



2021 PACIFIC NORTHWEST CROP QUALITY REPORT

WEEK 5: August 19, 2021

We received and tested 406 samples so far for the Pacific Northwest 2021 wheat harvest.

Of the 99 wheat samples received for the fifth week, 86 were soft white (SWH), 9 were hard red winter (HRW), 3 were hard red spring (HRS), and 1 was western white (WWH). Twenty-seven samples (27%) came from District 14 (Southeastern Idaho); 15 (15%) were from District 12 (Western Oregon); 12 (12%) each were from Districts 8 (East Central Washington) and 9 (Northeastern Washington), 11 (11%) were from District 4 (North Central Oregon); and fewer than 10 each were from Districts 5 (Northeastern Oregon), 6 (Western Washington), 10 (Southeastern Washington), and 11 (Northern Idaho).

USDA Economic Statistics Districts (Table 1) showed the following:

SWH average test weight was 59.6 lb/bu down from 61.9 lb/bu last year, average moisture was 8.5% down from 9.2% last year, average protein (12% mb) was 11.1% up from 9.8% last year, and average falling number value was 344 seconds up from 323 seconds last year. SWH samples had light thousand kernel weight and small kernel size. The highest SWH whole meal wet gluten value (14% mb) was shown in District 9 at 29.8% followed by Districts 6 and 7 at 29.0% with 12.6 and 11.4% protein content (12% mb), respectively. No new WHCB was received this week. So far, WHCB weighted averages showed 7.8% wheat moisture, 11.2% (12% mb) wheat protein, and 348 seconds (14% mb) falling number value. HRW and HRS weighted averages indicated lower test weights, lower moistures, higher protein contents, and higher falling number values compared to last year.

We continue to report results from 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. This week samples came from all Zones.

Samples received for year-to-date, the SWH average protein (12% mb) was the highest for Zone NE (11.7%) followed by NC (11.6%), and the lowest for Zone SW at 9.4%. The WHCB average protein (12% mb) was the highest at 12.9% for Zone NE with one sample, followed by 11.3% for Zone NC.



BY USDA ECONOMIC STATISTICS DISTRICTS

Table 1

2021 CROP WEEK 5: August 19, 2021																				
		Grading Data										Quality Data								
Class	District	Number of Samples	Test Weight (lbibu)	Test Weight (kg/hl)	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	1/2	15	61.6	81.0	0.5	0.0	0.0	0.0	0.7	0.7	10.5	9.4	7.5	11.8	332	36.0	33.0	2.75	1.45	19.3
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	47	59.6	78.5	0.5	0.0	0.1	0.0	0.8	1.0	8.2	11.3	8.6	14.0	345	28.1	38.4	2.52	1.37	28.3
SWH	5	20	59.7	78.6	0.3	0.0	0.0	0.0	0.8	0.8	8.4	10.0	7.2	12.2	334	29.9	33.4	2.59	1.49	23.2
SWH	6/7	9	59.7	78.5	0.3	0.0	0.0	0.1	1.1	1.2	8.6	11.4	9.4	12.5	340	26.6	32.0	2.48	1.31	29.0
SWH	8	79	59.7	78.5	0.3	0.0	0.0	0.0	1.0	1.0	7.8	11.4	7.7	13.8	351	28.5	39.6	2.50	1.29	27.2
SWH	9	13	56.2	74.0	1.1	0.0	0.1	0.2	2.6	2.8	9.5	12.6	10.0	14.3	349	22.1	34.5	2.38	1.55	29.8
SWH	10	27	59.6	78.4	0.2	0.0	0.0	0.0	1.0	1.0	7.9	11.6	9.3	13.9	348	27.0	38.5	2.48	1.35	27.6
SWH	11	26	59.0	77.7	0.4	0.0	0.0	0.0	1.1	1.1	8.4	11.6	9.4	14.1	352	26.0	34.9	2.43	1.41	27.4
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	29	60.0	78.9	0.4	0.0	0.0	0.0	0.5	0.5	10.2	10.7	9.0	12.8	328	34.4	25.3	2.67	1.64	20.0
	Crop Year Average																			
SWH	2021	277	59.6	78.5	0.4	0.0	0.0	0.0	1.0	1.0	8.5	11.1			344	29.3	35.4	2.54	1.41	25.7
SWH	2020	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	—
	Crop Year Average																			
WHCB	2021	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	2020	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	20	61.0	80.2	0.1	0.0	0.0	0.1	0.8	0.9	8.0	12.7	9.2	14.6	400	30.2	72.7	2.69	1.41	30.3
HRW	10	5	59.9	78.8	0.2	0.0	0.0	0.0	0.9	1.0	7.8	12.8	11.5	13.9	353	27.5	75.3	2.55	1.29	27.8
HRW	11	13	57.9	76.2	0.5	0.0	0.0	0.0	1.2	1.2	8.1	13.4	11.8	14.3	371	25.0	74.8	2.48	1.36	29.5
HRW	14	6	58.1	76.5	0.6	0.0	0.0	0.0	1.0	1.0	9.1	12.8	11.4	14.4	349	31.6	69.9	2.74	1.70	30.9
	Crop Year Average																			
HRW	2021	56	59.9	78.8	0.3	0.0	0.0	0.0	0.9	1.0	8.2	12.9			390	28.9	73.4	2.63	1.42	30.1
HRW	2020	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	6	62.3	81.9	0.2	0.0	0.3	0.0	1.5	1.8	8.9	14.7	13.6	16.3	371	28.9	71.7	2.65	1.77	36.8
HRS	10	3	59.5	78.2	0.4	0.0	0.0	0.1	2.9	3.0	8.1	15.6	14.2	17.1	410	20.7	83.0	2.50	1.77	39.1
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
	Crop Year Average																			
HRS	2021	18	61.5	80.9	0.2	0.0	0.1	0.1	1.3	1.5	8.6	15.1			388	27.5	75.9	2.63	1.69	38.0
HRS	2020	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



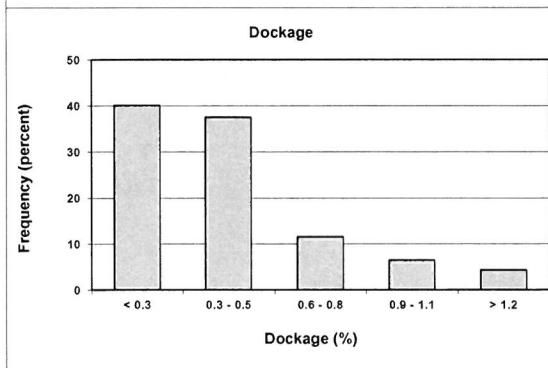
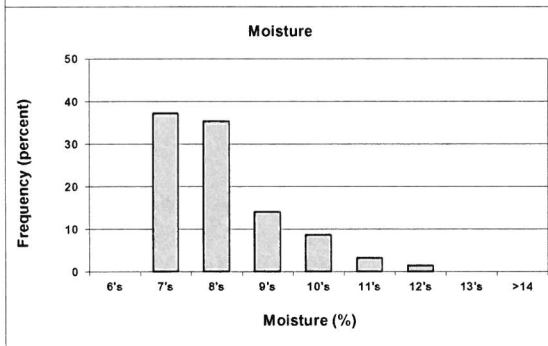
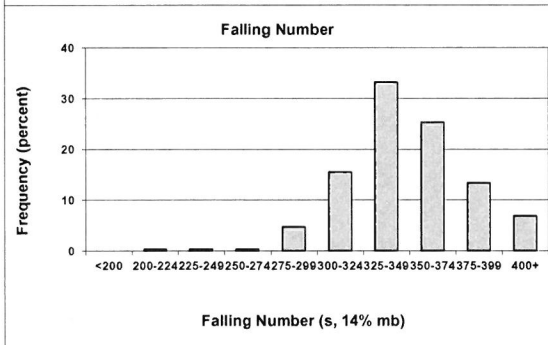
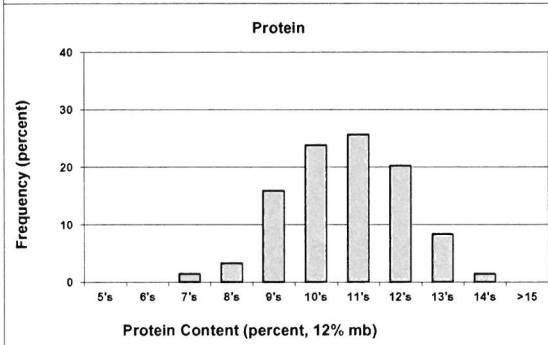
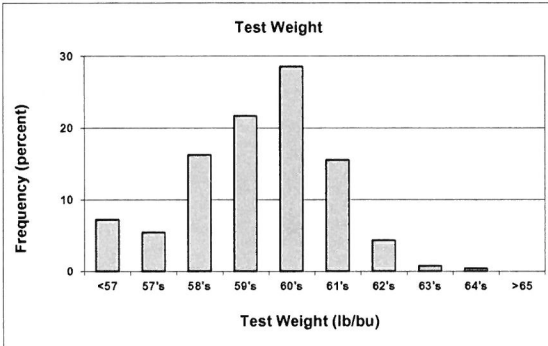
BY PRODUCTION ZONES

Table 2

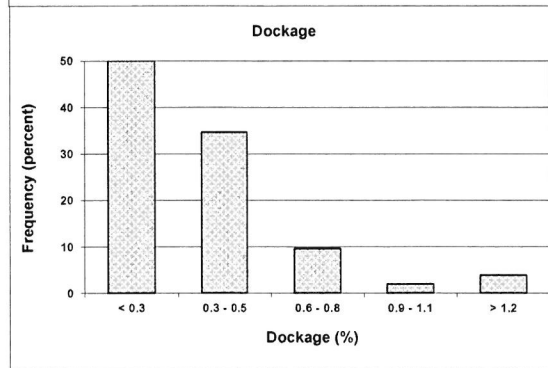
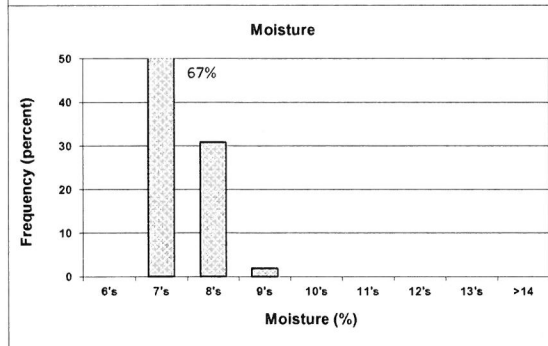
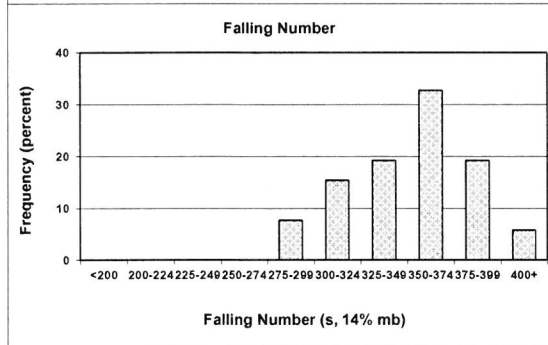
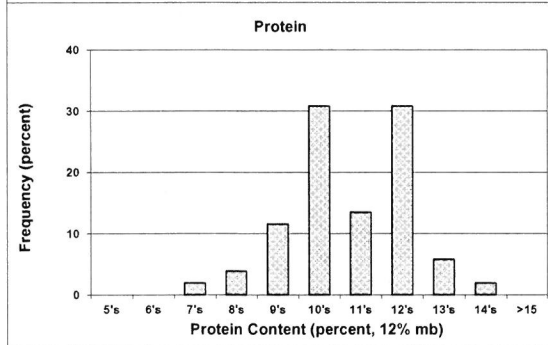
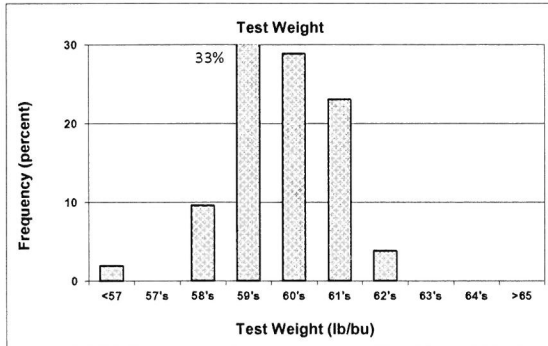
2021 CROP WEEK 5: August 19, 2021																					
Class	District	Number of Samples	Grading Data									Quality Data									
			Test Weight (lb/bu)	Test Weight (kg/H)	Dockage (%)	Heat Damage (%)	Total Damage (%)	Foreign Material (%)	Shrunk & Broken (%)	Total Defects (%)	Molature (%)	Protein (% 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	NW	1	59.2	77.9	0.5	0.0	0.0	0.0	1.4	1.4	8.7	10.6	10.6	10.6	352	26.1	29.6	2.47	1.49	24.9	
SWH	NC	97	59.6	78.4	0.3	0.0	0.0	0.0	1.0	1.0	7.8	11.6	7.7	13.9	357	28.1	36.9	2.49	1.30	27.7	
SWH	NE	51	58.6	77.1	0.6	0.0	0.0	0.0	1.4	1.4	8.6	11.7	9.4	14.3	347	25.4	36.3	2.43	1.42	27.5	
SWH	C	72	59.7	78.5	0.4	0.0	0.1	0.0	0.8	1.0	8.3	10.9	7.2	14.0	340	28.6	36.6	2.54	1.40	26.9	
SWH	SW	15	61.6	81.0	0.5	0.0	0.0	0.0	0.7	0.7	10.5	9.4	7.5	11.8	332	36.0	33.0	2.75	1.45	19.3	
SWH	SE	41	60.2	79.2	0.4	0.0	0.0	0.0	0.5	0.5	9.8	10.5	9.0	12.8	332	35.8	25.4	2.71	1.66	19.2	
	Crop Year Average																				
SWH	2021	277	59.626	78.456	0.4	0.0	0.0	0.0	1.0	1.0	8.5	11.1			344	29.3	35.4	2.54	1.41	25.7	
SWH	2020	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	—	
	Crop Year Average																				
WHCB	2021	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	2020	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	27	60.7	79.8	0.1	0.0	0.0	0.1	0.9	1.0	8.0	12.9	9.2	16.3	402	30.2	73.4	2.67	1.42	30.6	
HRW	NE	16	58.6	77.1	0.4	0.0	0.0	0.0	1.1	1.1	8.2	13.1	11.5	14.3	370	25.7	74.3	2.50	1.34	28.9	
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	
HRW	SE	6	58.1	76.5	0.6	0.0	0.0	0.0	1.0	1.0	9.1	12.8	11.4	14.4	349	31.6	69.9	2.74	1.70	30.9	
	Crop Year Average																				
HRW	2021	56	59.9	78.8	0.3	0.0	0.0	0.0	0.9	1.0	8.2	12.9			390	28.9	73.4	2.63	1.42	30.1	
HRW	2020	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	9	62.2	81.8	0.1	0.0	0.2	0.0	1.2	1.4	8.6	14.6	13.4	16.3	379	28.9	72.4	2.68	1.71	36.9	
HRS	NE	4	59.7	78.5	0.4	0.0	0.0	0.1	2.4	2.5	8.4	16.5	15.5	17.1	374	21.1	82.0	2.43	1.74	42.3	
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	
	Crop Year Average																				
HRS	2021	18	61.5	80.9	0.2	0.0	0.1	0.1	1.3	1.5	8.6	15.1			388	27.5	75.9	2.63	1.69	38.0	
HRS	2020	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
277 SAMPLES



WHITE CLUB WHEAT
52 SAMPLES



Prepared by: Wheat Marketing Center, Portland, Oregon