### MONTH IN REVIEW FOR NORTHERN ARIZONA FOR DECEMBER 2013

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

Temperatures across northern Arizona were generally cooler than normal for December 2013. Periodic storm systems affected the region, though most of the precipitation with each storm was focused on central and north central portions of the state, including Flagstaff and Cottonwood. Precipitation in these areas was close to normal, but the rest of the region saw a dry December with less than 50% of normal precipitation.

	Max Temp	Dep Norm	Min Temp	Dep Norm	Precip TOTAL	Dep Norm	% Norm
Flagstaff	40.7	-1.8	14.3	-2.5	1.35	-0.52	72%
Winslow	46.2	-2.4	19.5	-1.1	0.05	-0.51	9%
Prescott AP	52.2	+1.0	23.7	-1.6	0.31	-0.65	32%
Prescott WTP	50.9	-0.6	21.5	-1.9	0.76	-0.70	52%
St Johns AP	46.7	-1.9	18.5	-1.2	0.15	-0.73	17%
Grand Canyon	44.4	+0.6	10.7	-1.8	MM	MM	MM
Bellemont	42.0	-2.3	7.2	-6.0	1.97	+0.24	114%
Show Low AP	44.7	-2.2	22.0	-1.2	0.23	-1.28	15%
Cottonwood	59.2	+0.7	28.8	-0.8	1.02	-0.14	88%
Seligman	53.2	+0.3	21.0	-1.6	0.20	-0.69	22%
Page Airport	41.9	-1.8	25.5	-4.0	0.16	-0.39	29%
Window Rock	45.6	+1.7	14.7	+0.6	0.31	-0.48	39%

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

Here are some additional monthly precipitation totals from our Co-operative weather observers.

0.46

0.33

LOCATION	DECEMBER PRECIPITATION
BAGDAD	0.16
BELLEMONT NWS OFFICE	1.97
BRIGHT ANGEL R.S.	1.18
CANYON DE CHELLY	0.50

CHINO VALLEY FREDONIA 7SSE

GRAND CANYON EAST ENTRANCE	1.30
GRAND CANYON VISITOR CENTER	0.31
JEROME	1.53
KEAMS CANYON	0.11
LEES FERRY	0.02
MCNARY 2N	1.11
METEOR CRATER	0.11
NATURAL BRIDGE	1.53
OAK CREEK	1.64
PAINTED DESERT N.P.	0.08
PAYSON	1.35
PETRIFIED FOREST N.P.	0.06
PHANTOM RANCH	0.14
PINETOP 2E	0.95
PRESCOTT (WATER TREATMENT PLANT)	0.76
SELIGMAN	0.20
SHOW LOW AIRPORT	0.23
SNOWFLAKE	0.21
TUZIGOOT N.M.	1.02
WALNUT CANYON N.M.	0.98
WHITERIVER 1 SW	0.45
WILLIAMS	1.01
WUPATKI N.M.	0.37

## ...SIGNIFICANT WEATHER...

Record	High	Temperatures:
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RECORD HIGH TEMPERATURES ON DE	C 15 2013			
CITY (PERIOD OF RECORD) COTTONWOOD-TUZIGOOT (1977 - 2013)				
Record Low Temperatures:				
RECORD LOW TEMPERATURES ON DEC	10 2013			
CITY (PERIOD OF RECORD)				
	19			
	-10			
PRESCOTT AIRPORT (1948 - 2013)	10	10 (TIED)	IN 1972	
RECORD LOW TEMPERATURES ON DEC	09 2013			
CITY (PERIOD OF RECORD)	NEW LOW	PREVIOUS REC	ORD/YEAR	
	20			
FLAGSTAFF (1898 - 2013)	-9	-8	IN 1951	
RECORD LOW TEMPERATURES ON DEC	08 2013			
CITY (PERIOD OF RECORD) NEW LOW PREVIOUS RECORD/YEAR				
BAGDAD (1929 - 2013)	18	22	IN 1998	

... RECORD LOW TEMPERATURES ON DEC 07 2013...

CITY (PERIOD OF RECORD)	NEW LOW	PREVIOUS RECORD/YEAR
NAVAJO NM (1939 - 2013)	2	5 IN 1951
CITY (PERIOD OF RECORD)	NEW LOW	PREVIOUS RECORD/YEAR
SELIGMAN (1904 - 2013)	6	9 IN 2011

### December 4<sup>th</sup> Snowfall:

SNOW TOTALS:	
APACHE COUNTY	
7 W WINDOW ROCK	4.0
CONCHO	1.0
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COCONINO COUNTY	
JACOB LAKE	6.0
FOREST LAKES	5.0
ARIZONA SNOWBOWL	4.0
FREDONIA	3.0
BELLEMONT	2.1
WILLIAMS	1.0-2.0
KACHINA VILLAGE	1.5
FLAGSTAFF	1.0-3.0
GRAND CANYON VILLAGE	0.5-1.0
PARKS	1.0
DONEY PARK	0.8
6 NNE ASH FORK	0.5
PAGE	0.5

#### December 8<sup>th</sup> Cold & Snow:

A STRONG COLD FRONT PLUNGED INTO NORTHERN ARIZONA BRINGING ANOTHER ROUND OF SNOWFALL TO MUCH OF THE REGION. STRONG WINDS AHEAD OF THE FRONT RESULTED IN WIDESPREAD BLOWING AND DRIFTING SNOW AS WELL AS VERY COLD WIND CHILLS. SNOWFALL AMOUNTS WERE GREATEST ALONG THE HIGHER TERRAIN OF THE WESTERN MOGOLLON RIM AND KAIBAB PLATEAU WITH LESSER AMOUNTS ALONG THE EASTERN RIM AND IN YAVAPAI COUNTY. THIS STORM CAME DURING A 6-DAY COLD OUTBREAK (DEC 4-9) WHERE TEMPERATURES REMAINED BELOW FREEZING OVER THE HIGHER TERRAIN, AND IN THE 20S OR 30S IN THE LOWER ELEVATIONS.

SNOW TOTALS:

APACHE COUNTY	
SUNRISE SKI PARK	10.0
MCNARY	4.5
FORT DEFIANCE	3.0
CANYON DE CHELLY	2.5
TSAILE	2.4
WINDOW ROCK	2.0
VERNON	2.0
BURNSIDE JCT/GANADO	2.0

COCONINO COUNTY JACOB LAKE	11.0				
ARIZONA SNOWBOWL	8.0	(8	ТО	12	INCHES)
FLAGSTAFF AIRPORT	6.7				
KACHINA VILLAGE	5.2				
BELLEMONT	4.7				
4 S WILLIAMS	4.0				
MUNDS PARK	4.0				
PARKS	4.0				
FOREST LAKES	4.0				
SW WILLIAMS	3.5				
ANTELOPE TANK	3.0				
WALNUT CANYON	3.0				
VALLE	0.8				
LEUPP	0.5				
GILA COUNTY					
PAYSON	2.0				
NAVAJO COUNTY	0 1				
PINETOP-LAKESIDE	2-4				
SHOW LOW	2.0				
HOTEVILLA	2.0				
KYKOTSMOVI	1.5				
HEBER-OVERGAARD	1.0				
MONUMENT VALLEY	1.0				
YAVAPAI COUNTY	2 0				
4 SW PRESCOTT	3.0				
W PRESCOTT	2.5				
PRESCOTT VALLEY	1.0				
PRESCOTT WWTP	0.5				

# December 13<sup>th</sup> Unusual Freezing Rain:

A RELATIVELY WEAK AND WARM STORM SYSTEM INTERACTED WITH A SHALLOW MODIFIED ARCTIC AIR MASS ENTRENCHED IN THE VALLEYS OF NORTHEAST ARIZONA TO BRING LOCALIZED AREAS OF FREEZING RAIN DURING THE NIGHT OF DECEMBER 13<sup>TH</sup>. ICY ROADS AND VEHICLE SLIDE-OFFS WERE REPORTED BY ADOT AND LAW ENFORCEMENT.

FREEZING RAIN REPORTS WERE RECEIVED FROM THE FOLLOWING LOCATIONS:

SNOWFLAKE I-40 MILE POST 330-336 NEAR HOLBROOK GANADO

# December 20<sup>th</sup> Snow Storm:

A WEATHER SYSTEM CROSSING THE STATE BROUGHT RAIN AND HIGH ELEVATION SNOW TO NORTHERN ARIZONA, WITH HEAVY SNOW FALLING OVER PORTIONS OF THE MOGOLLON RIM. PRECIPITATION AMOUNTS WERE HIGHEST OVER YAVAPAI, GILA, AND SOUTHERN COCONINO COUNTIES. BELOW ARE STORM TOTAL SNOWFALL AMOUNTS.

SNOW TOTALS:

COCONINO COUNTY	
BELLEMONT	15.0
PARKS	10.0-12.0
ARIZONA SNOWBOWL	7.0-10.0
HAPPY JACK	10.0
FLAGSTAFF AIRPORT	7.8
WILLIAMS	6.0-7.2
KACHINA VILLAGE	6.0-7.0
MOUNTAINAIRE	7.0
FLAGSTAFF	6.0-7.0
DONEY PARK	5.0-6.0
MUNDS PARK	5.0
UPPER OAK CREEK	3.0
GILA COUNTY	
1 SW PINE	4.0
YAVAPAI COUNTY	
3 S IRON SPRINGS	2.0
3 WNW PRESCOTT	0.5