



Synopsis

July 2023 was the hottest July and one of the driest Julys on record. Numerous record highs and streaks were broken. For example, Roswell reached 112° for the first time ever during the month of July and Albuquerque did not record any measurable precipitation during the month of July for the first time. The for only location that received consistent rainfall was in the northeast where rounds of severe weather produced large hail and damaging wind gusts. Despite the abnormally dry conditions, heavy rainfall over the HPCC burn scar produced flash flooding towards the end of the month.



Photo courtesy Avery Willow
Hermit's Peak Calf Canyon burn scar on 7/21



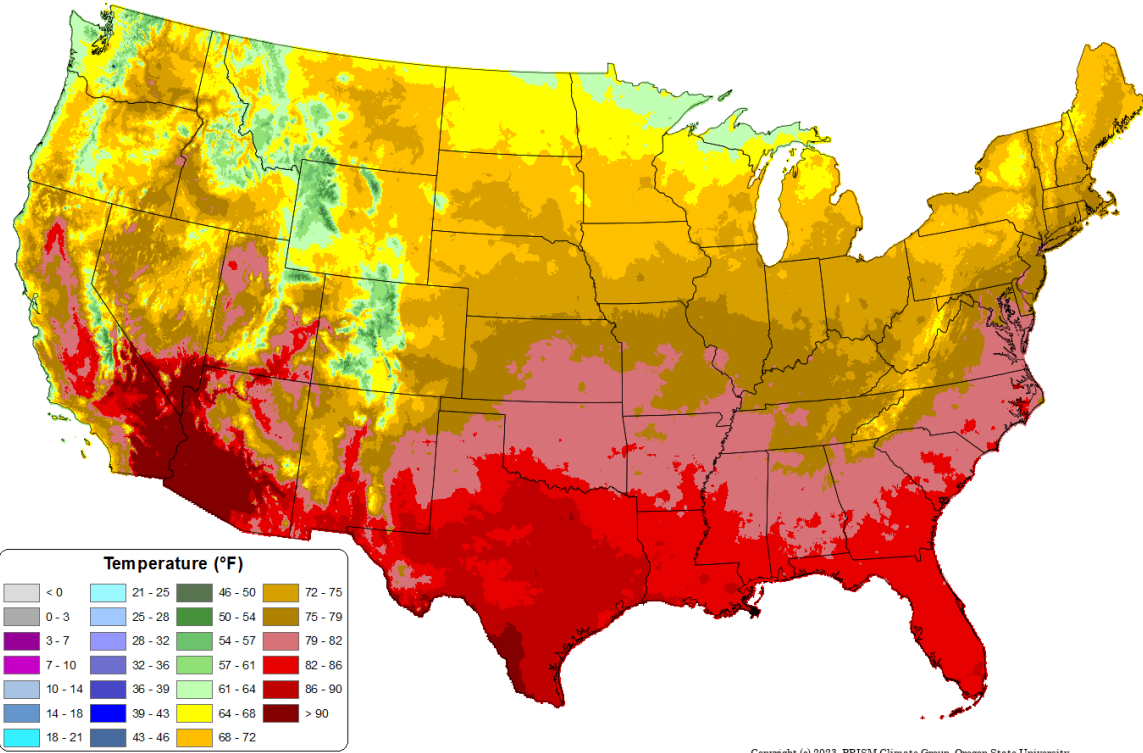
Photo courtesy Susan Peccatiello
SW of Moriarty on 7/24



Photo courtesy Angelica Velasquez
Hermit's Peak Calf Canyon burn scar on 7/21

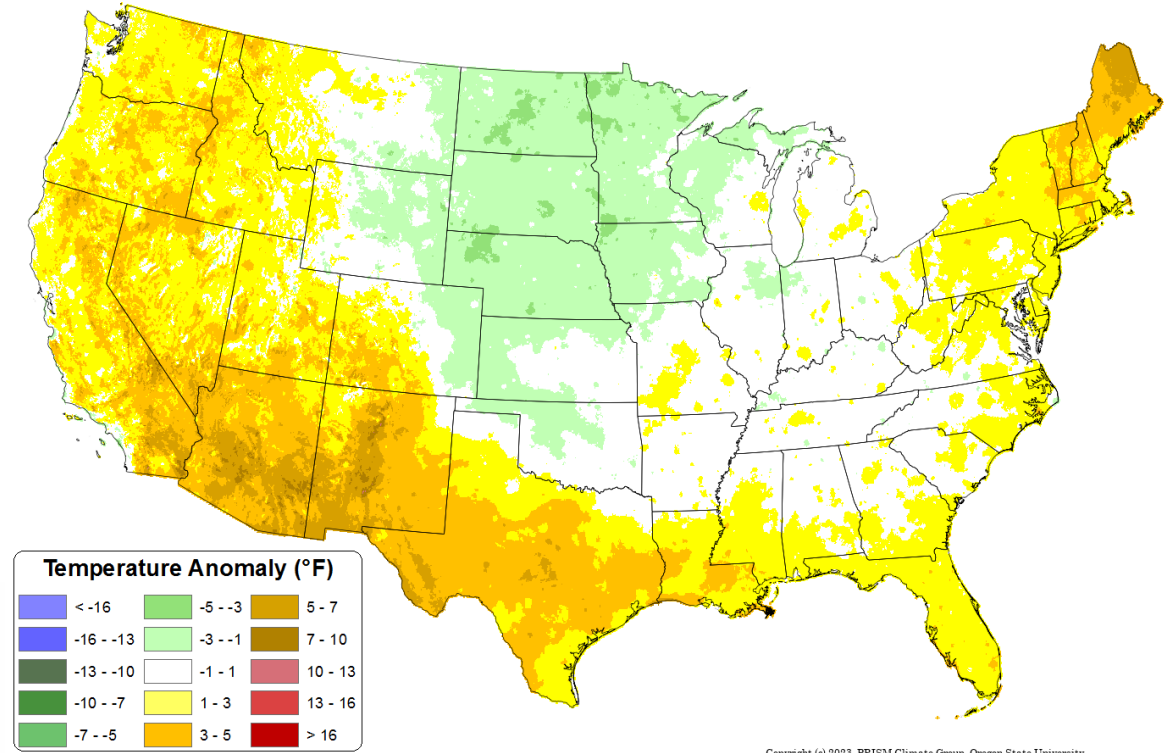
Actual

Average Daily Mean Temperature: Jul 2023
 Period ending 7 AM EST 31 Jul 2023
 (Map created 02 Aug 2023)



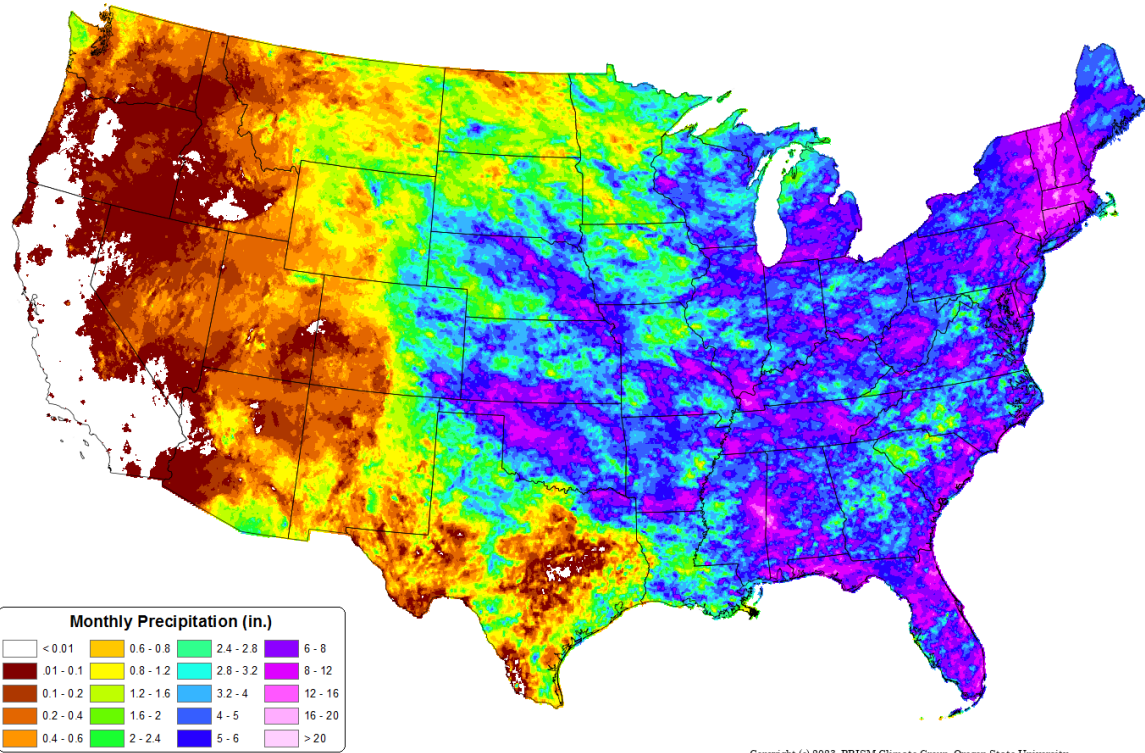
Anomaly

Daily Mean Temperature Anomaly: Jul 2023
 Period ending 7 AM EST 31 Jul 2023
 Base period: 1991-2020
 (Map created 02 Aug 2023)



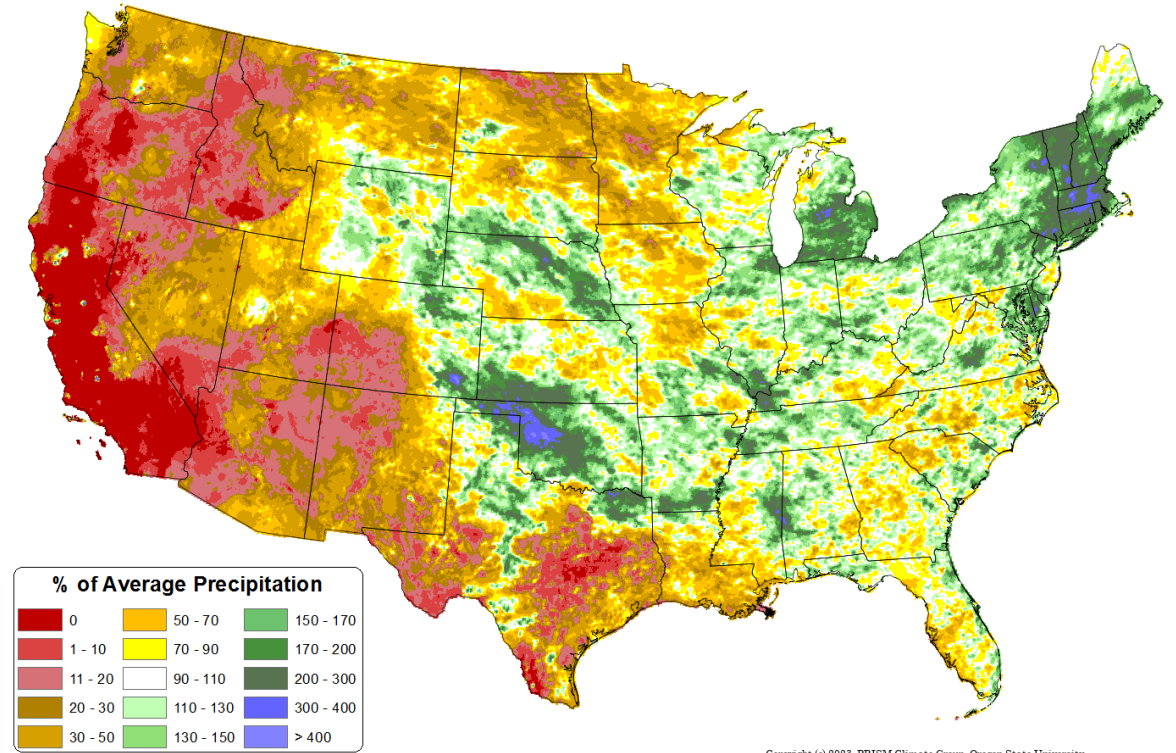
Actual

Total Precipitation: Jul 2023
Period ending 31 Jul 2023
(Map created 02 Aug 2023)



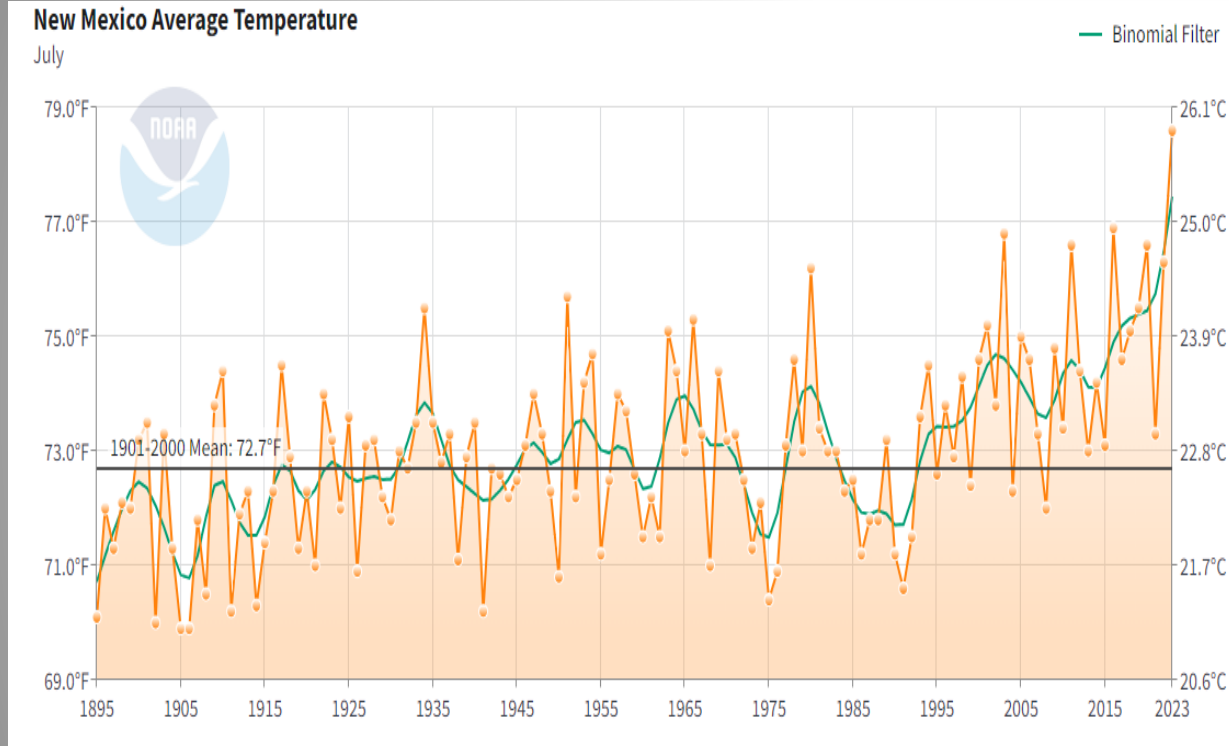
Anomaly

Total Precipitation Anomaly: Jul 2023
Period ending 31 Jul 2023
Base period: 1991-2020
(Map created 02 Aug 2023)

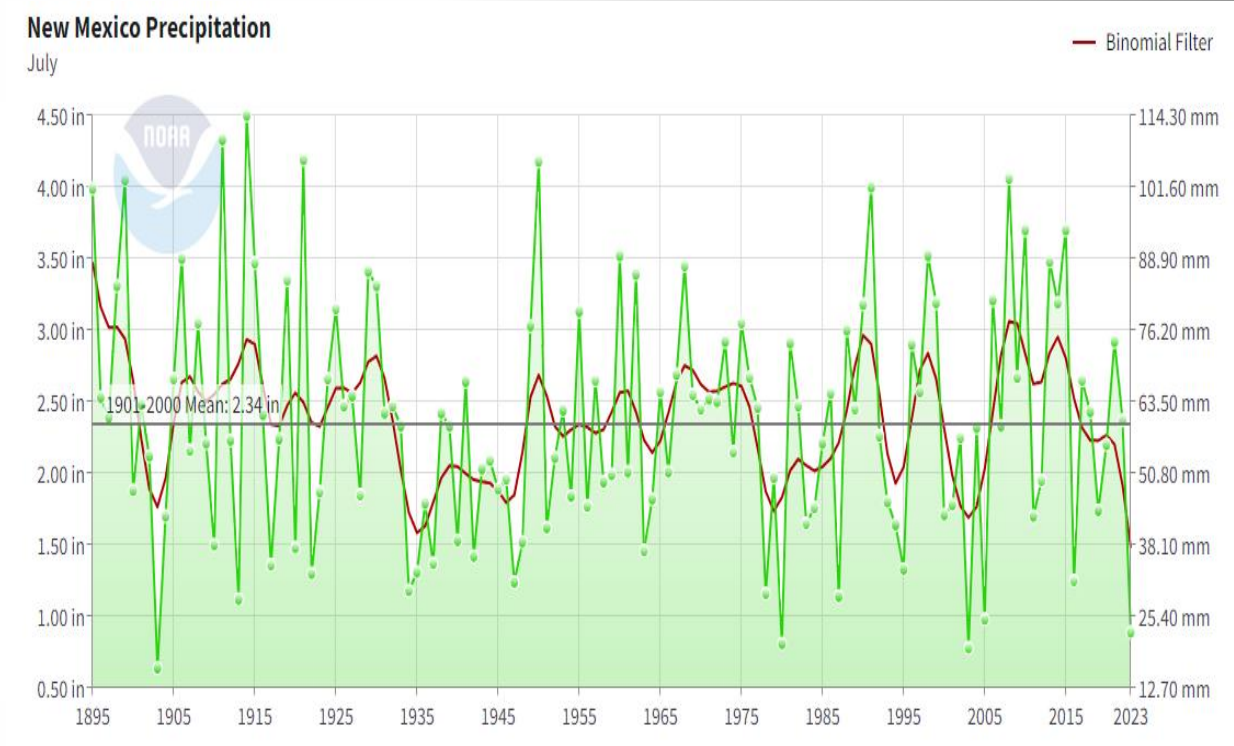




Temperature



Precipitation

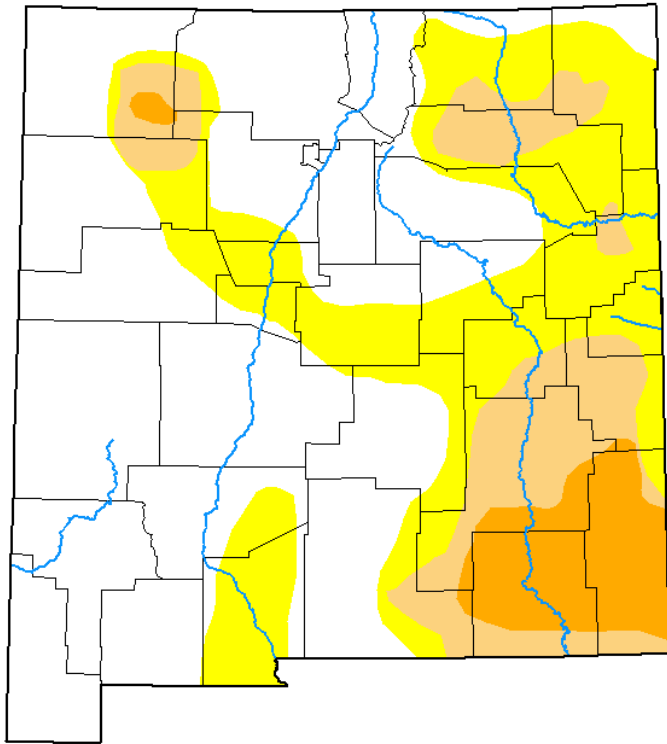


The July 2023 average statewide temperature was 78.6°, which was 5.9° above the long-term normal of 72.7° (1901-2000). This ranked as the warmest July on record (1895-2023).

The July 2023 average statewide precipitation was 0.89", which was 1.45" below the long-term normal of 2.34" (1901-2000). This ranked as the 4th driest July on record (1895-2023).



U.S. Drought Monitor New Mexico



July 4, 2023
(Released Thursday, Jul. 6, 2023)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	55.79	44.21	18.89	6.93	0.00	0.00
Last Week 06-27-2023	55.92	44.08	18.89	6.93	0.00	0.00
3 Months Ago 04-04-2023	47.20	52.80	32.16	15.67	4.20	0.21
Start of Calendar Year 01-03-2023	7.03	92.97	41.30	18.55	3.74	0.19
Start of Water Year 09-27-2022	0.99	99.01	76.80	31.46	6.99	0.00
One Year Ago 07-05-2022	0.00	100.00	98.45	94.89	57.11	11.35

Intensity:
 None (white) D2 Severe Drought (dark orange)
 D0 Abnormally Dry (yellow) D3 Extreme Drought (red)
 D1 Moderate Drought (light orange) D4 Exceptional Drought (dark red)

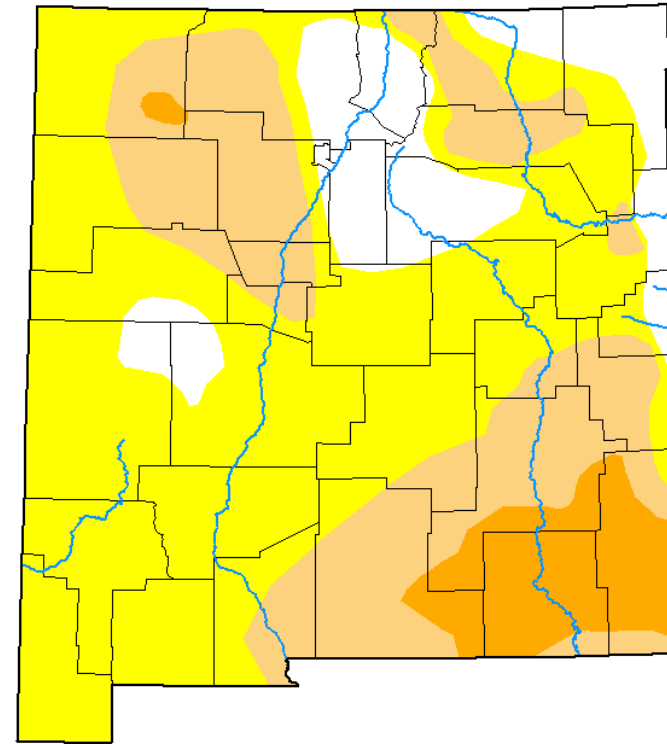
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

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droughtmonitor.unl.edu

U.S. Drought Monitor New Mexico



July 25, 2023
(Released Thursday, Jul. 27, 2023)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	13.64	86.36	34.04	8.22	0.00	0.00
Last Week 07-18-2023	37.11	62.89	18.25	6.41	0.00	0.00
3 Months Ago 04-25-2023	46.63	53.37	32.14	16.19	4.18	0.21
Start of Calendar Year 01-03-2023	7.03	92.97	41.30	18.55	3.74	0.19
Start of Water Year 09-27-2022	0.99	99.01	76.80	31.46	6.99	0.00
One Year Ago 07-26-2022	0.68	99.32	98.51	76.22	32.58	11.08

Intensity:
 None (white) D2 Severe Drought (dark orange)
 D0 Abnormally Dry (yellow) D3 Extreme Drought (red)
 D1 Moderate Drought (light orange) D4 Exceptional Drought (dark red)

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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droughtmonitor.unl.edu

Drought conditions developed throughout much of the state because of the very hot and dry weather. The month ranked as the hottest July on record and the 4th driest on record so evapotranspiration rates were very high. The exception to the dry conditions was in northeastern NM where drought conditions continued to improve.

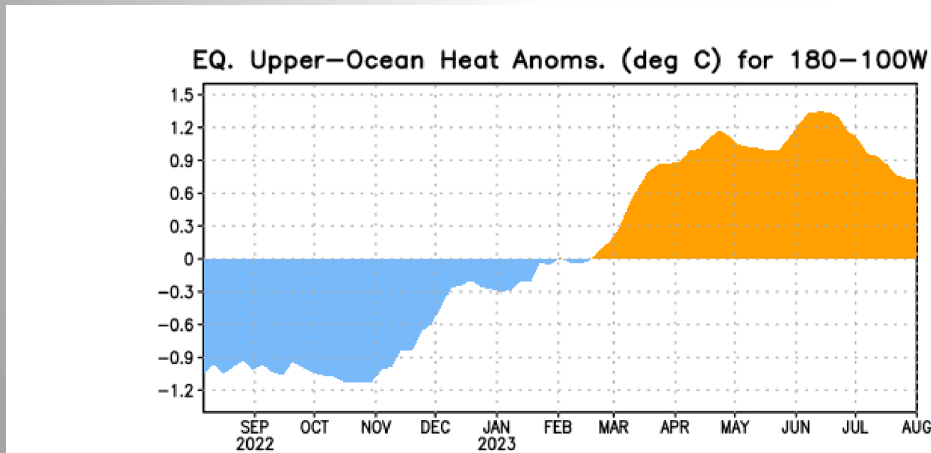
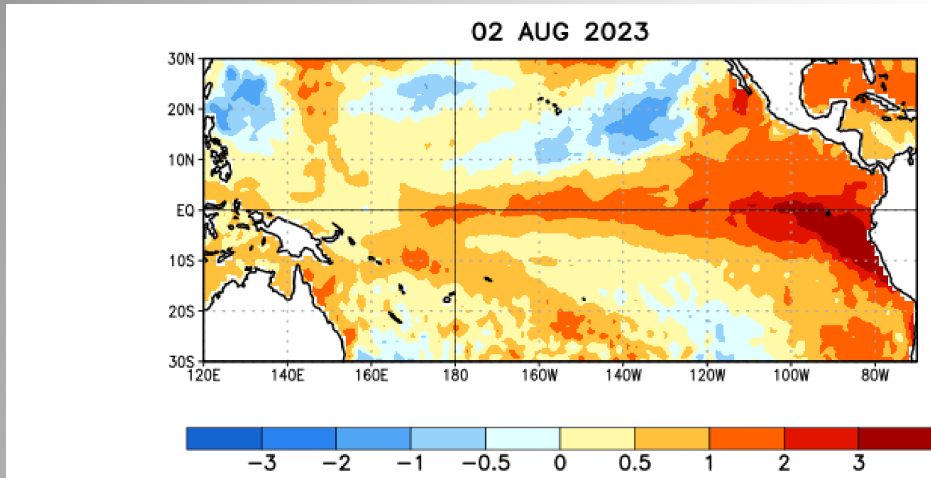
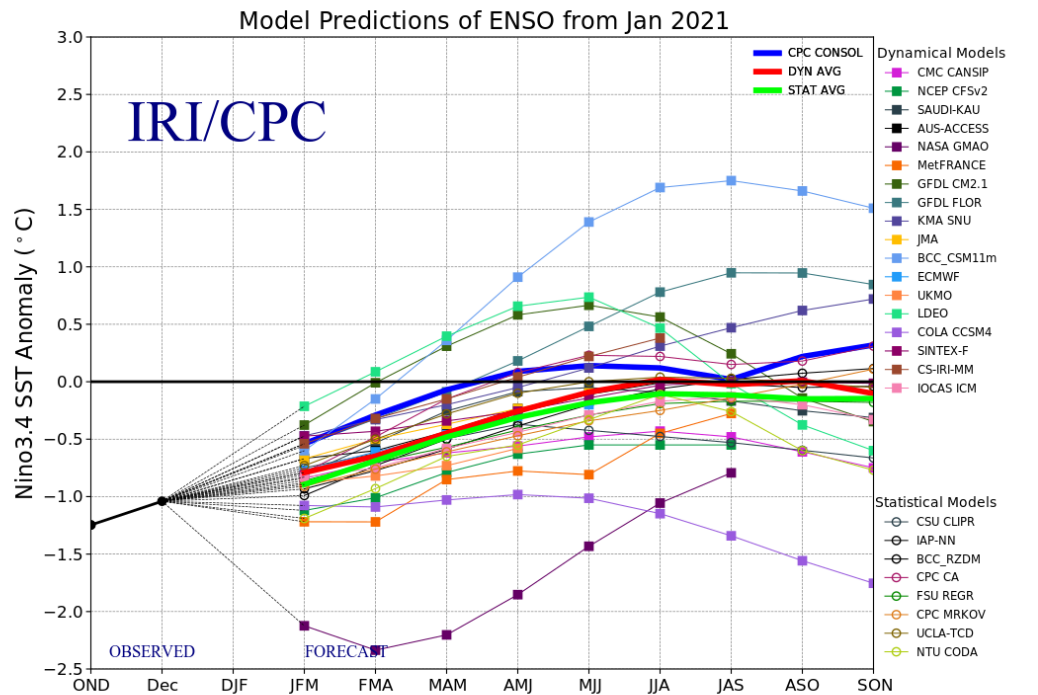
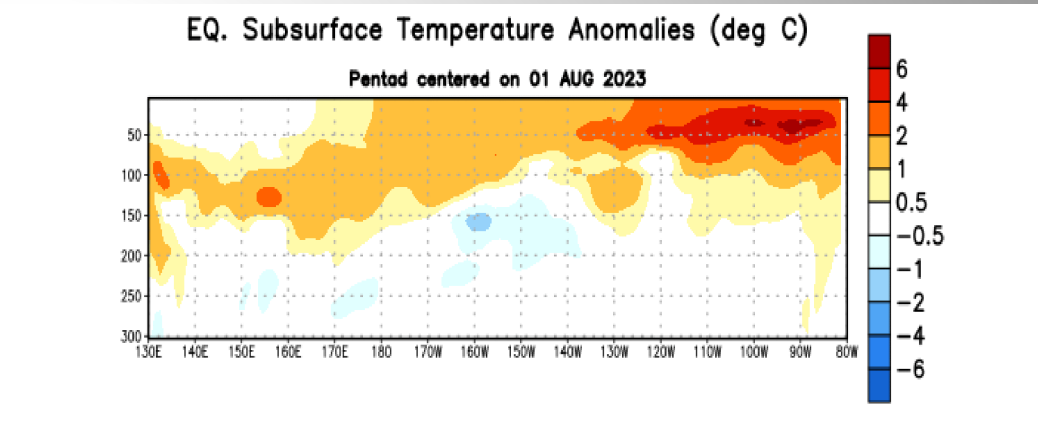
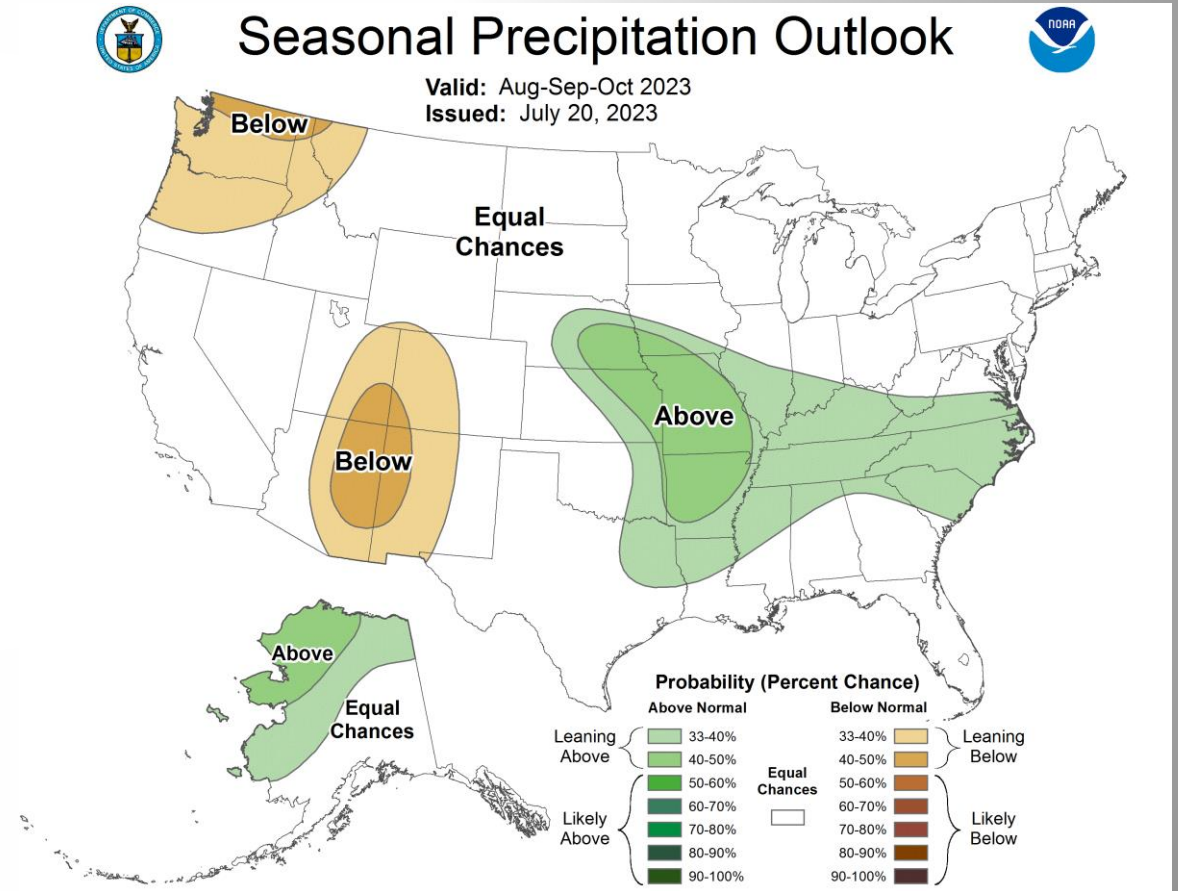
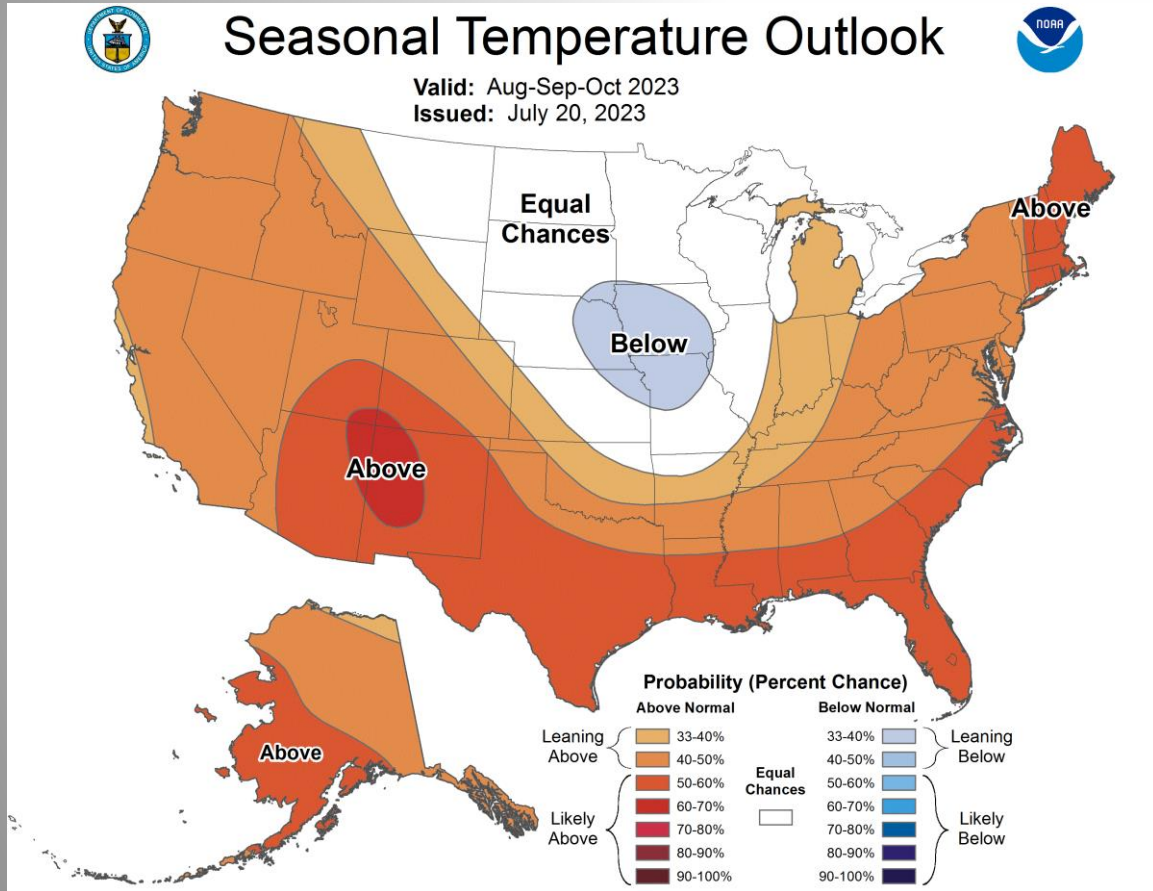


Figure 3. Area-averaged upper-ocean heat content anomaly ($^{\circ}\text{C}$) in the equatorial Pacific (5°N - 5°S , 180° - 100°W). The heat content anomaly is computed as the departure from the 1991-2020 base period pentad means.



Temperature
August-September-October

Precipitation
August-September-October

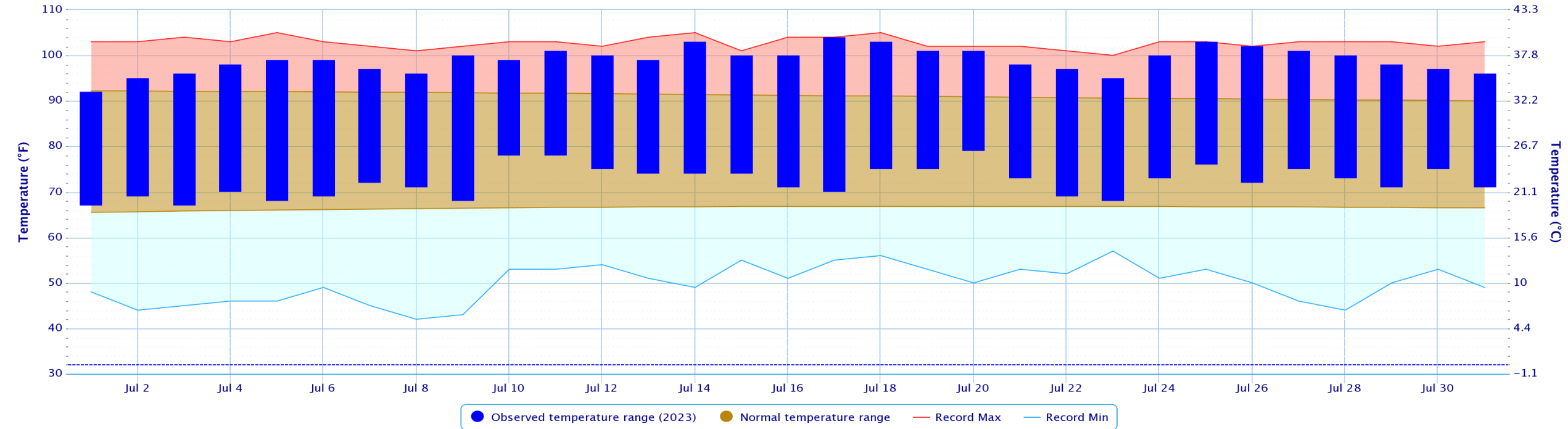




Average Temperature: 85.6°

Daily Temperature Data – ALBUQUERQUE INTL AP, NM

Period of Record – 1891-12-01 to 2023-08-11. Normals period: 1991-2020. Click and drag to zoom chart.



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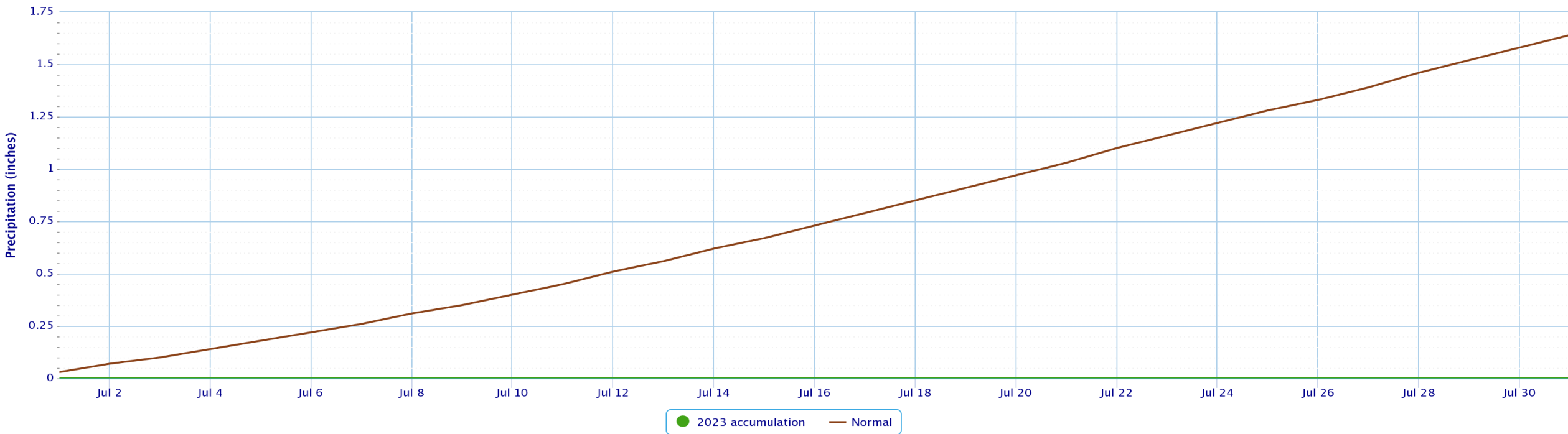
The July 2023 average temperature for Albuquerque was 85.6°, which was 6.7° above the normal of 78.9°. The average maximum temperature for the month was 99.0°. This was 7.8° above the normal average maximum temperature of 91.2°. The average minimum temperature for the month was 72.3°. This was 5.8° above the normal average minimum temperature of 66.5°. **This ranked as the warmest July on record.**



Precipitation: Trace

Accumulated Precipitation – ALBUQUERQUE INTL AP, NM

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



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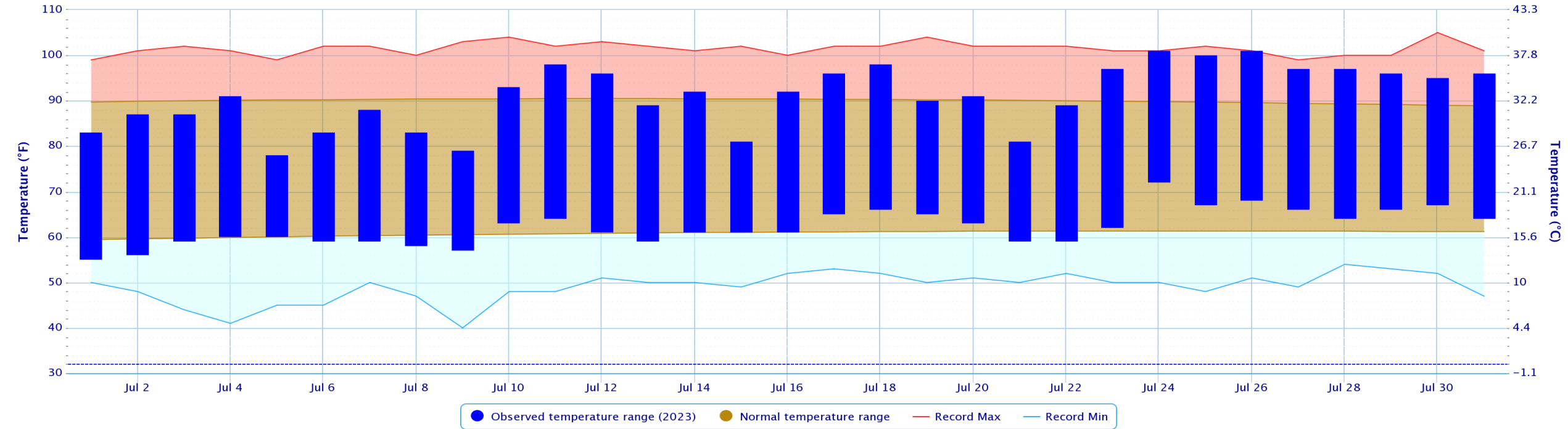
The July 2023 precipitation for Albuquerque was a Trace, which was 1.64” below the normal of 1.64”. This ranked as the driest July on record.



Average Temperature: 76.6°

Daily Temperature Data – CLAYTON MUNICIPAL AIR PARK, NM

Period of Record – 1896-02-01 to 2023-08-11. Normals period: 1991-2020. Click and drag to zoom chart.



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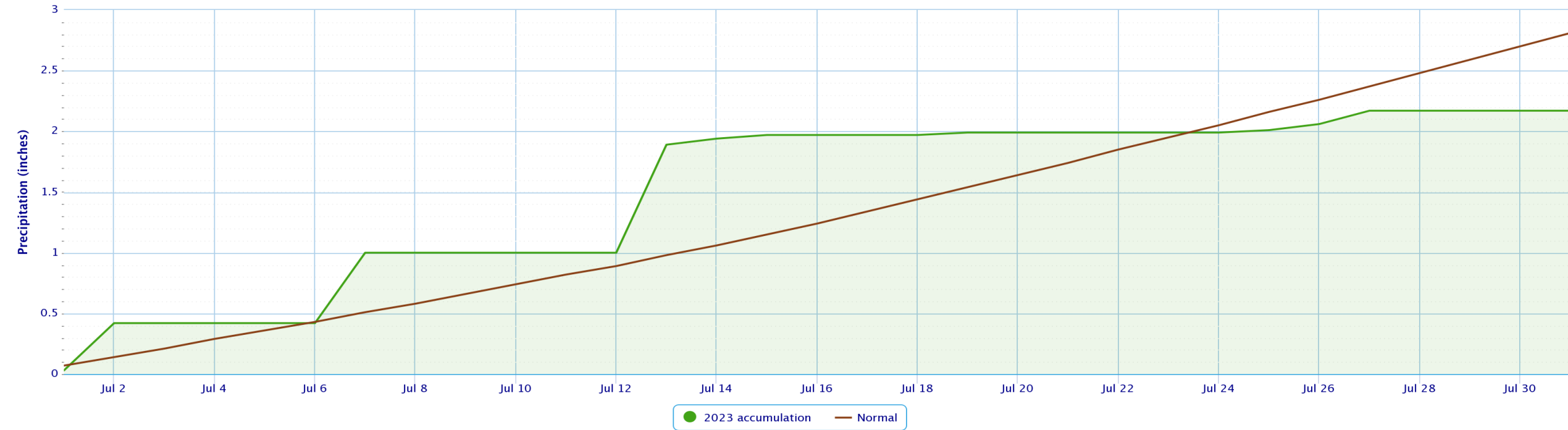
The July 2023 average temperature for Clayton was 76.6°, which was 1.2° above the normal of 75.4°. The average maximum temperature for the month was 91.1°. This was 1.1° above the normal average maximum temperature of 90.0°. The average minimum temperature for the month was 62.1°. This was 1.3° above the normal average minimum temperature of 60.8°. This ranked as the 20th warmest July on record.



Precipitation: 2.17"

Accumulated Precipitation – CLAYTON MUNICIPAL AIR PARK, NM

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



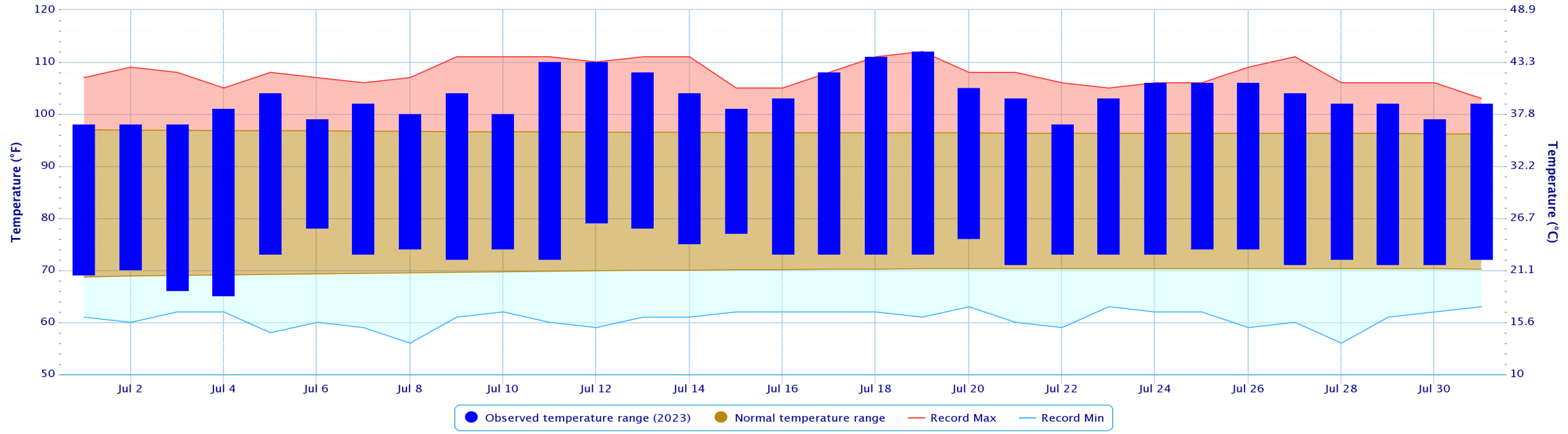
The July 2023 precipitation for Clayton was 2.17", which was 0.64" below the normal of 2.81". This ranked as the 53rd driest July on record.



Average Temperature: 88.1°

Daily Temperature Data – ROSWELL INDUSTRIAL AIR PARK, NM

Period of Record – 1946-12-01 to 2023-08-11. Normals period: 1991-2020. Click and drag to zoom chart.



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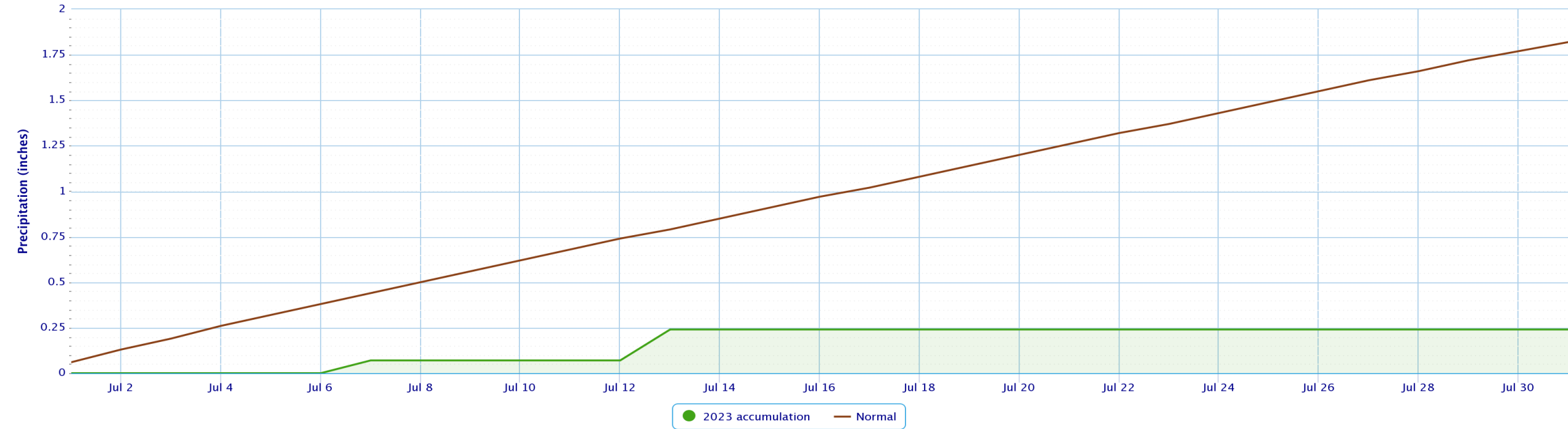
The July 2023 average temperature for Roswell was 88.1°, which was 4.9° above the normal of 83.2°. The average maximum temperature for the month was 103.5°. This was 7.0° above the average maximum temperature of 96.5°. The average minimum temperature for the month was 72.8°. This was 2.9° above the normal average minimum temperature of 69.9°. **This ranked as the warmest July on record.**



Precipitation: 0.24"

Accumulated Precipitation – ROSWELL INDUSTRIAL AIR PARK, NM

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



The July 2023 precipitation for Roswell was 0.24", which was 1.58" below the normal of 1.82". This ranked as the 5th driest July on record.



Event Type	Date	County/Zone	Magnitude	Type	Event Narrative
Hail	7/5/2023	COLFAX	1.75	Golf Ball	A supercell moving southeast produced quarter to golf ball sized hail in Springer.
Hail	7/5/2023	MORA	1.75	Golf Ball	Golf ball sized hail fell with a rapidly developing supercell between Wagon Mound and Roy.
Hail	7/5/2023	HARDING	1.75	Golf Ball	Quarter to golf ball size hail was reported.
Thunderstorm Wind	7/5/2023	QUAY	50		
Hail	7/5/2023	SAN MIGUEL	2.75	Baseball	Hail fell along State Route 39. Report recieved via Twitter.
Thunderstorm Wind	7/5/2023	QUAY	64		Two strong wind gusts of 70 and 74 mph occurred at the Tucumcari Municipal Airport as a supercell moved southeast through the town.
Thunderstorm Wind	7/7/2023	ROOSEVELT	51		The Melrose AWOS station measured a 59 mph thunderstorm wind gust.
Hail	7/7/2023	CHAVES	1	Quarter	A thunderstorm moving southeast produced quarter sized hail at the Roswell Correctional Facility.
Hail	7/7/2023	UNION	1	Quarter	Quarter sized hail fell in Clayton as a supercell moved southeast into the Texas and Oklahoma panhandles.
Thunderstorm Wind	7/7/2023	CURRY	57		The Clovis AWOS measured a 66 mph thunderstorm wind gust.
Thunderstorm Wind	7/7/2023	ROOSEVELT	56		An estimated 65 mph thunderstorm wind gust in Milnesand. The combination of winds and hail produced white out conditions.
Thunderstorm Wind	7/7/2023	GUADALUPE	58		A mesonet station just southeast of Vaughn reported a 67 mph wind gust from a dry thunderstorm.
Hail	7/7/2023	ROOSEVELT	0.75	Penny	The fire dept near Milnesand reported penny size hail producing white out conditions in combination with severe thunderstorm wind gusts.
Hail	7/5/2023	HARDING	1	Quarter	Quarter size hail was reported before larger golf ball size hail was observed.
Flash Flood	7/9/2023	LINCOLN			Emergency management reported trees and rocks were carried by running water into the intersection of Gavilan Canyon Rd and Warrior Dr.
Thunderstorm Wind	7/13/2023	LINCOLN	54		A mesonet station within the White Sands Missile Range measured a thunderstorm wind gust of 62 mph.
Hail	7/13/2023	UNION	1	Quarter	
Hail	7/13/2023	COLFAX	1.75	Golf Ball	Long lasting hail with strong winds and numerous tree branches downed. Large hail broke a plate glass window in Springer.
Hail	7/14/2023	COLFAX	1.75	Golf Ball	
Hail	7/14/2023	COLFAX	1	Quarter	Dime to quarter size hail fell near the Maxwell National Wildlife Refuge.
Hail	7/15/2023	SAN MIGUEL	0.88	Nickel	
Hail	7/15/2023	SAN MIGUEL	1.75	Golf Ball	Nickel to golf ball size hail. There was one inch hail accumulation.
Hail	7/15/2023	MORA	1	Quarter	Quarter size hail reported in Wagon Mound on the edge of a passing thunderstorm.
Thunderstorm Wind	7/15/2023	SOCORRO	56		A mesonet station within the White Sands Missile Range measured a 64 mph thunderstorm wind gust.
Thunderstorm Wind	7/15/2023	SOCORRO	56		A mesonet station within the White Sands Missile Range measured a 65 mph thunderstorm wind gust.
Thunderstorm Wind	7/15/2023	LINCOLN	55		A mesonet station within the White Sands Missile Range measured a 63 mph thunderstorm wind gust.
Hail	7/15/2023	COLFAX	1	Quarter	
Hail	7/15/2023	MORA	1.25	Half Dollar	Half-dollar size hail reported alongside larger but shorter duration 2.75 inch hail. Hail persisted until approximately 5:10 pm MDT before quitting.
Hail	7/15/2023	MORA	2.75	Baseball	Hail broke three skylights, damage is an estimate.








*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	Magnitude	Type	Event Narrative
Hail	7/15/2023	COLFAX	1.75	Golf Ball	Golf ball sized hail reported on U.S. Highway 64 about ten miles southwest of Raton.
Hail	7/15/2023	COLFAX	1.75	Golf Ball	Two glass windows were broken at a residence. Neighbor also reported five cars being dented by the hail. Damage is an estimate.
Tornado	7/15/2023	COLFAX			A cone tornado was reported by storm chasers just southeast of the intersection of NM 39 and U.S. Highway 56.
Hail	7/15/2023	UNION	1	Quarter	
Flash Flood	7/15/2023	GUADALUPE			A storm chaser reported flooding on secondary roads near I-40.
Hail	7/15/2023	HARDING	2.5	Tennis Ball	
Hail	7/15/2023	SAN MIGUEL	1.75	Golf Ball	
Thunderstorm Wind	7/19/2023	UNION	61		A COOP observer estimated a 70 mph wind gust along with some pea size hail. No damage was reported.
Thunderstorm Wind	7/19/2023	DE BACA	51		The Fort Sumner Airport measured a peak thunderstorm outflow wind gust of 59 mph.
Flash Flood	7/21/2023	MORA			Heavy rain caused flash flooding within the Hermits Peak Calf Canyon burn scar along state highway 94 at mile marker 15, closing the road.
Flash Flood	7/21/2023	MORA			Heavy rain caused flash flooding within the Hermits Peak Calf Canyon burn scar along state highway 434 at mile markers 4 and 5, closing the road.
Flash Flood	7/21/2023	MORA			A video shared on twitter showed fast moving flood waters carrying debris flowing behind a home along state highway 105 near Gascon.
Flash Flood	7/21/2023	SAN MIGUEL			Fast flowing water with hail and debris was flowing all across the property and beneath the home.
Flash Flood	7/21/2023	SAN MIGUEL			The Sapello River flooded and went out of its banks near the state highway 266 crossing.
Hail	7/21/2023	SAN MIGUEL	1.25	Half Dollar	
Hail	7/21/2023	SAN MIGUEL	1	Quarter	
Flash Flood	7/21/2023	COLFAX			Ponil road near intersection of state highway 204 flooded under three feet of water. Debris, including mud and rocks, made the road impassable.
Thunderstorm Wind	7/21/2023	ROOSEVELT	60		The Melrose Gunnery weather station measured a peak thunderstorm wind gust of 69 mph.
Hail	7/22/2023	HARDING	0.88	Nickel	
Thunderstorm Wind	7/22/2023	HARDING	50		A mesonet station near Mills measured a thunderstorm wind gust of 58 mph.
Thunderstorm Wind	7/23/2023	UNION	55		A severe wind gust originating from a dying thunderstorm blew down their shed and broke off tree branches up to 6 inches in diameter.
Thunderstorm Wind	7/24/2023	TORRANCE	65		A thunderstorm downburst lifted a large solar panel unit and its concrete pillars out of the ground and tossed it several feet away.
Hail	7/15/2023	SAN MIGUEL	0.88	Nickel	
Hail	7/7/2023	UNION	1.75	Golf Ball	
Thunderstorm Wind	7/26/2023	SAN JUAN	52		
High Wind	7/26/2023	WEST CENTRAL HIGHLANDS	50		A decaying shower produced a dry microburst wind gust at the Grants airport.

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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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