

Flagstaff, AZ

Weather and Climate Review for 2017 in Northern Arizona



Presented by
National Weather Service
Flagstaff, AZ

2017 Climate Summary



| City | Avg Temp (F) | Departure from Normal | Rank | Precipitation Total | Departure from Normal | Rank |
|------------------|--------------|-----------------------|-------------------------|---------------------|-----------------------|-------------------------|
| Flagstaff | 48.7° | +2.5° | 3 rd warmest | 18.01" | -3.85" | 40 th driest |
| Prescott Airport | 58.6° | +2.8° | 1 st Warmest | 12.38" | -1.59" | 31 st driest |
| Prescott (Coop) | 57.0° | +2.2° | N/A | 16.27" | -1.68" | 41 st driest |
| Window Rock | 51.1° | +3.0° | 1 st Warmest | 9.08" | -3.22" | 5 th driest |
| Winslow | 58.6° | +2.7° | 1 st Warmest | 4.26" | -2.75" | 4 th driest |
| Payson | 58.8° | +3.0° | N/A | 18.73" | -2.60" | 18 th driest |
| Page | 62.8° | +3.6° | 1 st Warmest | 5.39" | -2.94" | 20 th driest |





January

Numerous storm systems affected northern Arizona throughout January. This led to most locations receiving well above normal precipitation, with heavy mountain snows. Temperatures were typical of a stormy period, with below normal daytime highs and above normal overnight lows due to extensive cloud cover and precipitation. Much of the monthly precipitation fell during a series of cold storms that brought snow and rain almost continuously from the 19th through the 24th of the month.

January 19-24 Snowstorm

Some 6-day snowfall totals include:

| | |
|----------------------------|---------|
| Arizona Snowbowl (10,800') | 92.0 in |
| Grand Canyon North Rim | 53.4 in |
| Forest Lakes | 43.0 in |
| Flagstaff Airport | 36.4 in |
| Grand Canyon Visitors Ctr | 32.2 in |
| Bellefont NWS Office | 29.3 in |
| Sunset Crater Natl Mon | 27.5 in |
| Grand Canyon (E entrance) | 24.1 in |



NWS Flagstaff – Jan. 24, 2017



February

A few relatively warm weather systems brought light rain and snow to northern Arizona the first half of February. A very wet low pressure system brought widespread rain and heavy mountain snow to the region the last few days of the month. The increased moisture resulted in near to above average precipitation for most areas, in addition to above average temperatures - particularly minimum temperatures.

February Average Temperature Ranking

| | | |
|------------------------|-------|--------------------------|
| Winslow Airport | 46.2° | 3 rd warmest |
| Canyon de Chelly | 42.4° | 4 th warmest |
| Show Low | 43.0° | 5 th warmest |
| Prescott (Water Plant) | 44.4° | 6 th warmest |
| Prescott Airport | 46.0° | 9 th warmest |
| Seligman | 44.6° | 10 th warmest |

February Average Minimum Temperature Ranking

| | | |
|------------------------|-------|-------------------------|
| Prescott Airport | 34.0° | 1 st warmest |
| Show Low Airport | 32.9° | 1 st warmest |
| Canyon de Chelly | 30.8° | 2 nd warmest |
| Flagstaff Airport | 25.7° | 2 nd warmest |
| Prescott (Water Plant) | 31.0° | 4 th warmest |
| Seligman | 31.0° | 4 th warmest |
| Williams | 28.6° | 6 th warmest |
| Winslow Airport | 30.6° | 6 th warmest |
| Payson | 31.6° | 6 th warmest |

March

March temperatures were well above average, ranking among the warmest all-time at many locations in northern Arizona. Precipitation was below normal for most locations, with the only significant precipitation falling during the last week of March. A two-week period during the middle of the month saw temperatures 10-20 degrees above average each day.

| Location | March Average Temperature | All-time Ranking |
|------------------|---------------------------|-------------------------|
| Canyon de Chelly | 49.2° | 2 nd Warmest |
| Page | 56.3° | 2 nd Warmest |
| Payson | 52.2° | 2 nd Warmest |
| Seligman | 50.8° | 2 nd Warmest |
| Winslow | 51.8° | 2 nd Warmest |
| Prescott Airport | 52.0° | 2 nd Warmest |
| Show Low | 48.1° | 3 rd Warmest |
| Flagstaff | 41.4° | 5 th Warmest |
| Prescott (city) | 50.5° | 5 th Warmest |

April

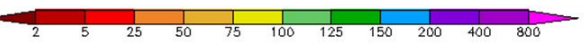
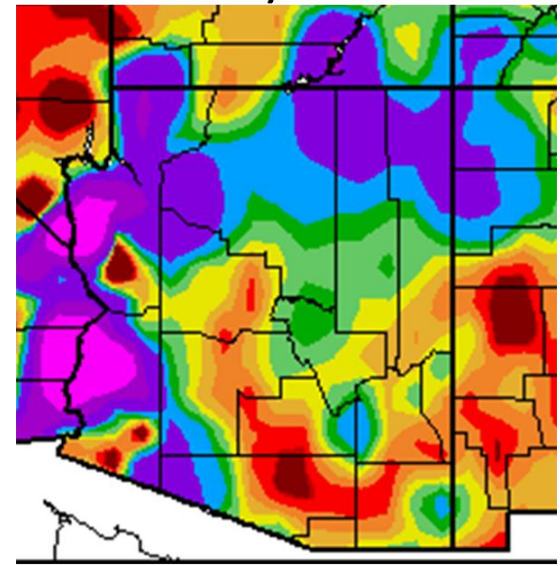
April 2017 was drier and warmer than normal across northern Arizona. The driest areas were generally along and south of the Mogollon Rim, with northeast Arizona receiving slightly higher rainfall amounts.



May

May 2017 was slightly cooler than normal across northern Arizona. Precipitation totals for the month were near to above normal for most areas. Higher elevations areas received some light snowfall around the middle of the month. Strong and gusty winds developed on several days which is typical of May in northern Arizona.

Percent of normal precipitation
May 2017



June

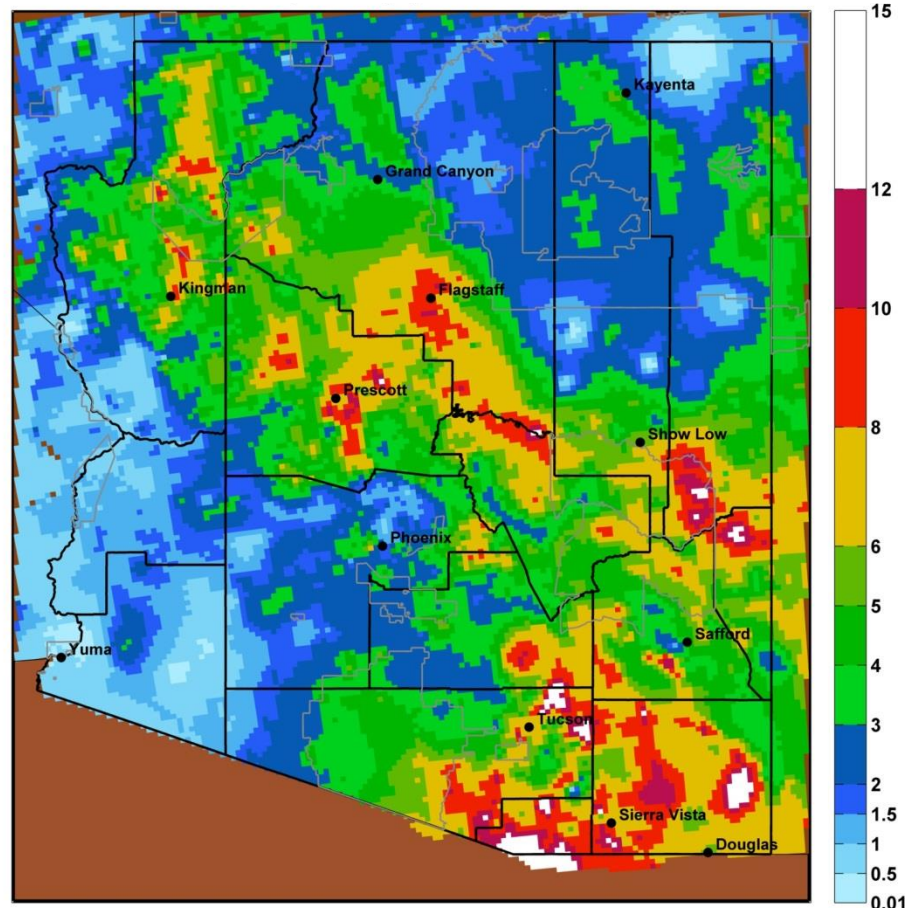
June 2017 was among the top 5 warmest Junes on record for many northern Arizona locations. There was also little to no precipitation during the month, with only some light rainfall at a few higher elevation sites.

| | June 2017 Average Temperature | Rank |
|--------------------|-------------------------------|-------------------------|
| Page | 83.8° | 3 rd Warmest |
| Prescott (Sundog) | 74.0° | 3 rd Warmest |
| Navajo Natl Mon | 72.6° | 3 rd Warmest |
| Winslow | 76.7° | 4 th Warmest |
| Prescott (Airport) | 75.3° | 4 th Warmest |
| Payson | 73.5° | 4 th Warmest |
| Flagstaff | 64.5° | 4 th Warmest |

Monsoon Season (June 15 – September 30)

Monsoon season across northern Arizona was warmer than normal. Rainfall was near to slightly above normal in the Flagstaff and Prescott regions including the Verde Valley, with drier conditions in northeast Arizona. The most intense rainfall of the season occurred during July, with many instances of flash flooding reported.

Total Monsoon Rainfall - 2017



Map produced using daily total precipitation estimates from the NOAA National Weather Service Advanced Hydrologic Prediction Service (AHPS). Data information available at <http://water.weather.gov/precip/about.php>. Date created: 02-Oct-2017
University of Arizona - <http://cals.arizona.edu/climate/>





Monsoon 2017 Rainfall Summary



| Location | Observed Precipitation (in) | Normal Precipitation (in) | Departure From Normal (in) | Percent of Normal | All-Time Ranking (Period of Record) |
|-------------------------------|-----------------------------|---------------------------|----------------------------|-------------------|--------------------------------------|
| Alpine | 9.01" | 11.58" | -2.57" | 78% | 43 rd Driest (1905-2017) |
| Bagdad | 5.12" | 5.36" | -0.24" | 96% | 37 th Wettest (1925-2017) |
| Bellefont | 8.62" | 7.86" | +0.76" | 110% | 6 th Wettest (1994-2017) |
| Bright Angel Ranger Station | 5.95" | 6.75" | -0.80" | 88% | 46 th Driest (1925-2017) |
| Canyon de Chelly (Chinle) | 3.06" | 3.75" | -0.69" | 82% | 41 st Driest (1909-2017) |
| Castle Hot Springs | 7.05" | 4.93" | +2.12" | 143% | 14 th Wettest (1916-2017) |
| Chino Valley | 5.80" | 6.20" | -0.40" | 94% | 37 th Wettest (1941-2017) |
| Cottonwood | 7.27" | 5.37" | +1.90" | 135% | 17 th Wettest (1920-2017) |
| Flagstaff Airport | 8.36" | 8.31" | +0.05" | 101% | 46 th Wettest (1898-2017) |
| Grand Canyon Airport | 5.13" | 5.93" | -0.80" | 87% | 7 th Driest (1997-2017) |
| Heber (Black Mesa Ranger Stn) | 7.56" | 8.48" | -0.92" | 89% | 33 rd Wettest (1950-2017) |
| Jerome | 6.18" | 7.33" | -1.15" | 84% | 55 th Driest (1897-2017) |
| McNary | 10.37" | 10.81" | -0.44" | 96% | 37 th Driest (1933-2017) |
| Page Airport | 1.98" | 2.18" | -0.20" | 91% | 32 nd Driest (1957-2017) |
| Payson | 8.65" | 7.52" | +1.13" | 115% | 22 nd Wettest (1940-2017) |
| Petrified Forest | 4.97" | 5.11" | -0.14" | 97% | 33 rd Wettest (1931-2017) |
| Phantom Ranch | 2.04" | 3.54" | -1.50" | 58% | 21 st Driest (1935-2017) |
| Prescott (Sundog Water Plant) | 9.02" | 7.96" | +1.06" | 113% | 43 rd Wettest (1898-2017) |
| Prescott Airport | 7.48" | 6.51" | +0.97" | 115% | 24 th Wettest (1948-2017) |
| Saint Johns Airport | 3.92" | 5.99" | -2.07" | 65% | 8 th Driest (1999-2017) |
| Seligman | 6.11" | 5.57" | +0.54" | 110% | 32 nd Wettest (1904-2017) |
| Show Low Airport | 7.52" | 7.59" | -0.07" | 99% | 17 th Driest (1984-2017) |
| Sunset Crater Natl Mon | 8.87" | 7.93" | +0.94" | 112% | 17 th Wettest (1969-2017) |
| Teec Nos Pos | 3.61" | 3.19" | +0.42" | 113% | 18 th Wettest (1962-2017) |
| Walnut Canyon Natl Mon | 5.25" | 8.15" | -2.90" | 64% | 15 th Driest (1910-2017) |
| Williams | 10.09" | 8.32" | +1.77" | 121% | 25 th Wettest (1897-2017) |
| Window Rock | 4.18" | 5.73" | -1.55" | 73% | 5 th Driest (1998-2017) |
| Winslow | 2.10" | 3.23" | -1.13" | 65% | 17 th Driest (1915-2017) |
| Wupatki Natl Monument | 5.70" | 3.89" | +1.81" | 147% | 14 th Wettest (1940-2017) |

October through December

A remarkably warm and dry period developed through the fall and to the end of the year. Persistent high pressure near the west coast kept the storm track north of the state, conditions that were consistent with an emerging La Niña. Much of the region recorded 0.01” or less of rainfall. Drought conditions rapidly developed over northern Arizona, with no snowpack through the end of the year.

| | Oct 1 – Dec 31 Precipitation | All-Time Ranking |
|------------------------|---------------------------------|---------------------------------|
| Prescott Airport | Trace | Driest on Record (tied w/ 1999) |
| Prescott WTP | Trace | Driest on Record (tied w/ 1999) |
| Tuzigoot Natl Monument | 0.00” | Driest on Record |
| Flagstaff Airport | 0.01” | 2 nd Driest |
| Show Low | 0.06” | 2 nd Driest |
| Page | Trace | 2 nd Driest |
| Payson | 0.14” | 3 rd Driest |
| Winslow | 0.02” | 3 rd Driest |