

6-Month Climate Model Forecast Summary for Pennsylvania

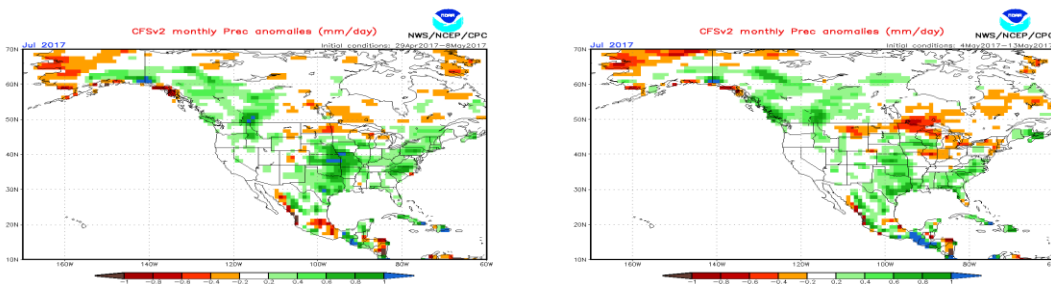
May 15, 2017

Climate models continue to improve and may have some skill in forecasting patterns of temperature and precipitation anomalies several months in advance. However, climate modeling is still a very inexact science. Lacking highly precise observations from the earth's environment (air, land and sea) and a full understanding of the scientific processes that affect the motions in the atmosphere, it is impossible to make precise seasonal-scale weather predictions with any accuracy. Please keep this in mind as you review this forecast.

The following forecast is produced based on analysis of monthly forecast products from the Climate Forecast System Version 2 (CFS) and the North American Multi-Model Ensemble (NMME). Links to forecasts are provided at the end of this document.

Discussion:

Recent daily CFS forecasts and the NMME have maintained above normal temperatures across Pennsylvania for the month of June, but not significantly above normal. Precipitation, however, remains uncertain. July leans warm, but precipitation now leans closer to normal in the CFS which is in agreement with the NMME.



August temperatures look a bit warm and precipitation a bit dry, but not unusually so. September and October are also warm but not far from normal, while precipitation is uncertain. November continues the slightly above normal trend in temperature with uncertain precipitation. Here's the forecast summary for the next six months:

Forecast:
Changes highlighted in yellow
Previous forecast in parentheses

<u>Month</u>	<u>Temperature</u>	<u>Precipitation</u>
June	N (N)	U (U)
July	N (N)	N (A)
August	N (N)	N (N)
September	N (N)	U (A)
October	N (N)	U (N)
November	N (-)	U (-)

BB = Much Below Normal

B = Below Normal

N = Near Normal

A = Above Normal

AA = Much Above Normal

U = Uncertain

The next forecast will be issued on June 1, 2017.

References:

CFS forecasts:

<http://www.cpc.ncep.noaa.gov/products/CFSv2/CFSv2seasonal.shtml>

CFS forecasts:

<http://www.cpc.ncep.noaa.gov/products/people/mchen/CFSv2FCST/monthly/>

NMME forecasts: <http://www.cpc.ncep.noaa.gov/products/NMME/monanom.shtml>

NMME forecasts:

<http://www.cpc.ncep.noaa.gov/products/NMME/verif/monindex.html>