



## **2021 PACIFIC NORTHWEST CROP QUALITY REPORT**

WEEK 4: AUGUST 12, 2021

We received 307 samples by the end of the fourth week reporting period for the 2021 Pacific Northwest wheat harvest.

Of the 69 wheat samples we received in the fourth week, 37 were soft white (SWH), 15 were white club (WHCB), 10 were hard red winter (HRW), 5 were hard red spring (HRS), and 2 were hard white (HDWH). Thirty samples (43%) came from District 8 (East Central Washington), 13 (19%) came from District 4 (North Central Oregon), and fewer than 10 samples each came from Districts 6/7 (Western Washington), 10 (Southeast Washington), 13 (South Central Idaho), and 14 (Southeastern Idaho).

USDA Economic Statistics Districts (Table 1) showed the following: Test weight averages for SWH ranged from 58.1 to 61.2 lb/bu (76.5 to 80.5 kg/hl), and dockage ranged from 0.2 to 0.6%. Wheat moisture content averages ranged from 7.7 to 10.5%. Average SWH wheat protein content (12% mb) went back up to 11.3% from 11.2% last week. SWH falling number average value (14% mb) remained similar to last week at 350 seconds. Average WHCB test weight was lower than last year at 60.1 lb/bu (79.1 kg/hl). Average WHCB wheat protein (12% mb) was higher at 11.2% than last year at 9.8%. Average WHCB falling number value (14% mb) was 348 seconds. WHCB had lighter thousand kernel weight and smaller kernel size than last year. Both HRW and HRS averages followed the same trends with lower test weights, higher protein contents, sound falling number values, lighter thousand kernel weights, and smaller kernel sizes 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. Fifty-nine percent of this week's samples came from Zone NC, 22% came from Zone C, and 13% came from Zone SE.

So far, the 2021 PNW harvest had lower test weight, lower dockage, similar other grading factors, lower moisture, higher protein content, higher falling number, lighter thousand kernel weight, and smaller kernel size compared to last year.



**BY USDA ECONOMIC STATISTICS DISTRICTS**

Table 1

2021 CROP WEEK 4: August 12, 2021																					
		Grading Data										Quality Data									
Class	District	Number of Samples	Test Weight (lb/bu)	Test Weight (kg/ht)	Dockage (%)	Heat Damage (%)	Total Damage (%)	Foreign Material (%)	Shrunk & Broken (%)	Total Defects (%)	Moisture (%)	Protein (% 12% mb)			Falling Number (#, 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	3	60.5	79.5	0.6	0.0	0.0	0.0	0.4	0.4	9.5	10.2	9.4	11.2	349	39.3	24.7	2.81	1.70	16.1	
SWH	4	36	60.0	78.9	0.4	0.0	0.1	0.0	0.8	0.9	8.3	11.3	8.6	13.8	355	28.7	38.5	2.52	1.37	28.4	
SWH	5	11	59.9	78.8	0.3	0.0	0.0	0.0	0.8	0.8	8.2	10.4	8.8	12.2	336	30.2	33.8	2.58	1.49	23.2	
SWH	6/7	8	59.7	78.6	0.3	0.0	0.0	0.1	1.1	1.2	8.5	11.5	9.4	12.5	339	26.7	32.3	2.48	1.28	29.5	
SWH	8	69	59.8	78.6	0.3	0.0	0.0	0.0	0.9	0.9	7.7	11.5	7.7	13.8	354	28.5	40.7	2.51	1.28	27.6	
SWH	9	1	58.1	76.5	0.2	0.0	0.0	0.0	1.4	1.4	8.2	10.7	10.7	10.7	316	27.2	36.4	2.45	1.26	27.7	
SWH	10	25	59.8	78.7	0.2	0.0	0.0	0.0	1.0	1.0	7.9	11.6	9.3	13.9	347	27.5	37.9	2.49	1.33	27.6	
SWH	11	21	59.3	78.0	0.4	0.0	0.0	0.0	1.0	1.0	8.2	11.5	9.4	14.1	354	26.2	35.7	2.44	1.39	27.3	
SWH	12	6	61.2	80.5	0.2	0.0	0.0	0.0	0.5	0.5	9.1	9.8	9.2	11.1	335	39.4	25.3	2.82	1.65	16.4	
SWH	13	3	60.8	79.9	0.4	0.0	0.0	0.0	1.0	1.0	8.4	10.4	9.2	12.0	357	38.5	27.5	2.80	1.73	19.8	
SWH	14	8	60.1	79.1	0.3	0.0	0.0	0.0	0.4	0.5	10.5	10.7	9.0	12.8	331	33.3	26.6	2.65	1.67	19.0	
	<b>Crop Year Average</b>																				
SWH	<b>2021</b>	191	59.9	78.8	0.3	0.0	0.0	0.0	0.9	0.9	8.2	11.3			350	29.0	37.1	2.53	1.37	26.5	
SWH	<b>2020</b>	389	61.9	81.4	0.5	0.0	0.0	0.0	0.4	0.5	9.2	9.8			323	36.3	32.2	2.77	1.35	29.3	
WHCB	5	2	59.0	77.6	0.8	0.0	0.0	0.1	1.0	1.1	7.9	9.2	7.8	10.6	312	25.8	33.6	2.43	1.45	—	
WHCB	6/7	5	59.3	78.0	0.2	0.0	0.0	0.0	1.1	1.1	8.1	10.1	9.0	10.8	324	29.3	39.0	2.47	1.27	—	
WHCB	8	43	60.4	79.4	0.3	0.0	0.0	0.1	1.2	1.3	7.8	11.4	8.9	14.2	354	28.2	39.1	2.44	1.29	—	
WHCB	10	1	61.0	80.2	0.2	0.0	0.0	0.0	0.8	0.8	7.8	10.0	10.0	10.0	370	27.7	57.3	2.47	1.25	—	
WHCB	11	1	54.0	71.2	1.1	0.0	0.0	0.0	7.7	7.7	8.7	12.9	12.9	12.9	283	19.5	39.3	2.14	1.41	—	
	<b>Crop Year Average</b>																				
WHCB	<b>2021</b>	52	60.1	79.1	0.3	0.0	0.0	0.1	1.3	1.3	7.8	11.2			348	28.1	39.3	2.44	1.30	—	
WHCB	<b>2020</b>	95	61.6	81.0	0.5	0.0	0.0	0.0	0.8	0.9	8.5	9.8			322	32.3	31.4	2.61	1.27	18.0	
HRW	4	4	62.2	81.8	0.4	0.0	0.4	0.0	1.0	1.4	7.9	12.4	11.6	13.6	404	27.9	77.2	2.58	1.31	29.3	
HRW	5	1	60.9	80.1	0.2	0.0	0.0	0.0	0.4	0.4	8.3	12.0	12.0	12.0	390	35.3	69.5	2.89	1.56	27.6	
HRW	6/7	7	60.3	79.3	0.1	0.0	0.0	0.0	1.1	1.1	8.5	13.5	11.0	16.3	452	31.0	72.3	2.66	1.49	32.2	
HRW	8	19	61.1	80.3	0.1	0.0	0.0	0.1	0.7	0.8	8.0	12.7	9.2	14.6	397	30.3	72.7	2.70	1.40	30.3	
HRW	10	4	59.2	77.9	0.2	0.0	0.0	0.0	1.1	1.1	7.5	12.9	11.5	13.9	342	26.7	77.5	2.53	1.32	28.2	
HRW	11	12	58.0	76.3	0.5	0.0	0.0	0.0	1.2	1.2	8.2	13.4	11.8	14.3	368	24.9	74.7	2.48	1.35	29.6	
	<b>Crop Year Average</b>																				
HRW	<b>2021</b>	47	60.1	79.1	0.2	0.0	0.0	0.0	0.9	1.0	8.1	13.0			394	28.6	73.9	2.61	1.39	30.1	
HRW	<b>2020</b>	69	62.9	82.6	0.3	0.0	0.0	0.0	0.4	0.5	9.3	11.4			351	36.7	67.6	2.87	1.40	26.8	
HRS	4	2	61.4	80.7	0.2	0.0	0.0	0.0	0.6	0.6	8.9	15.3	14.9	15.7	406	32.1	74.4	2.75	1.67	33.8	
HRS	5	3	62.1	81.7	0.3	0.0	0.0	0.4	0.8	1.1	8.4	14.8	13.5	16.1	412	28.8	79.5	2.66	1.59	38.1	
HRS	6/7	2	61.1	80.4	0.0	0.0	0.0	0.1	0.7	0.7	7.8	14.4	13.4	15.4	405	31.6	70.1	2.77	1.66	36.8	
HRS	8	5	62.3	81.9	0.0	0.0	0.3	0.0	0.7	1.1	9.0	14.4	13.6	15.1	365	31.7	70.6	2.74	1.73	37.0	
HRS	10	1	63.5	83.5	0.1	0.0	0.0	0.1	0.5	0.6	8.5	14.2	14.2	14.2	381	23.2	81.1	2.72	1.45	38.0	
HRS	11	2	61.9	81.3	0.3	0.0	0.0	0.0	0.7	0.7	8.9	16.7	16.6	16.8	335	22.8	80.0	2.46	1.55	44.9	
	<b>Crop Year Average</b>																				
HRS	<b>2021</b>	15	62.0	81.5	0.1	0.0	0.1	0.1	0.7	0.9	8.7	14.9			382	29.4	74.8	2.69	1.64	37.9	
HRS	<b>2020</b>	65	62.8	82.5	0.5	0.0	0.1	0.0	0.4	0.5	9.2	14.1			380	32.6	72.1	2.78	1.60	35.6	



**BY PRODUCTION ZONES**

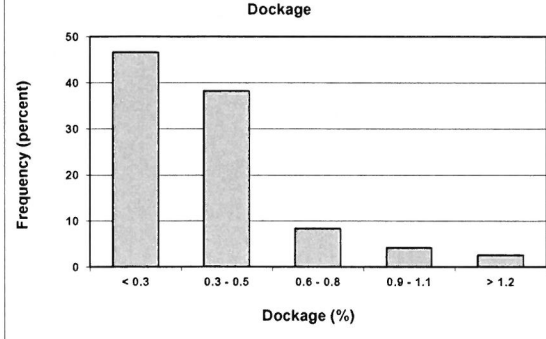
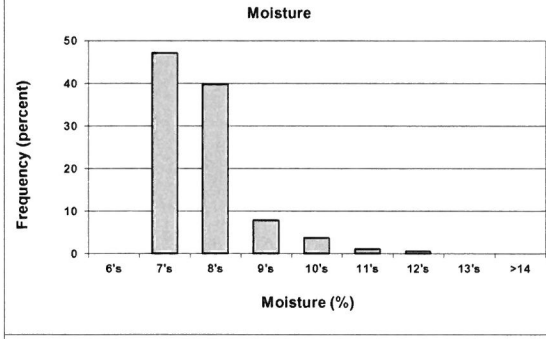
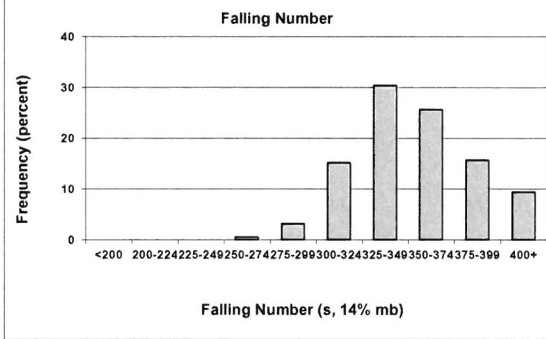
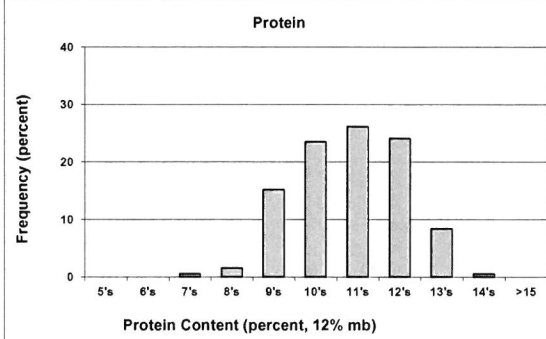
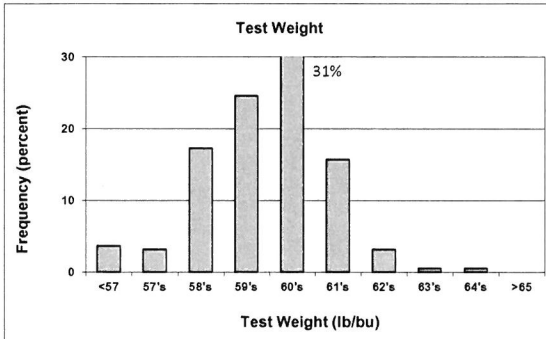
**Table 2**

2021 CROP WEEK 4: August 12, 2021																				
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	NC	87	59.7	78.5	0.3	0.0	0.0	0.0	0.9	1.0	7.8	11.6	7.7	13.9	361	28.1	39.7	2.50	1.30	28.0
SWH	NE	32	59.7	78.5	0.4	0.0	0.0	0.0	0.9	0.9	8.2	11.2	9.4	14.1	345	27.0	37.2	2.46	1.34	26.6
SWH	C	52	60.0	78.9	0.4	0.0	0.1	0.0	0.8	0.9	8.3	11.1	8.6	13.8	348	28.9	36.9	2.54	1.39	27.3
SWH	SE	20	60.6	79.7	0.3	0.0	0.0	0.0	0.5	0.6	9.6	10.3	9.0	12.8	338	36.8	26.1	2.75	1.68	17.9
	<b>Crop Year Average</b>																			
SWH	<b>2021</b>	154	59.8	78.7	0.4	0.0	0.0	0.0	0.9	0.9	8.0	11.2			349	28.9	38.0	2.52	1.35	26.4
SWH	<b>2020</b>	389	61.9	81.4	0.5	0.0	0.0	0.0	0.4	0.5	9.2	9.8			323	36.3	32.2	2.77	1.35	29.3
WHCB	NC	48	60.3	79.3	0.3	0.0	0.0	0.1	1.2	1.2	7.8	11.3	8.9	14.2	352	28.3	39.5	2.44	1.29	—
WHCB	NE	1	54.0	71.2	1.1	0.0	0.0	0.0	7.7	7.7	8.7	12.9	12.9	12.9	283	19.5	39.3	2.14	1.41	—
WHCB	C	3	59.0	77.6	0.5	0.0	0.0	0.1	0.9	1.0	7.9	9.4	7.8	10.6	312	27.8	36.3	2.49	1.42	—
	<b>Crop Year Average</b>																			
WHCB	<b>2021</b>	37	60.043	79.0	0.4	0.0	0.0	0.1	1.3	1.4	7.7	10.9			343	28.0	40.9	2.43	1.29	—
WHCB	<b>2020</b>	95	61.581	81.0	0.5	0.0	0.0	0.0	0.8	0.9	8.5	9.8			322	32.3	31.4	2.61	1.27	18.0
HRW	NC	26	60.7	79.8	0.1	0.0	0.0	0.1	0.9	1.0	8.0	12.9	9.2	16.3	400	30.3	73.5	2.67	1.42	30.6
HRW	NE	14	58.4	76.8	0.5	0.0	0.0	0.0	1.1	1.2	8.2	13.2	11.5	14.3	365	25.3	74.7	2.49	1.35	29.1
HRW	C	7	61.4	80.7	0.2	0.0	0.2	0.0	0.9	1.1	8.0	12.8	11.6	14.8	418	29.1	73.9	2.65	1.38	30.1
	<b>Crop Year Average</b>																			
HRW	<b>2021</b>	37	59.6	78.5	0.3	0.0	0.0	0.0	1.0	1.1	8.0	13.0			387	28.4	74.1	2.60	1.38	30.0
HRW	<b>2020</b>	69	62.9	82.6	0.3	0.0	0.0	0.0	0.4	0.5	9.3	11.4			351	36.7	67.6	2.87	1.40	26.8
HRS	NC	8	62.1	81.7	0.0	0.0	0.2	0.0	0.7	0.9	8.6	14.4	13.4	15.4	376	30.6	71.8	2.74	1.68	37.1
HRS	NE	2	61.9	81.3	0.3	0.0	0.0	0.0	0.7	0.7	8.9	16.7	16.6	16.8	335	22.8	80.0	2.46	1.55	44.9
HRS	C	5	61.8	81.3	0.3	0.0	0.0	0.2	0.7	0.9	8.6	15.0	13.5	16.1	409	30.1	77.5	2.70	1.62	36.4
	<b>Crop Year Average</b>																			
HRS	<b>2021</b>	10	61.7	81.2	0.2	0.0	0.0	0.1	0.7	0.8	8.5	15.1			390	28.9	76.0	2.66	1.62	37.9
HRS	<b>2020</b>	65	62.8	82.5	0.5	0.0	0.1	0.0	0.4	0.5	9.2	14.1			380	32.6	72.1	2.78	1.60	35.6

# Distributions

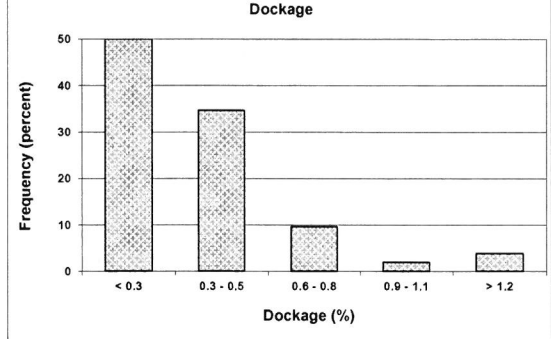
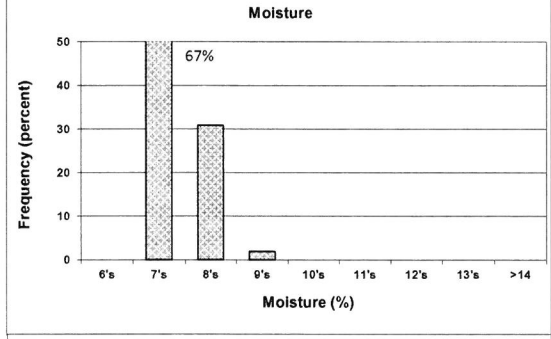
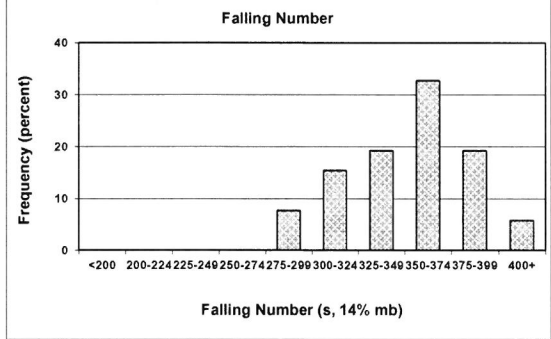
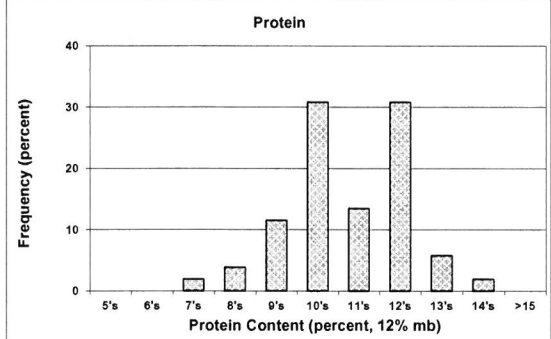
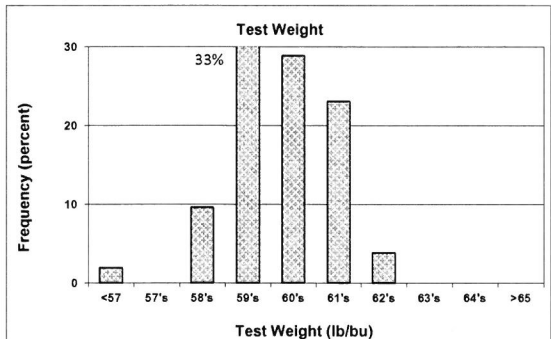
## SOFT WHITE WHEAT

191 SAMPLES



## WHITE CLUB WHEAT

52 SAMPLES



Prepared by: Wheat Marketing Center, Portland, Oregon