



Arizona Climate Summary

May 2014

Summary of conditions for April 2014

April 2014 Temperature and Precipitation Summary

April 1st – 16th: April 2014 was a slightly warmer April than normal for locations in the Basin and Range province. Monthly temperature averages were roughly 2 degrees above normal while Arizona cities on the Colorado Plateau including Flagstaff and Winslow experienced temperatures closer to average. During the first week of the month, the higher elevations received some rain as well as snow as a result of a low pressure center passing through Utah and southern Colorado. On the 2nd, Flagstaff reported 0.30” of rainfall and 3.6” of snow. Phoenix and Tucson reported no precipitation for the first half of this month. No records in temperature and precipitation were set for this month for Phoenix and Flagstaff; however, on the 11th, Tucson set a new High Minimum temperature record of 65 by beating the previous record of 63 which was originally set in 1931.

April 17th – 30th: For the second half of the month, Arizona experienced more of the same with very light precipitation at higher elevations, and traces of rainfall were recorded for Phoenix and Tucson. A relatively weak low pressure system moved through the state on the 18th. Flagstaff recorded 0.02” of rainfall while Phoenix reported a trace. Tucson reported a trace on the 19th as did Flagstaff; however, Phoenix had no precipitation that day. A stronger low pressure system moved through the state on the 26th bringing instability and stormy conditions to the state. Flagstaff received 0.90” of rainfall and 5.5” of snow. Phoenix reported a trace and Tucson measured 0.02” of rain. No records were set among the three main cities for the last half of this month. This April turned out to be the 11th warmest for Phoenix and the 14th warmest for Tucson. No rankings in precipitation were established for this month.

In This Issue: Overview of April, graphs of the April daily maximum and minimum temperatures, precipitation, mean daily dew points for Flagstaff, Phoenix, and Tucson; April climate statistics, maps of mean monthly maximum and minimum temperatures, precipitation, dew points, wind speeds for April; and graphs of the mean April temperature and precipitation for the period of record for Tucson, Phoenix, and Flagstaff, graphs of the cumulative precipitation for the calendar year for Flagstaff, Phoenix, and Tucson. Climate calendars for Flagstaff, Phoenix, Tucson, Prescott, Winslow and Yuma, including daily and monthly normals and extremes, for each month of the year, can be downloaded directly from the State Climate website. See p. 19 of this report for calendar abbreviations.

Data are preliminary and are from the National Weather Service Forecast Offices in Flagstaff, Phoenix and Tucson.

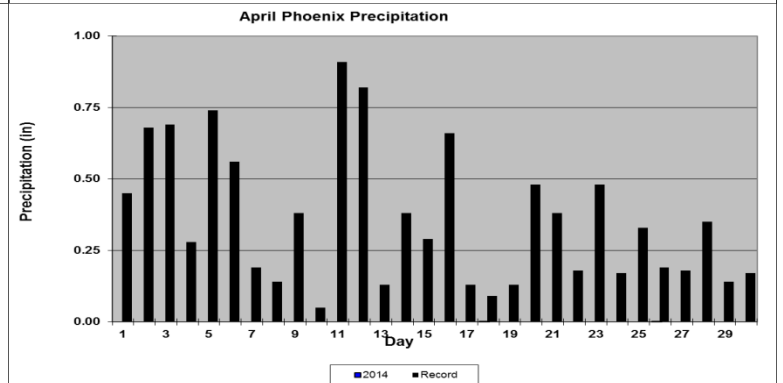
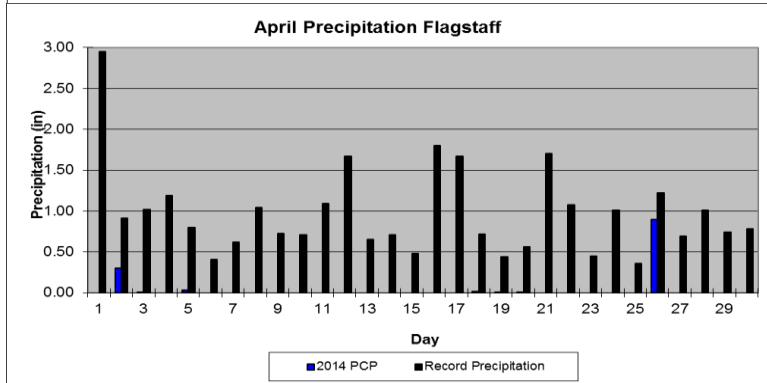
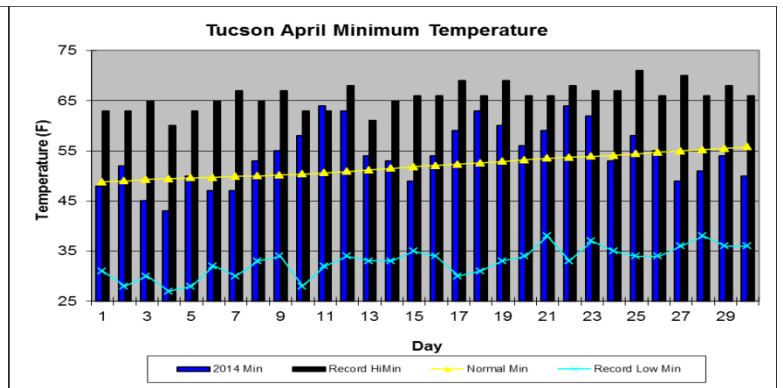
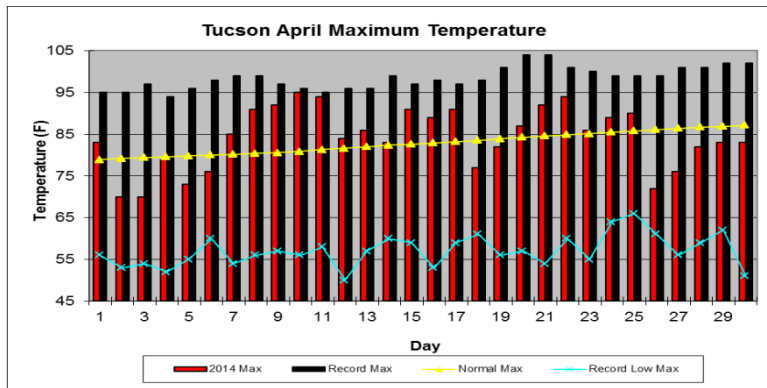
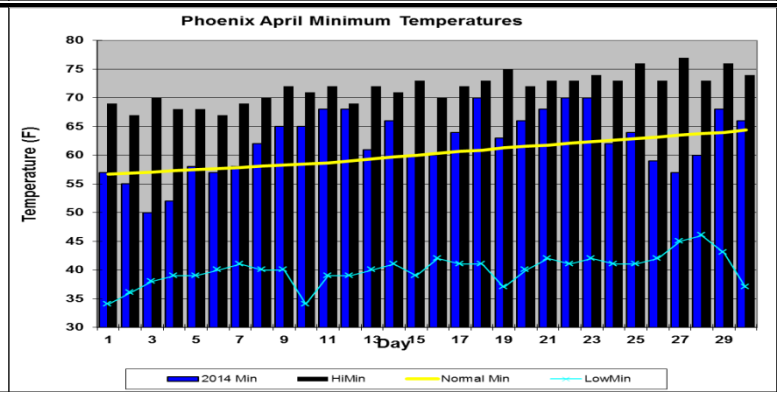
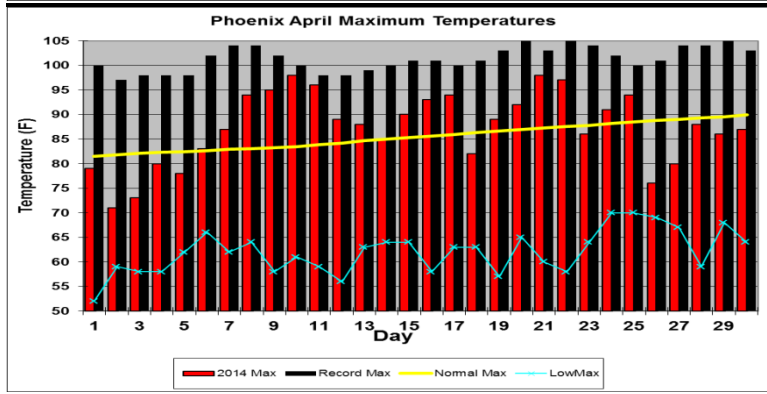
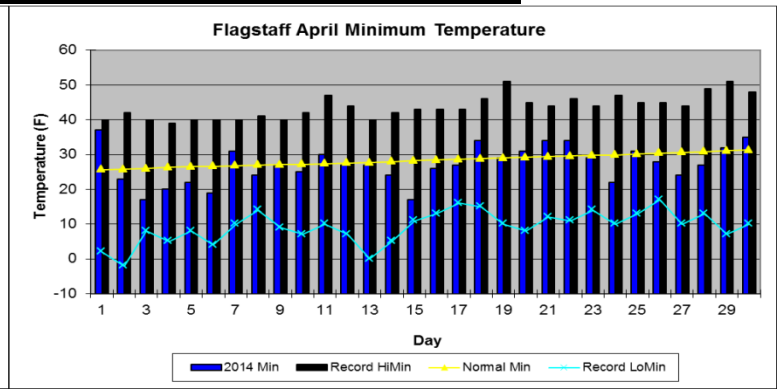
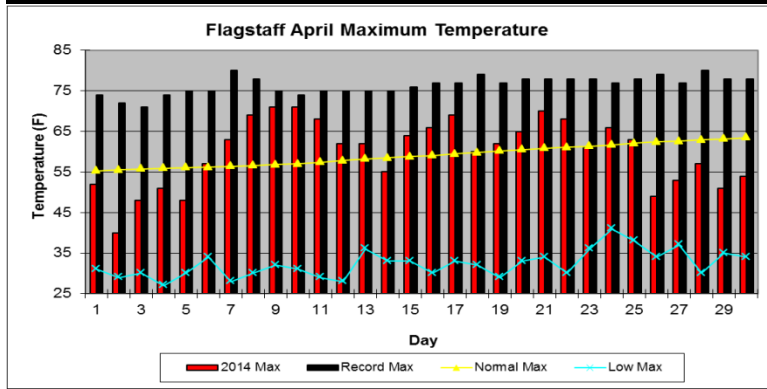
****Note:** The discrepancy between the Statewide Temperature and Precipitation values for Phoenix, Flagstaff and Tucson and the daily values in their graphs are due to the reporting times. Statewide Temperature and Precipitation values are taken at 5pm, while official daily records at the airports are taken from Midnight to Midnight.

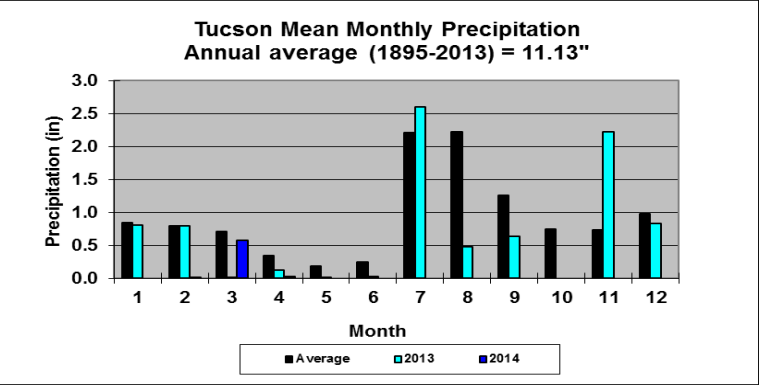
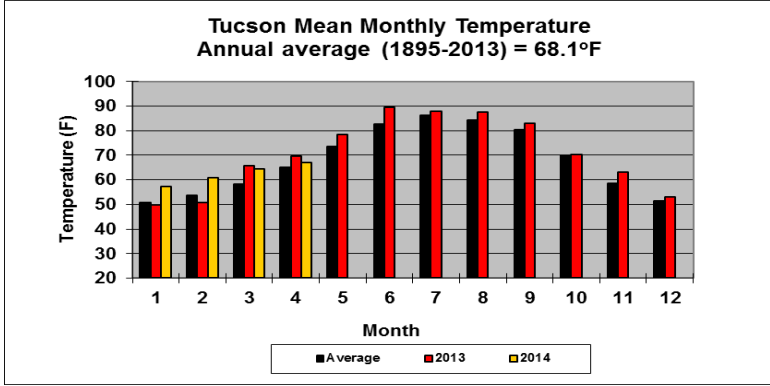
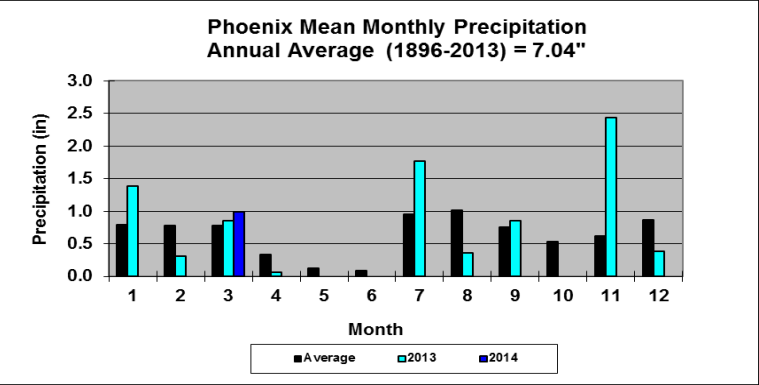
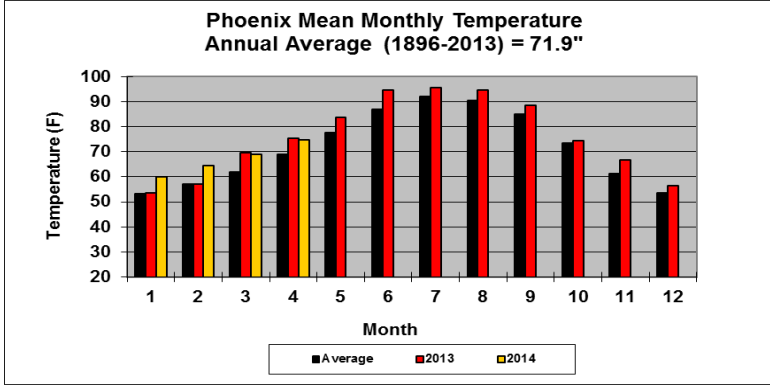
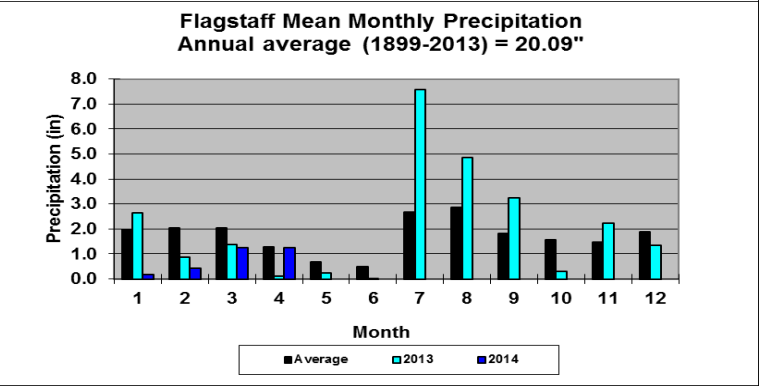
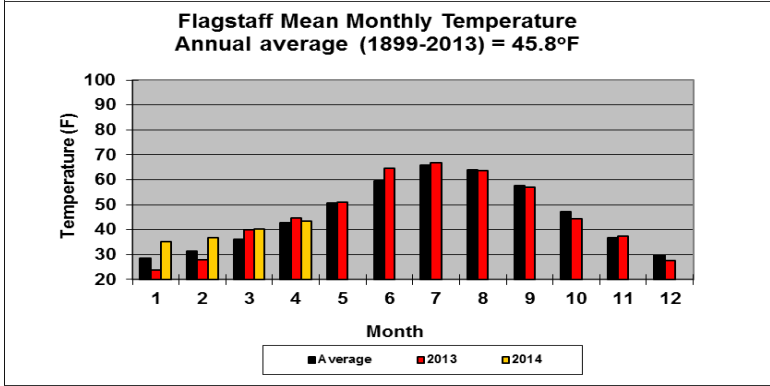
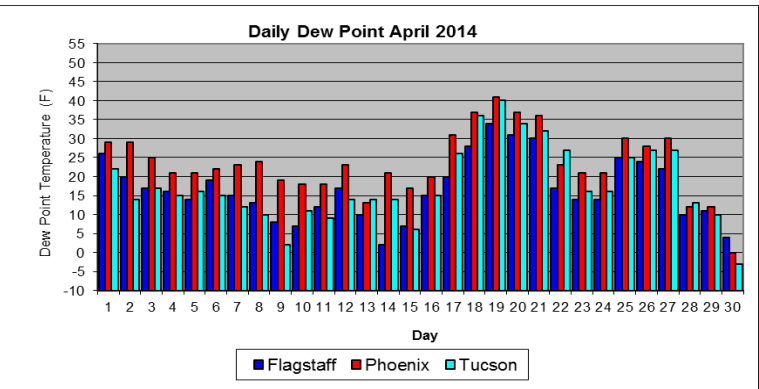
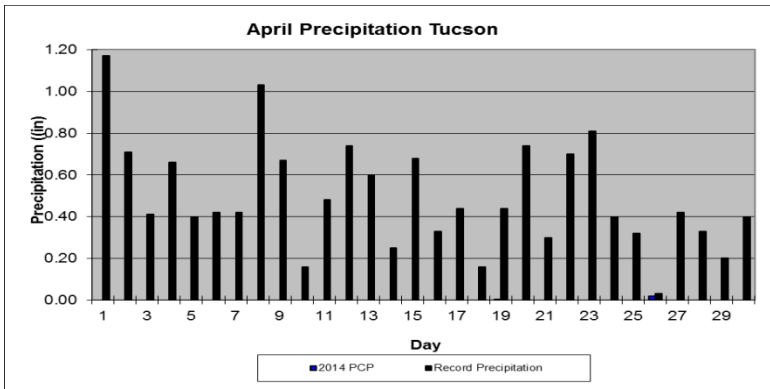
State Climate Office
Dr. Nancy J. Selover, State Climatologist
<http://azclimate.asu.edu> Tel: 480-965-6265
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School of Geographical Sciences & Urban Planning
Arizona State University
Tempe, AZ 85287-1508
Edited by Nancy J. Selover & Richard Ames

April 2014 Daily Temperature, Precipitation, & Dew Point for Flagstaff, Phoenix, and Tucson





FLAGSTAFF CLIMATE STATISTICS

April 2014

This April had no significant ranking in temperature or precipitation.

Avg Max Temp (F) 59.8 Normal 58.2
 Avg Min Temp (F) 27.1 Normal 28.5
 Avg Mean Temp (F) 43.5 Normal 43.3
 Departure from Normal (F) 0.2

Highest Monthly Avg Temp (F) 50.4 in 1989
 Lowest Monthly Avg Temp (F) 36.2 in 1975

Highest Temp this month (F): 71 on 9th, 10th
 Lowest Temp this month (F): 17 on 3rd, 15th

Record High (F): 80 on 04/28/1992
 04/07/1989

Record Low (F): -2 on 04/02/1975

No temperature or precipitation records this month.

Flagstaff Number of Days of:

Minimum Temp 35°F or higher 2
 Minimum Temp 20°F or lower 4

Maximum Temp 70°F or higher 3
 Maximum Temp 40°F or lower 1

Heating Degree Days 639 Normal 649
 Cooling Degree Days 0 Normal 0
 Degree base 65°F

Total April Precipitation 1.25"
 Normal April Precipitation 1.15"
 Departure from normal 0.10"
 Greatest 24-Hr Precipitation 0.90" on 04/26-26
 Total Precipitation Year-to-Date 3.09"
 Departure from Normal -4.39"

Number of Days:

Clear 25
 Partly Cloudy 3
 Cloudy 2

Greatest April Precipitation 5.62" in 1965
 Least April Precipitation 0.00" in 1991

Average Wind Speed 9.4 mph
 Highest Peak Gust 54 mph from 210° on 13th

PHOENIX CLIMATE STATISTICS

April 2014

This April was the 11th warmest on record, but had no significant ranking in precipitation.

Avg Max Temp(F) 87.4 Normal 85.2
 Avg Min Temp(F) 62.3 Normal 60.2
 Avg Mean Temp (F) 74.8 Normal 72.7
 Departure from Normal (F) 2.1

Highest Monthly Avg Temp (F) 80.0 in 1989
 Lowest Monthly Avg Temp (F) 62.4 in 1967

Highest Temp this month (F): 98 on 21st, 10th
 Lowest Temp this month (F): 50 on 3rd

Record High (F): 105 on 04/22/2012
 04/29/1992 04/20/1989

Record Low (F): 35 on 04/10/1922

No temperature or precipitation records this month.

Phoenix Number of Days of:

Minimum Temp 50°F or lower 1
 Minimum Temp 70°F or higher 3
 Maximum Temp 75°F or lower 2
 Maximum Temp 95°F or higher 5

Heating Degree Days 5 Normal 20
 Cooling Degree Days 306 Normal 251
 Degree base 65°F

Total April Precipitation T
 Normal April Precipitation 0.28"
 Departure from normal -0.28"
 Greatest 24-Hr Precipitation T on 4/26-26
 Total Precipitation Year-to-Date 0.99"
 Departure from Normal -2.11"

Number of Days:
 Clear 16
 Partly Cloudy 14
 Cloudy 0

Greatest April Precipitation 3.36" in 1926
 Least April Precipitation 0.00" in 2014 and 30 other years

Average Wind Speed 7.8 mph
 Highest Peak Gust 42 mph from 20° on 30th

TUCSON CLIMATE STATISTICS
 April 2014

This April was the 14th warmest on record, but had no significant ranking in precipitation.

Avg Max Temp(F) 84.2 Normal 82.1
 Avg Min Temp(F) 54.3 Normal 52.0
 Avg Mean Temp(F) 69.2 Normal 67.0
 Departure from Normal (F) 2.2

Highest Monthly Avg Temp (F) 73.8 in 1989
 Lowest Monthly Avg Temp (F) 57.8 in 1975

Highest Temp this month (F): 95 on 10th
 Lowest Temp this month (F): 43 on 4th

Record High (F): 104 on 04/21/1989
 04/20/1989

Record Low (F): 27 on 04/04/1945

Temperature or precipitation records this month.
 11th HiMin 65 set, previous record 63 in 1931

Tucson Number of Days of:
 Minimum Temp 45°F or lower 2
 Minimum Temp 60°F or higher 6
 Maximum Temp 70°F or lower 2
 Maximum Temp 95°F or higher 1

Heating Degree Days 24 Normal 60
 Cooling Degree Days 158 Normal 121
 Degree base 65°F

Total April Precipitation 0.02"
 Normal April Precipitation 0.31"
 Departure from normal -0.29"
 Greatest 24-Hr Precipitation 0.02" on 04/26–26
 Total Precipitation Year-to-Date 0.61"
 Departure from Normal -2.23"

Greatest April Precipitation 3.53" in 1905
 Least April Precipitation 0.00" in 2006 and 25 other years

Number of Days:
 Clear 27
 Partly Cloudy 1
 Cloudy 0

Average Wind Speed 8.0 mph
 Highest Peak Gust 43 mph from 260° on 26th

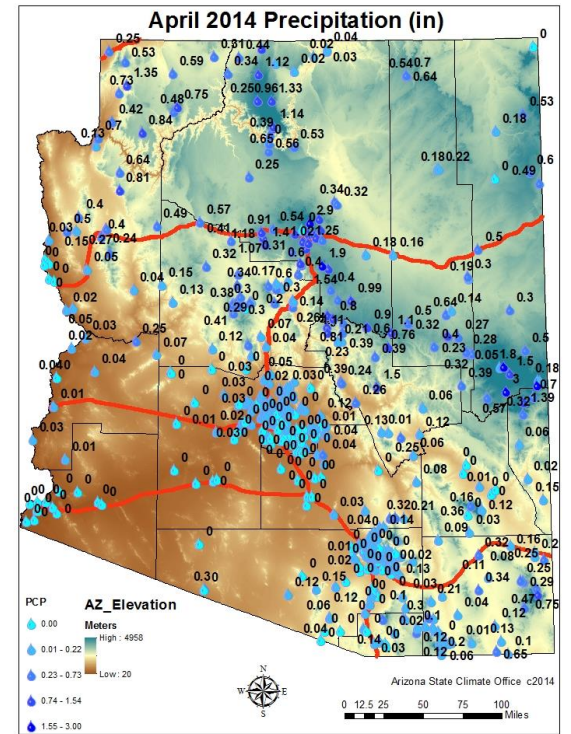
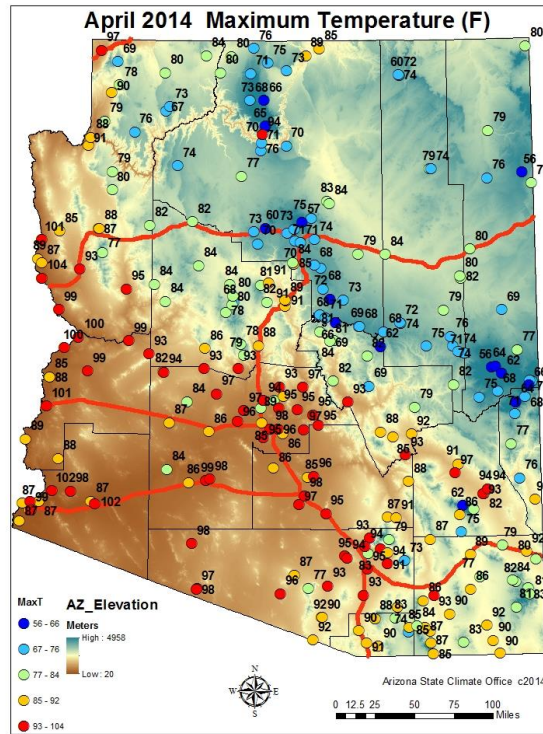
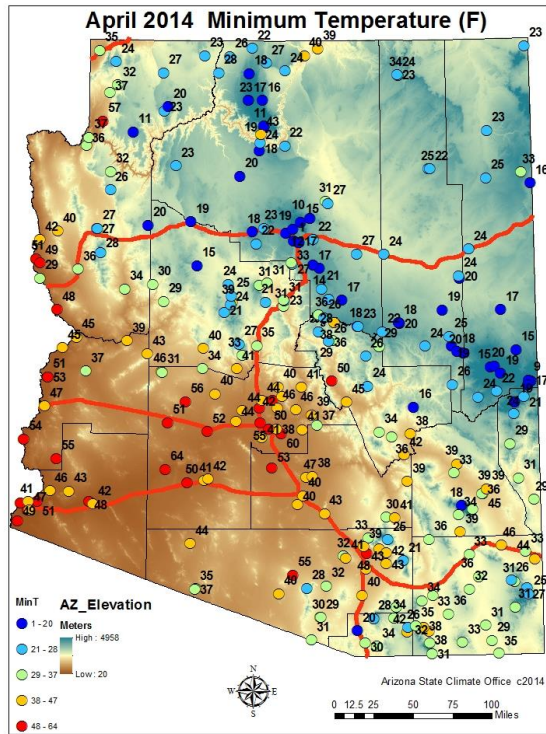
Data are from the National Weather Service and the National Climatic Data Center and are **preliminary**.

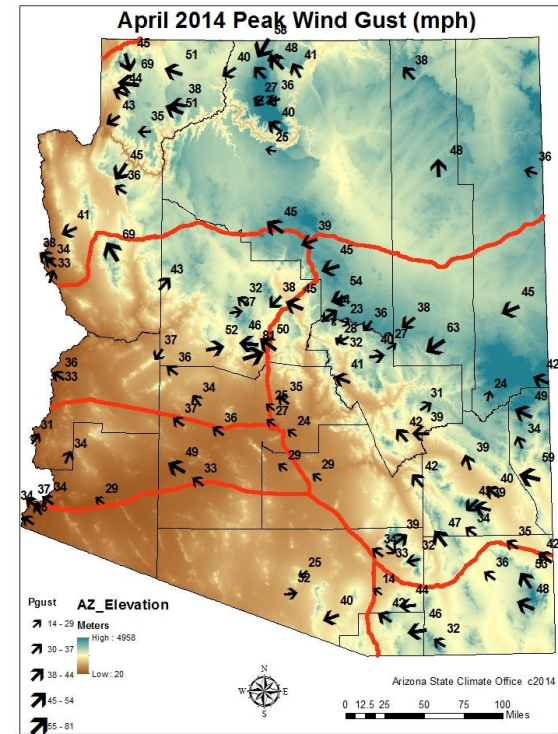
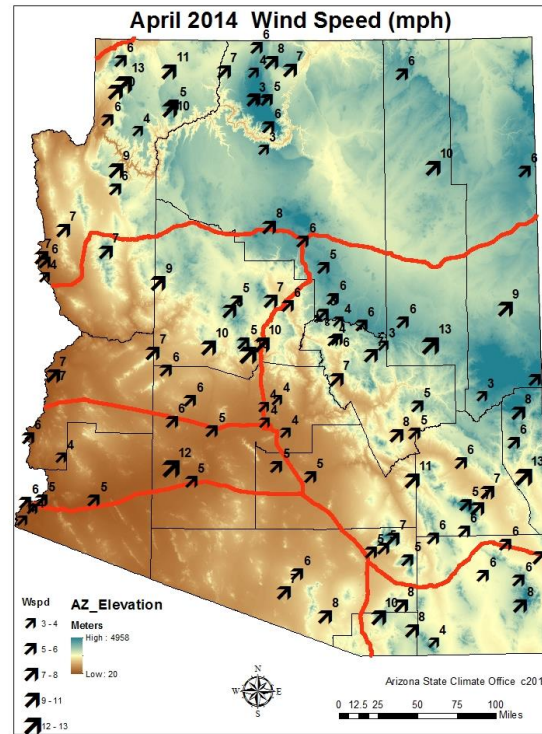
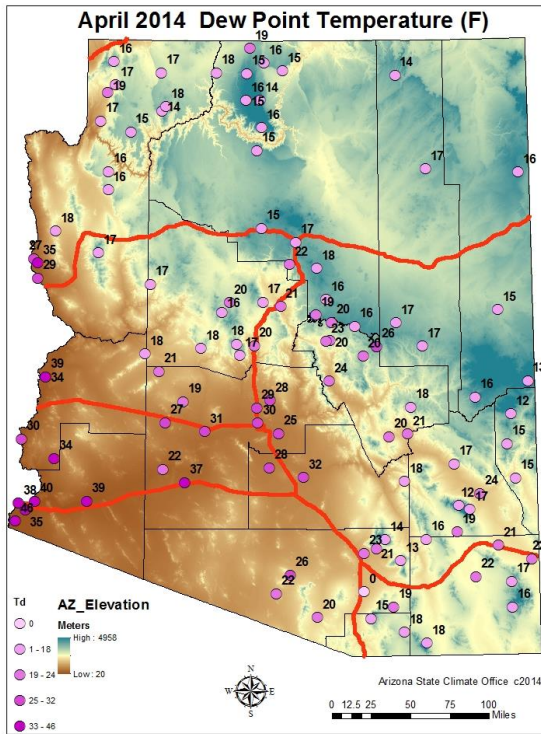
Wind Speeds:

Day	Phoenix		Flagstaff		Tucson	
	Avg	Max	Avg	Max	Avg	Max
1	10.9	32	23.3	52	12	35
2	10.9	30	14.2	43	10.6	31
3	4.5	17	4.6	22	6.5	21
4	5.9	17	6.1	26	6.4	28
5	7.4	24	4.2	25	6.3	26
6	7.7	23	3.9	24	7.2	32
7	4.3	19	6.2	30	7.1	26
8	4.9	15	3	27	7	18
9	5.6	18	6.7	30	6.9	20
10	6.6	19	7.8	35	7.1	27
11	6.3	18	8.1	34	8.1	30
12	8.1	25	9.9	39	11.7	35
13	10	29	12.6	54	10.1	32
14	8.4	27	13.8	42	5.5	17
15	4.7	17	5.7	27	8	33
16	7	22	5.8	32	7.6	25
17	5.5	15	5.2	27	6.1	19
18	8.3	39	6.1	38	7.7	32
19	3	21	4.6	33	7.7	31
20	5.9	19	3.1	19	6.1	25
21	4.8	20	3.9	23	5	17
22	9.3	34	15.3	49	8.1	32
23	10.3	30	8.9	31	9.7	31
24	5.5	19	6.8	29	6.3	26
25	10.9	28	16.4	46	11.6	32
26	15.8	41	16.4	41	12.9	43
27	6.3	24	8.5	33	6.7	21
28	8.5	32	7.2	31	7.1	30
29	12.9	33	20.1	45	9.9	32
30	13	42	24.1	50	6	24

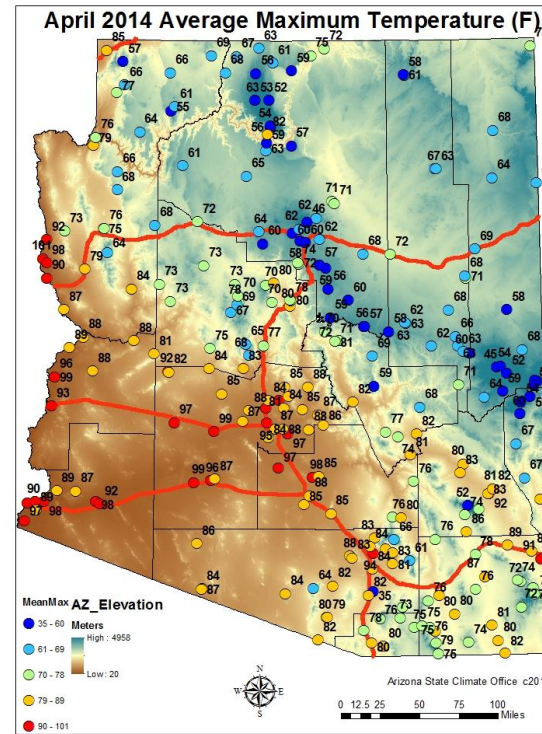
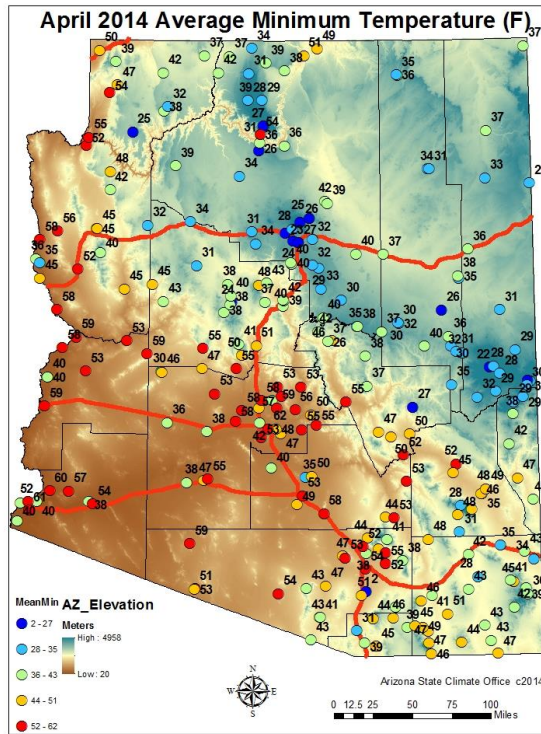
Dew Points for April:**Daily Average Dew Point (°F):**

Day	Phx	Tuc	Flg
1	29	22	26
2	29	14	20
3	25	17	17
4	21	15	16
5	21	16	14
6	22	15	19
7	23	12	15
8	24	10	13
9	19	2	8
10	18	11	7
11	18	9	12
12	23	14	17
13	13	14	10
14	21	14	2
15	17	6	7
16	20	15	15
17	31	26	20
18	37	36	28
19	41	40	34
20	37	34	31
21	36	32	30
22	23	27	17
23	21	16	14
24	21	16	14
25	30	25	25
26	28	27	24
27	30	27	22
28	12	13	10
29	12	10	11
30	0	-3	4





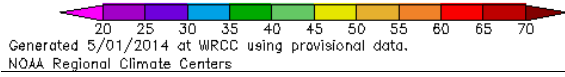
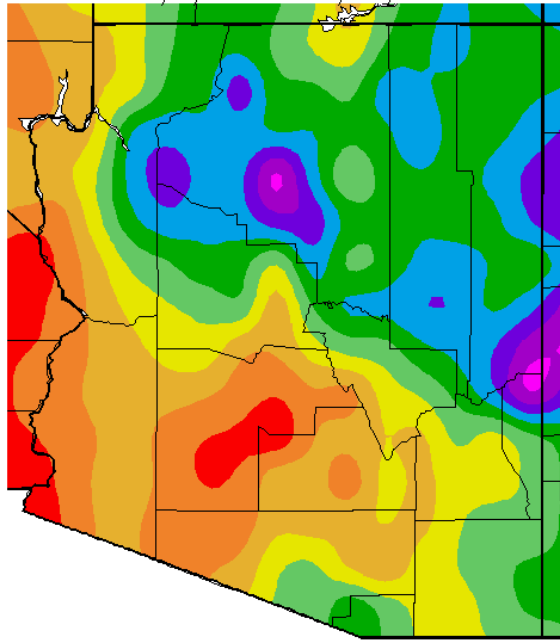
The lowest minimum temperature was 1°F at Flagstaff, and the highest minimum was 64°F at Oatman. The lowest maximum temperature of 45°F was recorded at Sunrise Mountain, while the highest maximum temperature of 104°F was reported at Havasu. The lowest rainfall amount was 0.00” at most stations in Arizona and the highest was 3.00” at Wildcat in the White Mountains. The lowest dew point was 12°F at Columbine and Stray Horse and the highest was 49°F at Yuma. The highest peak wind gust was 81 mph at Humbug Creek.



April 2014

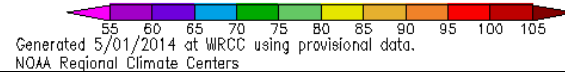
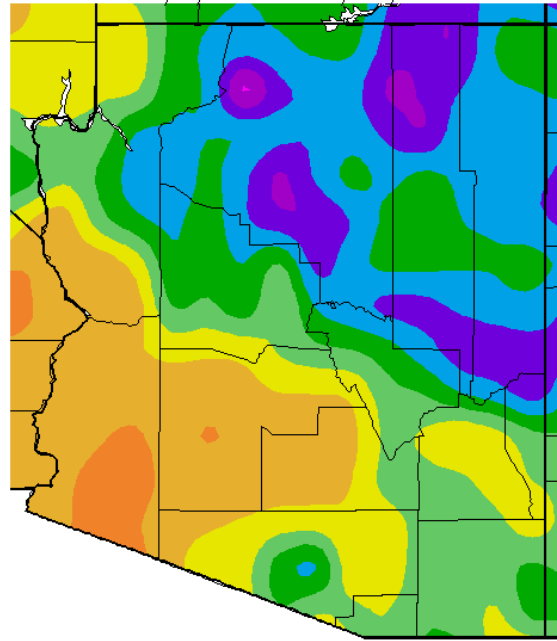
The highest average minimum temperature was 64°F at Phoenix Sky Harbor AP, and the lowest average minimum temperature was 16°F at Alpine. The highest average maximum temperature was 96°F at Gila Bend and lowest average maximum temperature was 45°F at Sunrise Mountain.

Av. Min. Temperature (deg. F)
4/1/2014 - 4/30/2014



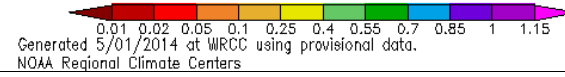
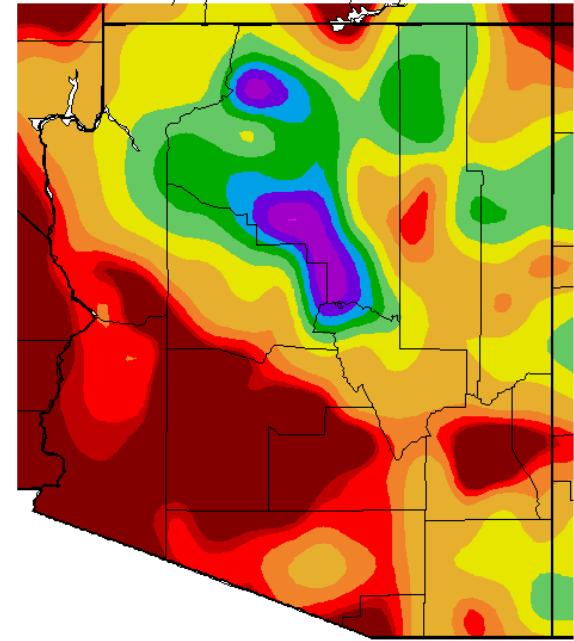
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NOAA Regional Climate Centers

Av. Max. Temperature (deg. F)
4/1/2014 - 4/30/2014



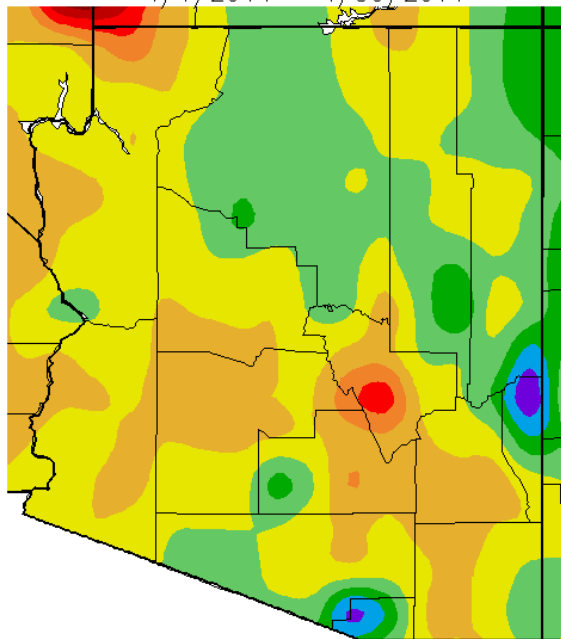
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Total Precipitation (in.)
4/1/2014 - 4/30/2014



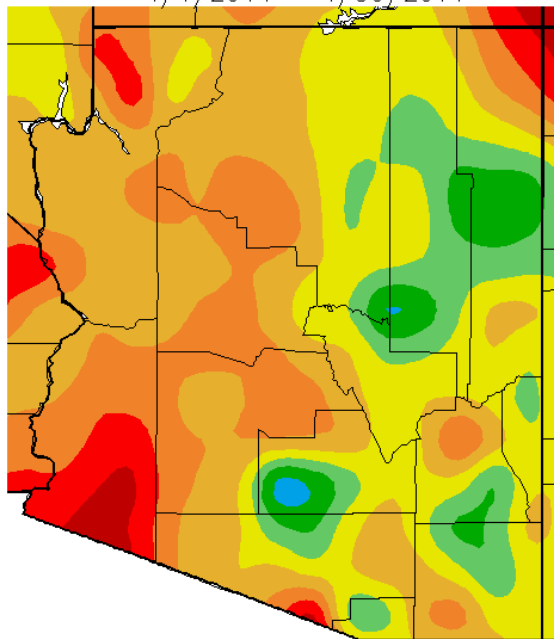
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Av. Min. Temperature dep from Ave (deg. F)
4/1/2014 – 4/30/2014



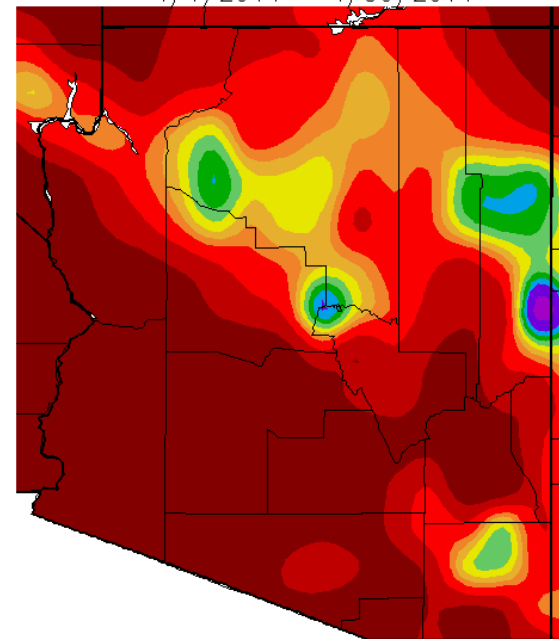
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Av. Max. Temperature dep from Ave (deg F)
4/1/2014 – 4/30/2014



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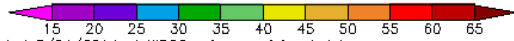
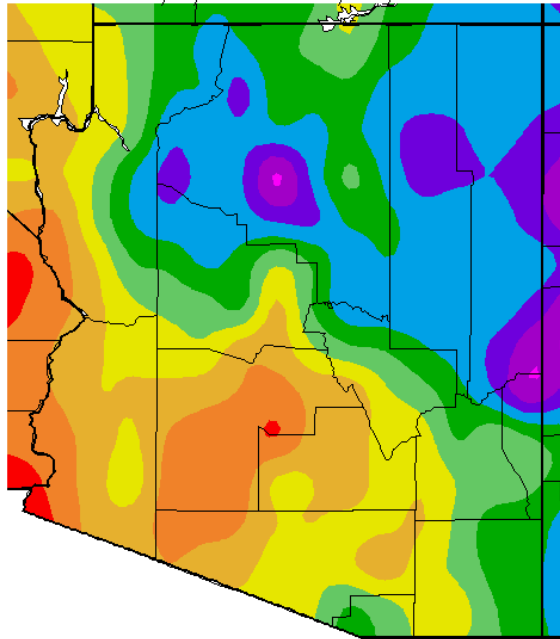
Percent of Average Precipitation (%)
4/1/2014 – 4/30/2014



25 50 70 80 90 100 110 120 130 150 175
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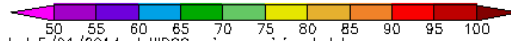
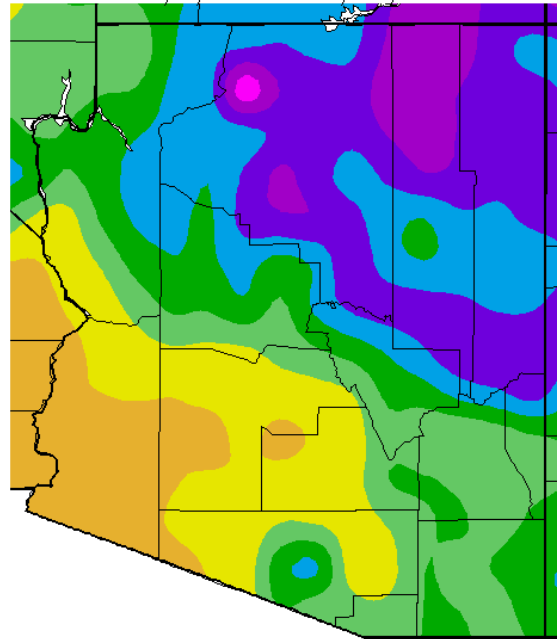
April minimum temperatures were cooler than normal on the Colorado Plateau and along the southern border and warmer than normal in central Arizona. Daytime temperatures were 1 to 4°F warmer than normal in the western half of the state and 0 to 2°F cooler than normal on the Colorado Plateau, and 0 to 3°F cooler than normal in western Pinal County. April precipitation was less than 25% of normal across the southwestern third of the state, and less than 70% of normal in most other areas. Southern Apache County was slightly wetter than normal for the month.

Av. Min. Temperature (deg. F)
1/1/2014 - 4/30/2014



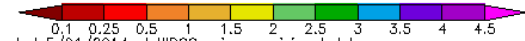
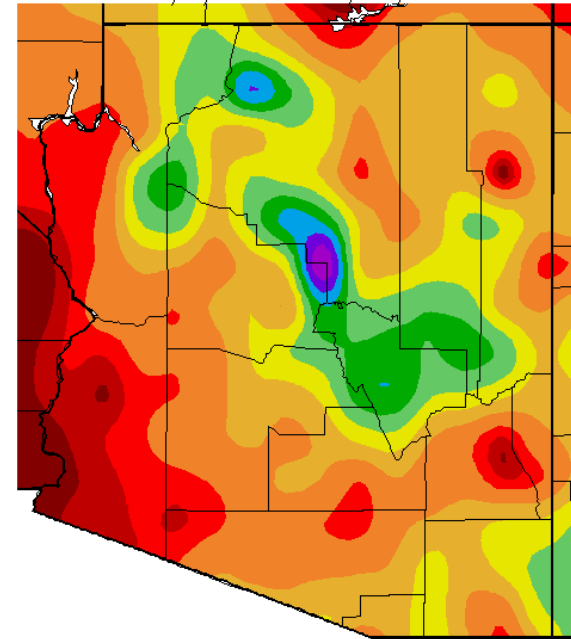
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Av. Max. Temperature (deg. F)
1/1/2014 - 4/30/2014



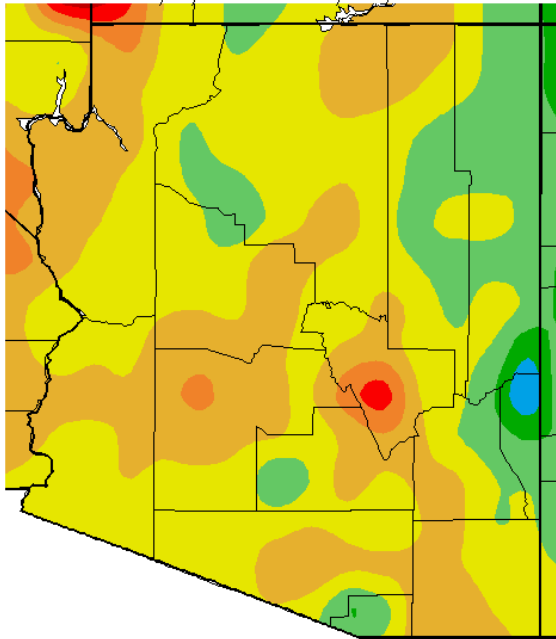
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Total Precipitation (in.)
1/1/2014 - 4/30/2014



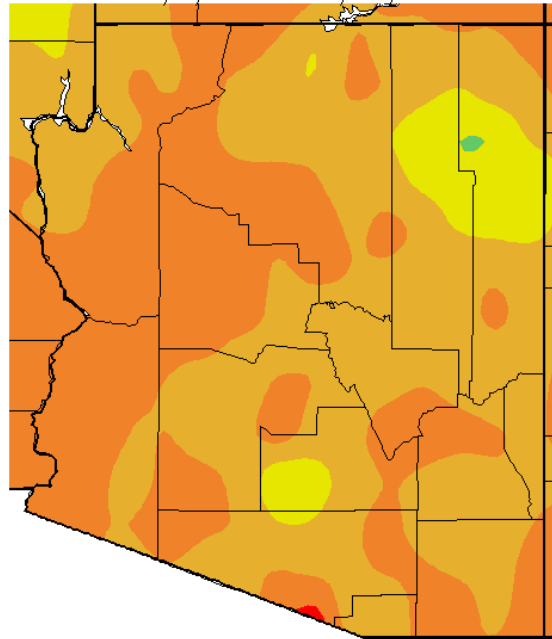
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Av. Min. Temperature dep from Ave (deg. F)
1/1/2014 – 4/30/2014



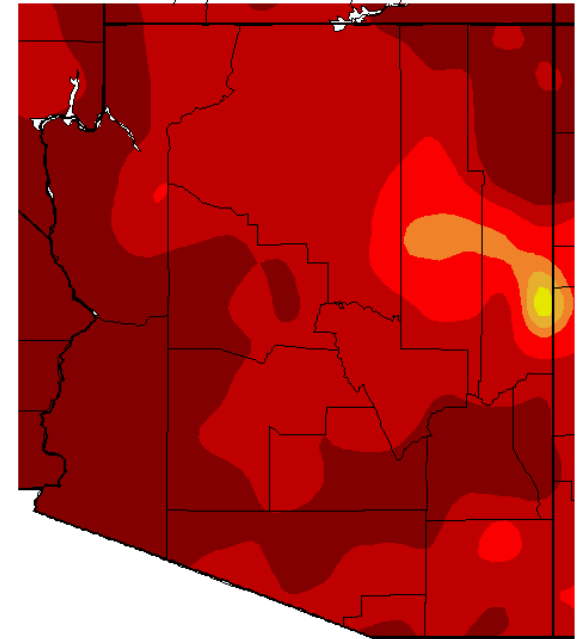
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Av. Max. Temperature dep from Ave (deg F)
1/1/2014 – 4/30/2014



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Percent of Average Precipitation (%)
1/1/2014 – 4/30/2014

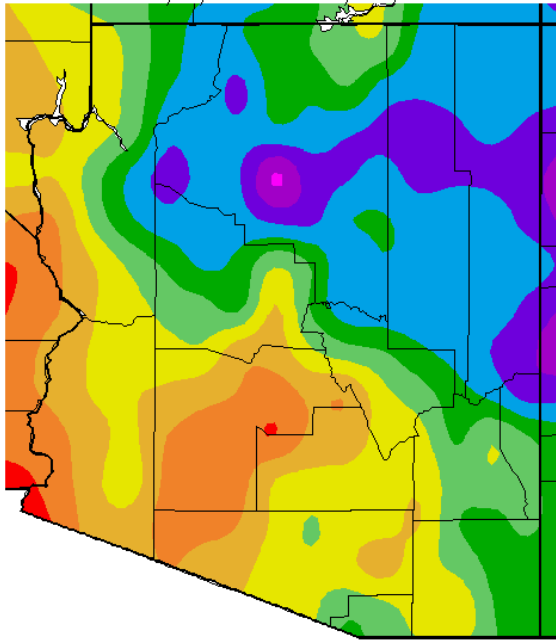


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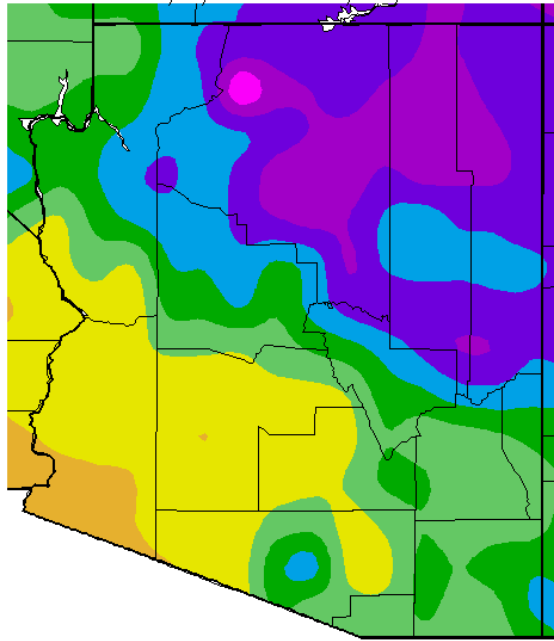
Calendar Year 2014

Calendar year minimum temperatures ranged from 2°F cooler than average to 4°F warmer than average with the coolest conditions along the eastern border. The warmest nighttime temperatures were still in Gila County. Daytime highs were 2 to 6°F warmer than normal with the Colorado Plateau slightly cooler than the rest of the state. Precipitation so far this year has been less than 50% of normal statewide, and less than 25% of normal in Yuma, La Paz, western Mohave, Yavapai, and Maricopa counties. The Mogollon Rim has been the wettest place, but still less than 70% of normal.

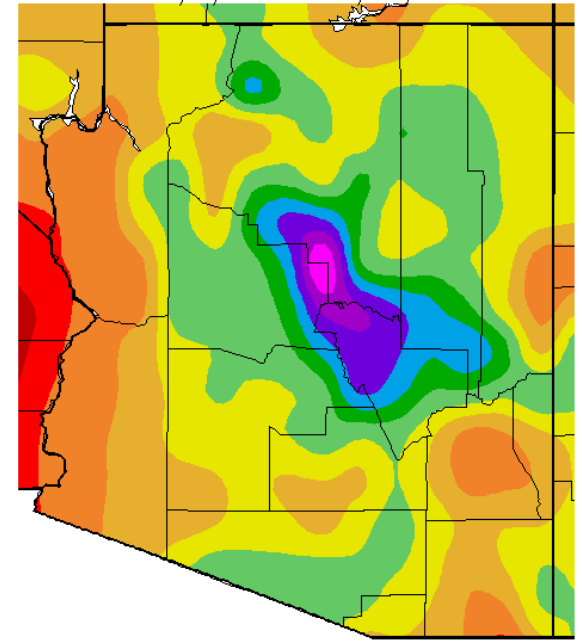
Av. Min. Temperature (deg. F)
10/1/2013 - 4/30/2014



Av. Max. Temperature (deg. F)
10/1/2013 - 4/30/2014



Total Precipitation (in.)
10/1/2013 - 4/30/2014

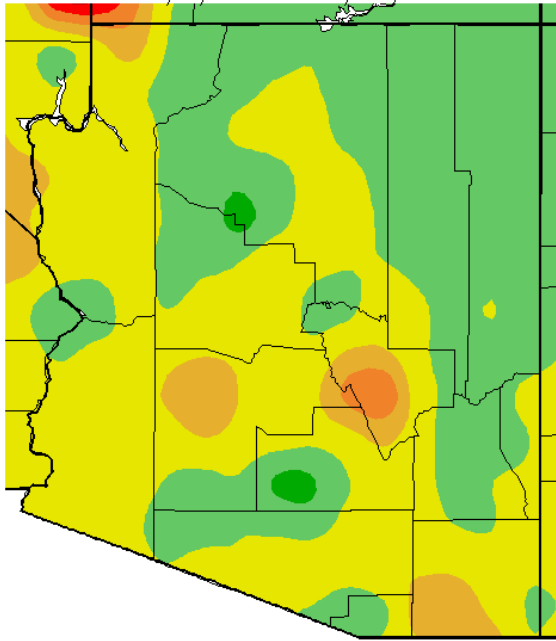


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Generated 5/01/2014 at WRCC using provisional data.
NOAA Regional Climate Centers

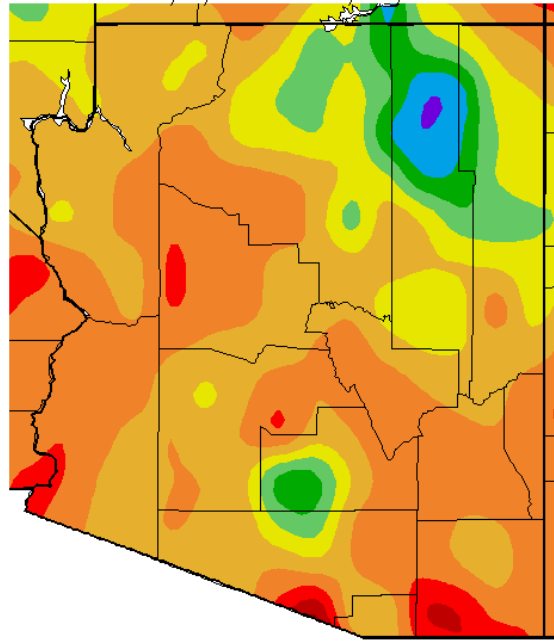
0.1 0.5 1 2 3 4 5 6 7 8 9
Generated 5/01/2014 at WRCC using provisional data.
NOAA Regional Climate Centers

Av. Min. Temperature dep from Ave (deg. F)
10/1/2013 - 4/30/2014



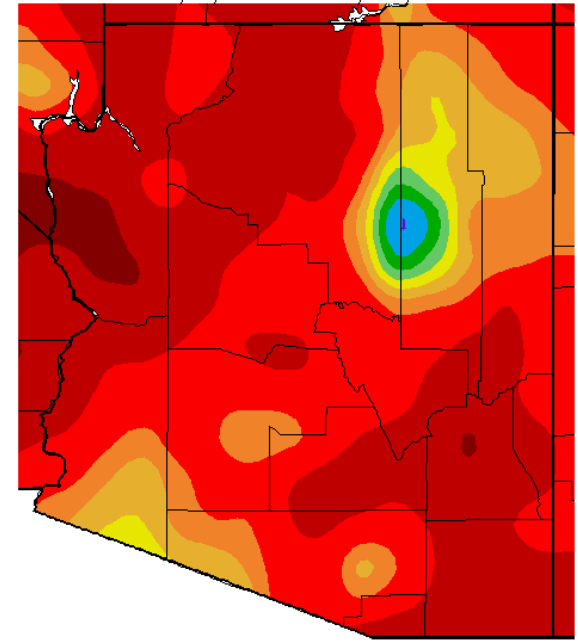
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Generated 5/01/2014 at WRCC using provisional data.
NOAA Regional Climate Centers

Av. Max. Temperature dep from Ave (deg F)
10/1/2013 - 4/30/2014



-5 -4 -3 -2 -1 0 1 2 3 4 5
Generated 5/01/2014 at WRCC using provisional data.
NOAA Regional Climate Centers

Percent of Average Precipitation (%)
10/1/2013 - 4/30/2014

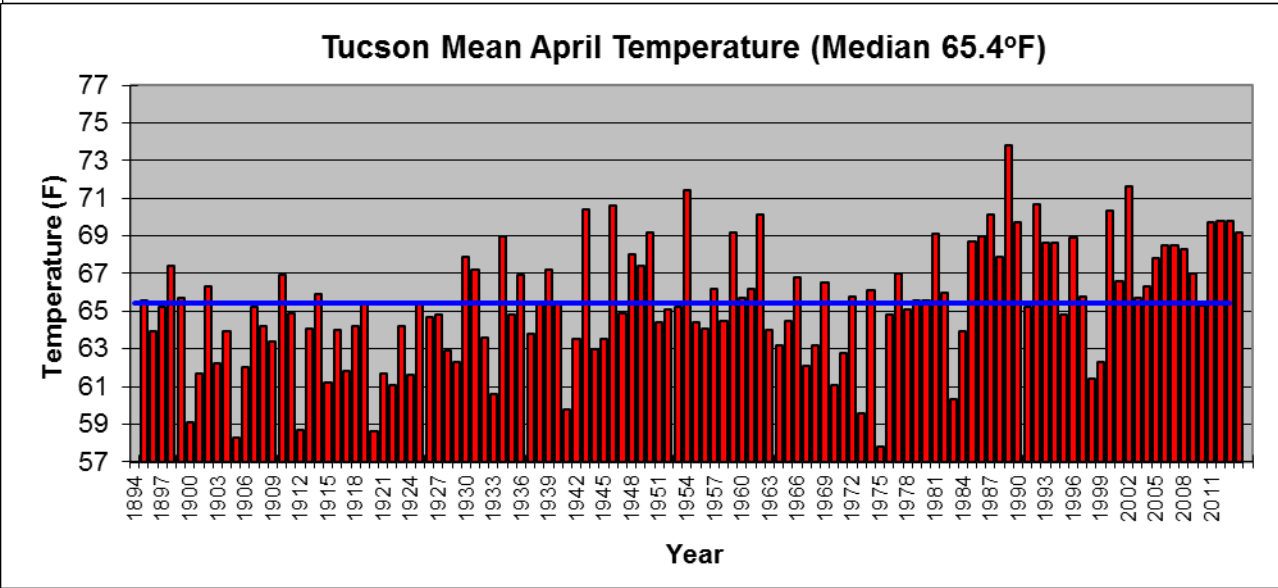
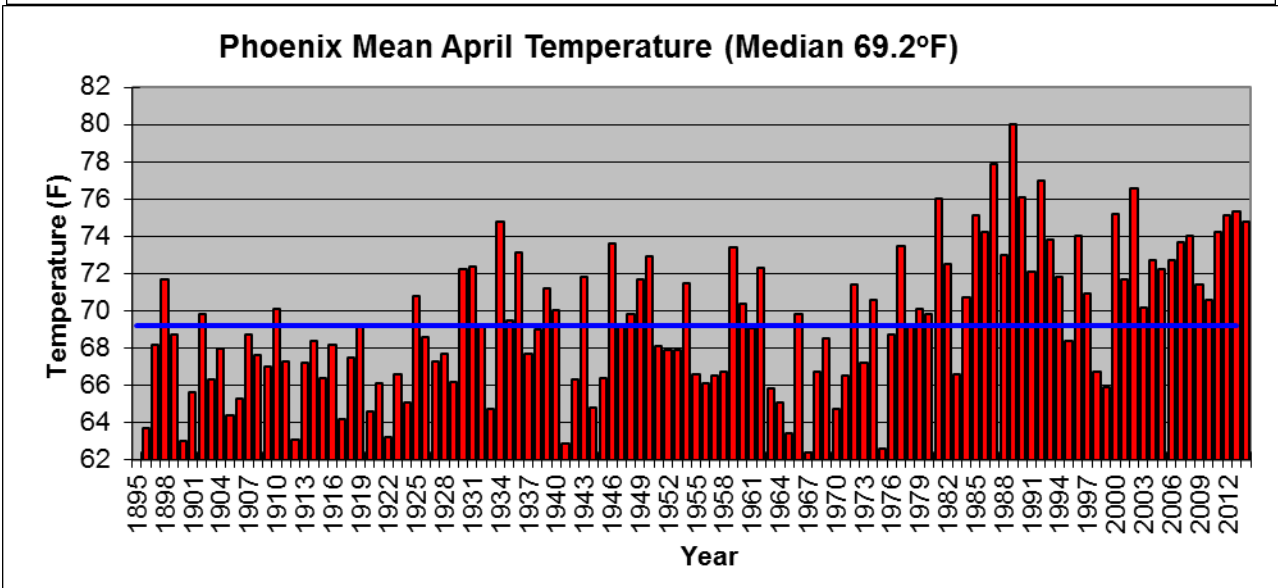
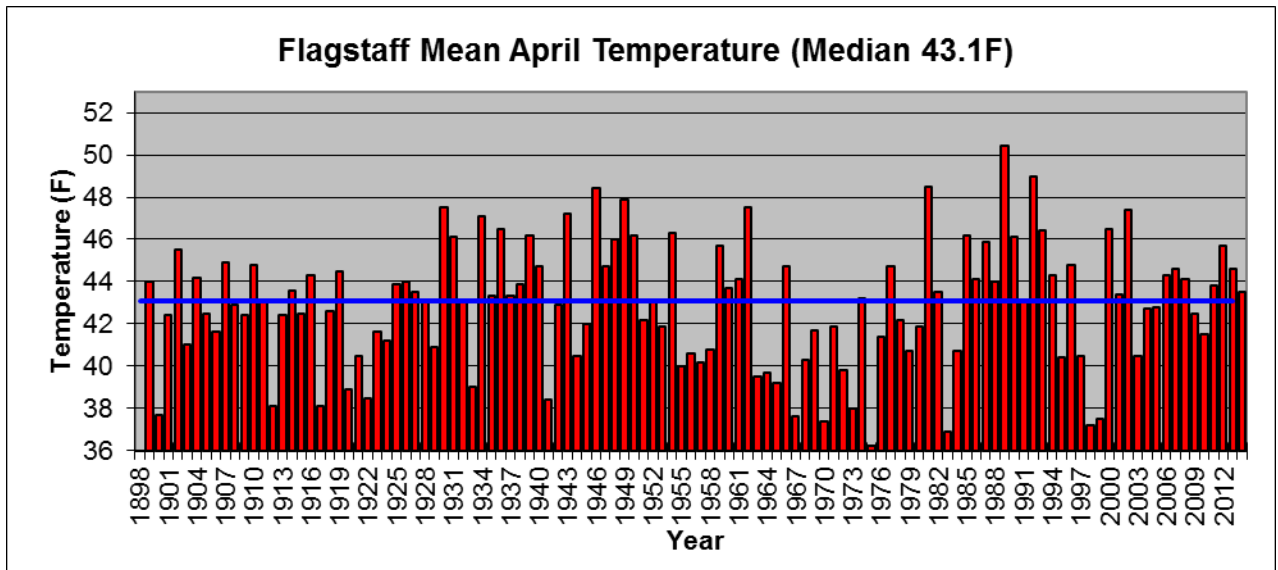


25 50 70 80 90 100 110 120 130 150 175
Generated 5/01/2014 at WRCC using provisional data.
NOAA Regional Climate Centers

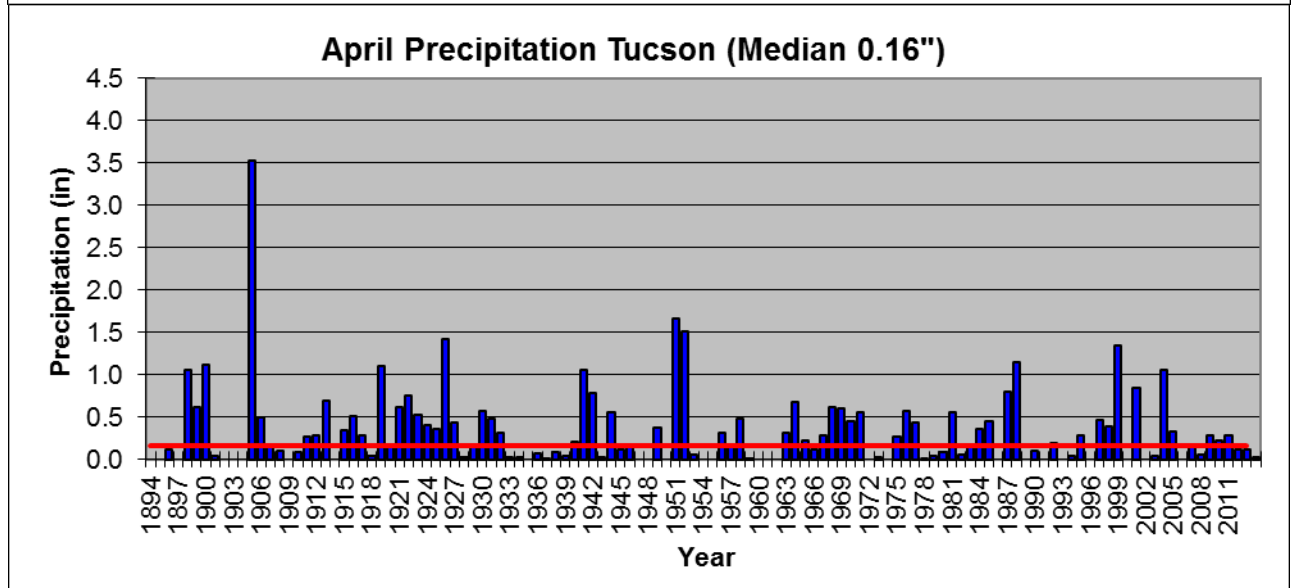
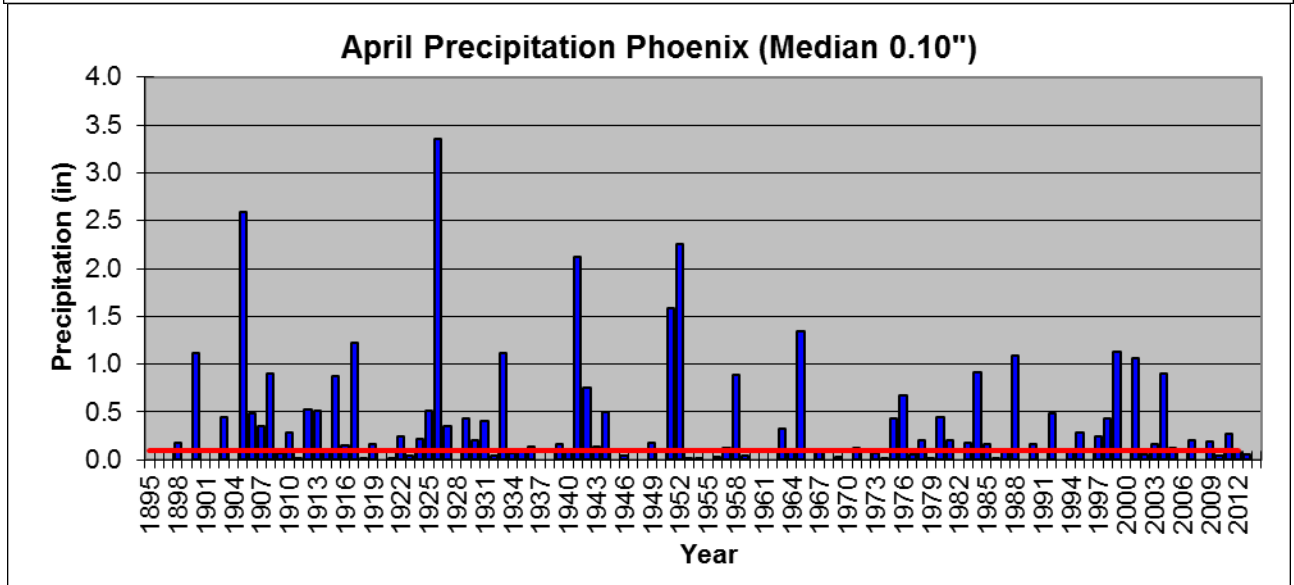
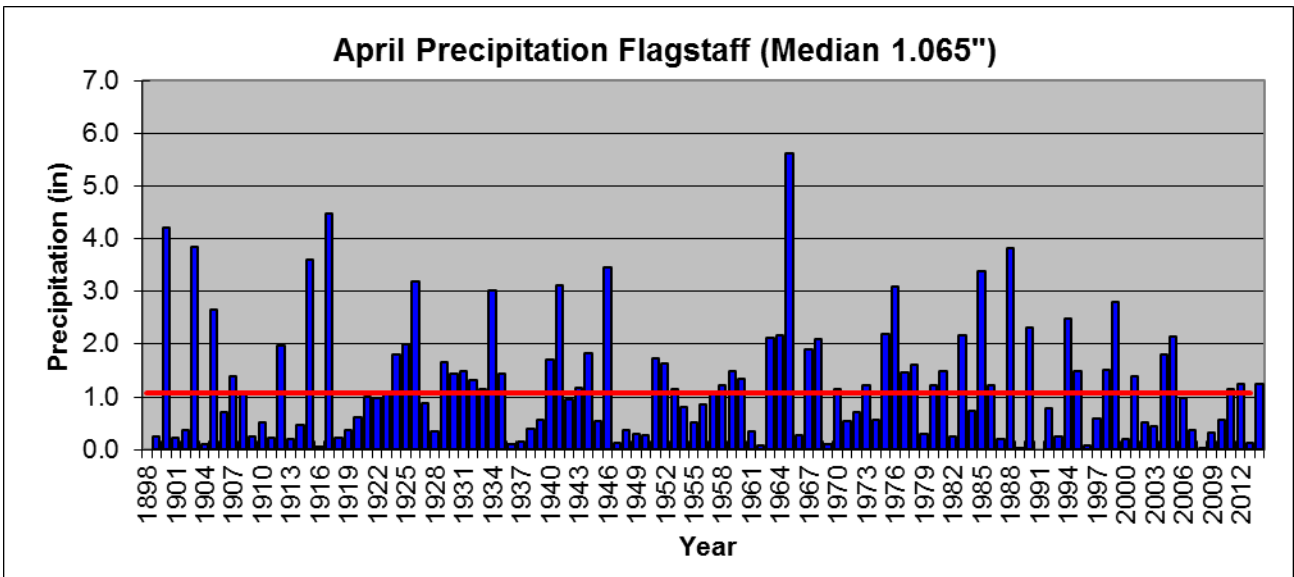
2014 Water Year

Minimum temperatures continue to be within 2°F of normal statewide. Daytime temperatures have been within 3°F of normal, with the warmest areas in the southeast and the northwest, and the coldest areas in northern Navajo County and western Pinal County. Dry conditions continue in the northwest and southeast, with the predominant storm track clearly visible from the southwest to the northeast and bull's-eye over southern Coconino and central Navajo counties.

April Mean Temperature Graphs – Flagstaff, Phoenix, and Tucson 1895-2014:

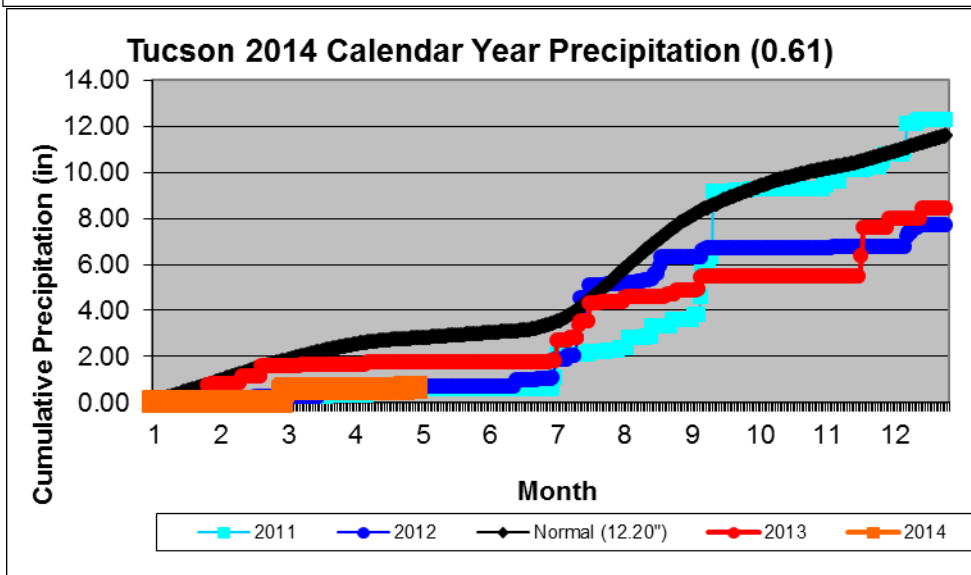
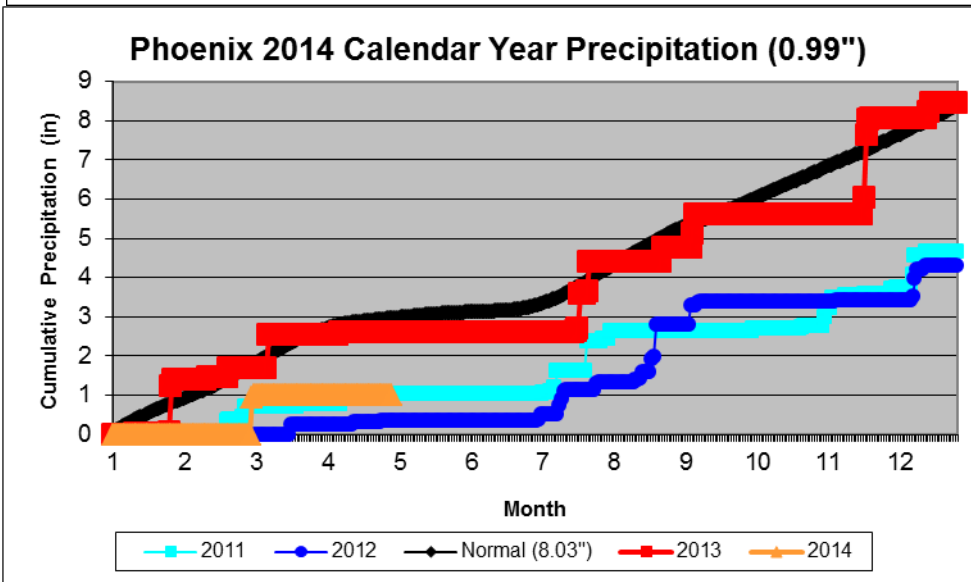
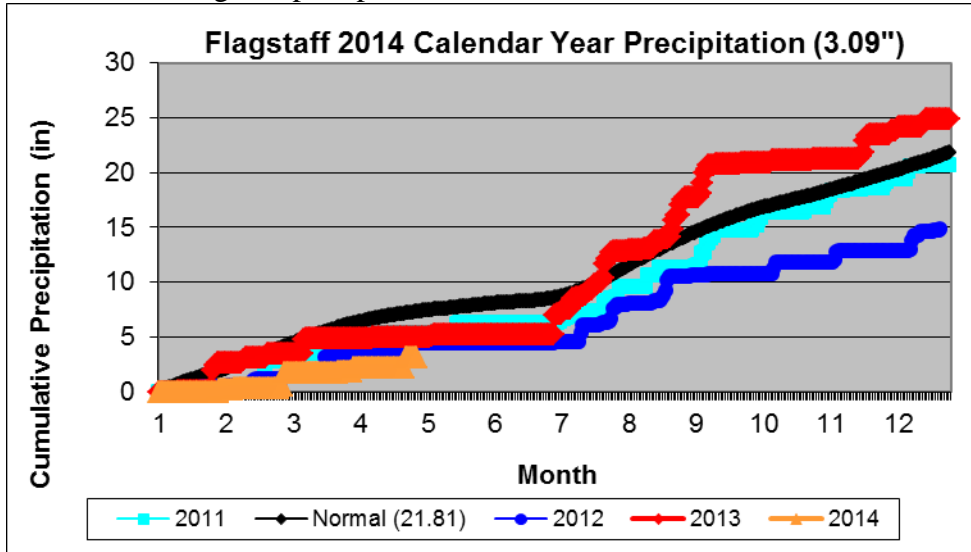


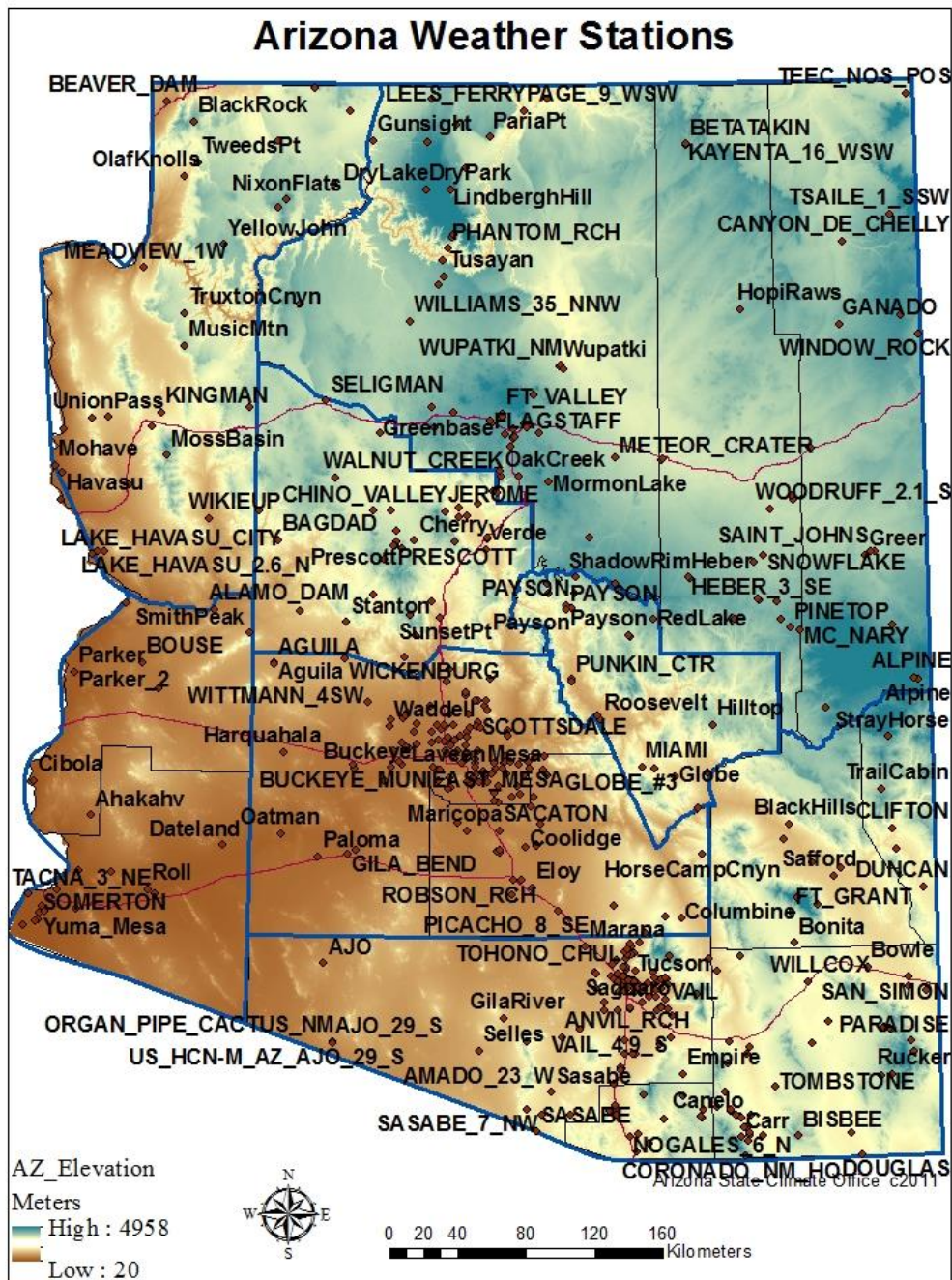
April Mean Precipitation Graphs – Flagstaff, Phoenix, and Tucson 1895-2014:



2014 Cumulative Precipitation Graphs – Flagstaff, Phoenix and Tucson:

All of Arizona is still well below average on precipitation, with southern Arizona the farthest behind.





The downloadable normals and extremes calendars use the following abbreviations:

NORM = 30 year (1971-2000) average value (degrees Fahrenheit (F))

OBS = The temperature observation for that day this year

AVG = Average daily temperature

HI MAX = Highest maximum temperature for that day (F)

LO MAX = Lowest maximum temperature for that day (F)

LO MIN = Lowest minimum temperature for that day (F)

HI MIN = Highest minimum temperature for that day (F)

Mx PCP = Maximum precipitation for that day (inches)

Mx SNO = Maximum snowfall for that day (inches)