



### Synopsis

September 2021 was warmer to much warmer than normal statewide! Precipitation was near to below normal in the west, and below to well below normal in central and eastern areas. While early and late September was wet, the bulk of the month was dry and very warm, including many record high temperatures.



Roswell, September 4, 2021  
Photo courtesy of Meg Tidmore



Roswell, September 4, 2021  
Photo courtesy of Meg Tidmore



Roswell, September 4, 2021  
Photo courtesy of Meg Tidmore

# September 2021 Climate Summary

## State Temperatures

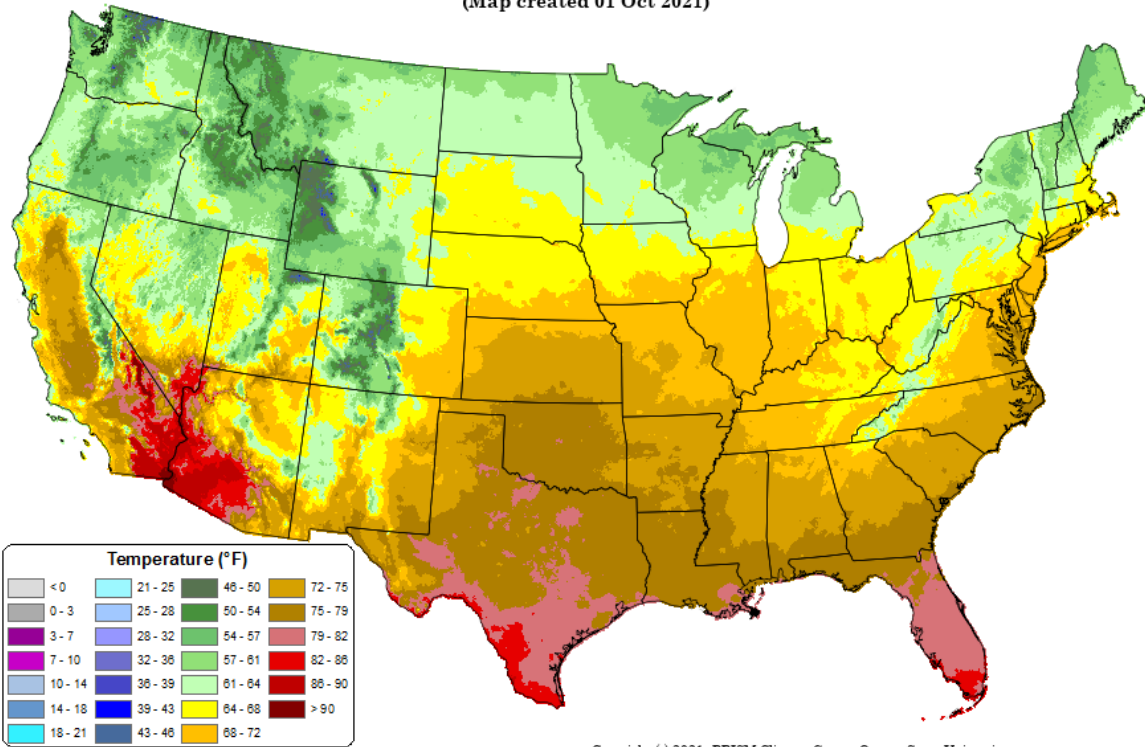
Weather Forecast Office  
Albuquerque, NM  
Issued January 9, 2022 4:33 PM MDT



### Actual

#### Average Daily Mean Temperature: 01 Sep 2021 - 30 Sep 2021

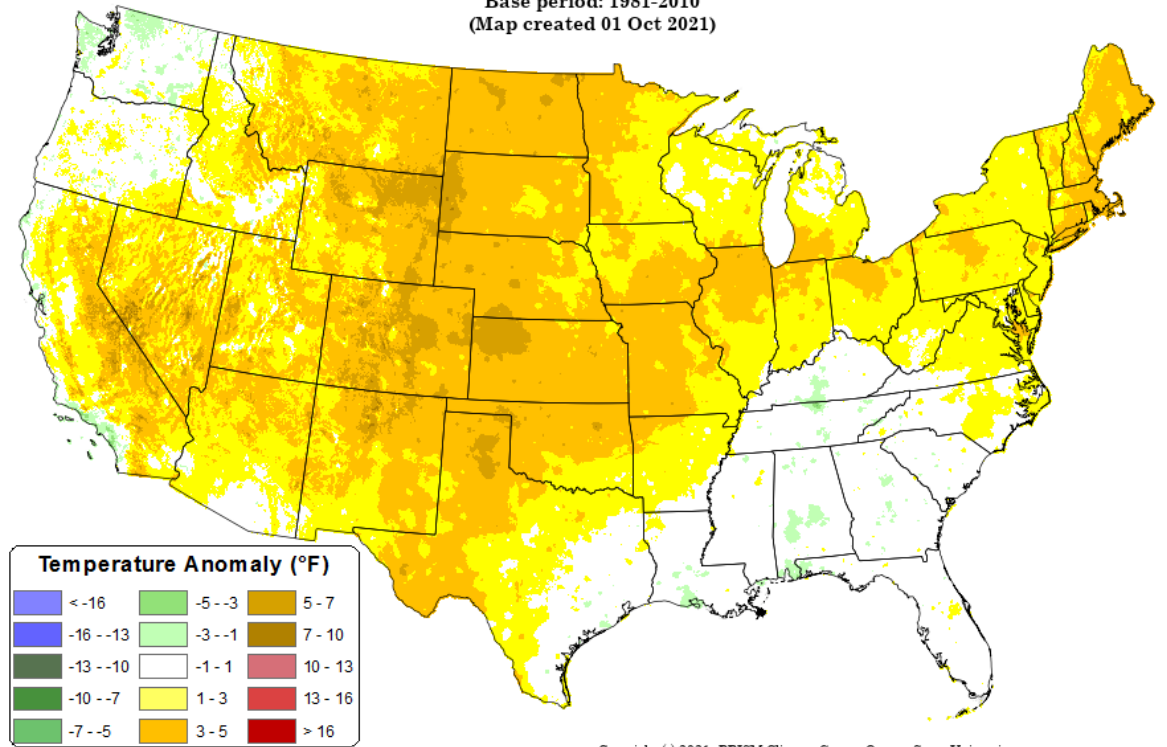
Period ending 7 AM EST 30 Sep 2021  
(Map created 01 Oct 2021)



### Anomaly

#### Daily Mean Temperature Anomaly: 01 Sep 2021 - 30 Sep 2021

Period ending 7 AM EST 30 Sep 2021  
Base period: 1981-2010  
(Map created 01 Oct 2021)



# September 2021 Climate Summary

## State Precipitation

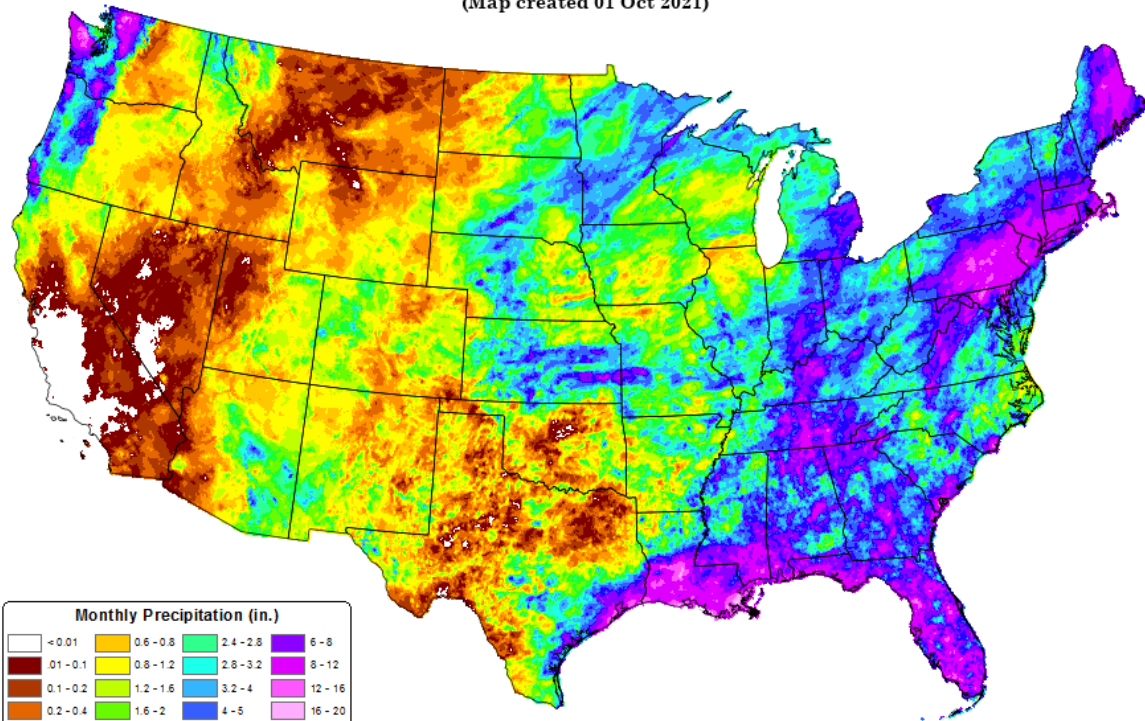
Weather Forecast Office  
Albuquerque, NM  
Issued January 9, 2022 4:33 PM MDT



### Actual

#### Total Precipitation: 01 Sep 2021 - 30 Sep 2021

Period ending 7 AM EST 30 Sep 2021  
(Map created 01 Oct 2021)

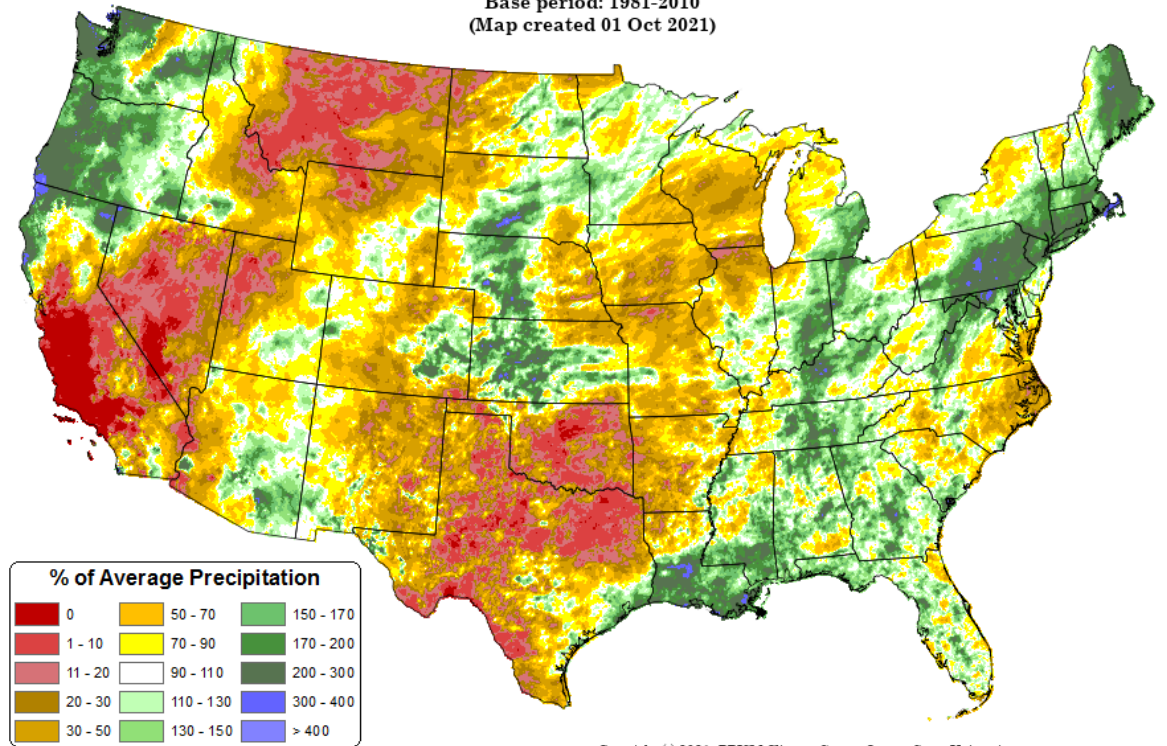


Copyright (c) 2021, PRISM Climate Group, Oregon State University

### Anomaly

#### Total Precipitation Anomaly: 01 Sep 2021 - 30 Sep 2021

Period ending 7 AM EST 30 Sep 2021  
Base period: 1981-2010  
(Map created 01 Oct 2021)



Copyright (c) 2021, PRISM Climate Group, Oregon State University

# September 2021 Climate Summary

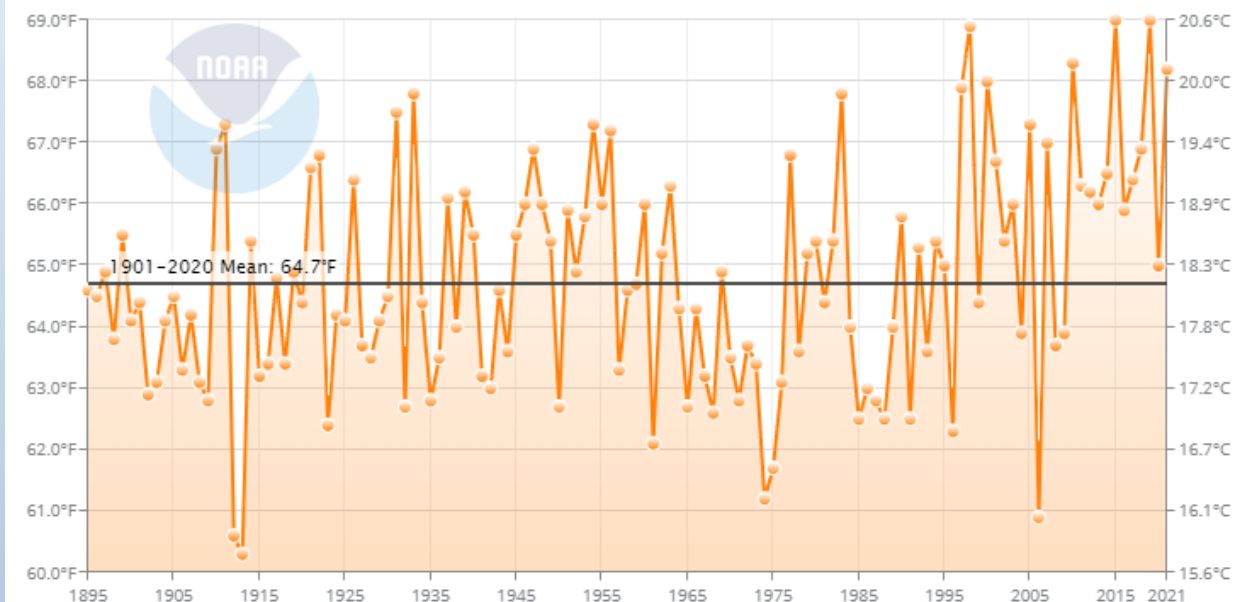
## Statewide Temperature & Precipitation Trends

Weather Forecast Office  
Albuquerque, NM  
Issued January 9, 2022 4:33 PM MDT



### Temperature

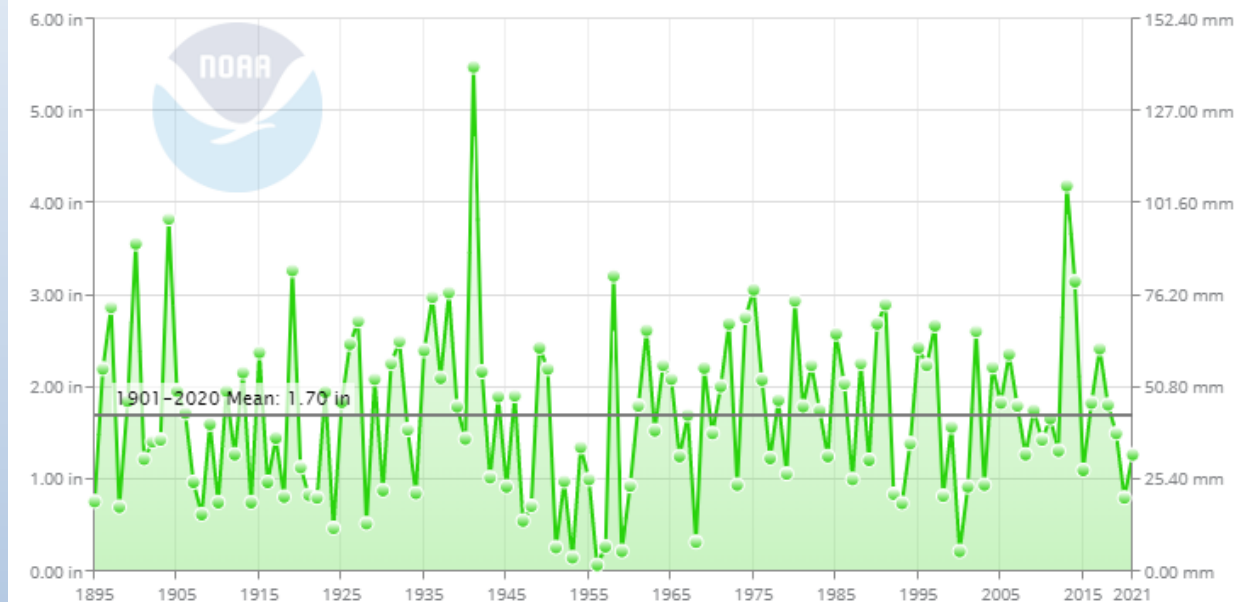
New Mexico Average Temperature  
September



The average statewide temperature was 68.2° which was 3.5° above the long-term normal of 64.7° (1901-2020). This ranks as the 5<sup>th</sup> warmest September on record for New Mexico.

### Precipitation

New Mexico Precipitation  
September

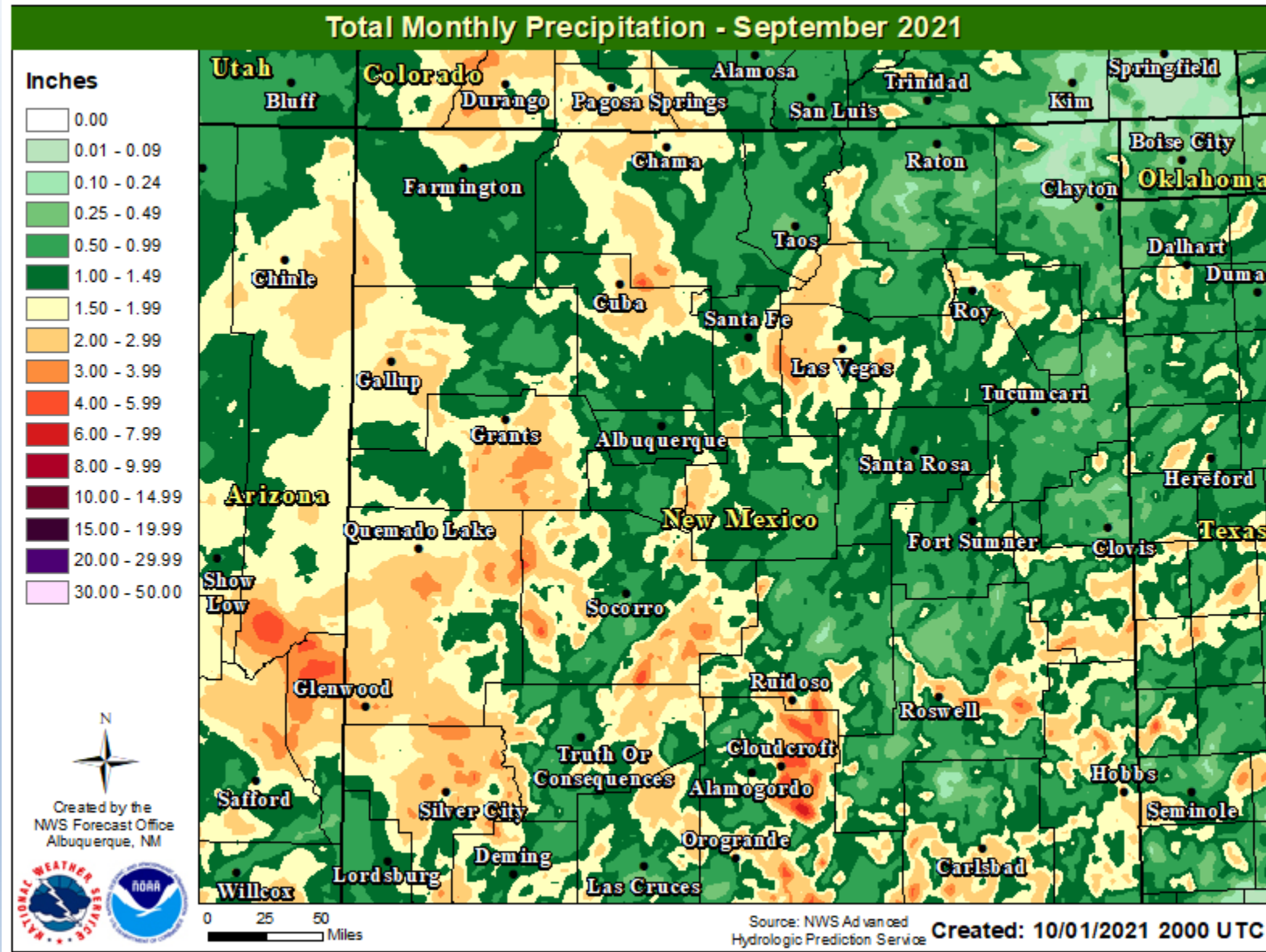


The average statewide precipitation was 1.27" which was 0.43" below the long-term normal of 1.70" (1901-2020). This ties as the 45<sup>th</sup> driest September on record for New Mexico.

# September 2021 Climate Summary

## Monthly Precipitation

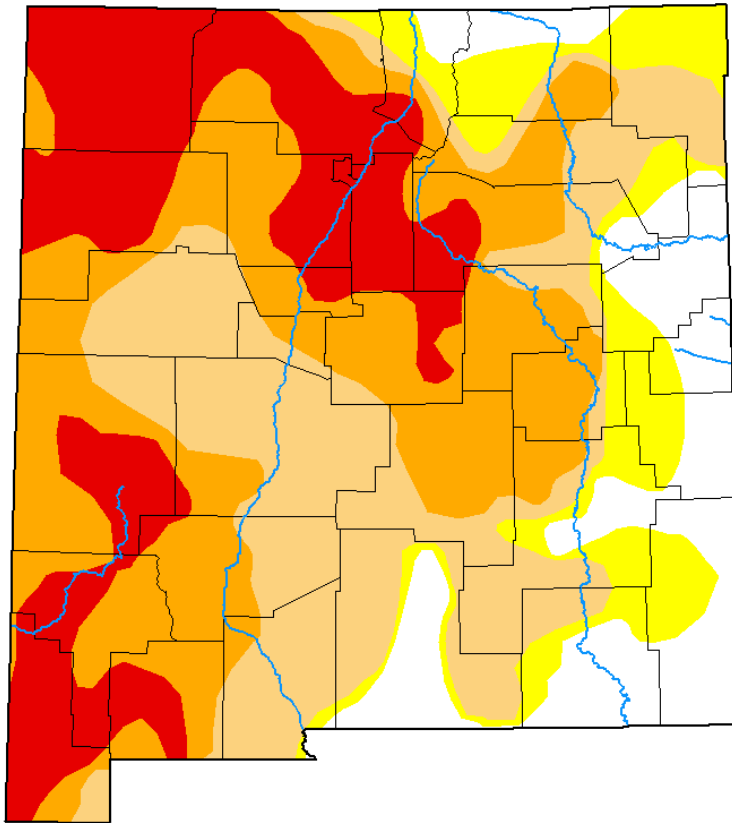
Weather Forecast Office  
Albuquerque, NM  
Issued January 9, 2022 4:33 PM MDT



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



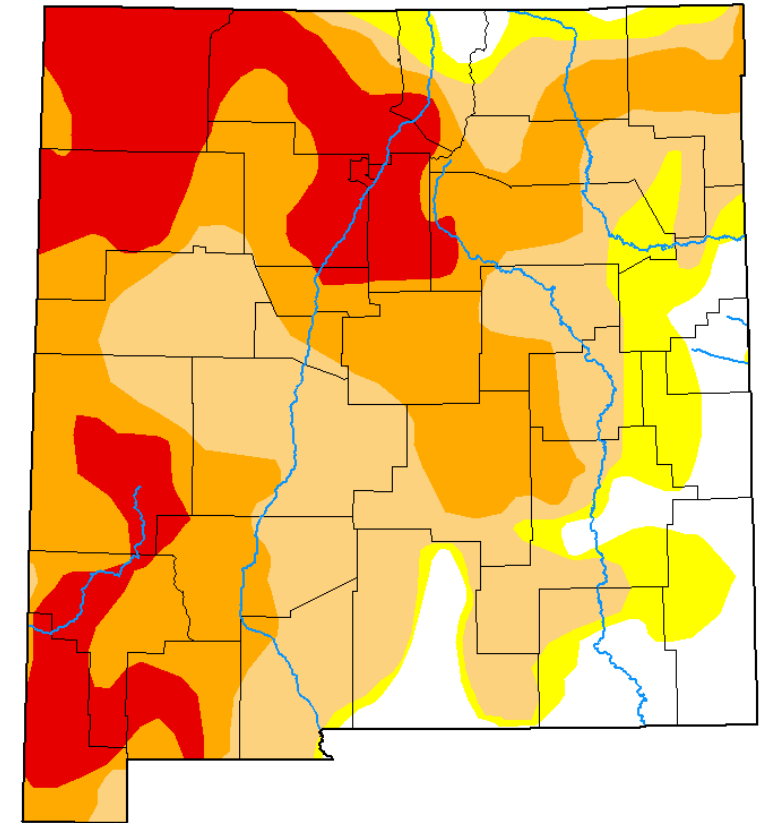
August 31, 2021



### Drought Classification

- None
- D0 (Abnormally Dry)
- D1 (Moderate Drought)
- D2 (Severe Drought)
- D3 (Extreme Drought)
- D4 (Exceptional Drought)
- No Data

September 28, 2021



The drought did not change much in September, with only a small increase in drought status in the northeast. There was no exceptional drought in September.

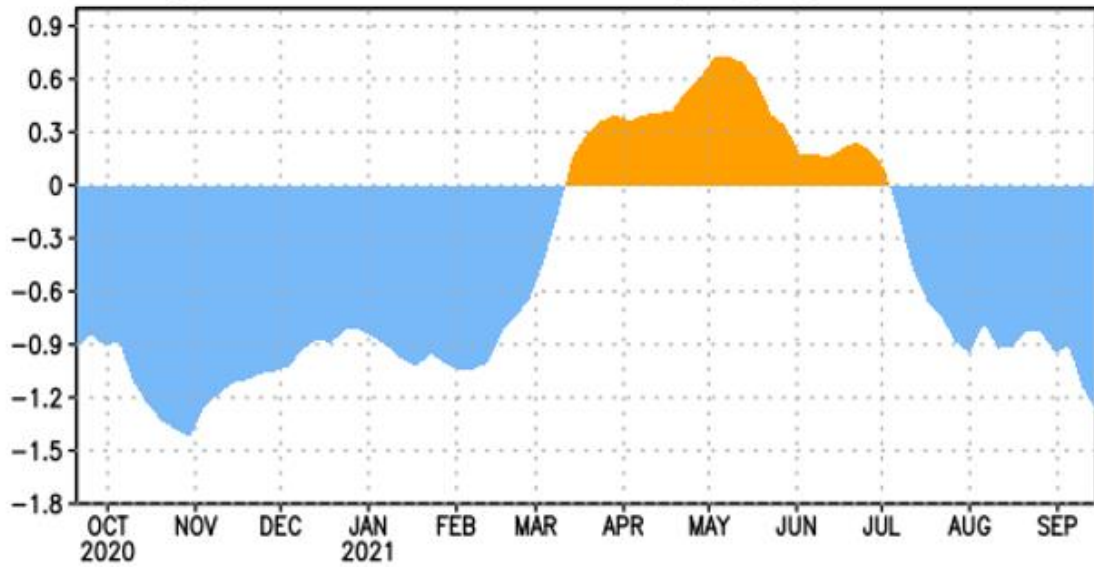
# September 2021 Climate Summary

ENSO

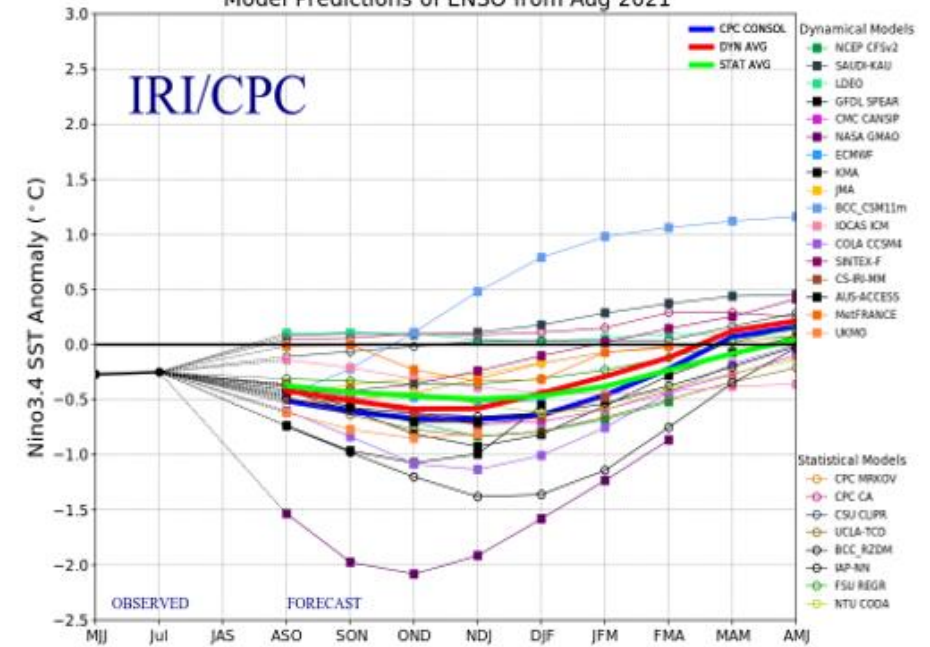
Weather Forecast Office  
Albuquerque, NM  
Issued January 9, 2022 4:33 PM MDT



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

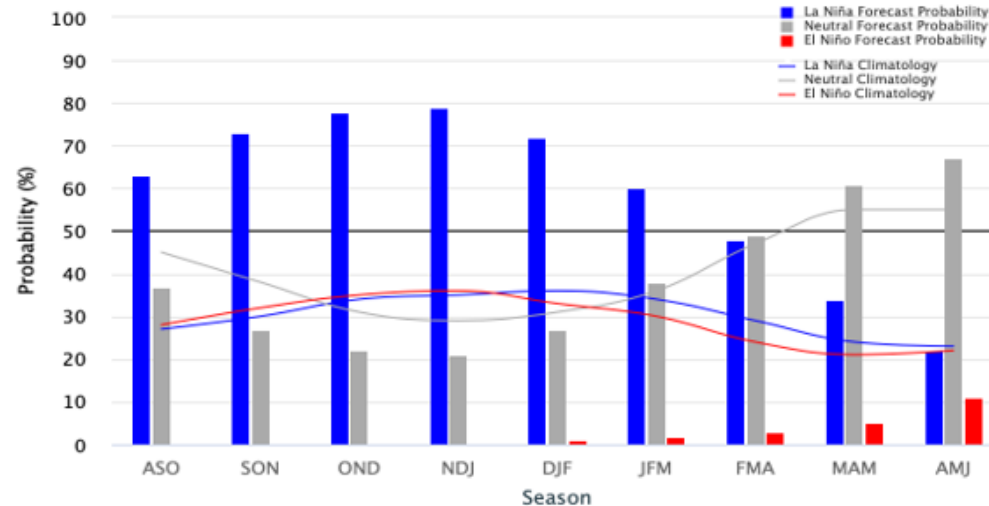


Model Predictions of ENSO from Aug 2021



Early-September 2021 CPC/IRI Official Probabilistic ENSO Forecasts

ENSO state based on NINO3.4 SST Anomaly  
Neutral ENSO: -0.5 °C to 0.5 °C



# September 2021 Climate Summary

## 90 Day Temperature & Precipitation Outlook

Weather Forecast Office  
Albuquerque, NM  
Issued January 9, 2022 4:33 PM MDT



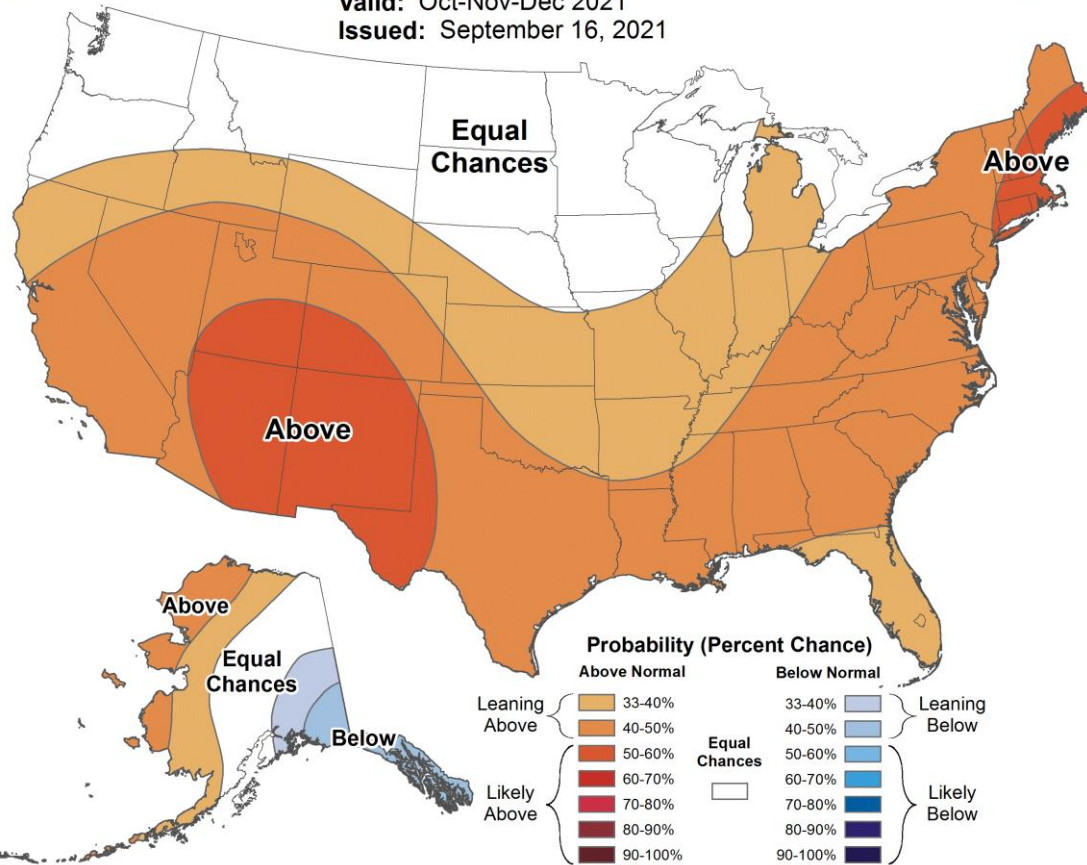
### Temperature October-November-December



## Seasonal Temperature Outlook



Valid: Oct-Nov-Dec 2021  
Issued: September 16, 2021



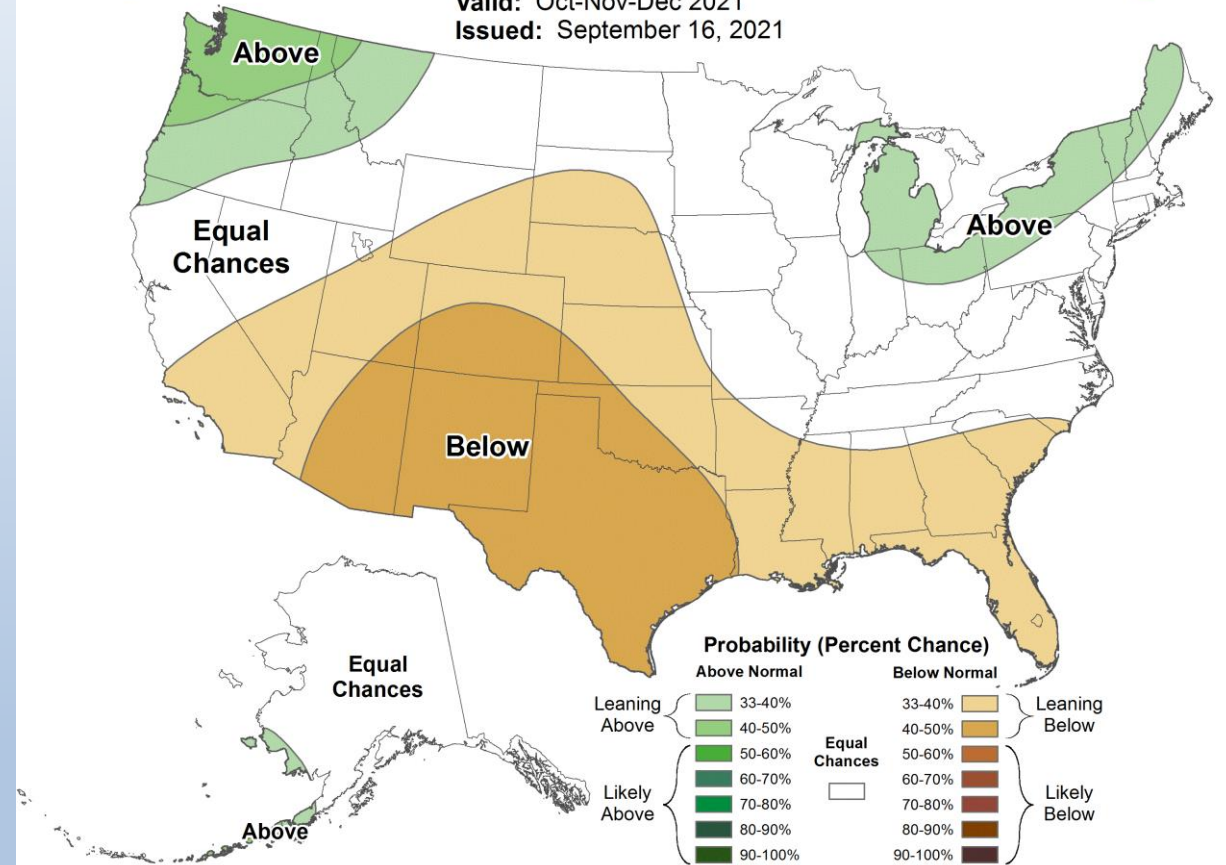
### Precipitation October-November-December



## Seasonal Precipitation Outlook



Valid: Oct-Nov-Dec 2021  
Issued: September 16, 2021



The three month climate outlook for October through December strongly favors above normal temperatures. Precipitation shows a strong tendency toward below normal. This would favor persistent or worsening drought conditions in New Mexico through this fall.



# September 2021 Climate Summary

## Albuquerque Sunport Temperatures

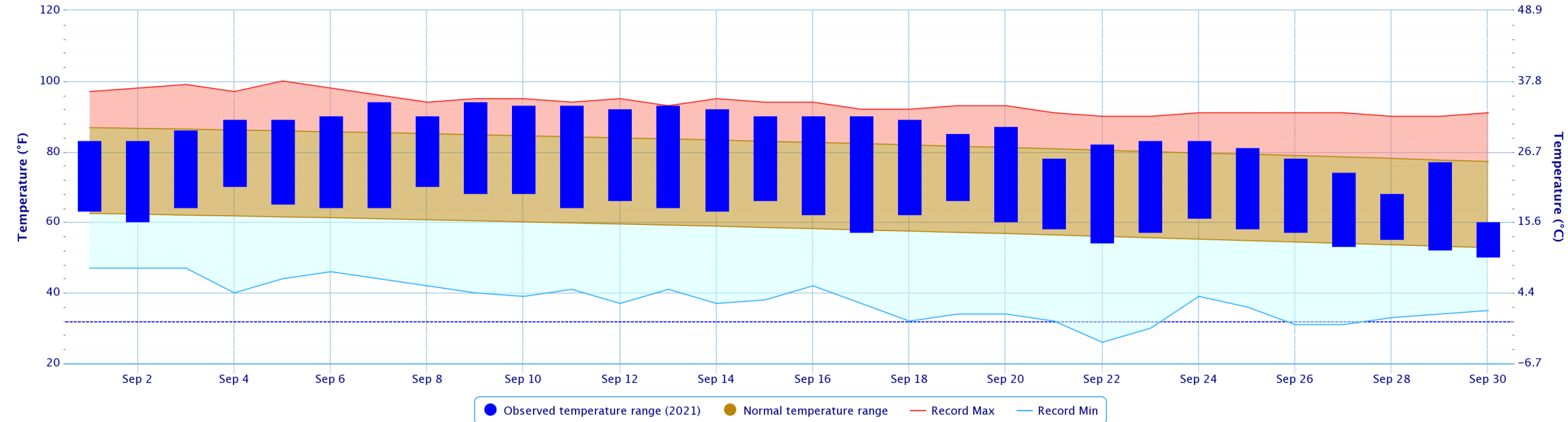
Weather Forecast Office  
Albuquerque, NM  
Issued January 9, 2022 4:33 PM MDT



(New 1991-2020 Normals) **Average Temperature: 73.3°**

Daily Temperature Data – Albuquerque Area, NM (ThreadEx)

Period of Record – 1891-12-01 to 2021-09-30. Normals period: 1991-2020. Click and drag to zoom chart.



Powered by ACIS

The average September temperature for Albuquerque was 73.3°, which was 3.0° above the normal of 70.3°. The average maximum temperature for the month was 85.2°. This was 2.7° above the normal average maximum temperature of 82.5°. The average minimum temperature for the month was 61.4°. This was 3.3° above the normal average minimum temperature of 58.1°. September 2021 was the 6<sup>th</sup> warmest on record.

# September 2021 Climate Summary

## Albuquerque Sunport Precipitation

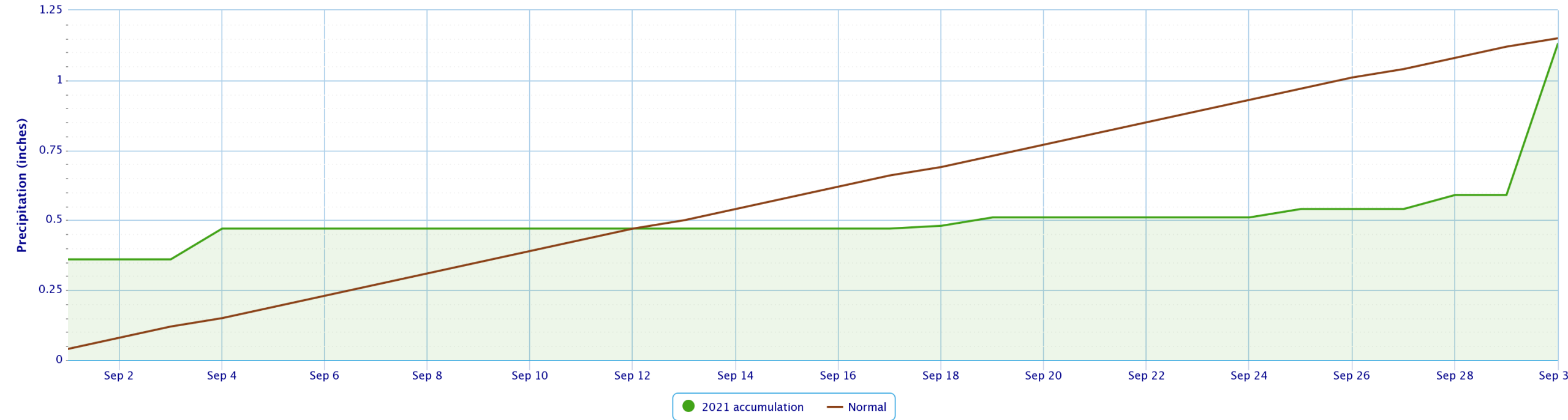
Weather Forecast Office  
Albuquerque, NM  
Issued January 9, 2022 4:33 PM MDT



(New 1991-2020 Normals) **Total Precipitation: 1.13"**

Accumulated Precipitation – Albuquerque Area, NM (ThreadEx)

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



Powered by ACIS

There was 1.13" of precipitation measured at the Sunport, compared to the normal of 1.15", or 0.02" below normal. This was tied for the 84<sup>th</sup> driest September on record.

# September 2021 Climate Summary

## Clayton Temperatures

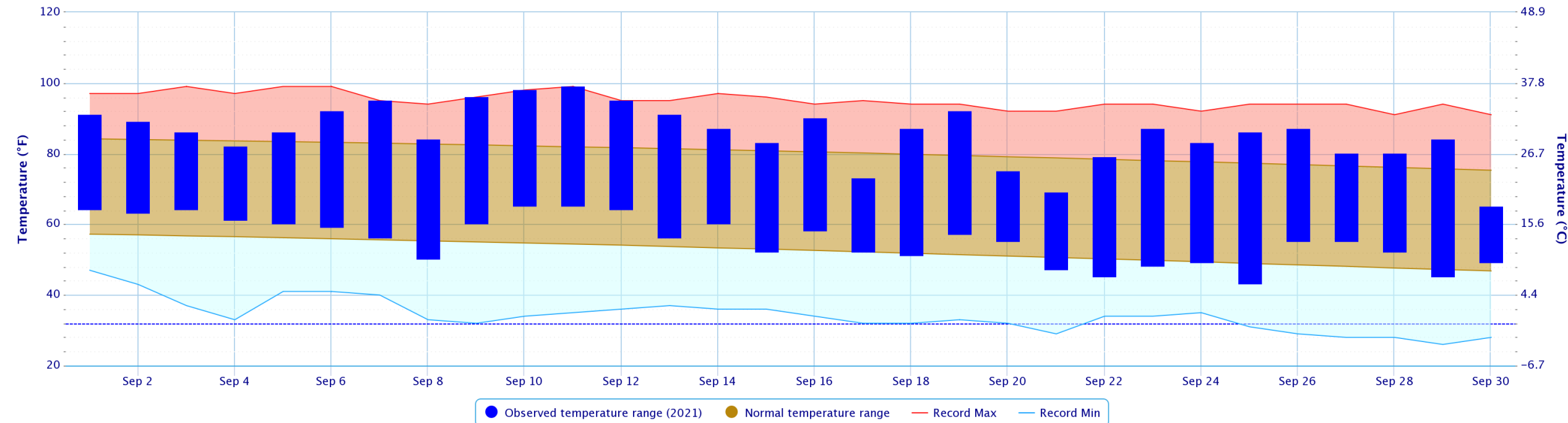
Weather Forecast Office  
Albuquerque, NM  
Issued January 9, 2022 4:33 PM MDT



(New 1991-2020 Normals) **Average Temperature: 70.5°**

Daily Temperature Data - Clayton Area, NM (ThreadEx)

Period of Record - 1896-02-01 to 2021-09-30. Normals period: 1991-2020. Click and drag to zoom chart.



Powered by ACIS

The average September temperature for Clayton was 70.5°, which was 4.1° above the normal of 66.4°. The average maximum temperature for the month was 85.7°. This was 5.4° above the normal average maximum temperature of 80.3°. The average minimum temperature for the month was 55.3°. This was 2.8° above the normal average minimum temperature of 52.5°. September 2021 was 6<sup>th</sup> warmest on record.

# September 2021 Climate Summary

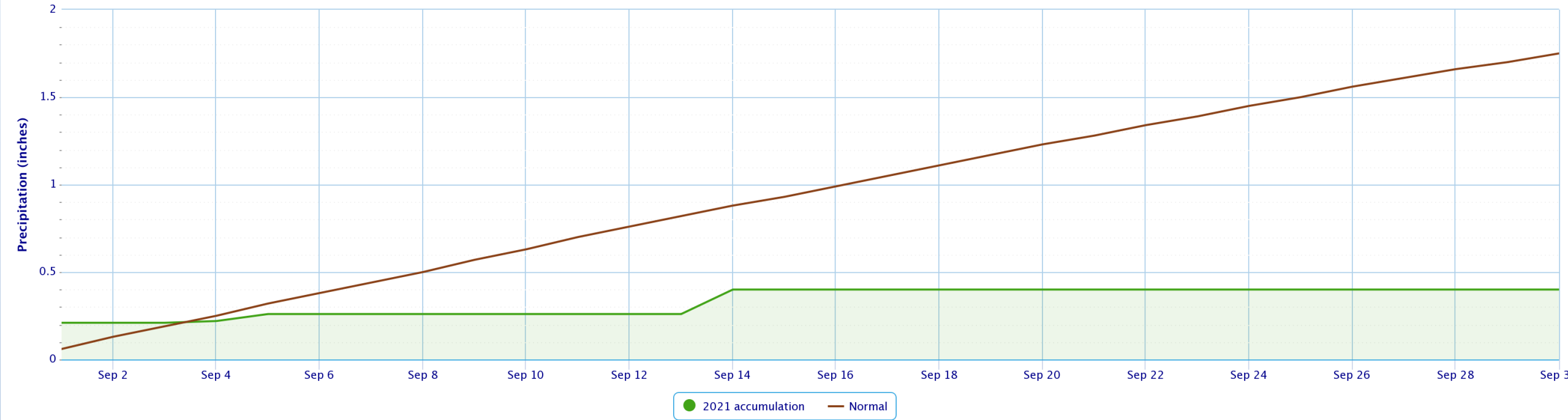
## Clayton Precipitation



(New 1991-2020 Normals) **Total Precipitation 0.40"**

Accumulated Precipitation – Clayton Area, NM (ThreadEx)

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



Powered by ACIS

There was 0.40" of precipitation measured at Clayton in September 2021, compared to the normal of 1.75", or 1.35 " below normal. This ranks as the 19<sup>th</sup> driest September on record.

# September 2021 Climate Summary

## Roswell Temperatures

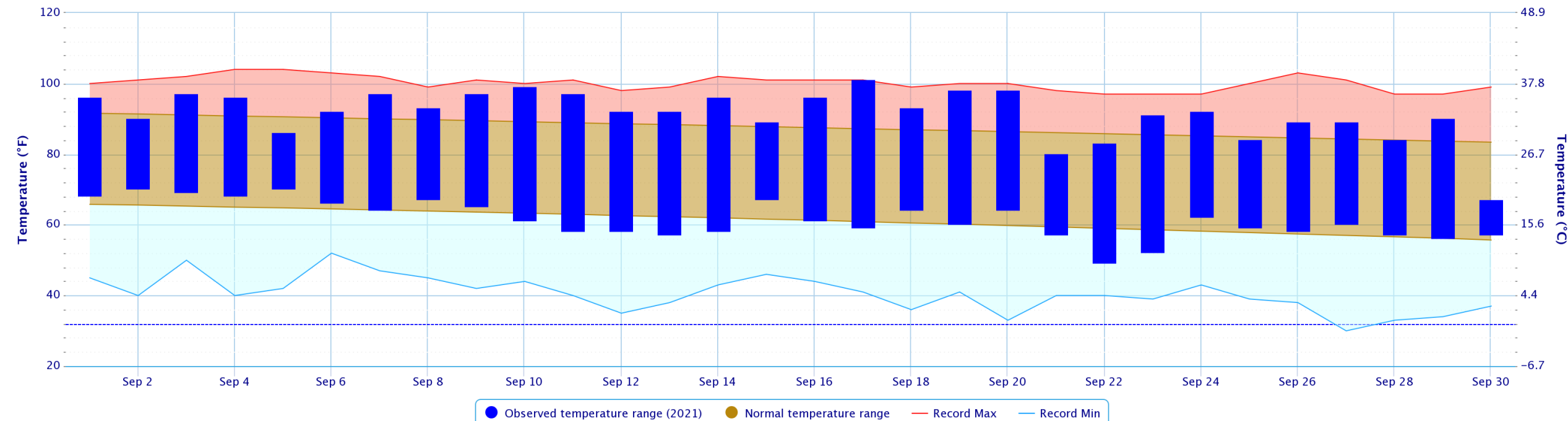
Weather Forecast Office  
Albuquerque, NM  
Issued January 9, 2022 4:33 PM MDT



(New 1991-2020 Normals) **Average Temperature: 76.4°**

Daily Temperature Data – Roswell Area, NM (ThreadEx)

Period of Record – Max temperature: 1893-01-03 to 2021-09-30; Min temperature: 1893-01-21 to 2021-09-30. Normals period: 1991-2020. Click and drag to zoom chart.



Powered by ACIS

The average September temperature for Roswell was 76.4°, which was 2.0° above the normal of 74.4°. The average maximum temperature for the month was 91.5°. This was 3.9° above the average maximum temperature of 87.6°. The average minimum temperature for the month was 61.4°. This was 0.2° above the normal average minimum temperature of 61.2°. September 2021 was the 5<sup>th</sup> warmest on record.

# September 2021 Climate Summary

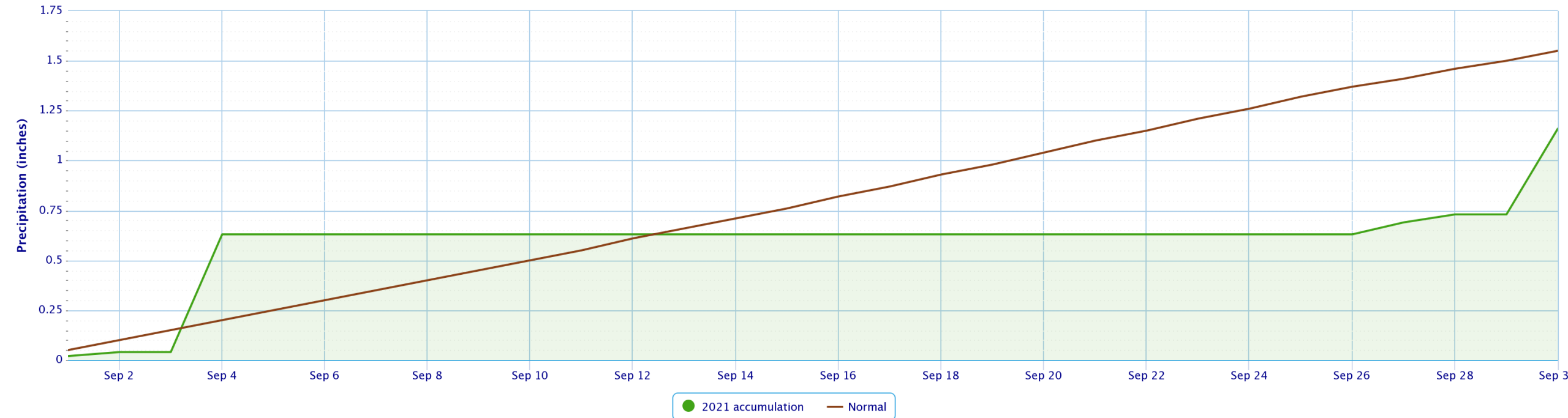
## Roswell Precipitation



(New 1991-2020 Normals) **Total Precipitation 1.16"**

Accumulated Precipitation – Roswell Area, NM (ThreadEx)

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



Powered by ACIS

There was 1.16" of precipitation measured at Roswell during September, compared to the normal of 1.55", or 0.39" below normal. This ranks as a tie for the 60<sup>th</sup> driest on record.

# September 2021 Climate Summary

Severe Weather\*








Weather Forecast Office  
Albuquerque, NM  
Issued January 9, 2022 4:33 PM MDT



Event Type	Begin Date	County Name	Magnitude	Type	Event Narrative
Thunderstorm Wind	9/1/2021	De Baca	54 kt	Gust	A mesonet station in Fort Sumner measured a 62 mph thunderstorm wind gust.
Thunderstorm Wind	9/1/2021	Union	55 kt	Gust	An ASOS station in Clayton measured a 63 mph thunderstorm wind gust.
Thunderstorm Wind	9/4/2021	Torrance	61 kt	Gust	A severe storm near Moriarty produced wind gusts estimated at 60-70 mph with damage to trees, power lines, crops, and small structures.
Flash Flood	9/4/2021	Torrance	1-2"		Heavy rainfall from a severe storm caused flash flooding in Moriarty southward to McIntosh and Estancia.
Flash Flood	9/4/2021	Chaves	1-3"		Heavy rainfall caused flash flooding in Roswell. Multiple cars were stranded and water rescues took place. Some homes were flooded.
Flash Flood	9/5/2021	Catron			Heavy rain in the Gila Cliff Dwellings produced flooding around the park.
Flash Flood	9/5/2021	Socorro			Heavy rain flooded portions of SR-52 for several hours.
Hail	9/6/2021	Union	1"		A trained spotter near Seneca reported quarter size hail from a severe thunderstorm tracking southward through the area.
Thunderstorm Wind	9/14/2021	Union	52 kt	Gust	A trained spotter estimated 60 mph wind gusts associated with a severe thunderstorm.

\*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](mailto:sr-abq.webmaster@noaa.gov)
-  NWS Albuquerque Facebook
-  @NWSAlbuquerque & #nmwx