

## MONTH IN REVIEW FOR NORTHERN ARIZONA FOR JULY 2011

### ...TEMPERATURE AND PRECIPITATION OVERVIEW...

After an extremely dry June, conditions became favorable for a return of moisture to northern Arizona by July 3rd. High pressure moved into a position near the four corners, and a rapid transition to the Monsoon season occurred. Scattered thunderstorms developed each day through the 12<sup>th</sup>. A west coast trough ushered in much drier air the 13<sup>th</sup>-16<sup>th</sup> resulting in little or no thunderstorm activity. Moisture then crept back westward the 17<sup>th</sup>-21<sup>st</sup> followed by another dry spell the 22<sup>nd</sup>-26<sup>th</sup>. The end of the month was wet for many locations. Temperatures were close to normal for most locations, though there was some tendency toward warmer than normal overnight lows, likely due to increased moisture and cloud cover. Precipitation during July is typically highly variable due to the localized nature of thunderstorms. This month was no exception, with well above normal precipitation for some locations and below normal for others.

### JULY DATA AND DEPARTURES FROM NORMAL FOR SELECTED CITIES:

	MAX	DEP	MIN	DEP	PCPN	DEP
	TEMP	NORM	TEMP	NORM	TOTL	NORM
FLAGSTAFF	81.5	-0.7	51.1	+1.2	2.31	-0.09
BELLEMONT	81.2	-0.4	47.3	+1.3	2.14	-0.66
GRAND CANYON	84.7	-0.4	48.1	-2.0	2.05	+0.15
WINSLOW	93.9	+0.4	63.0	+0.9	1.79	+0.61
PRESCOTT AIRPORT	90.2	+0.7	63.1	+1.5	2.61	+0.38
SAINT JOHNS	90.5	+0.3	60.6	+3.3	2.27	+0.23
SELIGMAN	90.3	-1.1	58.0	+2.7	2.50	+1.30
SHOW LOW AP	86.0	-0.1	59.8	+2.0	1.50	-0.89

Here are some other July precipitation totals from our Co-operative observers around northern Arizona.

LOCATION                                      JULY PRECIP

ALPINE RANGER STN	6.47
BAGDAD	1.15
BLUE RIDGE RANGER STN	1.81
CANYON DE CHELLY	1.54
CASTLE HOT SPRINGS	0.74
CHINO VALLEY	1.96
CORDES	1.36
FLAGSTAFF 4SW	2.56
FORT VALLEY	2.25
GISELA	3.86
HAPPY JACK RANGER STN	2.70
HEBER (BLACK MESA) RANGER STN	4.45
JEROME	2.61
MCNARY 2N	4.18
METEOR CRATER	3.42
MONTEZUMA CASTLE NATL MON	2.60
NATURAL BRIDGE	2.86
PAYSON	3.16
PETRIFIED FOREST NATL PARK	1.34
PHANTOM RANCH	1.13
PLEASANT VALLEY RANGER STN	2.99
PRESCOTT CITY	1.80
SAINT MICHAELS	3.86
SANDERS	0.37
SELIGMAN	2.50
SNOWFLAKE	3.48
SPRINGERVILLE	5.07
SUNRISE MOUNTAIN	4.20
SUNSET CRATER NATL MON	2.28
TEEC NOS POS	2.32
WALNUT CANYON NATL MON	2.15
WUPATKI NATL MON	0.97

**...SIGNIFICANT WEATHER...**

July 2<sup>nd</sup> - Page set a record high of 106 degrees.

July 3<sup>rd</sup> - Thunderstorms over the Schultz burn area produced up to 1.75 inches of rainfall over a short period. Moderate flooding reported along Campbell Avenue and Hutchison Acres northeast of Flagstaff. Page set a record high of 105 degrees.

July 4<sup>th</sup> - Thunderstorms again affected the Schultz burn area. Flooding was reported in Hutchison Acres and along Campbell Avenue.

July 5<sup>th</sup> - Strong thunderstorms over parts of Yavapai County produced locally heavy rain and high winds. A 60 MPH gust was reported at Stanton at 510 PM.

July 6<sup>th</sup> - Penny sized hail reported in Heber. Localized flooding reported in Camp Verde.

July 7<sup>th</sup> - Minor flooding in Payson due to strong thunderstorms. Dime sized hail was also reported just northeast of Payson.

July 8<sup>th</sup> - Nickel sized hail reported in Chino Valley at 3 PM.

July 9<sup>th</sup> - Thunderstorms developed during the morning hours over the Wallow burn area in the White Mountains. Spotters reported that Colter Creek in Nutrioso ran out of its banks and was flooding yards and nearby properties. Spotters in Alpine also reported that burn area debris along with water and mud was flowing across residential properties and threatening homes.

July 10<sup>th</sup> - Minor flooding reported in the Mayer and Dewey areas during the early afternoon. Flooding reported in the Schultz burn area by mid afternoon. By early evening, storms caused flooding along Colter Creek in Nutrioso.

July 11<sup>th</sup> - Rockfall due to heavy rain 4 miles NE of Congress along Highway 89 around 3 AM. Minor flooding reported near Greer by early afternoon.

July 15<sup>th</sup> - Due to a very dry air mass, several record lows were set. Flagstaff dropped to 37 degrees, Prescott 52 degrees, Sunset Crater 38 degrees and Winslow 52 degrees.

July 17<sup>th</sup> - Minor flooding over portions of the Wallow burn area. At 320 PM, spotters in Alpine reported water flowing through several properties.

July 18<sup>th</sup> - Flash flooding occurred in Antelope canyon near Page during the late afternoon. Street flooding was also reported in the Chino Valley area in Yavapai County.

July 20<sup>th</sup> - A mudslide and debris flow was reported just south of the intersection of U.S. highways 180 and 191 in the Wallow burn area around Noon. Flooding also occurred over the Locust burn area near Whiteriver. Street flooding was reported with rocks and sand across roadways.

July 25<sup>th</sup> - Route 99 flooded 15 miles south of Winslow. Water was at least 2 feet deep.

July 26<sup>th</sup> - County road 2153 near Alpine was flooded. Also County road 1126 near Greer was flooded, with standing water in the Greer fire station.

July 28<sup>th</sup> - Significant flooding over the Schultz burn area. Strong flows were observed down Campbell, Copeland and Brandis Way with several streets blocked for 1-2 hours.