

MONTH IN REVIEW FOR NORTHERN ARIZONA FOR NOVEMBER 2013

...TEMPERATURE AND PRECIPITATION OVERVIEW...

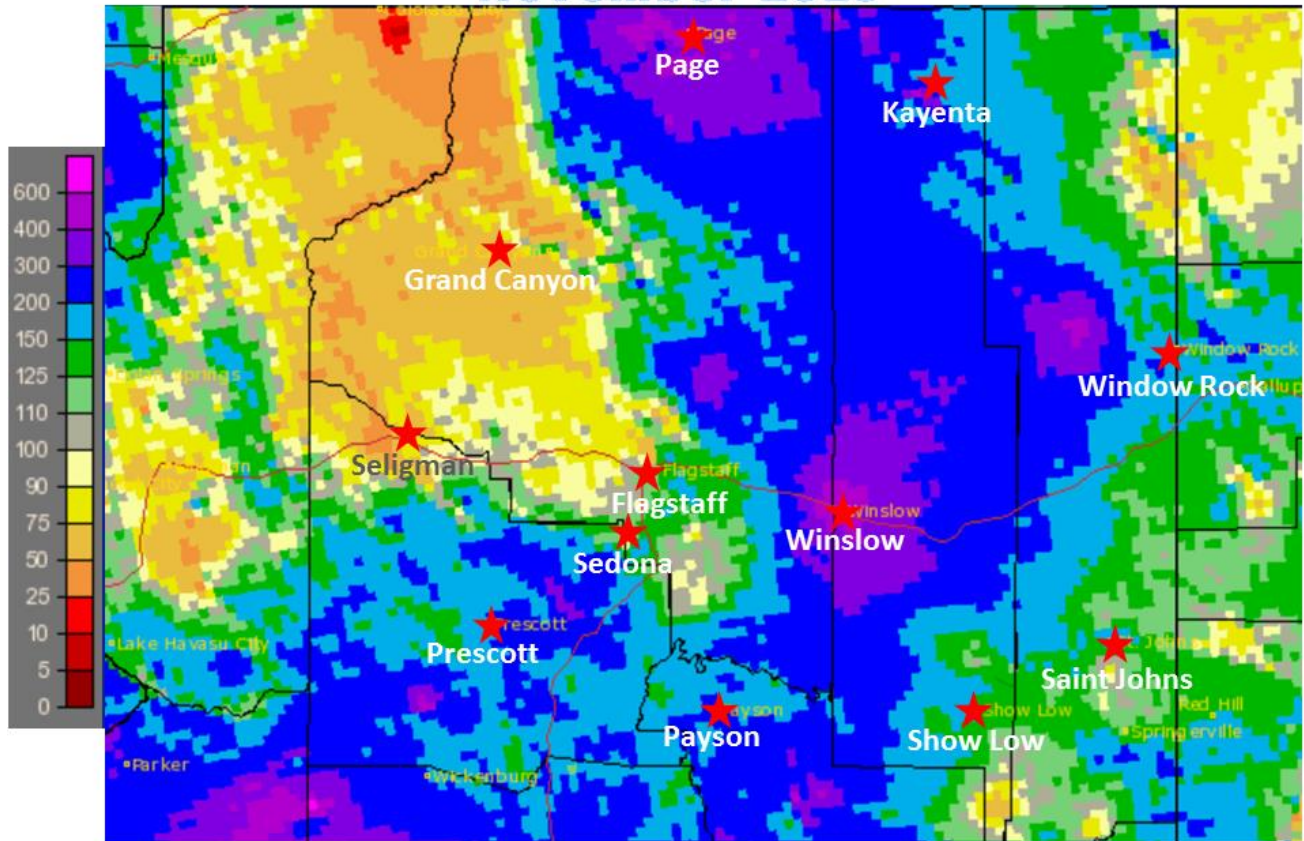
High temperatures for November were near normal, with slightly above normal overnight lows. Although the majority of the month was fair and dry, an extremely moist storm system from November 20th to 24th produced enough precipitation to push monthly totals well above normal for most locations. The storm system also brought the first significant snow of the season to many of the mountain locations including the Mogollon Rim and the northeast Arizona mountains.

NOVEMBER DATA AND DEPARTURES FROM NORMAL FOR SELECTED CITIES:

	Max Temp	Dep Norm	Min Temp	Dep Norm	Precip TOTAL	Dep Norm	% Norm
Flagstaff	50.6	+0.1	24.2	+1.3	2.22	+0.46	126%
Winslow	59.1	-1.0	30.1	+2.2	2.54	+2.03	498%
Prescott AP	61.4	+0.9	33.4	+1.8	1.70	+0.78	185%
Prescott WTP	59.3	-1.2	30.4	+0.9	2.47	+1.39	229%
St Johns AP	58.0	-0.5	28.8	+2.3	1.10	+0.18	120%
Grand Canyon	53.5	+1.1	21.1	+1.8	0.76	-0.28	73%
Bellemont	52.1	-0.2	20.5	+1.6	1.61	+0.30	123%
Show Low AP	55.7	-1.0	32.4	+2.1	1.88	+0.56	142%
Cottonwood	68.7	-0.1	37.8	+1.4	2.43	+1.64	308%
Seligman	62.5	+0.7	29.6	+1.0	1.05	+0.18	121%
Page Airport	56.1	+1.5	37.9	+1.4	1.84	+1.28	329 %
Window Rock	52.8	-2.0	21.5	+0.2	1.45	+0.58	167%

Below is an image showing percent of normal precipitation for November around northern Arizona. The deep moisture plume that set up from Payson to Winslow, to Kayenta and Page during the Nov. 20th 24th storm system can be clearly seen in the monthly plot. This single storm system was responsible for dumping 200 to 400 percent of normal monthly precipitation in this area. Western Coconino county received less precipitation than the rest of the region as the moisture plume set up well east of that area.

Percent of Normal Precipitation November 2013



Here are some additional monthly precipitation totals from our Co-operative weather observers. The storm of November 20th through 24th accounts for the majority of this precipitation for each location.

LOCATION	NOVEMBER PRECIPITATION
BAGDAD	3.11
BELLEMONT NWS OFFICE	1.61
BRIGHT ANGEL R.S.	1.64
CAMP VERDE 3N	2.35
CANYON DE CHELLY	1.05
CHINO VALLEY	1.79
CORDES	2.88
FLAGSTAFF ARBORETUM	2.00
FLAGSTAFF AIRPORT	2.22
FREDONIA 7SSE	0.64
GANADO	3.08

GISELA	3.86
GRAND CANYON AIRPORT	0.76
GRAND CANYON EAST ENTRANCE	1.91
GRAND CANYON VISITOR CENTER	0.95
HEBER (BLACK MESA) R.S.	3.71
JEROME	3.55
KEAMS CANYON	1.54
LEES FERRY	2.03
MCNARY 2N	1.94
METEOR CRATER	2.37
MONTEZUMA CASTLE N.M.	2.96
NATURAL BRIDGE	3.32
OAK CREEK	3.09
PAGE AIRPORT	1.84
PAINTED DESERT N.P.	1.64
PAYSON	3.68
PETRIFIED FOREST N.P.	1.81
PHANTOM RANCH	0.39
PINETOP 2E	2.74
PLEASANT VALLEY R.S.	1.81
PRESCOTT AIRPORT	1.70
PRESCOTT (CITY)	2.47
SAINT JOHNS AIRPORT	1.10
SAINT MICHAELS	1.37
SANDERS	0.96
SELIGMAN	1.05
SHOW LOW AIRPORT	1.88
SNOWFLAKE	1.75
TEEC NOS POS	1.32
TUZIGOOT N.M.	2.34
WALNUT CANYON N.M.	3.19
WALNUT CREEK	1.94
WALNUT GROVE	2.57
WHITERIVER 1 SW	0.69
WILLIAMS	2.30
WILLIAMS 35 NNW	0.61
WINDOW ROCK AIRPORT	1.25
WINSLOW AIRPORT	2.45
WUPATKI N.M.	2.37

...SIGNIFICANT WEATHER...

...NOVEMBER 4TH - RECORD LOWS...

CITY	(PERIOD OF RECORD)	NEW LOW	PREVIOUS RECORD/YEAR
COTTONWOOD-TUZIGOOT	(1977 - 2013)	29	29 (TIED) IN 1993
SUNSET CRATER NM	(1970 - 2013)	4	6 IN 1993

...NOVEMBER 15TH - STRONG WINDS...

An approaching cold front brought strong winds to the region on November 15th. The highest gusts were across eastern Arizona. Here are some peak gusts reported to the National Weather Service:

<u>Location</u>	<u>Peak Gust</u>	<u>/ Time</u>
ST JOHNS.....	61 MPH	157 PM
SHOW LOW.....	52 MPH	315 PM
CONCHO.....	51 MPH	1234 PM
OVERGAARD.....	48 MPH	135 PM
PETRIFIED FOREST....	47 MPH	247 PM
SNOWFLAKE.....	46 MPH	1229 PM
WINSLOW.....	46 MPH	301 PM
GRAND CANYON ARPT...	43 MPH	1228 PM
DONEY PARK.....	39 MPH	1004 AM
GREER.....	39 MPH	135 PM
WINDOW ROCK.....	38 MPH	457 PM
FLAGSTAFF ARPT.....	36 MPH	1241 PM
WILLIAMS.....	35 MPH	115 PM

...NOVEMBER 20TH-24TH - HEAVY RAIN AND SNOW...

A storm system brought widespread rain and snow to northern Arizona over a five day period from Wednesday, Nov. 20th through Sunday, Nov. 24th. Some of the heaviest amounts were recorded from Gila County northward through the Winslow area to the Utah border. Winslow recorded their all-time wettest November day with 1.78" on the 22nd.

STORM TOTAL PRECIPITATION AMOUNTS

(INCLUDING BOTH RAIN AND MELTED SNOW):

E VERDE RIVER (15N PAYSON)	4.77"
PLEASANT VALLEY	4.31"
CROWN KING	3.80"
GISELA	3.68"
PAYSON	3.60"
TONTO NATURAL BRIDGE	3.20"
SUNSET POINT	2.97"
BAGDAD	2.95"
JEROME	2.75"
CHERRY	2.63"
PRESCOTT (CITY)	2.45"

WINSLOW	2.43"
CHILDS	2.42"
CORNVILLE	2.33"
FLAGSTAFF AIRPORT	2.22"
OAK CREEK CANYON	2.20"
WUPATKI NATIONAL MONUMENT	2.11"
SEDONA	2.04"
CAMP VERDE	2.02"
LEES FERRY	1.87"
PAGE AIRPORT	1.84"

STORM TOTAL SNOWFALL AMOUNTS:

LOCATION	TOTAL SNOWFALL (INCHES)
AZ SNOWBOWL	18-29
FOREST LAKES	12
GRAND CYN E ENTRANCE	11.9
GRAND CYN N RIM	10-12
FLAGSTAFF ARPT	11.4
ALPINE	10
KACHINA VILLAGE	10
JACOB LAKE	10
MONUMENT VALLEY	8
NAVAJO NATIONAL MON.	8
PARKS	5-8
WILLIAMS	5-8
KAYENTA	6.0
BELLEMONT	4.8
TSAILE	3.0
CONCHO	2.0
GANADO	2.0
WINDOW ROCK	2.0
SPRINGERVILLE	1.0