

Harvest Summary of HRW September 9, 2022

By Mark Hodges, Executive Director, Plains Grains, Inc.

<u>State</u>	<u>Percent Complete:</u>
○ Texas	100%
○ Oklahoma	100%
○ Kansas	100%
○ Colorado	100%
○ Nebraska	100%
○ South Dakota	100%
○ Montana	100%
○ Washington	99%
○ Oregon	100%
○ Idaho	99%
○ Wyoming	100%

All 2022 HRW samples across all states are now in the lab and milling continues. Next week will mark the end of weekly reports with a final report to be issued when all testing is complete (approximately the last week of this month). All states are now 99% to 100% complete with harvest. There are now 524 samples in lab originating out of 11 states with many in multiple stages of evaluation (mill/dough/bake test). Kernel data before weighting factors for production indicates overall dockage is still at 0.5, TW, 60.7 (significantly above 60.3 2021). Defective kernel totals are a contrast to last year (2.1 vs. 1.7% in 2021). Overall protein content avg. 12.7 (dropped slightly as harvest progressed, but still significantly higher vs. 12.0 in 2021), and 11.9 in 2020. Thousand Kernel Weights are averaging 30.8 g (has increased as harvest moved northwest as has kernel diameter (2.59 mm vs. 2.58 2021). Hardness average is 65.2 vs. 61.1 2021. FN is now at 347 vs 368 in 2021. Again, to emphasize that these are all results based on straight averages **before production weighting factors have been applied.**

Composites: There are now 524 samples making up 75 composited samples in the lab representing (OK, TX, KS, NE, SD, WY, CO, MT, WA, OR, ID). Current flour data: farinograph absorption 58.8, stability 8.77 mins vs. 9.46 in 2021. Breakdown 10.33 mins. Mixograph 64.3% water absorption vs. 62.7% in 2021. Mix time 383 vs. 372 in 2021. Tolerances 3 (on 0-6 scale). Loaf volume avg. 922 CC vs. 889 CC 2021. This data represent straight averages as was stated above with no weighting factors applied for production (so slight changes can be expected in final numbers).

Below the data are the number of samples now tested/total projected for each testing parameter.

September 2, 2022

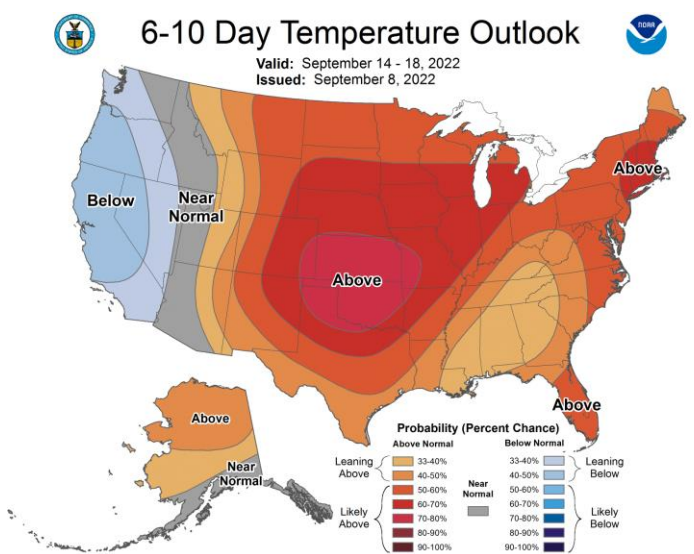
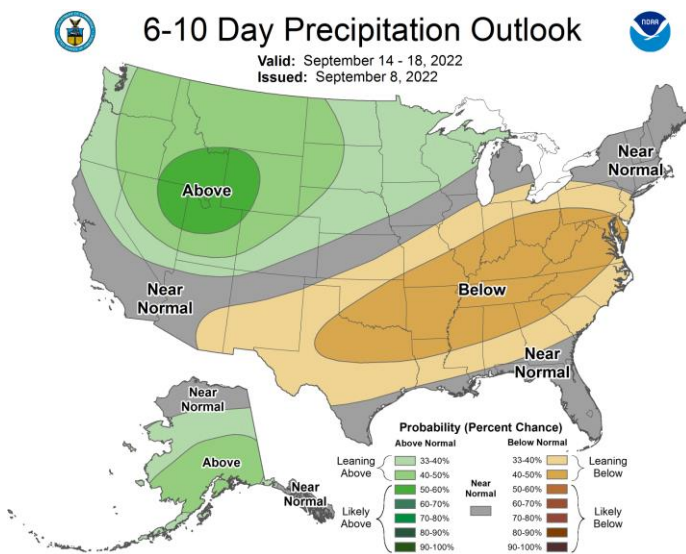
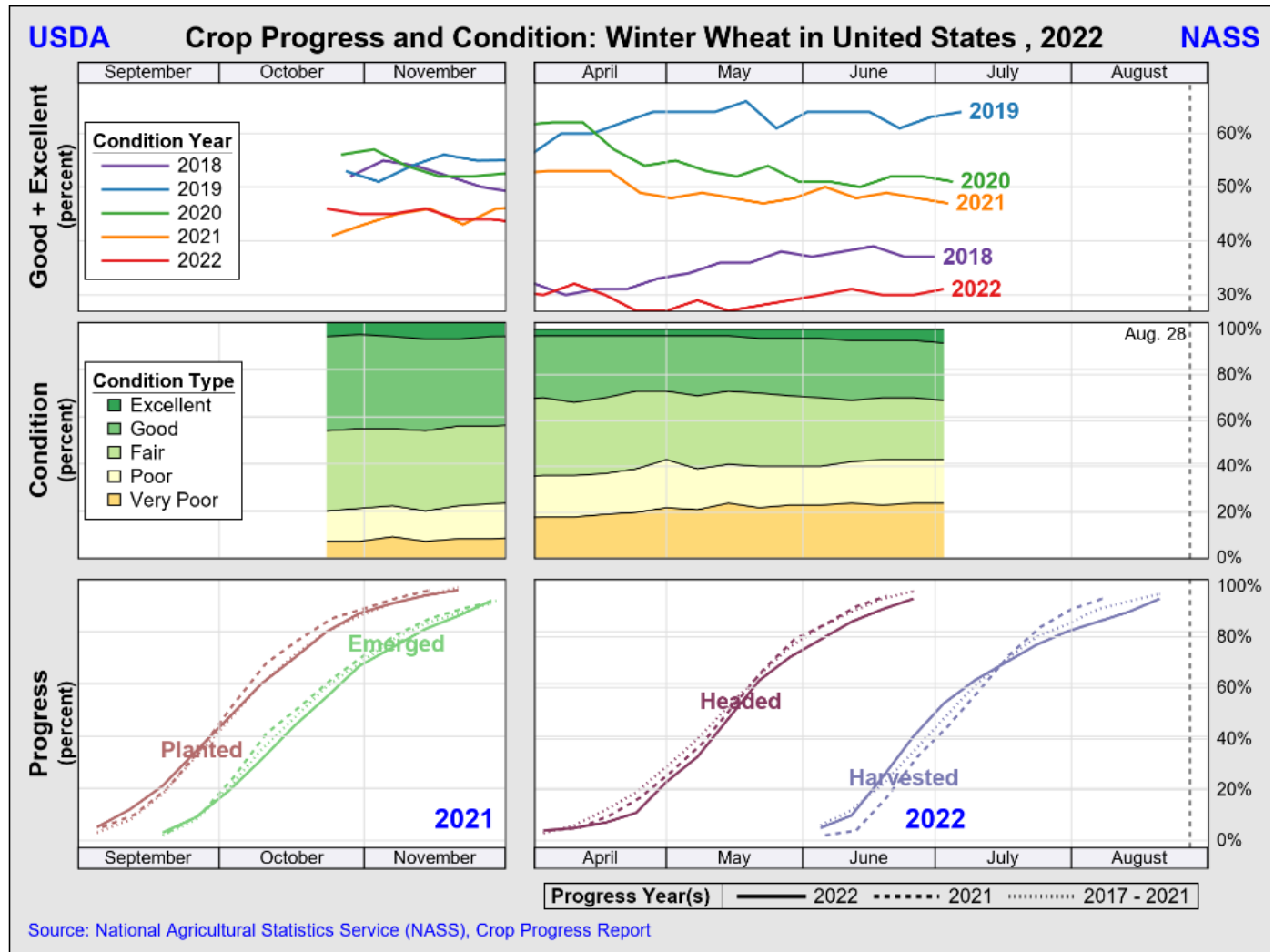
Tst	Exp	MST	Pro %	DKG	TKW	FN	Grade	Test Weight	FM	DMG	S&B	DEF
460**	520	10.7	12.9	0.5	30.3	339	HRW 1	60.6 79.6	0.2	0.6	1.0	1.8
*All 457 samples are in various stages of testing.												
N=		460/520	460/520	460/520	460/520	460/520		460/520 460/520	460/520	460/520	460/520	460/520

September 9, 2022

Tst	Exp	MST	Pro %	DKG	TKW	FN	Grade	Test Weight	FM	DMG	S&B	DEF
524**	520	10.4	12.7	0.5	30.8	347	HRW 1	60.7 79.8	0.2	0.8	1.1	2.1
*All 458 samples are in various stages of testing.												
N=		458/520	458/520	458/520	458/520	458/520		458/520 458/520	458/520	458/520	458/520	458/520

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¹ Maps and Graphs on following pages:



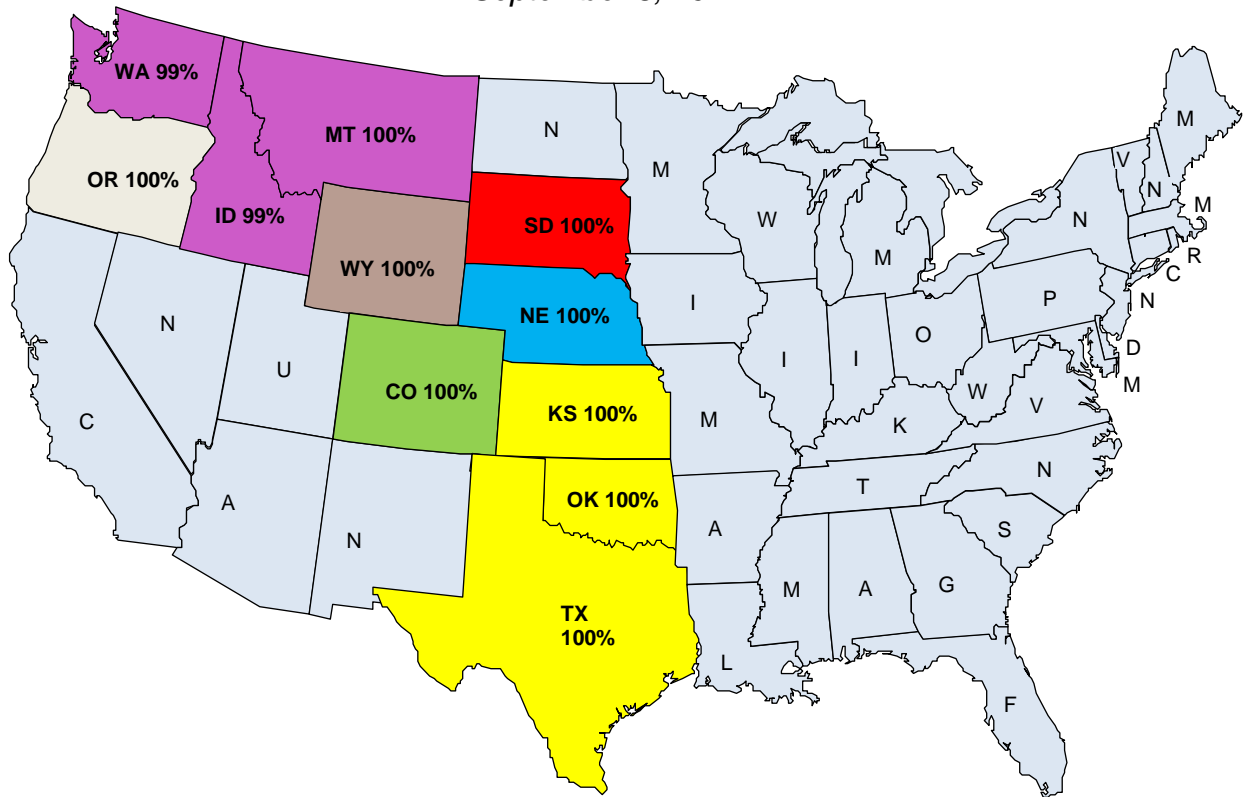
September 8, 2022

1. **Texas** – NASS 3% planted vs. 1% avg. Majority for grazing, recent moisture. N. state moisture forecast.
2. **Colorado** – Spotty moisture. SE state abnormally dry, severe drought NE state. Cool temps forecast.
3. **Nebraska** – Planting in N. Panhandle. USDA 1% vs. 2% avg. Limited spotty rains. Rest of state dry. Expect planting excel next week. Higher than avg. temps.
4. **Minnesota** – 3/4s harvested, progressing rapidly. Yields above avg. Good quality, protein. Very optimistic. 14% avg. pro.
5. **North Dakota** – 62% harvested Monday. Later planted some pockets of concerns (hot/dry August). Slightly lower protein (.5/1% below avg.) but high yields. Durum est. 50% harvested. Some quality concerns, lower pro/vitreous. Early samples in SW state look good.
6. **Montana** – Above avg. temps. Durum 81% harvested. Spring 87%. Winter 4% planted. Cool temps forecast. Spring – high pro (16%), TW 58 lb, some drought qualities (higher shrunken/broken). Winter 13% pro avg. 62 lb TW, no damages.
7. **Idaho** – Hot/dry, slow finish to harvest. NASS winter 91% harvested, 1% planted. Spring 74% harvested. Good quality, some low FN in areas with additional rainfall. Good yields. Below avg. TW.
8. **Washington** – 77% harvested spring, winter 93% harvested. Winding down, weather holding. NASS 7% winter planted. Ag survey: SW pro 9.94%, club 10.46% pro. HRW, 11.45% , HRS 13.98%. Cool temps at night.
9. **Oregon** – Harvest mostly complete. Starting winter planting. Improved subsoil/topsoil moisture. Good quantity/quality.
10. **USDA/ARS** – 460 samples. 75 composites total. Flour data – farinograph absorption 58.8, stability 8.77 mins vs. 9.46 2021. Breakdown 10.33 mins. Mixograph 64.3% water absorption vs. 62.7 2021. Mix time 383 vs. 372. Tolerances 3 (on 0-6 scale). Loaf volume avg. 922 CC vs. 889 CC 2021. 66 samples from PNW, avg pro 11.2%.
11. **WMC** – 30 SW samples: pro 9.4%, sound FN, everything else looks good.
12. **Brian Walker** – HRW milling: very hot still so adjusting the mills, impacts on milling yield. Areas with humidity hard to regulate/sticky on the mill.

Maps on next page

Percent HRW Harvested by State

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United States: Winter Wheat Production

