U.S. WHEAT ASSOCIATES
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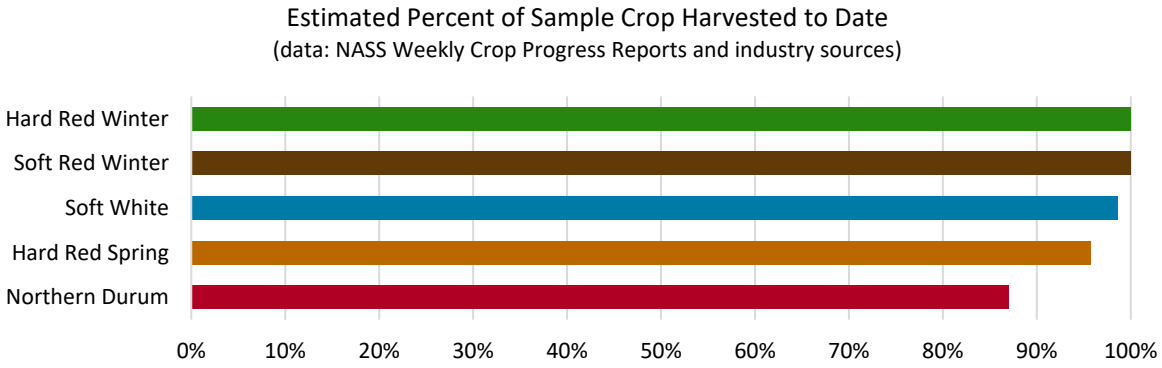
WEEKLY HARVEST REPORT – September 23, 2022

This is the final weekly report for SW harvest and indicates another No.1 SW wheat crop in 2022. HRS harvest is winding down and this year's crop currently grades at U.S. No. 1 Northern Spring. Northern durum is almost 90% harvested and currently grades at U.S. No. 1 Hard Amber Durum.



HARD RED WINTER

The final 2022 HRW weekly harvest report was issued on September 16 and can be found online at https://www.uswheat.org/wp-content/uploads/HR-220916.pdf.

WHEAT DATA

	Samples		Moisture	Protein	Dry Basis Protein	Dockage	TKW	FN
	Tested	Expected	%	%	%	%	g	sec
2022 Final	524	520	10.7	12.9	14.7	0.5	30.3	339
2021 Final	522	500	11.2	11.9	13.5	0.5	30.5	372
5-year Avg	483	498	11.1	11.8	13.4	0.5	31.2	374

GRADE FACTORS

Grade	Test Weight		FM	Damage	S&B	Defects
	lb/bu	kg/hl	%	%	%	%
1 HRW	60.6	79.6	0.2	0.6	1.0	1.8
1 HRW	60.4	79.5	0.3	2.1	0.8	1.7
1 HRW	60.8	79.9	0.2	0.6	0.9	1.4

* This number represented the number of samples that have arrived at the laboratory for testing, not all of which have had testing completed.
Note: HRW averages in the weekly harvest report are not weighted for production. Results shown represent tested samples collected to date. States sampled: Colorado, Idaho, Kansas, Montana, Nebraska, Oklahoma, Oregon, South Dakota, Texas, Washington, Wyoming.

Data Source: Plains Grains, Inc.

SOFT RED WINTER

The final 2022 SRW weekly harvest report was issued on August 5 and can be found online at https://www.uswheat.org/wp-content/uploads/HR-220805.pdf.

WHEAT DATA

	Samples		Moisture	Protein	Dry Basis Protein	Dockage	TKW	FN
	Tested	Expected	%	%	%	%	g	sec
2022 Final	230	300	12.6	9.6	10.9	0.4	33.1	328
2021 Final	263	300	13.6	9.3	10.5	0.3	34.4	297
5-year Avg	250	294	13.3	9.5	10.8	0.4	32.8	309

GRADE FACTORS

Grade	Test Weight		FM	Damage	S&B	Defects
	lb/bu	kg/hl	%	%	%	%
2 SRW	59.9	78.8	0.1	0.2	0.5	0.8
2 SRW	59.7	78.6	0.1	0.3	0.5	0.9
2 SRW	58.9	77.5	0.1	0.5	0.6	1.2

Note: Weekly harvest report averages are simple averages of all samples tested and have not been weighted by the estimated production for each of the 18 reporting areas. States sampled: Alabama, Arkansas, Illinois, Indiana, Kentucky, Missouri, Ohio, Tennessee, Maryland, North Carolina, Virginia.

Data Source: Great Plains Analytical Laboratory

Legend:
Protein = 12% Moisture Basis
TKW = 1000 Kernel Weight
FN = Falling Number
FM = Foreign Material
S&B = Shrunken and Broken
n/a = not available

SOFT WHITE

- **Wheat Data:** This week, the remaining samples arrived at the lab for testing with no change in overall wheat quality. When compared to last year, test weight and 1000 kernel weight values are higher; protein and total defects are lower; and falling number and moisture are similar. These traits are all positive and indicate an improved quality crop over 2021.

This is the final SW weekly report for the 2022 harvest.

WHEAT DATA

	Samples		Moisture	Protein	Dry Basis Protein	Dockage	TKW	FN
	Tested	Expected	%	%	%	%	g	sec
This Week	404	390	8.9	9.5	10.7	0.5	34.8	339
Last Week	382	390	8.9	9.4	10.6	0.5	34.7	339
2021 Final	375	390	8.8	11.3	12.3	0.5	29.0	344
5-year Avg	438	392	9.1	10.0	11.3	0.5	34.6	327

GRADE FACTORS

Grade	Test Weight		FM	Damage	S&B	Defects
	lb/bu	kg/hl	%	%	%	%
1 SW	61.0	80.3	0.1	0.0	0.5	0.6
1 SW	61.0	80.3	0.1	0.0	0.5	0.6
2 SW	59.3	77.9	0.0	0.1	1.0	1.1
1 SW	61.1	80.3	0.0	0.1	0.6	0.7

Note: SW averages in the weekly harvest report are weighted for production. Results shown represent tested samples collected to date. States sampled: Idaho, Oregon, Washington.

Data Source: Wheat Marketing Center

HARD RED SPRING

- **Crop Progress:** The 2022 HRS harvest is nearly complete with less than 5% of the crop remaining.
- **Crop Conditions:** HRS conditions remain stable with local sources reporting overall good quality and above average yields with pockets of low yielding fields in drought areas.
- **Wheat Data:** This week's data come from 81% of expected samples. Average protein remains 14.4% (12% mb). Test weight held steady at 61.7 lb/bu (81.1 kg/hl), higher than last year's final average. The falling number average is 418 seconds and indicates a sound crop to date. Average vitreous kernel content held steady at 72%, making the current average grade as U.S. No. 1 Northern Spring (1 NS).
- **Weather:** Seasonal temperatures with limited chance for rain are forecast.

WHEAT DATA

	Samples		Moisture	Protein	Dry Basis Protein	Dockage	TKW	FN
	Tested	Expected	%	%	%	%	g	sec
This Week	368	451	11.9	14.4	16.4	0.8	31.0	418
Last Week	312	451	11.9	14.4	16.4	0.7	30.7	422
2021 Final	481	451	11.6	15.4	17.5	0.6	29.7	425
5-year Avg	474	457	12.0	14.6	16.6	0.6	30.8	375

GRADE FACTORS

Grade	Test Weight		FM	Damage	S&B	Defects	DHV
	lb/bu	kg/hl	%	%	%	%	%
1 NS	61.7	81.1	0.0	0.2	0.8	1.0	72
1 NS	61.6	81.0	0.0	0.2	0.8	1.0	71
1 DNS	61.1	80.4	0.0	0.1	1.0	1.1	86
1 NS	61.5	80.9	0.0	0.3	0.9	1.2	73

Note: HRS averages in the weekly harvest report are not weighted for production. Results shown represent tested samples collected to date. States sampled: Minnesota, Montana, North Dakota, South Dakota.

Data source: North Dakota State University, Hard Red Spring Wheat Quality Laboratory

NORTHERN DURUM

- **Crop Progress:** The remaining northern durum fields are being harvested in Montana. In North Dakota, the crop is 77% harvested, well behind last year and the 5-year average.
- **Crop Conditions:** Local North Dakota sources report good yields and quality but below average protein yields.
- **Wheat Data:** This week's unweighted quality data reflects 78% of samples from Montana and 52% from North Dakota with minimal to no change from last week. The crop currently grades a U.S. No. 1 Hard Amber Durum.
- **Weather:** Like HRS, seasonal temperatures with limited chance for rain are forecast.

Legend: Protein = 12% Moisture Basis; TKW = 1000 Kernel Weight; FN = Falling Number; FM = Foreign Material; S&B = Shrunken and Broken; n/a = not available

WHEAT DATA	Samples		Moisture	Protein	Dry Basis Protein	Dockage	TKW	FN
	Tested	Expected	%	%	%	%	g	sec
This Week	74	112	10.6	14.3	16.3	1.3	38.6	447
Last Week	56	112	10.5	14.5	16.5	1.5	38.3	449
2021 Final	121	129	10.8	15.5	17.6	1.3	42.8	421
5-year Avg	111	117	11.4	13.9	15.8	1.1	41.6	394

GRADE FACTORS	Test Weight		FM	Damage	S&B	Defects	HVAC
Grade	lb/bu	kg/hl	%	%	%	%	%
1 HAD	61.2	79.7	0.0	0.2	0.8	1.0	93
1 HAD	61.1	79.6	0.0	0.2	0.8	1.0	93
1 HAD	60.2	78.4	0.1	0.4	1.0	1.4	88
1 HAD	61.0	79.4	0.0	0.4	0.8	1.3	81

Note: Northern durum averages in the weekly harvest report are not weighted for production. States sampled: Montana, North Dakota.

Data source: North Dakota State University, Durum Wheat Quality Laboratory

GENERAL CROP CONDITION DEFINITIONS

- **Very Poor** – Extreme degree of loss to yield potential, complete or near crop failure.
- **Poor** – Heavy degree of loss of yield potential which can be caused by excess soil moisture, drought, disease, etc.
- **Fair** – Less than normal crop condition. Yield loss is a possibility, but the extent is unknown.
- **Good** – Yield prospects are normal or above normal. Moisture levels are adequate with only light disease and insect damage.
- **Excellent** – Yield prospects are above normal, and crops are experiencing little or no stress.

TOP AND SUB-SOIL MOISTURE DEFINITIONS (WITH TOP-SOIL DEFINED AS THE TOP 6 INCHES):

- **Very Short** – Soil moisture supplies are significantly less than what is required for normal plant development. Growth has been stopped or nearly so and plants are showing visible signs of moisture stress. Under these conditions, plants will quickly suffer irreparable damage.
- **Short** – Soil dry. Seed germination and/or normal crop growth and development would be curtailed.
- **Adequate** – Soil moist. Seed germination and/or crop growth and development would be normal or unhindered.
- **Surplus** – Soil wet. Fields may be muddy and will generally be unable to absorb additional moisture. Young developing crops may be yellowing from excess moisture.

Source: https://www.nass.usda.gov/Publications/National_Crop_Progress/Terms_and_Definitions/index.php#percents

Legend: Protein = 12% Moisture Basis; TKW = 1000 Kernel Weight; FN = Falling Number; FM = Foreign Material; S&B = Shrunken and Broken; n/a = not available