



June 2014 Temperature and Precipitation Summary

June 1st – 14th: For the first week of June, Arizona experienced dry conditions with not even a trace of precipitation reported anywhere in the state. Temperatures on average were slightly above normal. Moving into the second week, a low pressure center making its way through the southwest generated some thunderstorm activity. Areas of north and northeast Phoenix reported a trace of rain on the 10th and 11th. Prescott also reported a trace of rainfall on the 11th; but no station had measurable rainfall until the 13th of June. In fact, the 13th and 14th were the only two days of the month that any measureable rain fell. On the 13th, Douglas had 0.05”, Bisbee-Douglas Airport had 0.04, and Safford had 0.01”, while on the 14th, Bisbee-Douglas Airport had another 0.04”. Several records were set or tied within the first two weeks in Phoenix and Tucson: three high minimum records in Phoenix and two high minimum records in Tucson. One high maximum record of 110°F was tied in Phoenix on the 2nd while Tucson set a new high maximum of 108°F on the 2nd and tied a high maximum of 107°F on the 3rd. Temperature and precipitation record details can be found in the Climate Statistics section of this report.

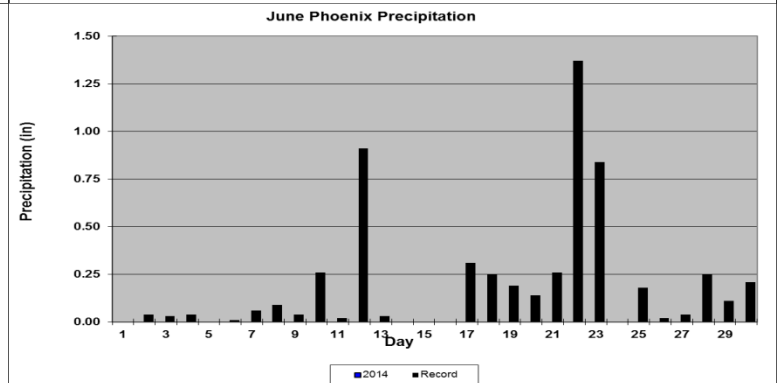
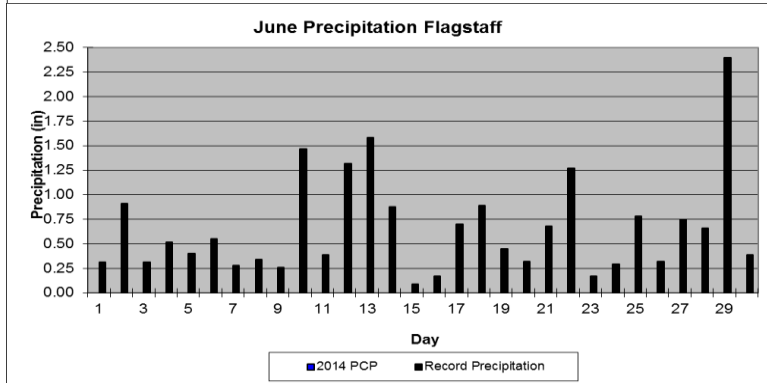
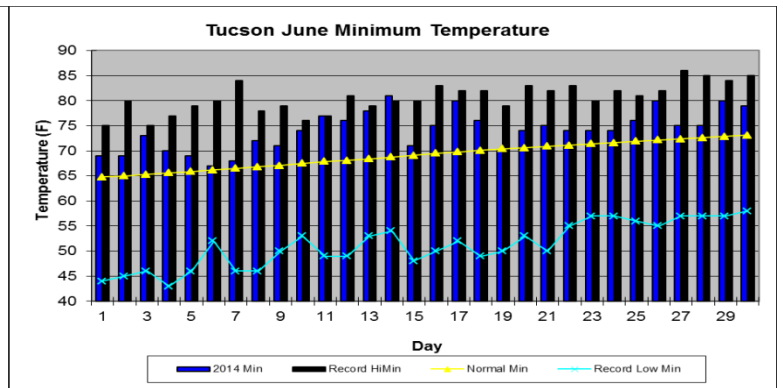
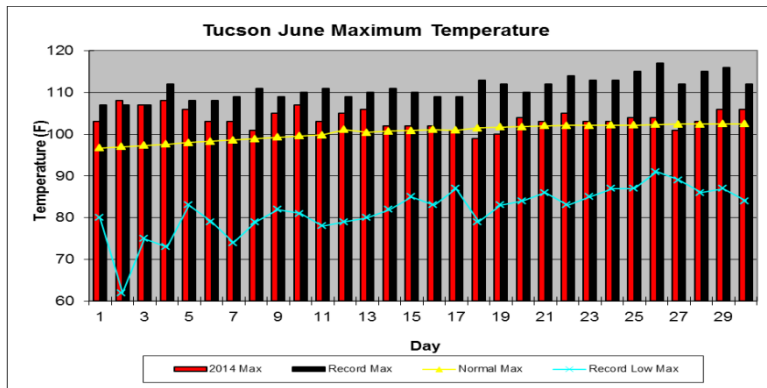
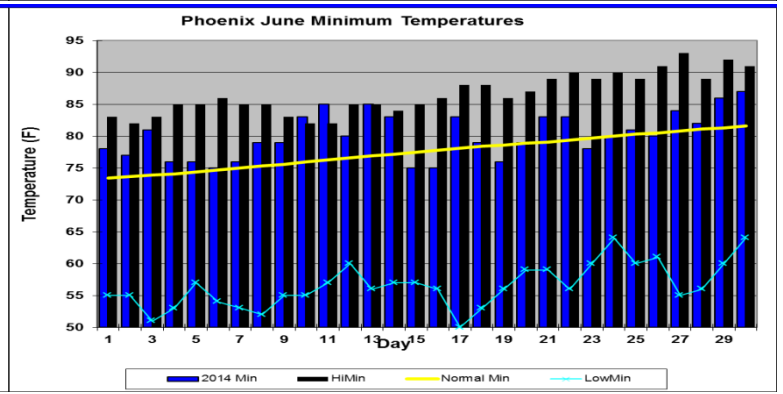
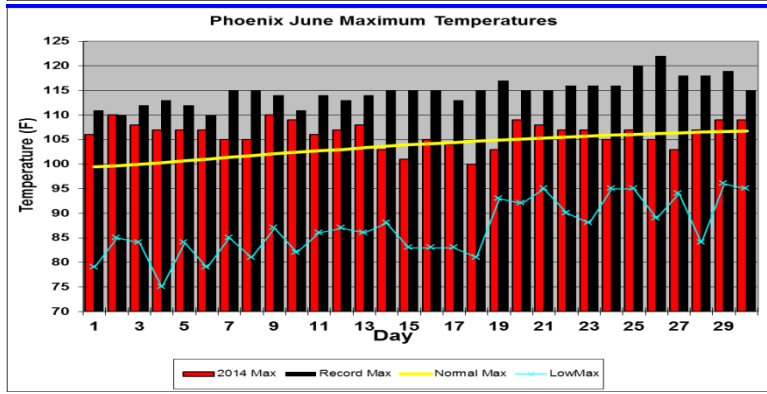
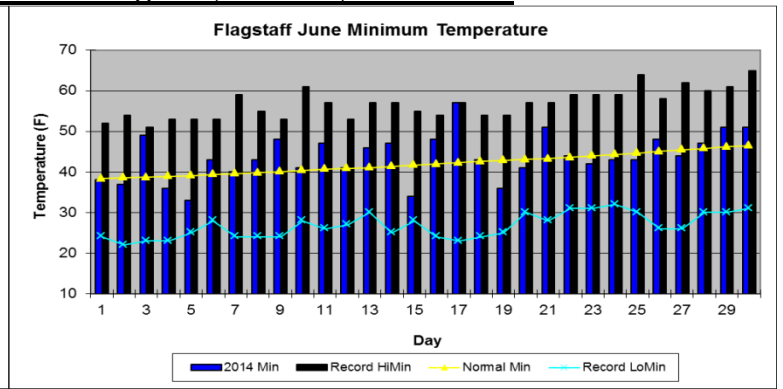
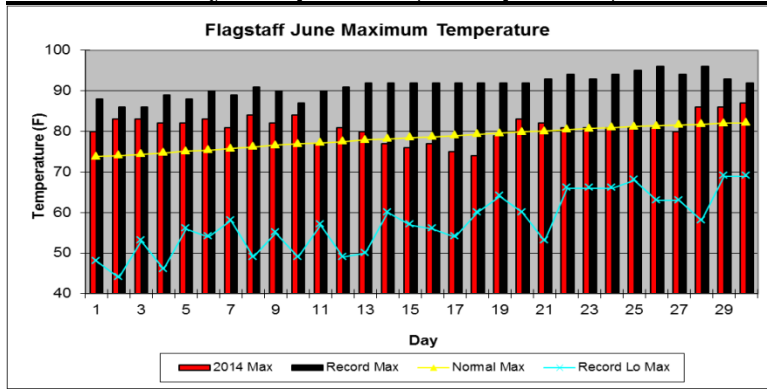
June 15th – 30th: The second half of the month was not quite as dry as the first half. As a trough in the jet stream moved over the southwest, thunderstorms developed over the southeastern part of the state, with rainfall amounts up to 0.15” in the Tucson area on the 17th and 18th. Things dried out again as westerly flow returned, though temperatures remained near normal through the end of the month. On the 29th, both Tucson and Flagstaff reported a trace of rain. Phoenix airport continued to have no measurable rain for the month of June. Regarding temperature records, Flagstaff tied a high minimum temperature of 57°F, first set in 1949.

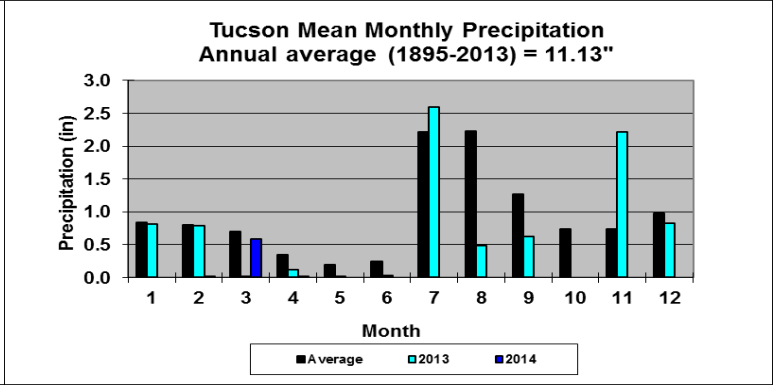
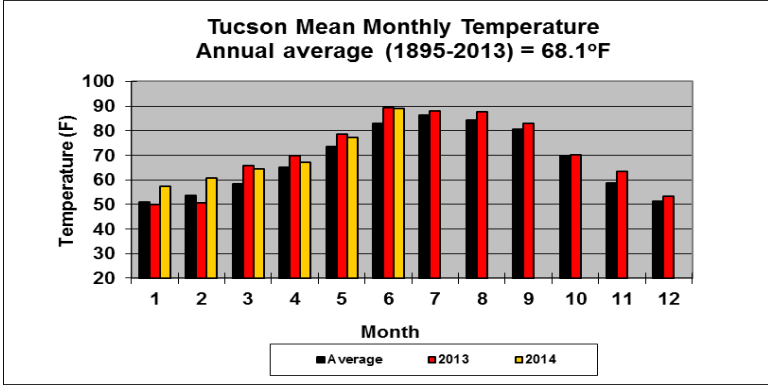
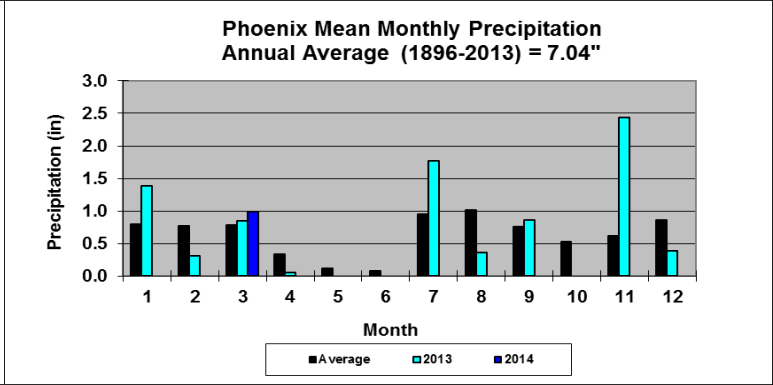
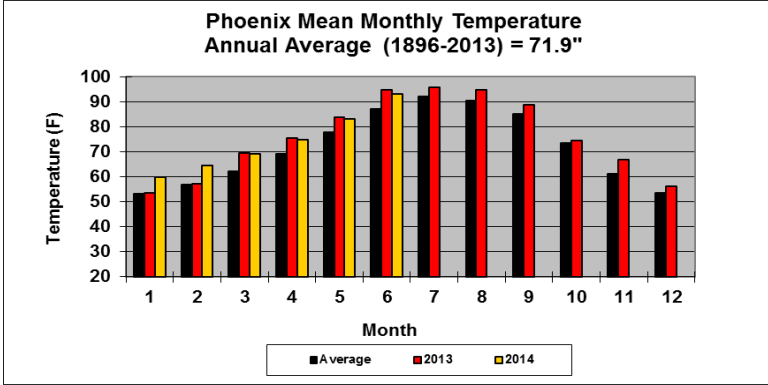
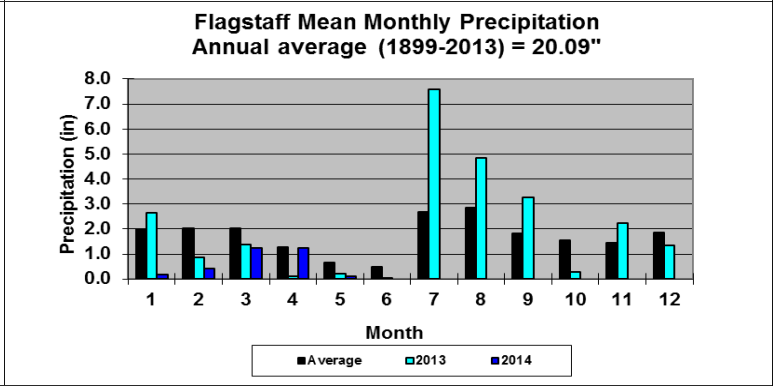
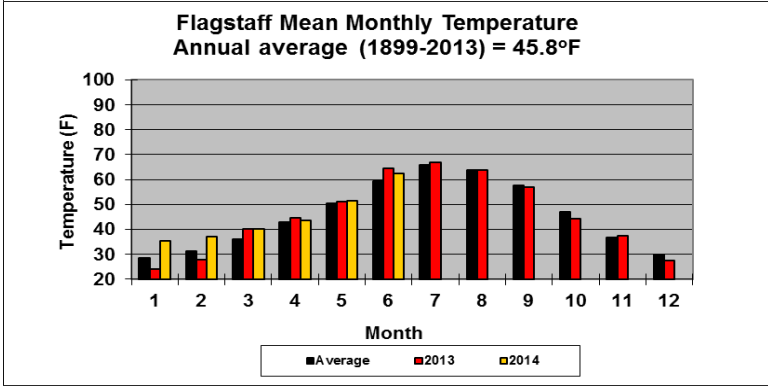
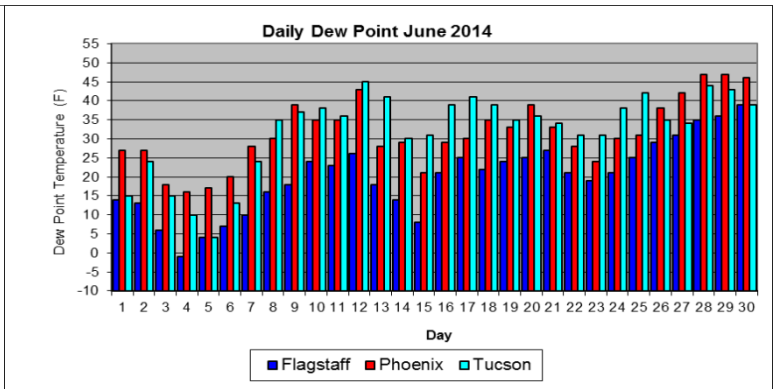
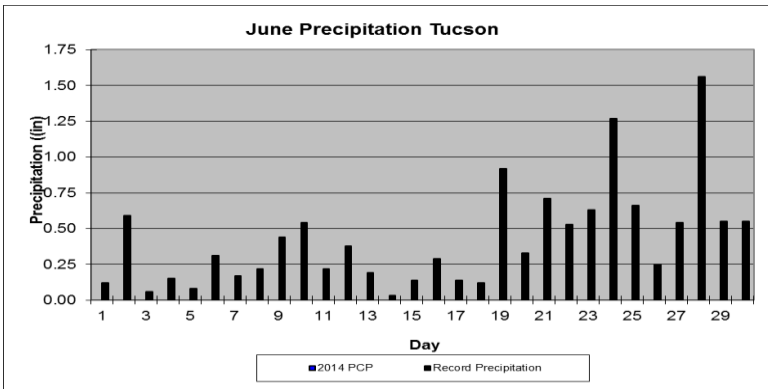
In This Issue: Overview of June, graphs of the June daily maximum and minimum temperatures, precipitation, mean daily dew points for Flagstaff, Phoenix, and Tucson; June climate statistics, maps of mean monthly maximum and minimum temperatures, precipitation, dew points, wind speeds for June; and graphs of the mean June 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.

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





FLAGSTAFF CLIMATE STATISTICS

June 2014

This June was the 15th warmest and was tied with 23 other years as the driest on record.

Maximum Temp 85°F or higher	3
Maximum Temp 75°F or lower	2

Avg Max Temp (F)	81.0	Normal	77.9
Avg Min Temp (F)	43.7	Normal	41.9
Avg Mean Temp (F)	62.3	Normal	59.9
Departure from Normal (F)	2.4		

Heating Degree Days	87	Normal	170
Cooling Degree Days	14	Normal	17
Degree base 65°F			

Highest Monthly Avg Temp (F)	66.5 in 1974
Lowest Monthly Avg Temp (F)	53.0 in 1965

Total June Precipitation	T
Normal June Precipitation	0.36"
Departure from normal	-0.36"
Greatest 24-Hr Precipitation	T on 06/01-01
Total Precipitation Year-to-Date	3.21"
Departure from Normal	-5.26"

Highest Temp this month (F): 87 on 30th
 Lowest Temp this month (F): 33 on 5th

Record High (F):	96 on 06/28/2013 06/26/1970
Record Low (F):	22 on 06/02/1955 06/02/1951

Number of Days:

Clear	30
Partly Cloudy	0
Cloudy	0

Temperature or precipitation records this month:
 17th HiMin of 57 tied, first set in 1949.

Greatest June Precipitation	2.92" in 1955
Least June Precipitation	0.00" in 2014 and 23 other years

Flagstaff Number of Days of:

Minimum Temp 55°F or higher	1
Minimum Temp 35°F or lower	2

Average Wind Speed	10.5 mph
Highest Peak Gust	61 mph from 220° on 17 th

PHOENIX CLIMATE STATISTICS

June 2014

This June was the 7th warmest on record, and was tied with 69 other years as the driest on record.

Temperature or precipitation records this month:
 2nd HiMax 110 tied, first set in 2006
 10th HiMin 83 set, previous record 82 in 2013
 11th HiMin 85 set, previous record 82 in 1991
 13th HiMin 85 tied, first set in 2013

Avg Max Temp(F)	106.2	Normal	103.9
Avg Min Temp(F)	80.1	Normal	77.7
Avg Mean Temp (F)	93.2	Normal	90.8
Departure from Normal (F)	2.4		

Phoenix Number of Days of:

Minimum Temp 75°F or lower	3
Minimum Temp 85°F or higher	4
Maximum Temp 105°F or lower	11
Maximum Temp 110°F or higher	2

Highest Monthly Avg Temp (F)	94.8 in 2013
Lowest Monthly Avg Temp (F)	79.0 in 1965

Highest Temp this month (F): 110 on 9th, 2nd
 Lowest Temp this month (F): 75 on 16th, 15th, 6th

Heating Degree Days	0	Normal	0
Cooling Degree Days	855	Normal	774
Degree base 65°F			

Record High (F):	122 on 06/26/1990
Record Low (F):	49 on 06/04/1908

Total June Precipitation	T
Normal June Precipitation	0.02"
Departure from normal	-0.02"
Greatest 24-Hr Precipitation	T on 6/30-30
Total Precipitation Year-to-Date	0.99"
Departure from Normal	-2.24"

Greatest June Precipitation	1.70" in 1972
Least June Precipitation	0.00" in 2014 and 69 other years
Average Wind Speed	7.4 mph
Highest Peak Gust	35 mph from 270° on 16 th

Number of Days:

Clear	22
Partly Cloudy	8
Cloudy	0

TUCSON CLIMATE STATISTICS
June 2014

This June was the 3rd warmest on record, and was tied with 29 other years as the driest.

Avg Max Temp(F)	103.8	Normal	100.3
Avg Min Temp(F)	74.1	Normal	69.3
Avg Mean Temp(F)	88.9	Normal	84.8
Departure from Normal (F)	4.1		

Highest Monthly Avg Temp (F)	89.4 in 2013
Lowest Monthly Avg Temp (F)	77.6 in 1965

Highest Temp this month (F):	108 on 4 th , 2 nd
Lowest Temp this month (F):	67 on 6 th

Record High (F):	117 on 06/26/1990
Record Low (F):	43 on 06/04/1908

Temperature or precipitation records this month:
 2nd HiMax 108 set, previous record 107 in 2013
 3rd HiMax 107 tied, first set in 1996
 11th HiMin 77 tied, first set in 1979
 14th HiMin 81 set, previous record 80 in 1959

Tucson Number of Days of:

Minimum Temp 70°F or lower	6
Minimum Temp 80°F or higher	4
Maximum Temp 100°F or lower	2
Maximum Temp 105°F or higher	11

Heating Degree Days	0	Normal	0
Cooling Degree Days	725	Normal	594
Degree base 65°F			

Total June Precipitation	T
Normal June Precipitation	0.20"
Departure from normal	-0.20"
Greatest 24-Hr Precipitation	T on MM
Total Precipitation Year-to-Date	0.61"
Departure from Normal	-2.66"

Greatest June Precipitation	2.07" in 1915
Least June Precipitation	0.00" in 2014 and 29 other years

Number of Days:

Clear	26
Partly Cloudy	0
Cloudy	0

Average Wind Speed	7.7 mph
Highest Peak Gust	37 mph from 240° on 15 th

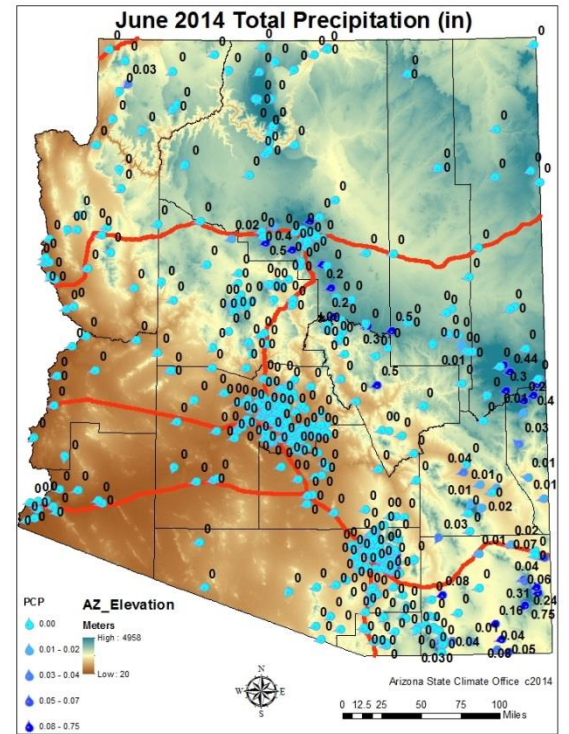
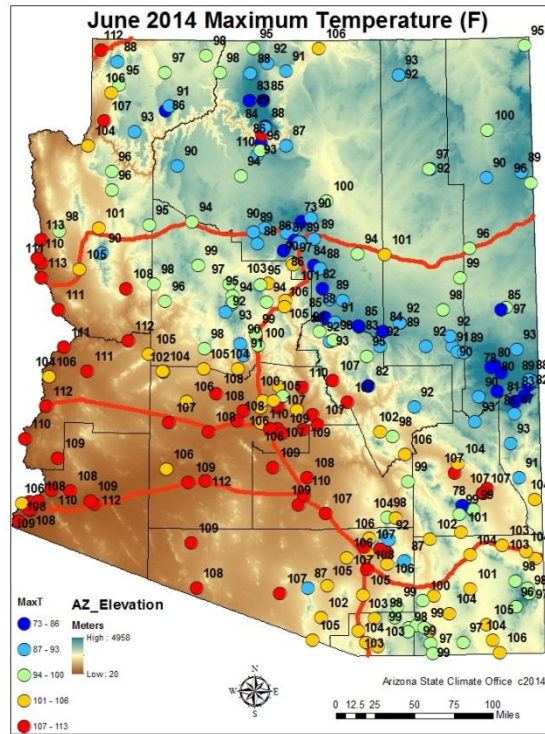
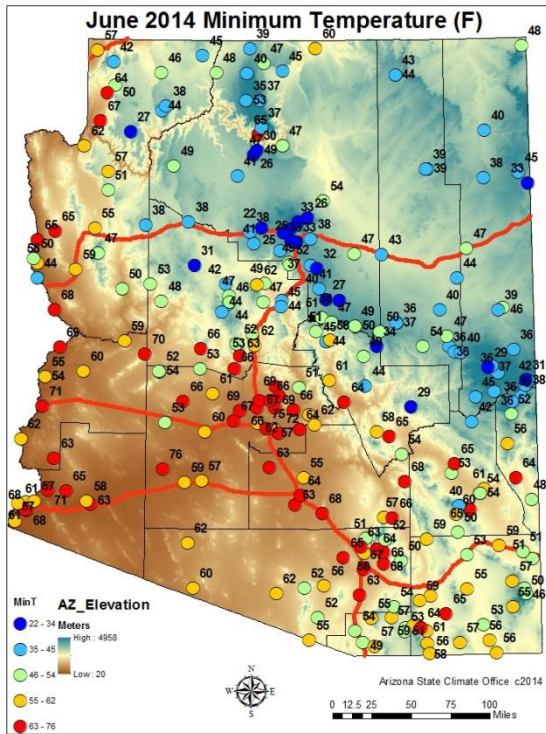
Data are from the National Weather Service and the National Climatic Data Center and are **preliminary**.

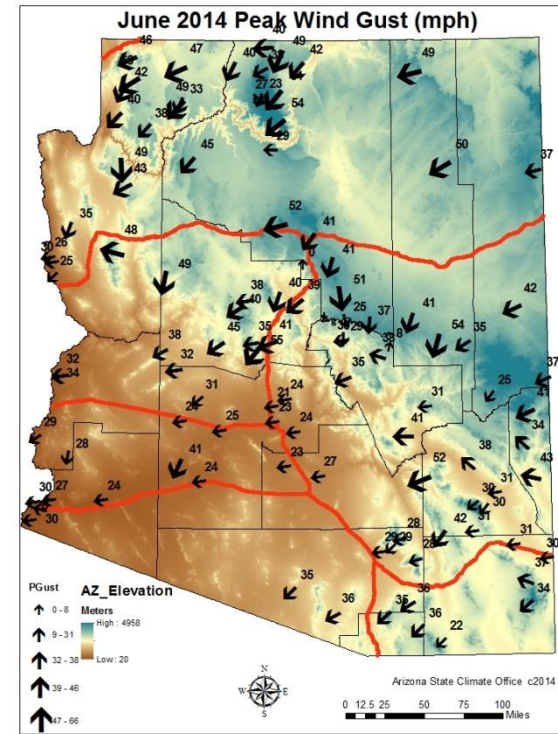
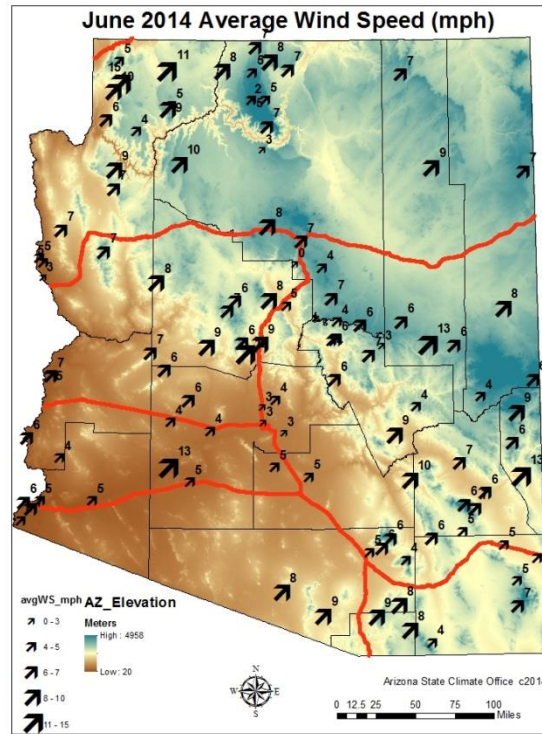
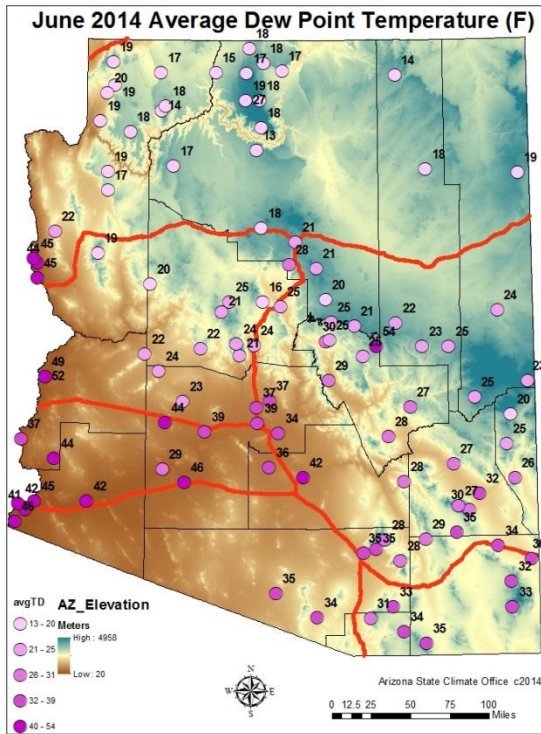
Wind Speeds:

Day	Phoenix		Flagstaff		Tucson	
	Avg	Max	Avg	Max	Avg	Max
1	6.9	20	9.6	35	5.6	23
2	6	19	14.7	39	4.6	24
3	5.8	19	11.8	39	7.2	27
4	6.2	25	8.1	36	6.8	24
5	5.5	23	6.2	34	7	26
6	7	28	8	30	6.9	22
7	6.9	22	7.7	29	7.4	28
8	4.6	19	5.8	26	6.8	21
9	5	21	8.8	27	5.3	20
10	9.3	29	8.8	37	6.8	29
11	7.6	29	11.8	39	9.6	30
12	7.4	21	9	38	5.7	24
13	8.3	29	13.4	51	9.5	30
14	8.7	31	13.3	40	11.3	32
15	7.2	24	13.2	42	11.2	37
16	9.8	35	24.9	60	10.5	33
17	11.7	30	24.2	61	11.3	33
18	9.5	30	14.5	38	12.4	35
19	5.9	24	3.6	24	6	20
20	7.3	25	7	30	6.7	23
21	9.6	32	11.8	39	7.2	25
22	6.6	24	9.1	38	6.3	26
23	7	20	7.6	29	6.3	28
24	6.3	19	8.1	27	7.2	28
25	8.3	23	8.3	31	8.3	28
26	7.8	27	15.7	43	9.3	29
27	8.3	23	11.8	35	8.9	30
28	6.8	19	7.2	28	7.4	21
29	8.1	21	7.8	28	5.3	18
30	7.3	22	8.6	28	6.3	21

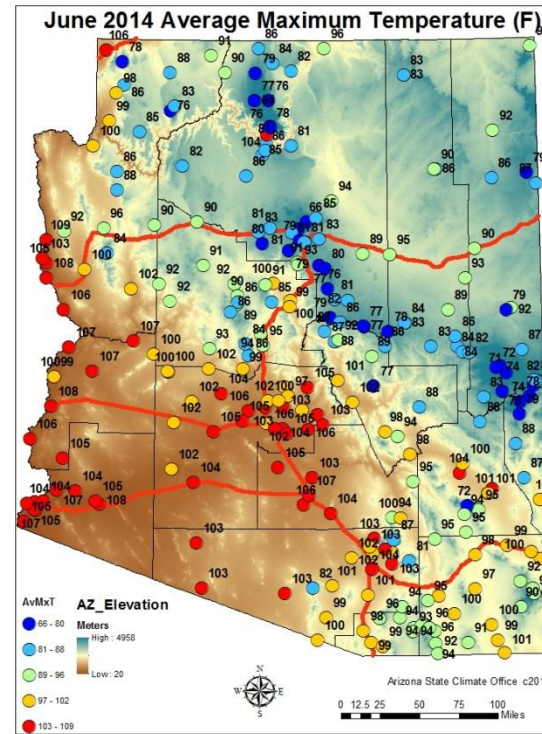
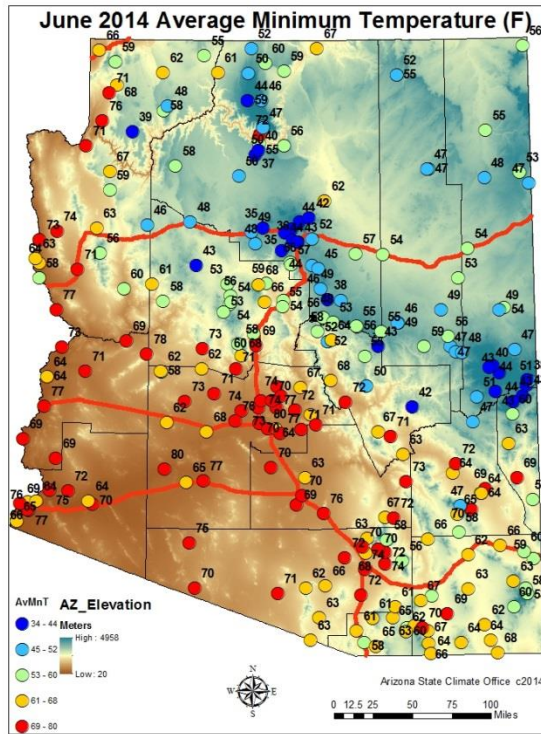
Dew Points for June:**Daily Average Dew Point (°F):**

Day	Phx	Tuc	Flg
1	27	15	14
2	27	24	13
3	18	15	6
4	16	10	-1
5	17	4	4
6	20	13	7
7	28	24	10
8	30	35	16
9	39	37	18
10	35	38	24
11	35	36	23
12	43	45	26
13	28	41	18
14	29	30	14
15	21	31	8
16	29	39	21
17	30	41	25
18	35	39	22
19	33	35	24
20	39	36	25
21	33	34	27
22	28	31	21
23	24	31	19
24	30	38	21
25	31	42	25
26	38	35	29
27	42	34	31
28	47	44	35
29	47	43	36
30	46	39	39





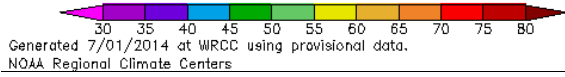
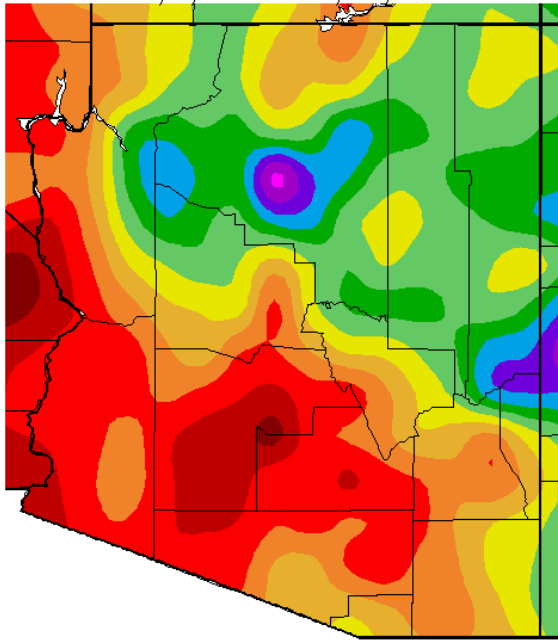
The lowest minimum temperature was 22°F at Fort Valley, and the highest minimum was 80°F at Phoenix. The lowest maximum temperature of 73°F was recorded at Snowslide Canyon, while the highest maximum temperature of 113°F was reported at Bullhead City. The lowest rainfall amount was 0.00” at most stations in Arizona and the highest was 0.75” at Rucker. The lowest dew point was 13°F at Tusayan and the highest was 54°F at Red Lake. The highest peak wind gust was 66 mph at Tweeds Point.



June 2014

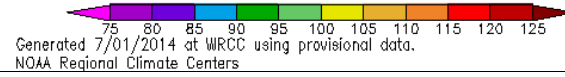
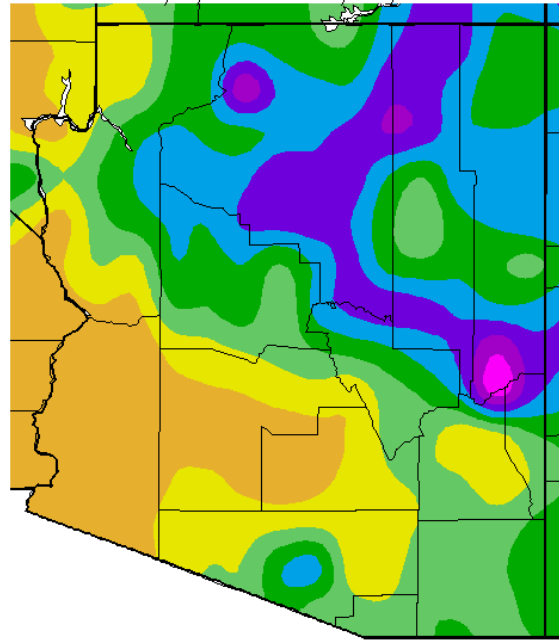
The highest average minimum temperature was 76°F at Phoenix Sky Harbor AP and the lowest average minimum temperature was 34°F at Fort Valley. The highest average maximum temperature was 109°F at Bullhead City and lowest average maximum temperature was 66°F at Snowslide Canyon.

Av. Min. Temperature (deg. F)
6/1/2014 – 6/30/2014



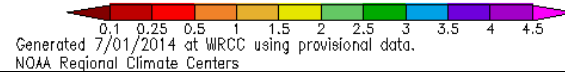
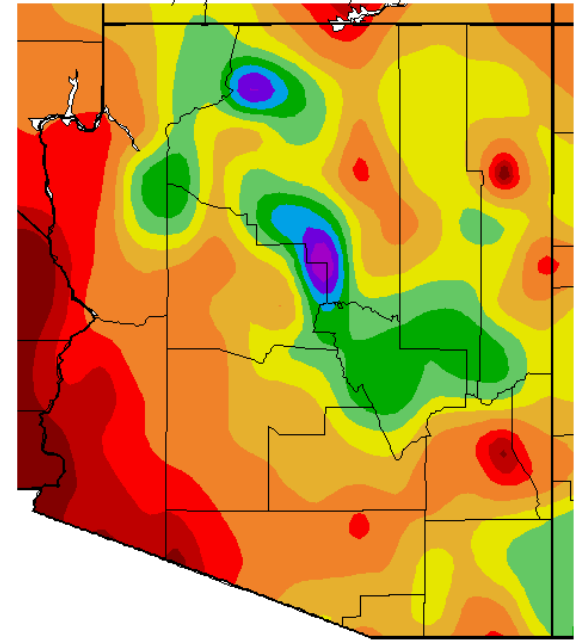
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NOAA Regional Climate Centers

Av. Max. Temperature (deg. F)
6/1/2014 – 6/30/2014



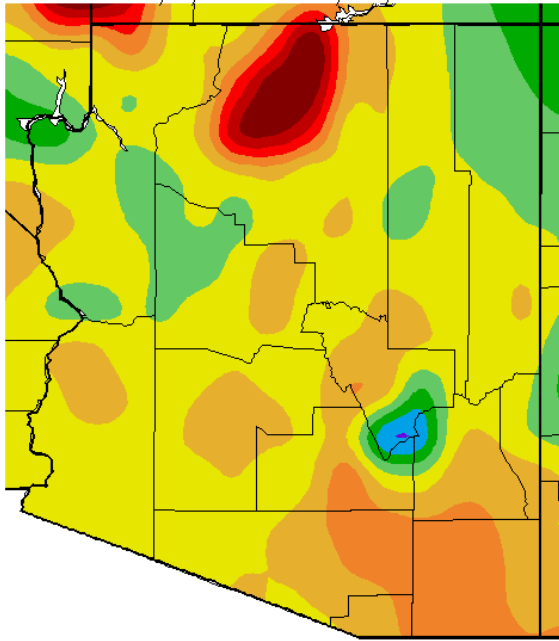
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Total Precipitation (in.)
1/1/2014 – 6/30/2014



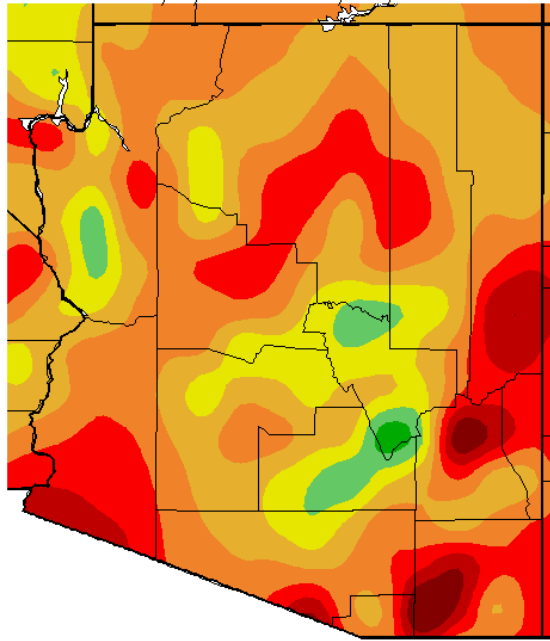
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Av. Min. Temperature dep from Ave (deg. F)
6/1/2014 – 6/30/2014



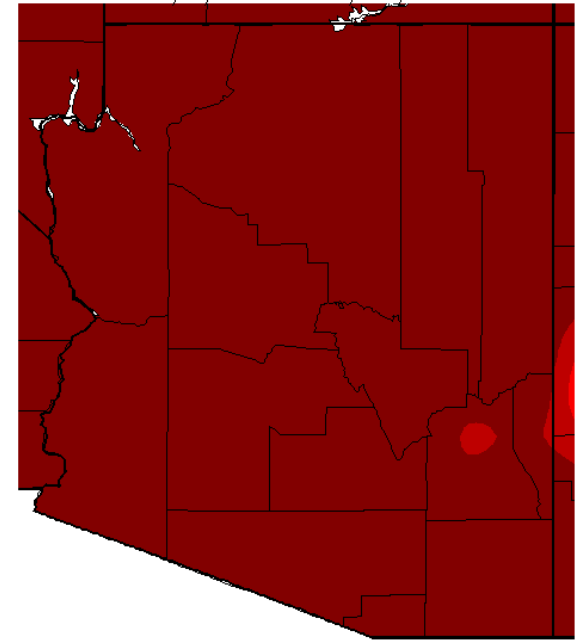
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Av. Max. Temperature dep from Ave (deg F)
6/1/2014 – 6/30/2014



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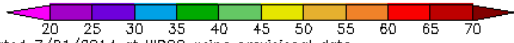
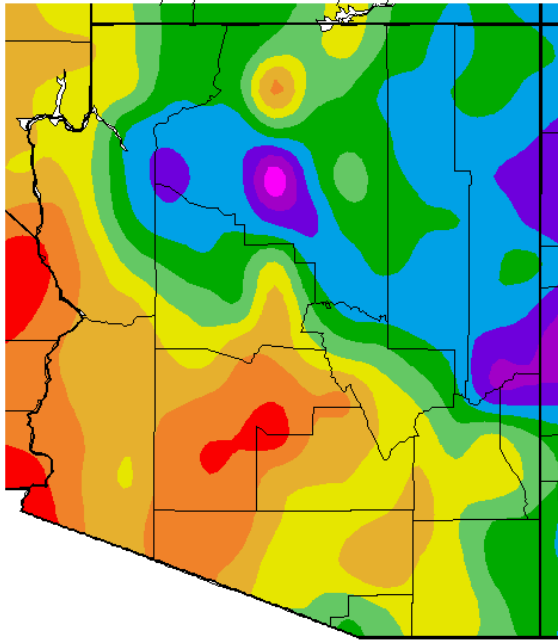
Percent of Average Precipitation (%)
6/1/2014 – 6/30/2014



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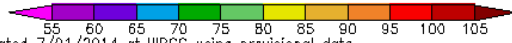
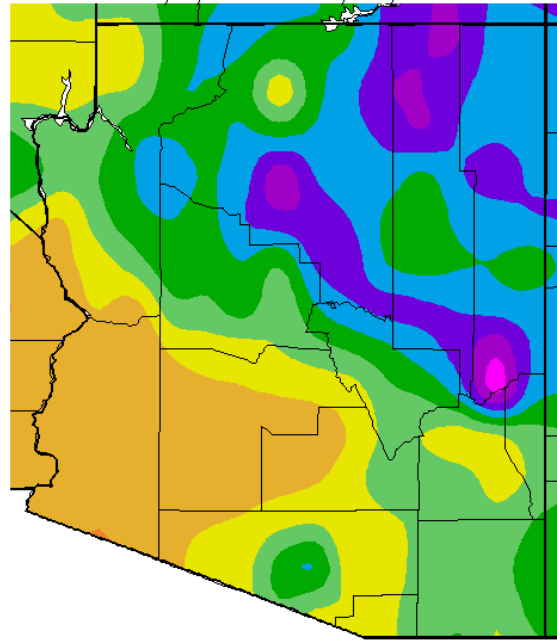
June minimum temperatures were 2-4°F cooler than normal in northern Apache County, but 2-4°F warmer than normal across most of the state. Northern Coconino County saw minimum temperatures 6°F or more warmer than normal. Daytime temperatures were also 3 to 5°F warmer than normal statewide. Exceptions were in northern and southern Gila County and Mohave County where high temperatures were slightly cooler than normal. June precipitation was less than 25% of normal statewide.

Av. Min. Temperature (deg. F)
1/1/2014 – 6/30/2014



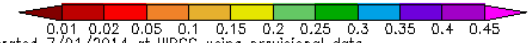
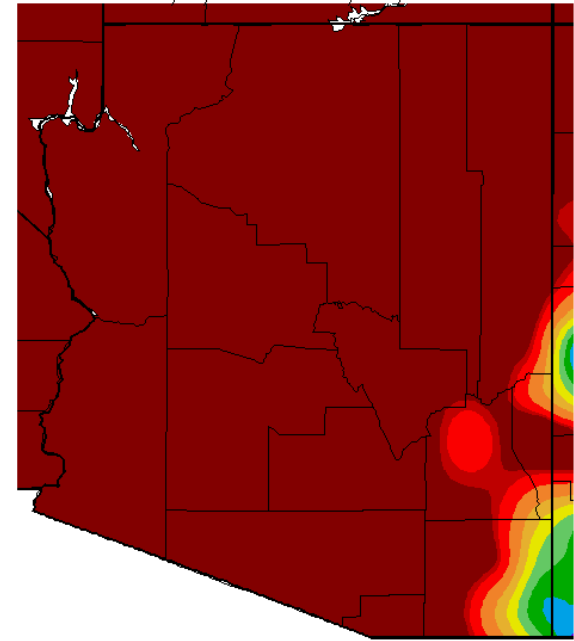
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Av. Max. Temperature (deg. F)
1/1/2014 – 6/30/2014



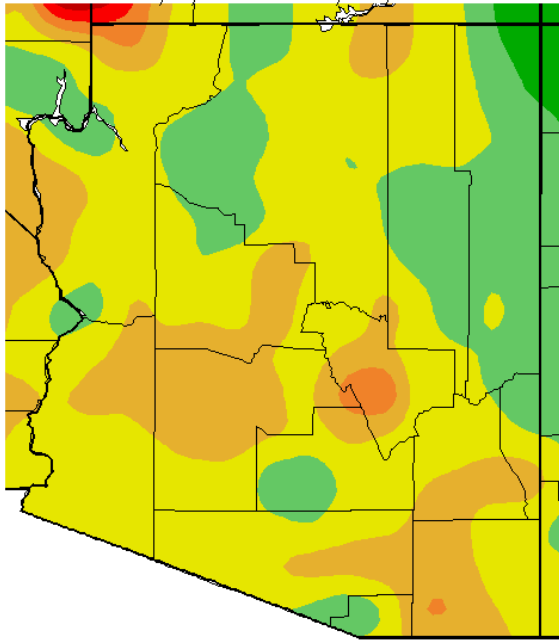
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Total Precipitation (in.)
6/1/2014 – 6/30/2014



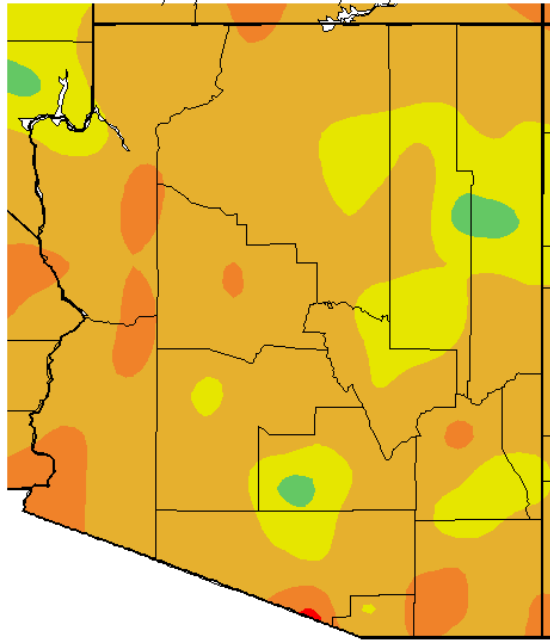
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Av. Min. Temperature dep from Ave (deg. F)
1/1/2014 – 6/30/2014



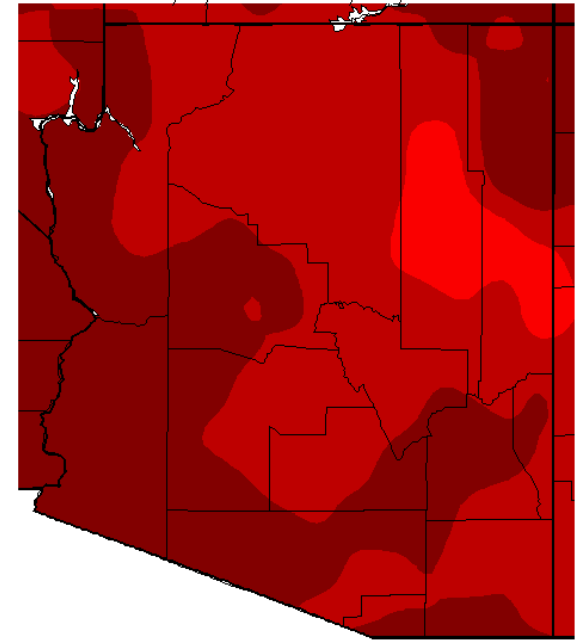
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Av. Max. Temperature dep from Ave (deg F)
1/1/2014 – 6/30/2014



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Percent of Average Precipitation (%)
1/1/2014 – 6/30/2014

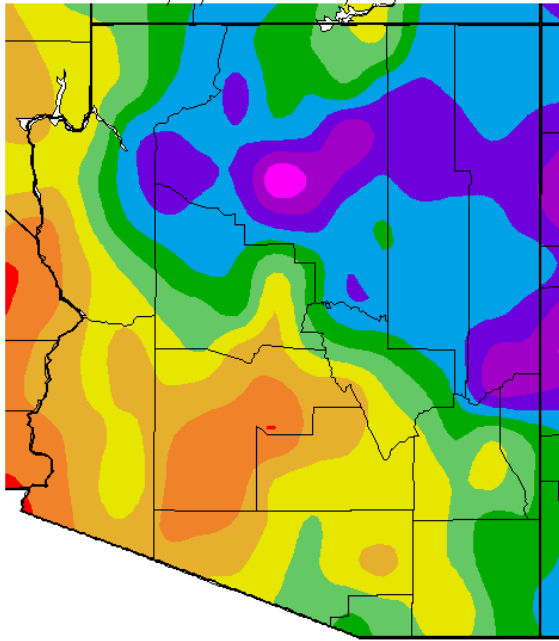


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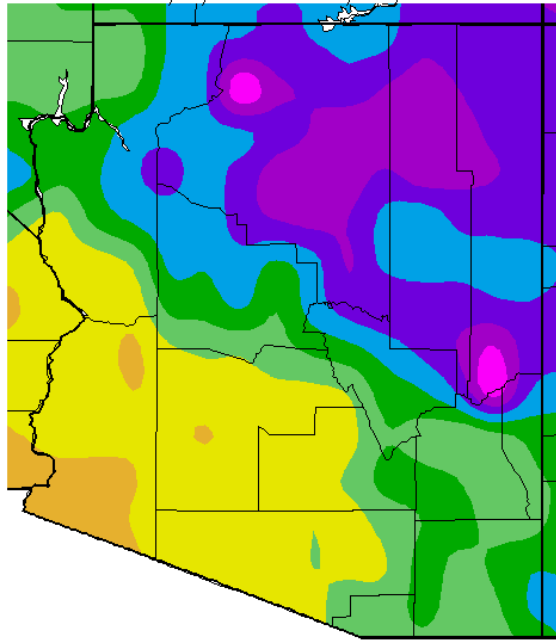
Calendar Year 2014

Calendar year minimum temperatures ranged from 2°F cooler along the eastern border to 4 to 6°F warmer than average in Gila County. Daytime highs have been 0 to 4°F warmer than normal statewide. Precipitation so far this year has been less than 50% of normal statewide, with central Navajo and Apache counties at 70% of normal and the southwestern quarter of the state and the lower Colorado River Valley have received less than 25% of normal precipitation.

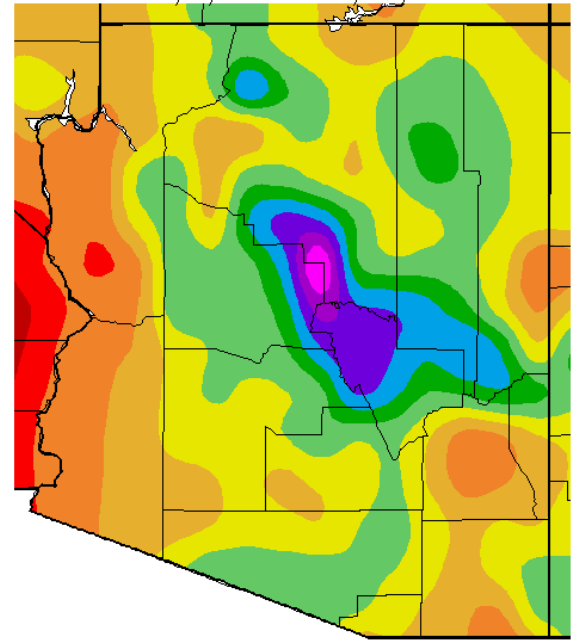
Av. Min. Temperature (deg. F)
10/1/2013 – 6/30/2014



Av. Max. Temperature (deg. F)
10/1/2013 – 6/30/2014



Total Precipitation (in.)
10/1/2013 – 6/30/2014

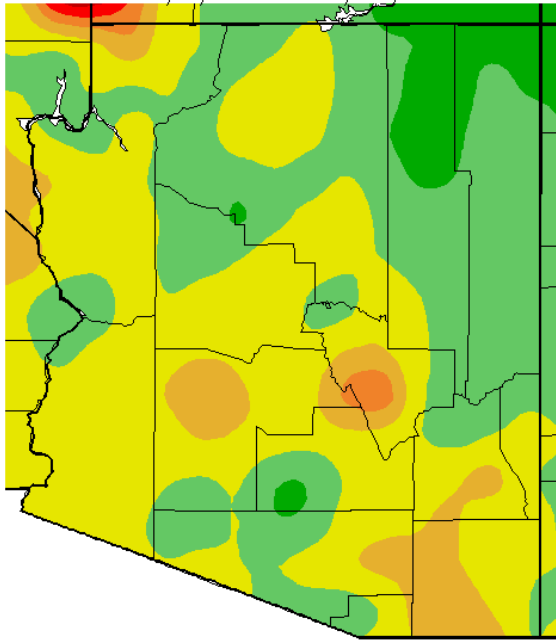


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Generated 7/01/2014 at WRCC using provisional data.
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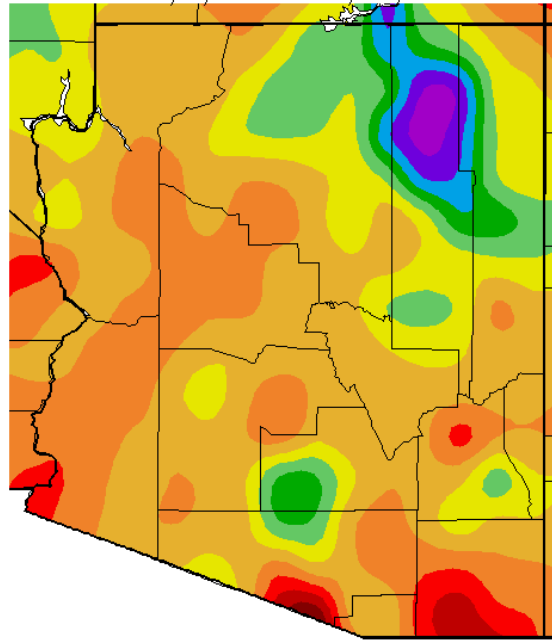
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Generated 7/01/2014 at WRCC using provisional data.
NOAA Regional Climate Centers

Av. Min. Temperature dep from Ave (deg. F)
10/1/2013 – 6/30/2014



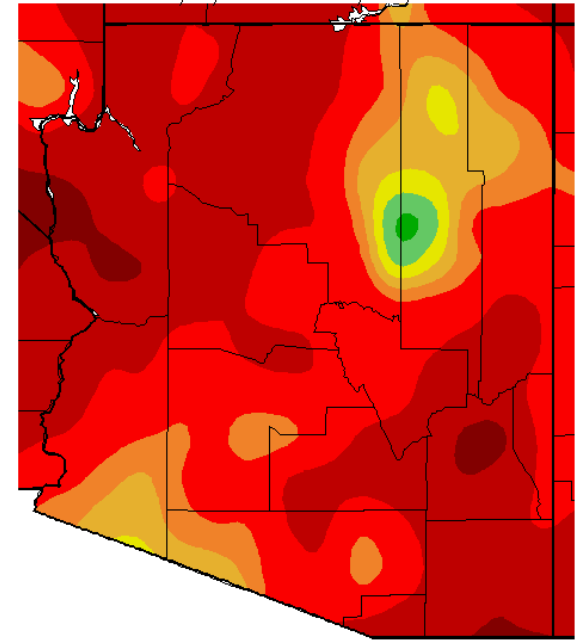
Generated 7/01/2014 at WRCC using provisional data.
NOAA Regional Climate Centers

Av. Max. Temperature dep from Ave (deg F)
10/1/2013 – 6/30/2014



Generated 7/01/2014 at WRCC using provisional data.
NOAA Regional Climate Centers

Percent of Average Precipitation (%)
10/1/2013 – 6/30/2014

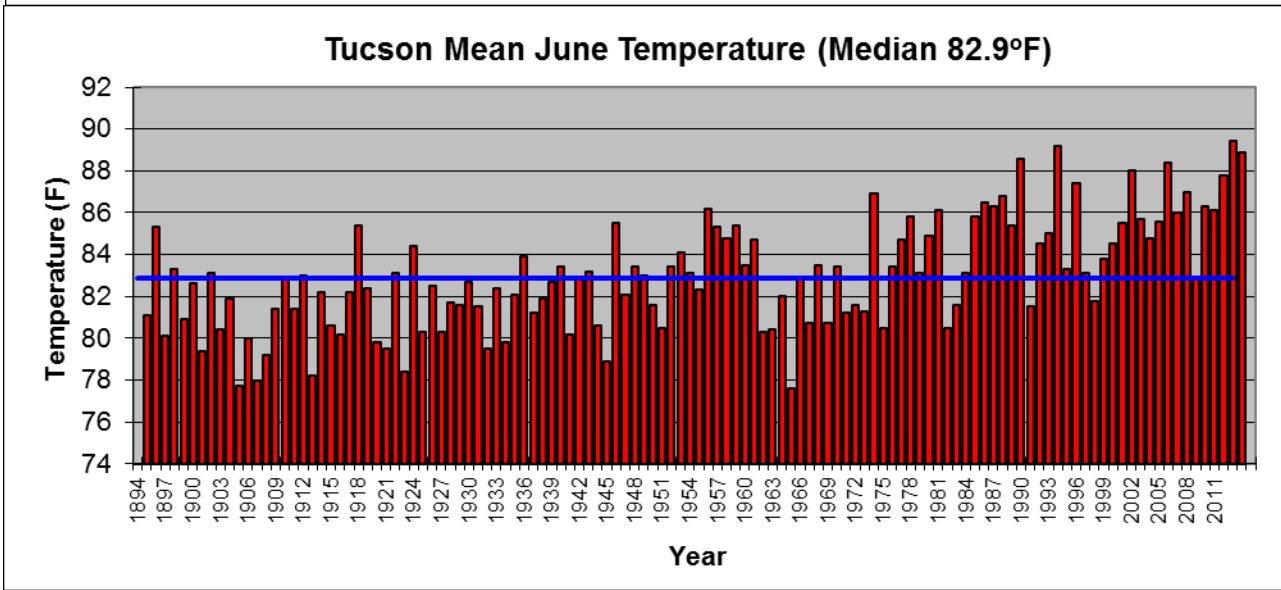
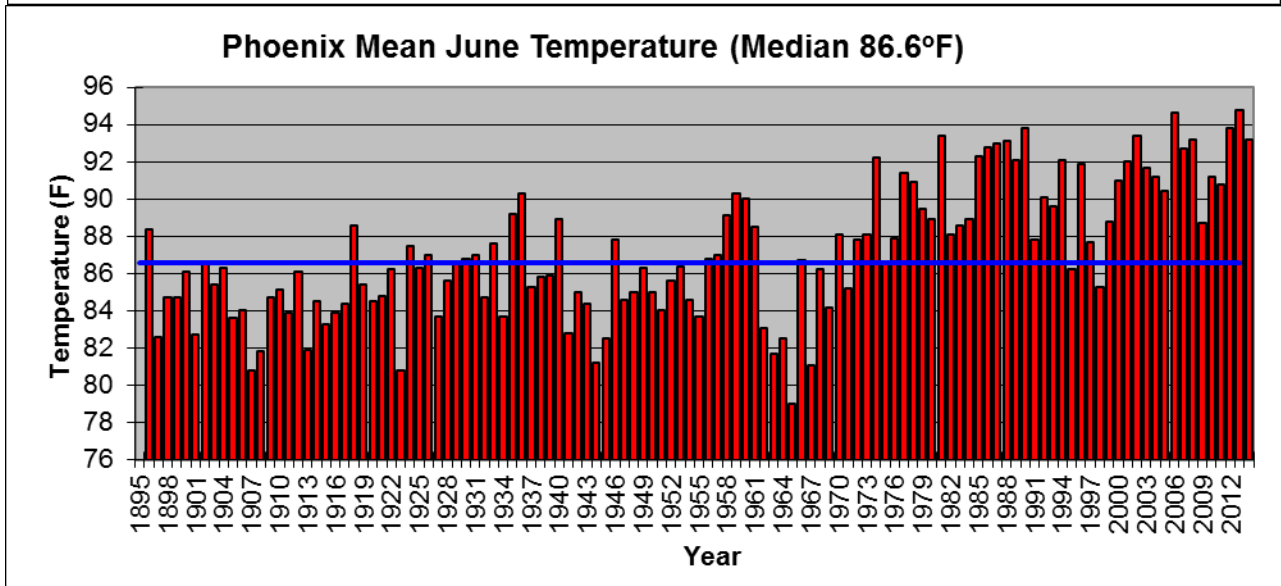
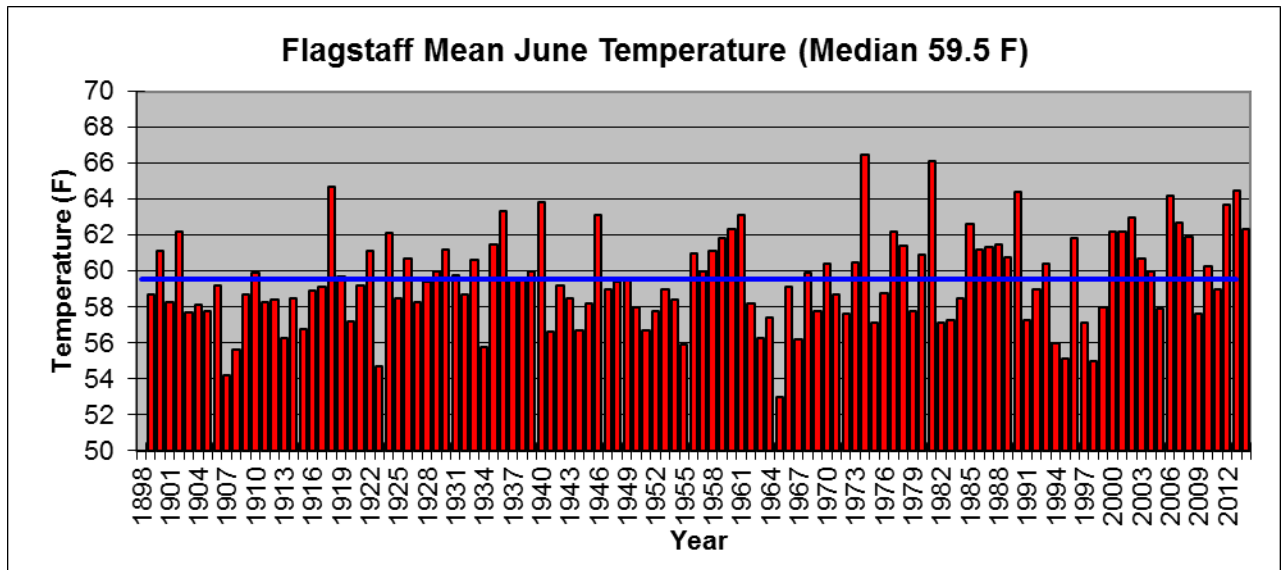


Generated 7/01/2014 at WRCC using provisional data.
NOAA Regional Climate Centers

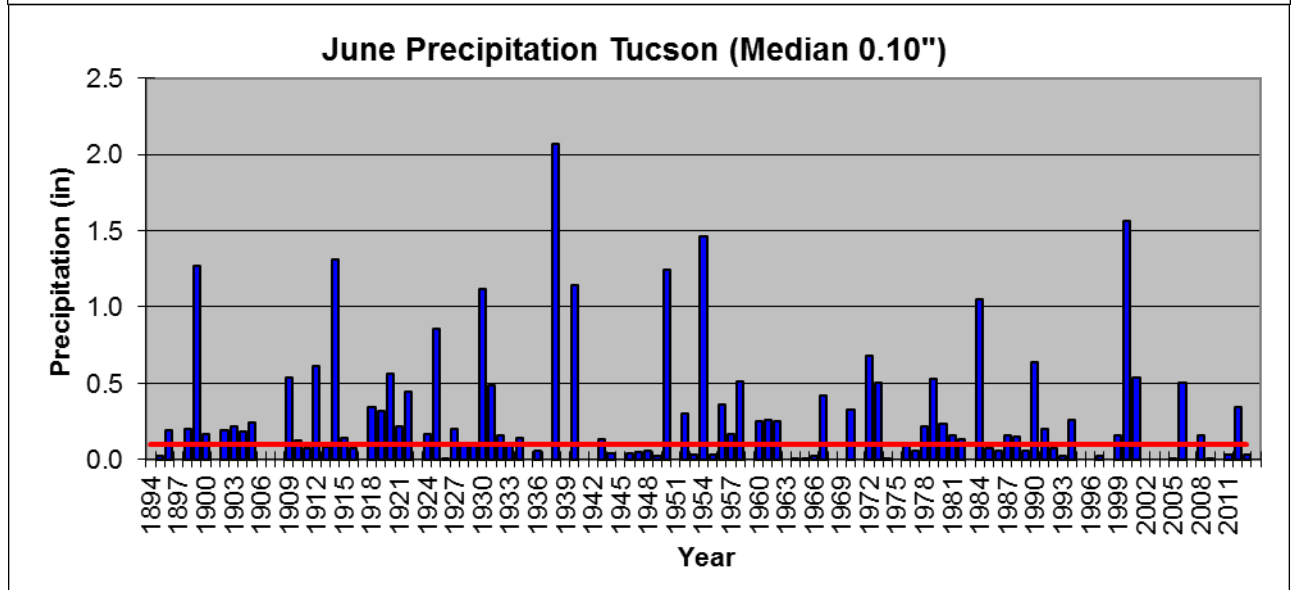
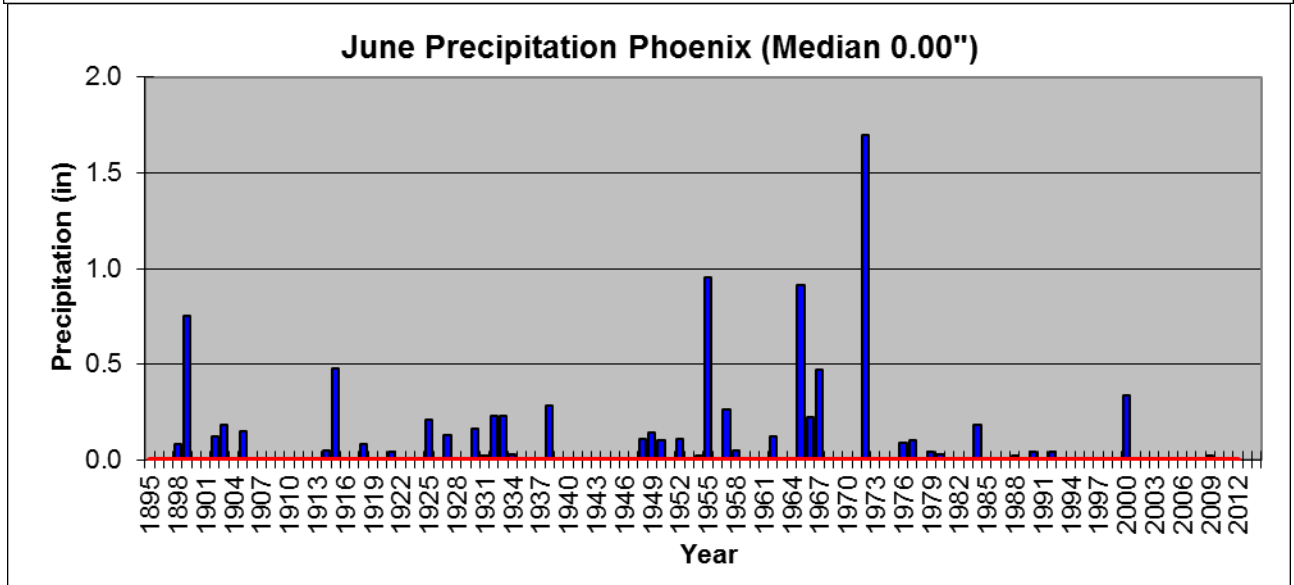
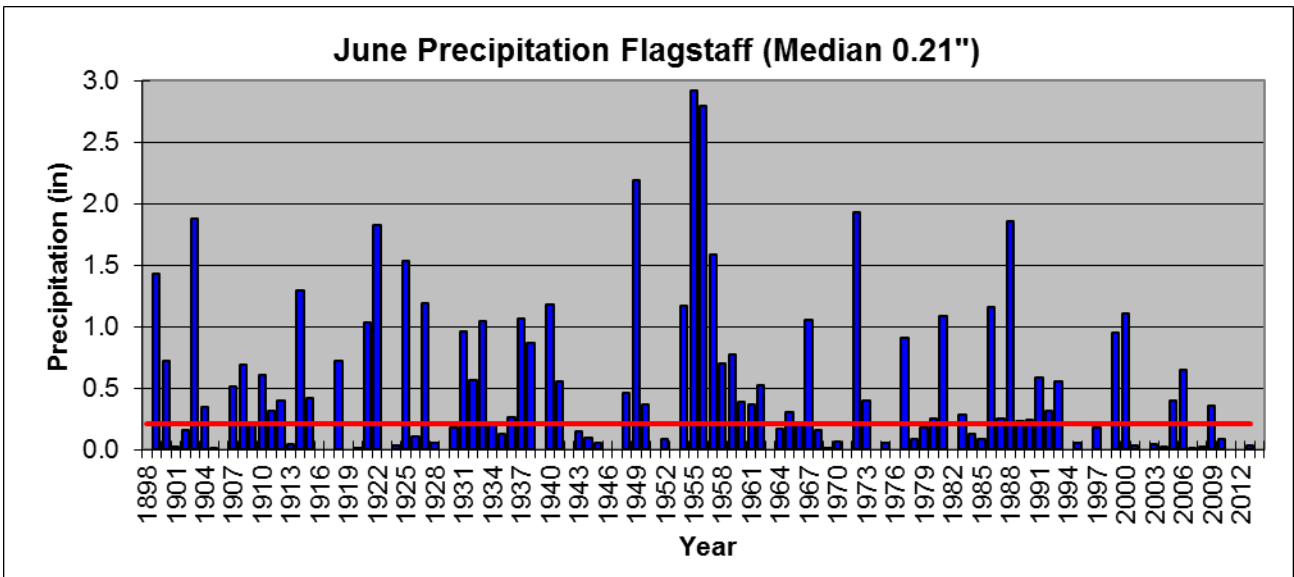
2014 Water Year

Minimum temperatures on the Colorado Plateau are 0 to 4°F cooler than normal, while the southwestern half of the state has been 0 to 2°F warmer than normal. Gila County has been 2 to 6°F warmer than normal. Daytime temperatures have been 1 to 3°F warmer than normal across most of the state, with the northeastern corner 0 to 5°F cooler than normal. The third consecutive dry water year continues to record below average precipitation statewide, except central Navajo County.

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

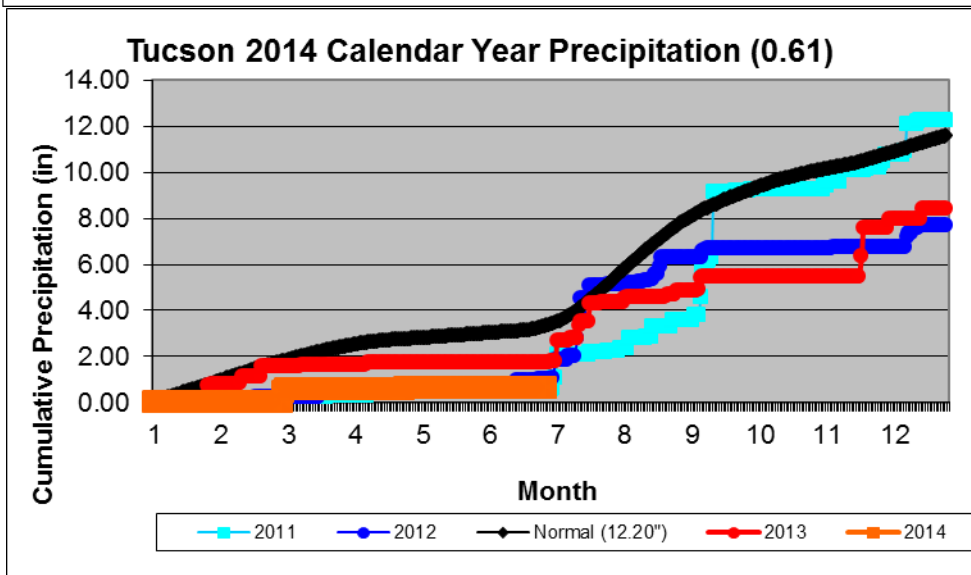
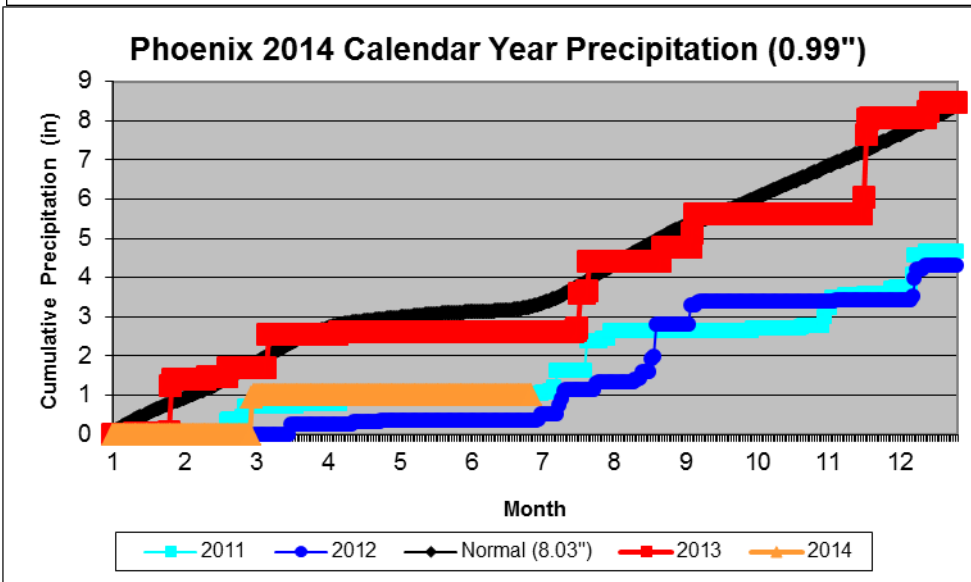
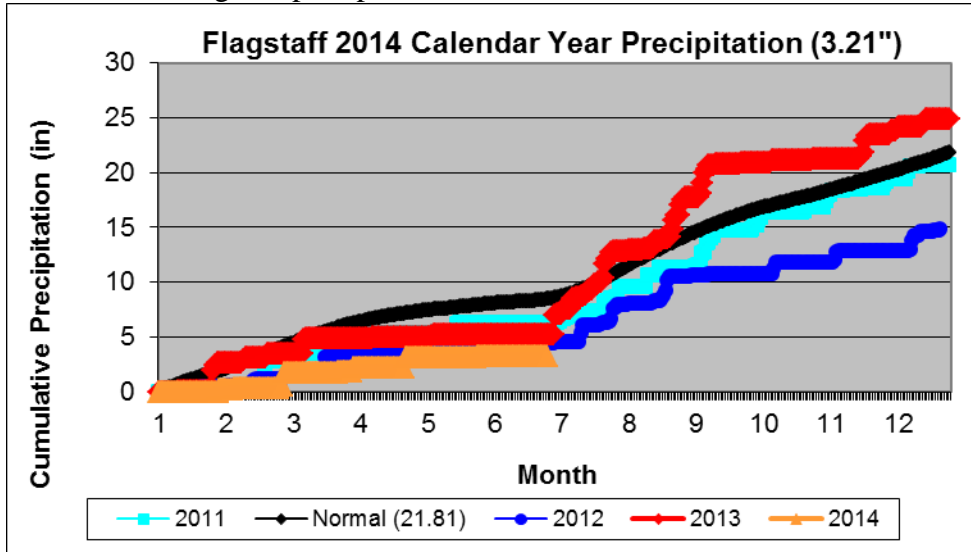


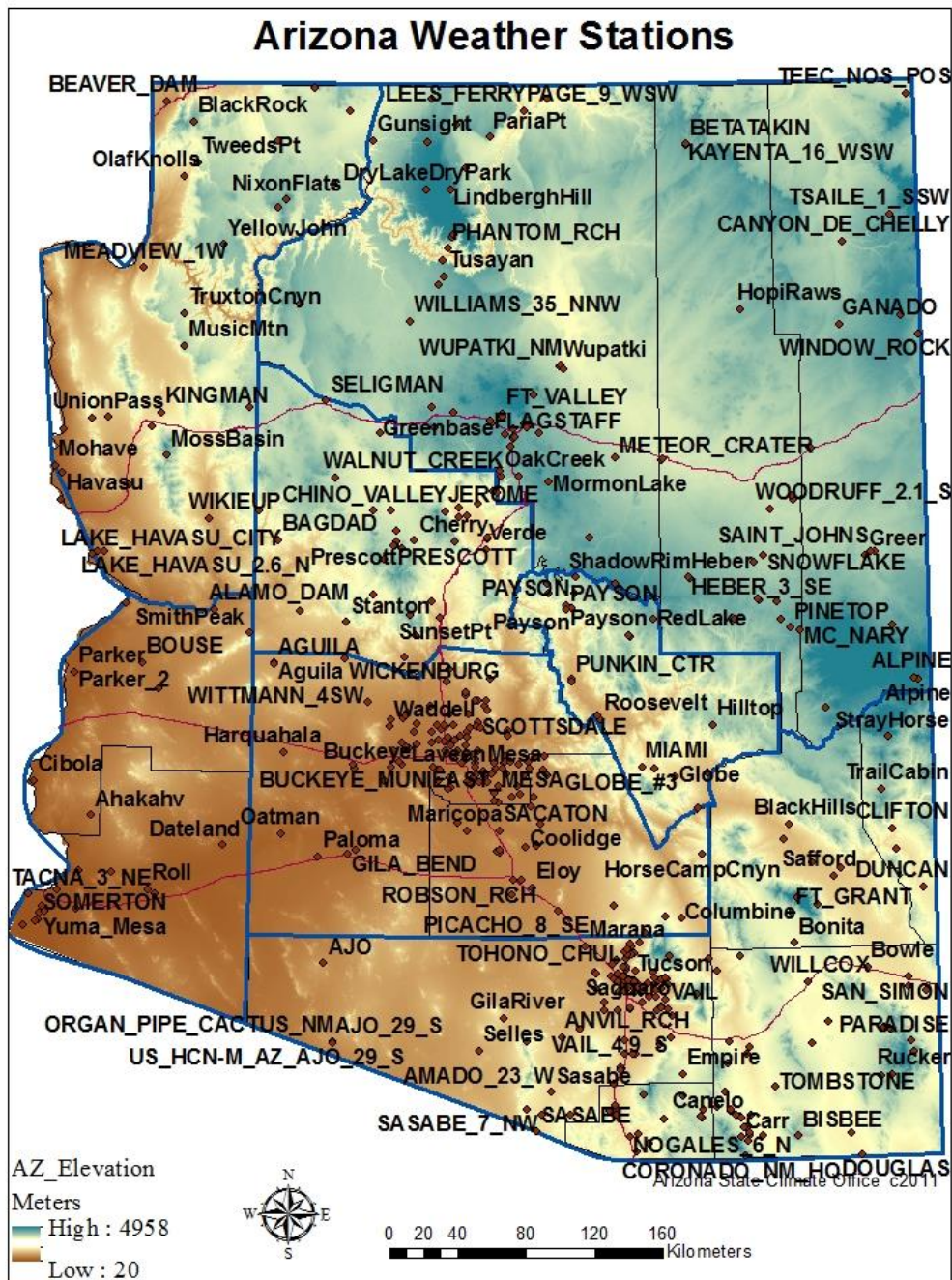
June Mean Precipitation Graphs – Flagstaff, Phoenix, and Tucson 1895-2014:



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)