



2017 PACIFIC NORTHWEST CROP QUALITY REPORT

WEEK 7 FINAL: September 7, 2017

This is the final weekly report for the 2017 Pacific Northwest wheat harvest survey. We have received and tested 794 samples. Sincere gratitude is extended to all who are involved with this year's sample collection, the Federal Grain Inspection Service Portland Field Office for grading, and 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 794 samples received this year, 512 were soft white (SWH), 96 were white club (WHCB), 93 were hard red winter (HRW), 75 were hard red spring (HRS), and 18 were hard white (HDWH).

Soft white wheat crop weighted averages had the following differences when compared to the 2016. Test weight was higher at 60.9 lb/bu (80.0 kg/hl). Wheat moisture content decreased to 8.9% from 9.8% last year. Wheat protein (12% mb) decreased to 9.6% from 10.1% last year. Falling number value (14% mb) was 335 seconds. Thousand kernel weight (14% mb) and kernel size increased from last year. Kernel hardness was lower and wheat ash content was higher than last year.

White club wheat crop weighted averages had the following differences from the 2016. Test weight decreased to 60.2 lb/bu (79.2 kg/hl) from 60.8 lb/bu (79.9 kg/hl) last year. Wheat moisture decreased to 8.3% from 9.6% last year. Wheat protein (12% mb) decreased to 9.4% from 9.9% last year. Falling number value (14% mb) was 348 seconds. Whole meal wet gluten (14% mb) was decreased to 17.1% from 19.4% last year.

Hard red winter wheat crop weighted averages had the following highlights when compared to 2016. Test weight increased to 62.4 lb/bu from 61.8 lb/bu last year. Wheat moisture decreased to 8.4% from 9.1% last year. Wheat protein (12% mb) slightly increased to 11.5% from 11.4% last year, falling number value (14% mb) increased to 387 seconds from 366 seconds last year, whole meal wet gluten increased to 24.8% from 24.1% last year, and thousand kernel weight (14% mb) and kernel size were higher than last year.

Hard red spring wheat crop weighted averages were similar to last year with the exception of increased wheat protein (12% mb) at 14.6%.

Thank you all for your support. We have started to make SWH and WHCB composites to perform various flour and finished product tests for US Wheat Associates' 2017 Crop Quality Report as well as 2017 U.S. Pacific Northwest Soft White Wheat Quality Report.



BY USDA ECONOMIC STATISTICS DISTRICTS

Table 1

2017 CROP WEEK 7 Final, September 7, 2017																				
			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	1/2	31	59.6	78.4	0.6	0.0	0.0	0.1	0.6	0.7	10.3	8.4	6.9	10.1	354	37.2	25.3	2.80	1.32	16.5
SWH	4	129	60.1	79.1	0.5	0.0	0.0	0.0	0.4	0.5	9.0	9.7	6.7	15.1	317	34.2	31.5	2.74	1.28	21.3
SWH	5	29	61.0	80.2	0.4	0.0	0.0	0.5	0.5	1.0	8.3	9.0	7.1	13.3	320	36.7	35.7	2.81	1.32	16.4
SWH	6/7	14	61.1	80.3	0.3	0.0	0.0	0.1	0.5	0.6	9.0	9.6	8.0	12.8	327	35.7	24.8	2.71	1.31	18.0
SWH	8	104	60.8	79.2	0.4	0.0	0.0	0.0	0.8	0.8	8.6	9.8	7.3	13.3	344	33.6	29.5	2.66	1.29	20.8
SWH	9	11	60.6	79.7	0.5	0.0	0.5	0.0	0.7	1.3	9.1	9.7	8.0	11.1	330	34.1	26.9	2.68	1.25	19.8
SWH	10	94	62.3	81.9	0.4	0.0	0.0	0.0	0.4	0.5	8.4	9.6	7.9	11.1	341	36.7	32.6	2.79	1.28	20.8
SWH	11	40	61.8	81.3	0.5	0.0	0.0	0.0	0.5	0.5	8.4	9.6	7.6	11.4	352	34.9	26.5	2.76	1.40	20.8
SWH	12	10	60.9	80.2	0.8	0.0	0.0	0.0	0.2	0.2	10.0	8.9	8.0	10.4	326	46.3	25.8	3.03	1.51	17.2
SWH	13	12	61.5	80.9	0.3	0.0	0.0	0.0	0.5	0.5	9.3	9.6	7.9	11.2	314	40.7	27.9	2.90	1.45	19.1
SWH	14	38	60.5	79.6	0.7	0.0	0.0	0.0	0.5	0.6	9.8	9.9	8.0	12.9	342	36.5	28.9	2.80	1.49	20.2
	Crop Year Average																			
SWH	2017	512	60.9	80.0	0.5	0.0	0.0	0.1	0.5	0.6	8.9	9.6			335	35.5	30.1	2.75	1.32	20.2
SWH	2016	402	60.8	80.0	0.6	0.0	0.1	0.0	0.6	0.6	9.8	10.1			314	36.3	31.1	2.75	1.28	22.1
WHCB	4	2	63.6	83.5	0.3	0.0	0.0	0.0	0.4	0.4	8.3	10.2	9.9	10.4	357	31.0	44.2	2.72	1.18	21.2
WHCB	6/7	3	57.6	75.9	0.6	0.0	0.0	0.4	1.8	2.1	8.2	8.4	7.0	9.5	333	31.4	22.7	2.48	1.38	15.0
WHCB	8	72	60.1	79.1	0.5	0.0	0.0	0.0	0.9	1.0	8.2	9.5	6.5	13.2	346	33.3	28.9	2.56	1.25	17.3
WHCB	10	8	61.4	80.8	0.7	0.0	0.0	0.0	1.1	1.1	8.6	9.1	8.0	10.8	381	31.0	37.4	2.63	1.26	15.4
WHCB	11	11	60.0	78.9	0.6	0.0	0.0	0.1	1.5	1.6	8.3	9.3	8.8	10.1	342	28.9	36.8	2.55	1.39	17.0
	Crop Year Average																			
WHCB	2017	96	60.2	79.2	0.5	0.0	0.0	0.0	1.0	1.1	8.3	9.4			348	32.5	30.6	2.56	1.27	17.1
WHCB	2016	66	60.8	79.9	0.8	0.0	0.0	0.0	0.8	0.9	9.6	9.9			301	33.7	34.5	2.57	1.18	19.4
HRW	4	14	61.7	81.2	0.3	0.0	0.1	0.0	0.7	0.8	8.1	11.8	10.4	14.3	385	33.7	71.8	2.78	1.20	26.3
HRW	5	12	61.8	81.2	0.4	0.0	0.0	0.0	0.3	0.4	8.7	12.9	11.4	14.4	383	37.3	70.0	2.94	1.46	28.3
HRW	6/7	7	62.3	81.9	0.5	0.0	0.0	0.0	0.5	0.5	8.7	11.9	11.1	14.0	410	34.0	72.6	2.75	1.27	26.9
HRW	8	17	62.7	82.5	0.3	0.0	0.0	0.0	0.6	0.6	8.7	12.0	10.9	12.9	402	35.6	67.0	2.82	1.36	26.8
HRW	10	18	63.2	83.1	0.4	0.0	0.0	0.0	0.4	0.4	8.1	10.7	7.6	12.9	385	36.8	68.1	2.83	1.28	21.6
HRW	11	16	62.8	82.6	0.2	0.0	0.0	0.0	0.5	0.5	8.1	10.6	8.5	12.1	386	35.3	69.0	2.83	1.37	23.0
HRW	13	6	61.2	80.5	0.4	0.0	0.0	0.0	0.7	0.7	8.9	11.9	10.8	12.8	375	33.5	72.9	2.77	1.53	21.4
HRW	14	3	61.8	81.3	1.0	0.0	0.0	0.0	0.7	0.7	8.9	10.7	8.3	13.2	331	30.0	75.1	2.67	1.49	22.6
	Crop Year Average																			
HRW	2017	93	62.4	82.0	0.4	0.0	0.0	0.0	0.5	0.5	8.4	11.5			387	35.3	69.7	2.82	1.34	24.8
HRW	2016	69	61.8	81.3	0.6	0.0	0.0	0.0	0.7	0.7	9.1	11.4			366	34.5	68.8	2.78	1.38	24.1
HRS	4	14	62.3	81.9	0.2	0.0	0.1	0.0	0.3	0.4	8.9	14.5	13.6	16.0	368	33.3	73.5	2.86	1.47	37.8
HRS	5	1	62.3	81.9	0.2	0.0	0.0	0.0	0.9	0.9	8.3	13.5	13.5	13.5	434	37.2	70.1	2.93	1.78	34.1
HRS	6/7	3	64.3	84.5	0.3	0.0	0.0	0.0	0.1	0.1	9.6	15.5	15.0	15.8	383	40.6	56.1	3.07	1.48	36.0
HRS	8	17	62.1	81.6	0.3	0.0	0.0	0.0	0.9	0.9	8.8	15.1	11.9	17.3	368	34.5	68.2	2.87	1.56	39.5
HRS	9	4	61.525	80.9	0.5	0.0	0.0	0.0	0.9	0.9	9.2	12.8	11.7	13.8	328	30.4	66.4	2.68	1.45	27.5
HRS	10	10	63.1	82.9	0.4	0.0	0.0	0.0	1.2	1.2	8.5	14.0	12.0	15.3	396	33.0	73.5	2.75	1.42	33.8
HRS	11	10	59.9	78.8	0.8	0.0	0.2	0.1	2.2	2.5	9.1	14.7	12.5	16.3	437	26.0	78.7	2.55	1.57	30.5
HRS	12	1	62.9	82.7	0.5	0.0	0.0	0.0	0.4	0.4	8.3	13.6	13.6	13.6	359	32.6	71.9	2.87	1.55	35.7
HRS	13	2	61.7	81.1	0.6	0.0	0.0	0.0	0.3	0.3	8.4	14.2	12.9	15.5	394	28.7	78.1	2.71	1.59	34.0
HRS	14	12	62.9	82.7	0.5	0.0	0.0	0.0	0.3	0.4	10.2	14.9	14.0	16.3	387	35.6	75.5	2.92	1.57	35.0
	Crop Year Average																			
HRS	2017	74	62.2	81.7	0.4	0.0	0.1	0.0	0.8	0.9	9.1	14.6			384	33.0	72.3	2.81	1.52	35.4
HRS	2016	61	62.3	81.9	0.5	0.0	0.0	0.0	0.7	0.8	9.0	14.1			369	32.7	74.5	2.76	1.46	32.7



BY PRODUCTION ZONES

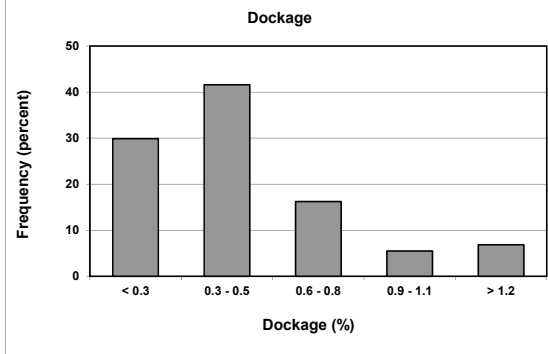
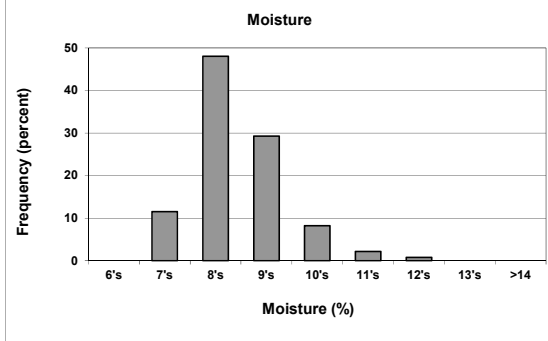
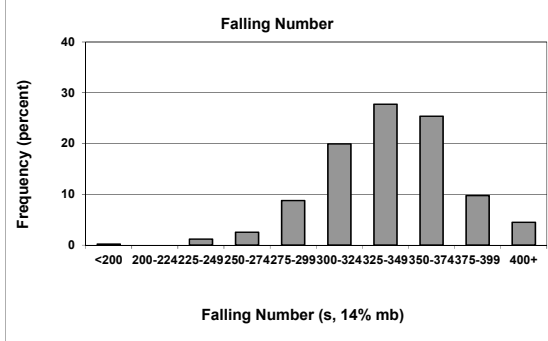
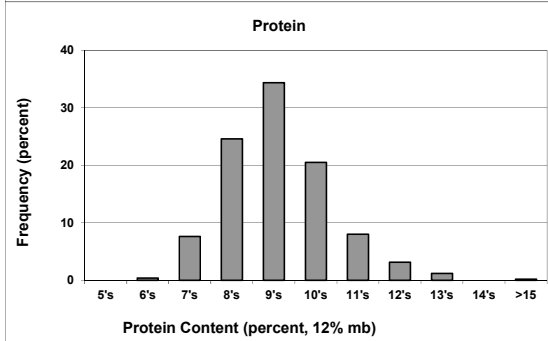
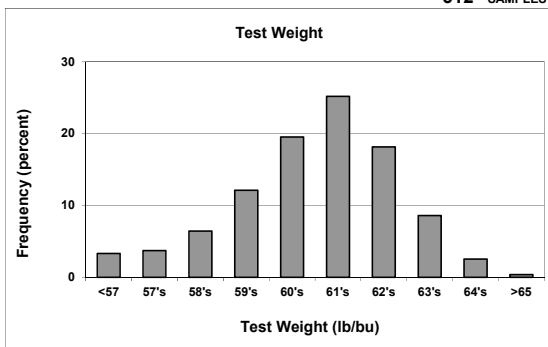
Table 2

2017 CROP WEEK 7 Final, September 7, 2017																				
Class	District	Number of Samples	Grading Data								Quality Data									
			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 (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	125	61.0	79.6	0.4	0.0	0.0	0.0	0.7	0.7	8.6	9.8	7.3	13.3	346	34.2	29.4	2.68	1.28	20.7
SWH	NE	121	62.0	81.5	0.5	0.0	0.1	0.0	0.5	0.5	8.5	9.6	7.6	11.4	345	35.7	30.3	2.77	1.33	20.6
SWH	C	175	60.4	79.5	0.5	0.0	0.0	0.1	0.5	0.6	8.8	9.6	6.7	15.1	319	34.9	31.9	2.75	1.29	20.4
SWH	SW	31	59.6	78.4	0.6	0.0	0.0	0.1	0.6	0.7	10.3	8.4	6.9	10.1	354	37.2	25.3	2.80	1.32	16.5
SWH	SE	60	60.8	80.0	0.6	0.0	0.0	0.0	0.5	0.5	9.7	9.6	7.9	12.9	333	39.0	28.2	2.86	1.48	19.5
	Crop Year Average																			
SWH	2017	512	60.9	80.0	0.5	0.0	0.0	0.1	0.5	0.6	8.9	9.6			335	35.5	30.1	2.75	1.32	20.2
SWH	2016	402	60.8	80.0	0.6	0.0	0.1	0.0	0.6	0.6	9.8	10.1			314	36.3	31.1	2.75	1.28	22.1
WHCB	NC	76	60.1	79.1	0.5	0.0	0.0	0.0	1.0	1.0	8.2	9.5	6.5	13.2	348	33.2	29.3	2.56	1.26	17.3
WHCB	NE	17	60.5	79.6	0.6	0.0	0.0	0.1	1.2	1.3	8.5	9.1	8.0	10.1	349	29.8	35.7	2.58	1.34	16.4
WHCB	C	2	63.6	83.5	0.3	0.0	0.0	0.0	0.4	0.4	8.3	10.2	9.9	10.4	357	31.0	44.2	2.72	1.18	21.2
	Crop Year Average																			
WHCB	2017	96	60.2	79.2	0.5	0.0	0.0	0.0	1.0	1.1	8.3	9.4			348	32.5	30.6	2.56	1.27	17.1
WHCB	2016	66	60.8	79.9	0.8	0.0	0.0	0.0	0.8	0.9	9.6	9.9			301	33.7	34.5	2.57	1.18	19.4
HRW	NC	24	62.6	82.3	0.4	0.0	0.0	0.0	0.6	0.6	8.7	12.0	10.9	14.0	402	35.2	68.3	2.80	1.36	26.6
HRW	NE	30	63.1	82.9	0.3	0.0	0.0	0.0	0.4	0.5	8.0	10.5	7.6	12.1	386	36.0	67.9	2.83	1.33	21.9
HRW	C	21	61.7	81.1	0.4	0.0	0.1	0.0	0.6	0.6	8.5	12.4	10.7	14.4	386	35.5	72.5	2.83	1.34	27.6
HRW	SE	9	61.4	80.8	0.6	0.0	0.0	0.0	0.7	0.7	8.9	11.5	8.3	13.2	358	32.3	73.6	2.74	1.52	21.8
	Crop Year Average																			
HRW	2017	93	62.4	82.0	0.4	0.0	0.0	0.0	0.5	0.5	8.4	11.5			387	35.3	69.7	2.82	1.34	24.8
HRW	2016	69	61.8	81.3	0.6	0.0	0.0	0.0	0.7	0.7	9.1	11.4			366	34.5	68.8	2.78	1.38	24.1
HRS	NC	22	62.5	82.2	0.3	0.0	0.0	0.0	0.8	0.8	8.9	15.1	11.9	17.3	369	35.7	67.0	2.90	1.55	39.4
HRS	NE	21	61.2	80.5	0.6	0.0	0.1	0.1	1.4	1.6	9.0	14.1	11.7	16.3	398	29.0	74.5	2.63	1.48	31.2
HRS	C	17	62.5	82.2	0.3	0.0	0.1	0.0	0.6	0.7	8.8	14.5	13.3	16.0	379	33.6	73.1	2.86	1.50	36.2
HRS	SE	15	62.7	82.5	0.5	0.0	0.0	0.0	0.3	0.4	9.8	14.8	12.9	16.3	386	34.5	75.6	2.89	1.57	34.9
	Crop Year Average																			
HRS	2017	74	62.2	81.7	0.4	0.0	0.1	0.0	0.8	0.9	9.1	14.6			384	33.0	72.3	2.81	1.52	35.4
HRS	2016	61	62.3	81.9	0.5	0.0	0.0	0.0	0.7	0.8	9.0	14.1			369	32.7	74.5	2.76	1.46	32.7

Distributions

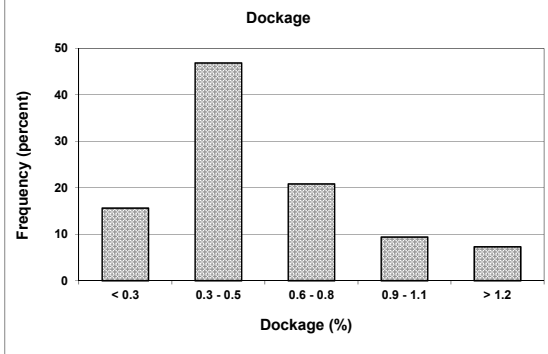
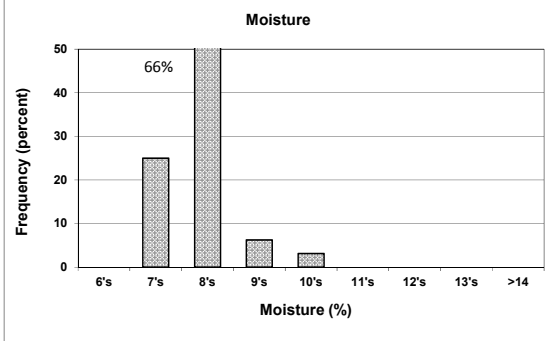
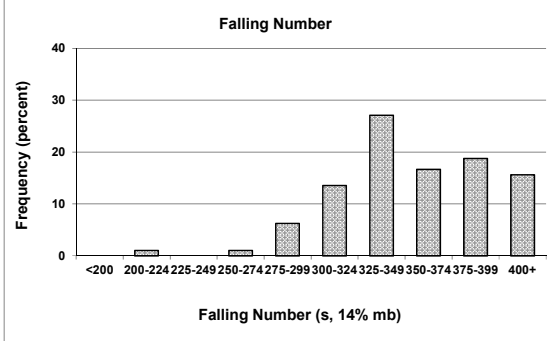
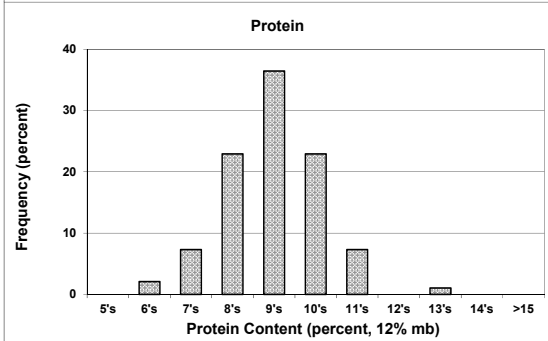
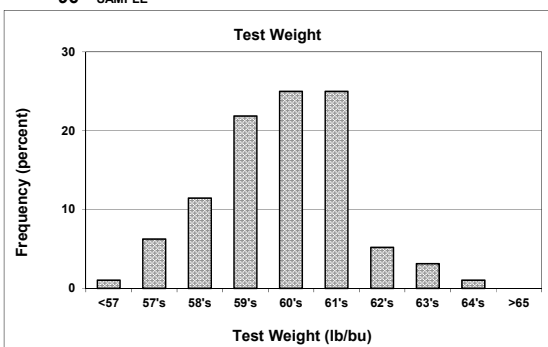
SOFT WHITE WHEAT

512 SAMPLES



WHITE CLUB WHEAT

96 SAMPLES



Prepared by: Wheat Marketing Center, Portland, Oregon