



## 2021 PACIFIC NORTHWEST CROP QUALITY REPORT

WEEK 8 FINAL: September 9, 2021

This is the final weekly report for the 2021 Pacific Northwest wheat harvest survey. We have received and tested 572 samples. Sincere gratitude is extended to the Federal Grain Inspection Service Portland Field Office for prompt grading and protein analysis, the PNW wheat growers, and PNW state and private grain inspection organizations for their generous cooperation in the sample collection. Special thanks go to Idaho Wheat Commission, Oregon Wheat Commission, and Washington Grain Commission for funding this project.

Of the 572 samples received this year, 375 were soft white (SWH), 67 were white club (WHCB), 70 were hard red winter (HRW), 46 were hard red spring (HRS), 13 were hard white (HDWH), and one was western white wheat (WWH).

Soft white wheat crop weighted averages had the following differences when compared to 2020. Test weight was lower at 59.3 lb/bu (78.1 kg/hl). Wheat moisture content decreased to 8.8% from 9.2% last year. Wheat protein (12% mb) increased to 11.3% from 9.8% last year. Falling number value (14% mb) was higher at 344 seconds. Thousand kernel weight (14% mb) was lighter than last year at 29.0g and kernel size was smaller at 2.54mm than last year. Kernel hardness was similar and wheat ash content was higher than last year.

White club wheat crop weighted averages had the following differences from 2020. Test weight decreased to 59.7 lb/bu (78.5 kg/hl) from 61.6 lb/bu (81.0 kg/hl) last year. Wheat moisture decreased to 8.0% from 8.5% last year. Wheat protein (12% mb) increased to 11.5% from 9.8% last year. Falling number value (14% mb) was higher at 345 seconds. Whole meal wet gluten (14% mb) increased to 25.9% from 18.0% last year.

Hard red winter wheat crop weighted averages had the following highlights when compared to 2020. Test weight was lower at 59.1 lb/bu. Wheat moisture decreased to 8.6% from 9.3% last year. Wheat protein (12% mb) increased to 13.0% from 11.4% last year and falling number value (14% mb) increased to 393 seconds from 351 seconds last year. Whole meal wet gluten (14% mb) increased to 29.8% from 26.8% last year; thousand kernel weight (14% mb) and kernel size were lighter and smaller than last year, respectively.

Hard red spring wheat crop weighted averages follow similar trends as HRW with lower test weight, higher protein, and lighter and smaller kernels compared to last year.

Thank you all for your support. We have started to make SWH and WHCB composites to perform Buhler milling, various flour, and finished product tests for the US Wheat Associates 2021 Crop Quality Report as well as the 2021 U.S. Pacific Northwest Soft White Wheat Quality Report.





**BY PRODUCTION ZONES**

**Table 2**

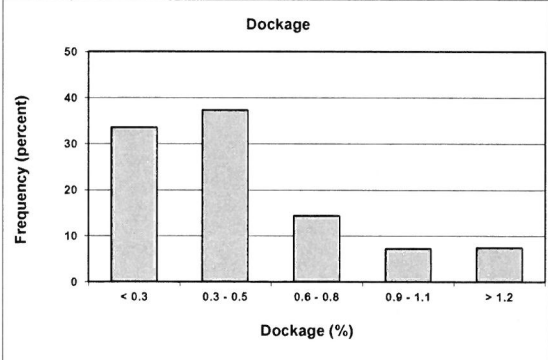
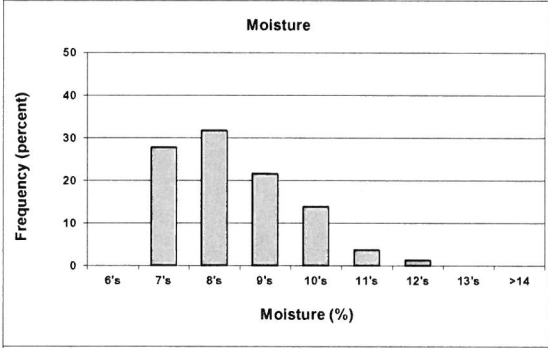
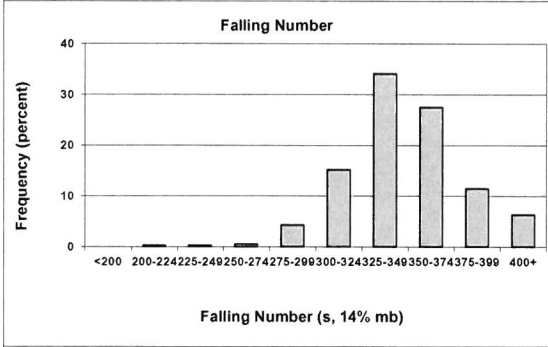
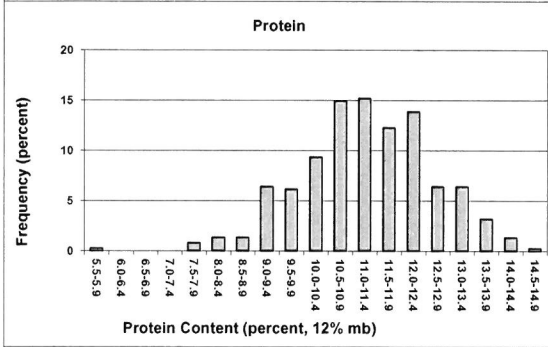
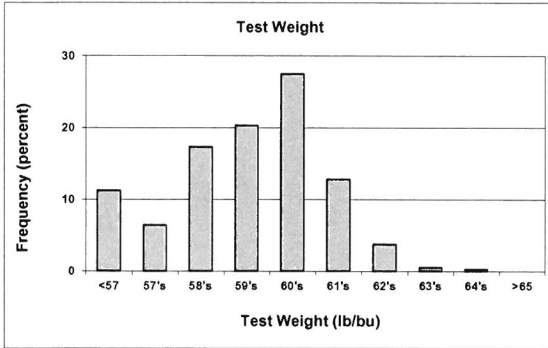
2021 CROP WEEK 8 Final: September 9, 2021

		Grading Data										Quality Data								
Class	District	Number of Samples	Test Weight (lbbu)	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	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	38.9	2.49	1.30	27.7
SWH	NE	83	58.8	77.3	0.7	0.0	0.0	0.0	1.3	1.4	9.0	11.7	9.4	14.3	346	25.0	30.7	2.45	1.46	28.6
SWH	C	105	59.2	77.9	0.5	0.0	0.1	0.0	1.0	1.1	8.5	11.2	7.2	15.4	345	27.7	35.3	2.52	1.54	27.5
SWH	SW	21	61.1	80.4	0.6	0.0	0.0	0.0	1.1	1.2	10.4	9.5	5.5	15.6	339	35.5	34.6	2.74	1.45	20.0
SWH	SE	67	59.3	78.1	0.6	0.0	0.1	0.0	0.5	0.6	10.1	10.8	9.0	14.1	329	35.1	21.7	2.71	1.65	21.2
	<b>Crop Year Average</b>																			
SWH	<b>2021</b>	375	59.3	78.1	0.5	0.0	0.0	0.0	1.0	1.1	8.8	11.3			344	29.0	32.7	2.54	1.48	26.2
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	53	60.2	79.1	0.4	0.0	0.0	0.1	1.2	1.3	7.9	11.3	8.9	14.2	351	28.0	39.1	2.44	1.31	24.9
WHCB	NE	9	57.5	75.8	1.2	0.0	0.0	0.0	3.8	3.9	8.5	12.9	10.8	15.8	325	22.2	39.3	2.28	1.49	32.4
WHCB	C	5	58.5	77.1	0.5	0.0	0.2	0.1	1.4	1.6	8.5	10.6	7.8	13.4	308	26.5	28.2	2.46	1.54	24.5
	<b>Crop Year Average</b>																			
WHCB	<b>2021</b>	67	59.7	78.5	0.5	0.0	0.0	0.1	1.6	1.7	8.0	11.5			345	27.1	38.3	2.42	1.35	25.9
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	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	8	60.5	79.6	0.6	0.0	0.2	0.0	1.2	1.5	8.1	12.9	11.6	14.8	414	28.1	69.0	2.59	1.39	30.0
HRW	SE	20	56.6	74.5	0.6	0.0	0.0	0.3	0.8	1.1	10.0	13.0	10.1	14.8	385	30.3	60.9	2.73	1.66	29.5
	<b>Crop Year Average</b>																			
HRW	<b>2021</b>	70	59.1	77.7	0.3	0.0	0.0	0.1	0.9	1.0	8.6	13.0			393	29.1	70.1	2.65	1.47	29.8
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	18	60.4	79.4	0.4	0.0	0.1	0.0	2.5	2.6	8.9	16.0	13.4	18.4	362	26.6	69.8	2.59	1.70	41.7
HRS	NE	15	59.4	78.2	0.5	0.0	0.0	0.0	1.6	1.7	9.3	16.2	11.1	17.9	359	22.0	74.2	2.47	1.61	39.4
HRS	C	6	61.5	80.9	0.4	0.0	0.0	0.2	0.7	0.9	8.6	14.9	13.5	16.1	424	28.6	77.0	2.66	1.57	36.3
HRS	SE	7	60.5	79.5	0.6	0.0	0.0	0.0	0.3	0.3	11.0	15.4	14.7	17.4	380	30.9	71.5	2.69	1.71	38.0
	<b>Crop Year Average</b>																			
HRS	<b>2021</b>	46	60.2	79.2	0.5	0.0	0.1	0.1	1.6	1.7	9.3	15.8			373	26.0	72.4	2.57	1.66	39.7
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

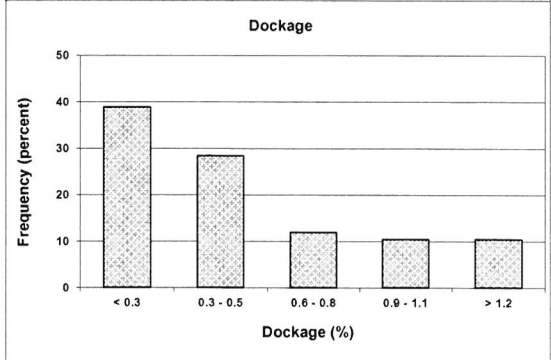
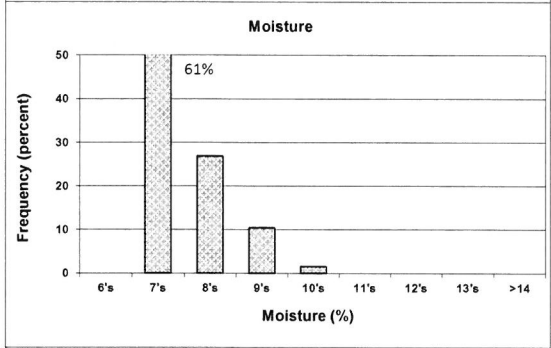
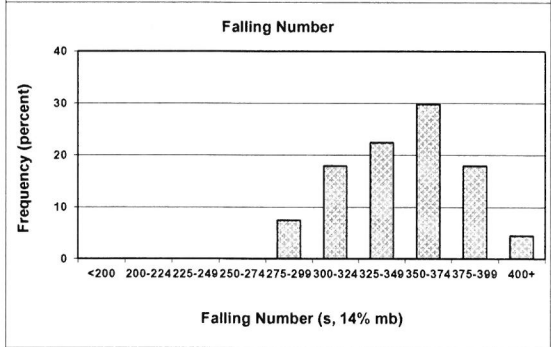
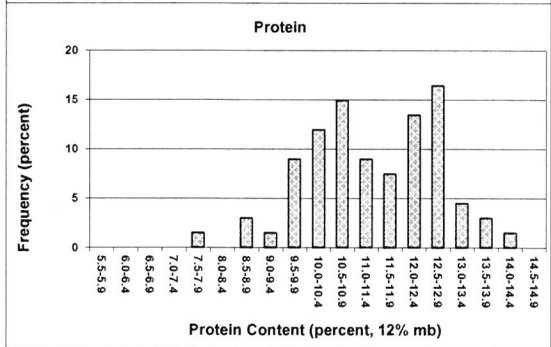
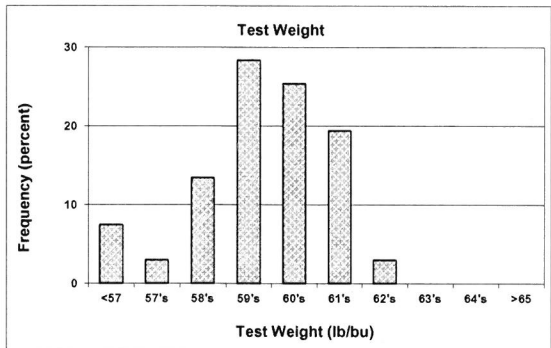
**SOFT WHITE WHEAT**

375 SAMPLES



**WHITE CLUB WHEAT**

67 SAMPLES



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