

Weather Forecasting For Traders, Investors, and Businesses

US GRAIN WEATHER SUMMARY / part 1

as of FRIDAY 13 APRIL 2018



LOCATED in Richmond VA

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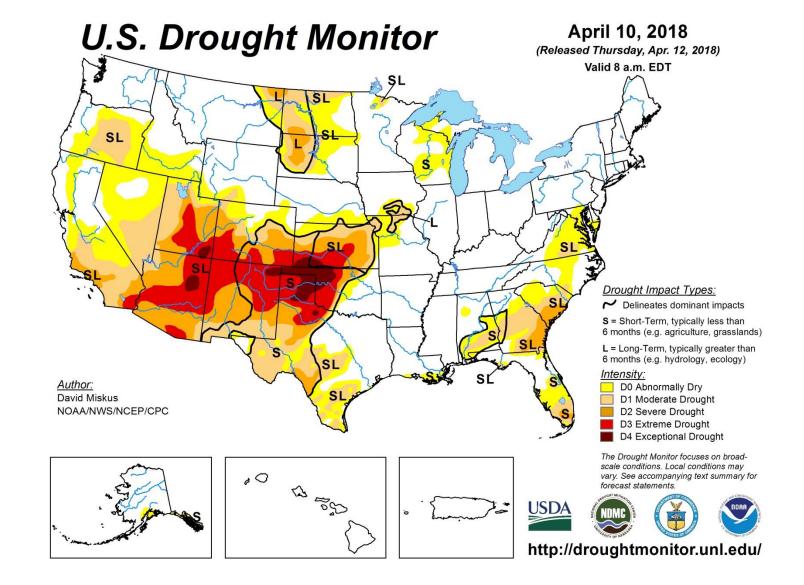
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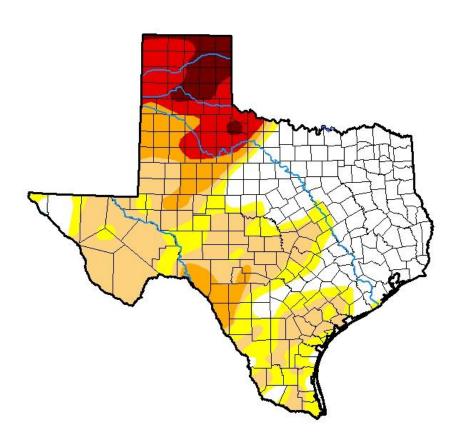
Drought conditions have worsened over HRWW with D4 - EXCEPTIONAL DROUGHT area showing major increases



D4 - EXCEPTIONAL DROUGHT NOW UP TO 13.2% ... D0 to D4 65% of the entire state.. 75% of western half of TX

U.S. Drought Monitor

Texas



April 10, 2018

(Released Thursday, Apr. 12, 2018)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
,	140116	00-04	0104	DE 04	00 04	-77
Current	34.90	65.10	49.01	22.20	13.21	4.27
Last Week 04-03-2018	33.29	66.71	49.43	21.57	13.21	1.47
3 Month s Ago 01-09-2018	27.08	72.92	36.93	10.75	0.39	0.00
Start of Calendar Year 01-02-2018	33.37	66.63	33.56	5.94	0. 11	0.00
Start of Water Year 09-26-2017	70.54	29.46	4.17	0.04	0.00	0.00
One Year Ago 04-11-2017	84.74	15.26	1.71	0.01	0.00	0.00

Intensity:



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

Author:

David Miskus NOAA/NWS/NCEP/CPC



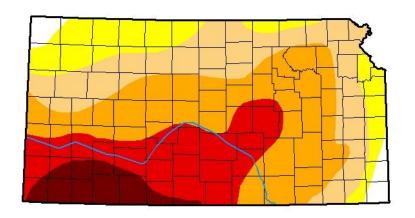






D4 - EXCEPTIONAL DROUGHT NOW UP TO 27% ... D0 to D4 97% of the entire state..

U.S. Drought Monitor
Kansas



April 10, 2018

(Released Thursday, Apr. 12, 2018) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

6	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	2.64	97.36	83.37	59.47	27.06	7.09
Last Week 04-03-2018	2.64	97.36	81.66	56.19	25.59	4.32
3 Month's Ago 01-09-2018	0.00	100.00	52.43	17.23	1.50	0.00
Start of Calendar Year 01-02-2018	0.00	100.00	32.70	8.75	0.00	0.00
Start of Water Year 09-26-2017	59.89	40.11	10.08	1.35	0.00	0.00
One Year Ago 04-11-2017	49.35	50.65	8.55	0.00	0.00	0.00

Intensity:



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Author:

David Miskus NOAA/NWS/NCEP/CPC



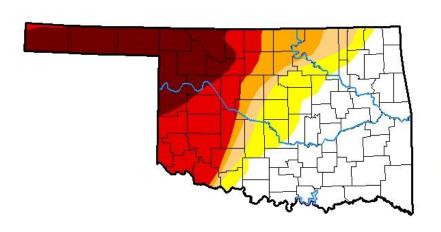






D4 - EXCEPTIONAL DROUGHT NOW UP TO 35% ... D0 to D4 75% of western half of OK

U.S. Drought Monitor
Oklahoma



April 10, 2018

(Released Thursday, Apr. 12, 2018) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

i i	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	41.72	58.28	47.44	42.07	34.85	18.35
Last Week 04-03-2018	41.72	58.28	47.44	42.07	34.85	15.11
3 Month's Ago 01-09-2018	0.00	100.00	82.65	42.11	7.03	0.00
Start of Calendar Year 01-02-2018	0.00	100.00	77.15	38.76	0.00	0.00
Start of Water Year 09-26-2017	64.46	35.54	0.77	0.00	0.00	0.00
One Year Ago 04-11-2017	23.65	76.35	50.92	13.65	0.00	0.00

Intensity:



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

Author:

David Miskus NOAA/NWS/NCEP/CPC





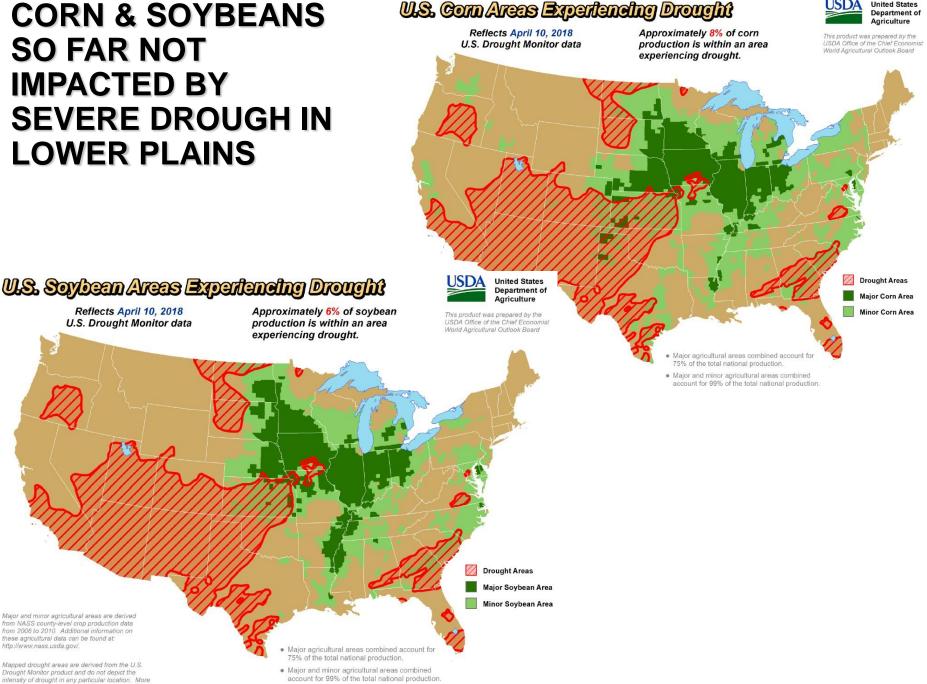




http://droughtmonitor.unl.edu/

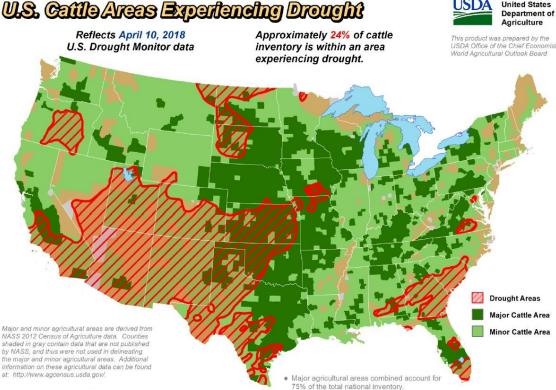
CORN & SOYBEANS SO FAR NOT IMPACTED BY SEVERE DROUGH IN

information on the Drought Monitor can be found



United States

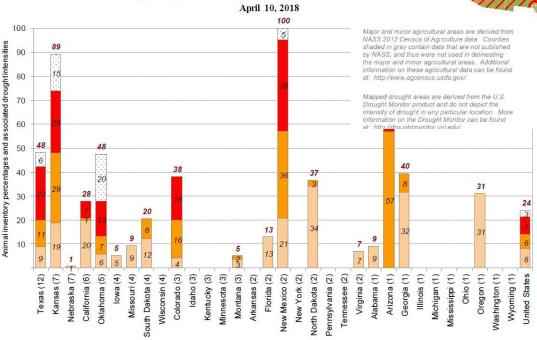
CATTLE IS BEING **IMPACTED BY SEVERE DROUGH IN** LOWER PLAINS... **Especially NM TX OK** KS



· Major and minor agricultural areas combined

account for 99% of the total national inventory

United States

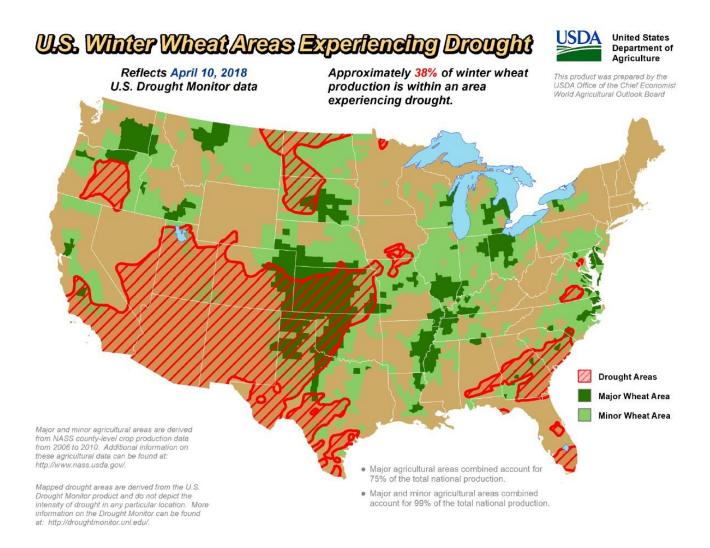


Approximate Percentage of Cattle Located i

State contributions to the total national inventor percentages in parentheses) are based upon National Agricultural Statistics Service (NASS) 2012 Census of Agriculture data. More information on NASS data can

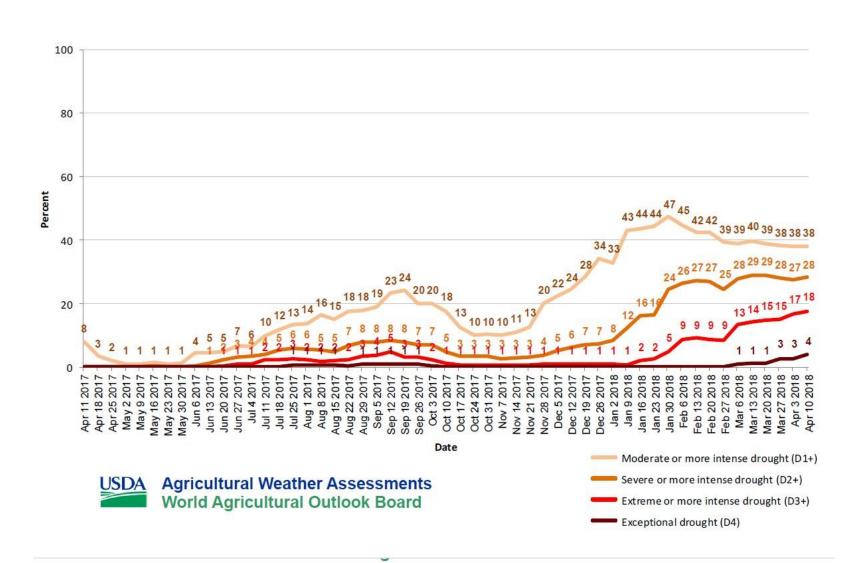


38% OF HRWW BEING IMPACTED ... Not a surprise



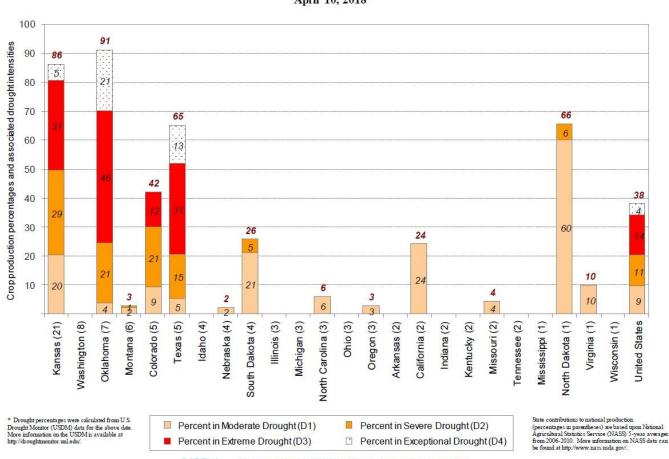
A great graph from USDA that says a lot ...

United States Winter Wheat Areas Located in Drought



HRWW IN KS OK COL TX SEEING BIGGEST IMPACTS FOR THE DROUGHT

Approximate Percentage of Winter Wheat Located in Drought * April 10, 2018





SPRING WHEAT AREAS SEEING SOME IMPACT BUT ITS DECLINING WITH **INCREADING SNOW** AND RAIN ...and MORE IN THE WAY

49 50 53

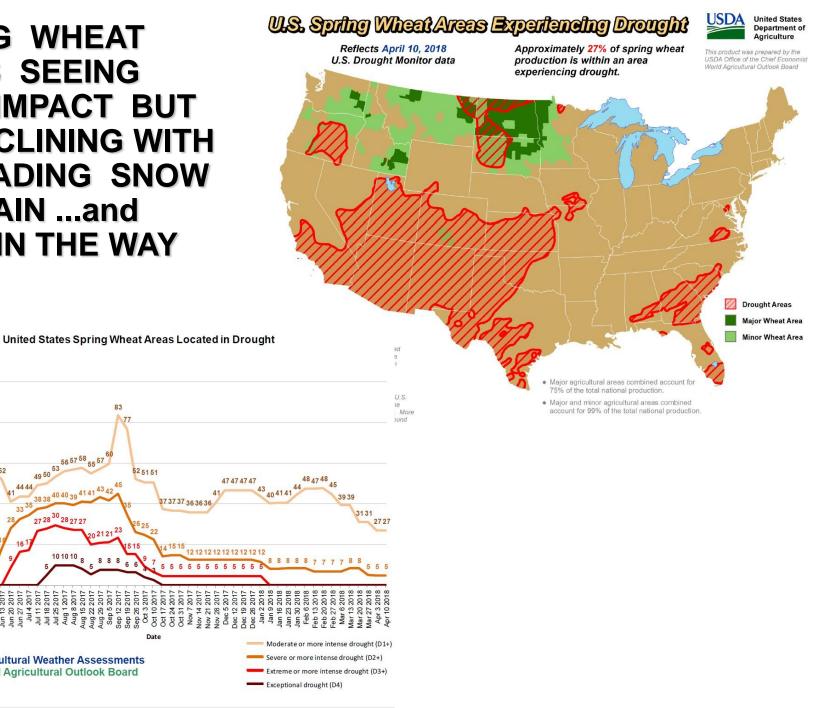
USDA Agricultural Weather Assessments World Agricultural Outlook Board

38 38 40 40 39 41 41 43 42

27 28 30 28 27 27

83

73737363636



100

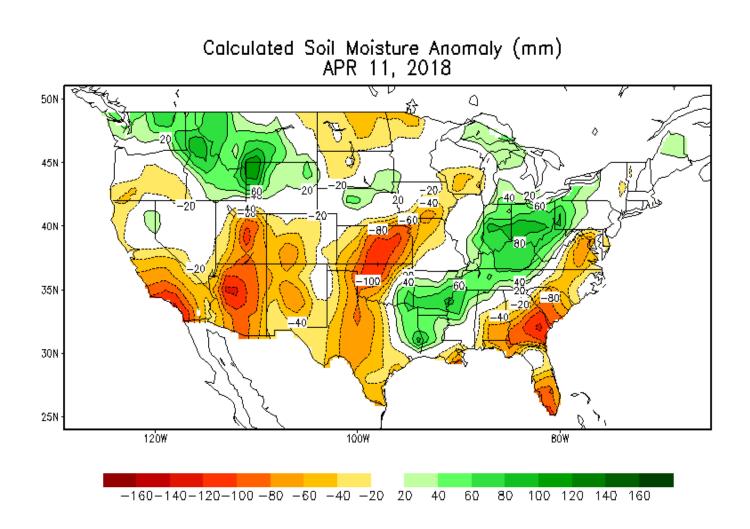
80

60

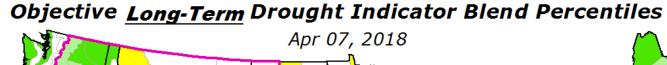
40

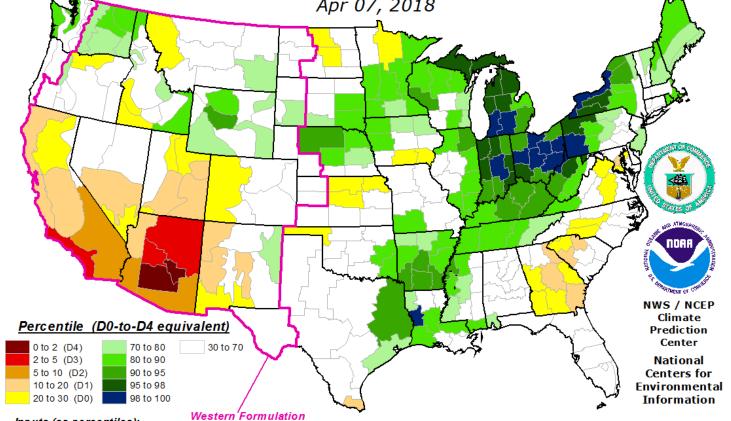
20

SOUTHWEST USA INTO LOWER PLAINS DRY/DROUGHT .. DELTA/ ECB = WET / SATURDATED



LONG TERM DROUGHT / MOISTURE = ECB & DELTA quite wet may have implications for the Summer if this trend continues.. DROUGHT over lower Plains is a relatively RECENT development so it does not show up on this image





Inputs (as percentiles):

25% Palmer Hydrologic Index 20% 24-Month Precipitation

20% 12-Month Precipitation

15% 6-Month Precipitation 10% 60-Month Precipitation

10% CPC Soil Moisture Model

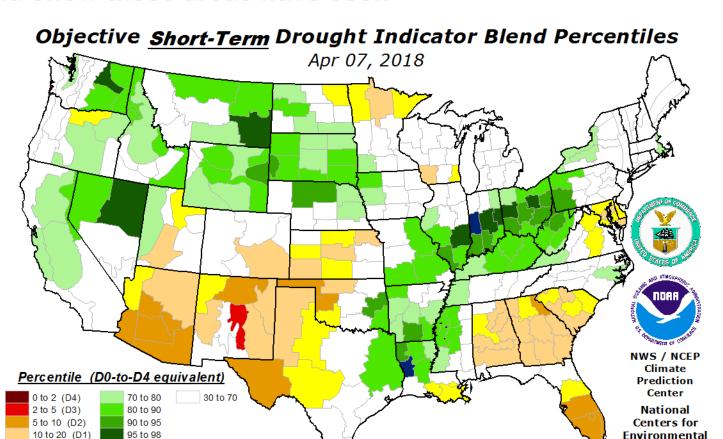
30% Palmer Hydrologic Index 30% 60-Month Average Z-Index 10% 60-Month Precipitation 10% 24-Month Precipitation 10% 12-Month Precipitation 10% CPC Soil Moisture Model

Inputs (as percentiles):

This map approximates impacts responding to precipitation over the course of several months to a few years, such as reservoir content, groundwater, and lake levels. HOWEVER, THE RELATIONSHIP BETWEEN INDICATORS AND WATER SUPPLIES CAN VARY MARKEDLY WITH LOCATION. SEASON, SOURCE, AND MANAGEMENT PRACTICE. Do not interpret this map too literally.

This map is based on preliminary climate division data. Local conditions and/or final data may differ. See the detailed product suite description for more details.

SHORT TERM DROUGHT / MOISTURE = note here the DROUGHT does show up over Plains ... BUT still the ECB & DELTA continues to see above normal moisture. ALSO note the Greens over the Upper Plains that reflect the recent big rains and snow these areas have seen



Inputs (as percentiles):

98 to 100

20 to 30 (D0)

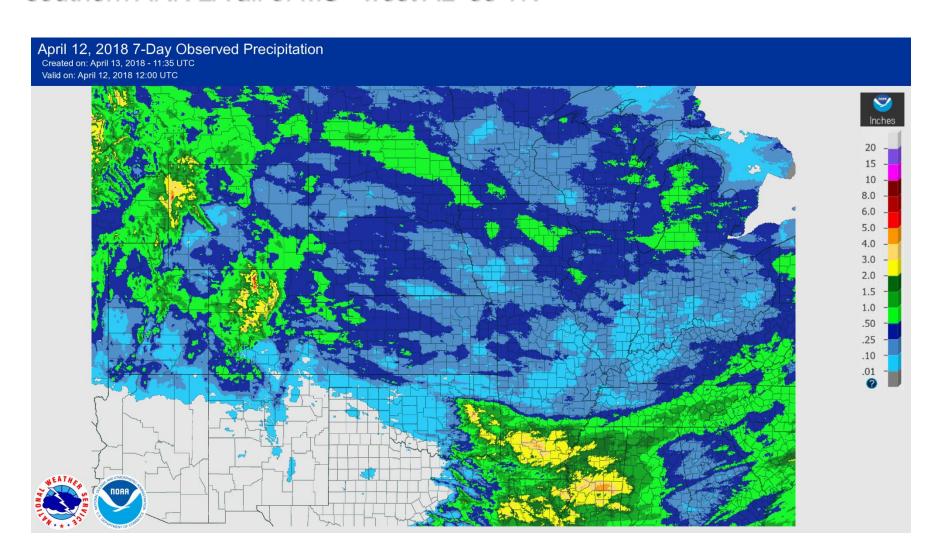
35% Palmer Z-Index 25% 3-Month Precipitation 20% 1-Month Precipitation 13% CPC Soil Moisture Model 7% Palmer Drought Index This map approximates impacts that respond to precipitation over several days to a few months, such as agriculture, topsoil moisture, unregulated streamflows, and most aspects of wildfire danger. The relationship between indicators and impacts can vary significantly with location and season. Do not interpret this map too literally.

This map is based on preliminary climate division data. Local conditions and/or final data may differ. See the detailed product suite description for more details.

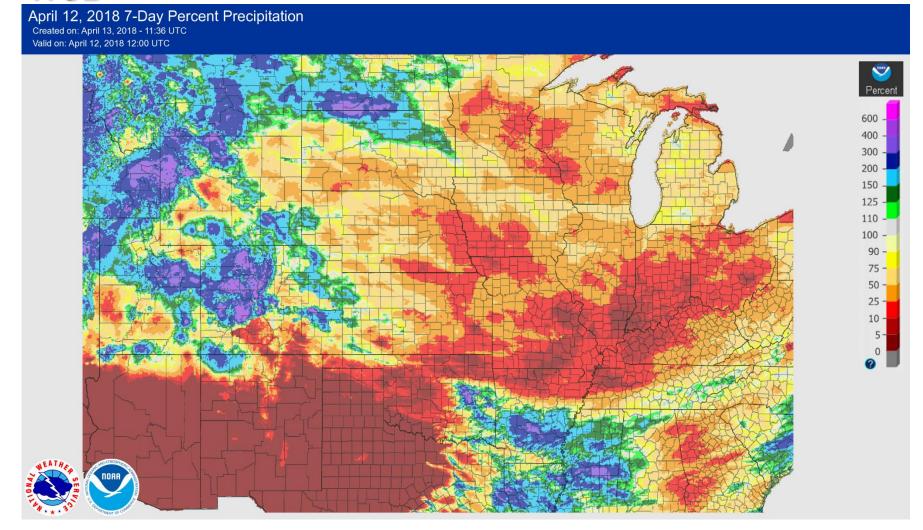
Information

PRECIP AMOUNTS PAST 7 DAYS -Minor precip in

KS NEB eastern COL 0.25-1.0"/6-25mm and over eastern SD northwest / central IA 0.50-3.0"/ 12-100mm over far se OK southern ARK LA all of MS west AL se TN

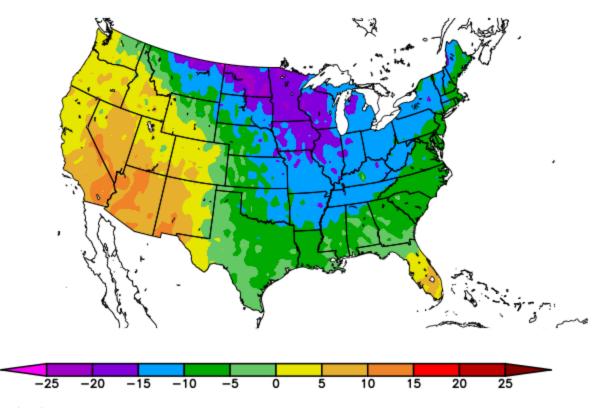


PRECIP ANOMALIES PAST 7D — no rains Over TX Panhandle/ western half of TX western OK...western KS 50-100% but east KS 5-25% of Normal which extended into MO south ILL IND OH KY... 25-75% over NEB SD WCB

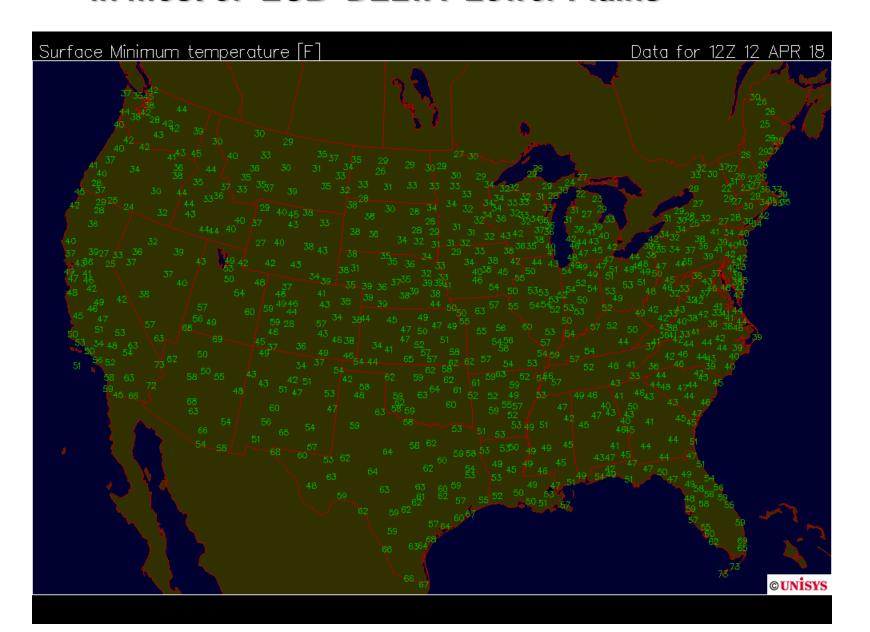


TEMP ANOMALIES PAST 7 DAYS - for APRIL this is brutal

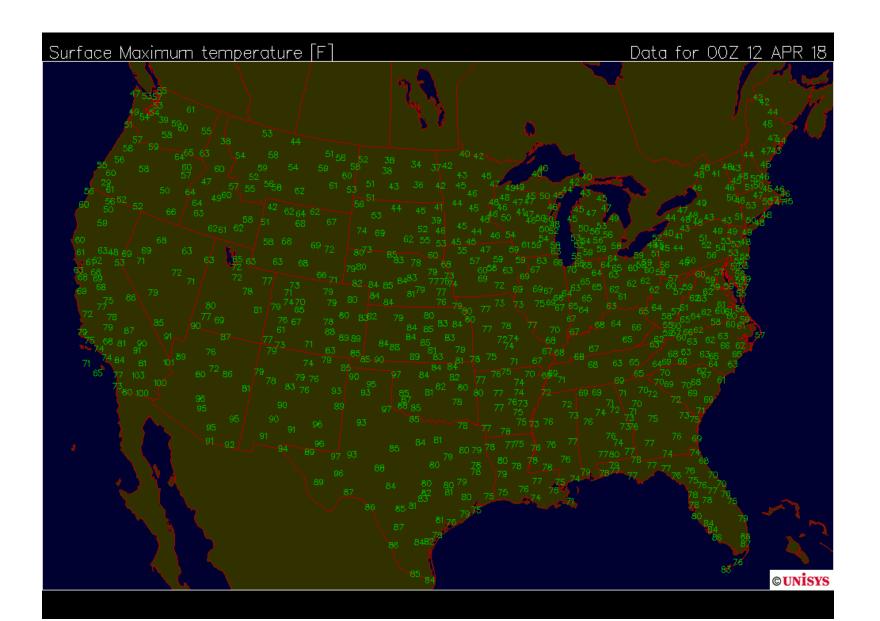
Departure from Normal Temperature (F) 4/5/2018 - 4/11/2018

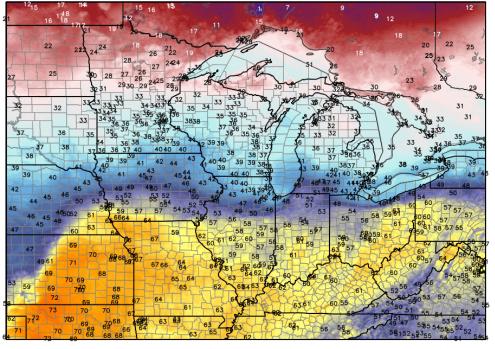


NOT nearly as cold... Temps stayed above 45 in most of ECB DELTA Lower Plains



ACTUALLY hot in lower Plains and warm in the Midwest



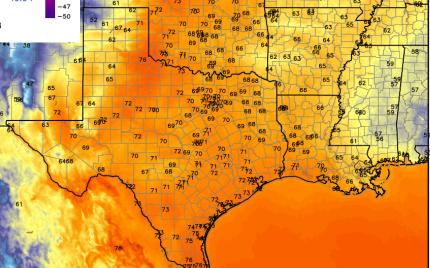


FRIAY MIN TEMPS -huge contrast over WCB

48.2°F Min: 57.1°F Min: 56.7°F Min: 29.4°F Min: 35.5°F Min: 54.9°F Min: 35.2°F Min: 36.3°F 39.5°F 38.8°F 10.8°F 67.3°F 66.0°F lowa Ohio: Max: 64.5°F 44.0°F 44.5°F 65.9°F 52.7°F Indiana: Max: Minnesota: Max: Max: 19.4°F 37.8°F 20.9°F Wisconsin: Max:

Missouri: Max: 69.1°F Kentucky: Max: 66.6°F Avg: 64.1°F Min: 55.5°F Avg: 61.2°F Min: 49.6°F

NCEP RTMA (2.5km) 2-meter Temp [°F] 10Z13APR2018 WeatherBELL Models



-17 -20 -23 -26 -29 -32 -35 -38 -41

-44

122

116

110

104

80

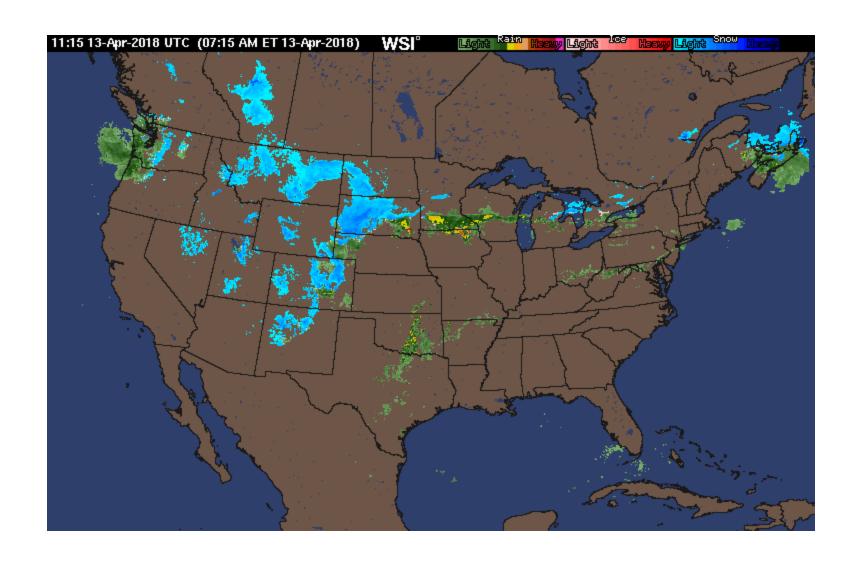
20

-5 -8 -11

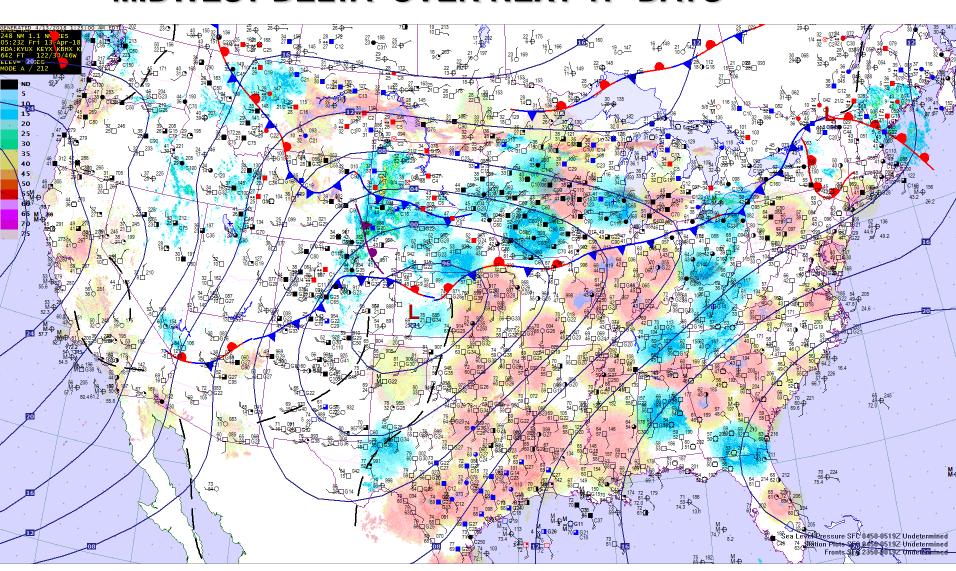
-20 -23

-35 -38 -41

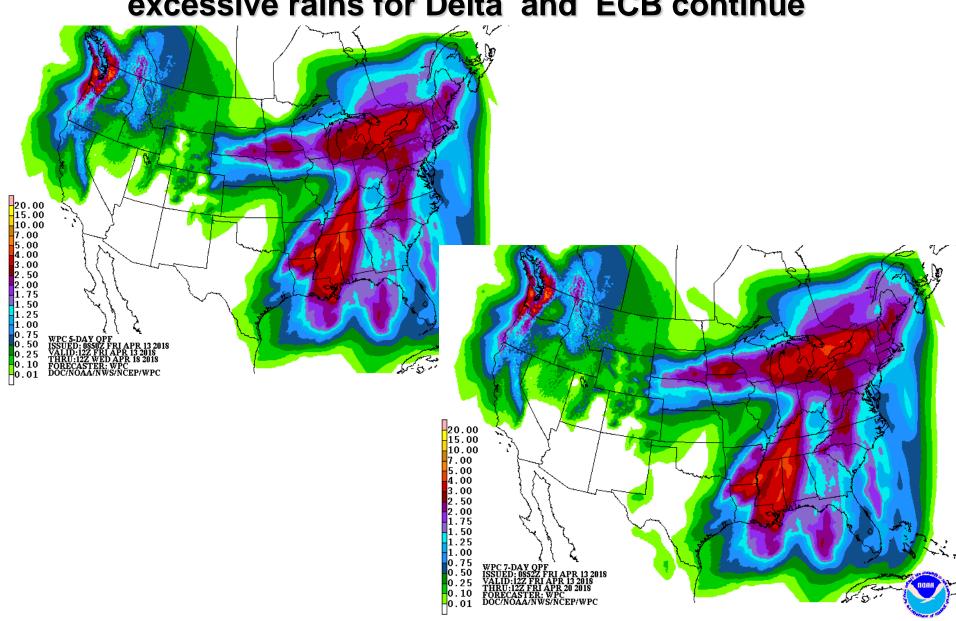
RADAR FRIDAY 8AM EDT



FRIDAY AM SURFACE MAP 1st OF SERIIES OF MODERATE TO MASSIVE SURFACE LOW PRESSURE AREAS TO AFFECT PLAINS/MIDWEST DELTA OVER NEXT 17 DAYS



NWS OFFICIAL RAINFALL NEXT 5 DAYS – and next 7 days - nothing for HRWW areas while excessive rains for Delta and ECB continue



PATTERN REMAINS ACTIVE / STORMY FOR NEXT 3 WEEKS AT LEAST ...

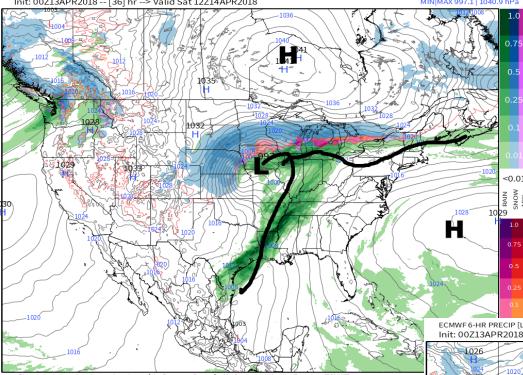
AT LEAST 4 MODERATE/ MAJOR SURFACE LOW PRESSURE AREAS AND SOME RISK OF SIGNIFICANT RAIN OVER HRWW AREAS

APRIL 13-14

APRIL 17-18

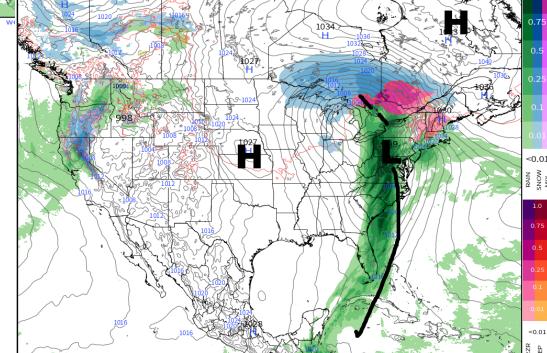
APRIL 21-23

APRIL 25-27



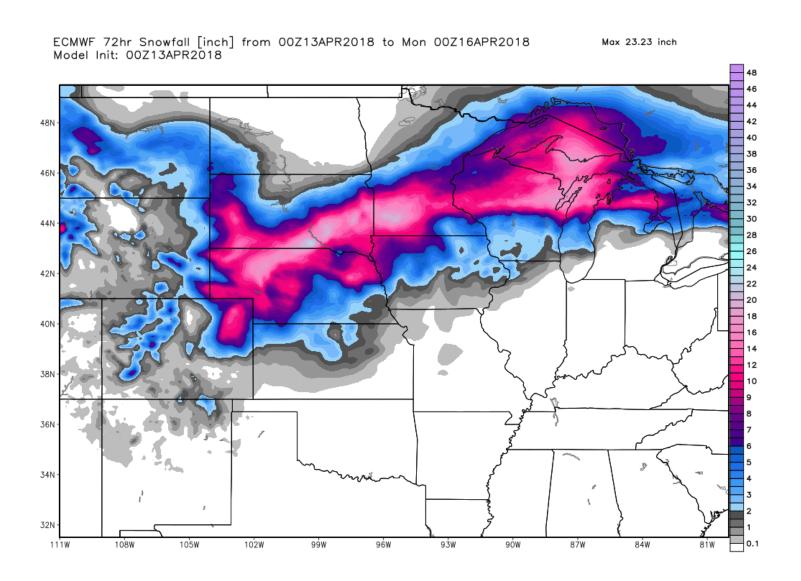
SYSTEM #1

ECMWF 6-HR PRECIP [Liquid Equiv | inch] & Dominant TYPE between 00Z16APR2018 -- 06Z16APR2018 + MSLP [hPa]
Init: 00Z13APR2018 -- [78] hr --> Valid Mon 06Z16APR2018 1039 MIN|MAX



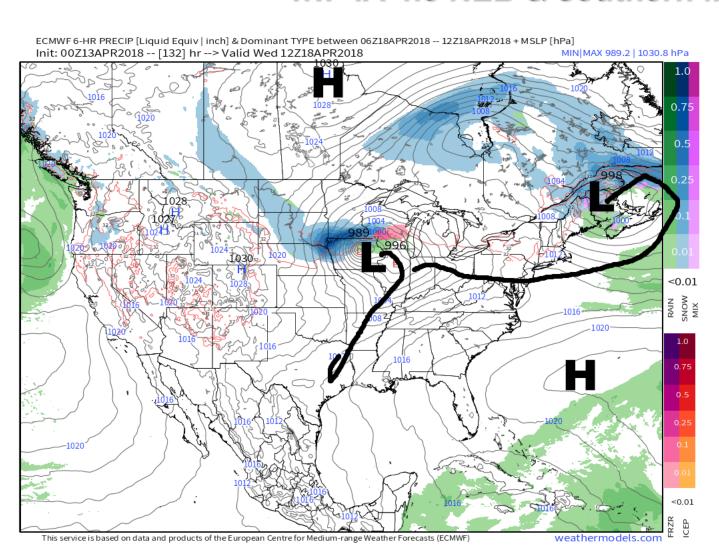
THE SPRING
BLIZZARD THIS
WEEKEND – and
SEVERE WX FOR
DELTA & ECB

WOW -- huge area of 6-16" of snow

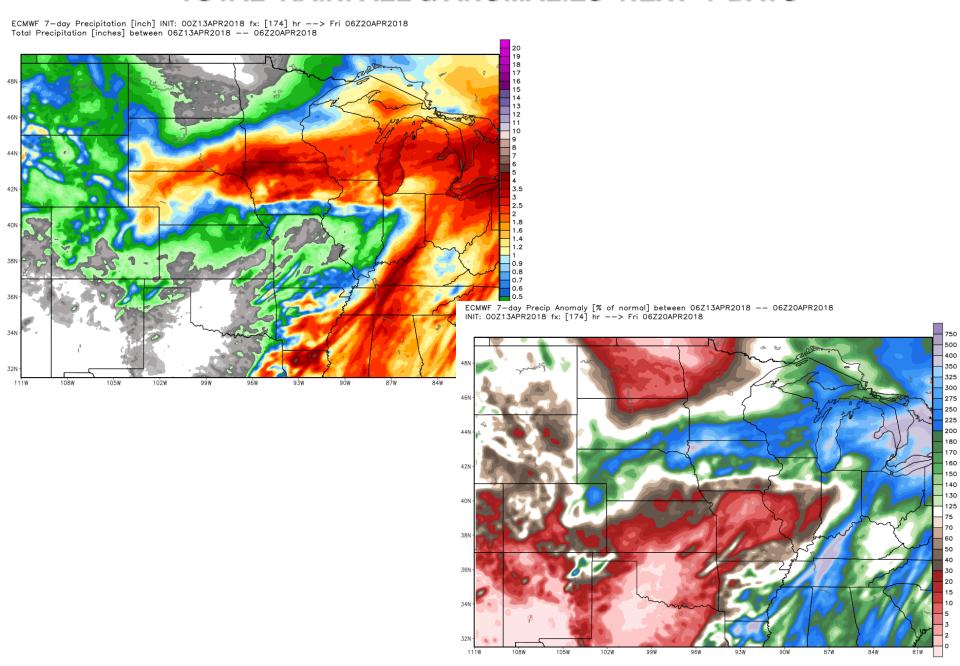


SYSTEM #2

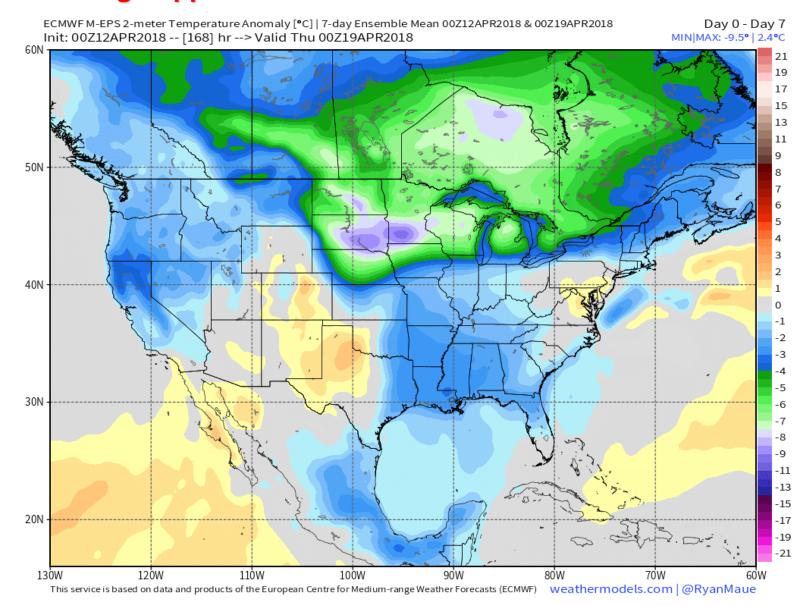
NOT AS MASSIVE AS THIS WEEKEND LOW.. But still Decent and will bring SNOW to nw IA ne NEB & southern MN

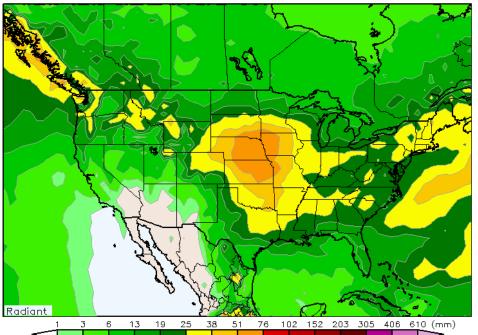


TOTAL RAINFALL & ANOMALIES NEXT 7 DAYS-



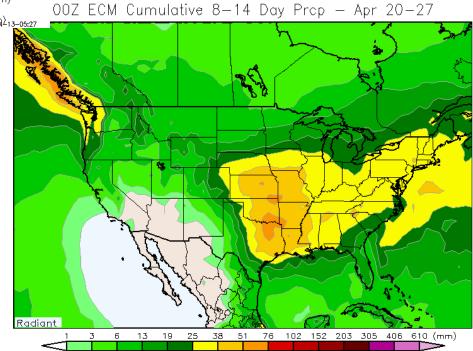
TEMPS ANOMALIES OVER NEXT 7 DAYS- DARN COLD FOR Upper Plains / Midwest/ with heart of the cold air just entering Upper Plains

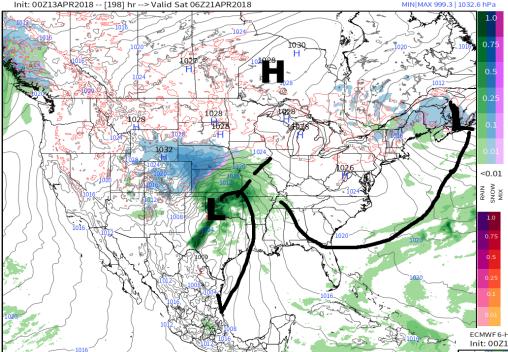




WEEK 2 RAINS

GFS ensemble has 2-3"/50-75mm over central Plains into west side of WCB – EURO ensemble has 2-3"/50-75mm rains far east OK/ TX/ Delta



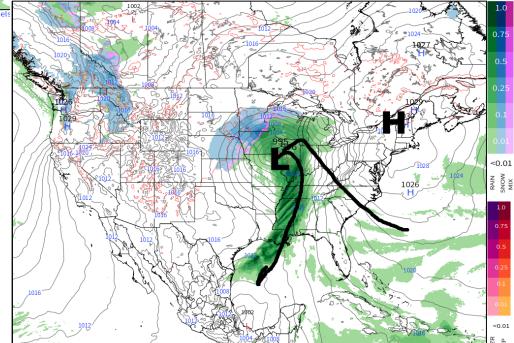


This service is based on data and products of the European Centre for Medium-range Weather Forecasts (ECMWF)

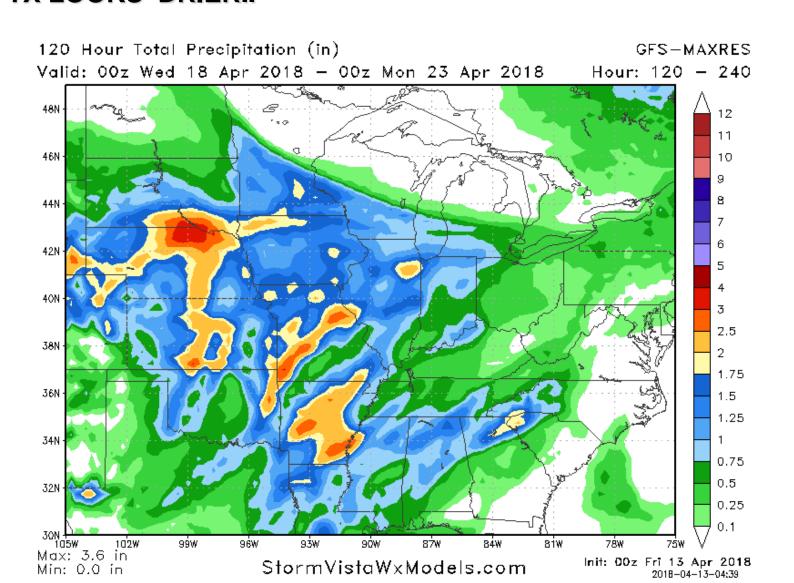
SYSTEM #3 April 20-22

ECMWF 6-HR PRECIP [Liquid Equiv | inch] & Dominant TYPE between 06Z22APR2018 -- 12Z22APR2018 + MSLP [hPa] Init: 00Z13APR2018 -- [228] hr --> Valid Sun 12Z22APR2018

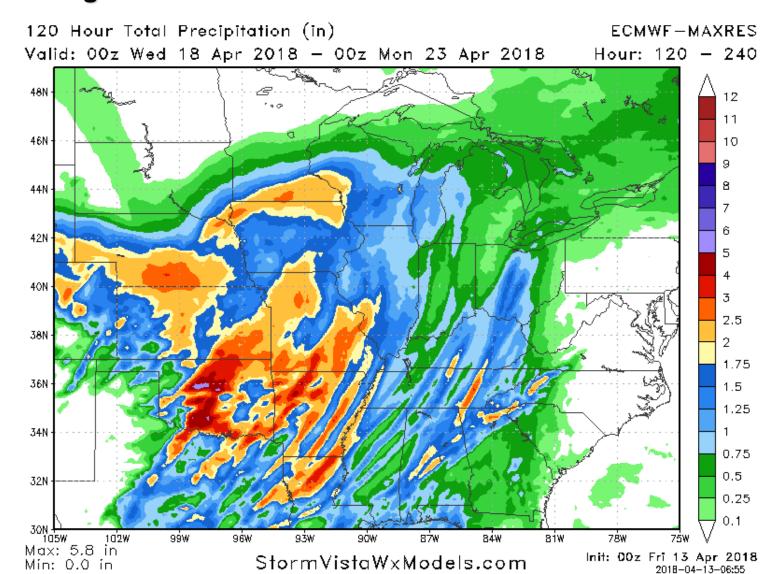
MIN|MAX 995.2 | 1030.5 hPa



OZ FRI GFS RAINFALL FORECAST FOR SYSTEM NUMBER 2 APRIL 20-22... 1-2.5"/25-60mm over 75%+ KS NEB IA MO ARL ILL... 1-2"/25-50mm 60% south SD/ MN ... TX LOOKS DRIER..



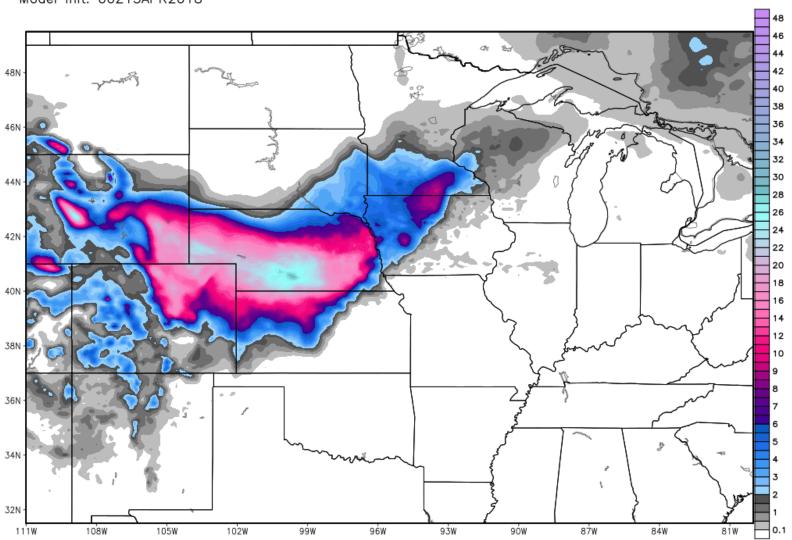
OZ FRI EURO RAINFALL FORECAST FOR SYSTEM NUMBER 2 APRIL 20-22... 1-3"/25-75mm over 75+ KS NEB IA MO ARK... 2-5"/50-125mm 70% OK ...1-3"/ 25-75mm over 60% of east half TX LA...1-2"/25-50mm 50% coverage WI MS AL TN KY.. West TX LOOKS DRIER..



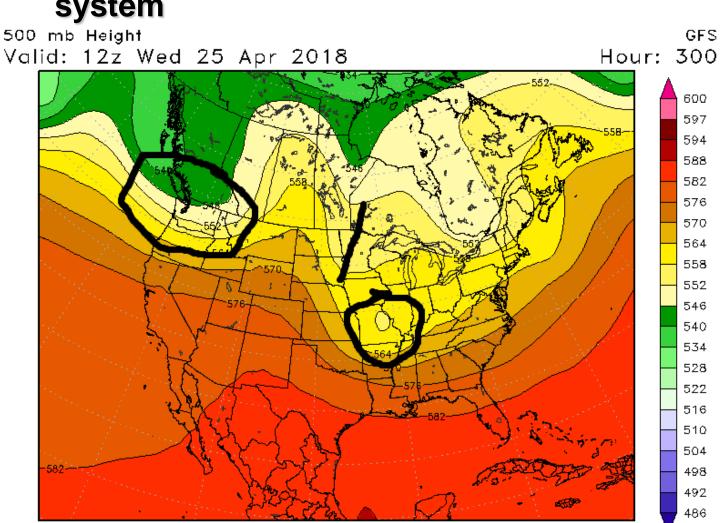
WOW -- this is probably over done... South central NEB 20-24" OF SNOW?

ECMWF 72hr Snowfall [inch] from 18Z19APR2018 to Sun 18Z22APR2018 Model Init: 00Z13APR2018

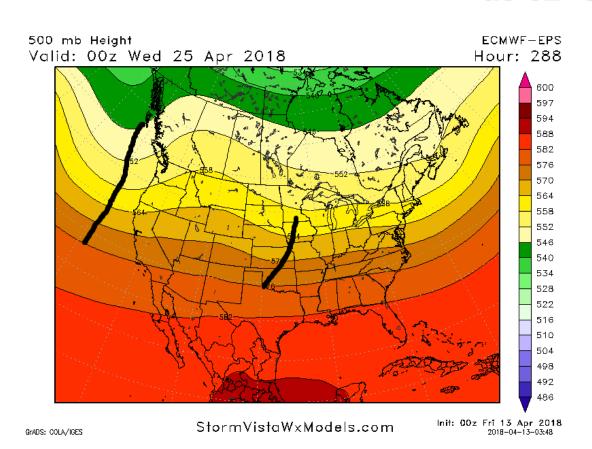
Max 28.50 inch



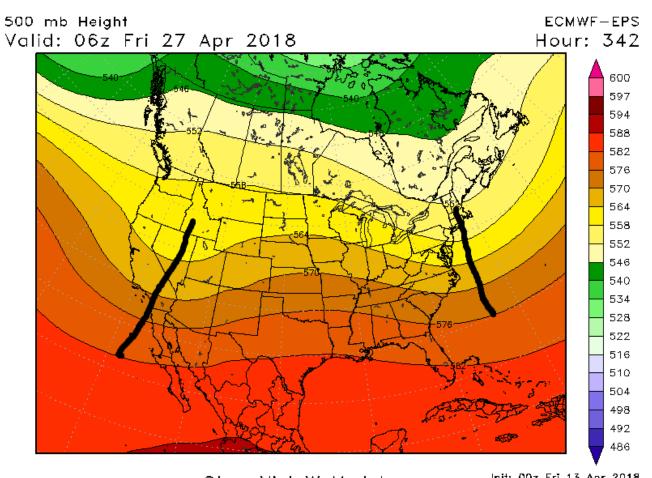
SYSTEM #3 April 24-25
Op GFS very bullish on the development of this system... If correct this would a massive system



EURO ensemble has SOMETHING over central Plains& Midwest APRIL 23-25 but not as impressive as 0z OP GFS



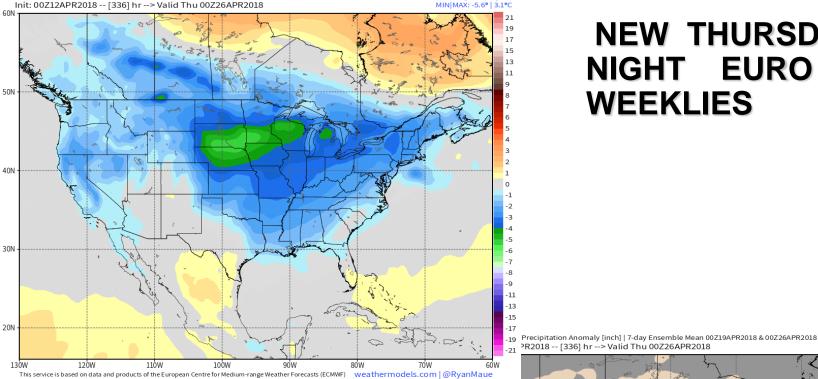
SYSTEM #5 - APRIL 28-29?





Day 7 - Day 14

Day 7 - Day 14



VERY COLD but EURO weeklies DO show above normal rains over KS NEB MO ARK ... Dry over south central Canada and Upper **Plains**

