U.S. WHEAT ASSOCIATES
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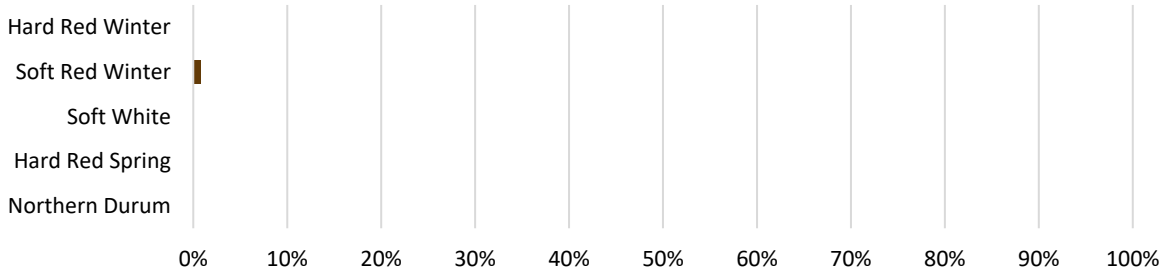
WEEKLY HARVEST REPORT – May 26, 2023

Sporadic rains across the HRW growing region slowed harvest progress in Texas and stabilized the crop in unharvested areas. In Alabama, 9% of the SRW crop is now harvested. Samples of SRW will begin arriving in the coming weeks; initial grade and crop quality data should be available mid-June. Planting of the HRS and durum crops continues apace. SW in the Pacific Northwest remains in good to excellent condition.

Estimated Percent of Sample Crop Harvested to Date
(data: NASS Weekly Crop Progress Reports and industry sources)



HARD RED WINTER

- **Crop Progress:** The 2023 HRW harvest is off to a slow start in Texas. Test cutting is expected to begin on Oklahoma's southern border this weekend. Across the country, an estimated 32% of the crop is headed and development is running behind average.
- **Crop Conditions:** USDA estimates 32% of the HRW wheat crop is in good to excellent condition. Moderate temperatures and rain have helped stabilize a drought-stricken crop across the southern plains and are expected to help benefit grain fill and yields.
- **Disease/Pest Pressure:** Farmers have started reporting incidences of foliar diseases due to cool, wet conditions. Colorado is reporting early sawfly emergence.
- **Weather:** Forecasters expect continuing moderate temperatures and sporadic rainfall throughout much of the growing region.

WHEAT DATA

	Samples		Moisture	Protein	Dry Basis Protein	Dockage	TKW	FN
	Tested	Expected	%	%	%	%	gm	sec
2022 Final	524	520	10.2	13.0	14.8	0.5	31.4	361
5-year Avg	488	504	11.1	11.6	13.2	0.5	31.3	370

GRADE FACTORS

Grade	Test Weight		FM	Damage	S&B	Defects
	lb/bu	kg/hl	%	%	%	%
1 HRW	61.0	80.2	0.1	0.5	1.1	1.8
1 HRW	60.9	80.0	0.2	0.6	0.9	1.4

Note: HRW averages in the weekly harvest report are not weighted for production. Results shown represent tested samples collected to date.

Data Source: Plains Grains, Inc.

SOFT RED WINTER

- **Crop Progress:** The Alabama crop is now 9% harvested. Heading is over 90% in most of the growing region except for Illinois at 84%, Indiana at 53% and Ohio at 26%. The crop is beginning to color and is expected to mature over the next few weeks.
- **Crop Conditions:** Across the entire sampling region, the latest crop conditions ranged from 59% good to excellent in Missouri to 90% in Maryland, with an overall average of approximately 72% good to excellent. There are isolated reports of armyworms in Alabama.

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

- **Weather:** Below average temperatures and sporadic moisture is expected over the holiday weekend across the southeast and mid-Atlantic.

WHEAT DATA									GRADE FACTORS							
	Samples		Moisture	Protein	Dry Basis Protein	Dockage	TKW	FN	Grade	Test Weight		FM	Damage	S&B	Defects
	Tested	Expected	%	12% mb	%	%	gm	sec		lb/bu	kg/hl	%	%	%	%
2022 Final	229	300	12.4	9.6	10.9	0.4	32.9	327	1 SRW	60.1	79.1	0.1	0.2	0.6	0.9
5-year Avg	242	300	13.3	9.5	10.8	0.3	32.7	309	2 SRW	58.9	77.5	0.1	0.5	0.6	1.2

Note: SRW averages in the weekly harvest report are simple averages of all samples tested and have not been weighted by the estimated production for each of the 18 reporting areas.

Data Source: Great Plains Analytical Laboratory

SOFT WHITE

- **Crop Progress:** The SW winter wheat crop is progressing with 18% headed in Washington, 2% in Idaho and 17% in Oregon. Planting of the SW spring crop is nearly complete at 96%; emergence is behind the 5-year average with 65% emerged in Idaho and 89% in Oregon and Washington.
- **Crop Conditions:** USDA rates the winter crop at 52% good to excellent and the spring crop 53%.
- **Weather:** Recent rainfall caused flooding in eastern Idaho. Moderate temperatures and chance of rain showers are forecast for the PNW.

WHEAT DATA									GRADE FACTORS							
	Samples		Moisture	Protein	Dry Basis Protein	Dockage	TKW	FN	Grade	Test Weight		FM	Damage	S&B	Defects
	Tested	Expected	%	%	%	%	gm	sec		lb/bu	kg/hl	%	%	%	%
2022 Final	404	390	8.9	9.5	10.8	0.5	34.8	340	1 SW	61.0	80.2	0.1	0.1	0.5	0.6
5-year Avg	416	390	9.1	10.0	11.3	0.5	34.6	327	1 SW	61.1	80.3	0.0	0.0	0.6	0.7

Note: SW averages in the weekly harvest report are weighted for production. Results shown represent tested samples collected to date.

Data Source: Wheat Marketing Center

HARD RED SPRING

- **Crop Progress:** Spring wheat planting is wrapped up for South Dakota. With favorable conditions, Montana, North Dakota and Minnesota are expected to be complete by next week. Overall, planting is behind average, but ahead of last year's pace.
- **Crop Conditions:** Official HRS crop condition reports are not yet available, but North Dakota state representatives report the emerging crop looks good with nice stands.
- **Disease/Pest Pressure:** Grasshoppers have been reported in the hotter, drier areas of Montana.
- **Weather:** Warm, mostly dry conditions are forecast, which will help planting progress.

WHEAT DATA									GRADE FACTORS								
	Samples		Moisture	Protein	Dry Basis Protein	Dockage	TKW	FN	Grade	Test Weight		FM	Damage	S&B	Defects	DHV
	Tested	Expected	%	%	%	%	gm	sec		lb/bu	kg/hl	%	%	%	%	%
2022 Final	423	451	11.6	14.3	16.2	0.6	30.4	386	1 NS	62.1	81.6	0.0	0.2	1.0	1.2	74
5-year Avg	463	452	12.0	14.6	16.6	0.5	30.7	375	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.

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

NORTHERN DURUM

- **Crop Progress:** Northern durum planting in North Dakota is behind average with only 38% complete, but ahead of last year's pace. Montana is 39% planted, similar to the 5-year average. Emergence is 9% in North Dakota and 20% in Montana.
- **Crop Conditions:** Official durum crop condition reports are not yet available, but state representatives report the emerging crop looks good.
- **Weather:** Thunderstorms are forecast for eastern Montana. Conditions are drier in western North Dakota. Average temperatures and chance of rain are forecast.

WHEAT DATA

	Samples		Moisture	Protein	Dry Basis Protein	Dockage	TKW	FN
	Tested	Expected	%	%	%	%	gm	sec
2022 Final	121	122	11.0	13.7	15.6	1.1	40.4	433
5-year Avg	113	122	11.3	14.4	16.3	0.9	42.3	399

GRADE FACTORS

Grade	Test Weight		FM	Damage	S&B	Defects	HVAC
	lb/bu	kg/hl	%	%	%	%	%
1 HAD	61.8	80.4	0.0	0.1	1.0	1.1	11.0
1 HAD	61.1	79.5	0.0	0.7	0.9	1.6	11.3

Note: Northern durum averages in the weekly harvest report are not weighted for production. Results shown represent tested samples collected to date.

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