



## **2019 PACIFIC NORTHWEST CROP QUALITY REPORT**

WEEK 3: AUGUST 15, 2019

We received a total of 251 samples by the end of the third week reporting period for the 2019 Pacific Northwest wheat harvest.

Of the 152 wheat samples we received in the third week, 83 were soft white (SWH), 38 were white club (WHCB), 26 were hard red winter (HRW), and 5 were hard red spring (HRS). Seventy-seven samples (51%) came from District 8 (East Central Washington), 26 (17%) came from District 10 (Southeastern Washington), 16 (11%) came from District 13 (South Central Idaho), and less than 10 samples came from Districts 3 (Southeastern Oregon), 4 (North Central Oregon), 5 (Northeastern Oregon), 6\7 (Western Washington), 11 (Northern Idaho), and 12 (Southwestern Idaho).

USDA Economic Statistics Districts (Table 1) showed the following: Test weight averages for SWH ranged from 60.6 to 62.6 lb/bu (79.8 to 82.3 kg/hl), and dockage ranged from 0.2 to 0.7%. Wheat moisture content averages ranged from 9.4 to 10.6%. Average SWH wheat protein content (12% mb) decreased slightly to 10.3% from 10.5% last week. SWH falling number average value (14% mb) was 312 seconds. Thousand kernel weight (14% mb) and kernel size were similar to last year's averages. Average WHCB test weight was lower at 60.1 lb/bu compared with 61.2 lb/bu last year. Average WHCB wheat protein (12% mb) was higher at 9.9% compared with 9.0% last year. Average WHCB falling number value (14% mb) was 319 seconds. HRW averages appeared to have similar test weight, higher moisture, higher protein content, and a sound falling number value when compared to last year. HRS averages appeared to have higher test weight, higher moisture, higher protein, and heavier and bigger kernels than last year. To date, about 11% of last year's total samples have been tested.

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. Sixty-three percent of this week's samples came from Zone NC, 16% came from Zone SE, 13% came from NE, and 9% each came from Zone C.

As of the third week, SWH had higher test weight (61.9 lb/bu); slightly lower dockage (0.4%), similar grading factors, higher moisture (9.8%), higher protein (10.3%), similar falling number value (312 seconds), similar thousand kernel weight, and similar kernel size when compared to last year.



BY USDA ECONOMIC STATISTICS DISTRICTS

Table 1

2019 CROP WEEK 3 August 15, 2019																					
Class	District	Number of Samples	Grading Data									Quality Data									
			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	3	2	61.0	80.2	0.3	0.0	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	617	13	61.0	80.2	0.6	0.0	0.0	0.2	0.6	0.8	10.2	10.7	9.2	13.6	300	35.3	22.7	2.68	1.29	26.3	
SWH	8	41	61.7	81.1	0.4	0.0	0.0	0.0	0.5	0.5	9.4	10.7	8.7	15.9	316	34.4	26.7	2.70	1.30	27.0	
SWH	10	30	62.5	82.2	0.4	0.0	0.0	0.0	0.5	0.5	9.7	10.3	8.7	11.9	315	35.7	24.7	2.77	1.33	25.0	
SWH	11	13	62.6	82.3	0.2	0.0	0.0	0.0	0.3	0.3	10.4	10.4	9.8	11.0	322	34.5	25.5	2.74	1.44	25.6	
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	
	<b>Crop Year Average</b>																				
SWH	<b>2019</b>	145	61.9	81.4	0.4	0.0	0.0	0.1	0.4	0.5	9.8	10.3			312	36.1	24.8	2.76	1.36	25.0	
SWH	<b>2018</b>	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	617	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	34	60.2	79.2	0.8	0.0	0.0	0.1	1.1	1.1	9.4	9.9	7.8	12.8	324	31.5	17.8	2.51	1.28	23.1	
WHCB	10	2	61.5	80.9	0.5	0.0	0.0	0.0	0.7	0.7	9.5	9.5	9.0	9.9	296	32.9	27.2	2.57	1.33	22.7	
	<b>Crop Year Average</b>																				
WHCB	<b>2019</b>	40	60.1	79.1	0.8	0.0	0.0	0.1	1.1	1.2	9.5	9.9			319	31.7	18.3	2.52	1.29	22.9	
WHCB	<b>2018</b>	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	617	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	17	62.3	81.9	0.4	0.0	0.0	0.0	0.6	0.6	9.7	12.0	10.1	14.8	361	36.7	61.6	2.85	1.36	28.7	
HRW	10	12	63.1	82.9	0.4	0.0	0.1	0.0	0.6	0.7	9.8	11.0	9.4	12.6	339	36.2	63.8	2.85	1.31	24.1	
HRW	11	9	63.6	83.6	0.2	0.0	0.0	0.0	0.4	0.4	9.4	10.6	9.5	11.6	326	38.3	60.5	2.95	1.34	23.0	
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	
	<b>Crop Year Average</b>																				
HRW	<b>2019</b>	54	62.8	82.6	0.3	0.0	0.0	0.0	0.5	0.5	9.7	11.5			349	36.9	63.7	2.87	1.35	27.0	
HRW	<b>2018</b>	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	617	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	6	63.5	83.4	0.2	0.0	0.0	0.0	0.7	0.7	9.3	15.2	14.2	16.1	348	35.6	61.0	2.88	1.73	38.5	
	<b>Crop Year Average</b>																				
HRS	<b>2019</b>	11	63.4	83.4	0.3	0.0	0.0	0.0	0.5	0.5	9.5	14.9			364	36.4	62.4	2.90	1.59	38.9	
HRS	<b>2018</b>	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**

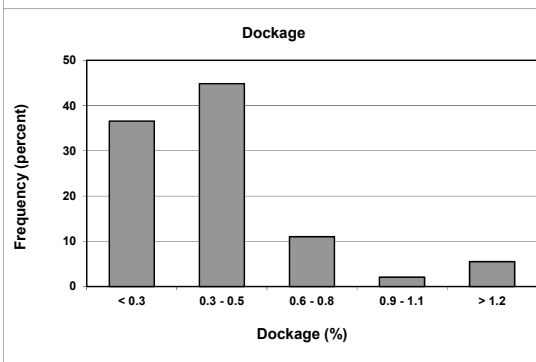
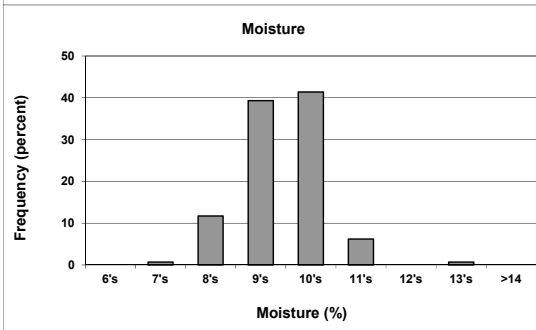
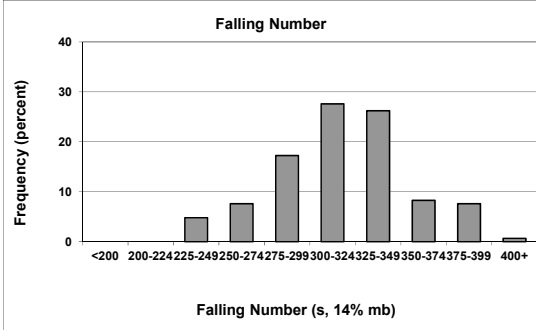
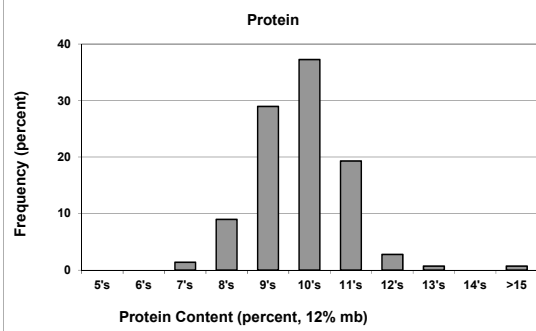
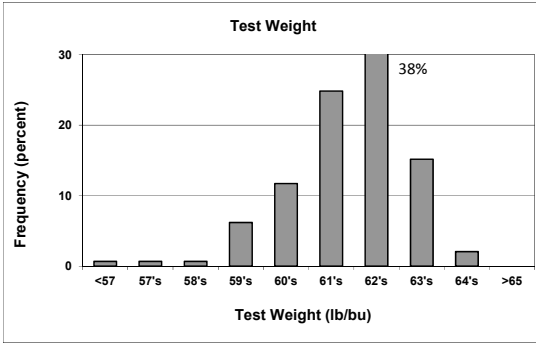
**Table 2**

2019 CROP WEEK 3 August 15, 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	57	61.6	80.9	0.5	0.0	0.0	0.0	0.6	0.6	9.6	10.7	8.7	15.9	321	34.8	25.6	2.71	1.31	26.8
SWH	NE	30	62.9	82.7	0.3	0.0	0.0	0.0	0.4	0.4	10.0	10.4	9.2	11.5	313	35.0	25.6	2.74	1.35	25.5
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	SE	20	61.7	81.2	0.3	0.0	0.1	0.2	0.2	0.5	10.0	9.1	7.7	10.8	303	42.8	26.8	2.93	1.54	19.3
	<b>Crop Year Average</b>																			
SWH	<b>2019</b>	145	61.9	81.4	0.4	0.0	0.0	0.1	0.4	0.5	9.8	10.3			312	36.1	24.8	2.76	1.36	25.0
SWH	<b>2018</b>	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	39	60.1	79.1	0.8	0.0	0.0	0.1	1.1	1.2	9.5	9.9	7.8	12.8	319	31.6	18.3	2.51	1.29	23.1
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
	<b>Crop Year Average</b>																			
WHCB	<b>2019</b>	40	60.1	79.1	0.8	0.0	0.0	0.1	1.1	1.2	9.5	9.9			319	31.7	18.3	2.52	1.29	22.9
WHCB	<b>2018</b>	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	25	62.4	82.1	0.4	0.0	0.0	0.0	0.5	0.5	10.0	12.0	10.1	14.8	363	36.4	64.3	2.84	1.35	29.2
HRW	NE	17	63.4	83.4	0.3	0.0	0.0	0.0	0.4	0.4	9.7	10.6	9.4	11.7	332	38.2	61.5	2.92	1.31	23.0
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
	<b>Crop Year Average</b>																			
HRW	<b>2019</b>	54	62.8	82.6	0.3	0.0	0.0	0.0	0.5	0.5	9.7	11.5			349	36.9	63.7	2.87	1.35	27.0
HRW	<b>2018</b>	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	9	63.4	83.3	0.3	0.0	0.0	0.0	0.6	0.6	9.5	14.9	13.9	16.1	365	36.1	62.6	2.89	1.62	38.0
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
	<b>Crop Year Average</b>																			
HRS	<b>2019</b>	11	63.4	83.4	0.3	0.0	0.0	0.0	0.5	0.5	9.5	14.9			364	36.4	62.4	2.90	1.59	38.9
HRS	<b>2018</b>	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

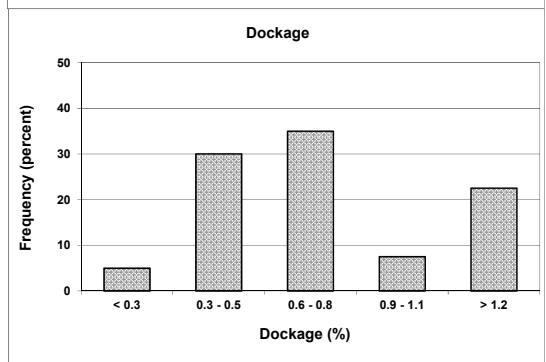
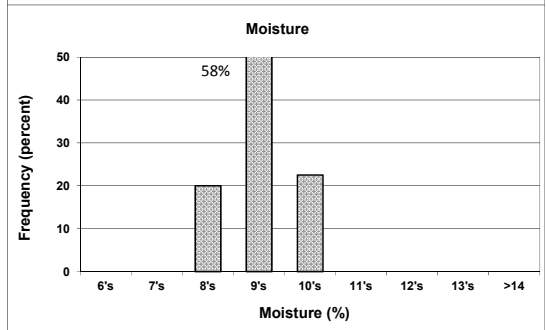
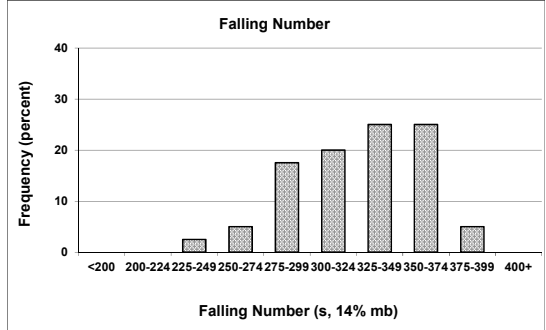
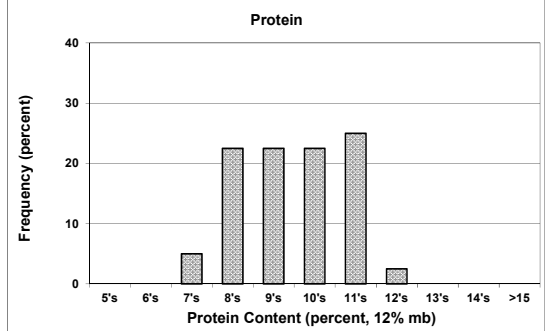
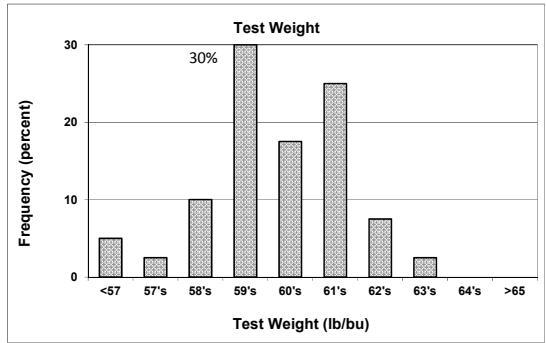
## SOFT WHITE WHEAT

145 SAMPLES



## WHITE CLUB WHEAT

40 SAMPLE



Prepared by: Wheat Marketing Center, Portland, Oregon