



Monday June 10th

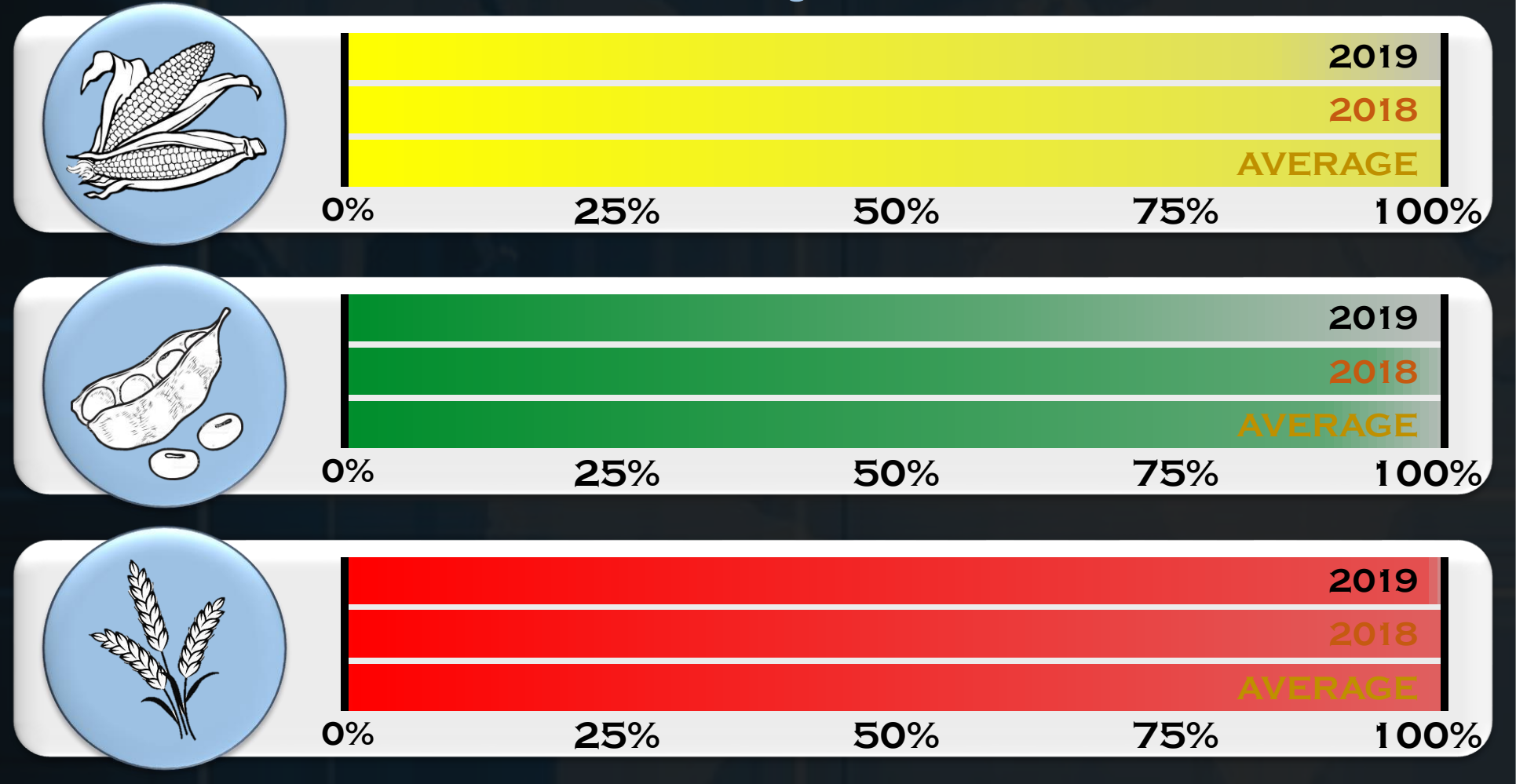
AGwx Report

<https://www.youtube.com/watch?v=5mZGBlzug98&feature=youtu.be&hd=1>

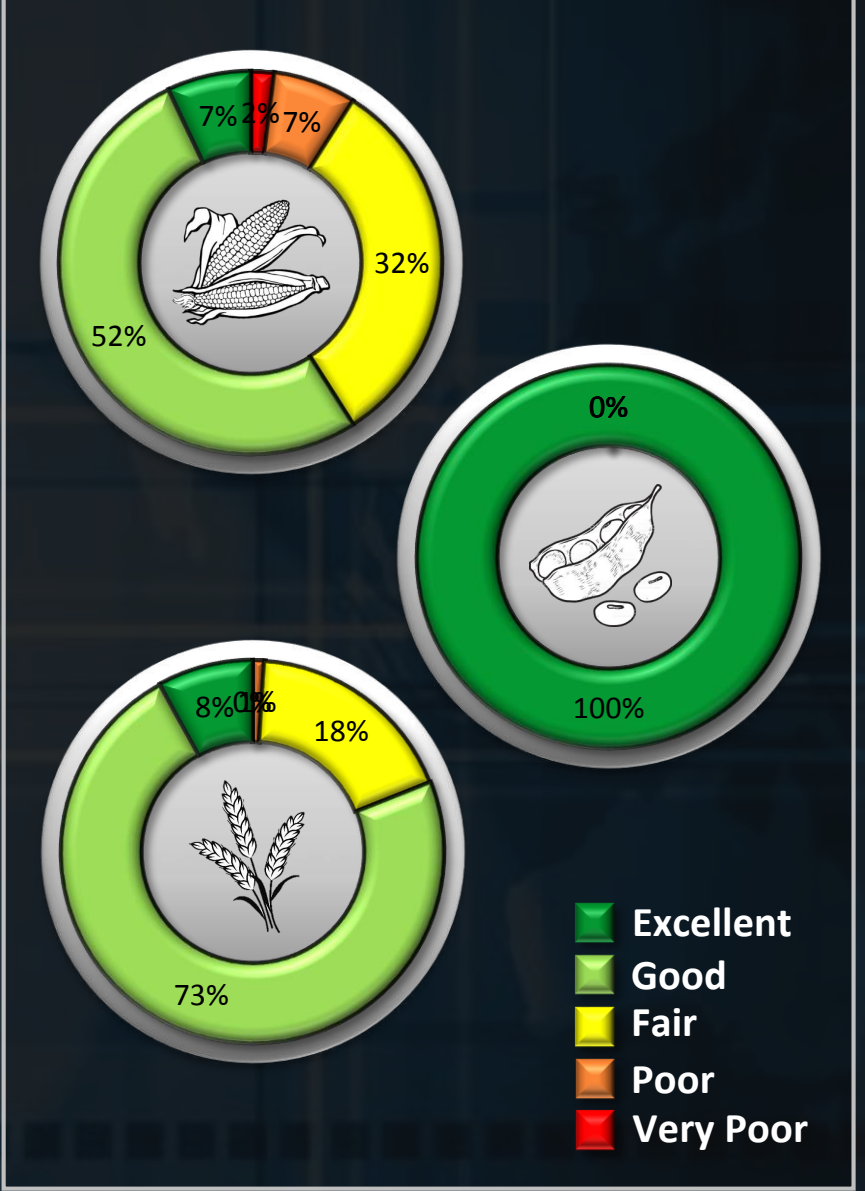
Weekly U.S Crop Report

June 9, 2019

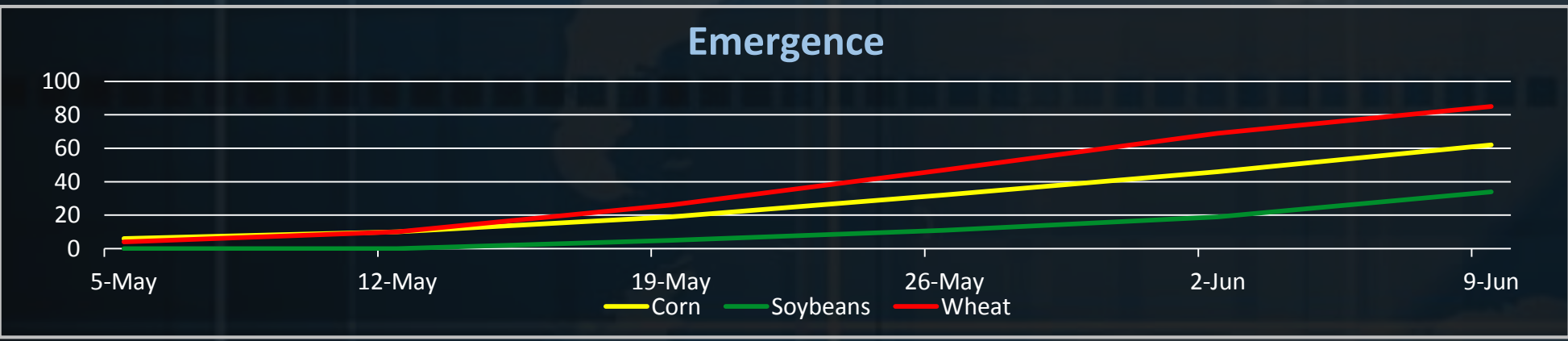
Plant Progress



Conditions



Emergence



Percent Experiencing Drought

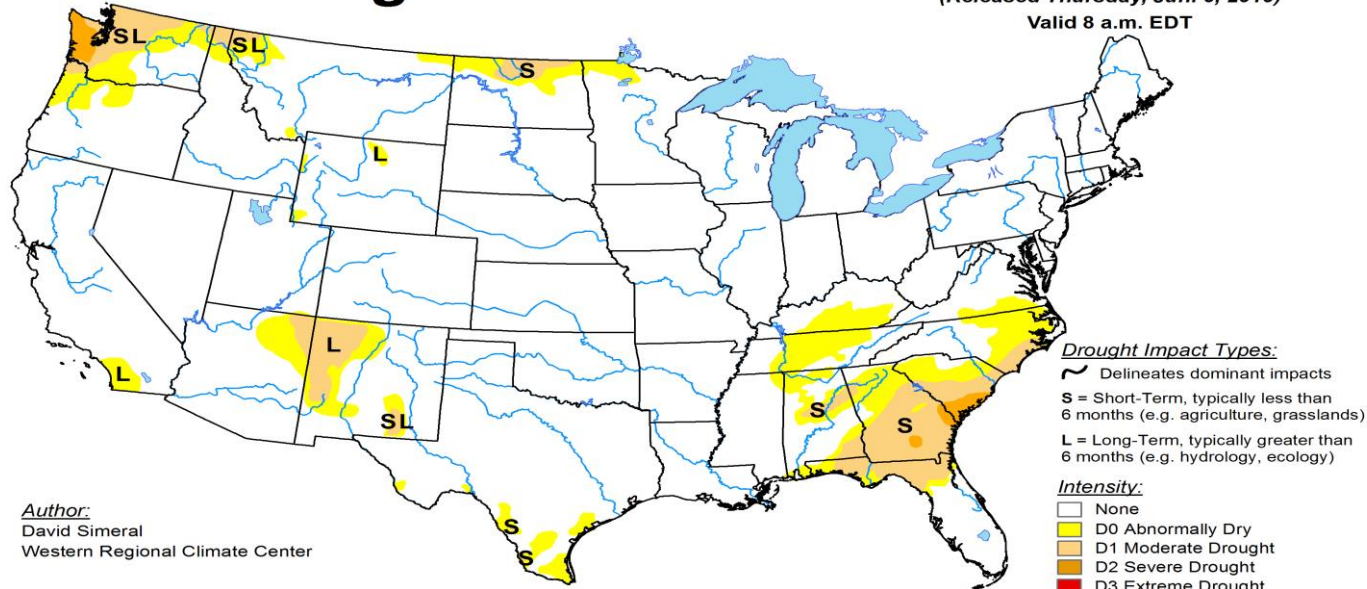
Corn	Soybeans	Wheat
0%	0%	0%

Drought Analysis

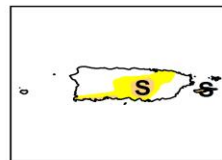
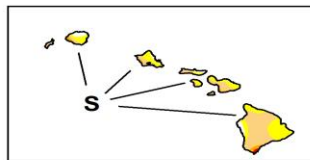
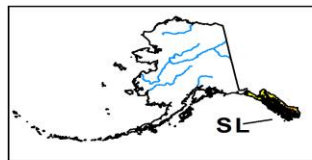
June 4, 2019

U.S. Drought Monitor

June 4, 2019
(Released Thursday, Jun. 6, 2019)
Valid 8 a.m. EDT



Author:
David Simeral
Western Regional Climate Center

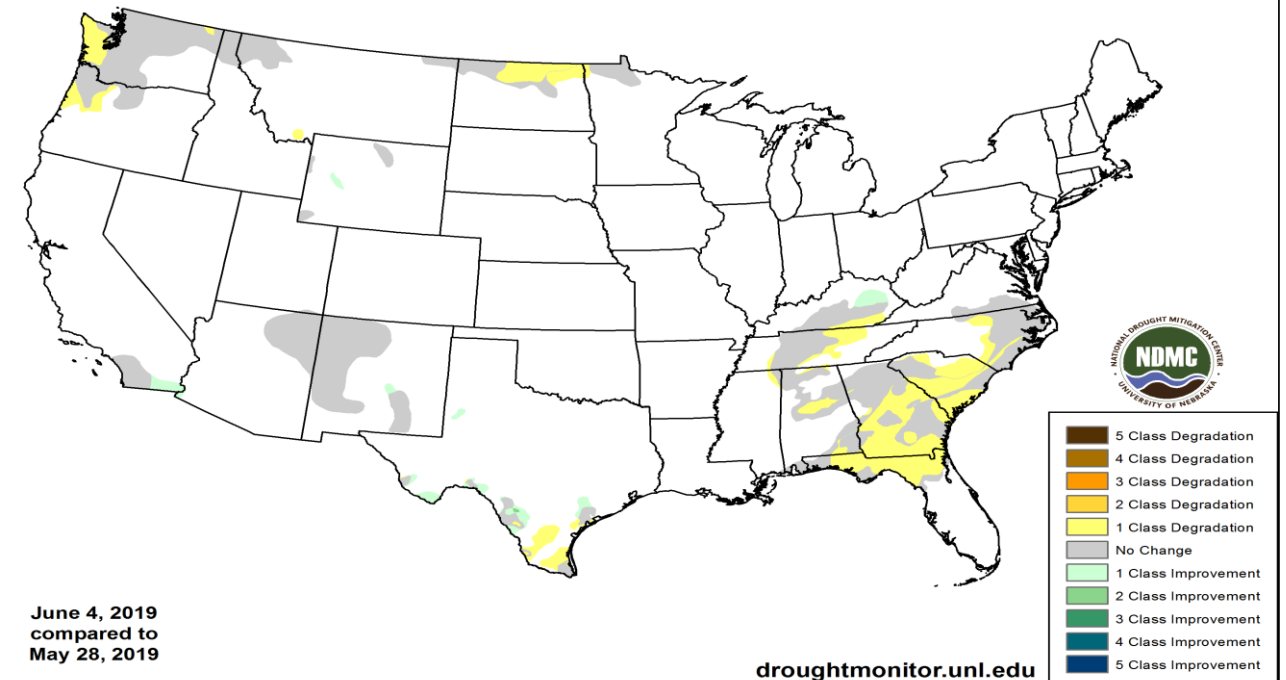


The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

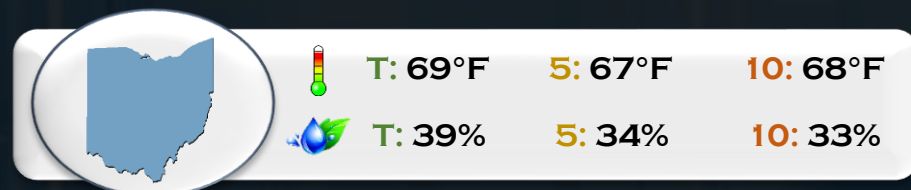
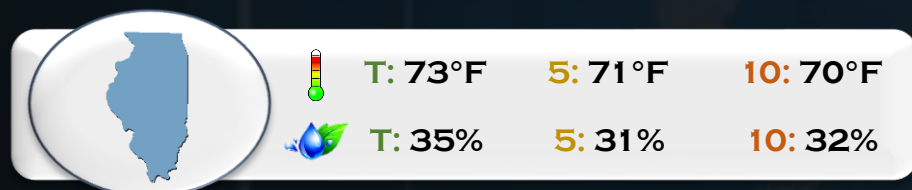
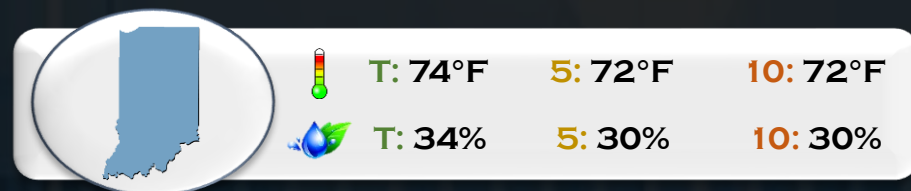
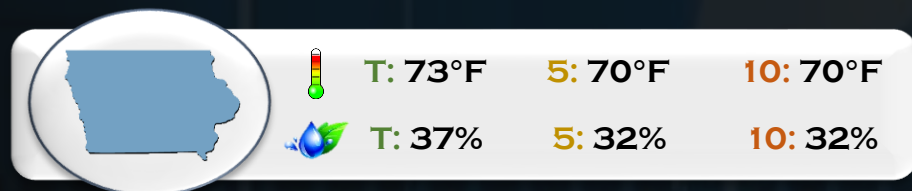


droughtmonitor.unl.edu

U.S. Drought Monitor Class Change - CONUS 1 Week



Soil Temperature and Moisture Analysis



Percent of Ag Experiencing Drought

Corn	Soybeans	S. Wheat
0%	0%	0%

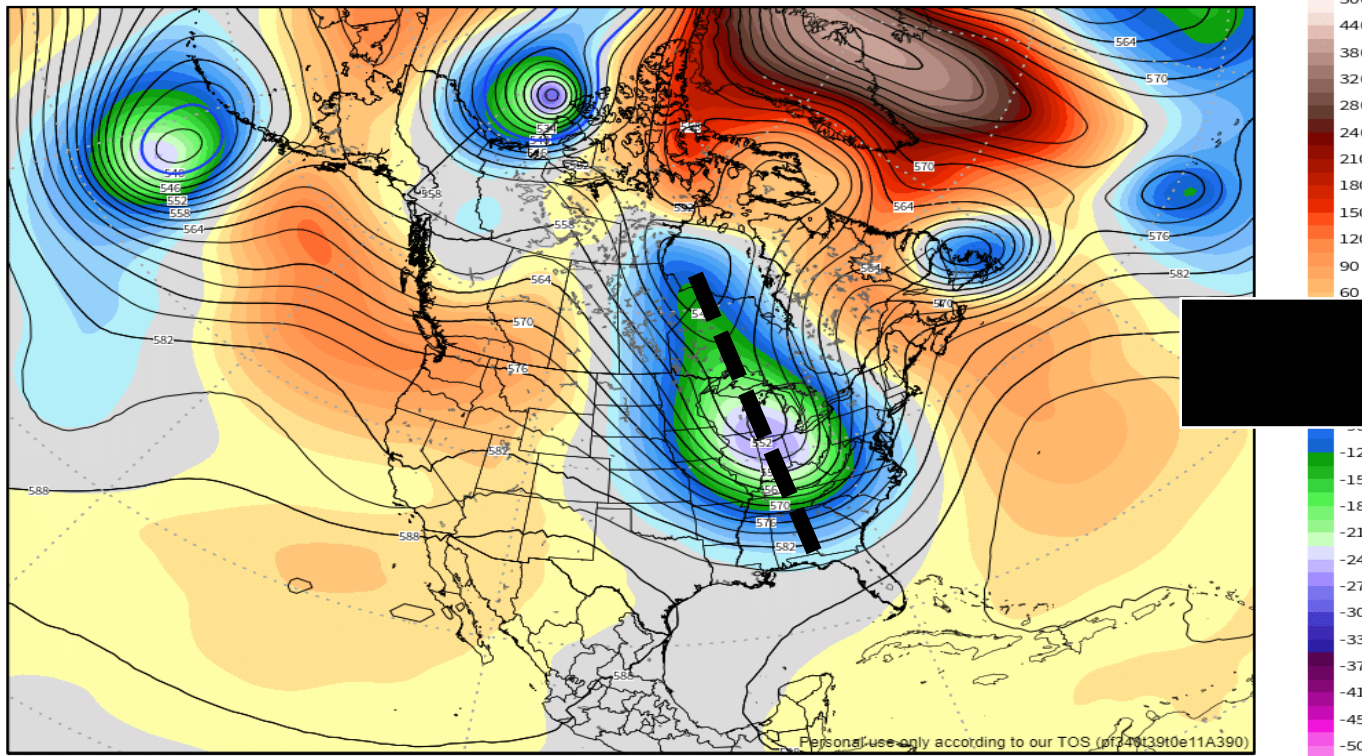
Hay	W. Wheat	Cattle
1%	1%	1%

Pattern Overview

June 10, 2019

NCEP GEFS 500 hPa Geopotential Height [dm] & Anomaly [m] | Ensemble Mean
Init: 18Z10JUN2019 -- [66] hr --> Valid Thu 12Z13JUN2019

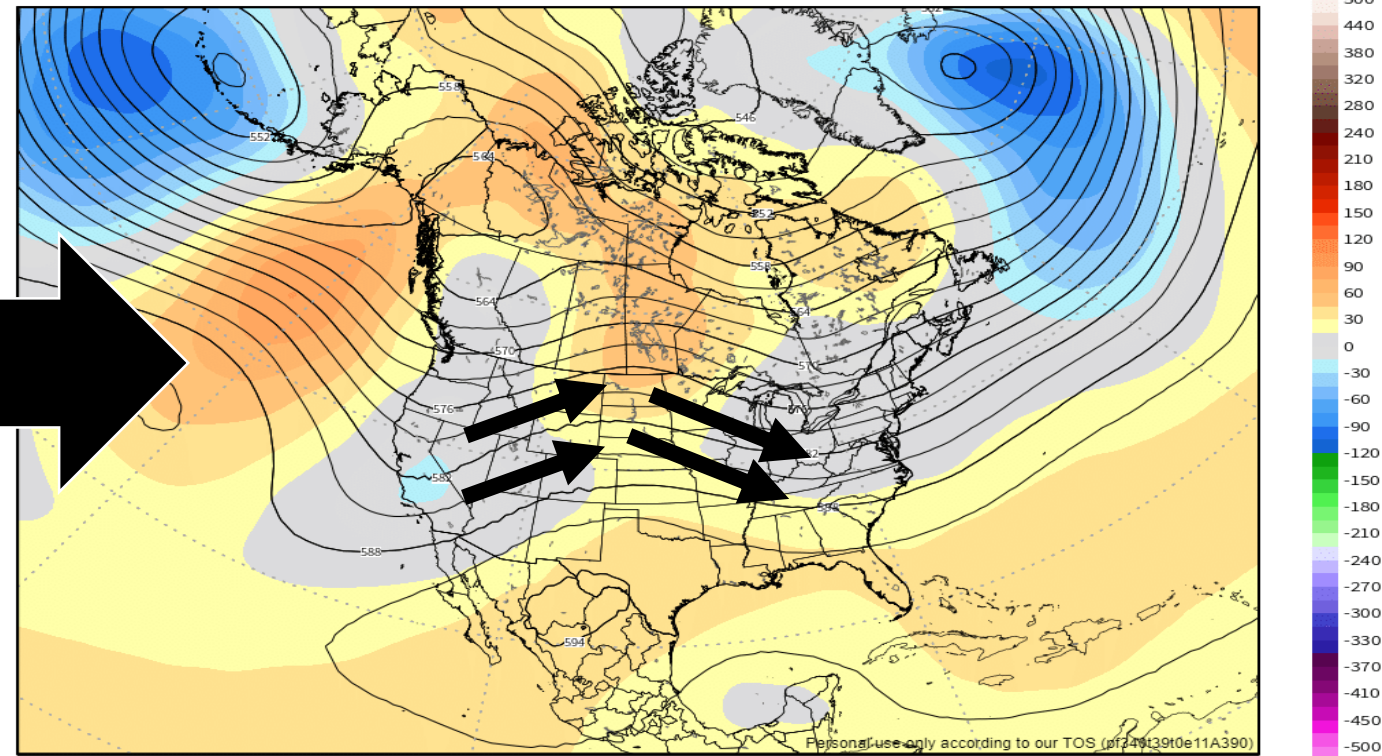
MIN|MAX: -287.3 | 394.7 m



weathermodels.com

NCEP GEFS 500 hPa Geopotential Height [dm] & Anomaly [m] | Ensemble Mean
Init: 18Z10JUN2019 -- [288] hr --> Valid Sat 18Z22JUN2019

MIN|MAX: -108.0 | 149.6 m



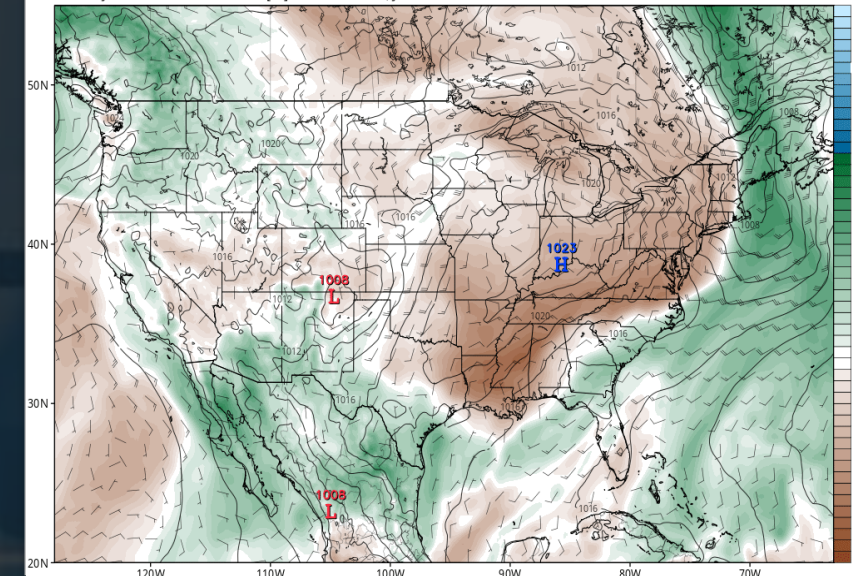
weathermodels.com

Discussion

This week, a deepening upper level trough will swing through the Ag Belt, bringing well-below normal temperatures to the eastern 2/3 of the United States (top left). Additionally, at the surface we see much drier air work in under high pressure, with precipitable water values below normal (bottom right). In week two, the pattern returns to more of a northwest flow, much like we saw during the month of May. This will bring a return of more frequent and heavier precipitation, as well as additional severe weather threats to the central and northern Plains and the Great Lakes/Ohio Valley.

GFS MSLP (mb), Total Precipitable Water Normalized Anomaly, & 850mb Wind (kt)
Init: 18z Jun 10 2019 Forecast Hour: [24] valid at 18z Tue, Jun 11 2019

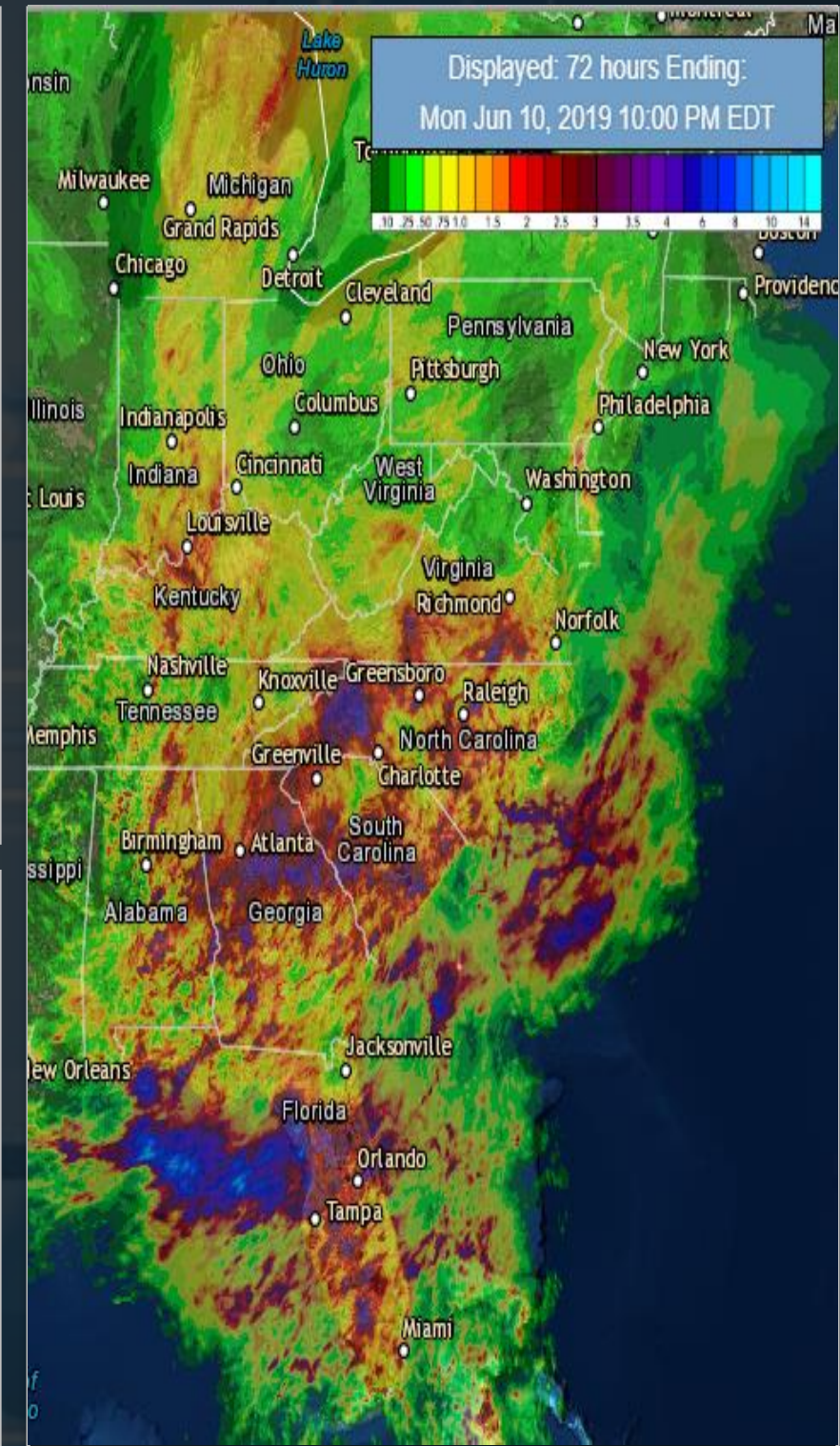
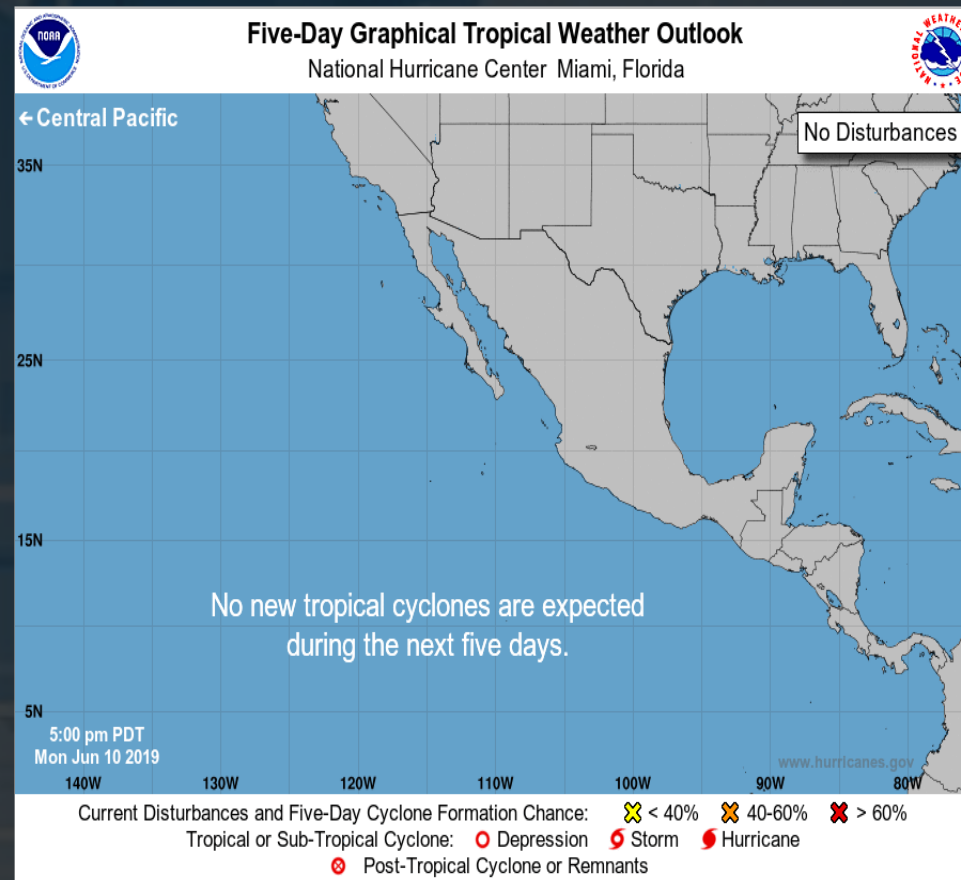
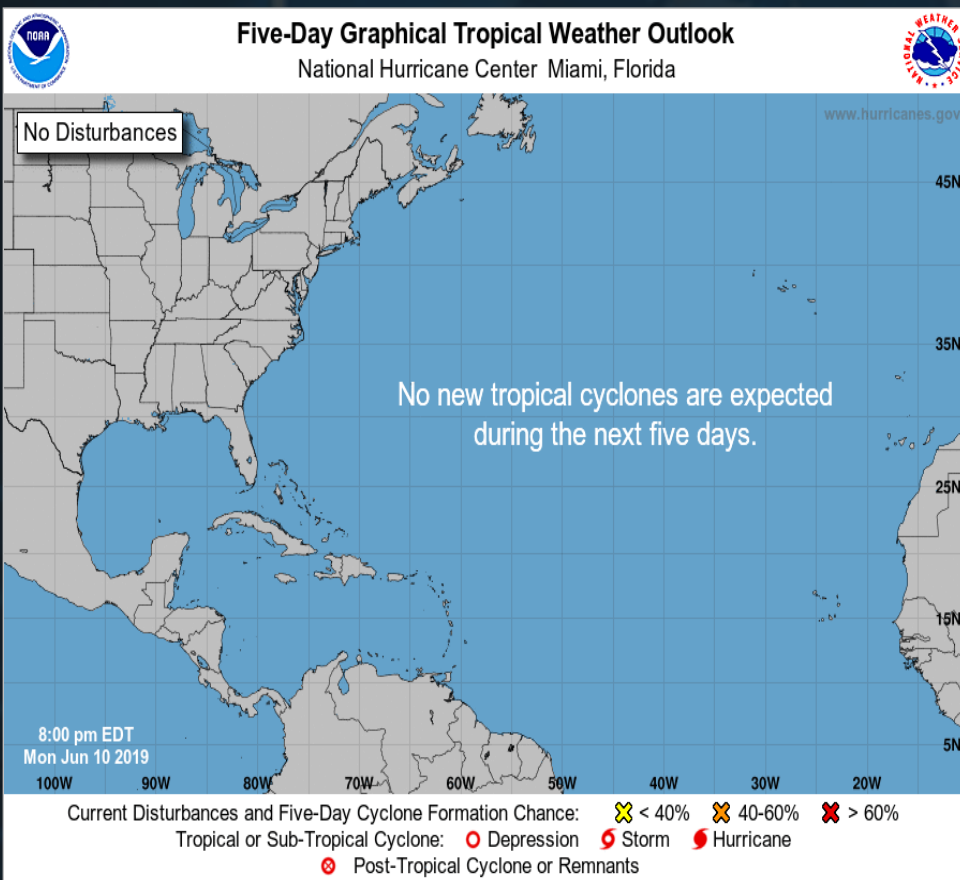
TROPICALTIDBITS.COM



TDSWEATHER.COM

Tropical Impacts

June 10, 2019













Discussion

No new tropical development is expected across the Atlantic Main Development Region or the eastern Pacific in the next 5 days. Model data is not indicative of any new development in the next two weeks (left and center). Remnants of Invest 91L in the Gulf of Mexico this past weekend dropped areas of 6-10" over water. Over land, this tropical moisture was ingested into a surface cyclone and produced widespread 2-4" of rainfall across the southeastern United States. This should aid in reducing some of the drought conditions in that area this week.

Long-Range Outlook

June 10, 2019

Time Period	Forecast Overview (Primary Ag Belt)	Confidence	
		Low	High
Jun 10 – Jun 14	Calmer with well below normal temperatures.		
Jun 15 – Jun 19	Active with below normal temperatures and a return of severe weather chances.		
Jun 20 – Jun 24	Active with moderating temperatures.		
Jun 25 – Jun 29	Active with near to below normal temperatures.		
Jun 30 – Jul 4	Active with near-normal to below normal temperatures and the potential for severe weather.		
Jul 5 – Jul 9	Active with near-normal temperatures and the potential for severe weather.		
Jul 10 – Jul 14	Active with near-normal temperatures.		
Jul 15 – Jul 19	Monitoring a storm system early in the period.		
Jul 20 – Jul 24	Monitoring a storm system with near-normal temps.		
Jul 25 – Jul 29	Calmer with near-normal temperatures.		

Ag Weather Matrix

June 10, 2019

Location	Avg 7-Day High	Avg 7-Day Low	Fcst Avg 7-Day High	Fcst Avg 7-Day Low	Avg 7-Day Precip	Fcst 7-Day Precip
Indianapolis, IN	82	62	76	59	1.06	1.65
Chicago, IL	79	57	73	57	0.81	0.90
Springfield, IL	82	61	76	59	0.80	1.30
Cleveland, OH	78	59	74	59	0.86	2.05
Columbus, OH	81	61	75	58	0.91	2.90
Cincinnati, OH	82	62	76	58	0.96	2.50
Madison, WI	77	56	71	53	0.77	1.15
Detroit, MI	79	59	74	57	0.88	1.80

TEMPERATURE KEY

 MBN  BN  AN  MAN

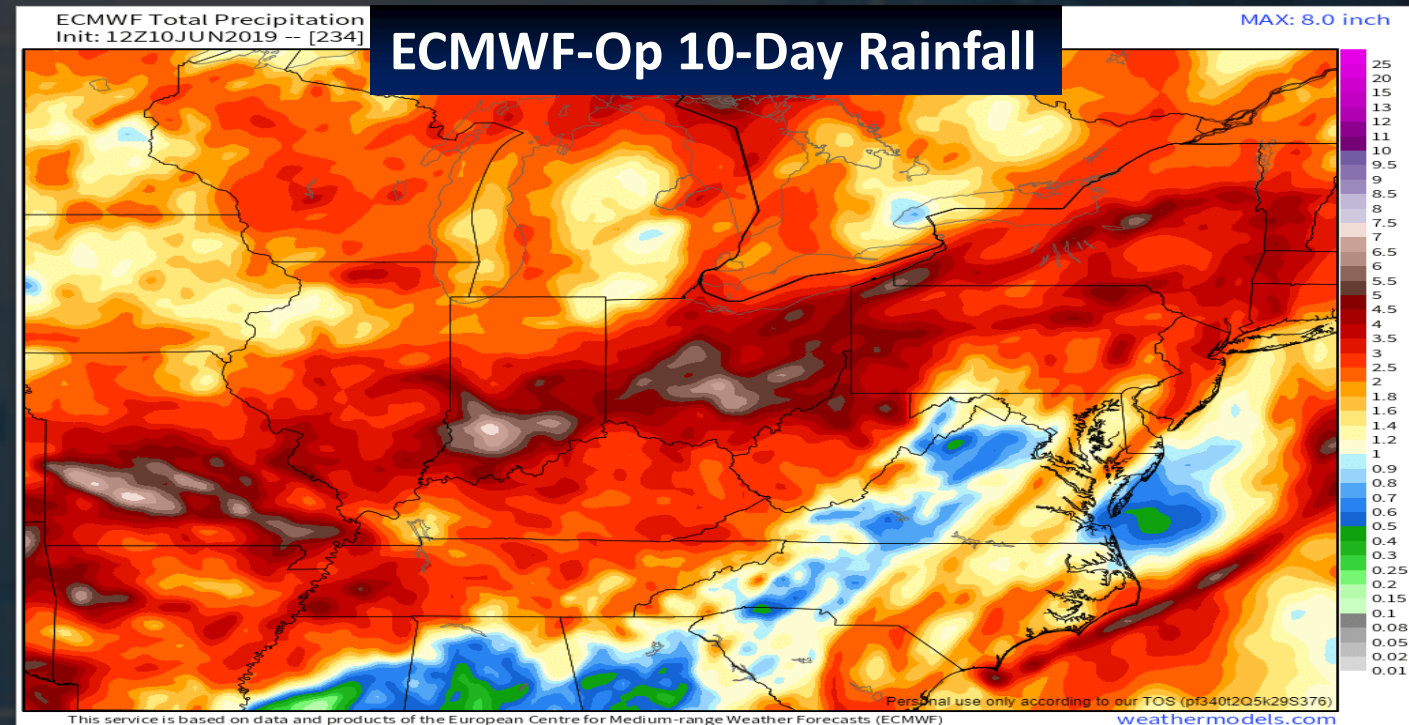
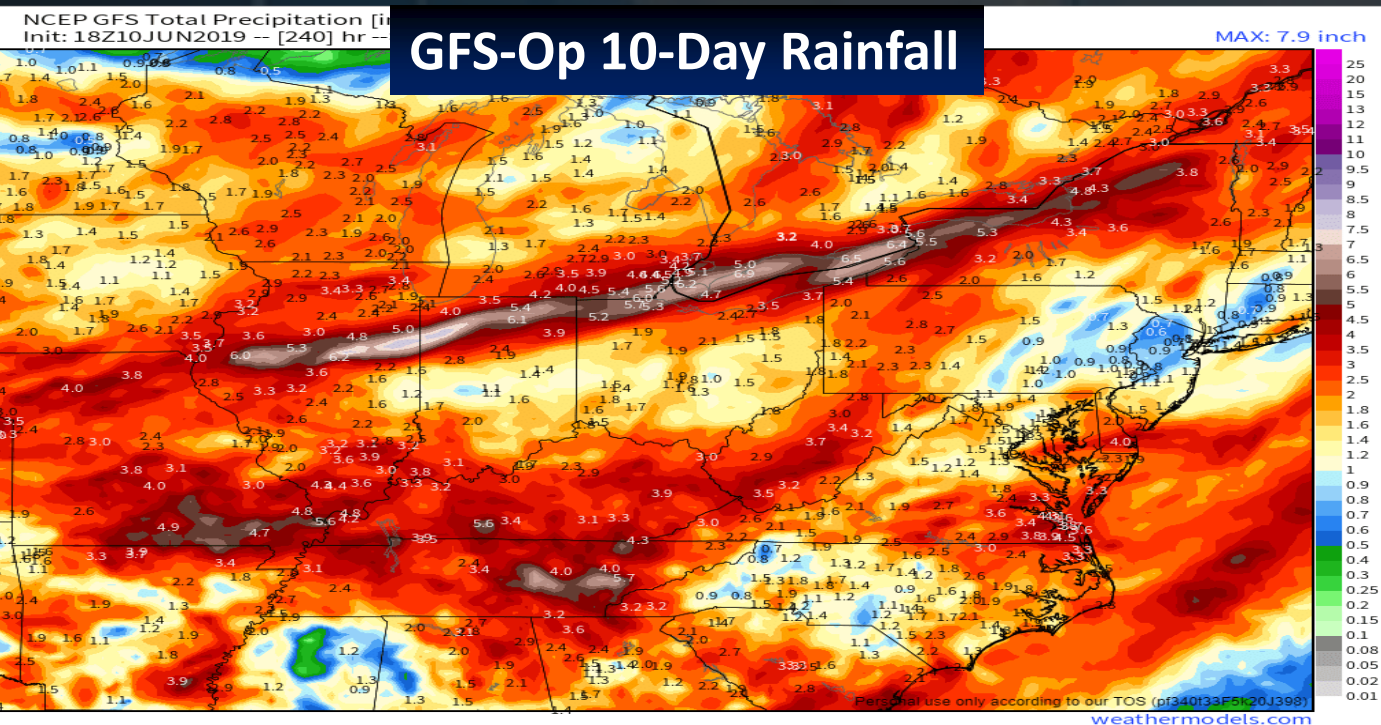
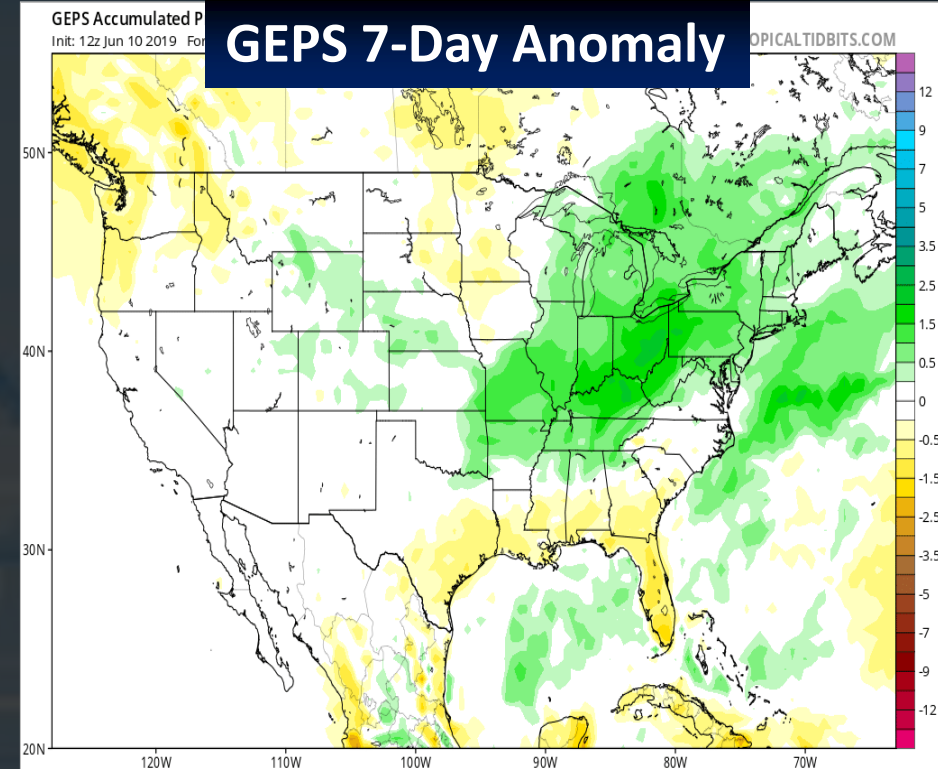
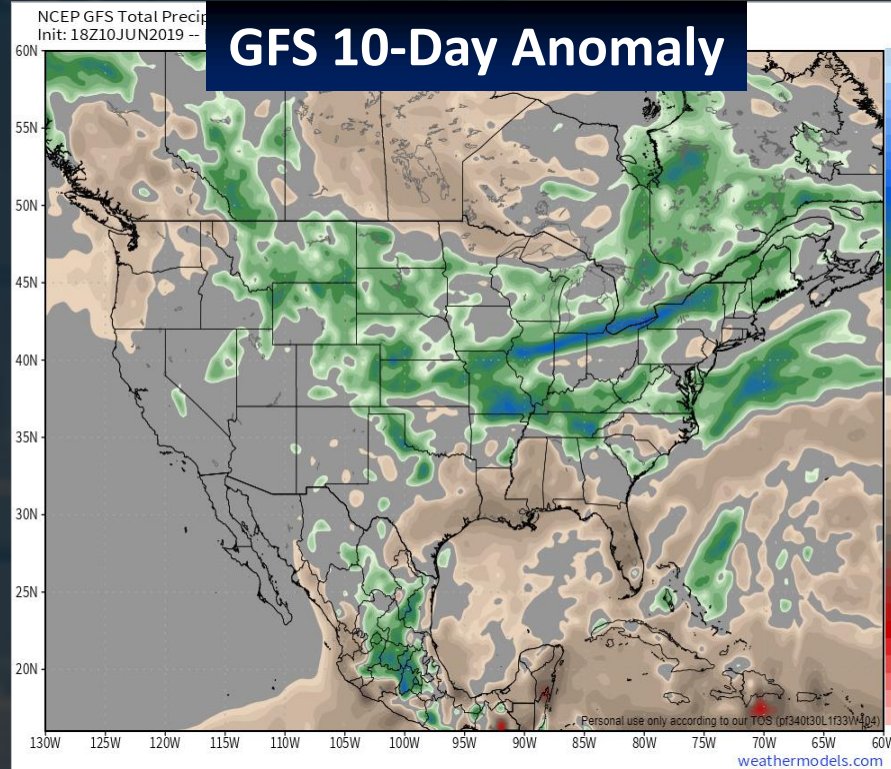
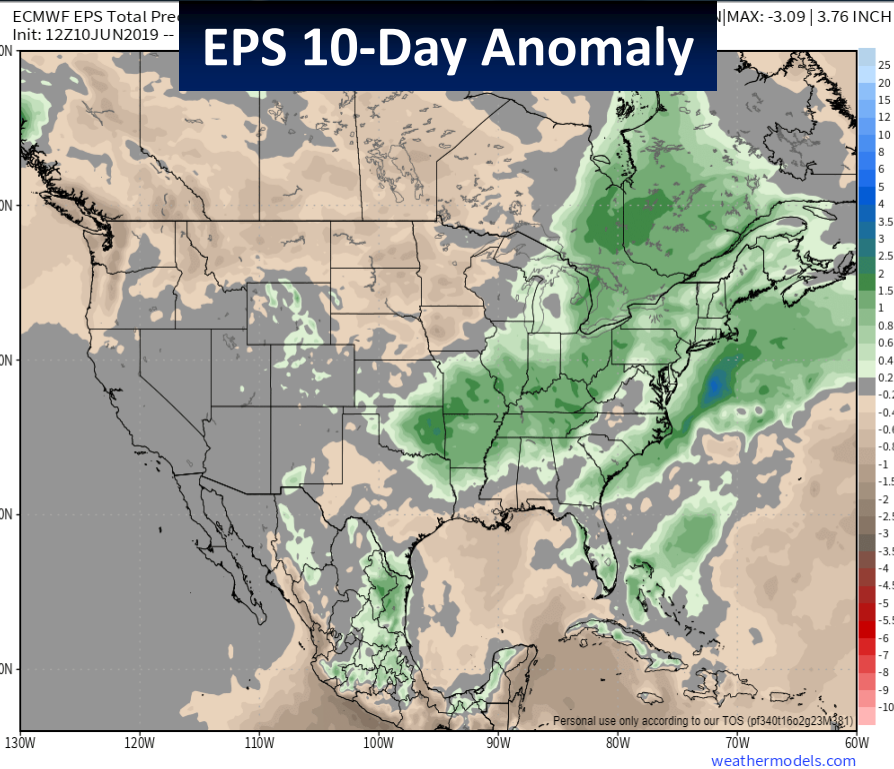
PRECIPITATION KEY

 MBN  BN  AN  MAN

ABBREVIATIONS: MBN (MUCH BELOW NORMAL); BN (BELOW NORMAL); AN (ABOVE NORMAL); MAN (MUCH ABOVE NORMAL)

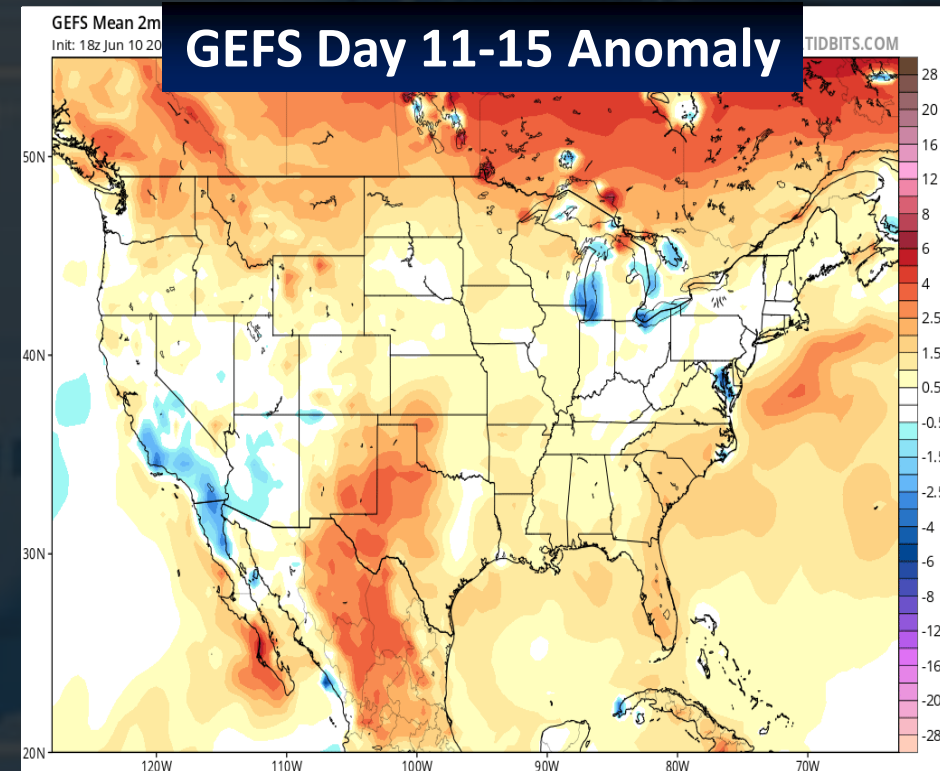
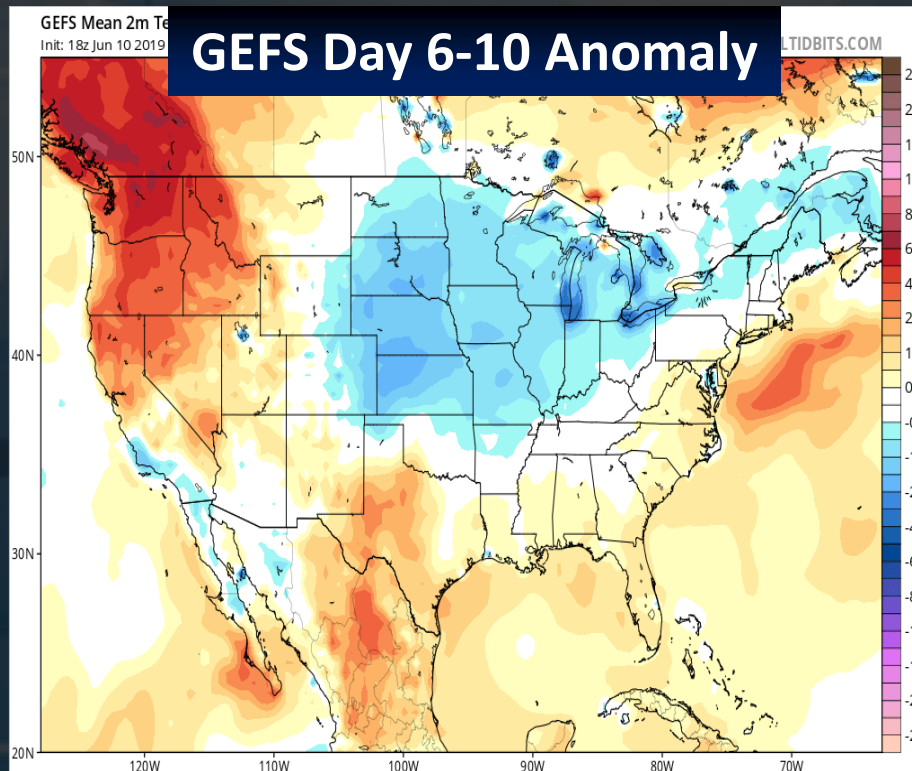
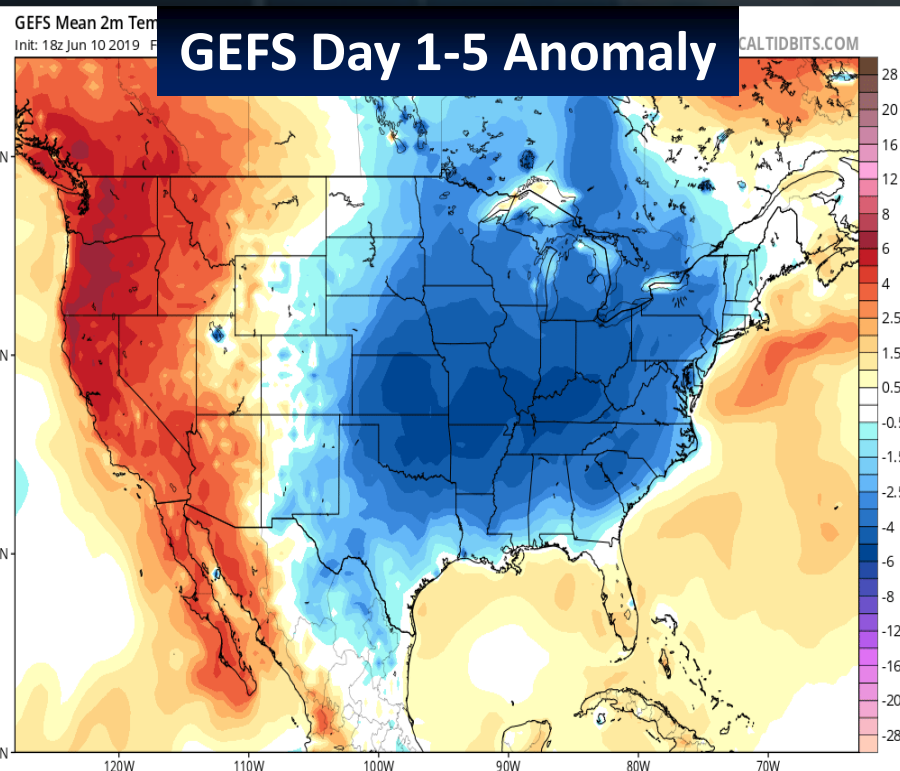
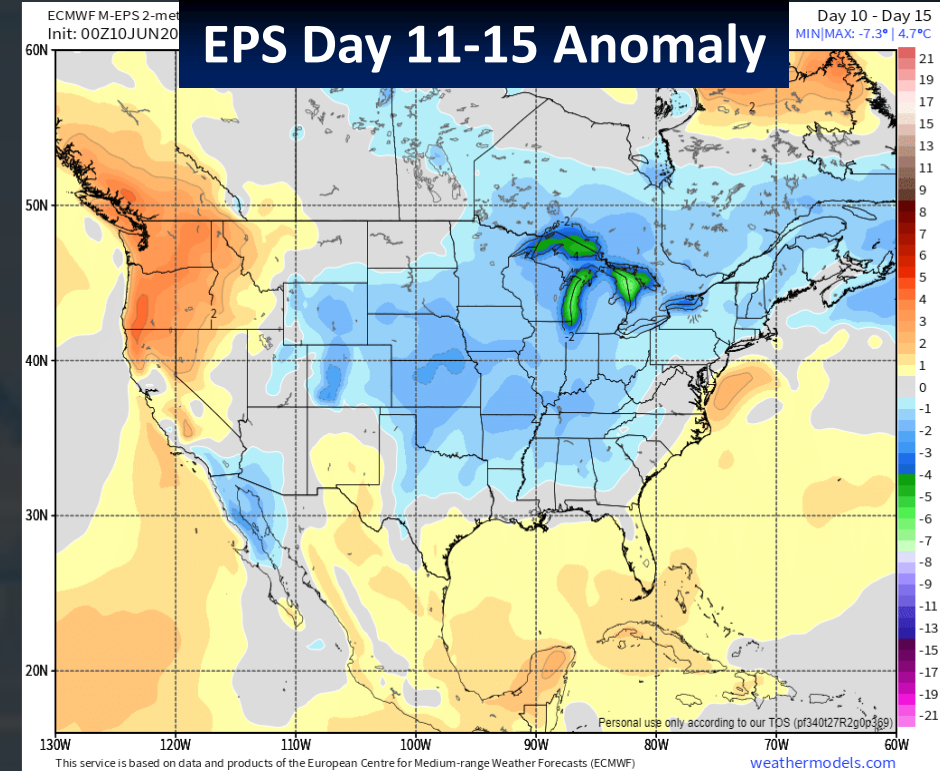
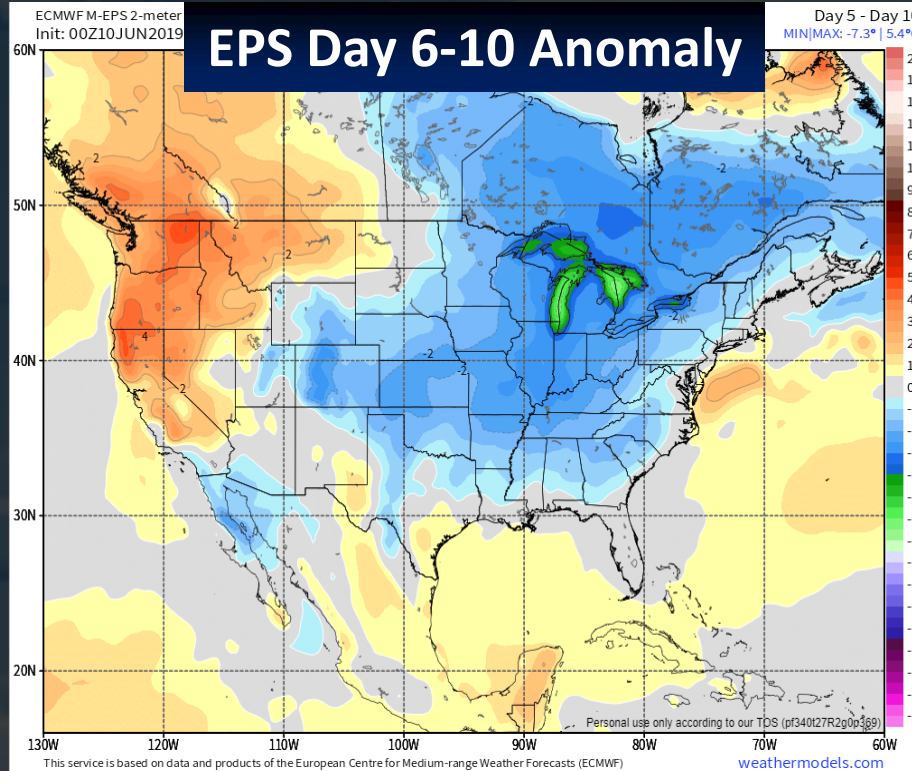
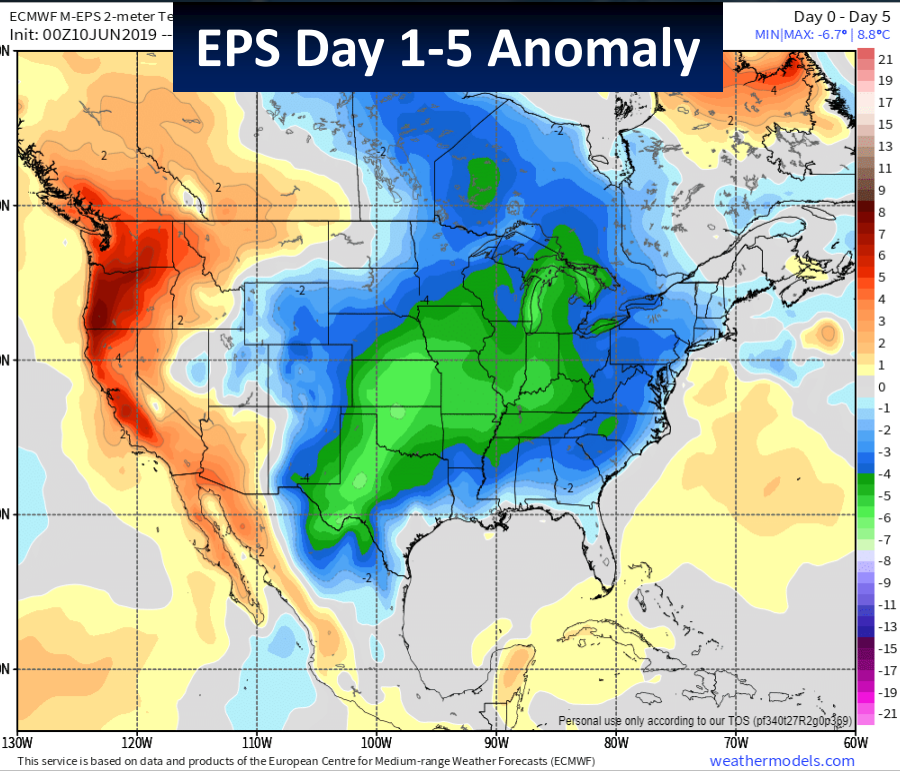
Precipitation Analysis

June 10, 2019



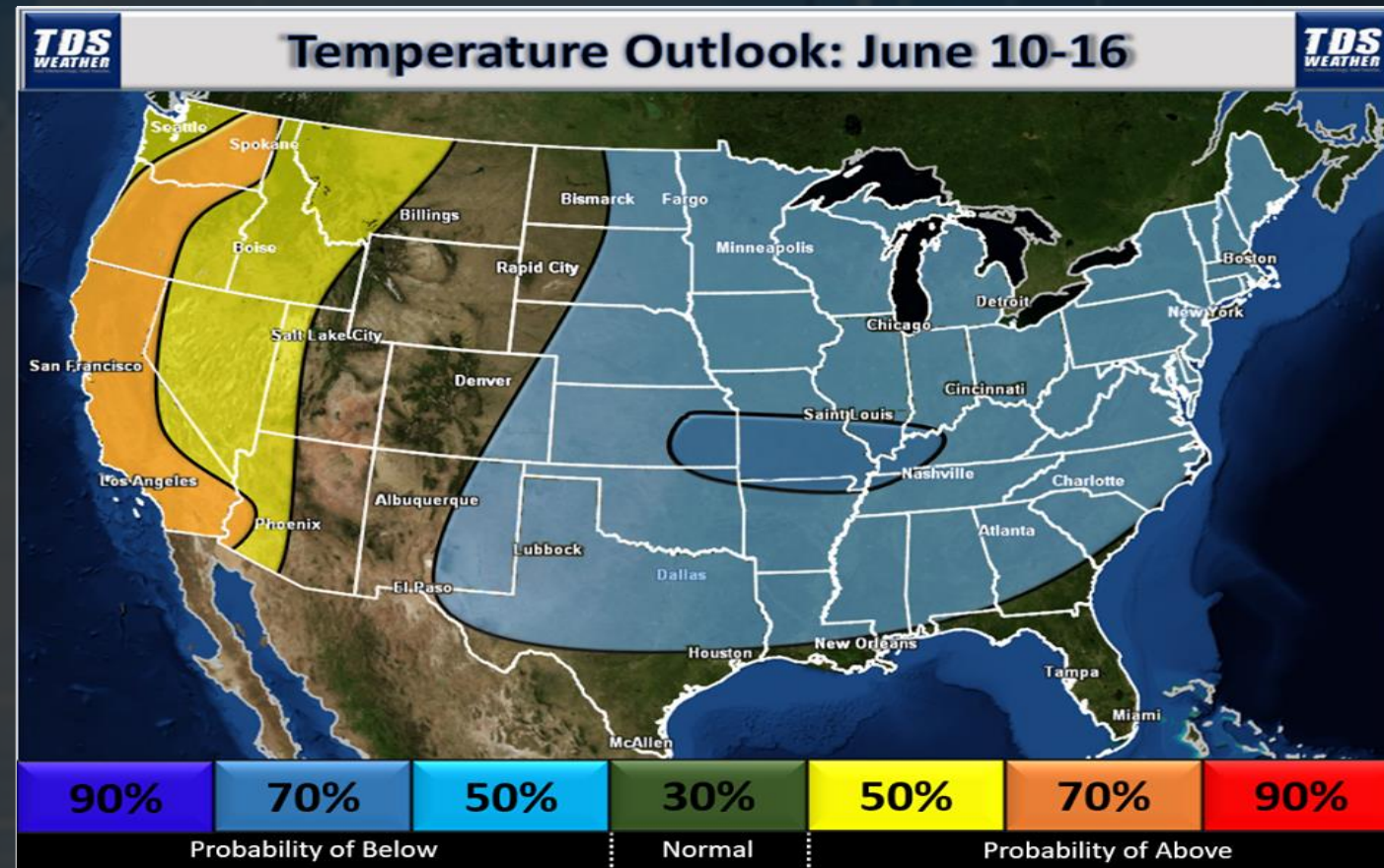
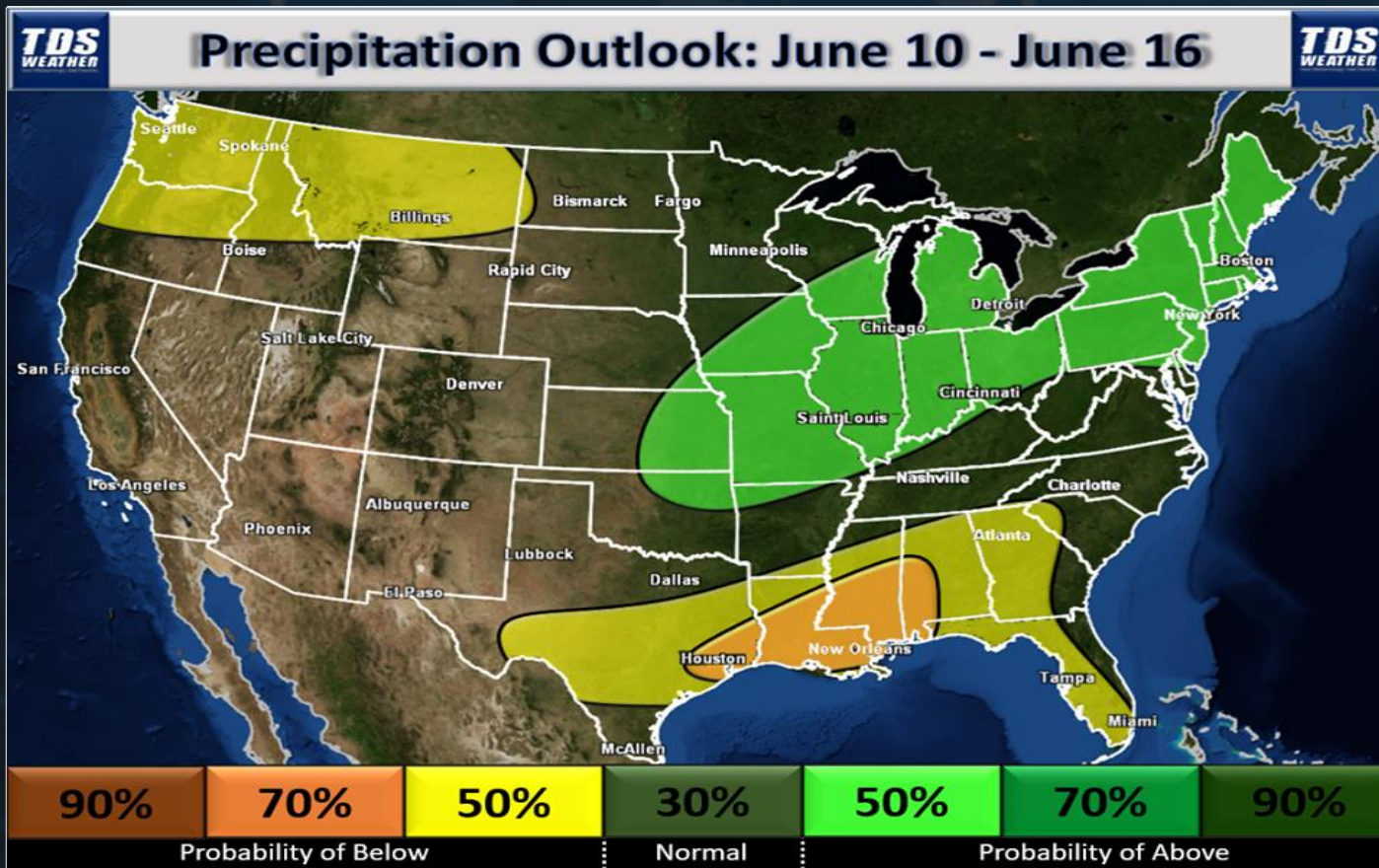
Temperature Analysis

June 10, 2019



Day 1-7 Outlook

June 10, 2019



Discussion

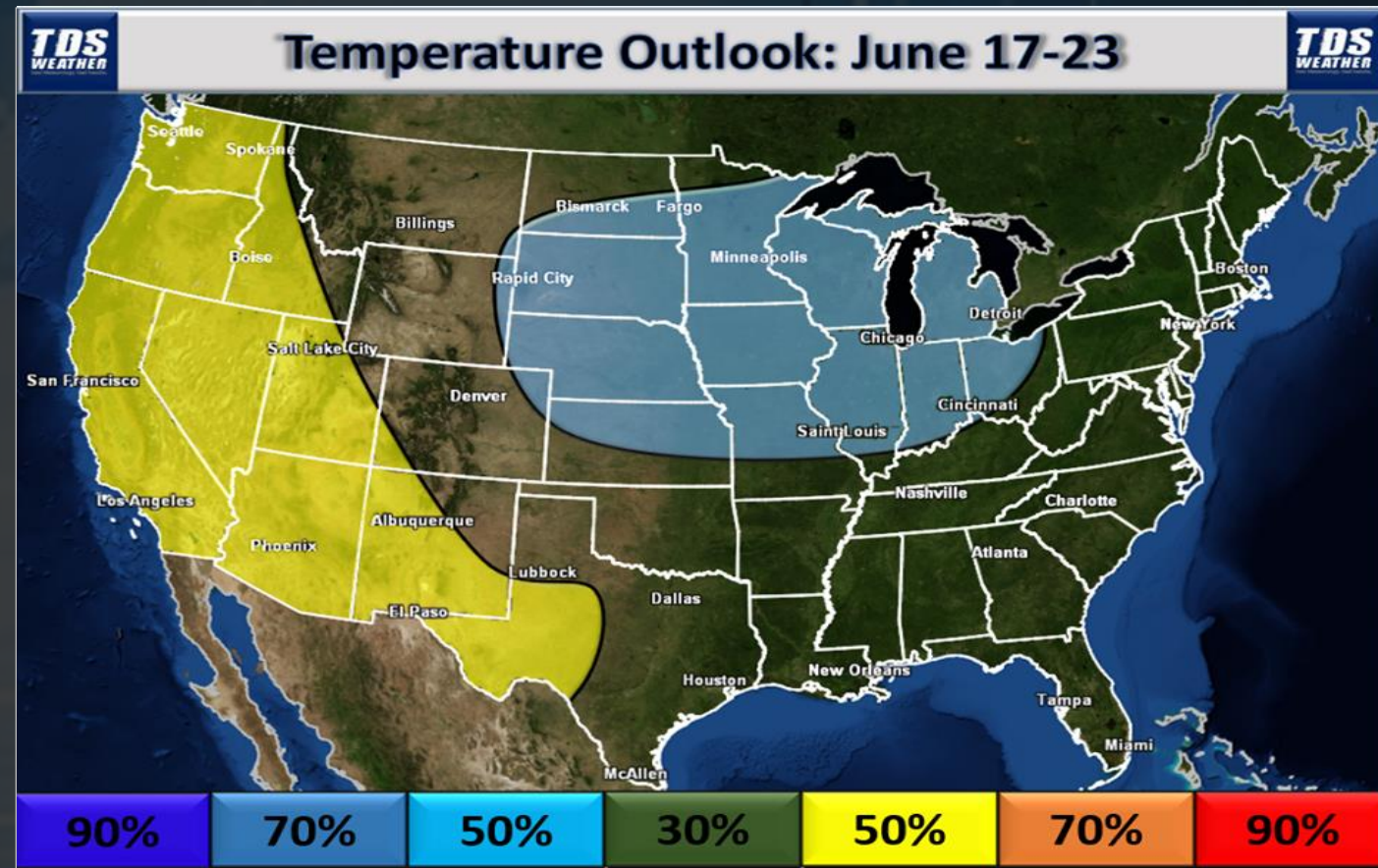
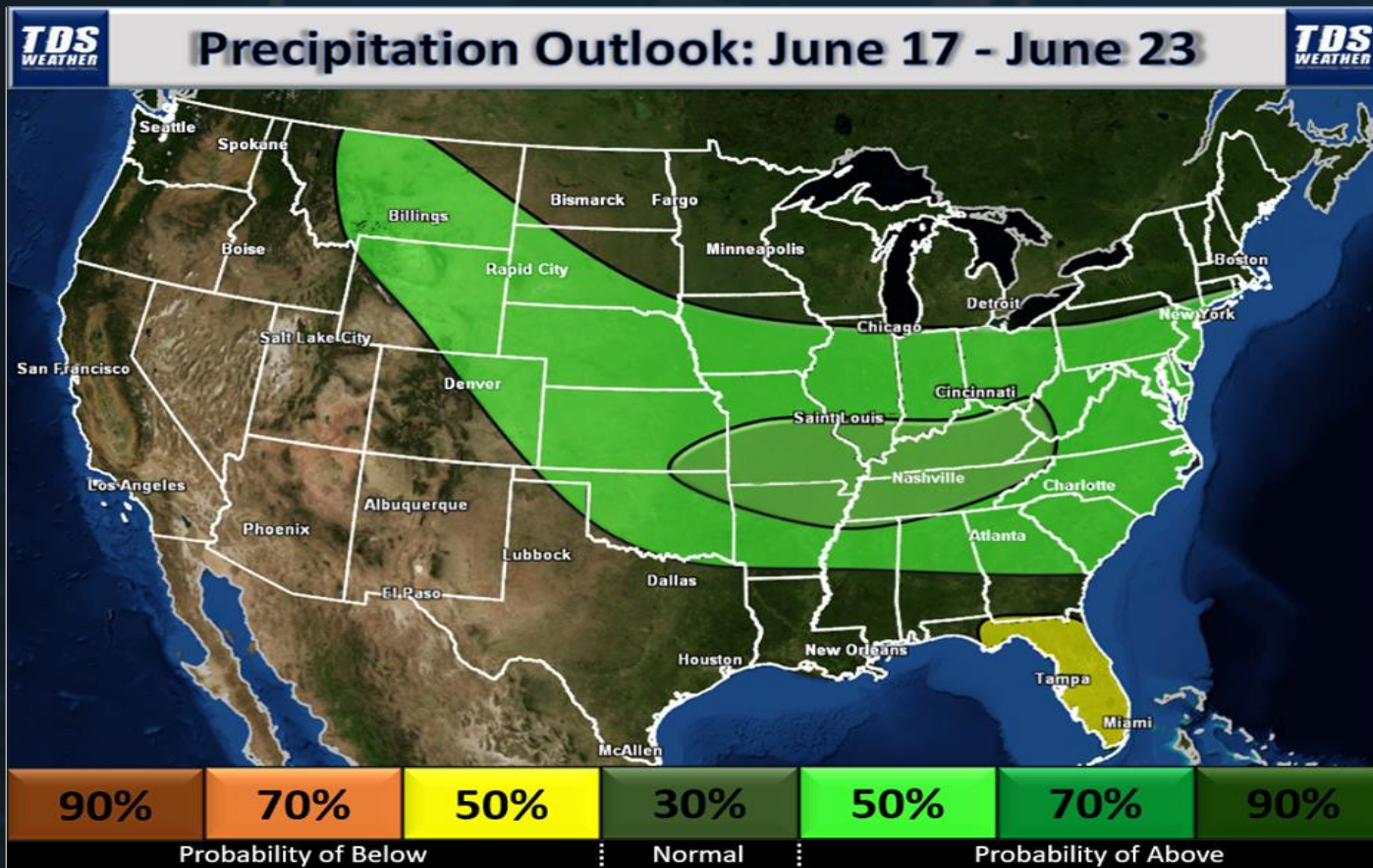
The majority of the Ag Belt will still see above normal precipitation this week, though the pattern will be less active than the past three weeks have been. Dry conditions are expected across Dixie Alley. Below normal temperatures are expected across the eastern 2/3 of the United States as a trough digs in. Above normal temperatures are expected in the western United States with significant upper level ridging. Confidence is relatively high for this outlook.

Confidence



Day 8-14 Outlook

June 10, 2019



Discussion

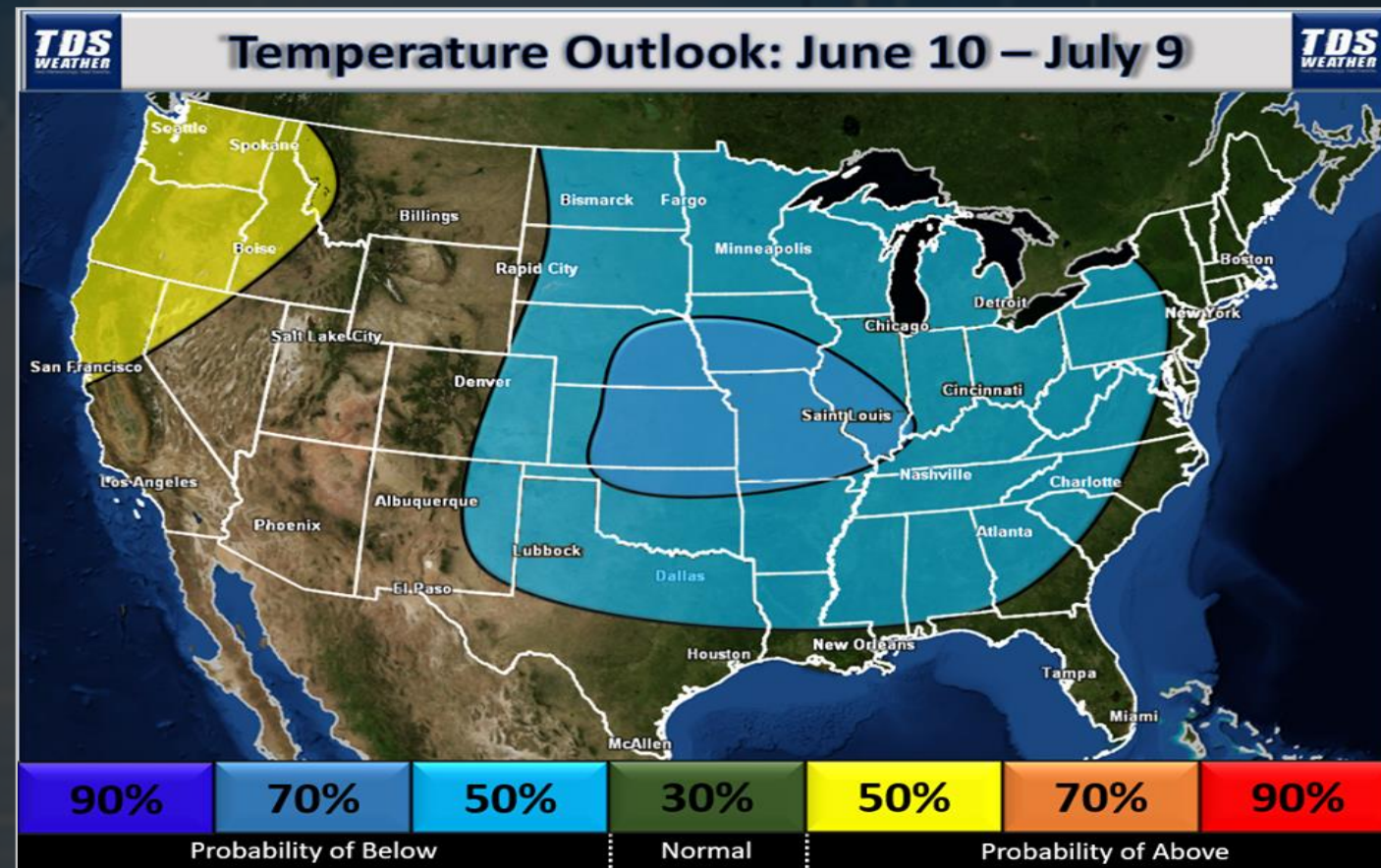
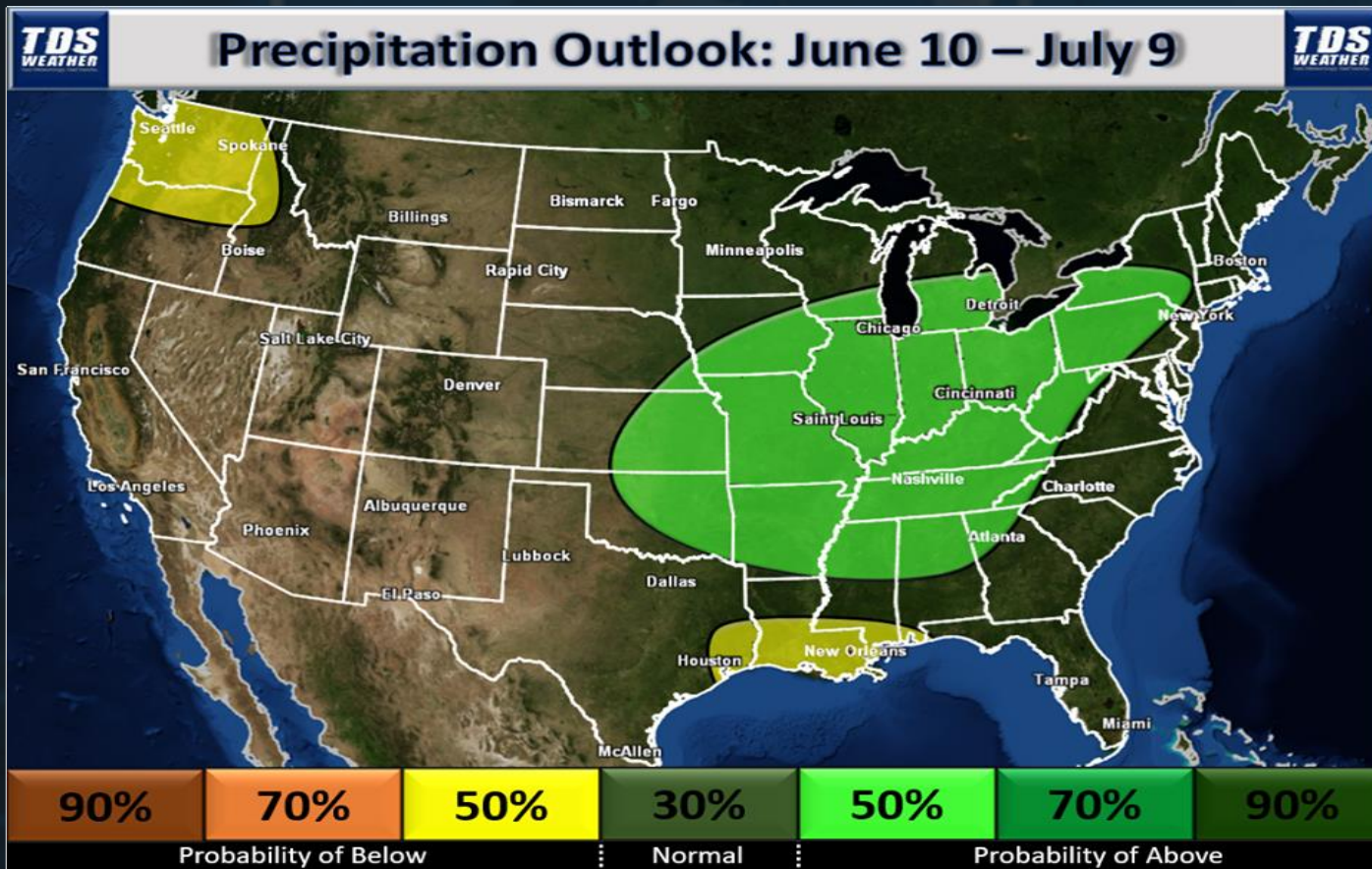
The majority of the Ag Belt will still see above normal precipitation in week two, with a more active pattern returning. The northwest flow should allow for the development of multiple MCS-type systems to dive southeast through the Great Lakes and Ohio Valley regions during this period. Below normal temperatures are forecast to continue through week two, but temperatures will be moderating some. Warmer than normal temperatures are expected to persist across the western United States. Confidence is medium in this outlook. Higher confidence lies with the precipitation outlook than the temperature outlook.

Confidence



30-Day Outlook

June 10, 2019



Discussion

Through the next 30 days, the pattern over the Ag Belt will remain cool and wet as a general consensus. Confidence is moderate in the wet pattern persisting into mid-July and possible past that as well. The area of above normal precipitation may shift slightly eastward through the summer, with a bit drier pattern over the Plains. Temperature-wise, confidence is lower. While we do anticipate below normal temperatures through week 1 and 2, lesser confidence lies with weeks 3 and 4. Warmer risks may develop in that time period, but quite a lot of uncertainty remains. Overall confidence in the 30-day outlook is moderate.

Confidence

