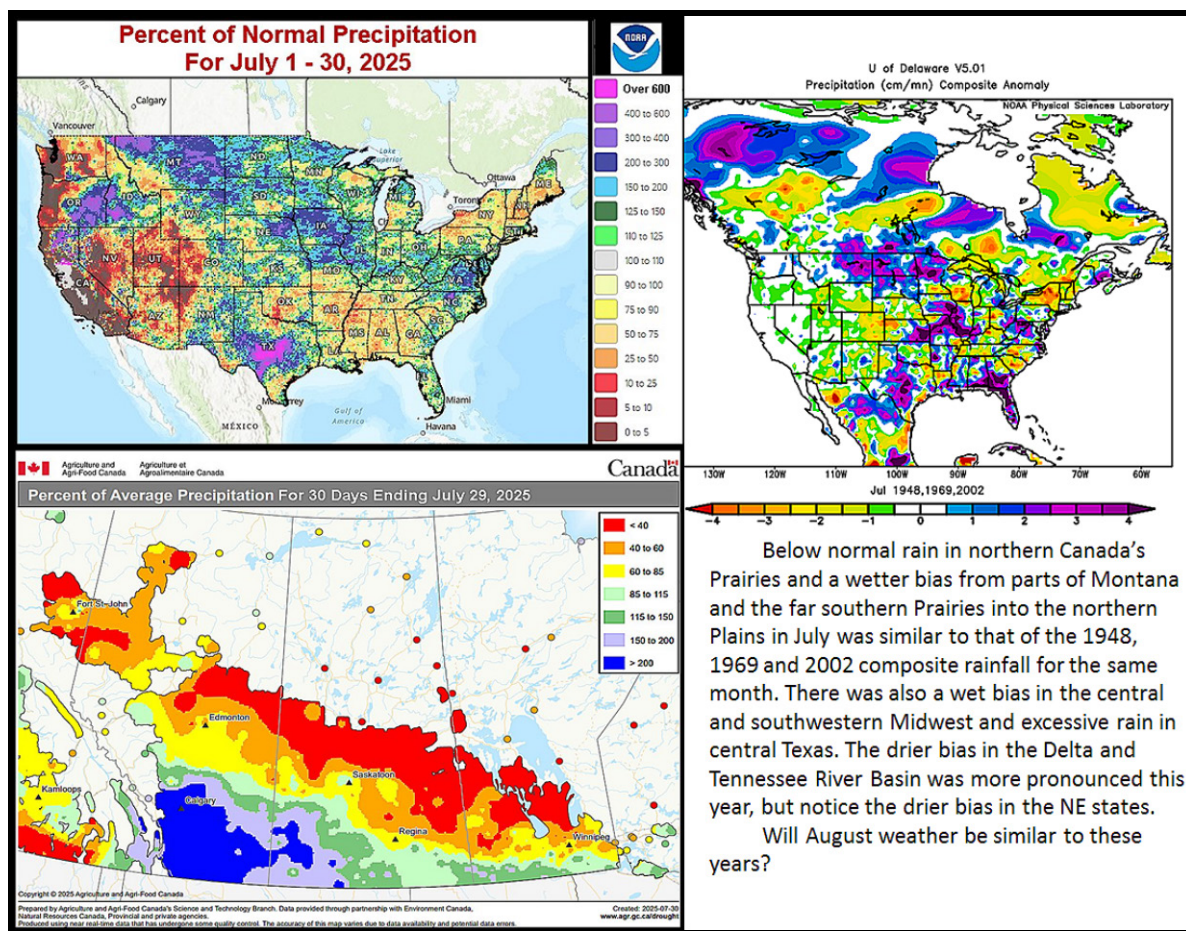


July Weather Parallel Suggest Less East U.S. Midwest Aug. Rain

By Drew Lerner

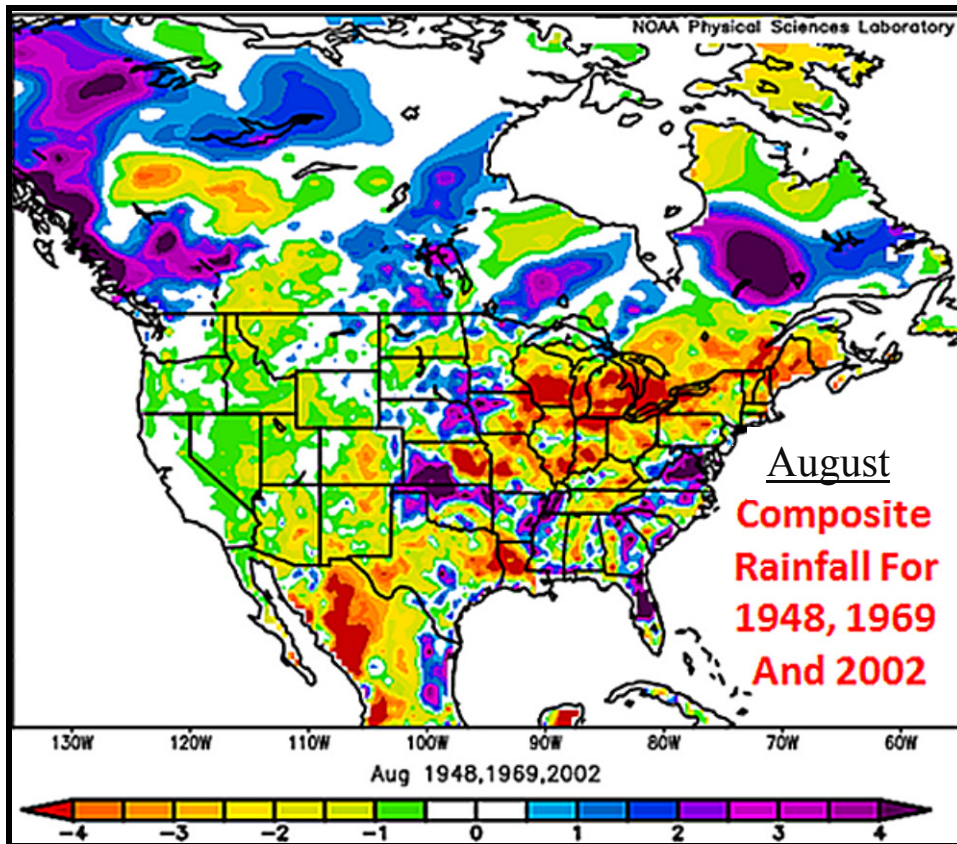
Kansas City, August 1 (World Weather Inc.) – Today's GFS and ECMWF model forecasts are offering less rain in the central and eastern Midwest for the coming week and then return rain in the second week of the two-week outlook. That should be fine if the forecast verifies, but *what if the tropics become more active and a more limited rainfall pattern evolves over the Midwest for a while – which is possible especially late in the second and third weeks of August? There is an interesting parallel to this year's July weather with that from a composite of three other post solar maximum years in which August weather trended drier than usual in the central and eastern Midwest.* It is worth investigating; though, the odds are still favoring at least timely rainfall in the second half of August even if the rainfall is lighter than usual.



Earlier this year, World Weather, Inc. reported on the various repeating cycles that would influence North America weather during the growing season. The influence from the solar and lunar cycles as well as a repeating pattern from 1968 held up well, although each of the patterns had more influence on the weather pattern at different times during the growing season. July seems to have paralleled some of the post solar maximum years that we had investigated previously. *The years 1948, 1969 and 2002 each had some similar July weather biases to the pattern seen in July this year.*

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A composite of the precipitation anomalies in July 1948, 1969 and 2002 was created and the parallels to July 2025 are very interesting. [World Weather, Inc. is not convinced that the parallel from July will continue into August, although today's two-week GFS and ECMWF model runs hinted that some of the dryness suggested for the eastern Midwest might have a chance to verify at least to some degree.](#) Below is the August 1948, 1969 and 2002 composite precipitation anomaly chart.



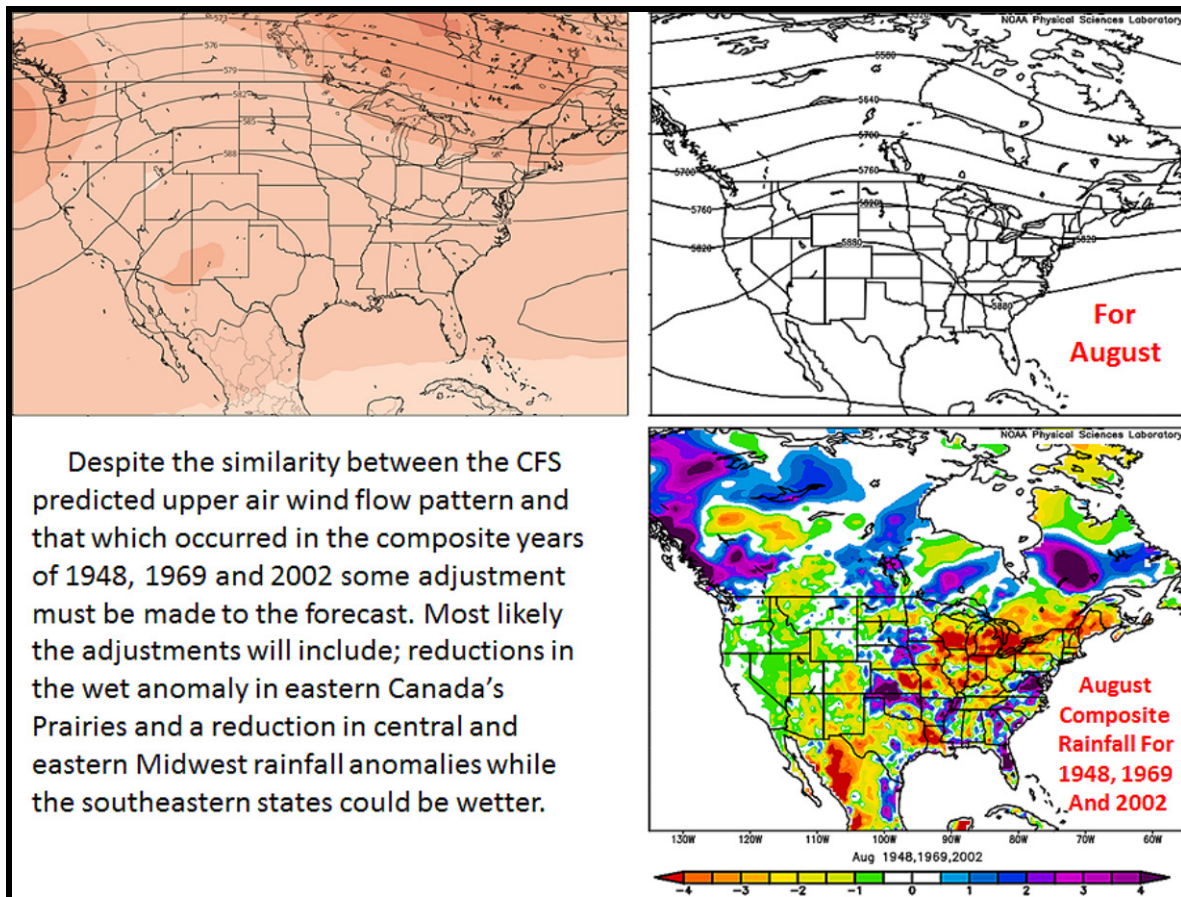
The below normal anomalies in the Midwest seem to be exaggerated and not likely to verify as well as the July parallel did; however, some of the below normal precipitation bias is expected to show up. [The primary reason for expecting at least "some" below normal precipitation bias in the eastern and some central Midwest locations is due to the expectation that the tropics will become more active late in the second and third weeks of August.](#) Those storms may bring greater than usual rain to the southeastern corner of the United States and if that evolves there will be a natural reduction in rain over at least a portion of the Midwest. [If this scenario plays out, there could be a stationary or slow-moving frontal system coming into the northwestern Corn Belt that could produce repetitive rain and generate above normal rainfall while the eastern Midwest is a little drier similar to the August composite from 1948, 1969 and 2002 shown above.](#)

World Weather, Inc. recognizes that much of the scenario presented above is just conjecture, but there is at least some potential for something like that to play out. Confidence is high that the tropics will become more active and when that occurs tropical storms may come toward the United States from Africa. The first week of August is already expected to generate less rain in the Midwest because of the cool high pressure system

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coming into the region now and a stationary cool front that will be near the Gulf of America and lower Atlantic Coast for a while in the coming five days. A short term bout of rain will then evolve briefly in the August. 8-15 period as the old frontal boundary lifts to the north and then comes back to the south as another shot of cooler air arrives.

Before we totally write off this drier potential scenario World Weather, Inc. created a 3-year composite of the upper air wind flow pattern from 1948, 1969 and 2002 and compared it to the CFS August 500mb predicted mean pattern for 2025. Notice the similarity below!



The bottom line to this discussion is the marketplace needs to be aware of the potential for some drier than usual weather in the central and eastern Midwest this month. It will not likely be a drought pattern, but rainfall could be less than usual and that could lead to some firming soil and eventually a little crop moisture stress in “pockets” of the Midwest. Most likely the timeliness of rainfall (despite it being lighter than usual) and favorable subsoil moisture may still lead to good production potentials for soybeans and other late season crops. Nonetheless, the situation should still be closely monitored.

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