TUESDAY FINAL REPORT US GRAIN WEATHER

7/ 24/17 OVERVIEW

One of serious the problems that maker grain weather markets even more stressful and chaotic than they should be is the fact that the operational GFS model is the first of the midday models to come during the trading day but it is also the most erratic. As a result but the operational or what I refer to as the regular GFS model can cause the wild swings in the grain markets. This is exactly what we saw happened today at midday.

There are several issues talk about some which break them down into individual pieces. The midday models generally show significant rains over portions of the of the Midwest but the trend over the WCB has been to somewhat decreased the rainfall coverage but not the overall rainfall amounts.

In the week 2 forecast there is a lot of confusion because of the wretchedly bad operational GFS model and we get into a lot of that discussion below. Suffice to say we think the wet scenario showing up in the week two G S model is not correct and is not valid.

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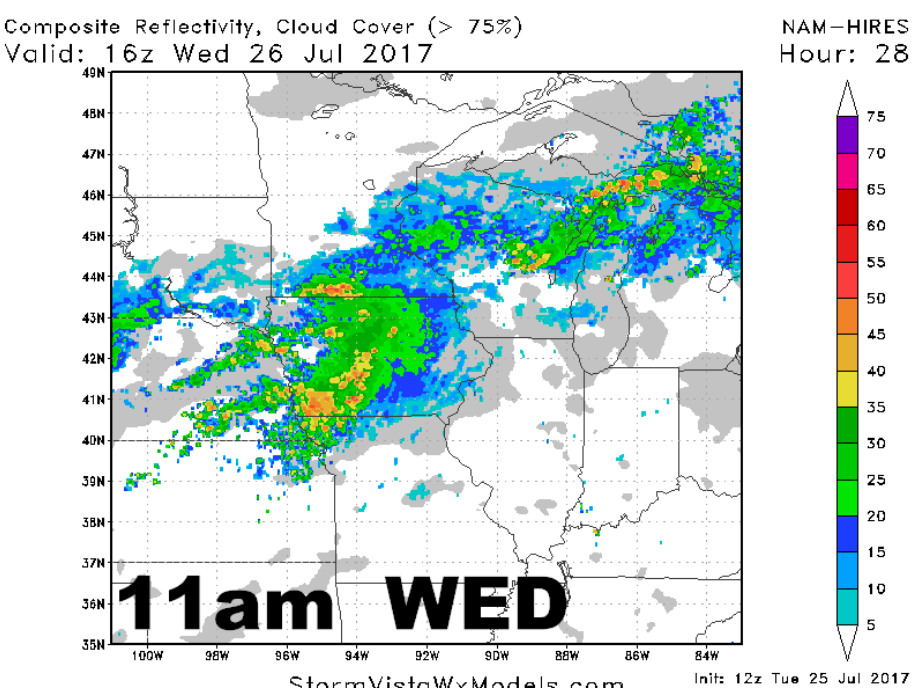
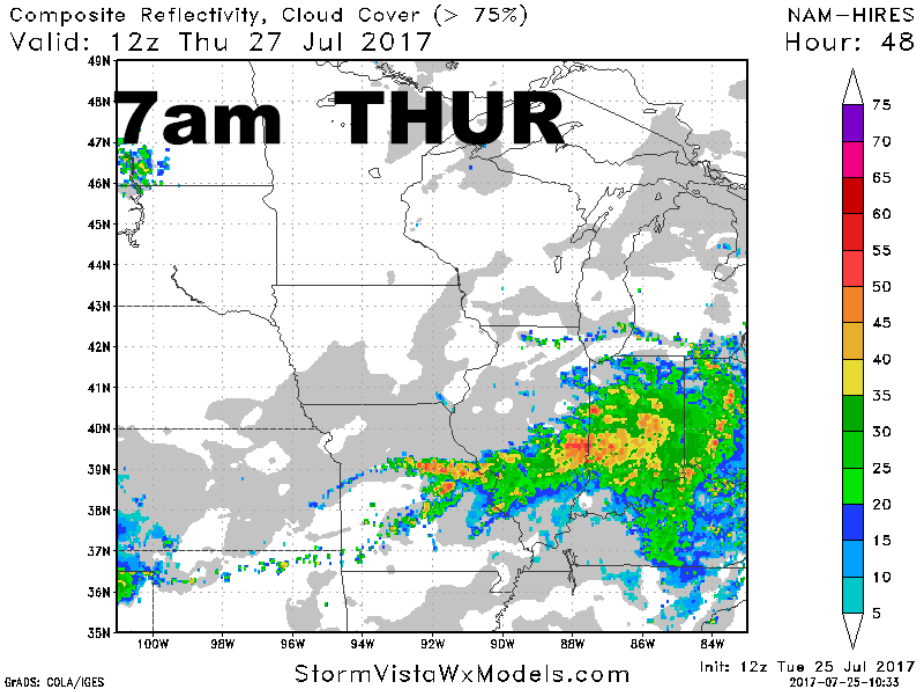
FAST LOADING RADAR

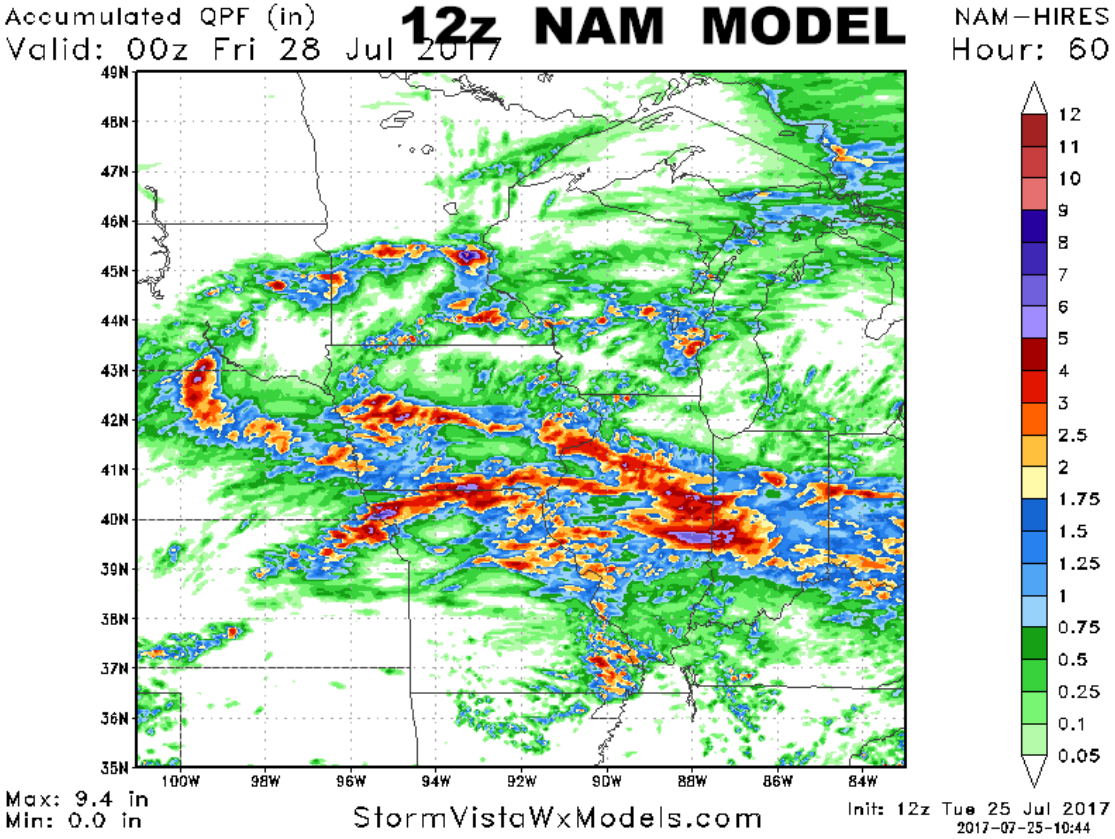
scattered showers over central Wyoming into western / central Souht Dakota and far southeast ND md northwest Minnesota are increasing

NEXT 3 DAYS

There will be a general increase and showers and thunderstorms later on this evening across eastern and southeastern South Dakota and Southern Minnesota. Some of the storms will be severe and produce significant rain ... but they will weaken during the overnight hours and spread into western Wisconsin. But more storms will form the predawn hours over central portions of South Dakota and Nebraska. The storms will move east reaching the Nebraska Iowa border by dawn on Wednesday with additional storms moving into Southern Minnesota by dawn Wednesday.



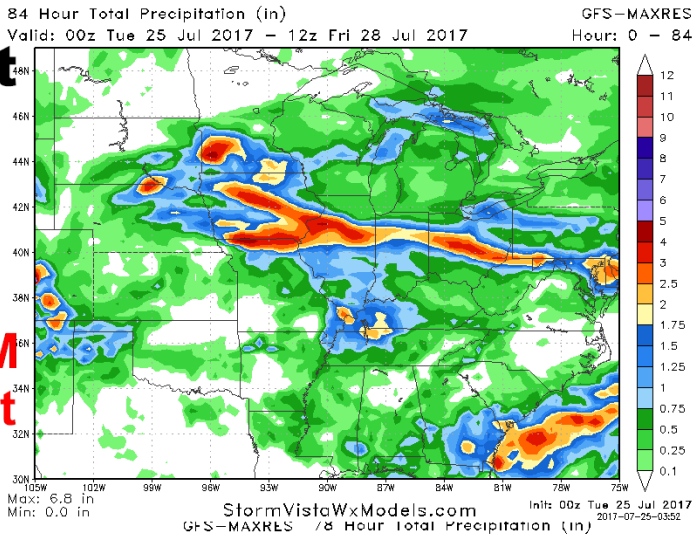




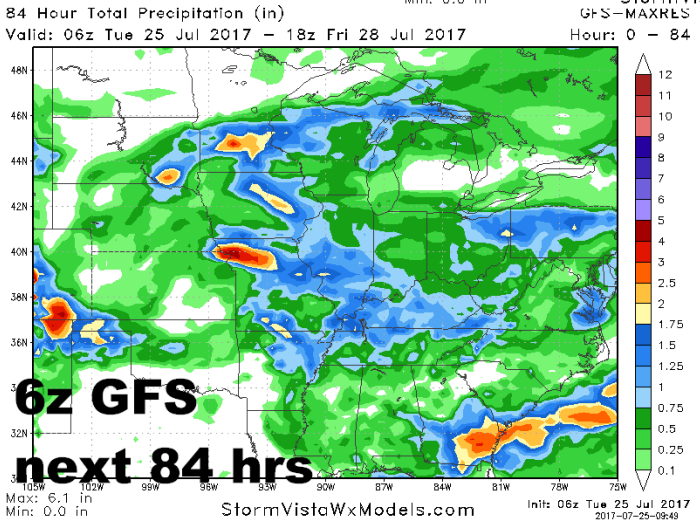
Most of the short range models show moderate to significant rain over anywhere from 50 to 75% of Iowa on Wednesday and Wednesday night with the rain/ storms spreading into central and southern Illinois and northern Missouri Wednesday night into Thursday morning. It appears that the best rains will fall over western ...southwestern ...and southern portions of Iowa as well as northern Missouri and central and west Central Illinois Wednesday and Thursday. The amounts will range from 0.75-3.5"/20- -90mm but there will be locally higher amounts especially over northern Missouri ..near the Iowa border and into portions of central Illinois. AGAIN note the " gaps" in the NAM model

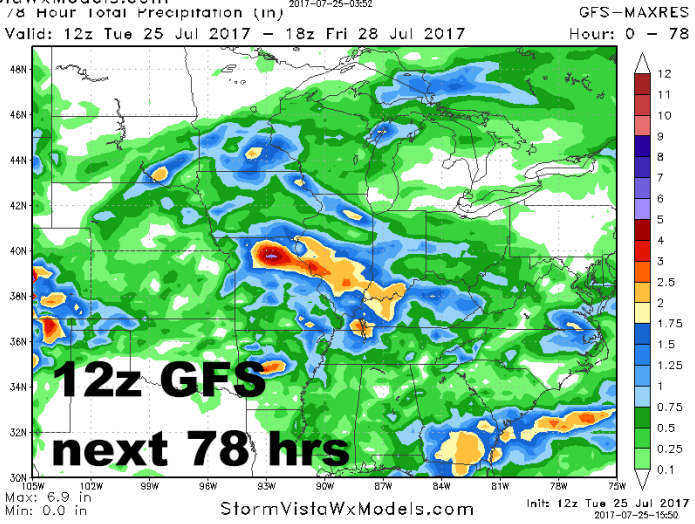
As I stated earlier the midday 12z TUES GFS model is somewhat weaker with the rain over the Iowa over the next three days.... when compared to what the model was showing at 0Z and 6z. The early morning GFS model had coverage of around 80% over a Iowa and 70% over central and southern ILL and the southern third of Minnesota. But as you can see in this image that has changed over the past two runs and there are now large gaps the rain shield over much of Iowa. That being said it should be pointed out that the 12z GFS still maintains significant rain over northern and eastern Missouri and much of central and Southern Illinois.

0z GFS next 84 hrs



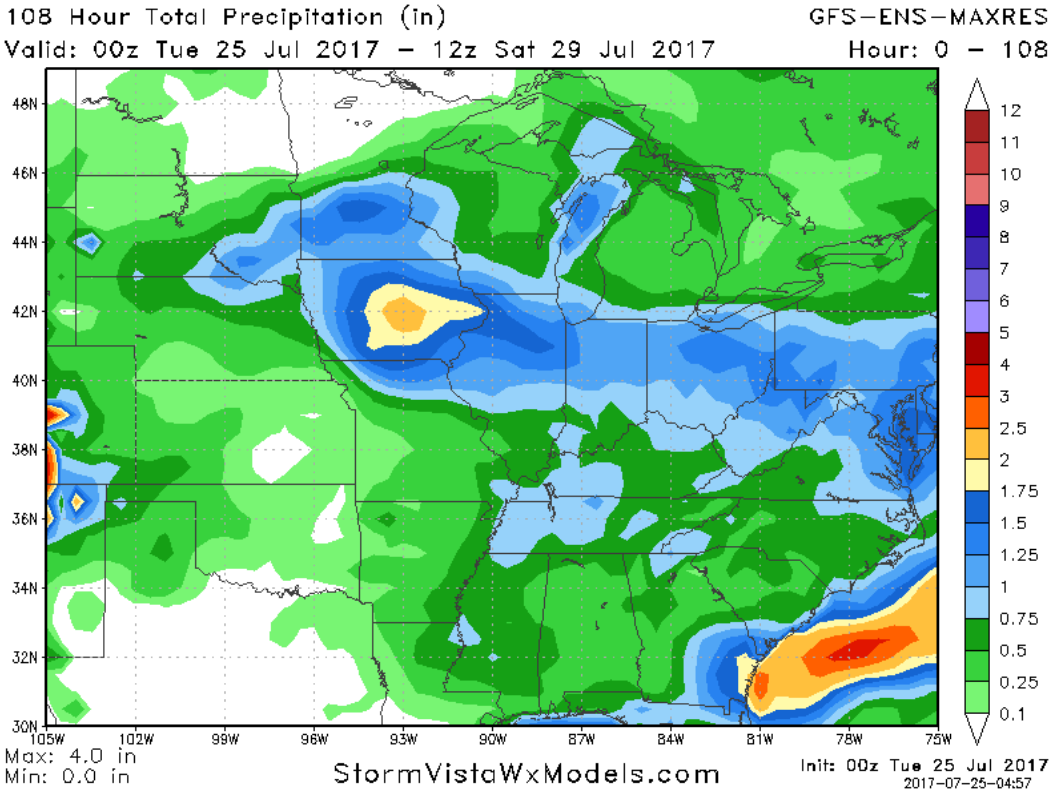
WCB rains SEEM to be falling apart 0z-6z-12z





The 12z GFS ensemble however is still quite wet and stormy over the next 84 hours and shows a large area of 1 to 3 inch rains over the heart of the WCB and into Central Illinois. Even though we 'ae not a fan of the GFS models usually when the event is within 84 hours like this the GFS ensemble is a pretty good model and we think this solution has a better chance of being correct than the very dry Canadian model

12z TUES GFS ENSEMBLE total rainfall next 84 hours



DAYS 4-5-6-7

Most the data shows a dry tranquil pattern with below normal temperatures east of Mississippi River late July and early August over the Midwest and most of the Plains. That is up until the operational Tuesday afternoon GFS model came out..

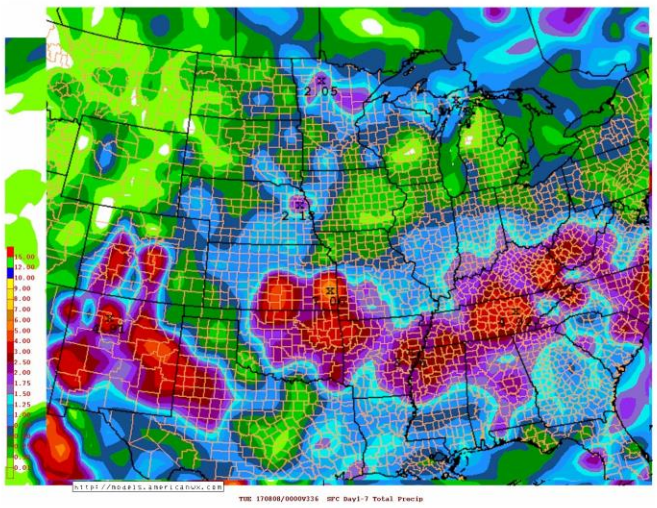
WEEK 2 / 6-10 DAY

As we texted and reported on earlier ...the 12z operational or regular GFS model which this morning showed a very dry pattern for all the Midwest in week 2 ... came out with a dramatically different solution showing a widespread 4 to 8"/ 100-200mm h rain over much of Iowa into southern Minnesota ..southern Wisconsin and eastern Nebraska. Here we can see why the GFS model has turns dramatically wetter. These to maps show the upper air or 500 mb pattern valid a day nine. **The image on the LEFT shows the GFS model from this morning which takes a strong piece of energy in the jet stream and moves it from Wyoming southward into the Louisiana delta. The image on the right side represents the 12Z GFS model and it has the same piece of energy stalling over the heart of the Midwest which is what produces the huge amounts of rain.**

Of course the GFS model had a recent upgrade but and it was hoped that the upgrade would resolve problems like this with the model but it's pretty clear that the upgrade is not doing that at all.

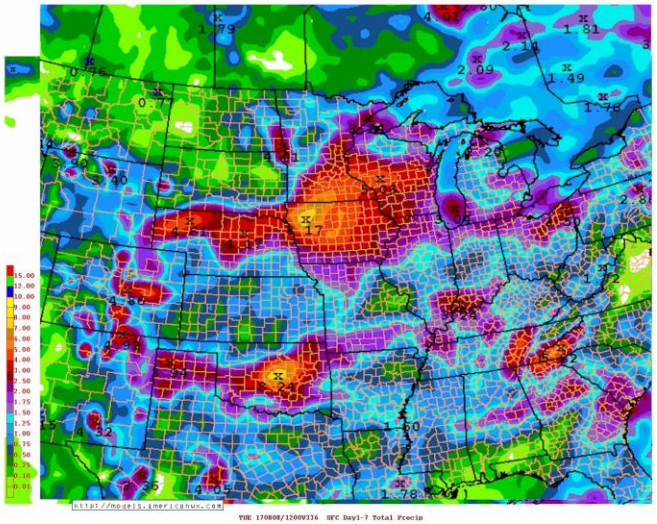
0z TUES AM GFS WEEK 2 RAINFALL

mostly DRY in east NEB... IA.... WI ...north MO and only moderate rains in ECB

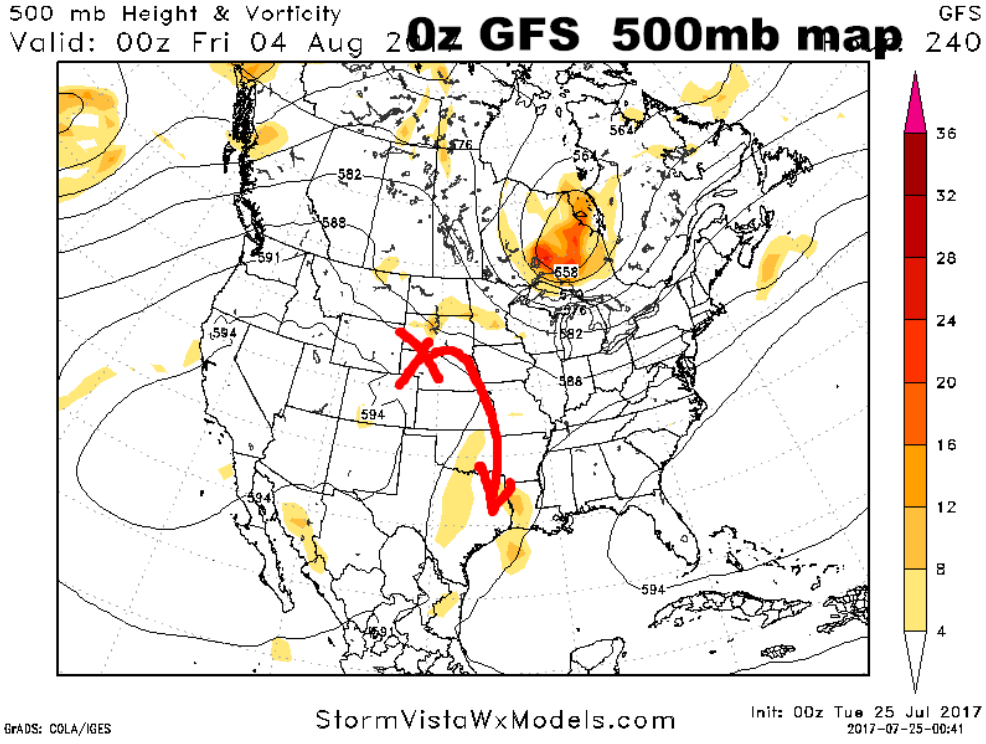


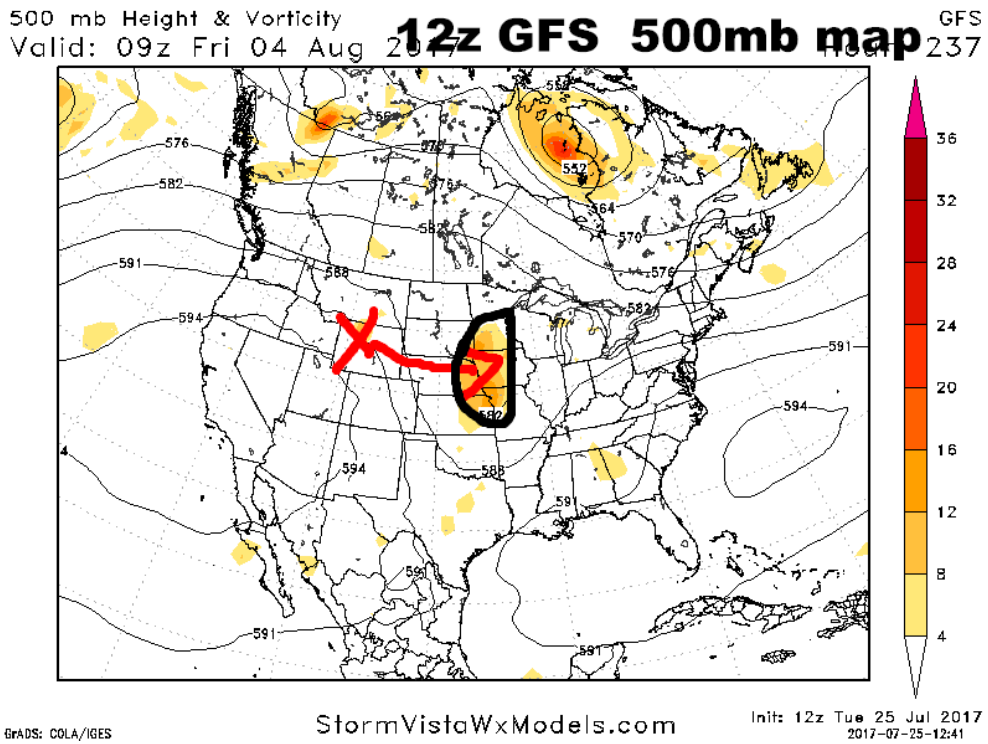
12z TUES AM GFS WEEK 2 RAINFALL

WOW! what a massive change. Even though we still see grain Mets who still tout the GFS those who know what they are doing see this sort of massive change as sign the model is well 'GOOFY



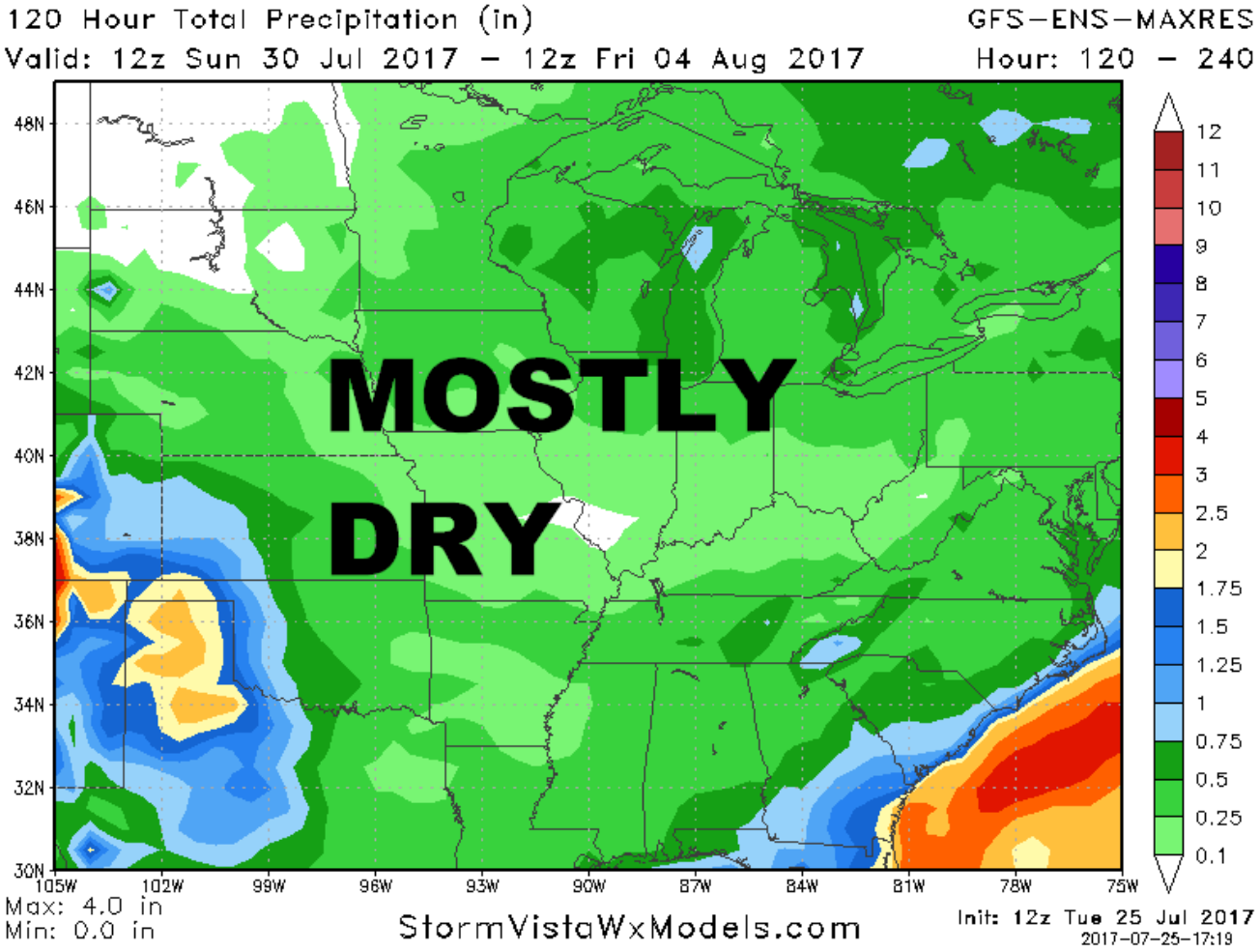
This stunning turnaround simply makes no sense. The GFS model developing a new piece of energy in the jet stream that moves slowly from Colorado to Missouri then up into the Great lakes in week 2. This his slow moving piece of upper energy that causes the model to develop all that rain over the WCB.



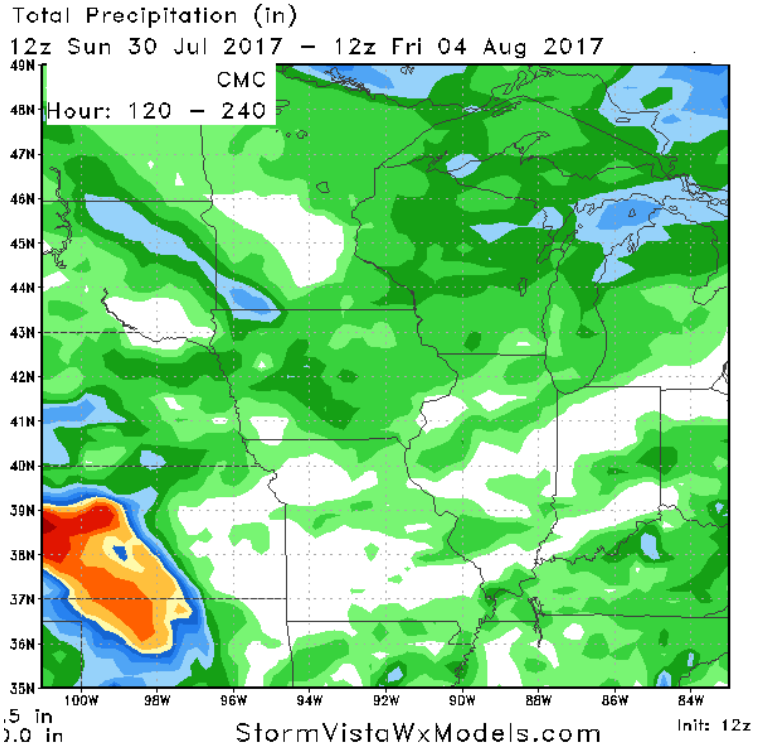


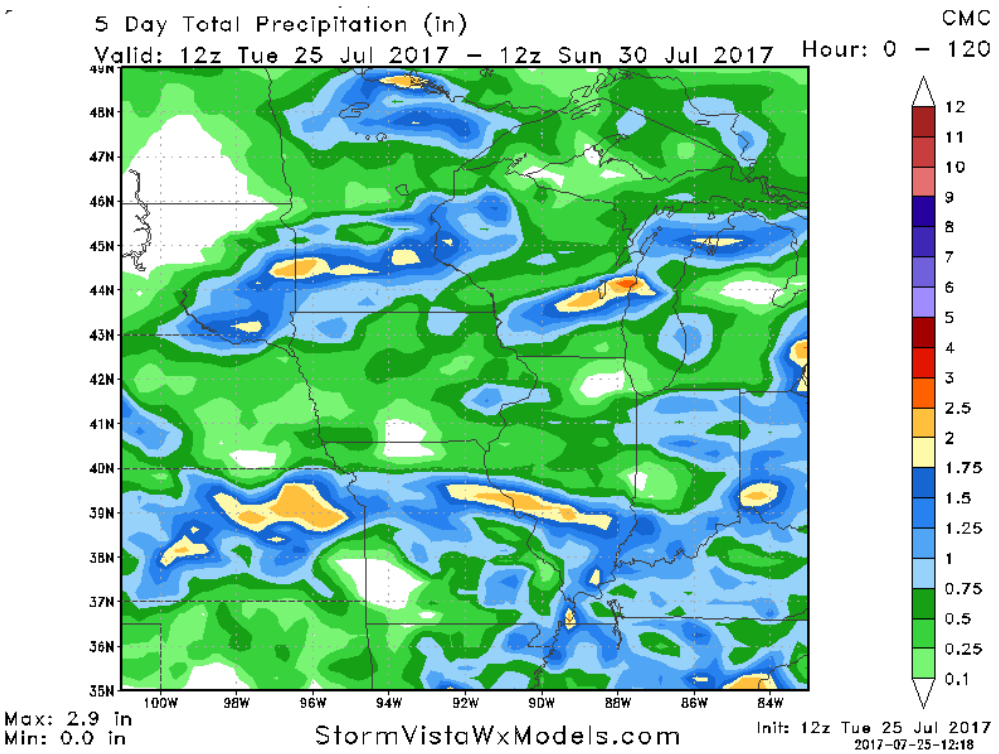
Fortunately there are rules or guidelines that experience meteorologists can use when you see a stunning turnaround in a weather model from its previous runs. One of the rules is to take a look at the model's ensemble and see if that trend are showing up. Aanother rule is to look at the other weather models - at this state in most weather models are soo good that if one model shows a BIG chnage other weather models usually catch on very shortly.

In this case if we look of the GFS ensemble we see there is no hint at all of a massive rain storm over any portion of the Midwest much less the WCB in the week 2 to forecast (6-10day). So this tells me that the massive rain event that the operational GFS is depicting in week 2 over the WCB is essentially BS.



In addition the midday Canadian model in its 6-10 day shows a almost completely dry Midwest.





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