaves	52 kt	Gust	Hagerman law enforcement estimated a 60 mph wind gust.
Hail	7/11/2021	Roosevelt	1"		A trained spotter near Pep reported quarter size hail.
Hail	7/11/2021	Lincoln	2"		A member of the public near Picacho measured 2 inch hail.
Hail	7/11/2021	Sandoval	1"		Multiple observers in Cuba reported nickel to quarter size hail.
Hail	7/11/2021	Lincoln	1"		A trained spotter near Carrizozo reported quarter size hail with minor flooding.
Hail	7/11/2021	Santa Fe	1"		Multiple observers reported quarter size hail from a severe thunderstorm near Santa Fe.
Hail	7/11/2021	Lincoln	1"		An observer reported quarter size hail near Carrizozo.
Hail	7/11/2021	Harding	0.88"		A trained spotter reported nickel size hail near Chicosa Lake State Park.
Hail	7/11/2021	Harding	1"		A trained spotter reported quarter size hail from a severe thunderstorm near Mills.
Hail	7/11/2021	Colfax	1.7"		A trained spotter measured 1.7 inch hail from a severe thunderstorm near Philmont Scout Ranch.
Flash Flood	7/11/2021	Chaves			Heavy rainfall flooded parts of Roswell.
Flash Flood	7/11/2021	Sandoval			A trained spotter near Cuba reported flash flooding due to heavy rainfall.
Flash Flood	7/11/2021	Lincoln			The Carrizozo airport measured 3.95" of rain which resulted in flash flooding.
Excessive Heat	7/10/2021	Northwest Plateau			The Farmington Airport recorded a new all-time record high temperature of 106 degrees.

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Severe Weather*

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Event Type	Date	County/Zone Name	Magnitude	Type	Event Narrative
Flash Flood	7/17/2021	Quay			Flash flooding resulted in the closure of State Road 469.
Thunderstorm Wind	7/17/2021	Curry	50 kt	Gust	Clovis airport measured a 58 mph wind gust.
Hail	7/20/2021	Quay	0.88"		A CoCoRaHS observer in House reported nickel size hail with minor damage.
Flash Flood	7/20/2021	Santa Fe			Heavy rainfall around Eldorado resulted in some flash flooding.
Flash Flood	7/20/2021	Bernalillo			Flash flooding impacted State Road 14 in the Cedar Crest area.
Flash Flood	7/20/2021	Bernalillo			Heavy rainfall on the east side of ABQ resulted in 3 fatalities in the urban arroyo system.
Flash Flood	7/22/2021	Catron			Heavy rain in Old Horse Springs resulted in flash flooding with damage to roadways.
Flash Flood	7/23/2021	Cibola			A trained spotter in Fence Lake reported that County Road 35D had been washed out due to heavy rain.
Hail	7/23/2021	Torrance	2.75"		Baseball size hail caused major damage around Corona.
Thunderstorm Wind	7/23/2021	Bernalillo	43 kt	Gust	A large tree limb was downed at Fruit Ave and Luna Blvd in southwest Albuquerque.
Tornado	7/23/2021	Sandoval			A brief landspout tornado was seen near Idalia Road and Highway 528 in Rio Rancho.
Flash Flood	7/23/2021	Catron			Flash flooding occurred near Apache Creek.
Hail	7/25/2021	Lincoln	0.88"		The Lincoln County emergency manager reported dime to nickel size hail near Alto.
Flash Flood	7/25/2021	Sandoval			Heavy rain in Jemez Springs resulted in the Jemez River to overflow its banks.
Flash Flood	7/25/2021	Lincoln			Flash flooding occurred around Angus with minor damage reported.
Hail	7/26/2021	Colfax	0.88"		A trained spotter near Ute Park reported nickel size hail.
Flash Flood	7/26/2021	Lincoln			A thunderstorm near Encinoso produced 1.5 to 2" of rainfall with severe flooding along State Road 246.
Flash Flood	7/26/2021	Colfax			Significant flash flooding occurred around Ute Park from the Ute Park Burn Scar.
Hail	7/23/2021	Torrance	1.5"		Ping pong size hail fell near Duran with damage reported.
Hail	7/23/2021	Valencia	1"		A resident in Los Lunas reported penny to quarter size hail.
Flash Flood	7/23/2021	Rio Arriba			Flash flooding impacted U.S. Highway 84 between mile marker 231 and 234 north of Ghost Ranch.
Flash Flood	7/23/2021	Socorro			Flash flooding impacted La Joya and Contreras with significant damage reported.

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July 2021 Climate Summary

Severe Weather*








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Event Type	Date	County/Zone Name	Magnitude	Type	Event Narrative
Flash Flood	7/26/2021	Sandoval			Flash flooding impacted Placitas with damage to roadways.
Flash Flood	7/27/2021	Mora			Significant flash flooding impacted the Luna Burn Scar.
Flash Flood	7/27/2021	San Juan			Flash flooding impacted the La Plata River around State Road 170 and County Road 1788.
Flash Flood	7/21/2021	San Juan			Significant flash flooding impacted Chaco Canyon with damage to campgrounds and roadways.
Flash Flood	7/27/2021	Bernalillo			Heavy rainfall on the east side of ABQ resulted in another fatality in the urban arroyo system.
Flash Flood	7/29/2021	Sandoval			Heavy rain resulted in flash flooding around Cuba.
Flash Flood	7/31/2021	Mora			Significant flash flooding impacted the Luna Burn Scar.
Flash Flood	7/31/2021	Santa Fe			1.85 inches of rain in Madrid led to flash flooding along State Road 14.
Thunderstorm Wind	7/23/2021	Torrance	52 kt	Gust	Severe thunderstorm winds produced localized property damage around Moriarty.

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-  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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