

Grain futures: Quantifying fundamentals

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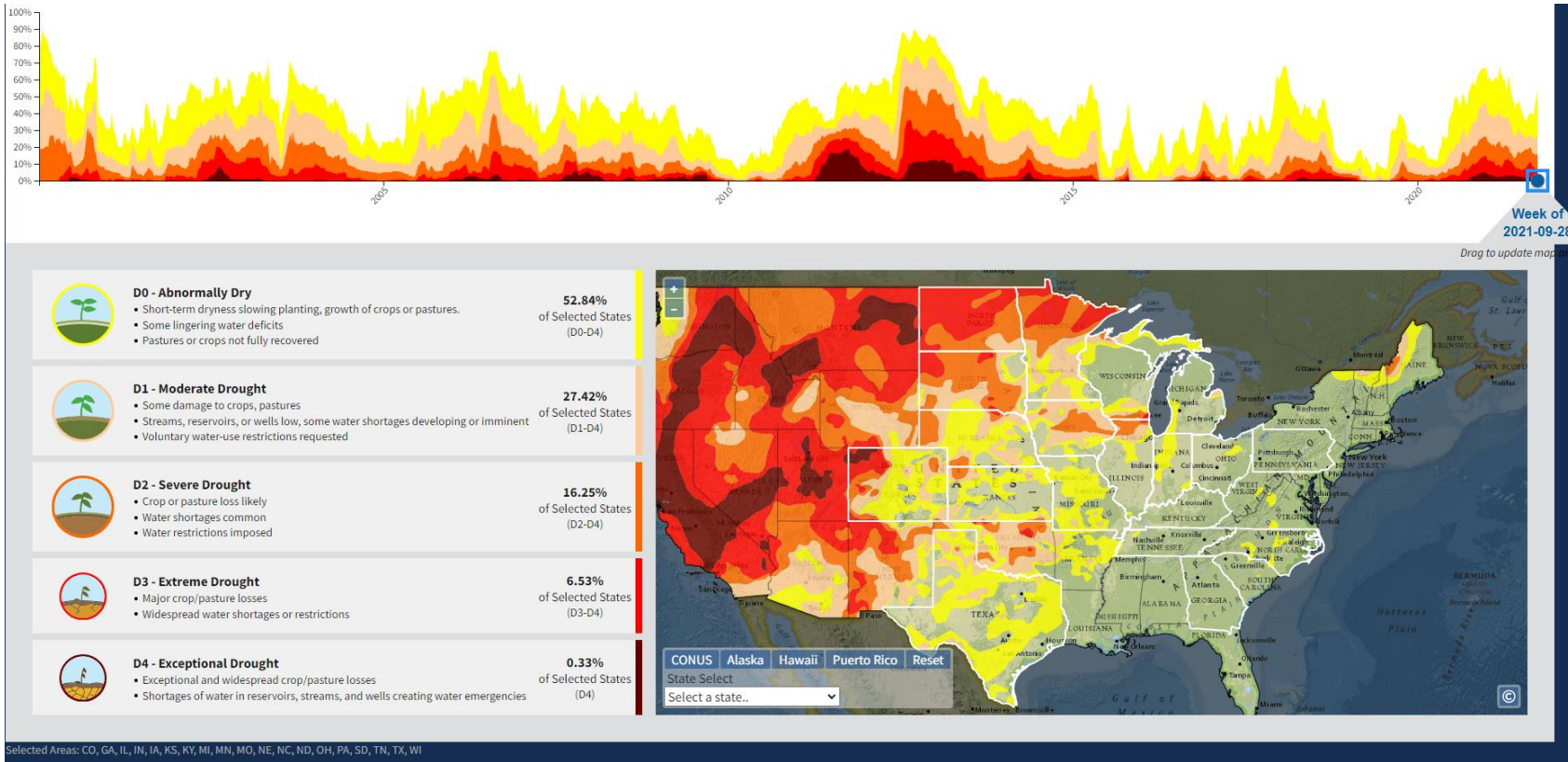
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Drought data and crop conditions - Corn

Historical drought conditions



USDM - Excel

	A	B	C	D	E	F	G
1	ValidStart	D0	D1	D2	D3	D4	None
1126	20/7/2021	36.6	26.1	18.1	7	1.87	63.4
1127	27/7/2021	35.28	25.68	18.37	7.36	1.76	64.72
1128	3/8/2021	36.05	25.41	18.6	8.55	1.23	63.95
1129	10/8/2021	39.25	25.97	18.57	10.04	1.72	60.75
1130	17/8/2021	39.48	26.92	19.64	10.89	1.85	60.52
1131	24/8/2021	40.41	27.8	19.45	10.84	1.53	59.59
1132	31/8/2021	39.81	25.82	16.55	8.63	1.04	60.19
1133	7/9/2021	38.54	24.73	15.99	7.98	0.88	61.46
1134	14/9/2021	44.76	24.94	15.75	7.54	0.78	55.24
1135	21/9/2021	48.74	25.54	15.14	6.15	0.33	51.26
1136	28/9/2021	52.84	27.42	16.25	6.53	0.33	47.16
1137							

USDM

Source: <https://www.drought.gov/>

Droughts in Total % of
land area

D0 - Abnormally Dry

D1 – Moderate
Drought

D2 – Severe Drought

D3 – Extreme Drought

D4 – Exceptional
Drought

Source:

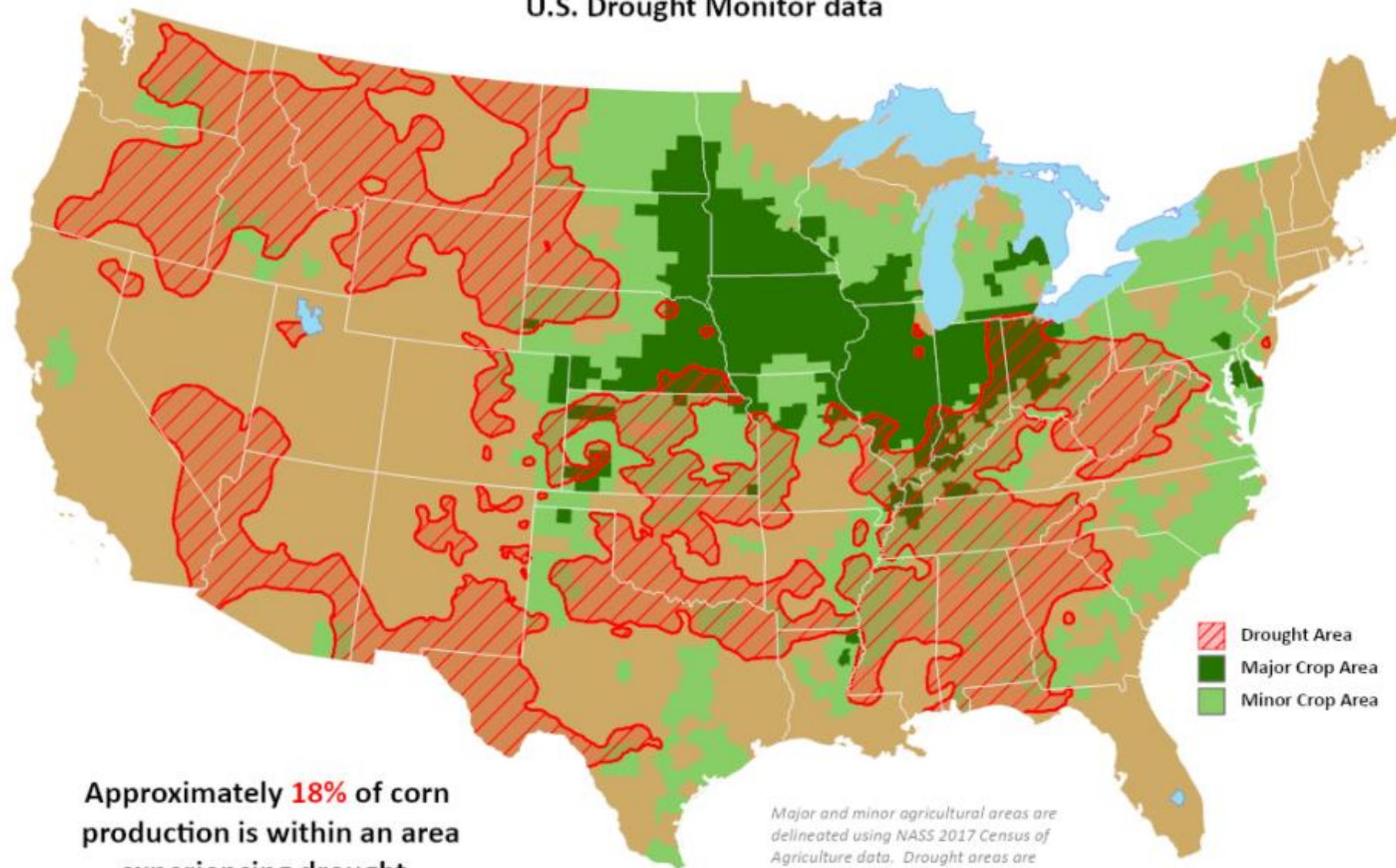
<https://www.drought.gov/>

US Corn Production

Corn Areas in Drought

Reflects **September 10, 2024**

U.S. Drought Monitor data



Approximately **18%** of corn production is within an area experiencing drought.

Major and minor agricultural areas are delineated using NASS 2017 Census of Agriculture data. Drought areas are identified using the U.S. Drought Monitor product.

Source:
<https://www.usda.gov/sites/default/files/documents/AgInDrought.pdf>

US Corn Futures with Droughts and Silking progress

Corn – Droughts in % of land area affected in the Midwest

D0 - Abnormally Dry

D1 – Moderate Drought

D2 – Severe Drought

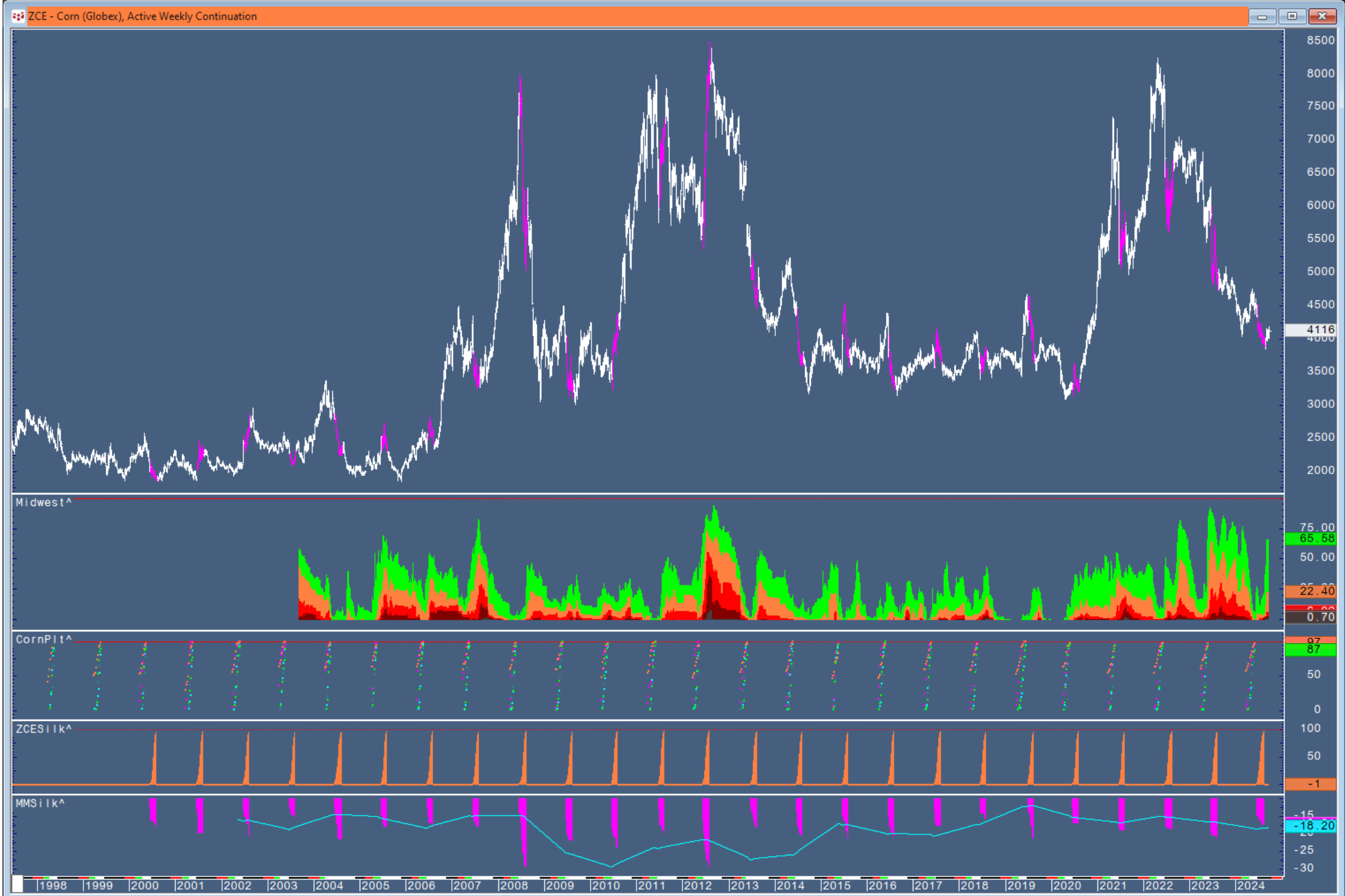
D3 – Extreme Drought

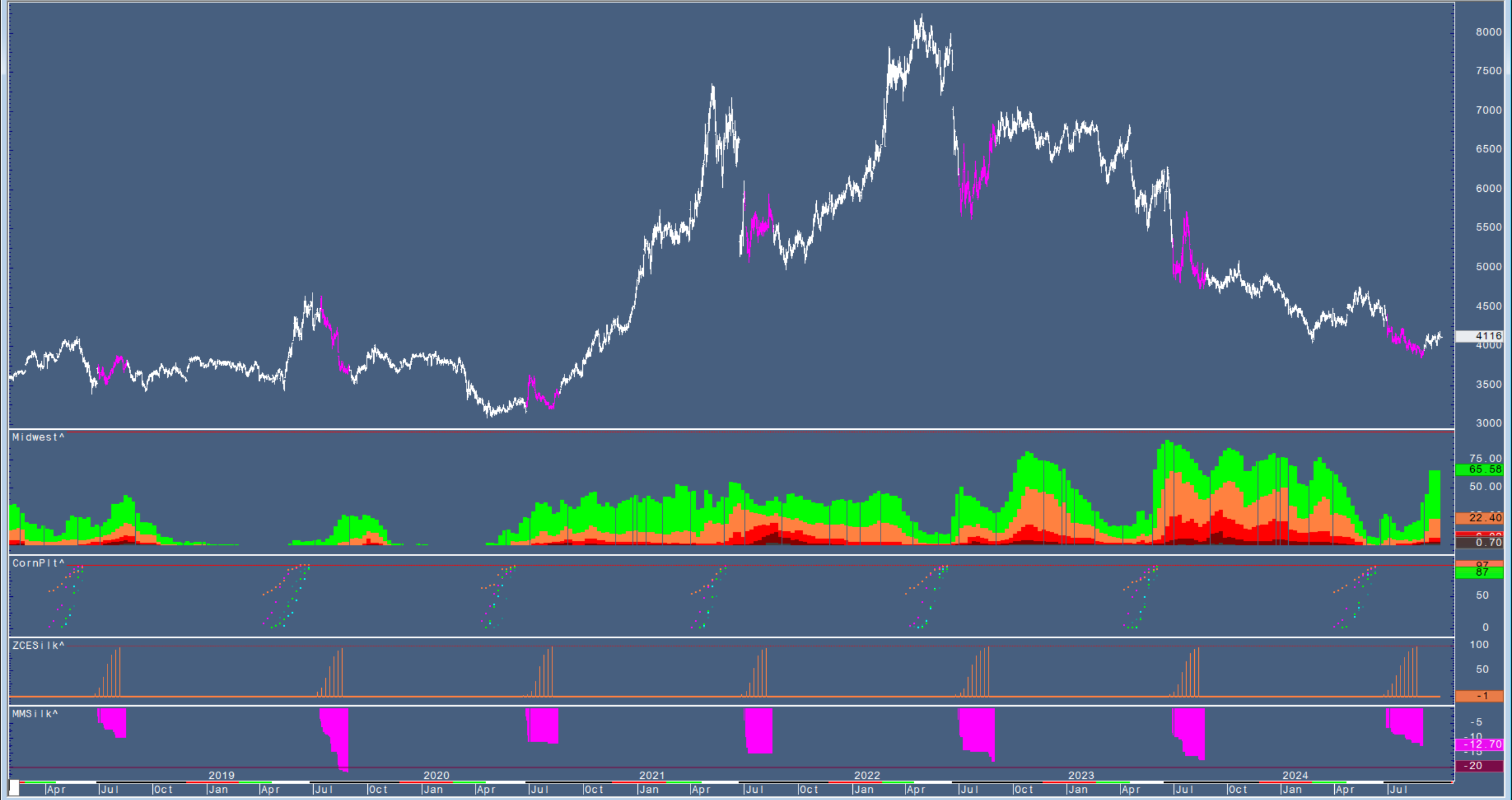
D4 – Exceptional Drought

Sources:

<https://www.usda.gov/sites/default/files/document/s/AgInDrought.pdf>

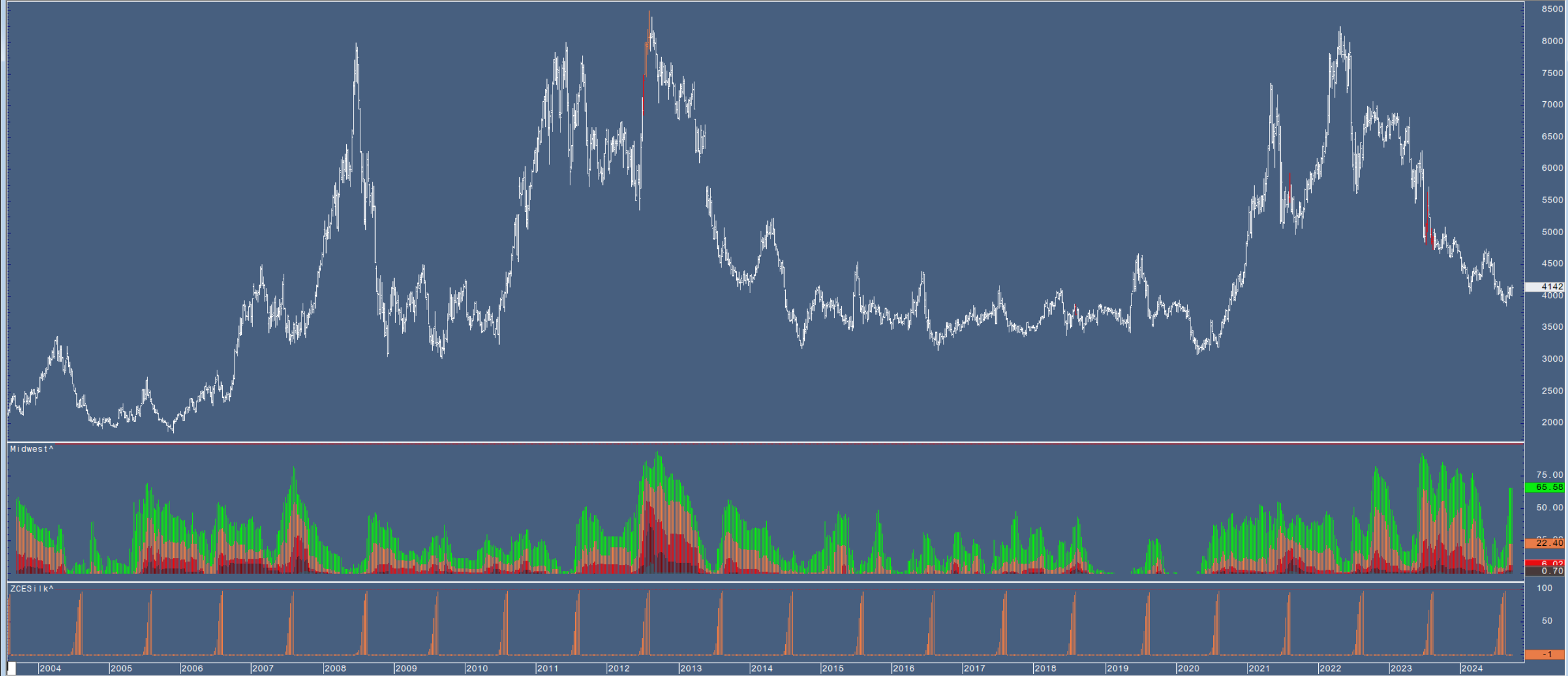
<https://www.drought.gov/>













Drought data and crop conditions - Wheat

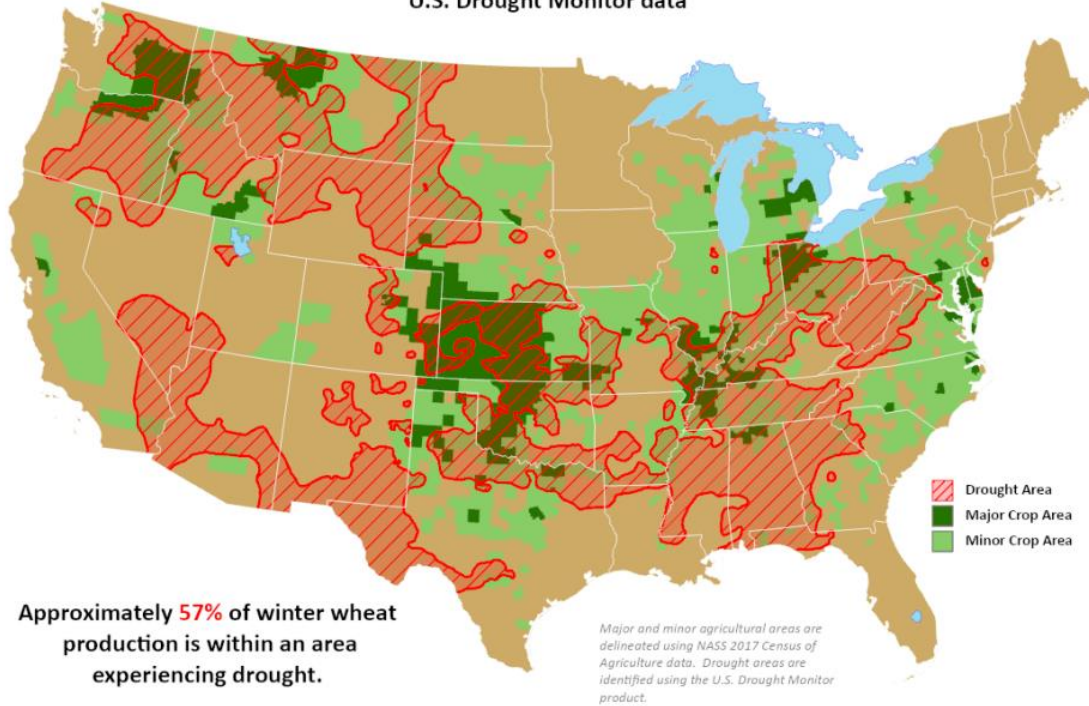
US Wheat Production



This product was prepared by the
USDA Office of the Chief Economist (OCE)
World Agricultural Outlook Board (WAOB)

Winter Wheat Areas in Drought

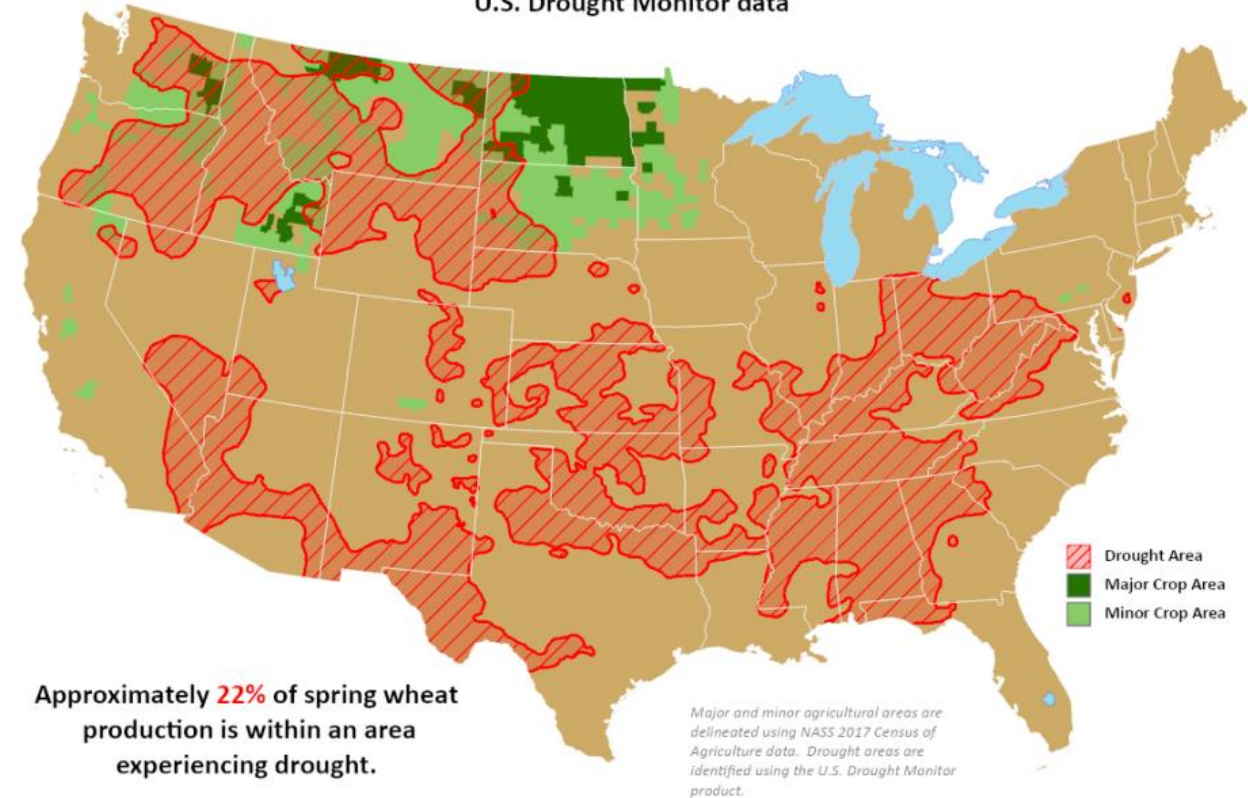
Reflects **September 10, 2024**
U.S. Drought Monitor data



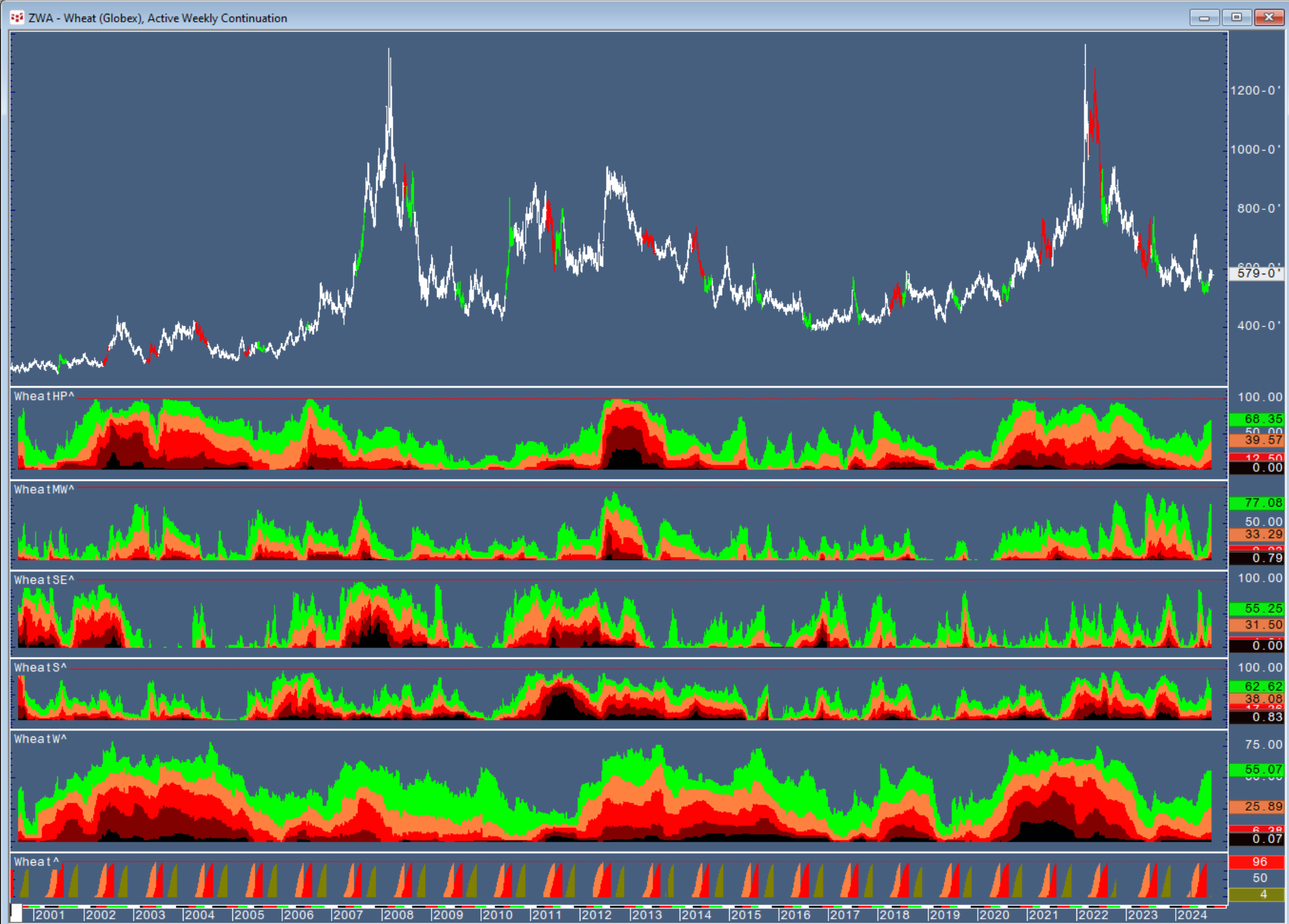
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Spring Wheat Areas in Drought

Reflects **September 10, 2024**
U.S. Drought Monitor data

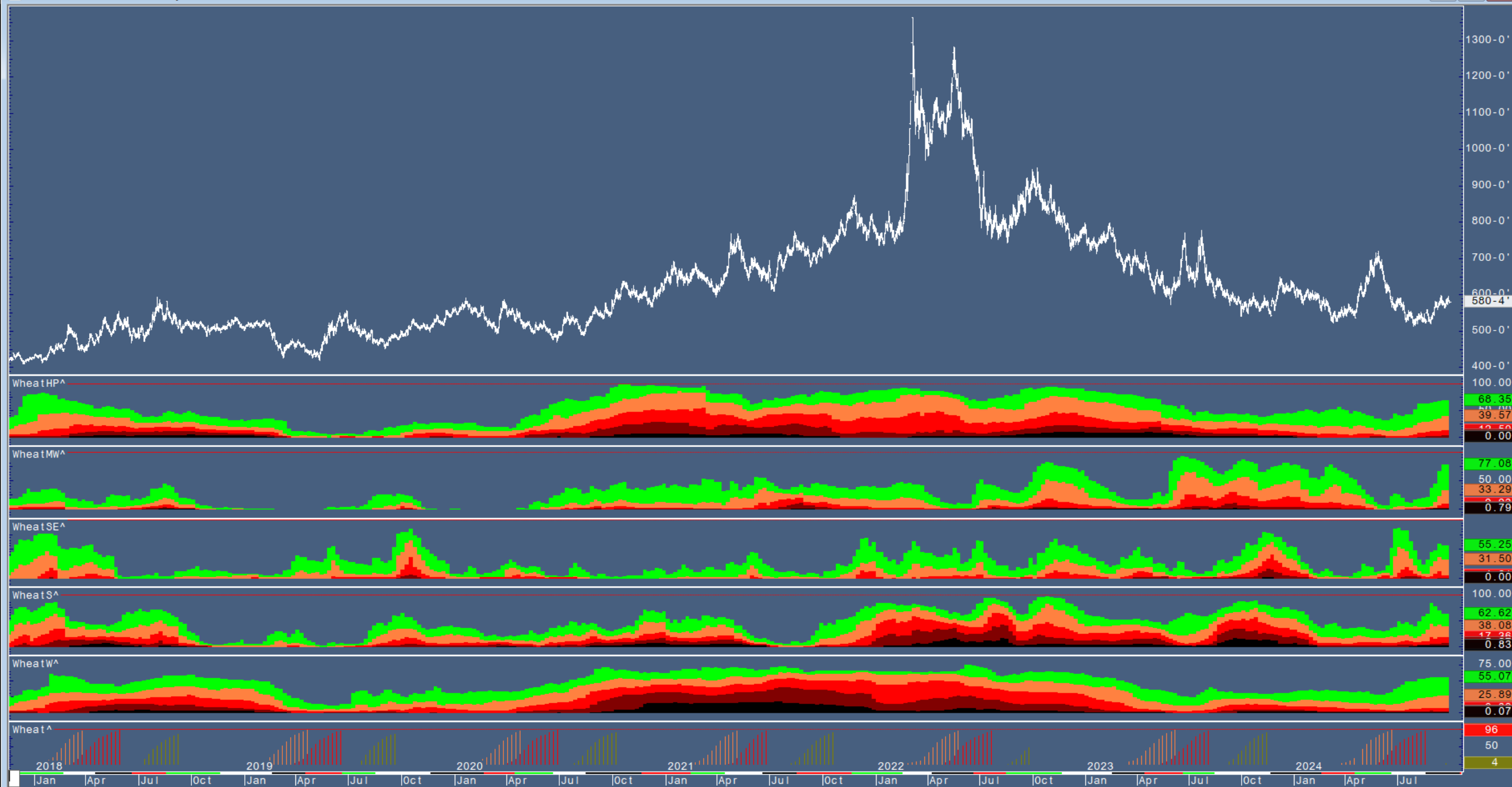


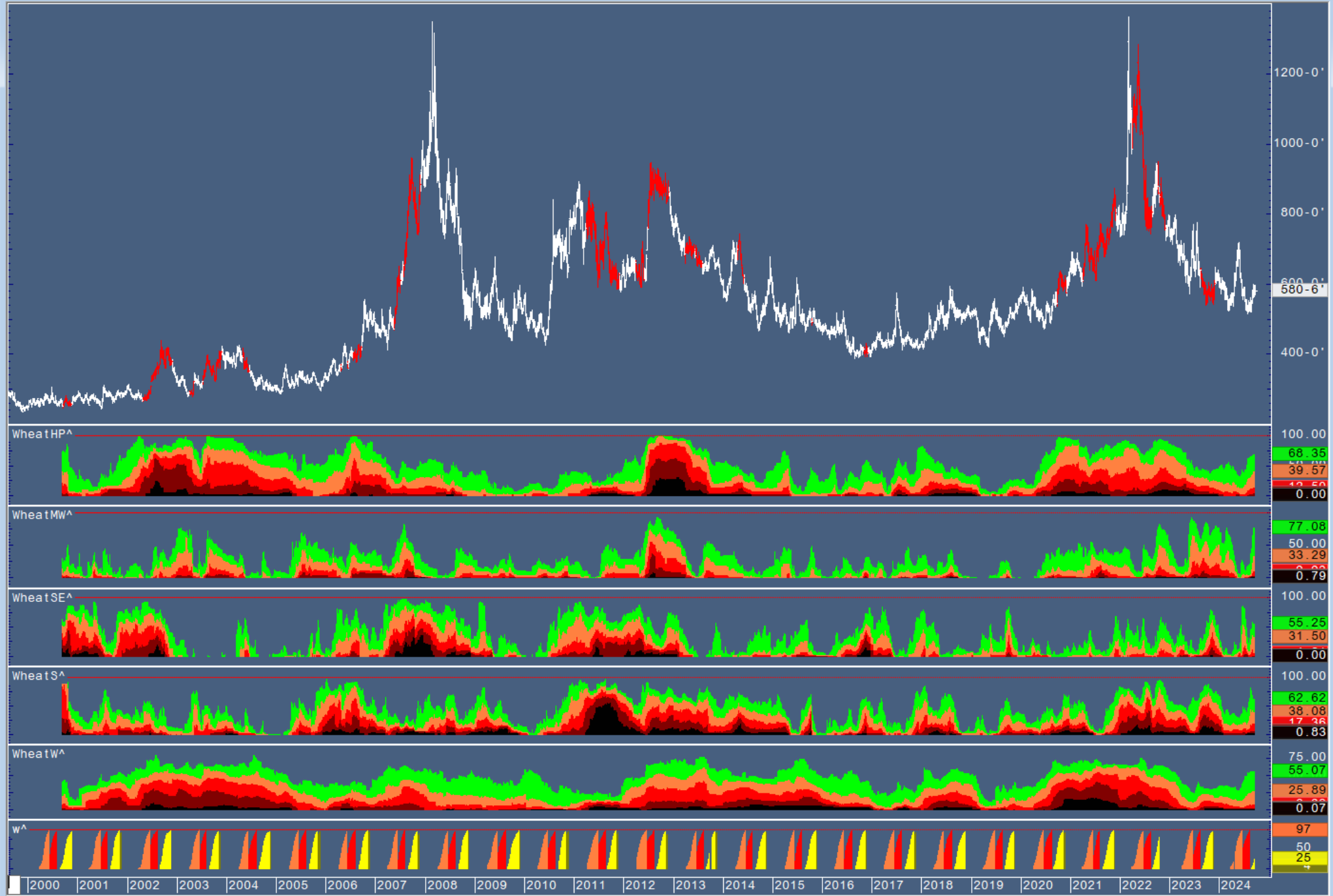
Source: <https://www.usda.gov/sites/default/files/documents/AgInDrought.pdf>

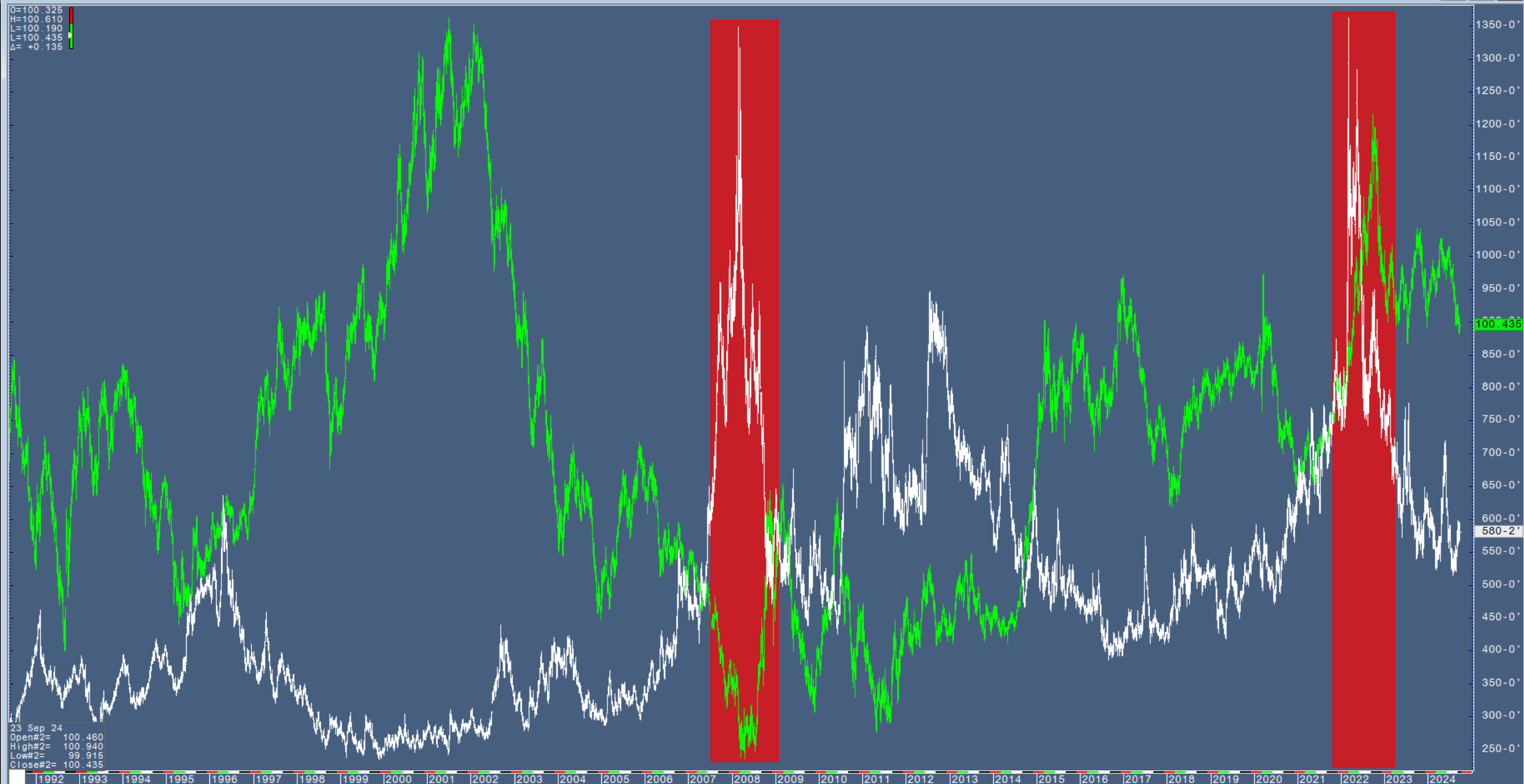


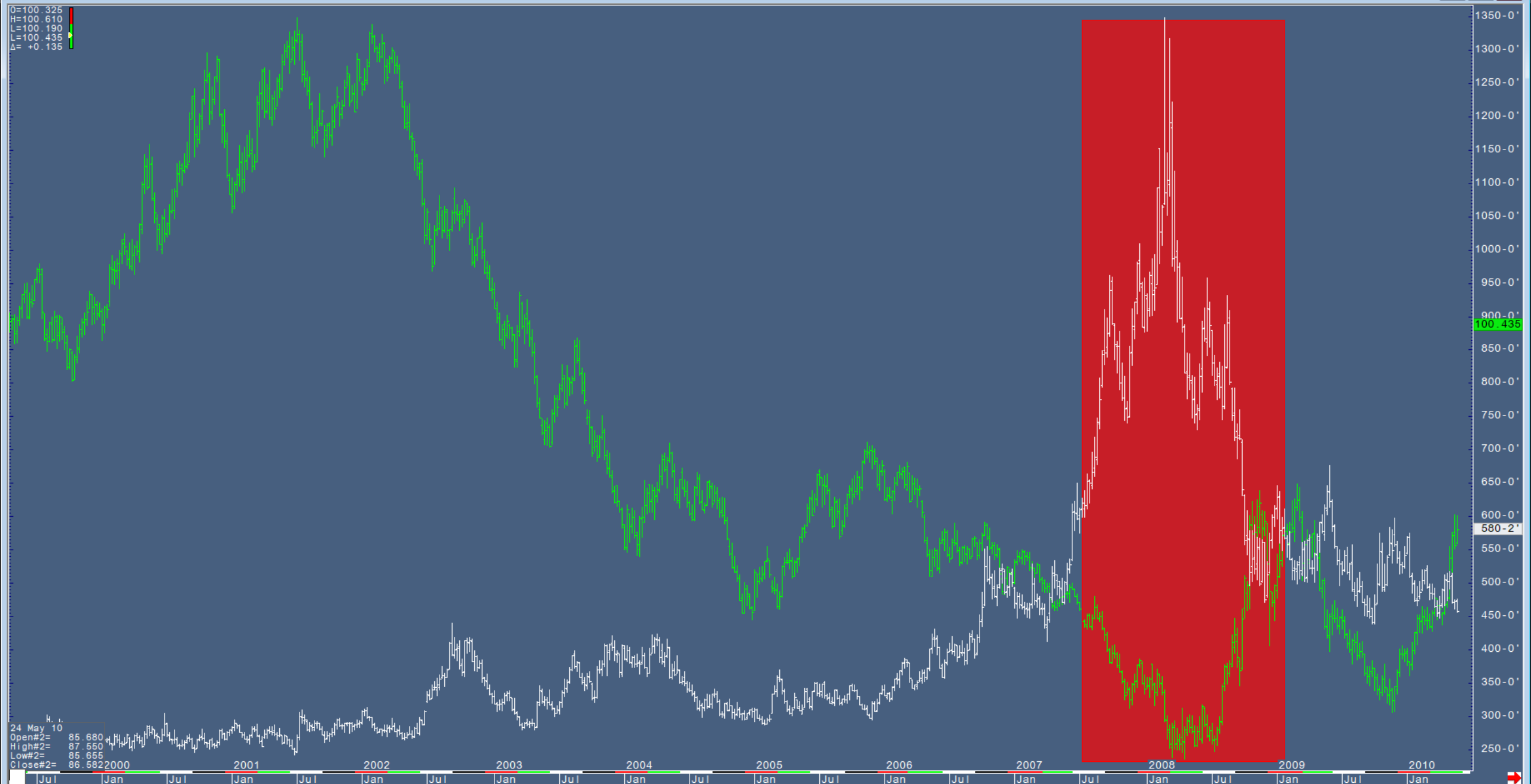
Wheat – Droughts in % of land area affected in all relevant regions

- D0 - Abnormally Dry
- D1 – Moderate Drought
- D2 – Severe Drought
- D3 – Extreme Drought
- D4 – Exceptional Drought







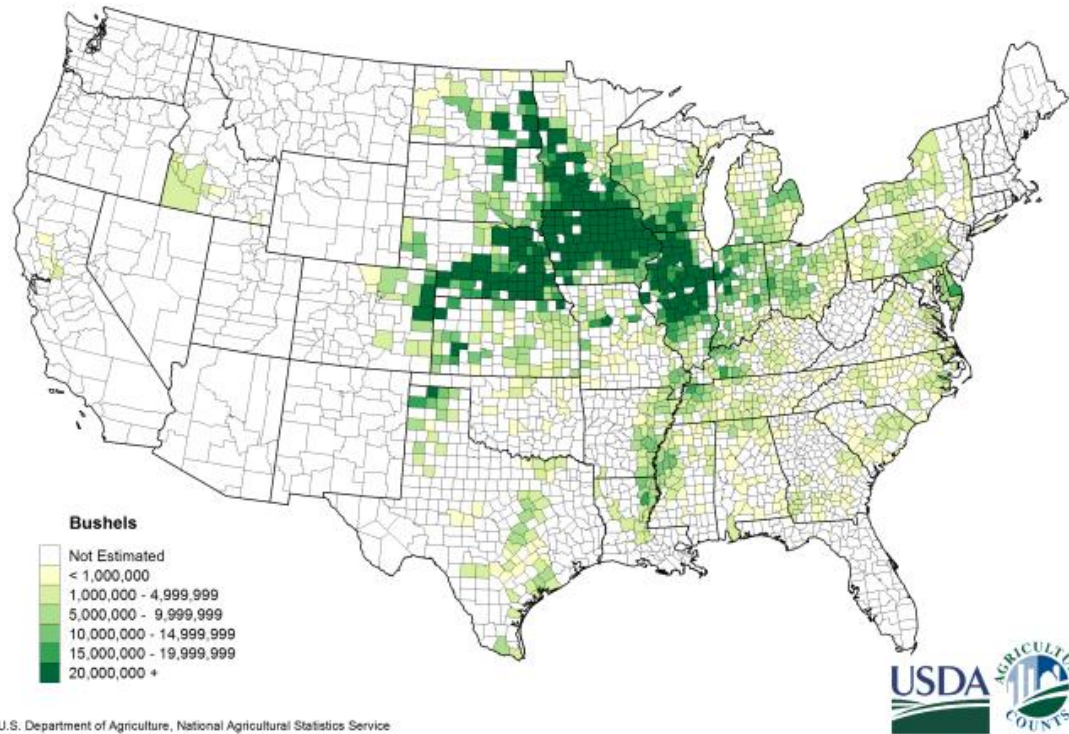




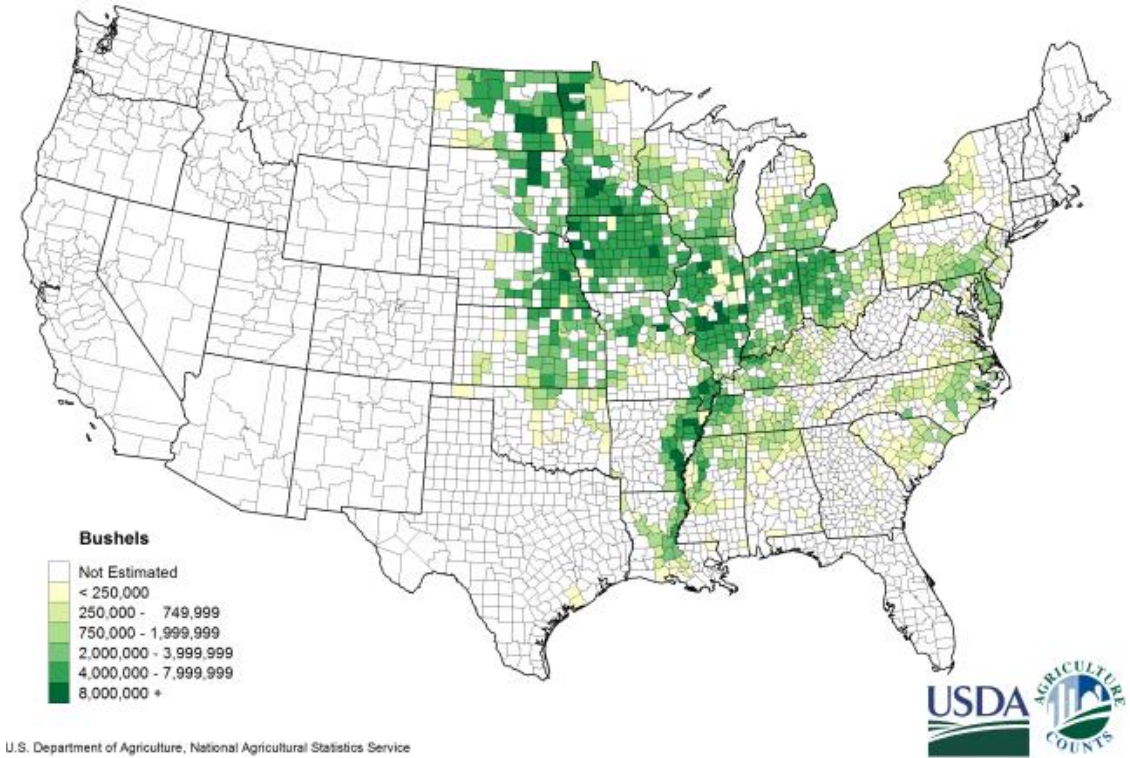
Supply and Use - Soybeans

US Corn and Soybeans Production

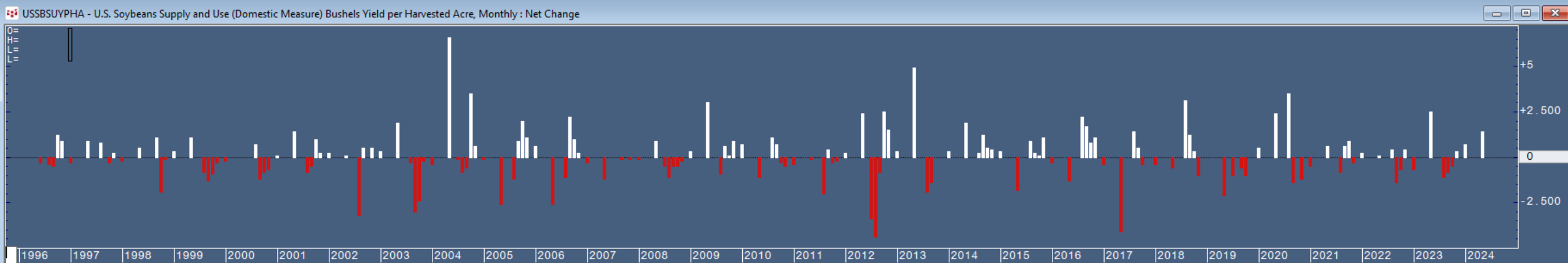
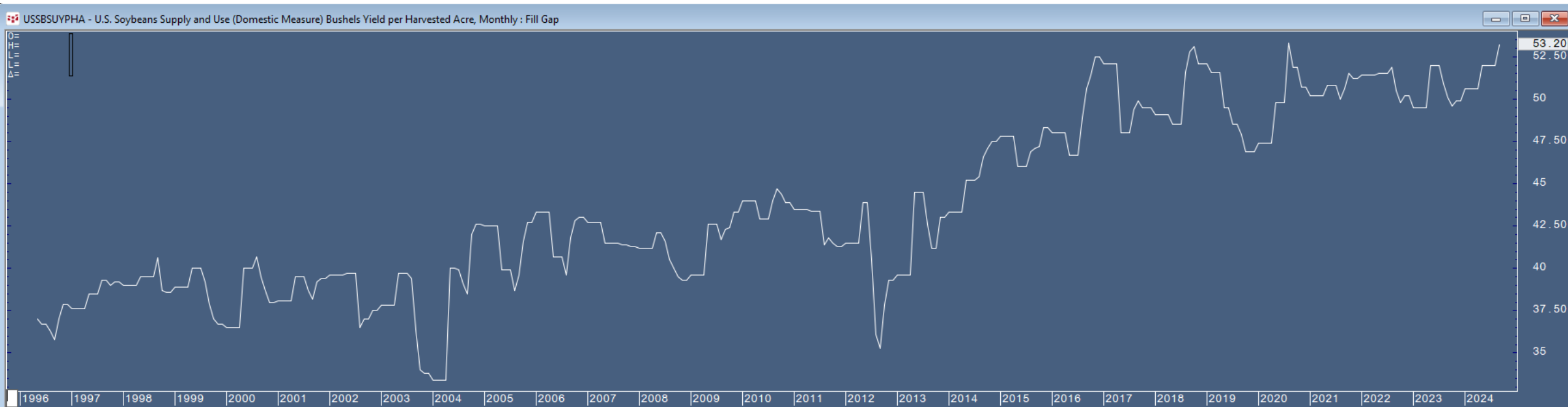
Corn for Grain Production



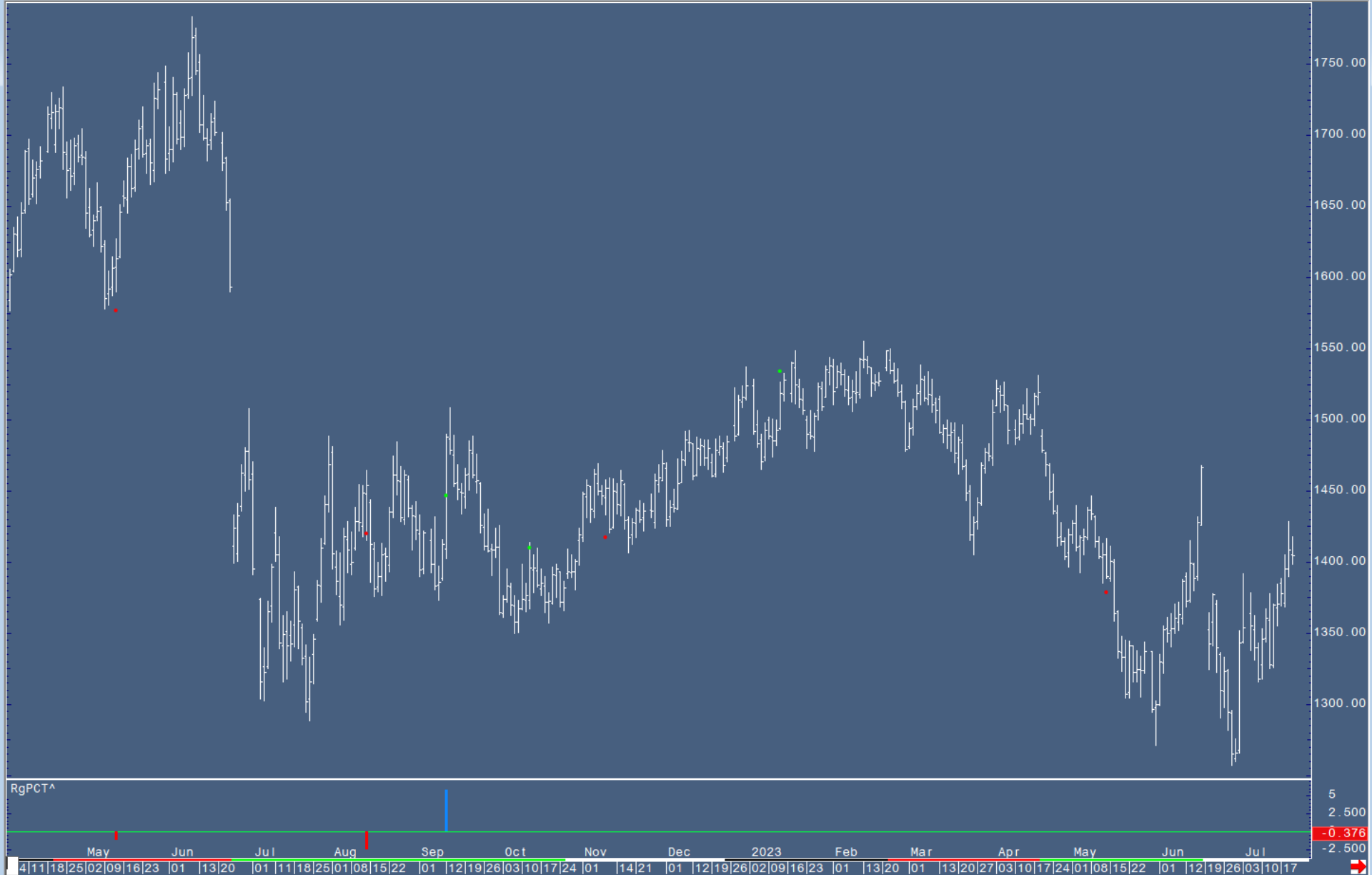
Soybeans Production



Soybeans Supply and Use - Monthly



ZSE - Soybeans (Globex), Active Daily Continuation



Soybeans Supply and Use bushels yield per harvest acre in net change term

(High - Open) on negative supply data
(Open - Low) on positive supply data



To quantify the moves generated by the fundamental data release we average out the upward moves created by a “lower supply yield” data release and apply that value to the day’s open and do the same process for the downward moves.

Soybeans Active Daily Continuation





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