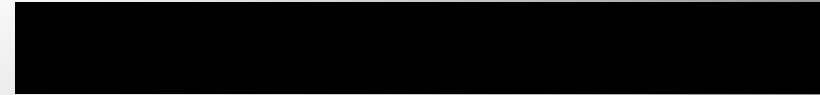
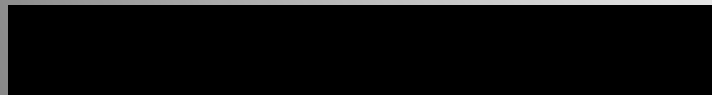




Synopsis

September 2023 was the hottest September on record for New Mexico. Despite a few rounds of precipitation, drought conditions continued to deteriorate at the end of an unusually hot and dry monsoon season. A strong storm around the middle of the month dropped large hail and over an inch of rain in the Albuquerque metro area which led to flash flooding. A severe event at the month brought large hail and damaging wind gusts to portions of eastern New Mexico including Roswell.

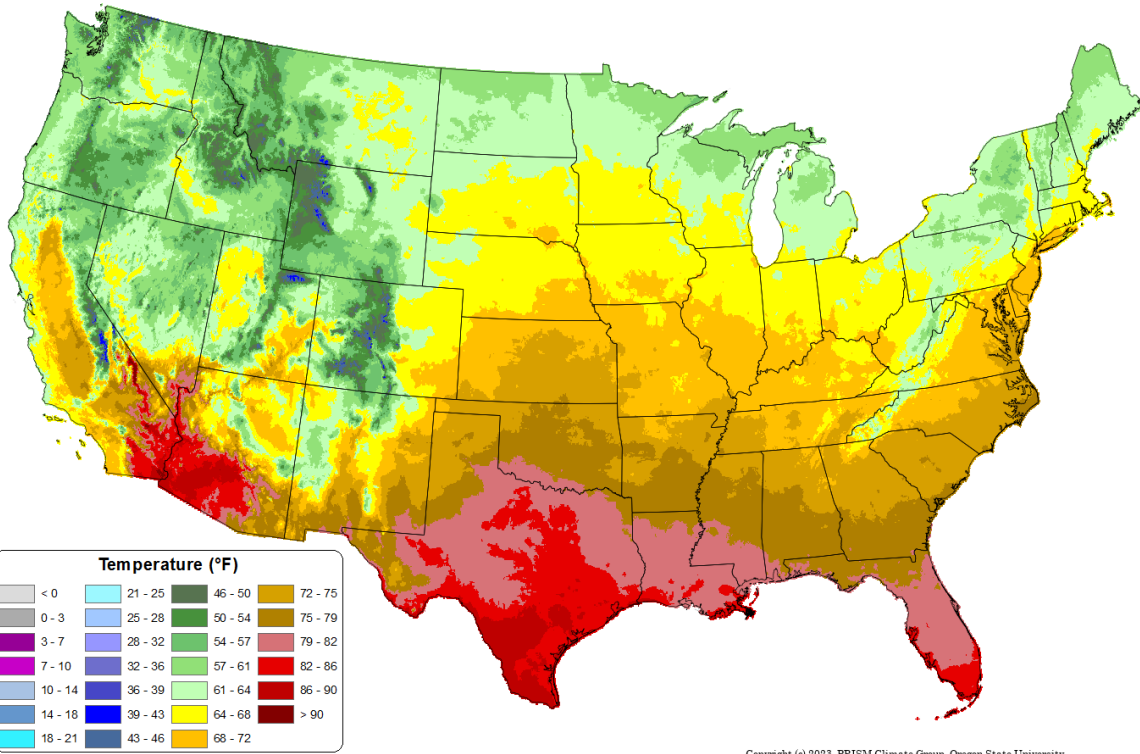
We need your photos! If you saw interesting weather during September, send your pictures to sr-abq.webmaster@noaa.gov or tag us on social media @NWSAlbuquerque on Facebook or X to be featured here in the monthly climate summary.





Temperature

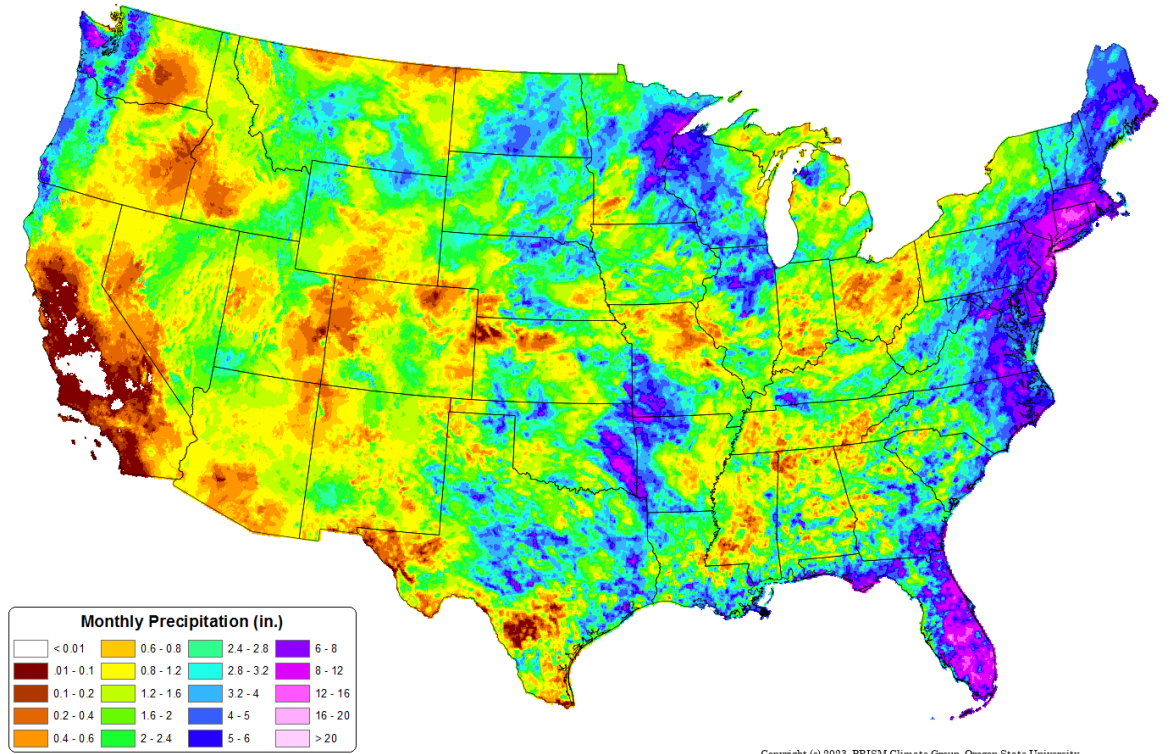
Average Daily Mean Temperature: Sep 2023
Period ending 7 AM EST 30 Sep 2023
(Map created 02 Oct 2023)



Copyright (c) 2023, PRISM Climate Group, Oregon State University

Precipitation

Total Precipitation: Sep 2023
Period ending 30 Sep 2023
(Map created 02 Oct 2023)

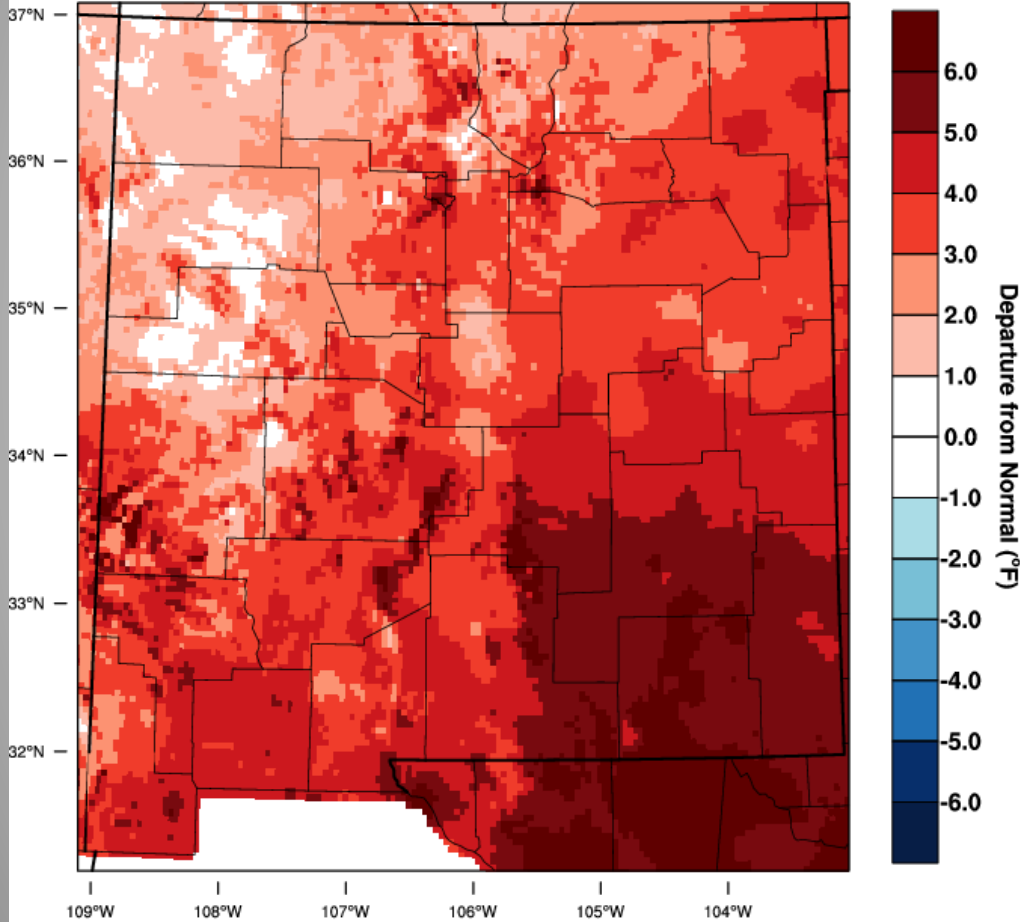


Copyright (c) 2023, PRISM Climate Group, Oregon State University



Anomaly

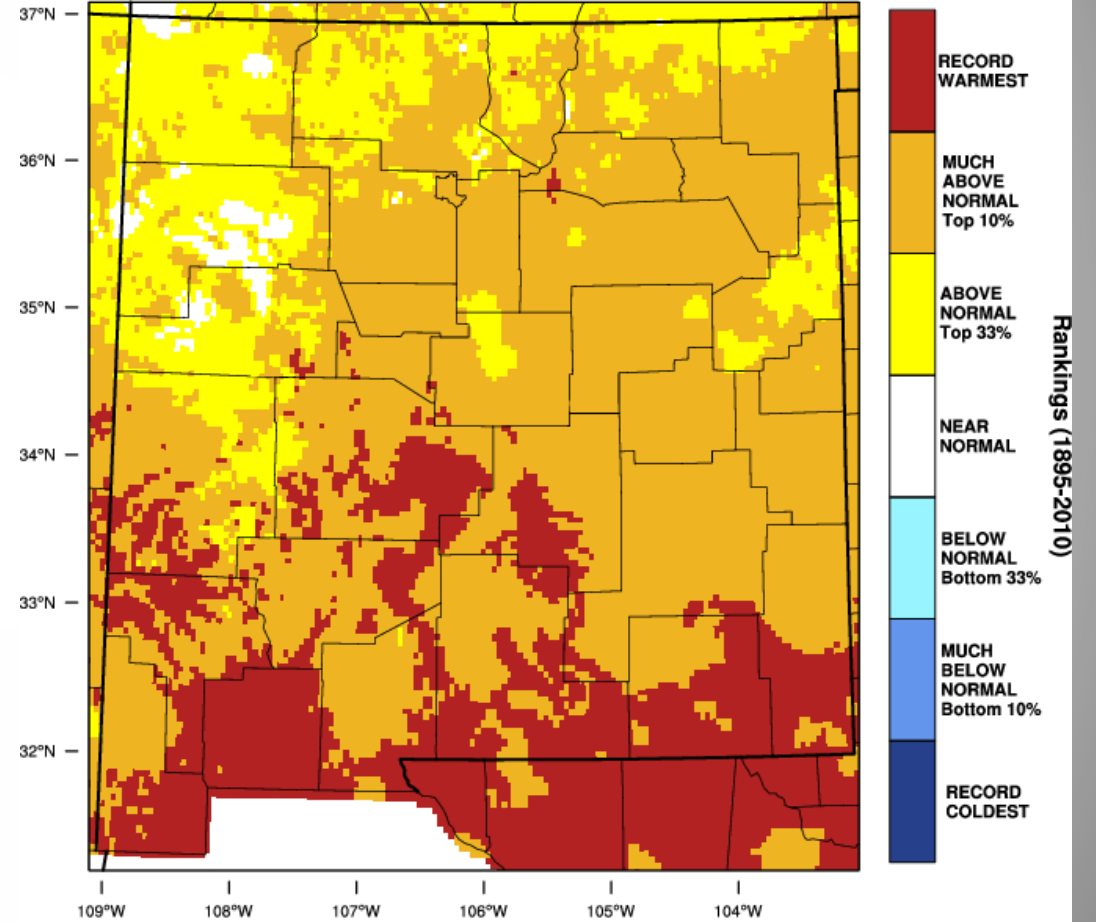
September 2023 Departure from 1981-2010 Normal



WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 2 OCT 2023

Percentile

September 2023 Percentile

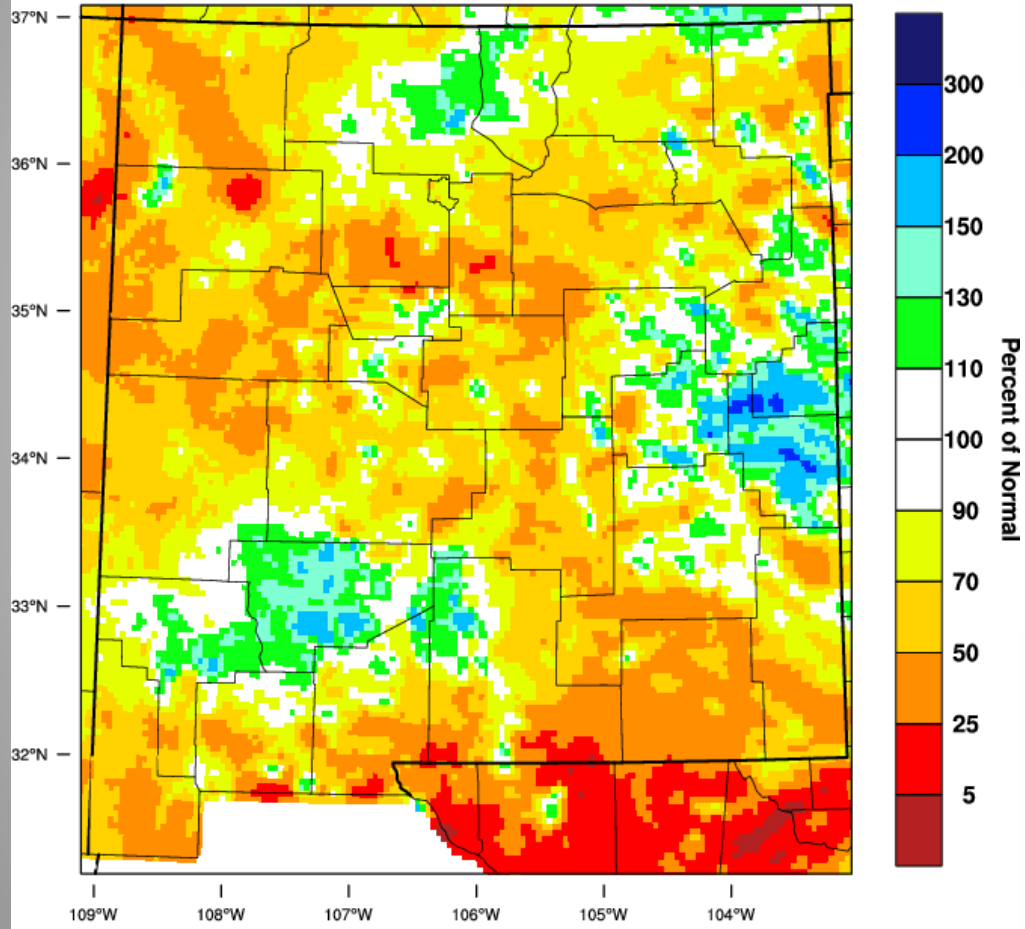


WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 2 OCT 2023



Anomaly

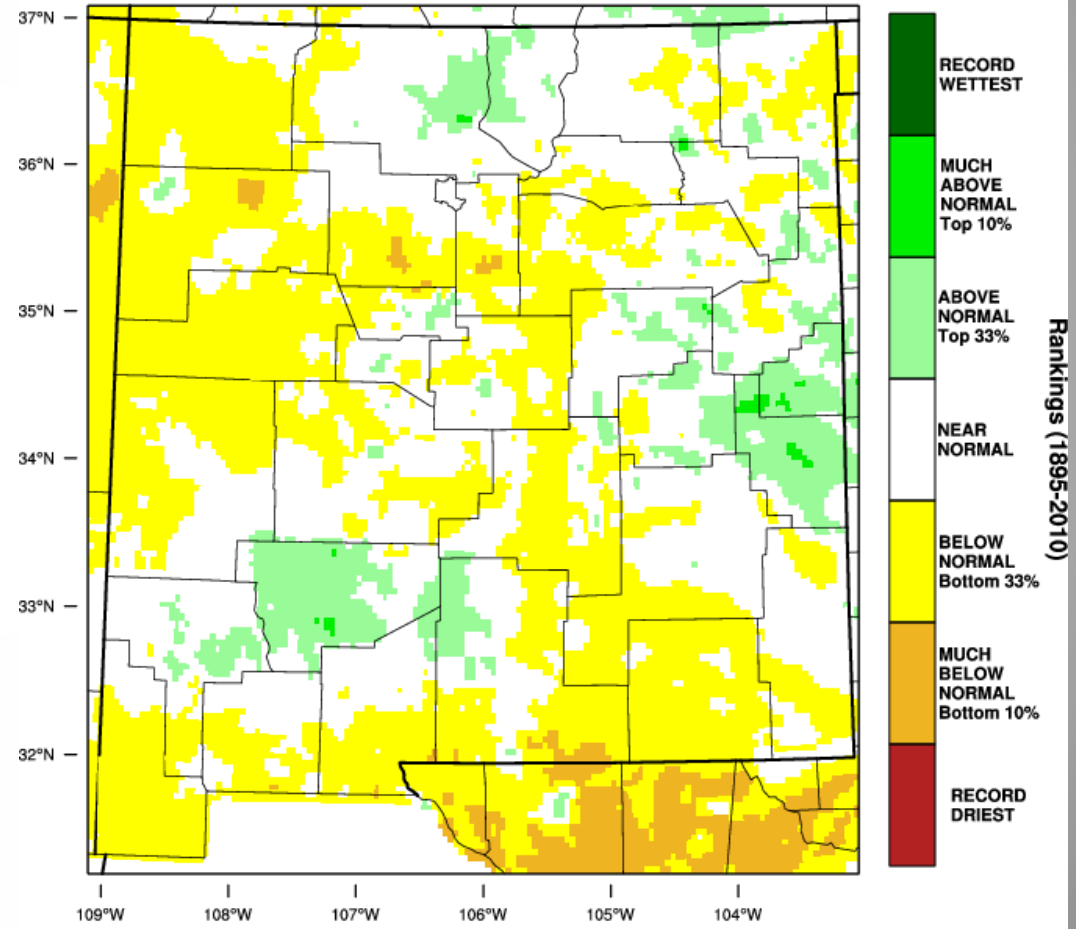
September 2023 Percent of 1981-2010 Normal



WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 2 OCT 2023

Percentile

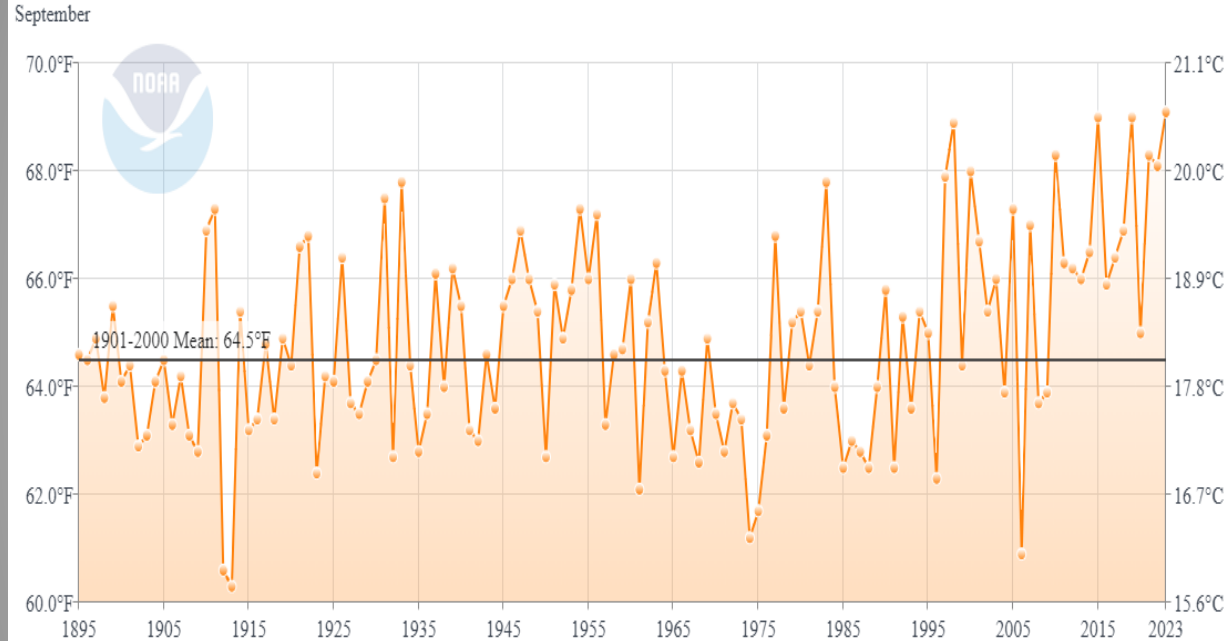
September 2023 Percentile



WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 2 OCT 2023

Temperature

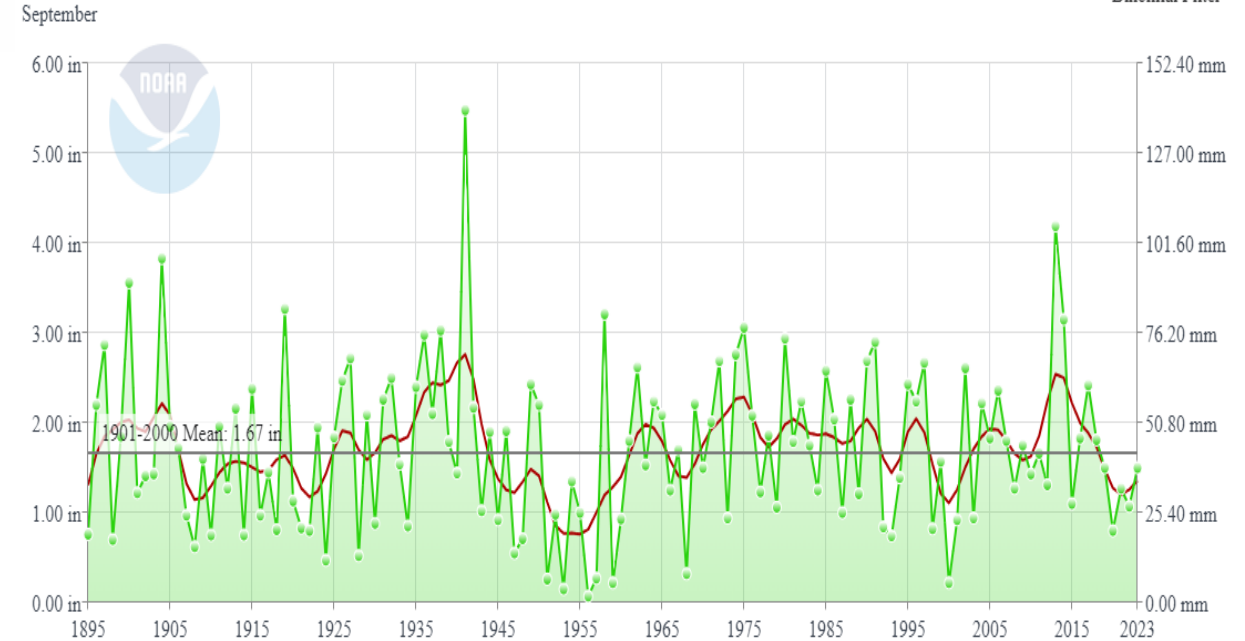
New Mexico Average Temperature



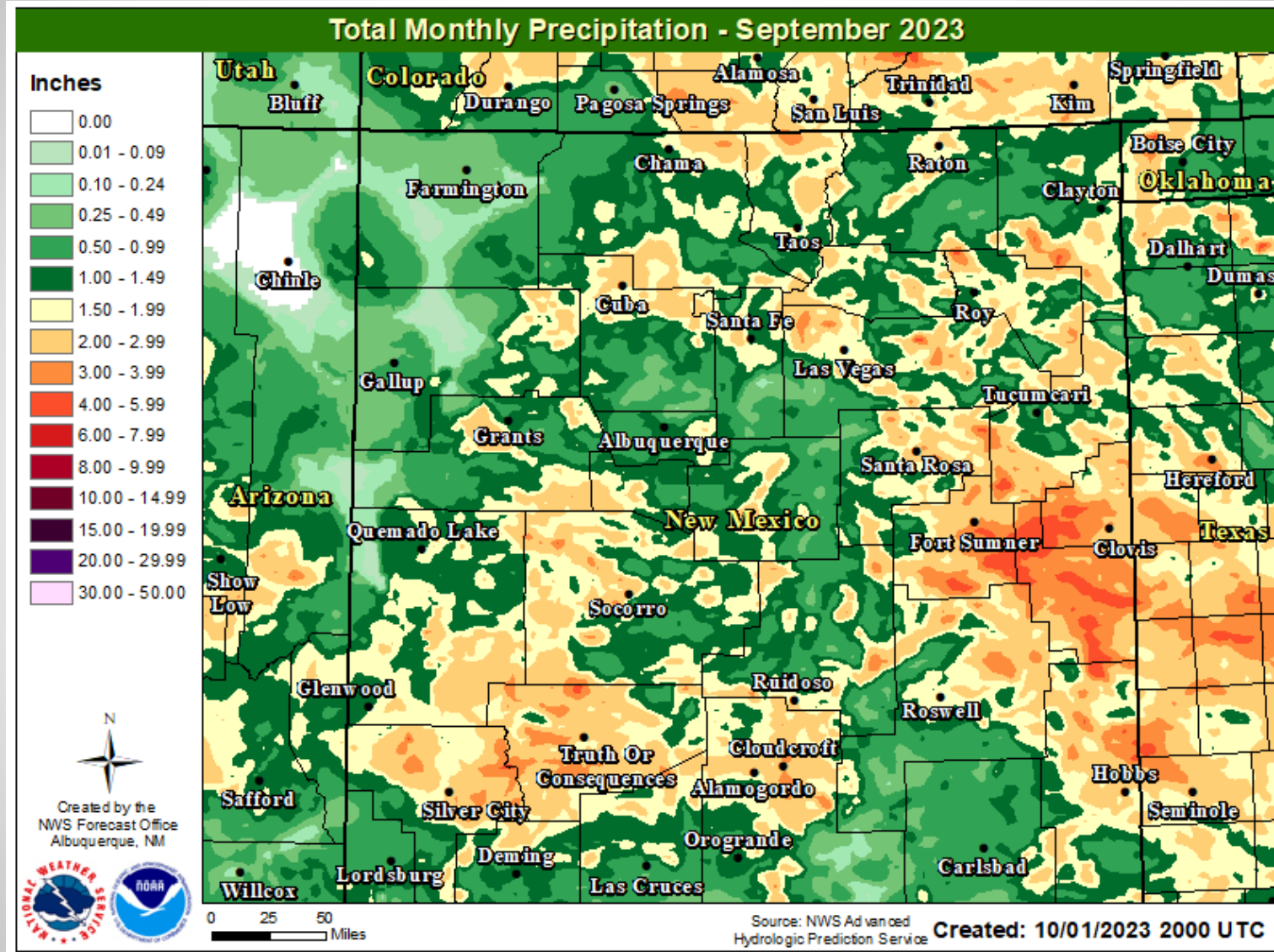
The September 2023 average statewide temperature was 69.1°, which was 4.6° above the long-term normal of 64.8° (1895-2022). This ranked as the warmest September on record.

Precipitation

New Mexico Precipitation



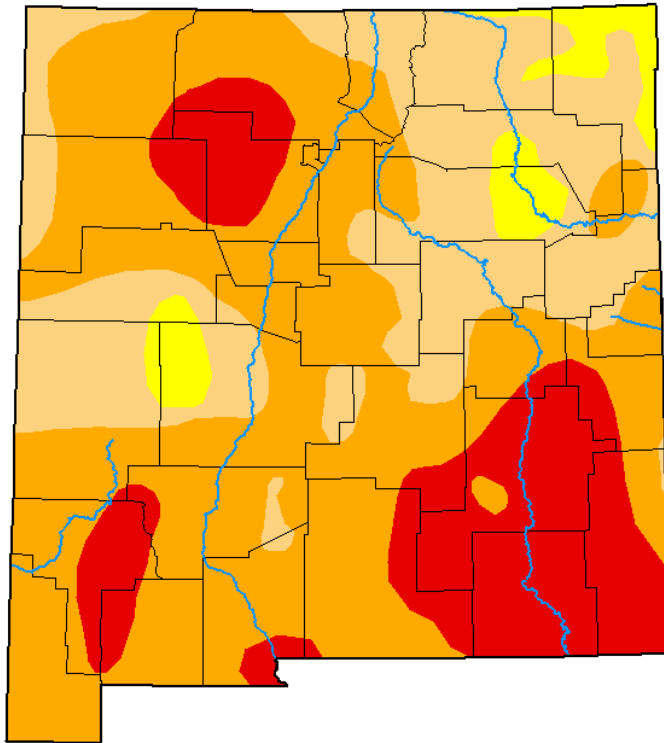
The September 2023 average statewide precipitation was 1.50", which was 0.17" below the long-term normal of 1.71" (1895-2022). This ranked as the 57th driest September on record.



Here is a detailed image of the September 2023 precipitation.



U.S. Drought Monitor New Mexico



September 5, 2023
(Released Thursday, Sep. 7, 2023)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	95.45	68.72	19.99	0.00
Last Week 08-29-2023	0.61	99.39	90.24	57.95	14.90	0.00
3 Months Ago 06-06-2023	51.96	48.04	28.16	10.62	0.00	0.00
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 09-06-2022	0.91	99.09	87.78	58.35	9.17	0.00

Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme 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>

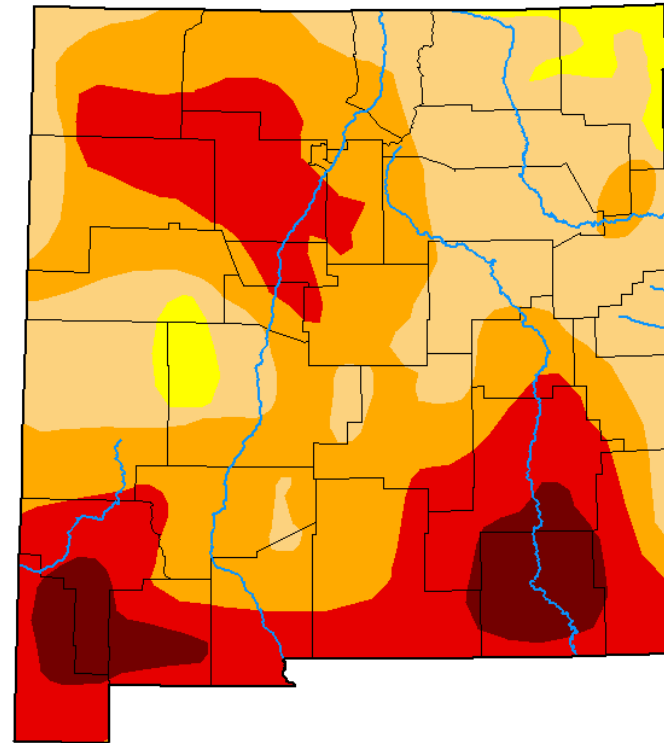
Author:

Richard Tinker
CPC/NOAA/NWS/NCEP



droughtmonitor.unl.edu

U.S. Drought Monitor New Mexico



September 26, 2023
(Released Thursday, Sep. 28, 2023)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	96.87	67.52	32.31	6.85
Last Week 09-19-2023	0.00	100.00	96.87	67.50	30.85	0.00
3 Months Ago 06-27-2023	55.92	44.08	18.89	6.93	0.00	0.00
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 09-27-2022	0.99	99.01	76.80	31.46	6.99	0.00

Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme 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>

Author:

Richard Heim
NCEI/NOAA

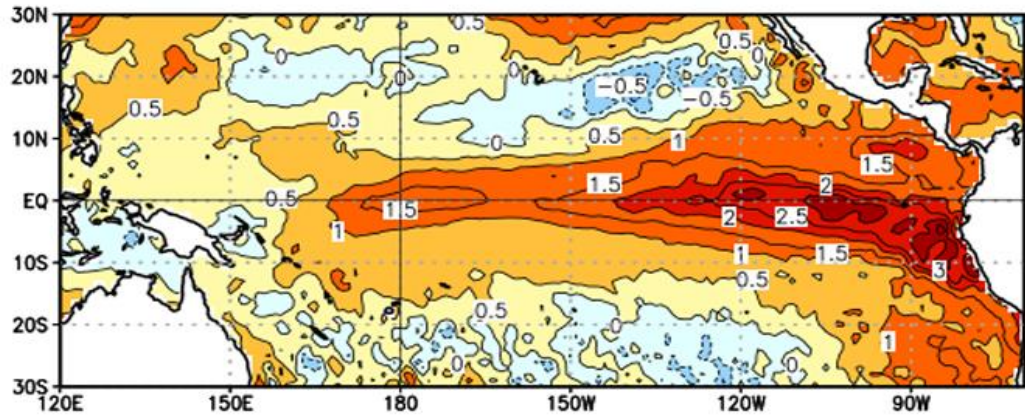


droughtmonitor.unl.edu

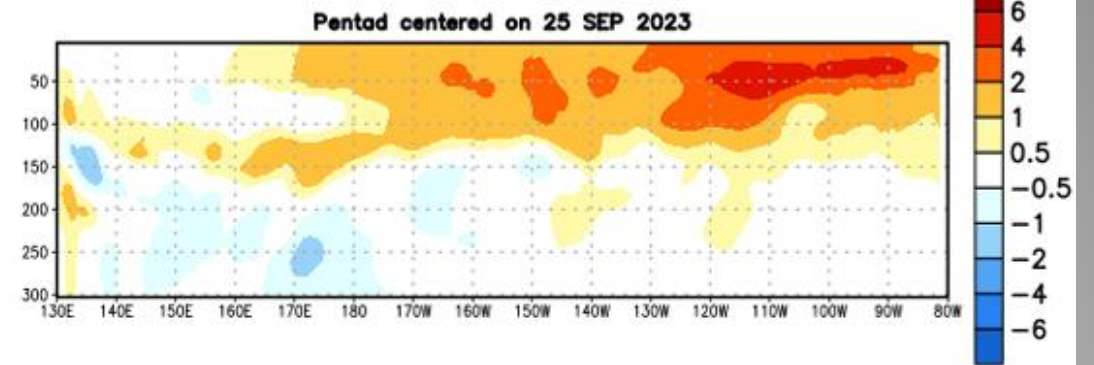
Drought conditions continued to deteriorate during the month of September with D4 developing in the southeast and southwest where 3-monthly precipitation was less than 50% of average. Drought conditions remained relatively stable in the northeast where precipitation was near to slightly below average this summer.



Average SST Anomalies
3 SEP 2023 – 30 SEP 2023

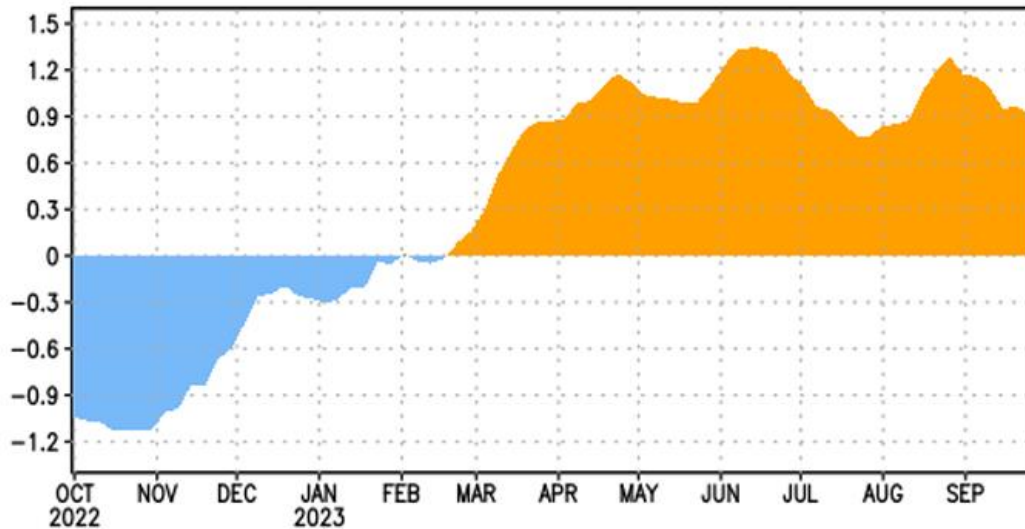


EQ. Subsurface Temperature Anomalies (deg C)



Most recent pentad analysis

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



Model Predictions of ENSO from Sep 2023

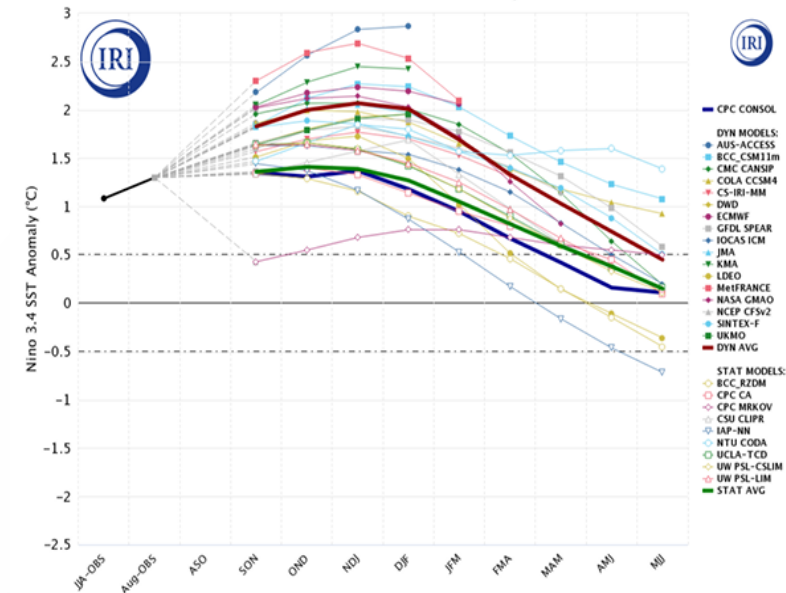
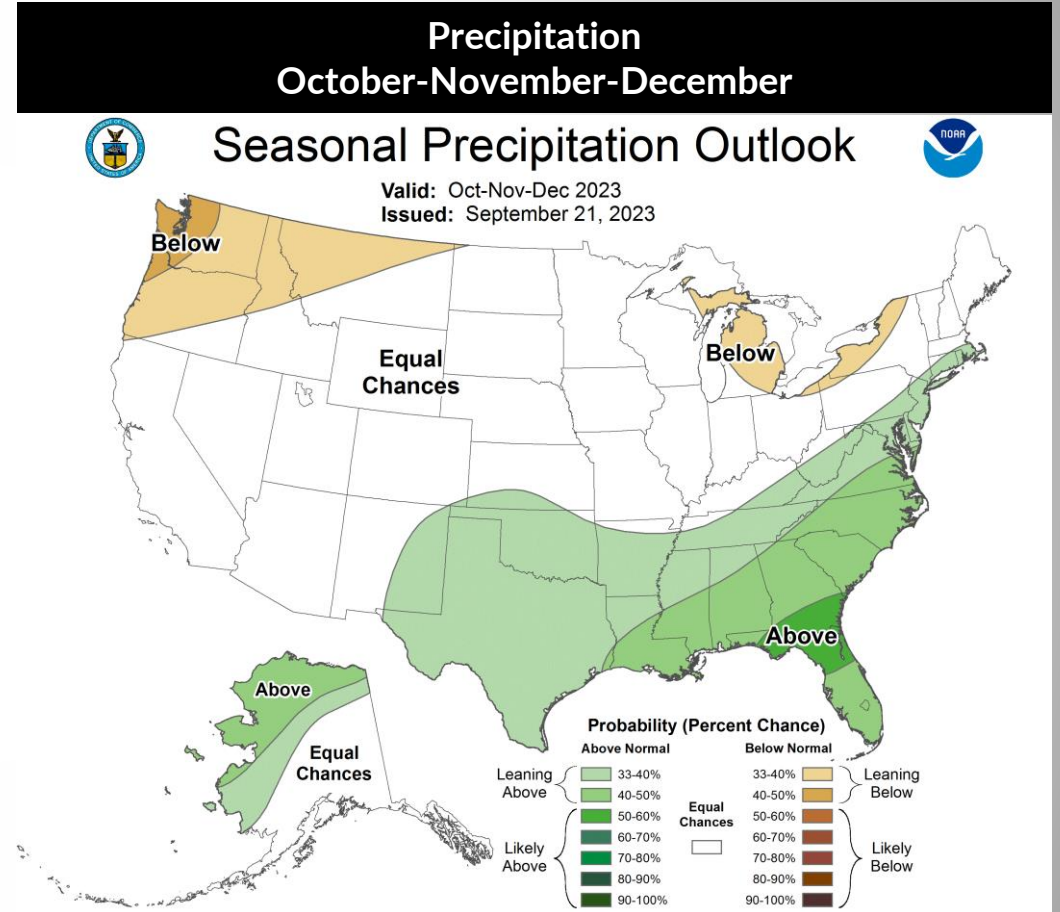
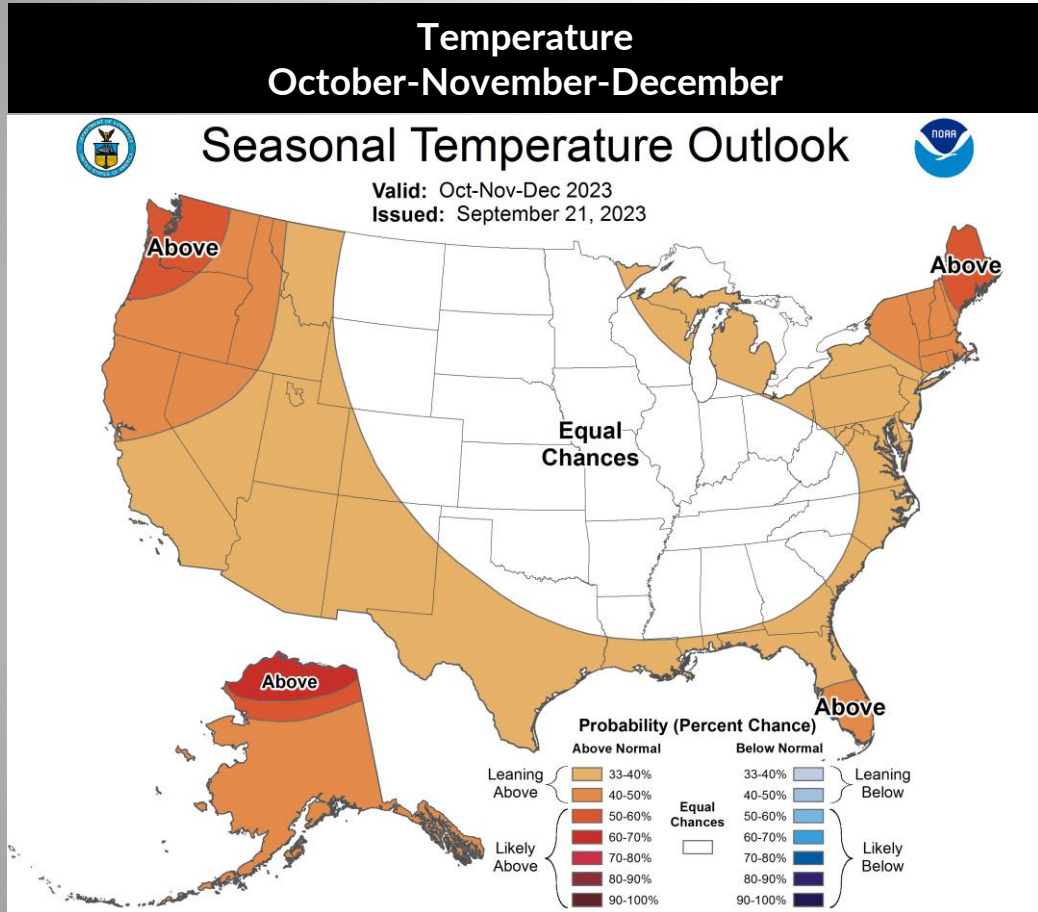


Figure provided by the International Research Institute (IRI) for Climate and Society (updated 20 September 2023).



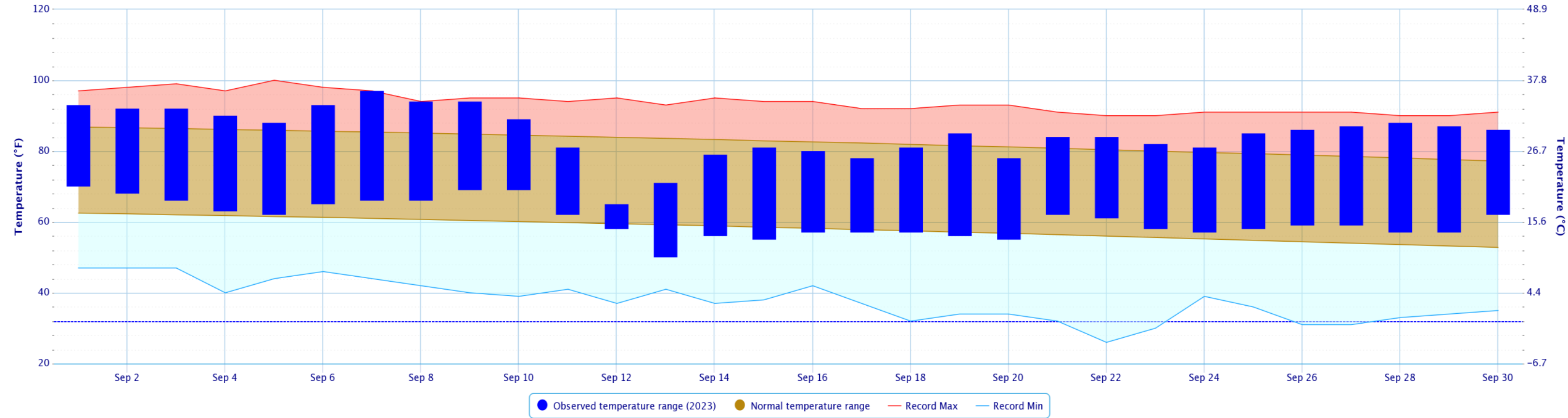
Above normal temperatures and near to slightly above normal precipitation are favored during the months of October through December.



Average Temperature: 72.8°

Daily Temperature Data - ALBUQUERQUE INTL AP, NM

Period of Record - 1891-12-01 to 2023-10-03. Normals period: 1991-2020. Click and drag to zoom chart.



Powered by ACIS

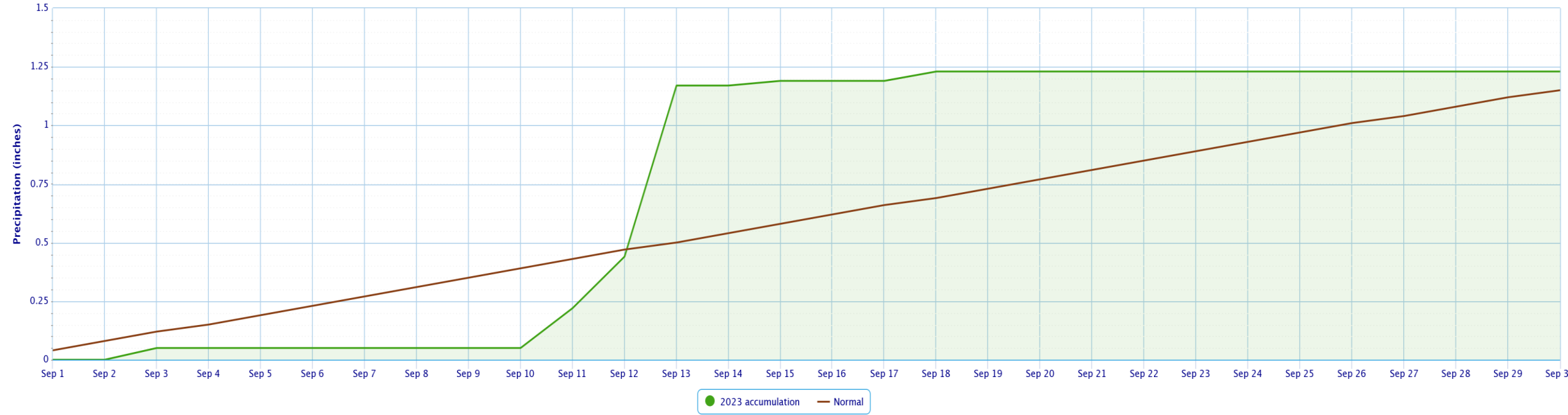
The September 2023 average temperature for Albuquerque was 72.8°, which was 2.5° above the normal of 70.3°. The average maximum temperature for the month was 85.0°. This was 2.5° above the normal average maximum temperature of 82.5°. The average minimum temperature for the month was 60.6°. This was 2.5° above the normal average minimum temperature of 58.1°. This ranked as the 10th warmest September on record.



Precipitation: 1.23"

Accumulated Precipitation - ALBUQUERQUE INTL AP, NM

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



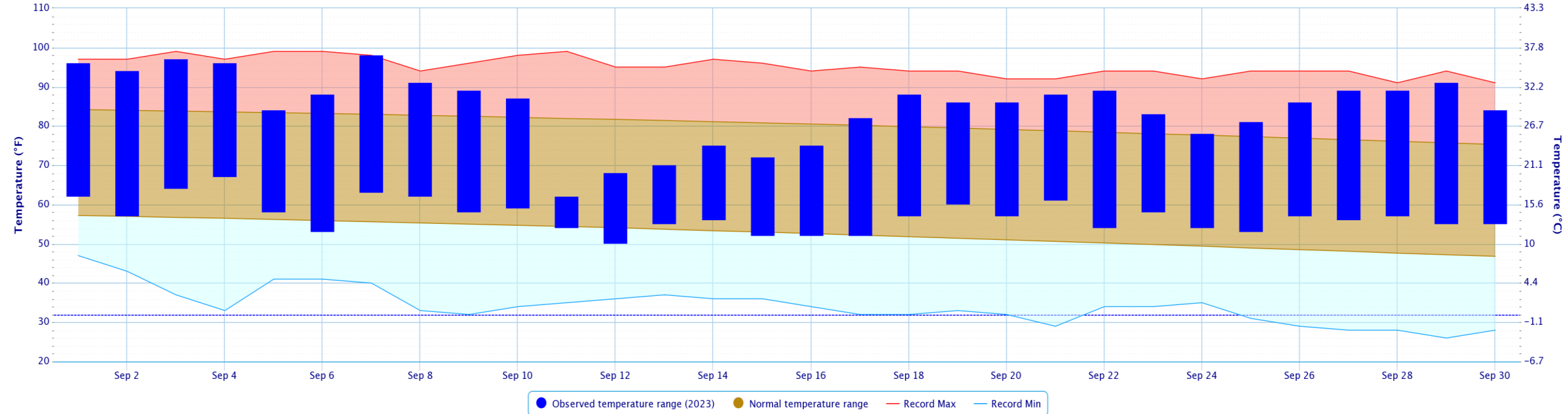
The September 2023 precipitation for Albuquerque was 1.23", which was 0.08" above the normal of 1.15". This ranked as the 35th wettest September on record.



Average Temperature: 70.8°

Daily Temperature Data - CLAYTON MUNICIPAL AIR PARK, NM

Period of Record - 1896-02-01 to 2023-10-03. Normals period: 1991-2020. Click and drag to zoom chart.



Powered by ACIS

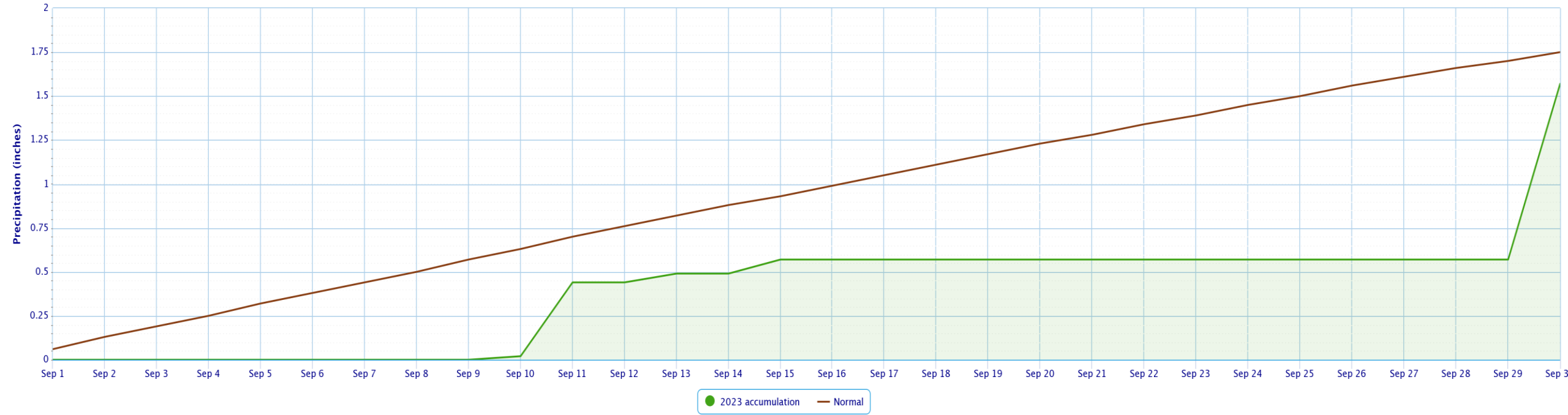
The September 2023 average temperature for Clayton was 70.8°, which was 4.4° above the normal of 66.4°. The average maximum temperature for the month was 84.7°. This was 4.4° above the normal average maximum temperature of 80.3°. The average minimum temperature for the month was 56.9°. This was 4.4° above the normal average minimum temperature of 52.5°. This ranked as the 6th warmest September on record.



Precipitation: 1.57"

Accumulated Precipitation – CLAYTON MUNICIPAL AIR PARK, NM

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



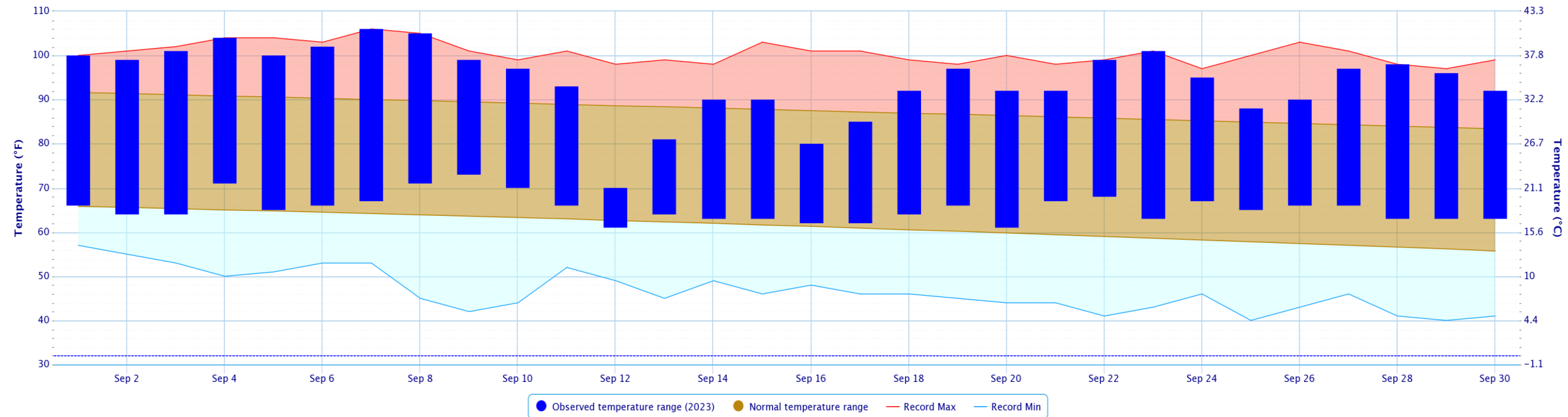
The September 2023 precipitation for Clayton was 1.57", which was 0.18" below the normal of 1.75". This ranked as the 67th driest September on record.



Average Temperature: 79.9°

Daily Temperature Data - ROSWELL INDUSTRIAL AIR PARK, NM

Period of Record - 1946-12-01 to 2023-10-03. Normals period: 1991-2020. Click and drag to zoom chart.



Powered by ACIS

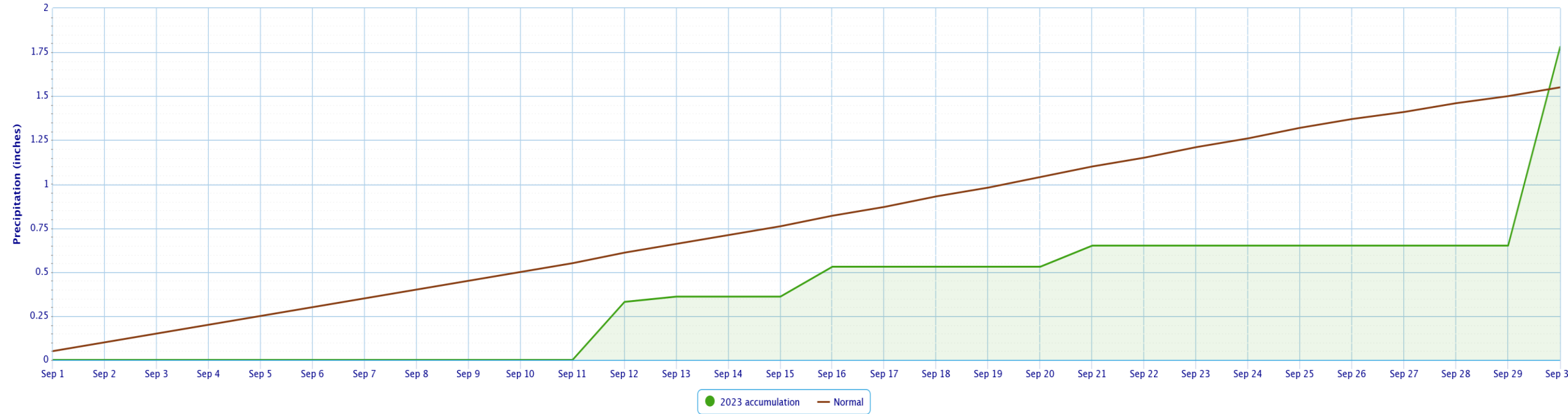
The September 2023 average temperature for Roswell was 79.9°, which was 5.5° above the normal of 74.4°. The average maximum temperature for the month was 94.4°. This was 6.8° above the average maximum temperature of 87.6°. The average minimum temperature for the month was 65.3°. This was 4.1° above the normal average minimum temperature of 61.2°. **This ranked as the warmest September on record.**



Precipitation: 1.78"

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 September 2023 precipitation for Roswell was 1.78", which was 0.23" above the normal of 1.55". This ranked as the 25th wettest September on record.



Event Type	Begin Date	County Name	Magnitude	Type	Event Narrative
Thunderstorm Wind	9/9/2023	QUAY	56 kt	Gust	
Thunderstorm Wind	9/9/2023	CHAVES	54 kt	Gust	Eight Mile Draw station.
Thunderstorm Wind	9/9/2023	CHAVES	50 kt	Gust	
Thunderstorm Wind	9/9/2023	ROOSEVELT	51 kt	Gust	
Thunderstorm Wind	9/9/2023	CURRY	50 kt	Gust	Cannon Air Force Base.
Hail	9/11/2023	LINCOLN	1.75"		Five vehicles were disabled on U.S. Highway 285 and one occupant sustained cuts to her arms.
Flash Flood	9/13/2023	BERNALILLO			Heavy rain caused a waterfall below the Petroglyph National Monument. A cul-de-sac near Taylor Ranch was inundated with hail and heavy rainfall.
Flash Flood	9/13/2023	BERNALILLO			I-25 SB near Avenida Caesar Chavez was flooded due to heavy rainfall. One vehicle was partially submerged.
Hail	9/15/2023	CHAVES	1"		No hail damage, except trees lost lots of leaves.
Hail	9/18/2023	SOCORRO	1"		
Hail	9/18/2023	BERNALILLO	1"		
Hail	9/18/2023	BERNALILLO	1"		
Hail	9/18/2023	BERNALILLO	0.75"		
Hail	9/26/2023	LINCOLN	0.88"		
Hail	9/26/2023	SOCORRO	0.88"		
Hail	9/30/2023	COLFAX	0.88"		Hail accumulation of 1 inch in the area resulted in two accidents on I-25.
Thunderstorm Wind	9/30/2023	CHAVES	53 kt	Gust	
Thunderstorm Wind	9/30/2023	QUAY	51 kt	Gust	

*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
-  NWS Albuquerque Facebook
-  @NWSAlbuquerque & #nmwx