



2019 PACIFIC NORTHWEST CROP QUALITY REPORT

WEEK 4: AUGUST 22, 2019

We received 423 samples by the end of the fourth week reporting period for the 2019 Pacific Northwest wheat harvest.

Of the 172 wheat samples we received in the fourth week, 106 were soft white (SWH), 24 were white club (WHCB), 24 were hard red winter (HRW), 16 were hard red spring (HRS), and one each was western white (WWH) and hard white (HDWH). Eighty-three samples (48%) came from District 8 (East Central Washington), 28 (16%) came from District 11 (Northern Idaho), 26 (15%) came from District 10 (Southeastern Washington), 20 (12%) came from District 14 (Southeastern Idaho), 11 (6%) came from Districts 1\2 (Western Oregon), and one or two samples came from each of Districts 6\7 (Western Washington), 9 (Northeastern Washington), and 13 (South Central Idaho).

USDA Economic Statistics Districts (Table 1) showed the following: Test weight averages for SWH ranged from 58.7 to 62.7 lb/bu, and dockage ranged from 0.2 to 0.7%. Wheat moisture content averages ranged from 9.3 to 11.7%. Average SWH wheat protein content (12% mb) was decreased to 10.0% from 10.3% last week. SWH falling number average value (14% mb) was 306 seconds, down from 312 seconds last week. Average WHCB test weight is lower than last year at 60.4 lb/bu. Average WHCB wheat protein (12% mb) was higher at 10.0% than 9.0% last year. Average WHCB falling number value (14% mb) was 317 seconds. WHCB had similar thousand kernel weight and kernel size averages to last year. Both HRW and HRS averages indicated similar test weights, higher protein contents, sound falling number values, similar thousand kernel weights, and similar kernel sizes when compared to last year.

We will continue to report the six PNW Production Zones (Table 2): Northwest (NW), Southwest (SW), North Central (NC), Central (C), Northeast (NE), and Southeast (SE). The Zones are based on country elevator locations and climatic conditions. Forty-eight percent of this week's samples came from Zone NC, 29% came from Zone NE, 16% came from Zone SE, 6% came from Zone SW, and one sample came from Zone NW.

So far, SWH had similar test weight, slightly lower dockage, similar grading factors, higher moisture, higher protein content, lower falling number, similar thousand kernel weight, and similar kernel size when compared to last year. WHCB had lower test weight, higher moisture, higher protein, similar falling number, lower thousand kernel weight, and smaller kernels when compared to last year.



BY USDA ECONOMIC STATISTICS DISTRICTS

Table 1

2019 CROP WEEK 4 August 22, 2019																					
Class	District	Number of Samples	Grading Data										Quality Data								
			Test Weight (lb/bu)	Test Weight (kg/ha)	Dockage (%)	Heat Damage (%)	Total Damage (%)	Foreign Material (%)	Shrunk & Broken (%)	Total Defects (%)	Moisture (%)	Protein (% 12% mb)			Falling Number (s. 14%mb)	Thousand Kernel Weight (g. 14% mb)	Kernel Hardness (20 to 120)	Kernel Size (mm)	Ash (% 14% mb)	Wet Gluten (% 14% mb)	
												Average	Low	High							
SWH	1 2	11	59.5	78.3	0.4	0.0	0.0	0.0	0.0	0.5	0.6	11.7	8.5	7.6	9.7	301	40.0	15.4	2.86	1.40	18.2
SWH	3	2	61.0	80.2	0.3	0.0	0.0	0.0	0.7	0.7	10.6	9.1	8.8	9.4	271	44.4	23.8	2.97	1.57	21.0	
SWH	4	20	61.7	81.1	0.5	0.0	0.0	0.0	0.4	0.4	10.3	10.4	9.0	12.9	305	35.5	20.3	2.75	1.33	25.7	
SWH	5	8	61.5	80.9	0.2	0.0	0.0	0.3	0.5	0.9	9.4	9.7	8.8	10.7	315	35.5	24.0	2.80	1.38	23.4	
SWH	6 7	14	61.0	80.3	0.6	0.0	0.0	0.2	0.6	0.8	10.1	10.5	8.0	13.6	287	35.4	22.6	2.69	1.30	25.5	
SWH	8	95	61.5	80.9	0.4	0.0	0.0	0.0	0.5	0.6	9.4	10.1	7.7	15.9	300	34.1	24.5	2.69	1.26	24.8	
SWH	9	2	58.7	77.3	0.7	0.0	0.0	0.0	1.5	1.5	9.3	12.4	8.8	15.9	230	29.2	19.9	2.55	1.57	32.8	
SWH	10	39	62.5	82.2	0.4	0.0	0.0	0.0	0.4	0.5	9.5	10.4	8.7	12.2	315	35.9	24.9	2.77	1.31	25.3	
SWH	11	22	62.7	82.4	0.5	0.0	0.0	0.0	0.5	0.5	10.0	10.2	9.2	11.0	315	34.5	26.6	2.74	1.40	24.0	
SWH	12	6	60.6	79.8	0.7	0.0	0.3	0.5	0.2	1.0	9.6	9.2	8.5	9.7	262	45.4	19.3	2.99	1.55	21.1	
SWH	13	12	62.4	82.1	0.2	0.0	0.0	0.0	0.2	0.2	10.1	9.1	7.7	10.8	339	41.2	31.1	2.88	1.52	18.1	
SWH	14	20	61.3	80.7	0.3	0.0	0.0	0.0	0.4	0.4	10.3	9.7	8.2	11.7	318	39.9	24.9	2.87	1.53	20.1	
	Crop Year Average																				
SWH	2019	251	61.6	81.1	0.4	0.0	0.0	0.0	0.5	0.5	9.8	10.0			306	36.0	24.1	2.75	1.35	23.8	
SWH	2018	473	61.7	80.9	0.5	0.0	0.0	0.0	0.5	0.6	8.6	9.3			315	35.7	27.2	2.77	1.36	20.6	
WHCB	6 7	4	58.7	77.2	0.7	0.0	0.0	0.1	1.4	1.5	9.8	9.6	8.2	10.3	284	32.6	18.0	2.52	1.32	21.3	
WHCB	8	54	60.4	79.5	0.8	0.0	0.0	0.1	1.1	1.1	9.3	10.0	7.8	12.8	320	31.4	18.2	2.52	1.25	23.0	
WHCB	10	6	60.9	80.1	0.7	0.0	0.0	0.6	1.5	2.1	8.7	10.3	8.0	12.7	312	28.5	29.3	2.51	1.32	24.9	
	Crop Year Average																				
WHCB	2019	64	60.4	79.4	0.8	0.0	0.0	0.1	1.1	1.2	9.3	10.0			317	31.2	19.2	2.52	1.26	23.0	
WHCB	2018	128	61.2	80.5	0.5	0.0	0.0	0.1	0.8	0.9	8.1	9.0			316	32.8	27.9	2.62	1.29	15.8	
HRW	4	2	60.9	80.1	1.0	0.0	0.0	0.1	0.4	0.4	9.4	10.5	8.4	12.6	292	30.2	61.6	2.65	1.36	23.6	
HRW	5	2	64.7	84.9	0.1	0.0	0.2	0.0	0.1	0.3	9.2	13.1	12.4	13.7	342	38.0	66.0	2.95	1.53	34.4	
HRW	6 7	8	63.1	82.9	0.3	0.0	0.0	0.0	0.2	0.3	10.9	11.9	10.8	12.8	366	37.8	69.8	2.84	1.27	30.3	
HRW	8	22	62.2	81.7	0.5	0.0	0.0	0.0	0.6	0.6	9.5	12.1	10.1	14.8	357	36.4	59.9	2.85	1.35	28.9	
HRW	10	17	63.2	83.0	0.4	0.0	0.0	0.0	0.5	0.6	9.5	11.1	9.4	12.6	344	35.6	64.7	2.85	1.29	24.6	
HRW	11	23	63.1	82.9	0.3	0.0	0.0	0.0	0.4	0.4	9.2	10.9	9.4	13.1	346	36.1	64.5	2.89	1.36	23.4	
HRW	13	4	62.2	81.7	0.1	0.0	0.0	0.0	0.3	0.3	8.4	12.0	11.9	12.2	380	37.4	67.4	2.96	1.42	28.6	
	Crop Year Average																				
HRW	2019	78	62.8	82.5	0.4	0.0	0.0	0.0	0.4	0.5	9.5	11.5			351	36.2	63.9	2.86	1.34	26.5	
HRW	2018	112	62.9	82.7	0.3	0.0	0.0	0.0	0.5	0.5	8.3	11.1			365	36.7	65.3	2.92	1.38	25.1	
HRS	4	1	64.0	84.1	0.0	0.0	0.0	0.0	0.3	0.3	8.7	14.5	14.5	14.5	373	34.2	66.0	2.85	1.42	36.9	
HRS	6 7	4	63.3	83.1	0.6	0.0	0.0	0.0	0.3	0.3	10.0	14.7	13.9	16.0	387	38.2	63.6	2.94	1.42	39.9	
HRS	8	10	63.2	83.0	0.5	0.0	0.0	0.1	0.8	0.9	9.4	14.7	12.5	16.2	324	35.8	61.6	2.88	1.68	37.8	
HRS	10	8	63.0	82.8	0.3	0.0	0.0	0.1	0.5	0.6	9.0	14.4	12.9	15.7	396	30.4	70.1	2.73	1.54	33.7	
HRS	11	4	62.5	82.2	0.3	0.0	0.0	0.0	0.7	0.7	8.0	15.2	14.9	15.6	402	24.6	76.2	2.53	1.55	38.5	
	Crop Year Average																				
HRS	2019	27	63.1	82.9	0.4	0.0	0.0	0.1	0.6	0.7	9.1	14.7			368	32.8	66.8	2.79	1.57	37.0	
HRS	2018	95	62.6	82.3	0.4	0.0	0.0	0.0	0.8	0.8	8.7	14.1			386	32.3	72.2	2.77	1.56	35.0	



BY PRODUCTION ZONES

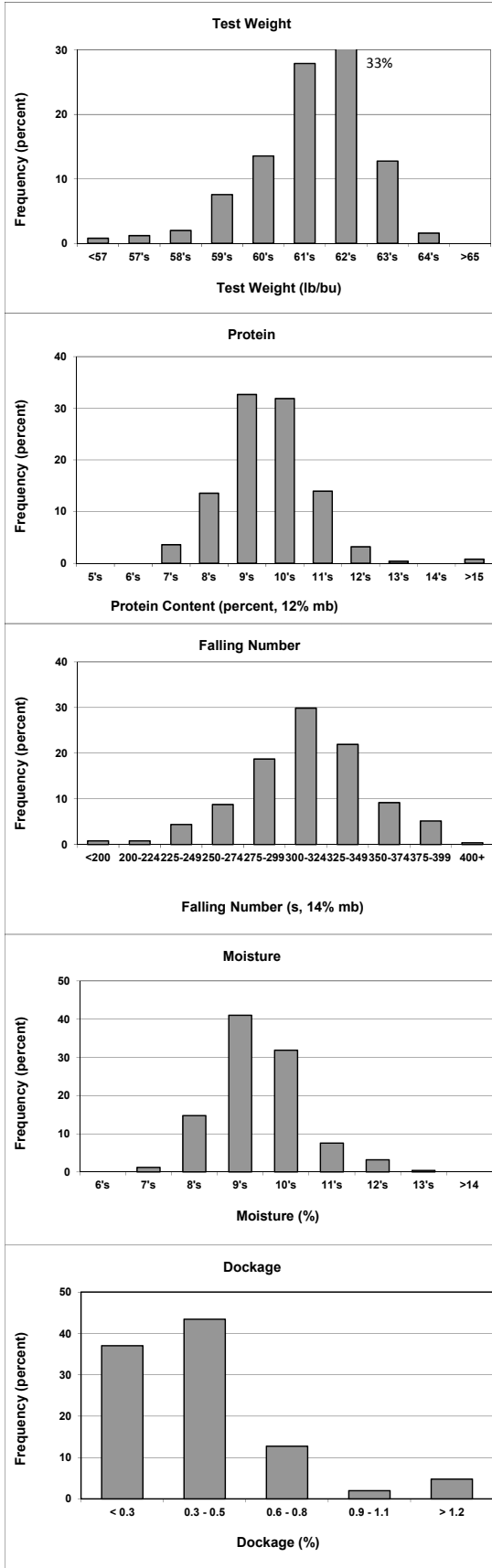
Table 2

2019 CROP WEEK 4 August 22, 2019																				
		Grading Data										Quality Data								
Class	District	Number of Samples	Test Weight (lb/bu)	Test Weight (kg/hl)	Dockage (%)	Heat Damage (%)	Total Damage (%)	Foreign Material (%)	Shrunk & Broken (%)	Total Defects (%)	Moisture (%)	Protein (% 12% mb)			Falling Number (s, 14%mb)	Thousand Kernel Weight (g, 14% mb)	Kernel Hardness (-20 to 120)	Kernel Size (mm)	Ash (% 14% mb)	Wet Gluten (% 14% mb)
												Average	Low	High						
SWH	NC	111	61.5	80.8	0.5	0.0	0.0	0.0	0.5	0.6	9.5	10.2	7.7	15.9	310	34.3	24.3	2.69	1.27	25.0
SWH	NE	50	62.7	82.4	0.4	0.0	0.0	0.0	0.5	0.5	9.6	10.4	8.8	15.9	308	34.9	25.8	2.75	1.34	25.3
SWH	C	38	61.6	81.0	0.4	0.0	0.0	0.2	0.5	0.6	10.0	10.2	8.7	12.9	309	35.5	22.0	2.76	1.36	24.7
SWH	SW	11	59.5	78.3	0.4	0.0	0.0	0.0	0.5	0.6	11.7	8.5	7.6	9.7	301	40.0	15.4	2.86	1.40	18.2
SWH	SE	40	61.5	80.9	0.3	0.0	0.0	0.1	0.3	0.4	10.2	9.4	7.7	11.7	310	41.4	25.9	2.90	1.53	19.7
	Crop Year Average																			
SWH	2019	251	61.6	81.1	0.4	0.0	0.0	0.0	0.5	0.5	9.8	10.0			306	36.0	24.1	2.75	1.35	23.8
SWH	2018	473	61.7	80.9	0.5	0.0	0.0	0.0	0.5	0.6	8.6	9.3			315	35.7	27.2	2.77	1.36	20.6
WHCB	NC	59	60.4	79.4	0.8	0.0	0.0	0.1	1.1	1.1	9.4	10.0	7.8	12.8	318	31.4	18.5	2.52	1.26	23.0
WHCB	NE	4	60.6	79.7	0.9	0.0	0.0	0.9	2.0	2.9	8.3	10.8	8.0	12.7	320	26.3	30.4	2.47	1.31	26.0
WHCB	C	1	59.1	77.8	0.5	0.0	0.0	0.0	0.6	0.6	9.7	8.2	8.2	8.2	279	36.2	17.3	2.65	1.36	14.2
	Crop Year Average																			
WHCB	2019	64	60.4	79.4	0.8	0.0	0.0	0.1	1.1	1.2	9.3	10.0			317	31.2	19.2	2.52	1.26	23.0
WHCB	2018	128	61.2	80.5	0.5	0.0	0.0	0.1	0.8	0.9	8.1	9.0			316	32.8	27.9	2.62	1.29	15.8
HRW	NC	30	62.3	81.9	0.5	0.0	0.0	0.0	0.5	0.5	9.8	12.0	10.1	14.8	361	36.2	62.6	2.83	1.34	29.2
HRW	NE	30	63.3	83.2	0.3	0.0	0.0	0.0	0.4	0.4	9.3	10.7	9.4	12.4	337	36.7	62.9	2.90	1.29	23.2
HRW	C	8	63.0	82.8	0.4	0.0	0.0	0.0	0.6	0.6	9.7	11.8	8.4	13.7	324	35.3	64.7	2.82	1.35	27.8
HRW	SE	4	62.2	81.7	0.1	0.0	0.0	0.0	0.3	0.3	8.4	12.0	11.9	12.2	378	37.4	67.4	2.96	1.42	28.6
	Crop Year Average																			
HRW	2019	78	62.8	82.5	0.4	0.0	0.0	0.0	0.4	0.5	9.5	11.5			351	36.2	63.9	2.86	1.34	26.5
HRW	2018	112	62.9	82.7	0.3	0.0	0.0	0.0	0.5	0.5	8.3	11.1			365	36.7	65.3	2.92	1.38	25.1
HRS	NC	13	63.2	83.0	0.5	0.0	0.0	0.1	0.7	0.8	9.5	14.6	12.5	16.2	339	36.1	62.6	2.89	1.62	37.6
HRS	NE	12	62.8	82.6	0.3	0.0	0.0	0.1	0.6	0.6	8.6	14.6	12.9	15.7	398	28.4	72.2	2.66	1.54	35.3
HRS	C	2	63.7	83.7	0.4	0.0	0.0	0.0	0.3	0.3	9.4	15.3	14.5	16.0	355	37.8	61.5	2.94	1.46	42.9
	Crop Year Average																			
HRS	2019	27	63.1	82.9	0.4	0.0	0.0	0.1	0.6	0.7	9.1	14.7			368	32.8	66.8	2.79	1.57	37.0
HRS	2018	95	62.6	82.3	0.4	0.0	0.0	0.0	0.8	0.8	8.7	14.1			386	32.3	72.2	2.77	1.56	35.0

Distributions

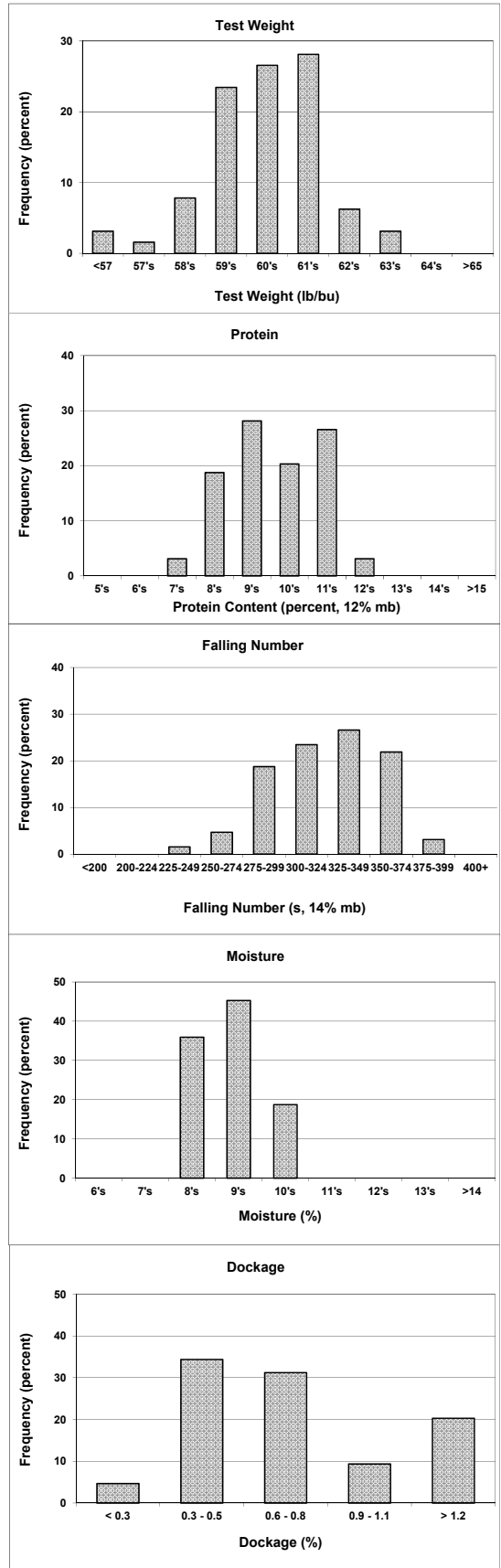
SOFT WHITE WHEAT

251 SAMPLES



WHITE CLUB WHEAT

64 SAMPLE



Prepared by: Wheat Marketing Center, Portland, Oregon