

# **SUNDAY NIGHT – MONDAY**

## **US GRAIN WEATHER 4/9-10/17**

### **OVERVIEW**

late last week - Thursday and Friday - the model data showed that THIS week over central Plains AND Midwest would be DRY or mostly dry from Saturday 4/8 - 4/14 ... but with Moderate rains over SD MN WI and over central and northeast TX and eastern OK ARK. The NEW Sunday data on all models bring the rains in SIGNIFICANTLY sooner... reaching the Plains and WCB after Wednesday. The ECB and Delta will probably stay dry for an extra day or two but even there ...looks like the rains to return in significant force with high percentage coverage in the 6 to 10 day and in the 11 to 15 day .

The overall driving mechanism has not changed. A major trough in the eastern Pacific Ocean is going to move into California and the Southwestern states over the next 7 days. Energy coming out as deep trough is going to track in a ENE direction across the central plains... WCB... into the northern portions of the Midwest and the Great Lakes region. There will still be a RIDGE centered over the Deep South which will keep the rains out of the Delta and Texas but for the central plains ....the Midwest ...the next two weeks looks fairly wet especially once move get past Wednesday April 12.

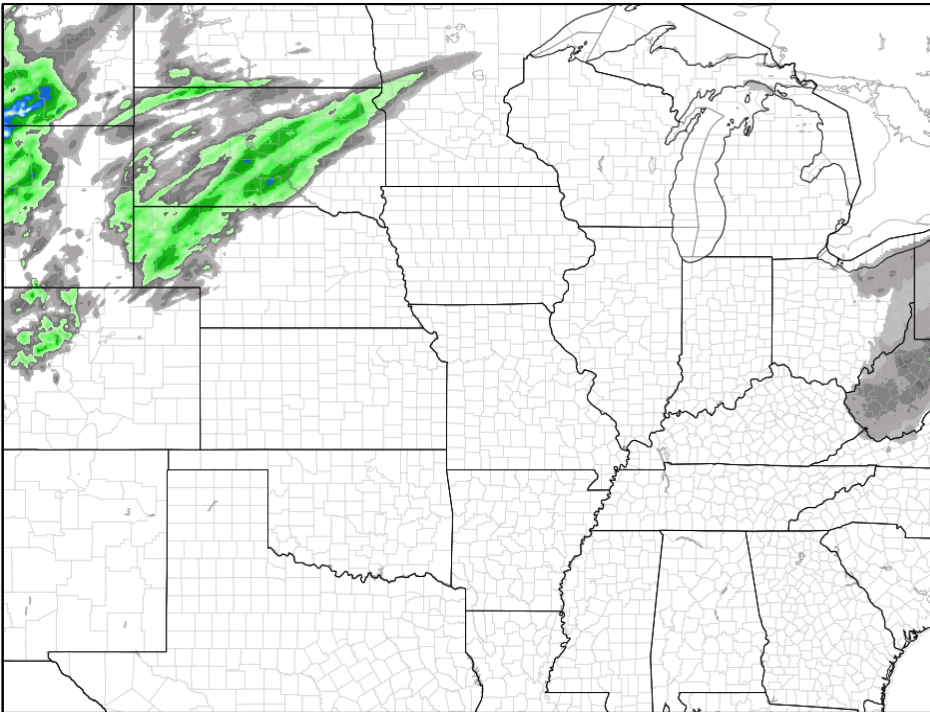
This is in strong agreement with our Spring 2017 forecast. The data on April 5 indicated that the QBO values for March 2017 were still at a record strong levels of +14.5. This is the strongest March positive QBO value on record since 1945.

This continues the string of extremely strong and record setting positive QBO values which has been in existence since November of last year. The reason why this is important is that if you look at all the months of April and May which featured strong positive QBO values .. the data shows large areas of above normal rainfall and below normal temperatures over much of the Plains and the Midwest regions.

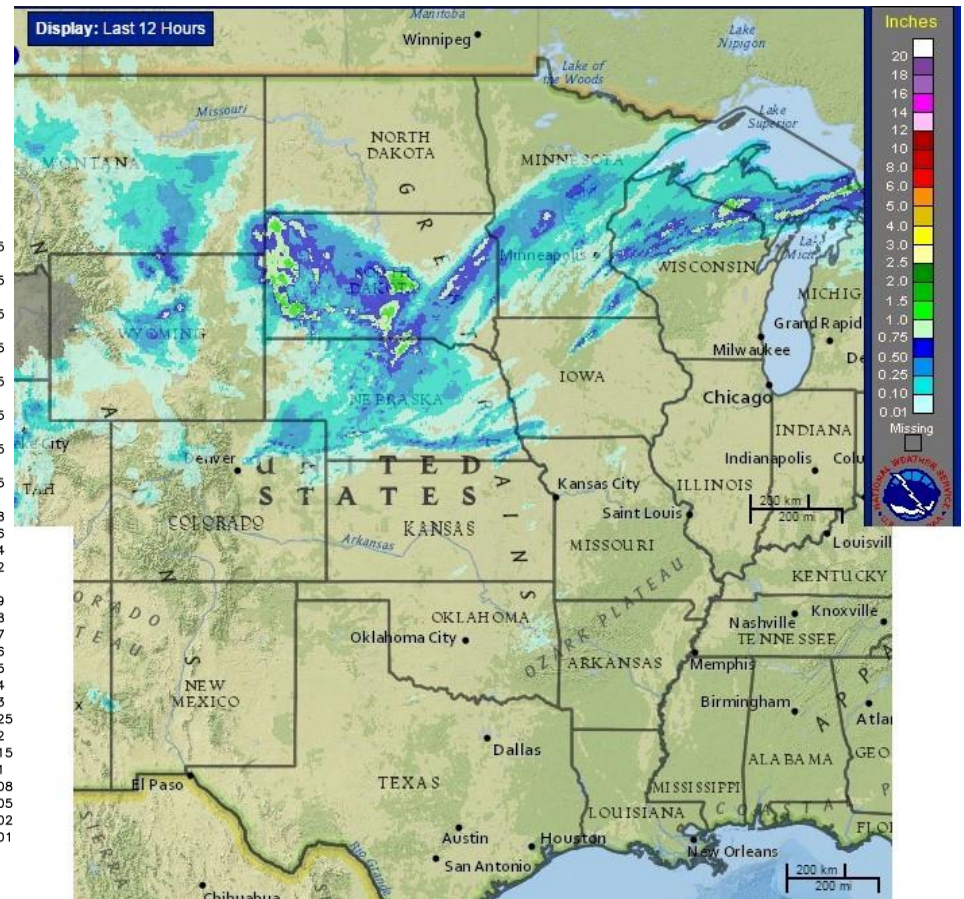
## RAINFALL OVER THE LAST 2 DAYS - 0700 CDT FRI 7 APRIL - 0700 CDT 9 APRIL

NO rain of any kind over the past 2 days... except for 0.25-0.75"/6-20mm 50% coverage over SD.

NWS Precipitation Analysis 4-km HRAP Grid -- 2-day Total Accumulation  
Total Precipitation [inches] between 12Z07APR2017 -- 12Z09APR2017



4 km HRAP grid | End of hydrological day at 1200 UTC | <http://water.weather.gov/precip>

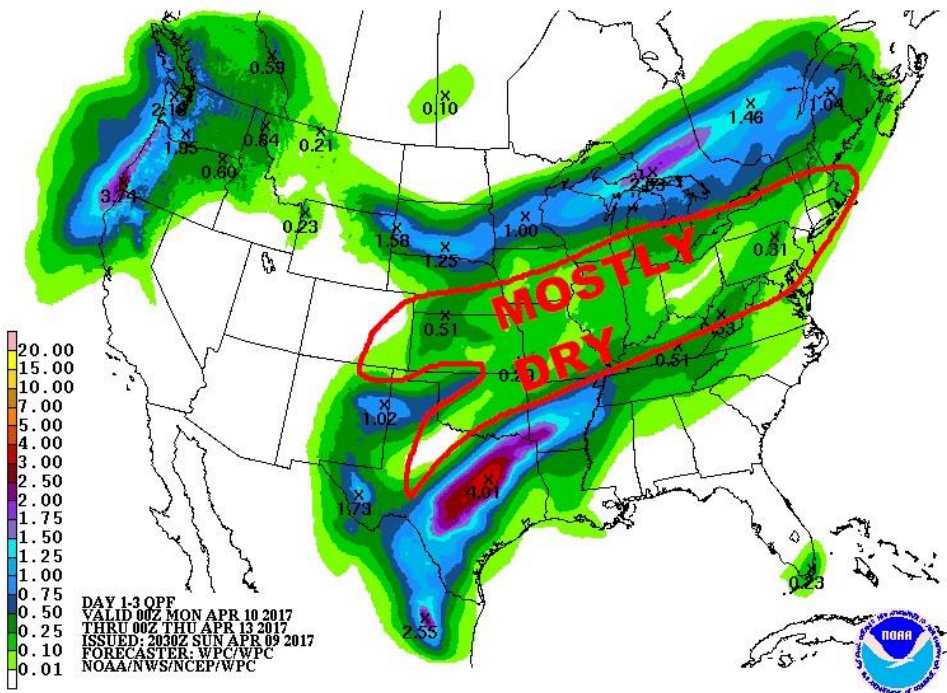




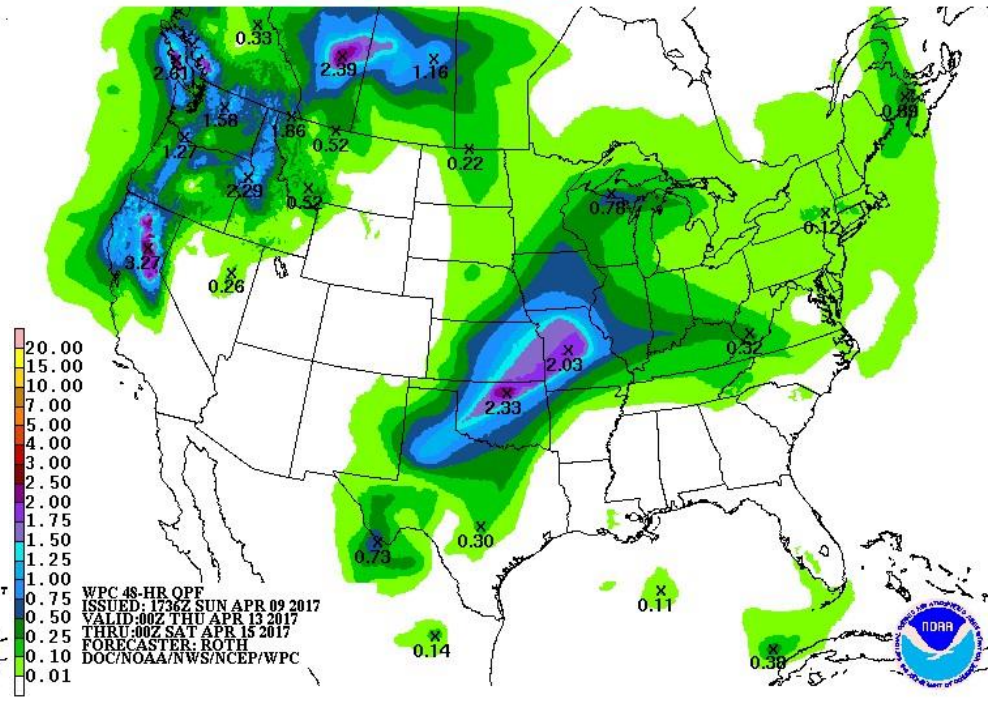
# NEXT 5 DAYS

These maps are HPC NWS "OFFICIAL" rainfall forecast amps and as such as a useful guide to what the "consensus forecast" is. Over the next 3 days most of the central Plains into the Midwest seem to be dry or mostly dry. Note the band of Moderate rains over SD into southern MN and northern WI. To the south central and northeast TX into southwest third of ARK 0.50-3.0"/12-75mm. But by DAY 4-5 significant rains 0.50-2.5"/ 12-60mm over 60% Tx Panhandle/ western northern OK 70% eastern OK / MO/ southern ILL/ sw IND.

## NEXT 3 DAYS



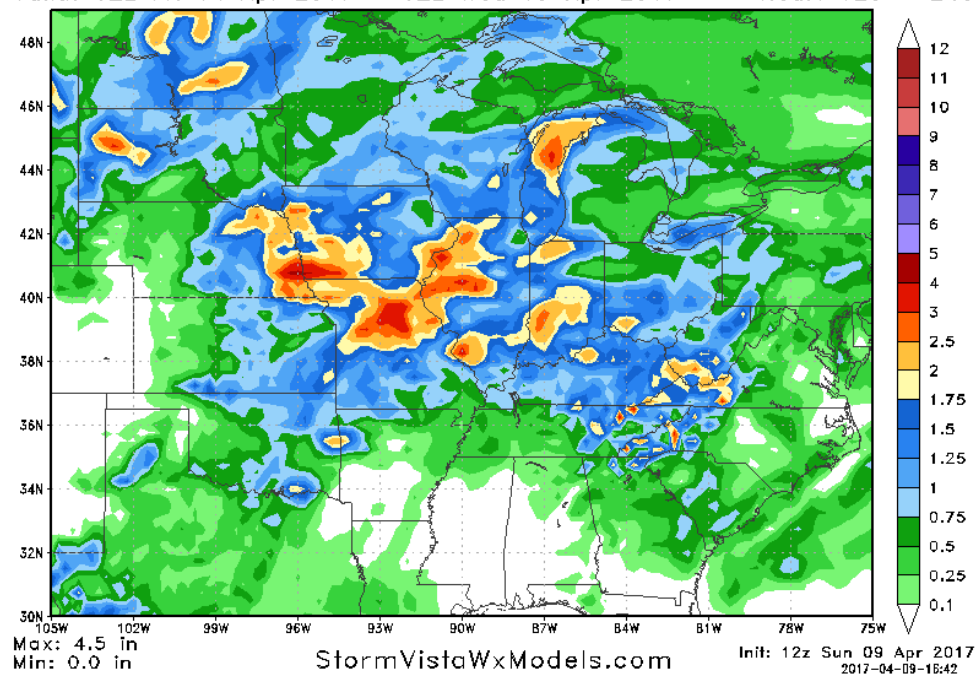
## DAYS 4-5



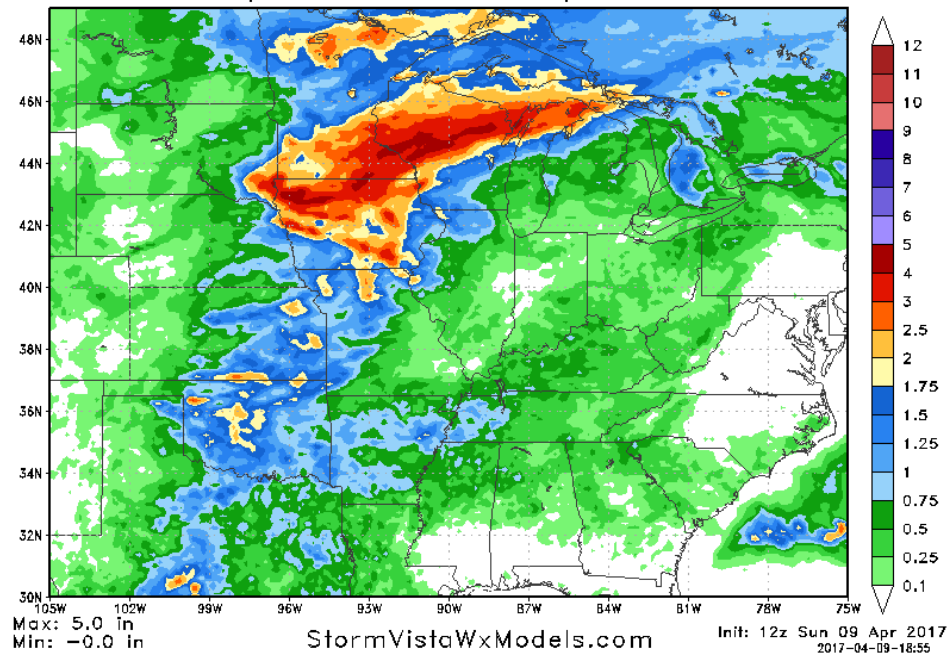
# 6-10 DAY

The Sunday data is even wetter with greater amounts & coverage. Note that the European model has much heavier rains than GFS over WI MN IA.. BUT the Euro & GFS ensemble mean show widespread 0.75-2.0"/ 20-50mm 75 % coverage all of Midwest and 60% eastern SD/ eastern KS/ 80% of MO

120 Hour Total Precipitation (in)  
Valid: 12z Fri 14 Apr 2017 - 12z Wed 19 Apr 2017  
GFS-MAXRES  
Hour: 120 - 240



120 Hour Total Precipitation (in)  
Valid: 12z Fri 14 Apr 2017 - 12z Wed 19 Apr 2017  
ECMWF-MAXRES  
Hour: 120 - 240



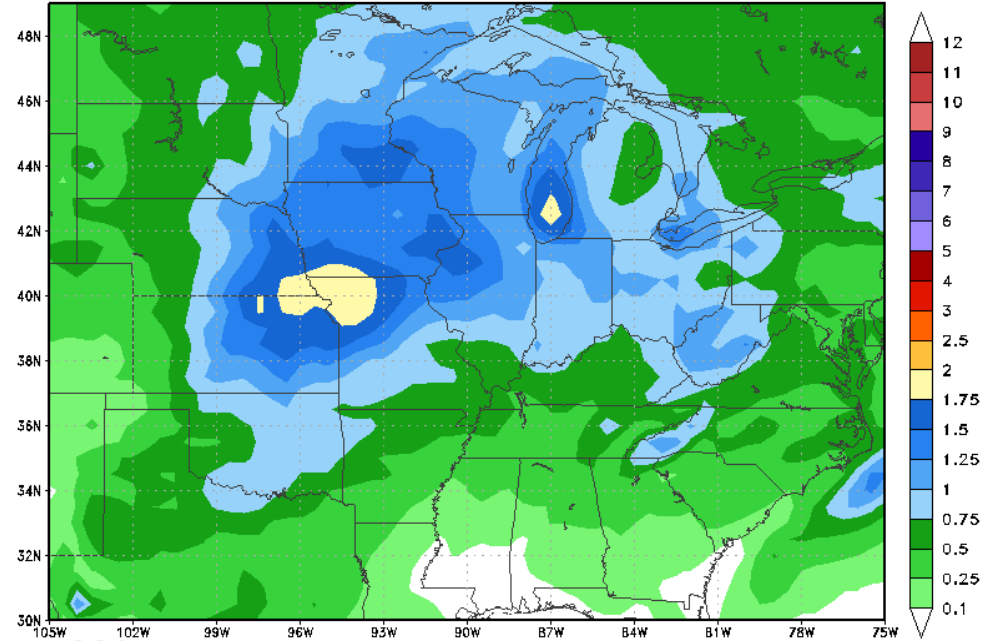
# 6-10 DAY ENSEMBLE

120 Hour Total Precipitation (in)

Valid: 12z Fri 14 Apr 2017 - 12z Wed 19 Apr 2017

GFS-ENS-MAXRES

Hour: 120 - 240



Max: 2.0 in  
Min: 0.0 in

StormVistaWxModels.com

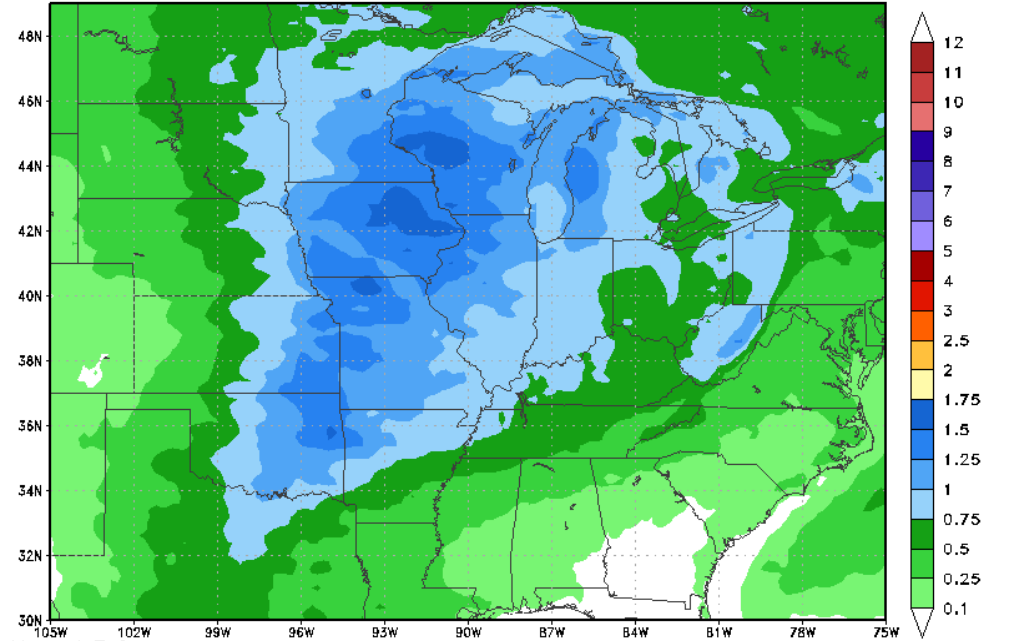
Init: 12z Sun 09 Apr 2017  
2017-04-09-17:20

120 Hour Total Precipitation (in)

Valid: 12z Fri 14 Apr 2017 - 12z Wed 19 Apr 2017

ECMWF-EPS-MAXRES

Hour: 120 - 240



Max: 1.7 in  
Min: 0.0 in

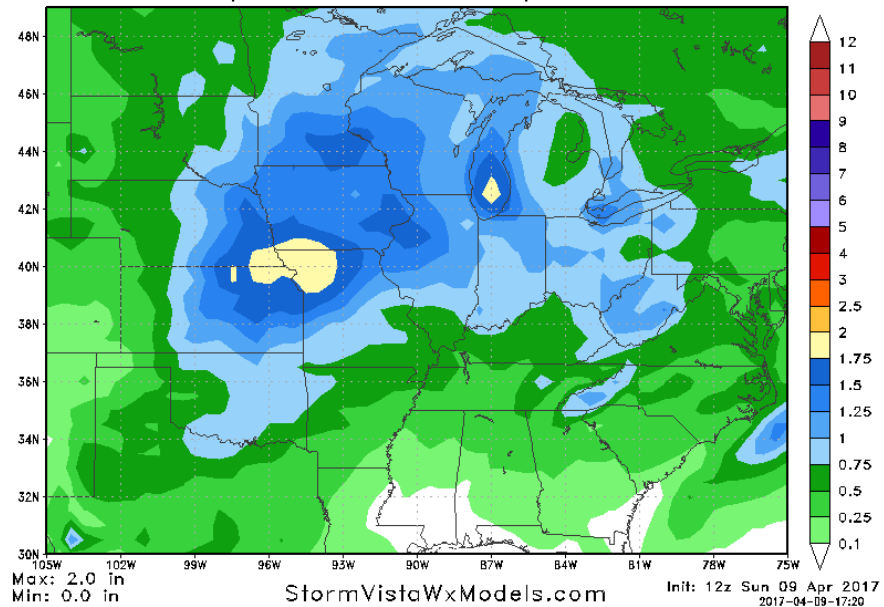
StormVistaWxModels.com

Init: 12z Sun 09 Apr 2017  
2017-04-09-19:41

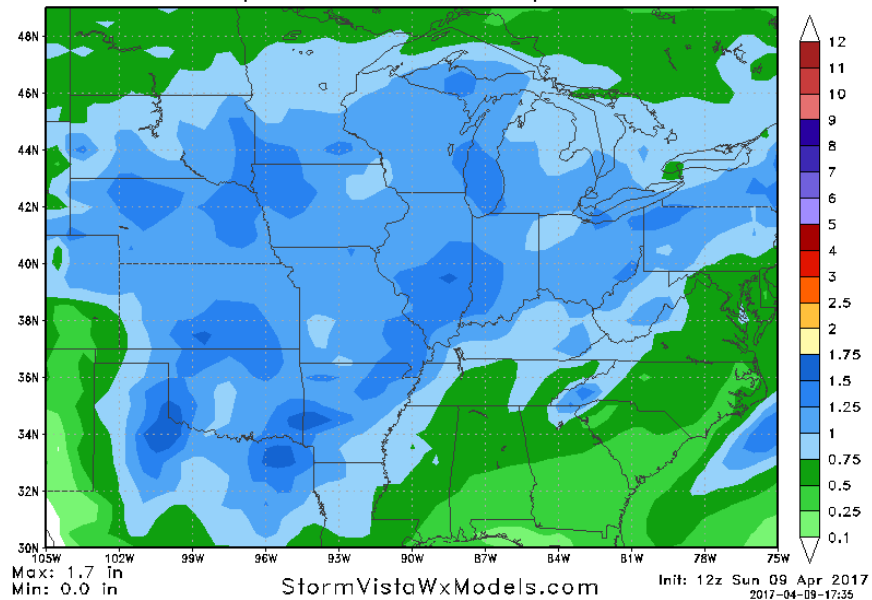
# 11-15 DAY

as we talked about last in the 16-20day... the model data keeps this period of APRIL - 4/19 - 4/24 wet & active with 75% coverage all of central / lower Plains WCB ECB Delta Lower Plains

120 Hour Total Precipitation (in) GFS-ENS-MAXRES  
Valid: 12z Fri 14 Apr 2017 - 12z Wed 19 Apr 2017 Hour: 120 - 240



120 Hour Total Precipitation (in) GFS-ENS-MAXRES  
Valid: 18z Wed 19 Apr 2017 - 18z Mon 24 Apr 2017 Hour: 246 - 366



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