



Arizona Climate Summary

June 2014

Summary of conditions for May 2014

May 2014 Temperature and Precipitation Summary

May 1st – 16th: Typical of May in Arizona, the state experienced dry conditions with very little precipitation reported. Average monthly temperatures for May were relatively normal, within 1.3 degrees of the average. A ridge of high pressure provided warm and dry conditions during the first week. On the 7th, a well-defined trough extended across northern Arizona, setting the stage for some slight rainfall at higher elevations. Flagstaff received 0.01” of rain and even reported a trace of snow on the 7th. The following day proved to be slightly wetter, with 0.04” of rain and 0.4” of snow reported on the 8th for Flagstaff. Williams reported 0.10” of rain and Bellemont reported 0.14” of rain and 0.5” of snow on the 8th. Another low pressure center from the Northwest followed, bringing another trough over the state. Once again, there was not quite enough moisture to really create significant rainfall. Flagstaff reported a trace of precipitation and snow on the 11th. One record was set this month among the three main cities. On the 5th, Flagstaff set a new high minimum temperature record of 48 degrees F, beating the previous record of 45 degrees F, originally set in 1992.

May 17th – 31st: On the 20th, the beginning of a low pressure cutoff began to slowly make its way through the Southwest creating increased wind speeds aloft but eventually decreasing in intensity. This system dropped 0.10” of rain on Navajo National Monument in northeastern Arizona, and 0.19” at Lee’s Ferry on the 23rd. The system moved slowly dropping an additional 0.16” at Navajo National Monument and 0.13” at Window Rock on the 24th, and 0.18” at Canyon de Chelly on the 25th. Petrified Forest received 0.09” on the 26th and Alpine had 0.15” on the 27th. The last storm system of the month moved through on the 29th when divergence aloft generated enough uplift to lead to light showers mostly over northern Arizona, though Tucson reported a trace of rainfall, while Flagstaff and Bellemont recorded 0.07” of rain on the 29th. Despite the relatively normal monthly mean temperature, this May was the 15th warmest on record for Phoenix and Tucson, mostly due to high nighttime temperatures; however, no records in temperature and precipitation were set or tied in Phoenix and Tucson this month.

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

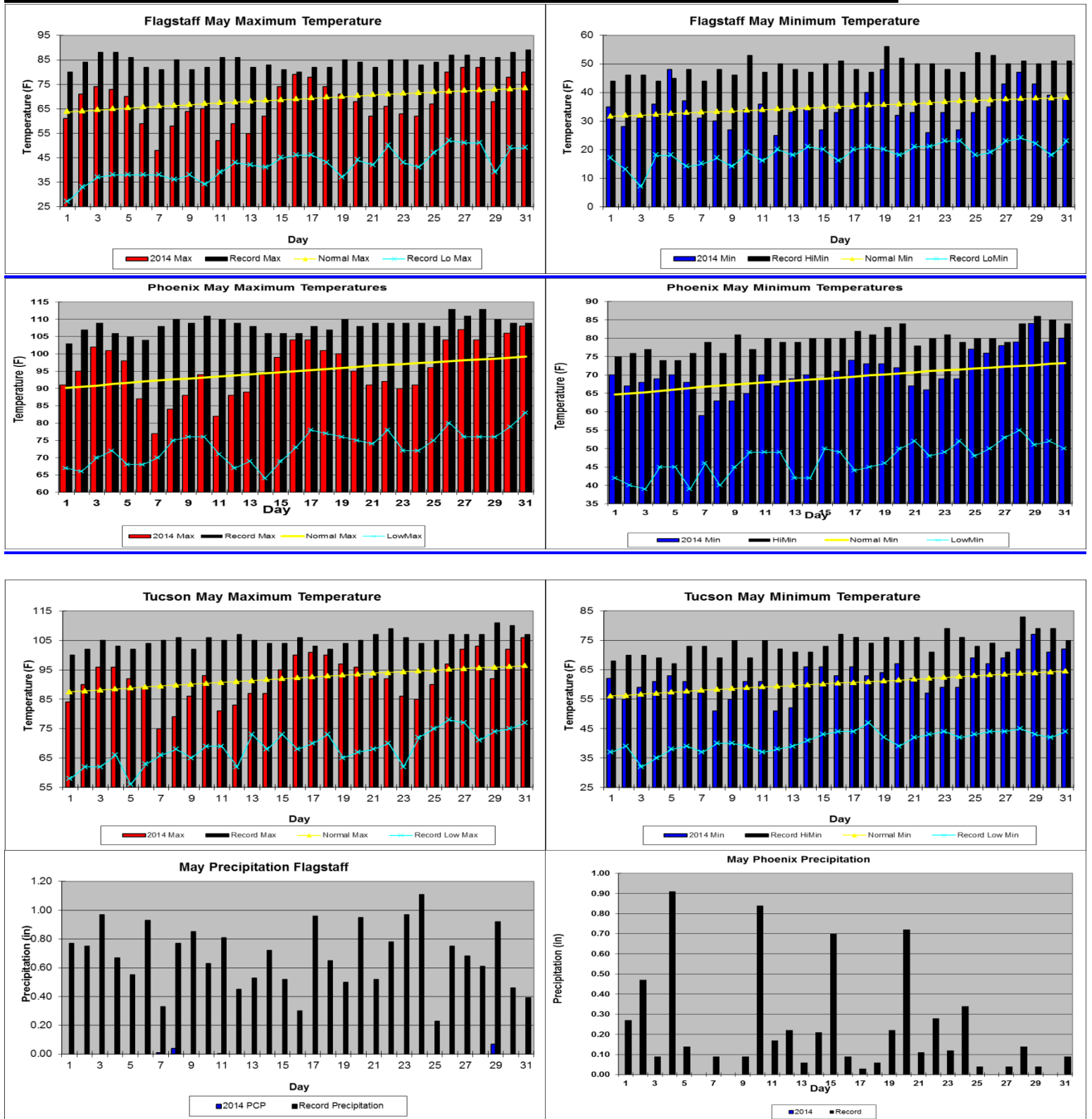
****Note:** The discrepancy between the Statewide Temperature and Precipitation values for Phoenix, Flagstaff and Tucson and the daily values in their graphs are due to the reporting times. Statewide Temperature and Precipitation values are taken at 5pm, while official daily records at the airports are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

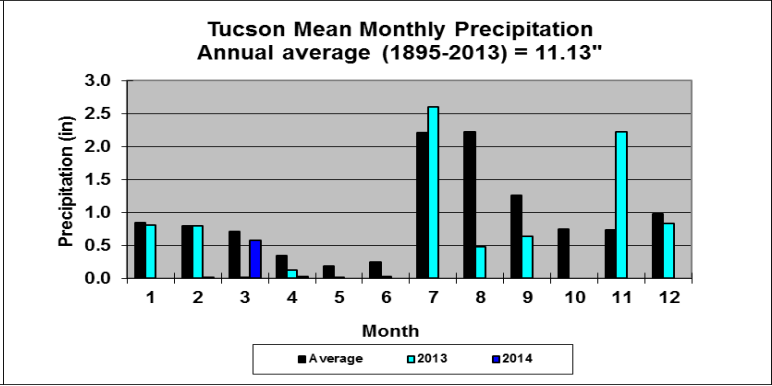
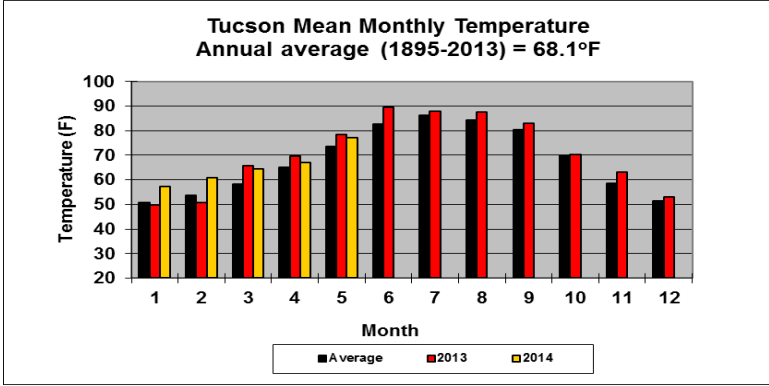
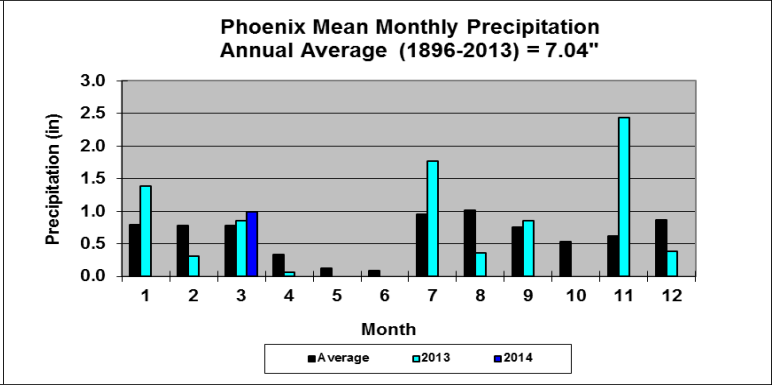
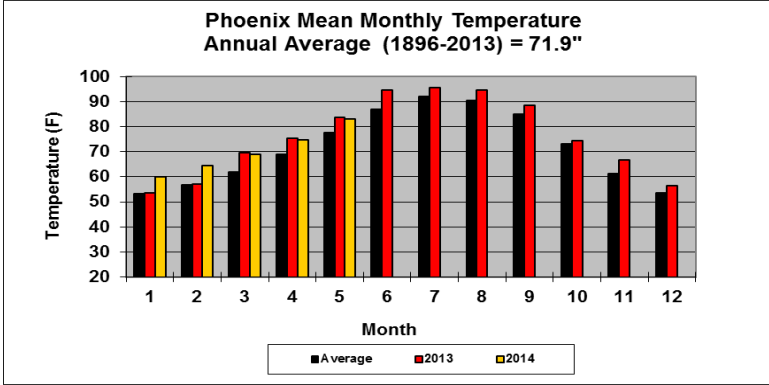
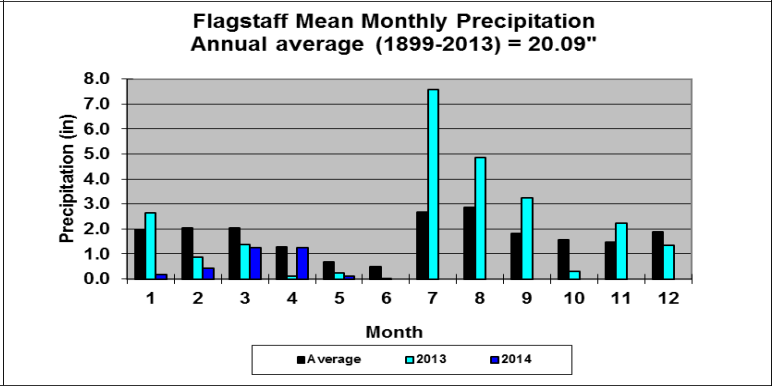
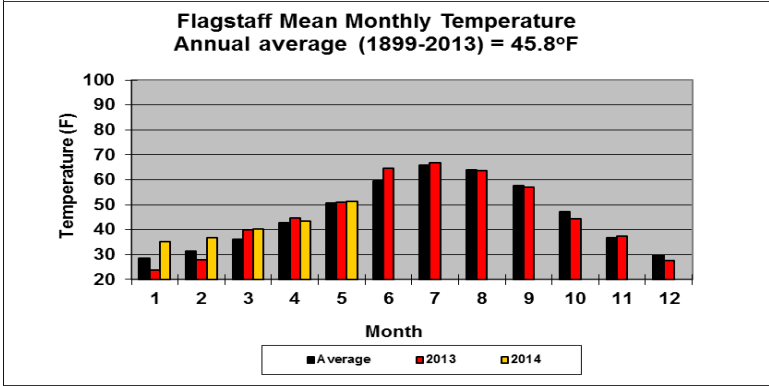
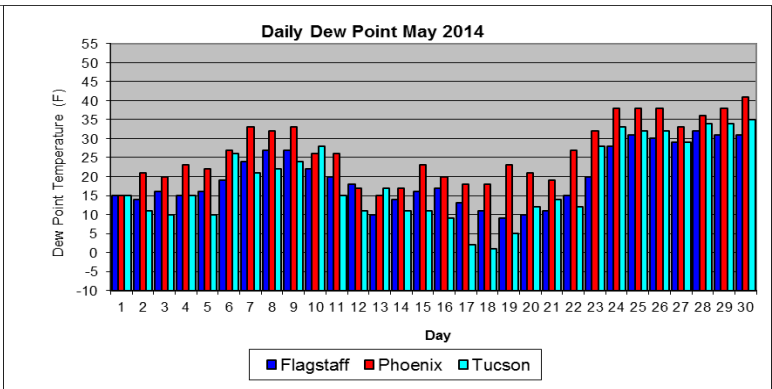
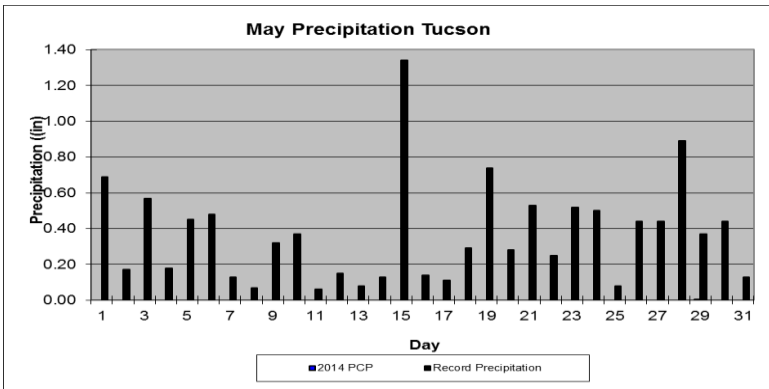
State Climate Office
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May 2014 Daily Temperature, Precipitation, & Dew Point for Flagstaff, Phoenix, and Tucson





FLAGSTAFF CLIMATE STATISTICS

May 2014

This May had no significant ranking in temperature or precipitation.

Avg Max Temp (F) 67.9 Normal 68.1
 Avg Min Temp (F) 34.7 Normal 35.0
 Avg Mean Temp (F) 51.3 Normal 51.6
 Departure from Normal (F) -0.3

Highest Monthly Avg Temp (F) 56.8 in 1984
 Lowest Monthly Avg Temp (F) 44.6 in 1917

Highest Temp this month (F): 82 on 27th, 28th
 Lowest Temp this month (F): 25 on 12th

Record High (F): 89 on 05/31/2002
 Record Low (F): 7 on 05/03/1915

Temperature or precipitation records this month:
 5th HiMin of 48 set, previous record 45 set in 1992.

Flagstaff Number of Days of:

Minimum Temp 45°F or higher 3
 Minimum Temp 25°F or lower 1
 Maximum Temp 80°F or higher 4

Maximum Temp 50°F or lower 1

Heating Degree Days 418 Normal 417
 Cooling Degree Days 0 Normal 0
 Degree base 65°F

Total May Precipitation 0.12"
 Normal May Precipitation 0.63"
 Departure from normal -0.51"
 Greatest 24-Hr Precipitation 0.07" on 05/29-29
 Total Precipitation Year-to-Date 3.21"
 Departure from Normal -4.90"

Number of Days:

Clear 24
 Partly Cloudy 7
 Cloudy 0

Greatest May Precipitation 4.17" in 1917
 Least May Precipitation 0.00" in 2012 and 10 other years

Average Wind Speed 10.1 mph
 Highest Peak Gust 53 mph from 230° on 6th

PHOENIX CLIMATE STATISTICS

May 2014

This May was the 15th warmest on record, but had no significant ranking in precipitation.

Avg Max Temp(F) 95.5 Normal 94.8
 Avg Min Temp(F) 70.8 Normal 69.4
 Avg Mean Temp (F) 83.1 Normal 82.1
 Departure from Normal (F) 1.0

Highest Monthly Avg Temp (F) 87.0 in 1987
 Lowest Monthly Avg Temp (F) 69.0 in 1967

Highest Temp this month (F): 108 on 31st
 Lowest Temp this month (F): 59 on 7th

Record High (F): 114 on 05/30/1910
 Record Low (F): 39 on 05/03/1899

No temperature or precipitation records this month.

Phoenix Number of Days of:

Minimum Temp 60°F or lower 1
 Minimum Temp 80°F or higher 2
 Maximum Temp 80°F or lower 1
 Maximum Temp 105°F or higher 3

Heating Degree Days 0 Normal 1
 Cooling Degree Days 570 Normal 531
 Degree base 65°F

Total May Precipitation T
 Normal May Precipitation 0.11"
 Departure from normal -0.11"
 Greatest 24-Hr Precipitation T on 5/30-31,
 5/29-30
 Total Precipitation Year-to-Date 0.99"
 Departure from Normal -2.22"

Number of Days:
 Clear 16
 Partly Cloudy 15
 Cloudy 0

Average Wind Speed 8.3 mph
 Highest Peak Gust 40 mph from 230° on 5th

Greatest May Precipitation 1.31" in 1930
 Least May Precipitation 0.00" in 2014 and 59 other years

TUCSON CLIMATE STATISTICS
 May 2014

This May was the 15th warmest on record, but had no significant ranking in precipitation.

Avg Max Temp(F) 92.1 Normal 91.6
 Avg Min Temp(F) 62.5 Normal 60.5
 Avg Mean Temp(F) 77.3 Normal 76.0
 Departure from Normal (F) 1.3

Highest Monthly Avg Temp (F) 80.2 in 2000
 Lowest Monthly Avg Temp (F) 64.6 in 1905

Highest Temp this month (F): 106 on 31st
 Lowest Temp this month (F): 51 on 8th, 12th

Record High (F): 111 on 05/29/1910
 Record Low (F): 32 on 05/03/1899

No temperature or precipitation records this month.

Tucson Number of Days of:

Minimum Temp 55°F or lower 5
 Minimum Temp 75°F or higher 1
 Maximum Temp 75°F or lower 1
 Maximum Temp 105°F or higher 1

Heating Degree Days 0 Normal 5
 Cooling Degree Days 391 Normal 348
 Degree base 65°F

Total May Precipitation T
 Normal May Precipitation 0.23"
 Departure from normal -0.23"
 Greatest 24-Hr Precipitation T on 05/28–29
 Total Precipitation Year-to-Date 0.61"
 Departure from Normal -2.46"

Greatest May Precipitation 1.34" in 1905
 Least May Precipitation 0.00" in 2014 and 48 other years

Number of Days:

Clear 26
 Partly Cloudy 1
 Cloudy 0

Average Wind Speed 8.3 mph
 Highest Peak Gust 43 mph from 220° on 22nd

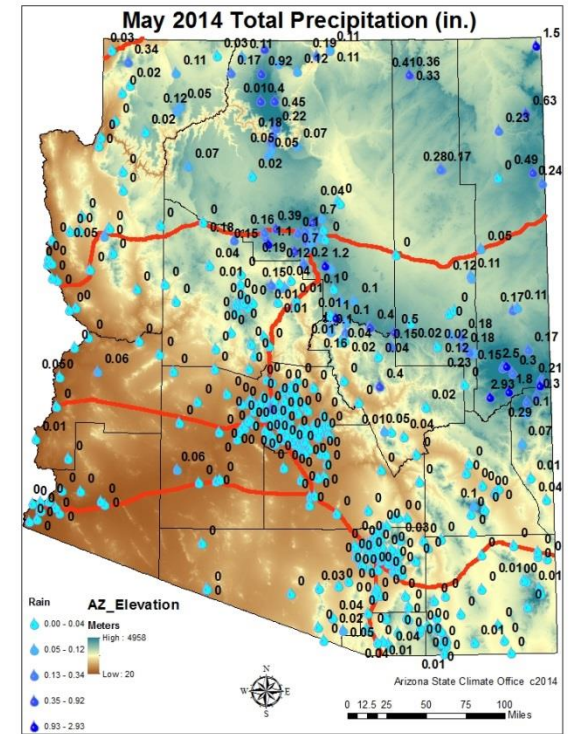
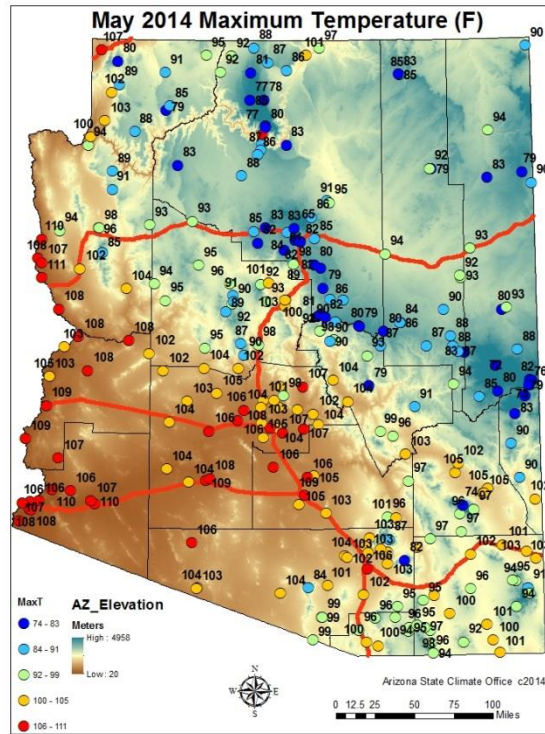
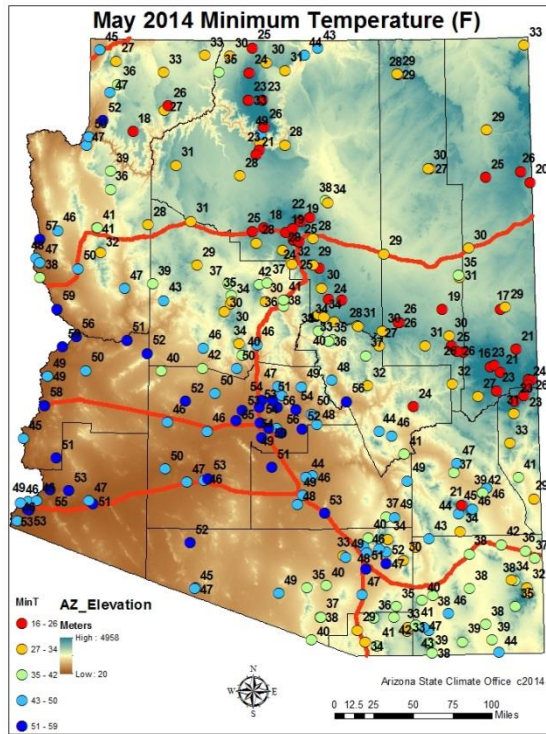
Data are from the National Weather Service and the National Climatic Data Center and are **preliminary**.

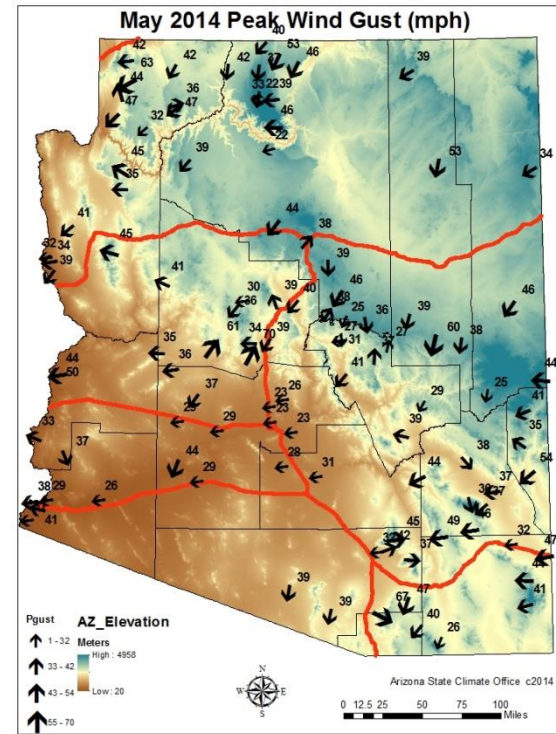
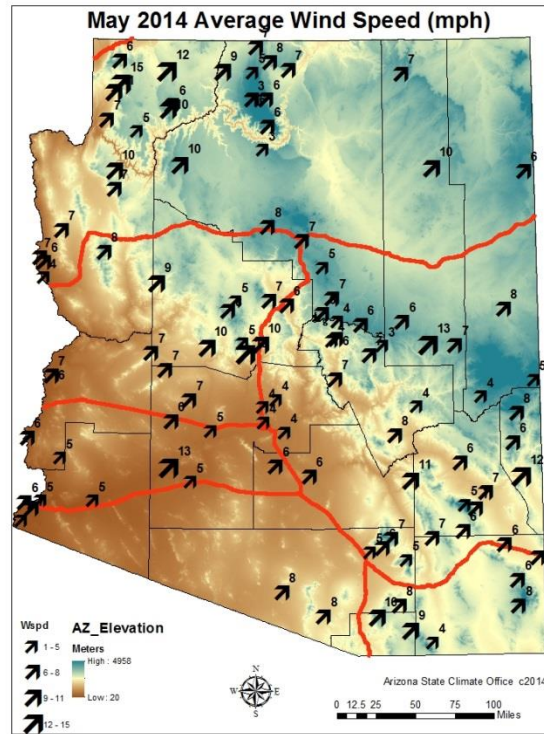
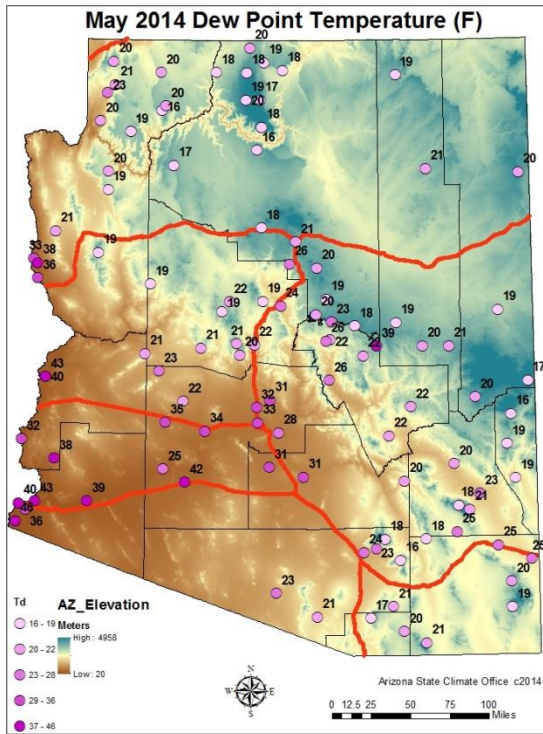
Wind Speeds:

Day	Phoenix		Flagstaff		Tucson	
	Avg	Max	Avg	Max	Avg	Max
1	10.4	34	15.1	38	10.7	39
2	4.8	17	3	17	6.8	18
3	6.5	32	6.4	24	5.9	22
4	9	26	11.3	38	7.2	27
5	8.9	40	15.1	42	10.5	31
6	12.1	38	20.4	53	12.8	37
7	7.6	27	12.9	35	8.1	30
8	4.8	21	8.1	29	5.6	18
9	3.7	20	10.5	37	6.4	23
10	9.1	21	15.4	44	10	30
11	16.7	37	12	41	12.1	34
12	8.4	26	9.1	32	5.8	22
13	15	35	22.1	46	5.3	18
14	10.3	31	12.3	37	15	42
15	7.4	23	5	31	7.1	27
16	6.7	22	6.9	32	7.2	23
17	8.3	26	8.6	34	5.8	23
18	9.1	23	14.6	44	8.4	26
19	9.6	23	17.7	44	10.4	29
20	9.2	27	15.8	49	11.4	36
21	7.1	26	13.3	37	9.8	42
22	6.7	26	7.6	39	10.4	43
23	9.2	28	6.3	35	9.6	35
24	7.5	27	4.2	23	5.7	23
25	6.7	22	3.5	37	6.3	28
26	6.5	26	3.6	22	7.6	26
27	7.9	23	5.6	23	5.8	25
28	7.4	19	8.8	33	7.5	24
29	8.9	29	3.7	20	7.2	28
30	6.4	21	4.9	26	7.5	24
31	6.8	28	10.4	38	7.3	25

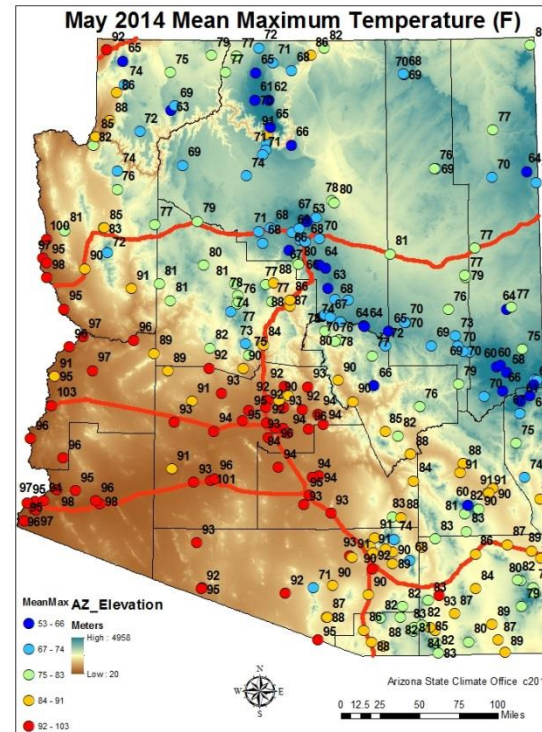
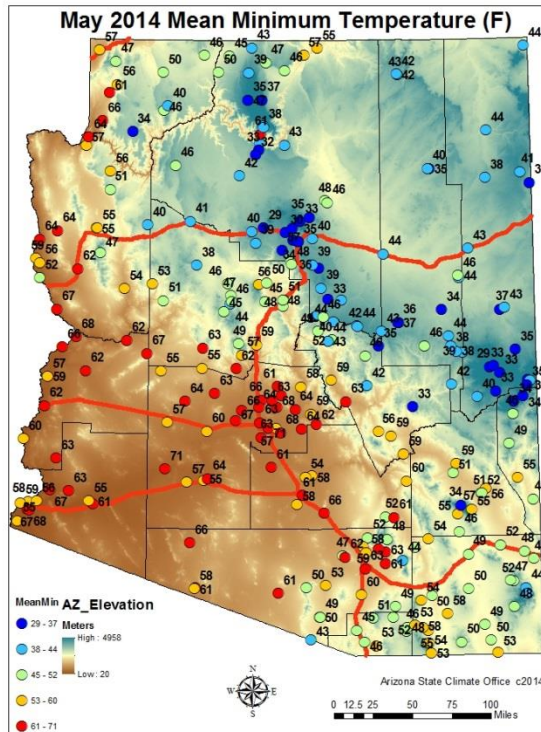
Dew Points for May:**Daily Average Dew Point (°F):**

Day	Phx	Tuc	Flg
1	15	15	15
2	21	11	14
3	20	10	16
4	23	15	15
5	22	10	16
6	27	26	19
7	33	21	24
8	32	22	27
9	33	24	27
10	26	28	22
11	26	15	20
12	17	11	18
13	15	17	10
14	17	11	14
15	23	11	16
16	20	9	17
17	18	2	13
18	18	1	11
19	23	5	9
20	21	12	10
21	19	14	11
22	27	12	15
23	32	28	20
24	38	33	28
25	38	32	31
26	38	32	30
27	33	29	29
28	36	34	32
29	38	34	31
30	41	35	31
31	37	32	32





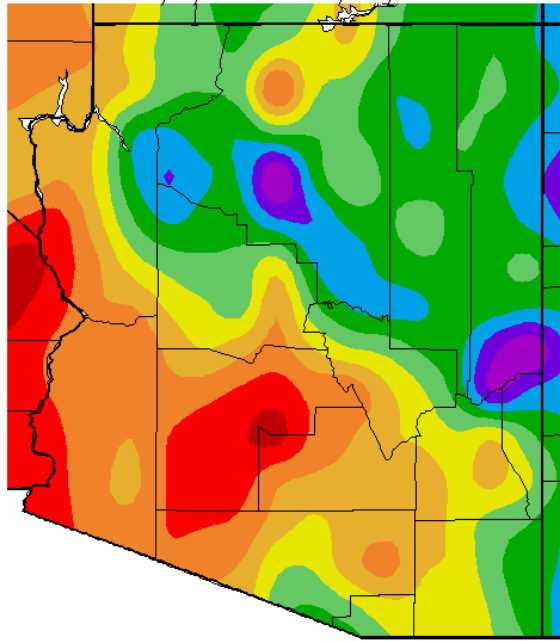
The lowest minimum temperature was 16°F at Sunrise Mountain, and the highest minimum was 59°F at Phoenix, Parker, and Lake Havasu. The lowest maximum temperature of 65°F was recorded at Snowslide Canyon, while the highest maximum temperature of 111°F was reported at Havasu, with Bullhead City and Tacna reporting 110°F. The lowest rainfall amount was 0.00” at most stations in Arizona and the highest was 2.93” at Mountain Lion in the White Mountains. The lowest dew point was 16°F at Tucson, Rincon, Stray Horse, and Mt. Logan and the highest was 46°F at Yuma. The highest peak wind gust was 70 mph at Humbug Creek.



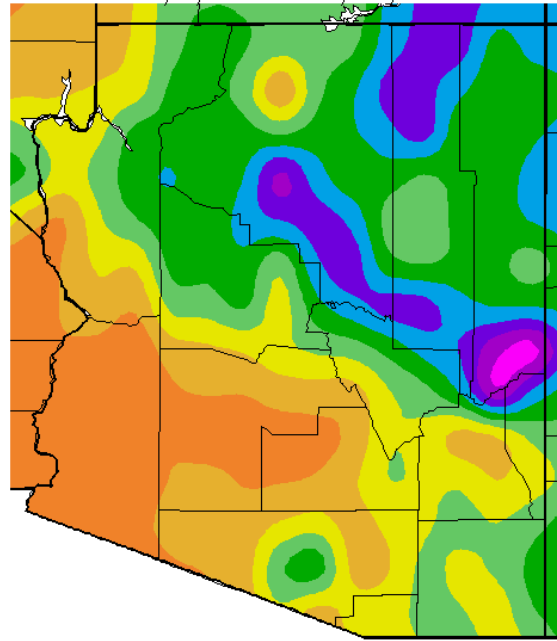
May 2014

The highest average minimum temperature was 71°F at Phoenix Sky Harbor AP and Oatman, and the lowest average minimum temperature was 29°F at Greenbase and Sunrise Mountain. The highest average maximum temperature was 103°F at Ehrenburg and lowest average maximum temperature was 53°F at Snowslide Canyon.

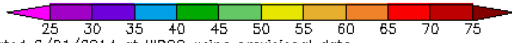
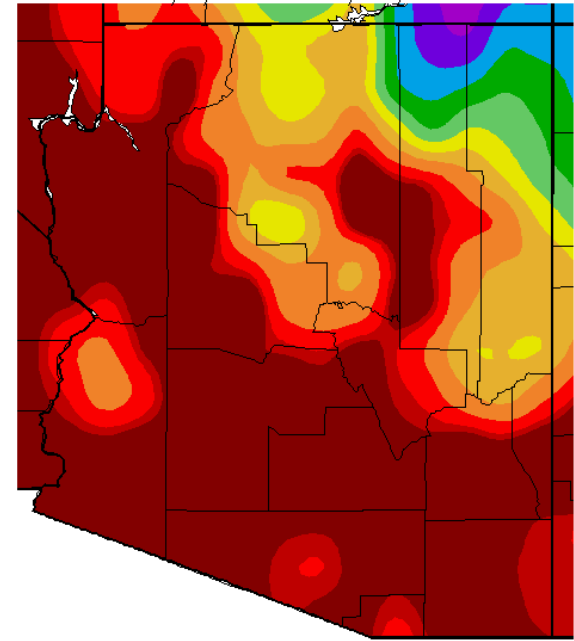
Av. Min. Temperature (deg. F)
5/1/2014 – 5/31/2014



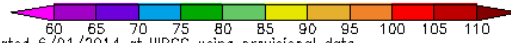
Av. Max. Temperature (deg. F)
5/1/2014 – 5/31/2014



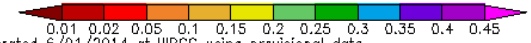
Total Precipitation (in.)
5/1/2014 – 5/31/2014



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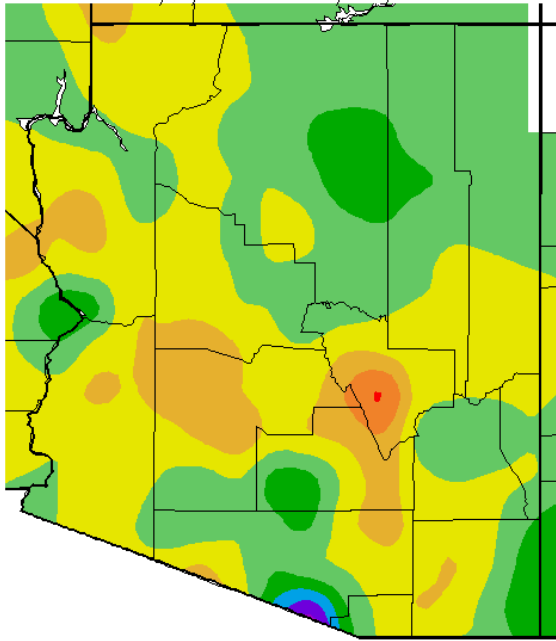


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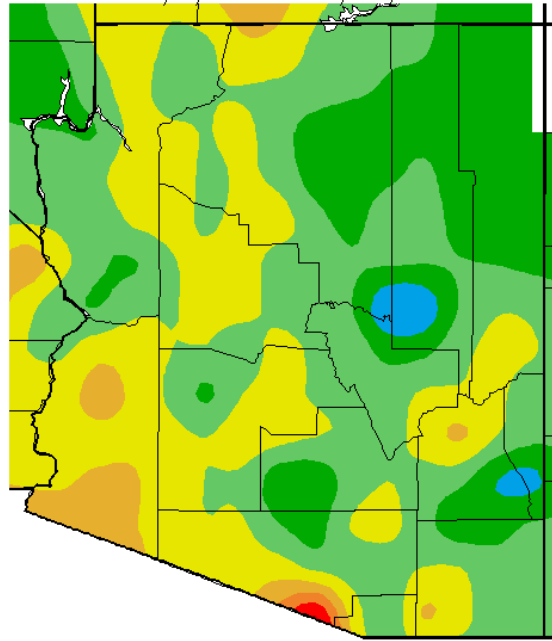
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Av. Min. Temperature dep from Ave (deg. F)
5/1/2014 – 5/31/2014



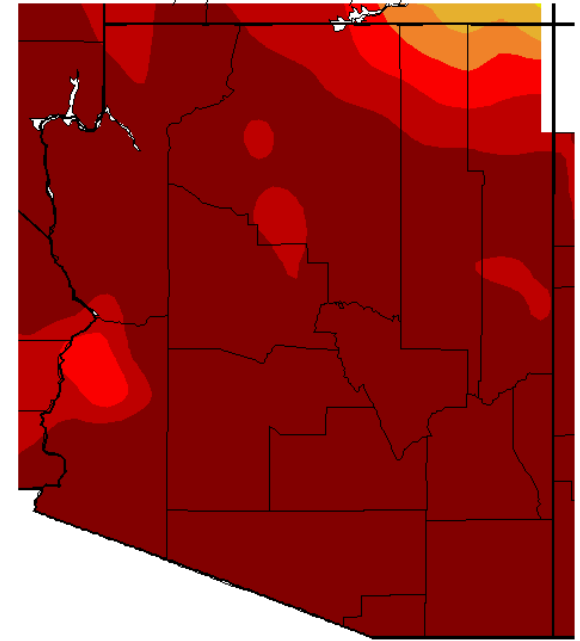
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Av. Max. Temperature dep from Ave (deg F)
5/1/2014 – 5/31/2014



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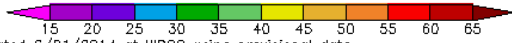
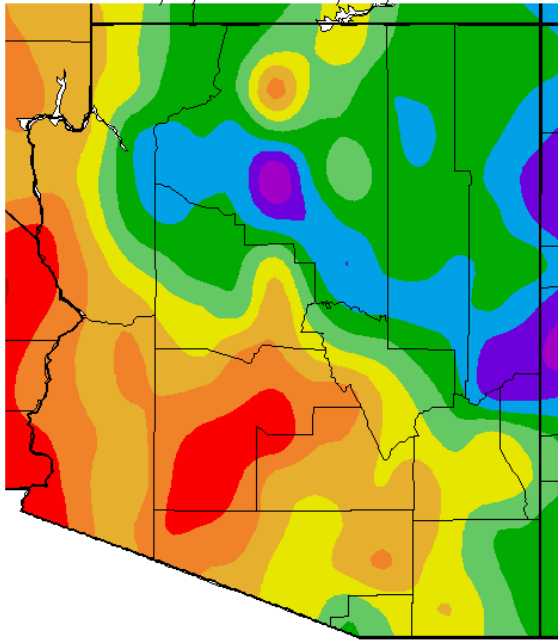
Percent of Average Precipitation (%)
5/1/2014 – 5/31/2014



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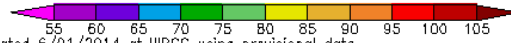
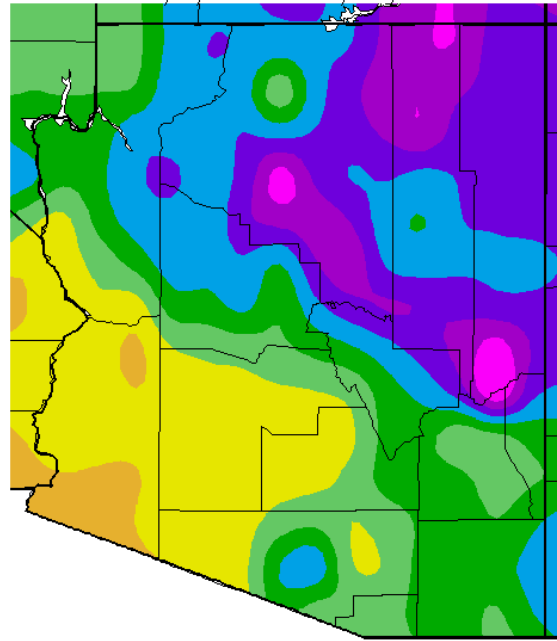
May minimum temperatures were 2°F cooler than normal on the Colorado Plateau, in south central and southeastern Arizona. Warmer than normal low temperatures were reported in central and western Arizona. Daytime temperatures were also 2 to 6°F cooler than normal on the Colorado Plateau and along the eastern half of the state. Slightly warmer than normal highs were reported in southwestern Arizona. May precipitation was less than 25% of normal statewide with only the northeast corner and La Paz County receiving 25 to 50% of normal rainfall.

Av. Min. Temperature (deg. F)
1/1/2014 – 5/31/2014



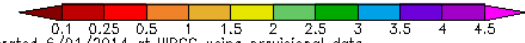
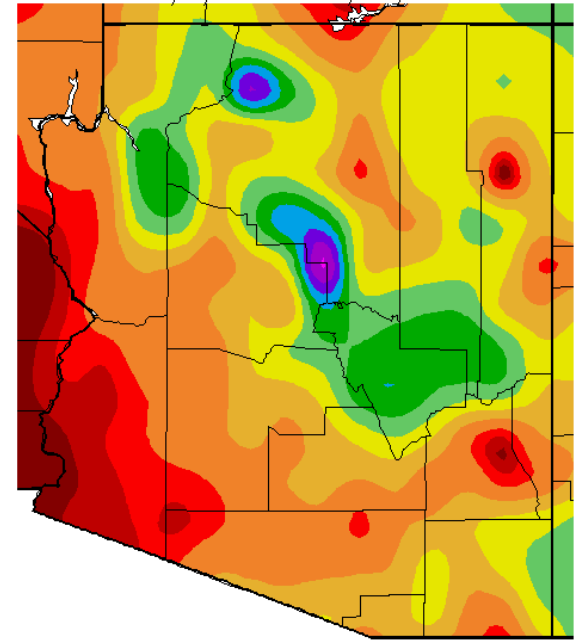
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Av. Max. Temperature (deg. F)
1/1/2014 – 5/31/2014



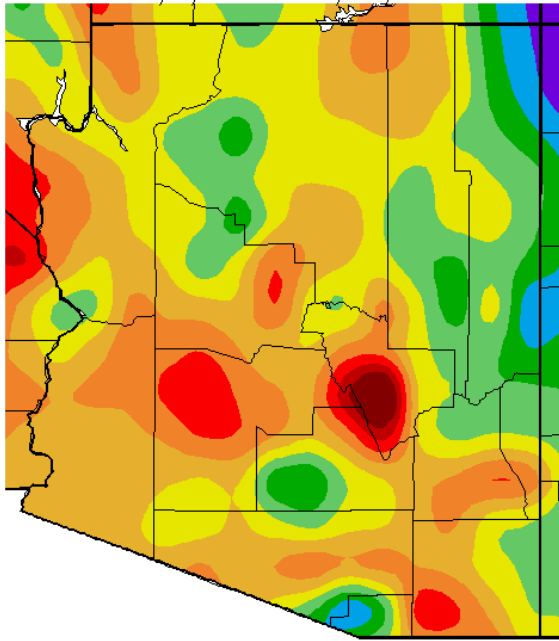
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Total Precipitation (in.)
1/1/2014 – 5/31/2014



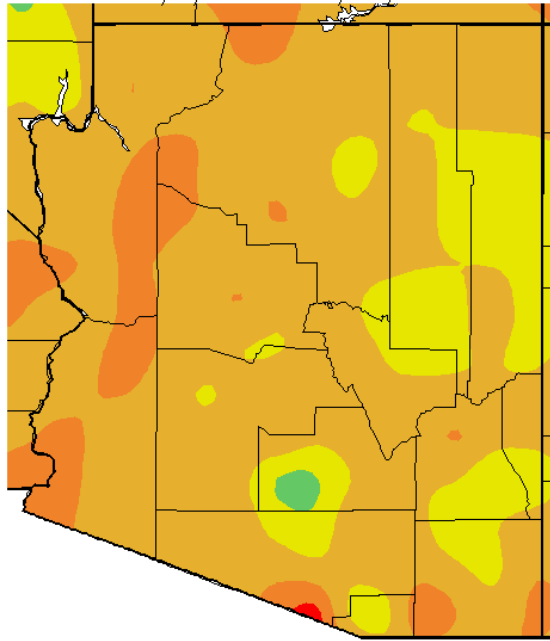
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Av. Min. Temperature dep from Ave (deg. F)
1/1/2014 – 5/31/2014



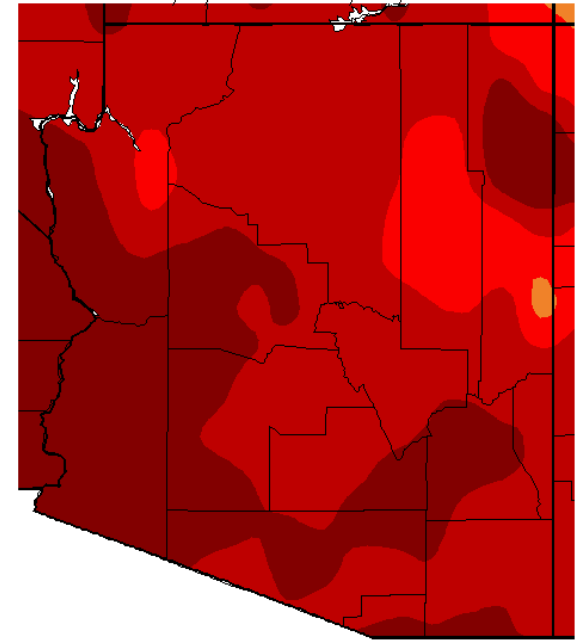
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Av. Max. Temperature dep from Ave (deg F)
1/1/2014 – 5/31/2014



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Percent of Average Precipitation (%)
1/1/2014 – 5/31/2014

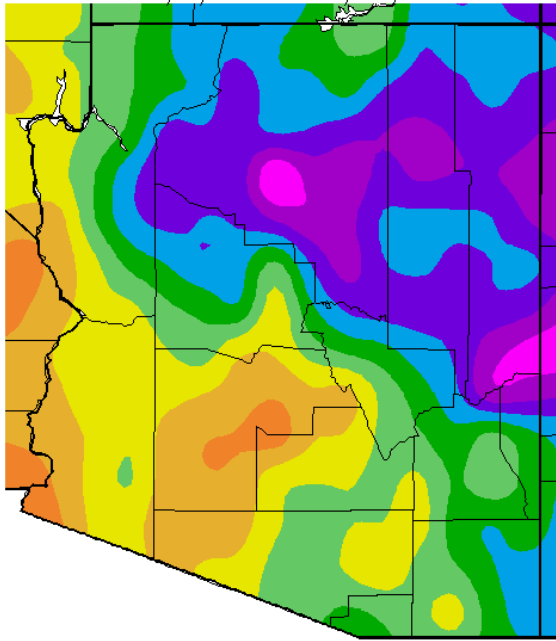


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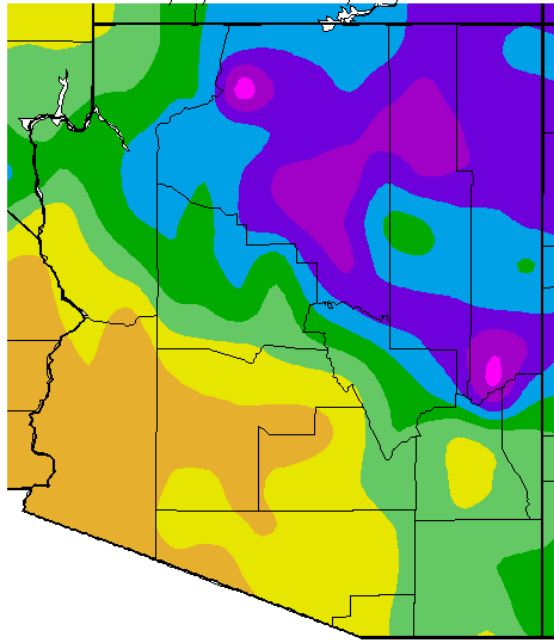
Calendar Year 2014

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 has received less than 25% of normal precipitation.

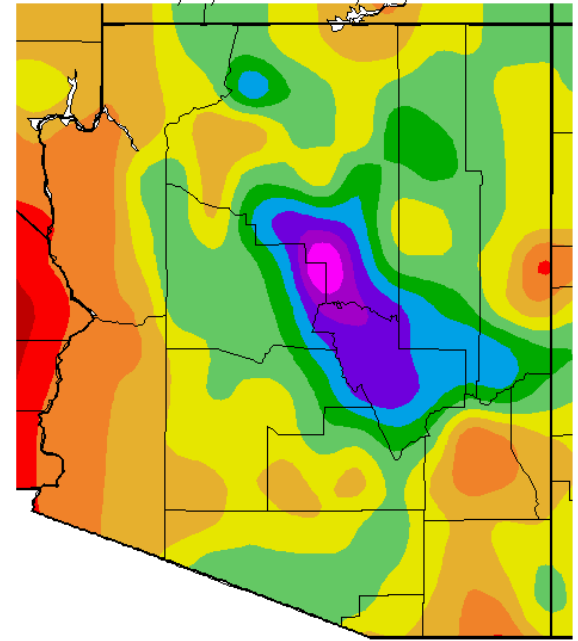
Av. Min. Temperature (deg. F)
10/1/2013 – 5/31/2014



Av. Max. Temperature (deg. F)
10/1/2013 – 5/31/2014



Total Precipitation (in.)
10/1/2013 – 5/31/2014

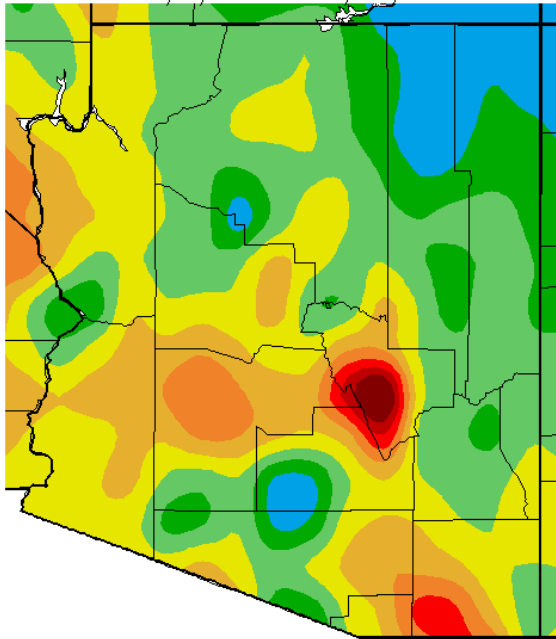


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NOAA Regional Climate Centers

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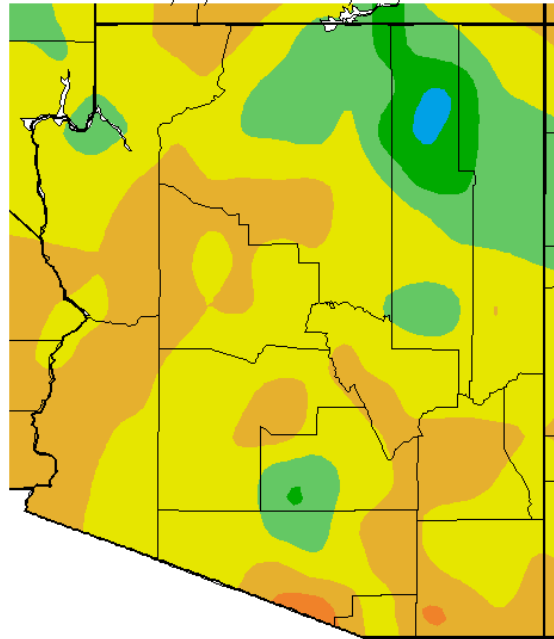
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Av. Min. Temperature dep from Ave (deg. F)
10/1/2013 – 5/31/2014



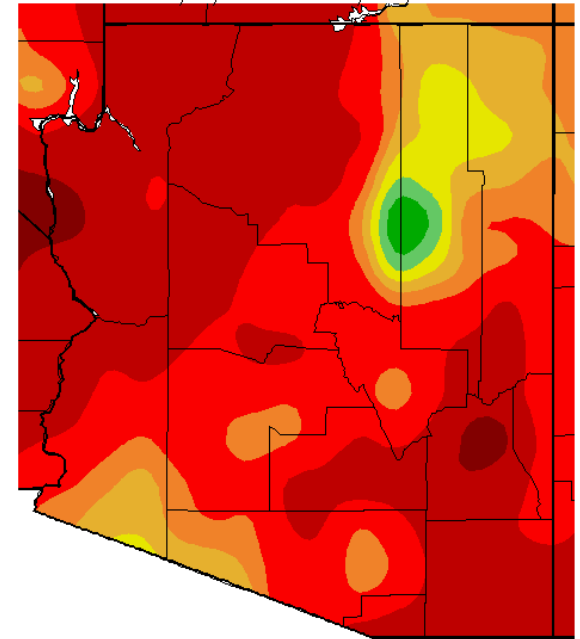
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Av. Max. Temperature dep from Ave (deg F)
10/1/2013 – 5/31/2014



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Percent of Average Precipitation (%)
10/1/2013 – 5/31/2014

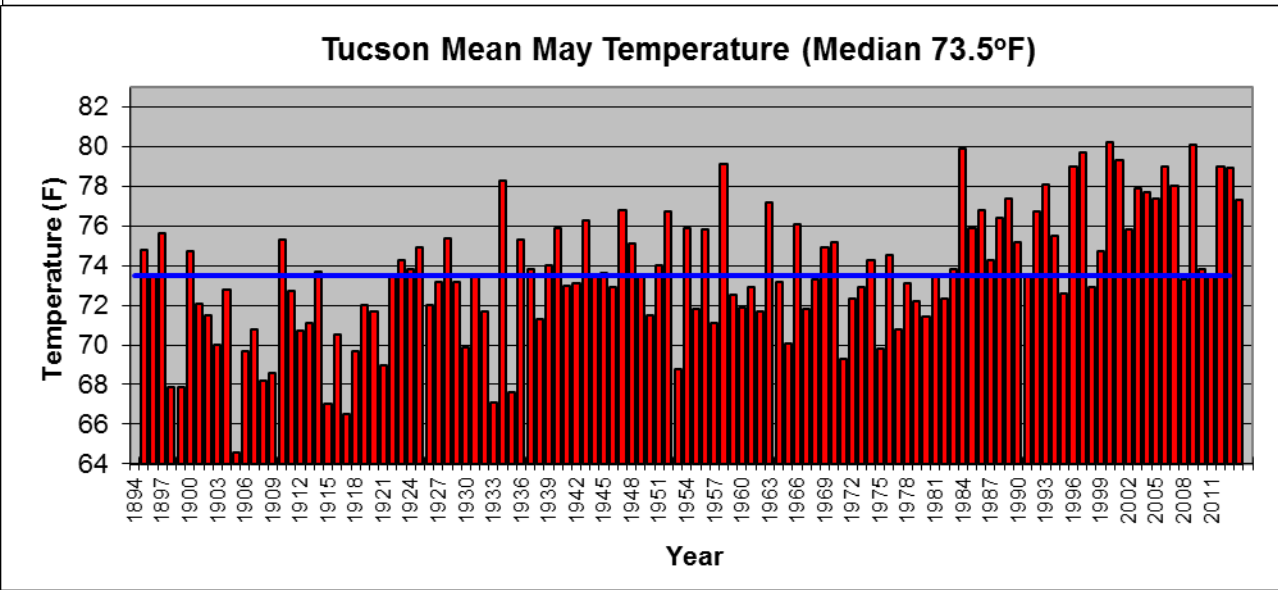
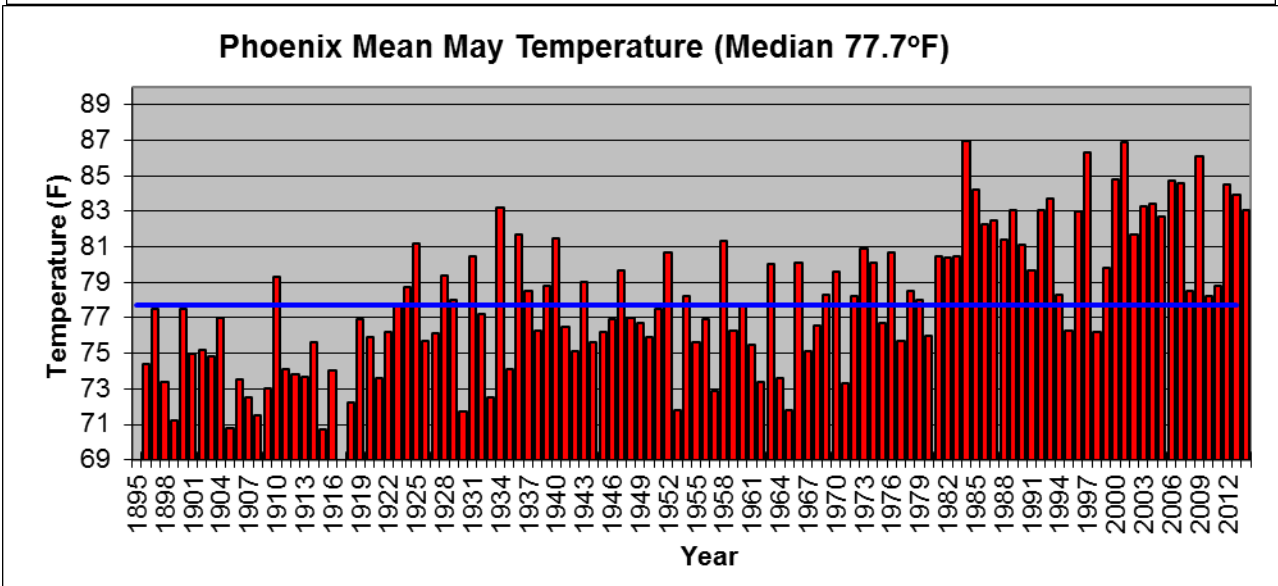
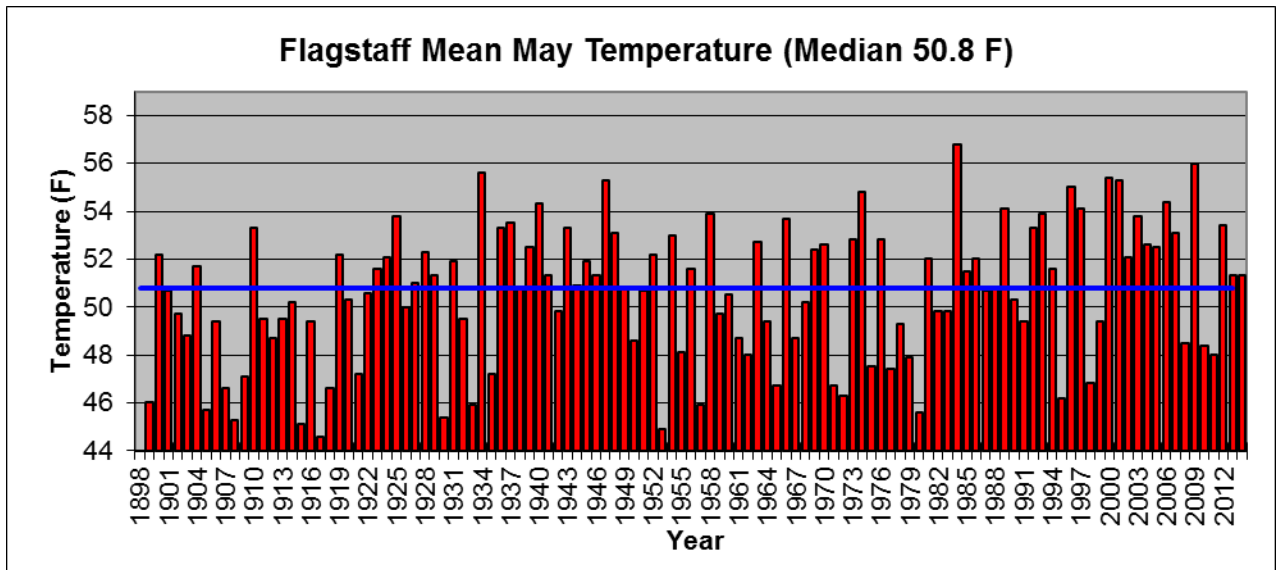


Generated 6/01/2014 at WRCC using provisional data.
NOAA Regional Climate Centers

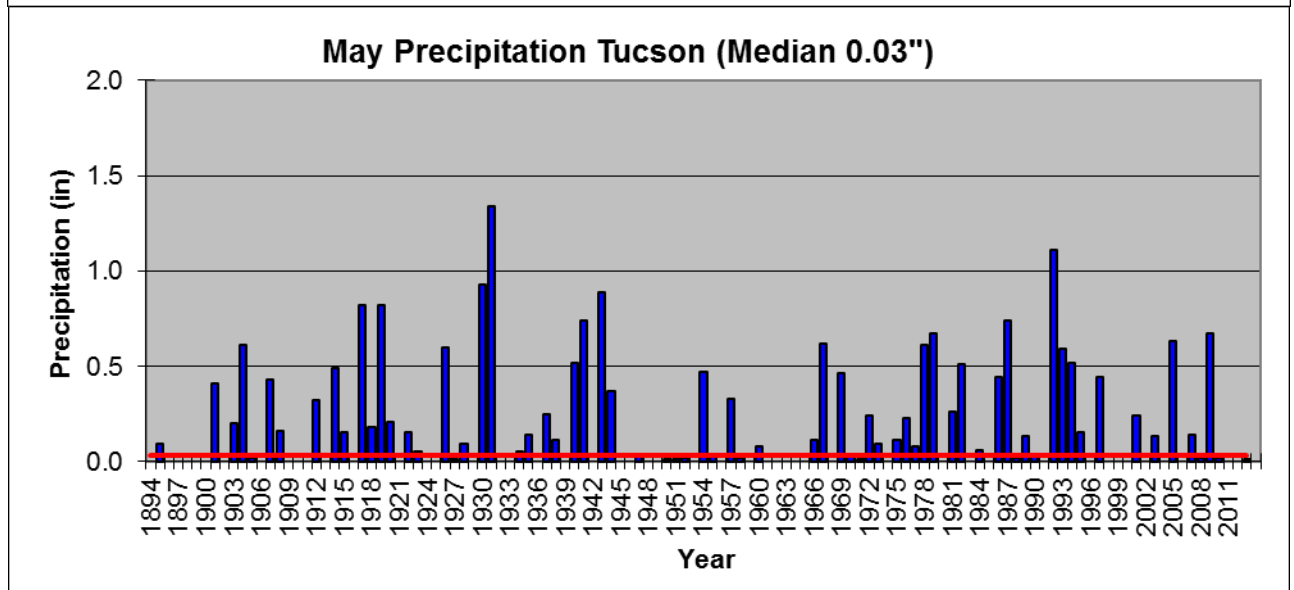
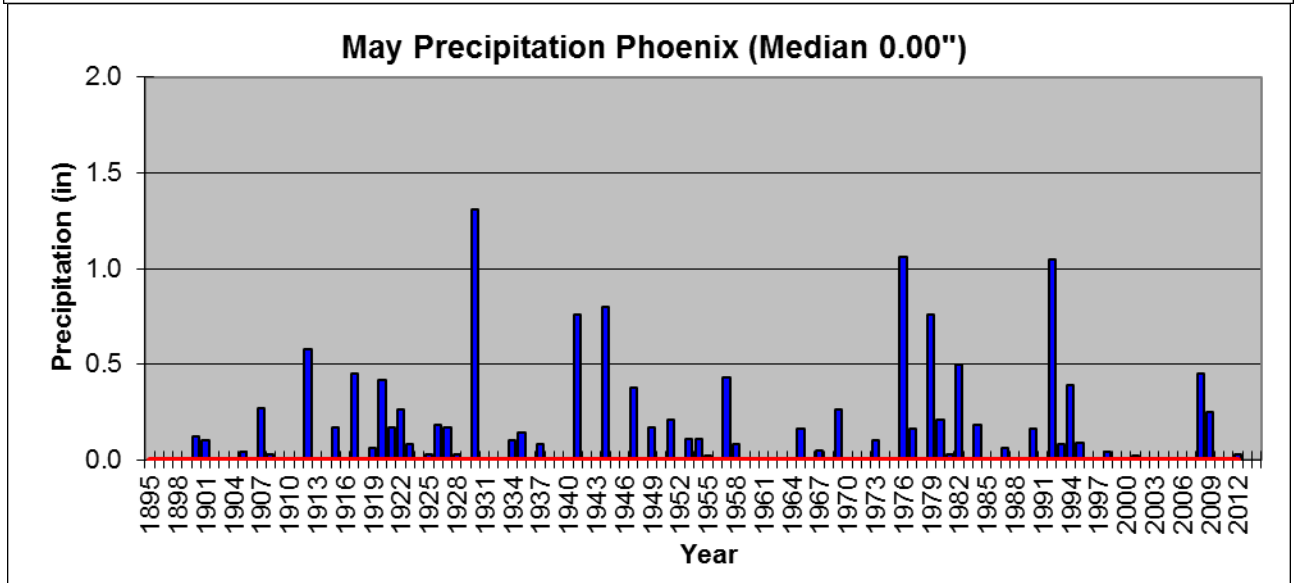
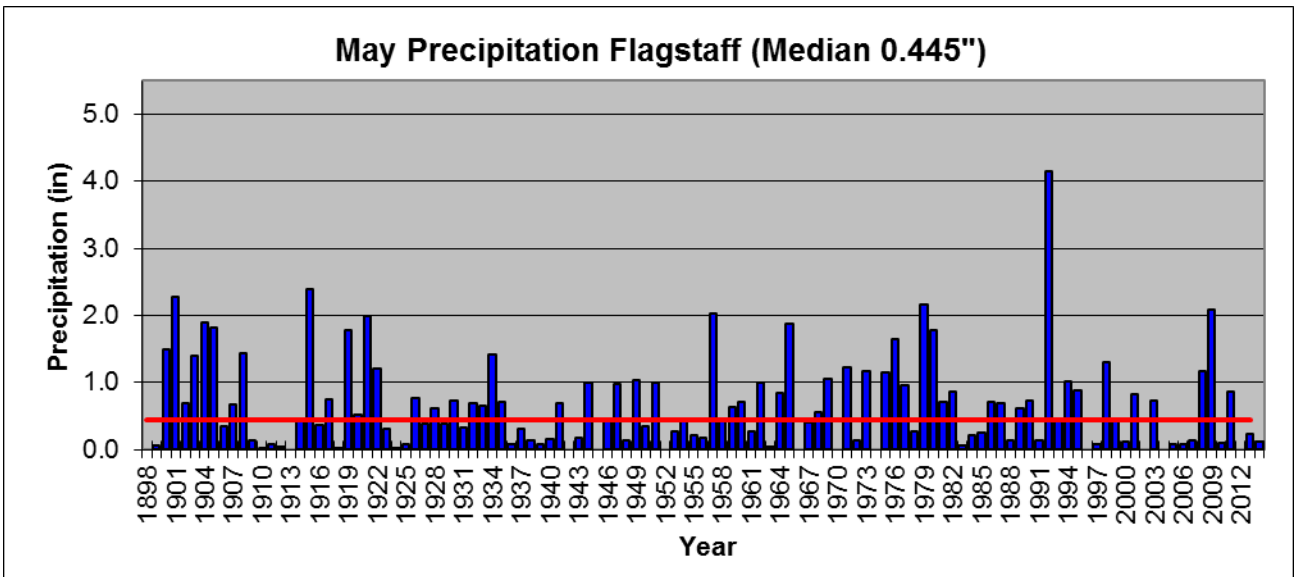
2014 Water Year

Minimum temperatures on the Colorado Plateau are 0 to 3°F cooler than normal, while the southwestern half of the state has been 0 to 3°F warmer than normal. Gila County has been 3 to 6°F warmer than normal. Daytime temperatures have been 0 to 4°F warmer than normal across most of the state, with the northeastern corner 0 to 4°F cooler than normal. Dry conditions continue across the state with a swath from the southwest to the northeast at 70% of average precipitation, and the northwest and southeast quarters at 50% of average. The northeastern area of the state has received near or greater than average precipitation.

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

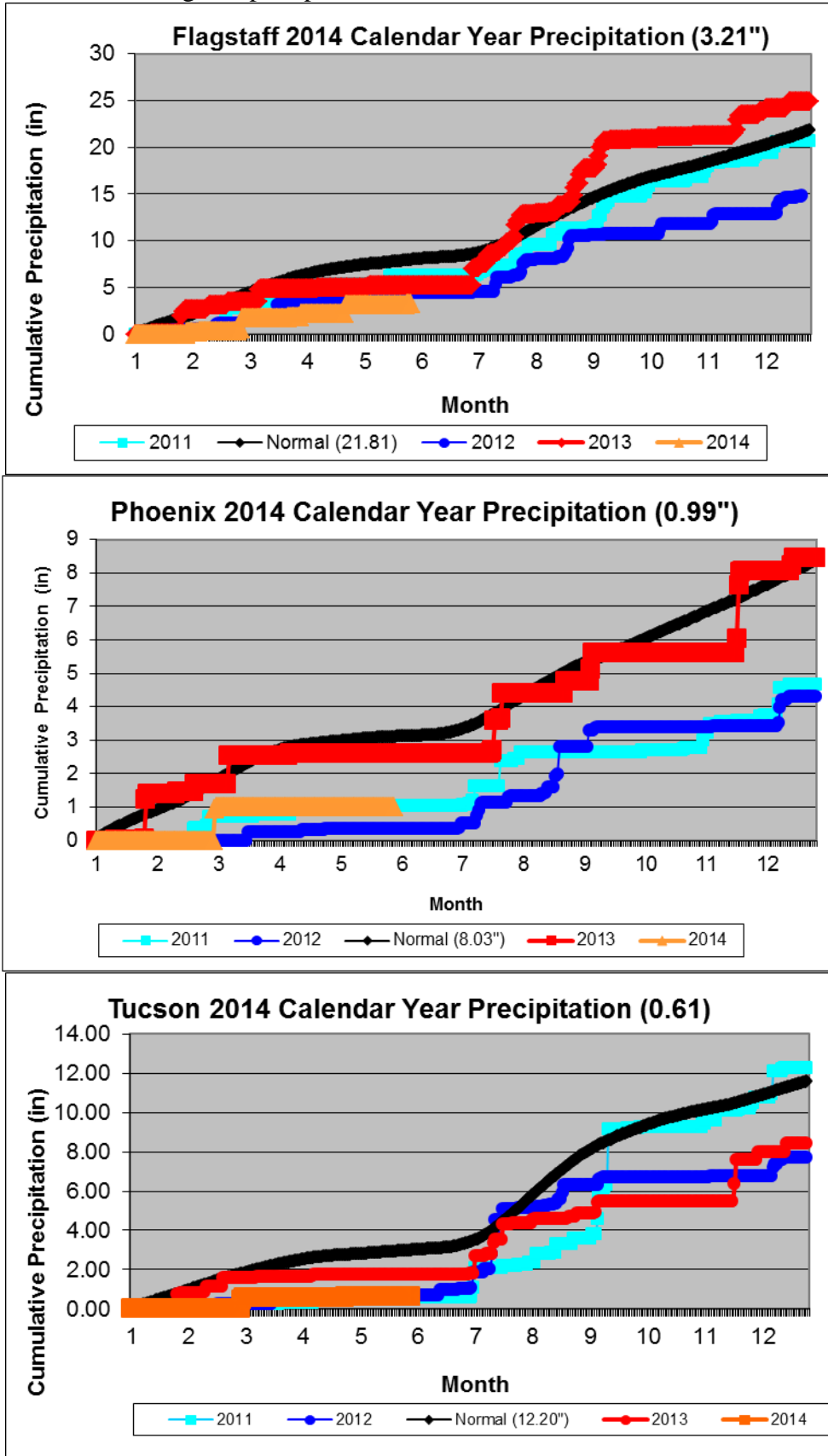


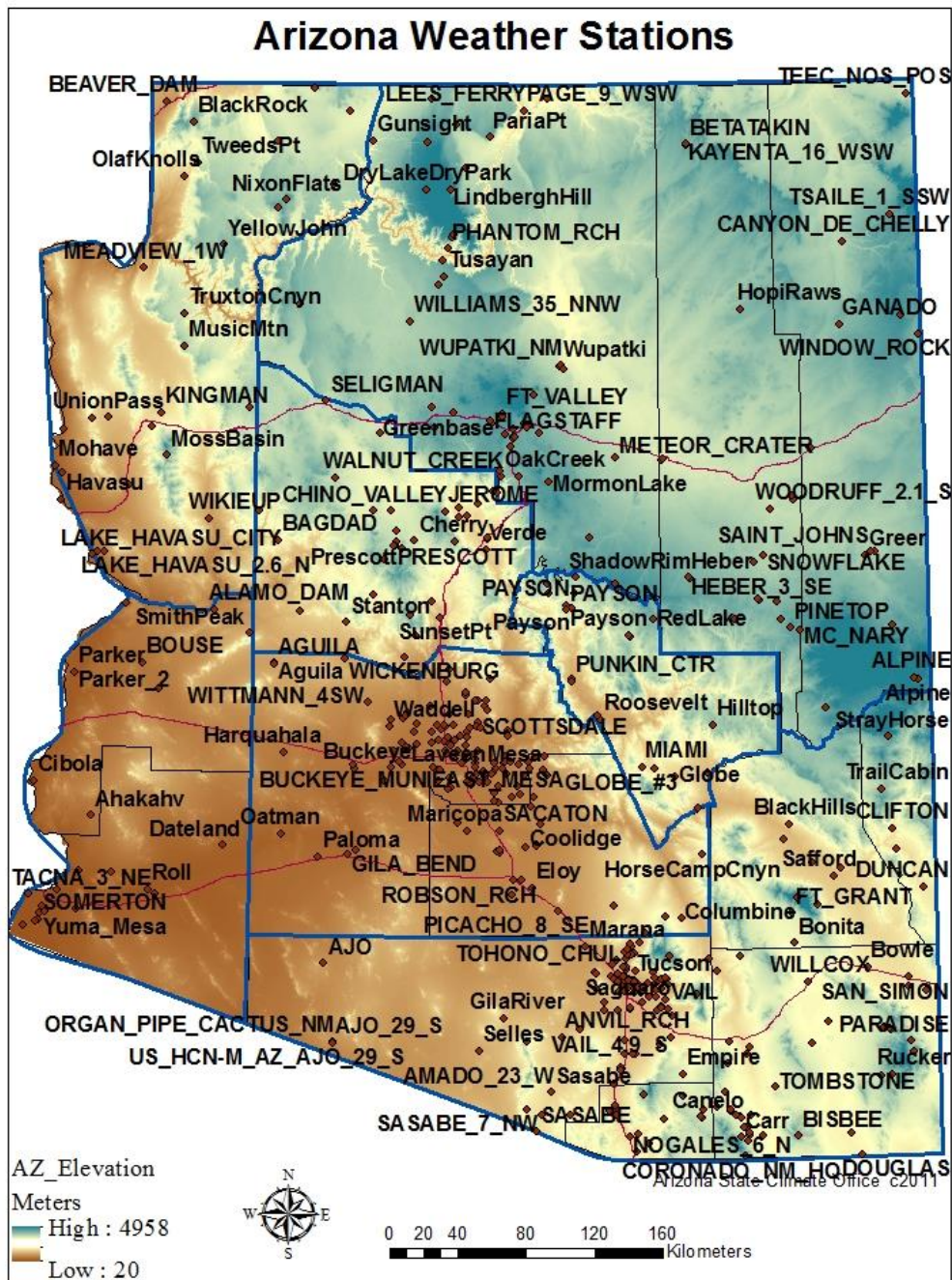
May Mean Precipitation Graphs – Flagstaff, Phoenix, and Tucson 1895-2014:



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)