U.S. Wheat Associates
Harvest Report
July 25, 2018

Hard Red Winter

The 2018 Plains HRW wheat harvest progressed into most South Dakota and Wyoming fields over the past week and well into the Pacific Northwest. Contrary to early expectations for lower protein levels in areas that had more rain, data from 178 new samples only changed cumulative protein from 12.8% (12% moisture basis) to 12.6%. Very good protein levels of >12% in Wyoming (for which elevators are paying premiums) and reports from South Dakota of a 13.9% protein average with excellent test weights exceeding 61.5 lb/bu (80.9 kg/hl) probably propped up overall protein. Cumulative test weight increased from 60.3 lb/bu (79.3 kg/hl) to 60.6 lb/bu (79.7 kg/hl). The Single Kernel Characterization System lab instrument measuring thousand kernel weight has not yet been repaired.

	WHEAT DATA								GRADE FACTORS							☐ Final
	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	%	%	%	%	
This Week	378	500	11.4	12.6	14.4	0.5		385	1HRW	60.6	79.7	0.2	0.2	1.2	1.6	
Last Week	293	500	11.2	12.8	14.5	0.5		385	1HRW	60.3	79.3	0.1	0.2	1.3	1.6	
2017 Final	488	488	10.6	11.4	13.0	0.6	31.8	367	1 HRW	60.8	80.0	0.1	0.1	0.9	1.1	

Results shown represent all samples collected through this and last week respectively.

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 Red Winter

This will be the final report for the 2018 SRW harvest. Values in this report have been weighted by the estimated production in the 18 sample collection areas.

Final samples did not change cumulative grade factor averages much. The production-weighted test weight average is 57.9 lb/bu and the average grade is US No. 3 SRW. The overall DON average of 0.7 ppm is higher than the average of less than 0.5 ppm reported in 2017 but less than the 5-year average of 1.3 ppm. This year's DON average for East Coast Tributary supplies is 1.1 ppm, while the Gulf Port DON average is 0.7 ppm.

The overall average laboratory milling yield is 68.0%, down from 68.9% last year and the 5-year average of 70.0%. Flour ash at 0.47% is the same as 2017, with no regional differences. Farinograph absorption is lower this year at an average of 51.9% from 53.2% in 2017. The Gulf Port cumulative average is 51.7% and the East Coast is 52.6% compared to 53.1% and 53.6%, respectively, last year. The 5-year average is 52.9%. The bread bake volume of 735 cc is up slightly from last year and the 5-year average, with virtually no regional differences. The internal score (grain and texture maximum 10) average of 4.8 matches 2017 and the 5-year average. Alveograph W value average is down across the regions to 81 from 92 in 2017. The P value is down to 34 from 41 last year and the L increased to 97 from 89 last year. There is little difference in the alveograph data geographically. The 5-year average W value is 82, the L is 89, and the P is 36. Cookie W/T ratio of 9.3 is equal to the 5-year average and up from last year, primarily because East Coast samples were significantly greater this year at 8.5.

	WHEAT DATA	GRADE FACTORS	☐ Final
	Dry Basis		

	Samples		Moisture	Protein	Protein	Dockage	TKW	FN	Grade	Test Weight		FM	Damage	S&B	Defects
	Tested	Expected	%	%	%	%	gm	sec		lb/bu	kg/hl	%	%	%	%
This Week	265	300	12.5	10.1	11.5	0.3	29.9	318	3 SRW	57.5	75.7	0.1	0.8	0.5	1.3
Last Week	265	300	12.5	10.1	11.5	0.3	29.9	318	3 SRW	57.4	75.6	0.1	0.8	0.5	1.4
2017 Final	270	270	12.7	9.5	10.8	0.4	34.2	320	2 SRW	58.8	77.4	0.1	1.1	0.5	1.7

Results shown represent all samples collected through this and last week respectively.

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

Hard Red Spring

The annual Wheat Quality Council "Spring Wheat and Durum Tour" this week surveyed more than 300 HRS fields in North Dakota and parts of Minnesota, South Dakota and Montana and estimated weighted average HRS yield at 41.1 bu/a (2.3 metric tons/hectare). This is slightly higher than last year's HRS tour average of 38.1 bu/a, which was impacted by drought in western areas. USDA crop condition ratings continue to be generally very good, but this estimate is a bit lower than farmers had hoped. Leaders also noted no significant concern about Fusarium head blight in this crop and, with less rain and higher temperatures, expect protein quality should be near average. Most of the spring wheat crop has headed and is turning color quite quickly. In North Dakota, over half has started coloring, ahead of average. South Dakota farmers have already harvested about 7 percent of their crop and the North Dakota may start in the next week.

	WHEAT DATA								GRADE FACTORS								☐ Final
	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	%	%	%	%	%	
This Week																	
Last Week																	
2017 Final	476	476	11.9	14.6	16.6	0.6	31.0	397	1 DNS	61.2	80.5	0.0	0.1	0.9	1.0	76	

Results shown represent all samples collected through this and last week respectively.

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

The 2018 SW harvest is running close to the 5-year average with good conditions. The loss of an estimated 1 million bushels (more than 27,200 metric tons) to a recent wildfire devastated individual farmers in North Central Oregon but will not affect exportable supplies much. Samples are arriving at the Wheat Marketing Center in Portland, OR, for analysis this week. Industry contacts report that early protein levels are somewhat lower this year and there are pockets of lower yields from frost damage. USDA's July crop production estimate puts total SW production at more than 5.74 MMT. Combined with lower carry-in supplies and more expected domestic use, the stocks-to-use ration for U.S. white wheat is 26%, down from 31% in 2017/18.

	WHEAT DATA								GRADE FACTORS							☐ Final
	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	%	%	%	%	
This Week																
Last																

Week															
2017 Final	512	400	8.9	9.6	10.9	0.5	35.5	335	1 SW	60.9	80.0	0.1	0.0	0.5	0.6

Results shown represent all samples collected through this and last week respectively.

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

Durum

The annual Wheat Quality Council "Spring Wheat and Durum Tour" this week surveyed more than 20 durum fields in North Dakota and calculated a weighted average yield of 39.3 bu/a. That is in line with last year's tour average of 39.7 bu/a. In North Dakota, 98 percent has headed out, compared to 78 percent on average and nearly half has started to turn color, compared to 25 percent on average. Crop conditions remain high this week with 84 percent rated in good to excellent condition.

	WHEAT DATA								GRADE FACTORS								☐ Final
	Samples		Moisture	Protein	Dry Basis Protein	Dockage	TKW	FN	Grade	Test Weight		FM	Damage	S&B	Defects	HVAC	
	Tested	Expected	%	%	%	%	gm	sec		lb/bu	kg/hl	%	%	%	%	%	
This Week																	
Last Week																	
2017 Final	121	113	11.1	14.5	16.5	1.0	36.9	384	1 HAD	60.4	78.7	0.0	0.1	1.1	1.2	83	

Results shown represent all samples collected through this and last week respectively.

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