NWS Wilmington, Ohio
September 2018
Regional Climate Summary

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September 2018 was a warm and wet month. Precipitation values were not only above normal, but well above normal across a majority of the region. Temperatures were also several degrees above normal across a large portion of the region. The main type of severe weather that occurred during the month was flooding and flash flooding due to the well above normal precipitation. Isolated damaging winds, hail, and a tornado also occurred during the month.

Temperatures

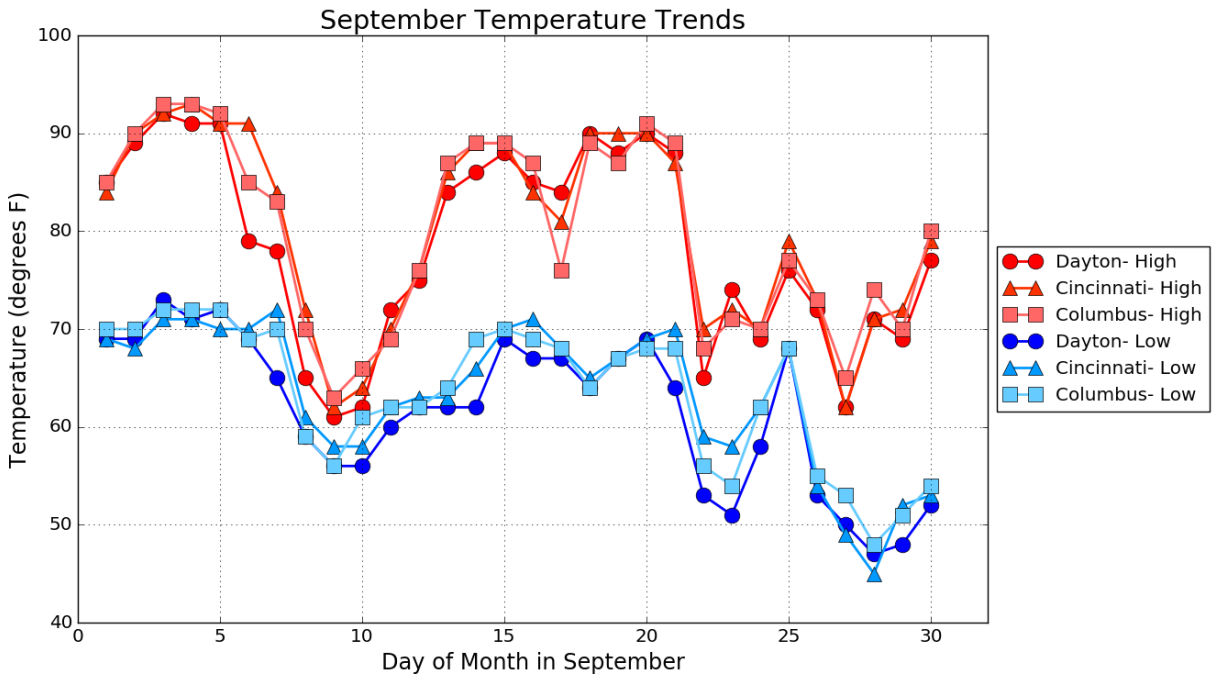
Although September is often viewed as a transitional month for the weather pattern, it largely remained stuck on summer mode across the Ohio Valley this year. In fact, a daily record warm low temperature was tied at Columbus on the 5th (low only fell to 72˚F), tying the record originally set in 1961.

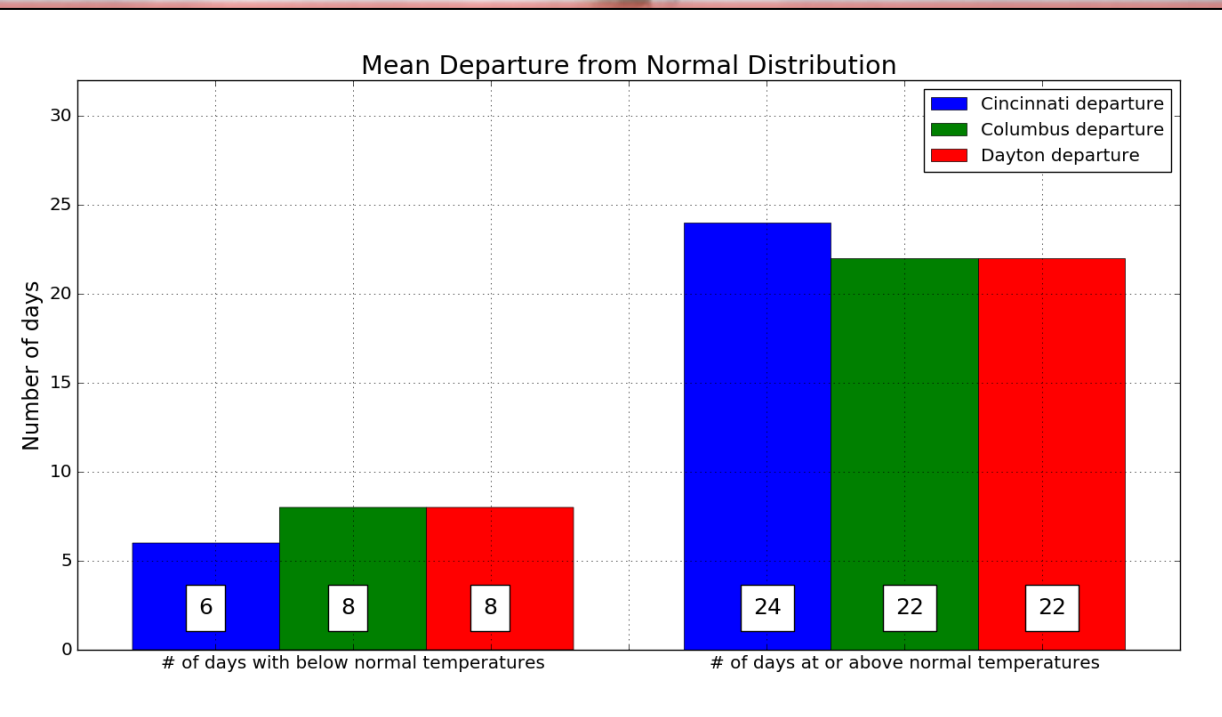
After a very warm start to the month, with multiple days with widespread high temperatures reaching into the lower 90s, a brief cooldown occurred coincident with the remnants of Tropical Storm Gordon moving through the region from the 8th through the 10th. The widespread cloud cover and precipitation associated with the system kept afternoon temperatures in the mid 60s but overnight lows only around 60˚F. In fact, a daily record cool high temperature was set at Cincinnati (62˚F) and Dayton (61˚F) on September 9th.

By mid-month, the pattern shift back to one often associated with summer as highs reached near 90˚F and lows only dropped into the 60s. This summerlike pattern, which featured bouts of scattered showers/storms, lasted several days before a brief cooldown once again occurred by the 22nd. A somewhat rainy stretch through the 26th kept temperatures down a bit before drier weather and warmer temperatures returned towards the very end of the month.

Site	Avg Temp (°F)	Avg High Temp (°F)	Avg Low Temp (°F)	Departure From Normal (°F)	Maximum Temperature (°F)	Minimum Temperature (°F)
Cincinnati (CVG)	70.8	80.1	63.4	+4.2	93	45
Columbus (CMH)	71.7	79.9	63.4	+4.9	93	48
Dayton (DAY)	70.2	78.6	61.7	+4.8	92	47

Temperatures (Continued)





Precipitation

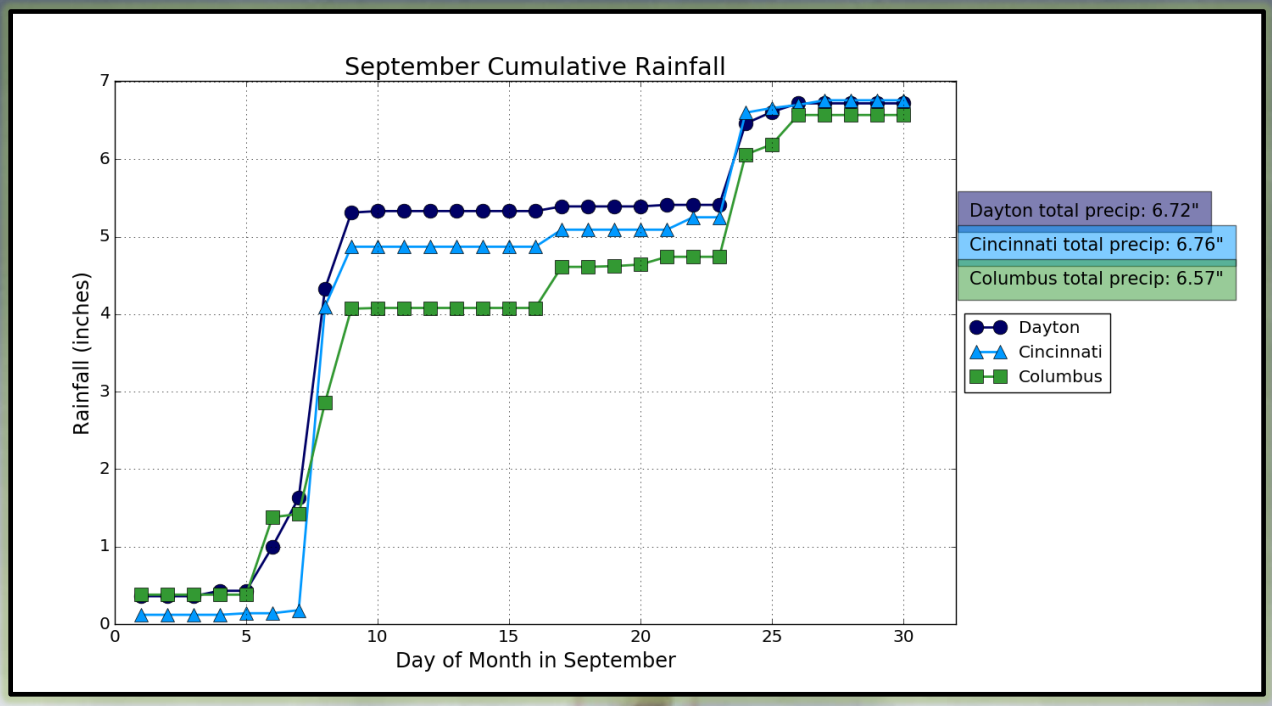
Although September is typically one of the region's driest months of the year, the weather pattern of this past September certainly didn't cooperate with that notion.

The first week or so of the month featured summerlike heat and a relatively-dry pattern overall before the remnants of Tropical Storm Gordon merged with a nearly-stationary front draped across the Ohio Valley. This system brought widespread heavy rainfall to the local area, with many areas receiving at least 2 to 5+ inches of rain from the 8th through the 9th. In fact, a whopping 3.92" of rain was measured on the 8th at Cincinnati (CVG), the 10th wettest single day on record for the site. 2.70" of rain was recorded at Dayton (DAY), a daily record for the site. Due to the positioning and orientation of the heavy rain bands, the heaviest of rain (which produced between 4 and 6 inches of rain) occurred near and south of the Ohio River, affecting parts of northern Kentucky and south-central Ohio. The widespread heavy rain led to rises on many area creeks, streams, and rivers.

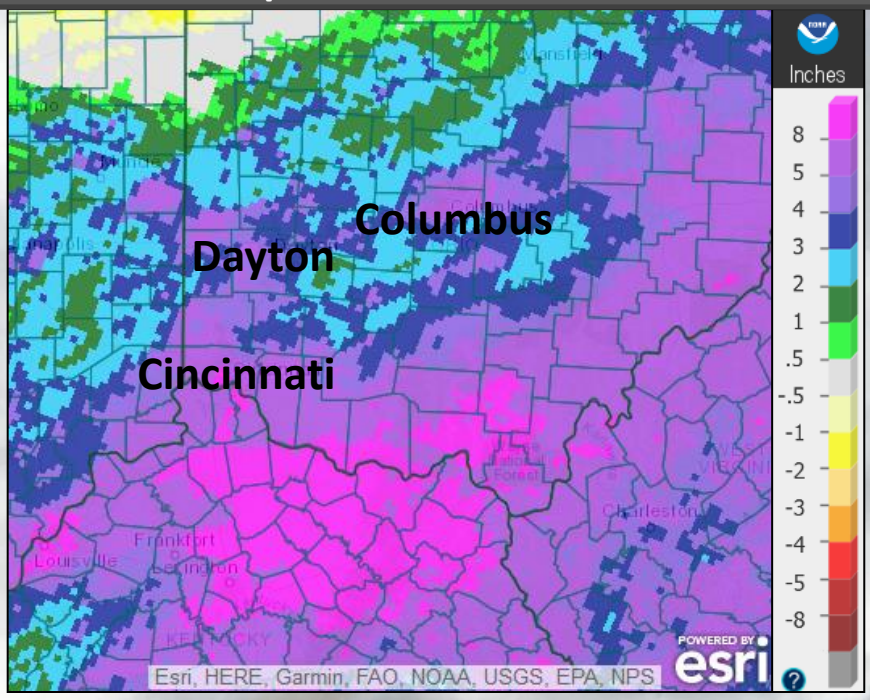
After the wet period from the 8th through the 10th, a somewhat drier and much-needed weather pattern evolved from the 11th through the 20th, with only isolated to scattered storms producing rainfall at times during this period. By the 21st, a strong cold front moving through the area produced scattered storms with locally heavy rainfall. A more widespread rain event evolved by the 24th into the 26th, with multiple rounds of heavy rain with embedded thunderstorms before drier conditions returned by the 27th through the end of the month.

Site	Total Precipitation (in.)	Departure From Normal (in.)	Max Daily Precipitation (in./date)		Total Snowfall (in.)	Max Daily Snowfall (in./date)	
Cincinnati (CVG)	6.76	+4.13	3.92	8th	0	0	-
Columbus (CMH)	6.57	+3.73	1.44	8th	0	0	-
Dayton (DAY)	6.72	+3.42	2.7	8th	0	0	-

Precipitation (Continued)

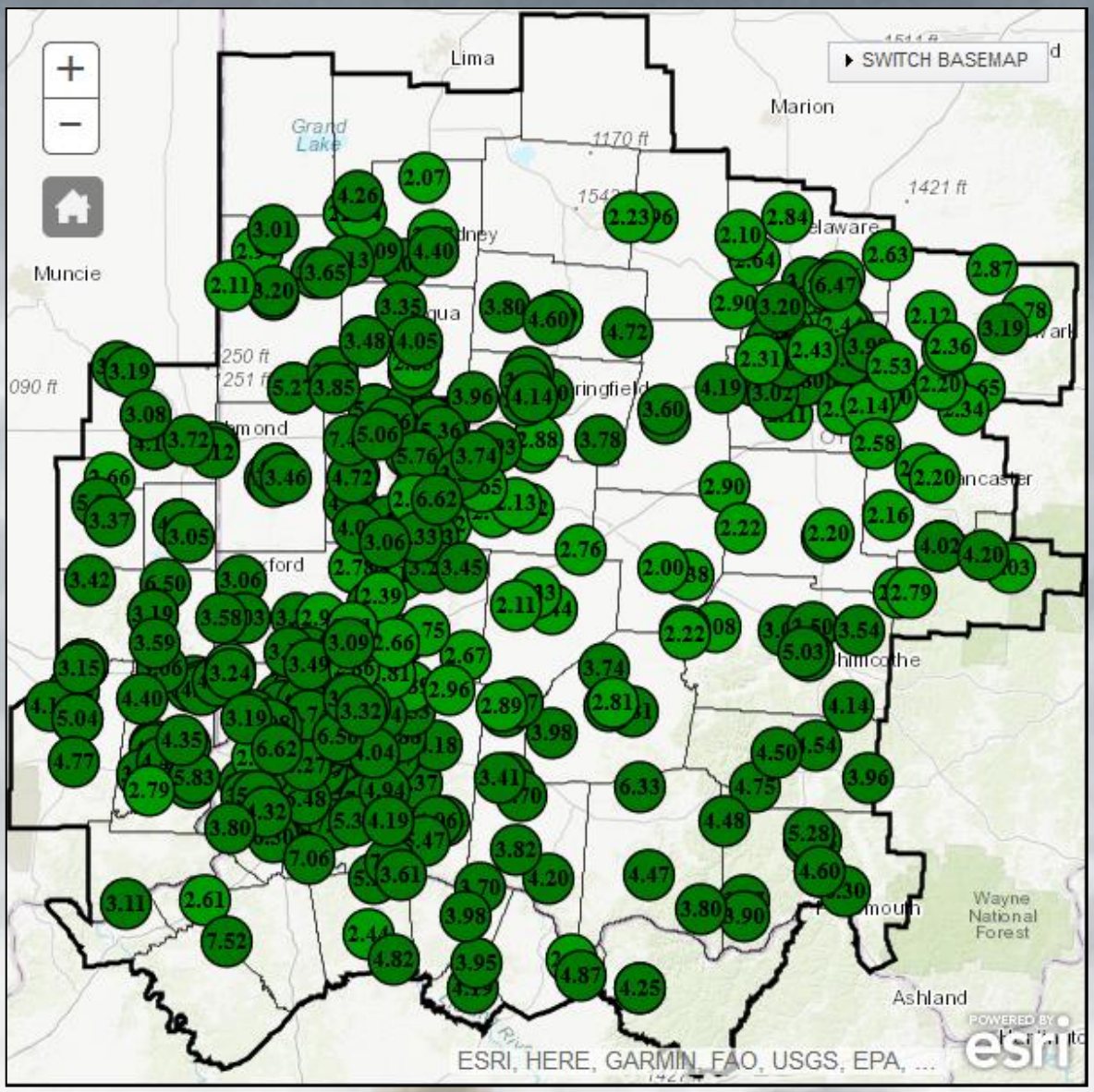


September Precipitation Departure From Normal



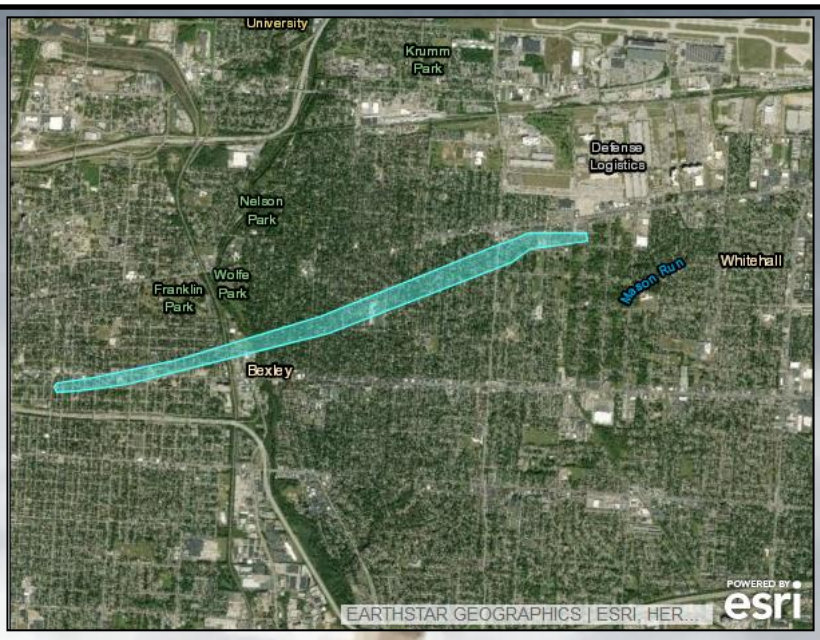
Precipitation (Continued)

Significant rainfall occurred several days during the month, however one particular event of note was the heavy rainfall from the remnants of tropical storm Gordon. Here are some of the rainfall totals from the multiple day event.



Severe Weather

A tornado occurred on the east side of Columbus near Bexley from 553am-557am on September 26th. The tornado was rated an EF-1 with estimated wind speeds of 90 mph. The length was 3.75 miles. Below is a picture of the path and damage that occurred as a result of the tornado.



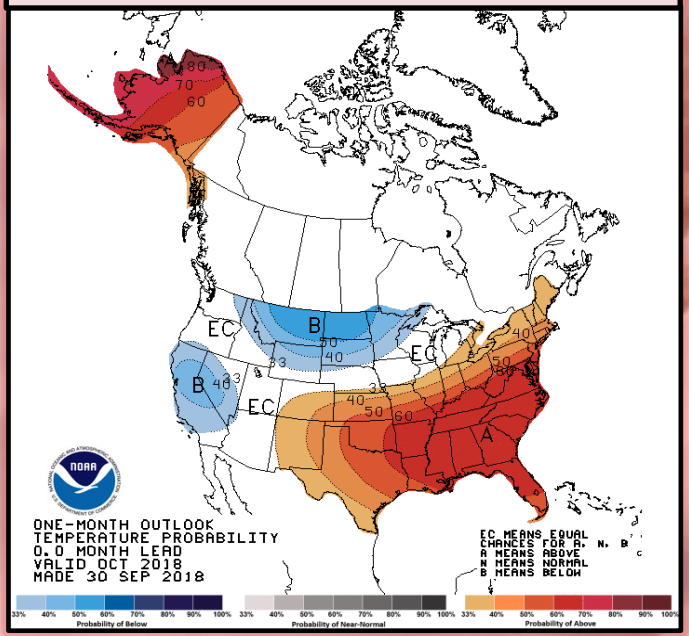
October Outlook

The latest outlook from the Climate Prediction Center calls for an increased likelihood of above normal temperatures and precipitation across most of the region.

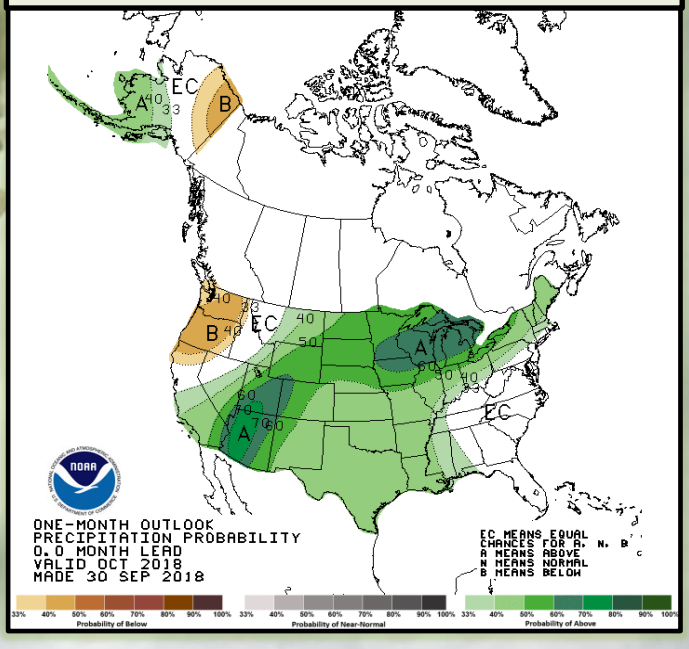
Site	Normal Avg Temp (°F)	Normal High (°F)	Normal Low (°F)
Cincinnati (CVG)	55.9˚F	66.2F	45.5F
Columbus (CMH)	55.0 F	65.1F	45.0F
Dayton (DAY)	53.9F	63.8F	44.0F

Site	Normal Precipitation (in.)	Normal Snowfall (in.)
Cincinnati (CVG)	3.30”	0.4”
Columbus (CMH)	2.61”	0.2”
Dayton (DAY)	2.93”	0.4”

Upcoming Temperature Outlook



Upcoming Precipitation Outlook

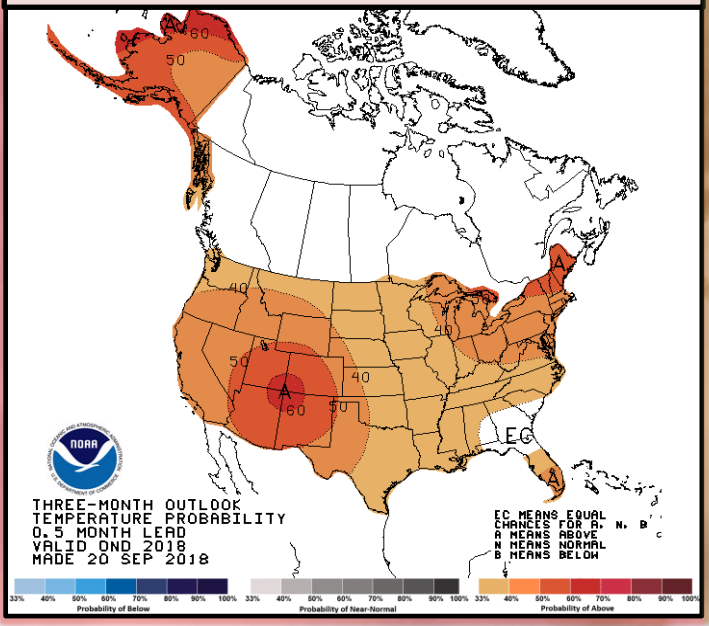


October-December Outlook

There is an increased likelihood of above normal temperatures during the October to December time-frame. There is not as clear of a signal for precipitation with equal chances of below normal, normal, and above normal precipitation.

The El Niño watch continues with a 50-55% chance of El Niño this fall and then increasing to a 60-70% chance during the winter months.

Three-Month (OND) Temp. Outlook



Three-Month (OND) Precip. Outlook