



2024 PACIFIC NORTHWEST CROP QUALITY REPORT

WEEK 5: August 29, 2024

We received and processed a total of 546 samples by the end of the fifth week reporting period for the 2024 Pacific Northwest wheat harvest.

SAMPLE DISTRIBUTION –

80 wheat samples were received in the fifth week – 42 soft white (SWH), 3 white club (WHCB), 13 hard red winter (HRW), 10 hard red spring (HRS) and 12 hard white (HDWH). 26 samples (33%) were from District 14, 17 (21%) were from District 13, 14 samples (18%) were from District 8, 11 samples (14%) were from District 12, and less than 10% each were from Districts 1, 2, 3, 4, 5, and 10. (Please refer to page 2 - USDA Economic Statistics Districts Map.)

USDA ECONOMIC STATISTICS DISTRICTS (TABLE 1) DATA –

SWH – Average **test weight** was 60.9 lb/bu (80.2 kg/hl), similar to the 5-year average of 60.8 lb/bu (80.0 kg/hl). Average **dockage** was 0.5%. Average **wheat moisture** content was 9.0%, similar to the 5-year average of 9.2%. Average **wheat protein** content (12% mb) was 9.2%, similar to last week's 9.1% and lower than the 5-year average of 10.3%. Average **falling number** value (14% mb) was 325 seconds, slightly lower than the 5-year average of 330 seconds. Average **thousand kernel weight** (14% mb) was 35.1 g, higher than the 5-year average of 33.8 g. Average **kernel size** was 2.72 mm, slightly larger than the 5-year average of 2.69 mm.

WHCB – Average **test weight** was 60.8 lb/bu (80.0 kg/hl), slightly higher than the 5-year average of 60.6 lb/bu (79.8 kg/hl). Average **wheat protein** content (12% mb) was 8.9%, lower than the 5-year average of 10.4%. Average **falling number** value (14% mb) was 329 seconds, lower than the 5-year average of 333 seconds. Average **thousand kernel weight** (14% mb) was 32.1 g, higher than the 5-year average of 30.1 g. Average **kernel size** was 2.64 mm, larger than the 5-year average of 2.52 mm.

HRW – Average **test weight** was 61.3 lb/bu (80.6 kg/hl), slightly lower than the 5-year average of 61.6 lb/bu (80.9 kg/hl). Average **wheat protein** content (12% mb) was 10.7%, lower than the 5-year average of 11.7%. **Thousand kernel weight** (14% mb) and **kernel size** were both higher than the 5-year averages.

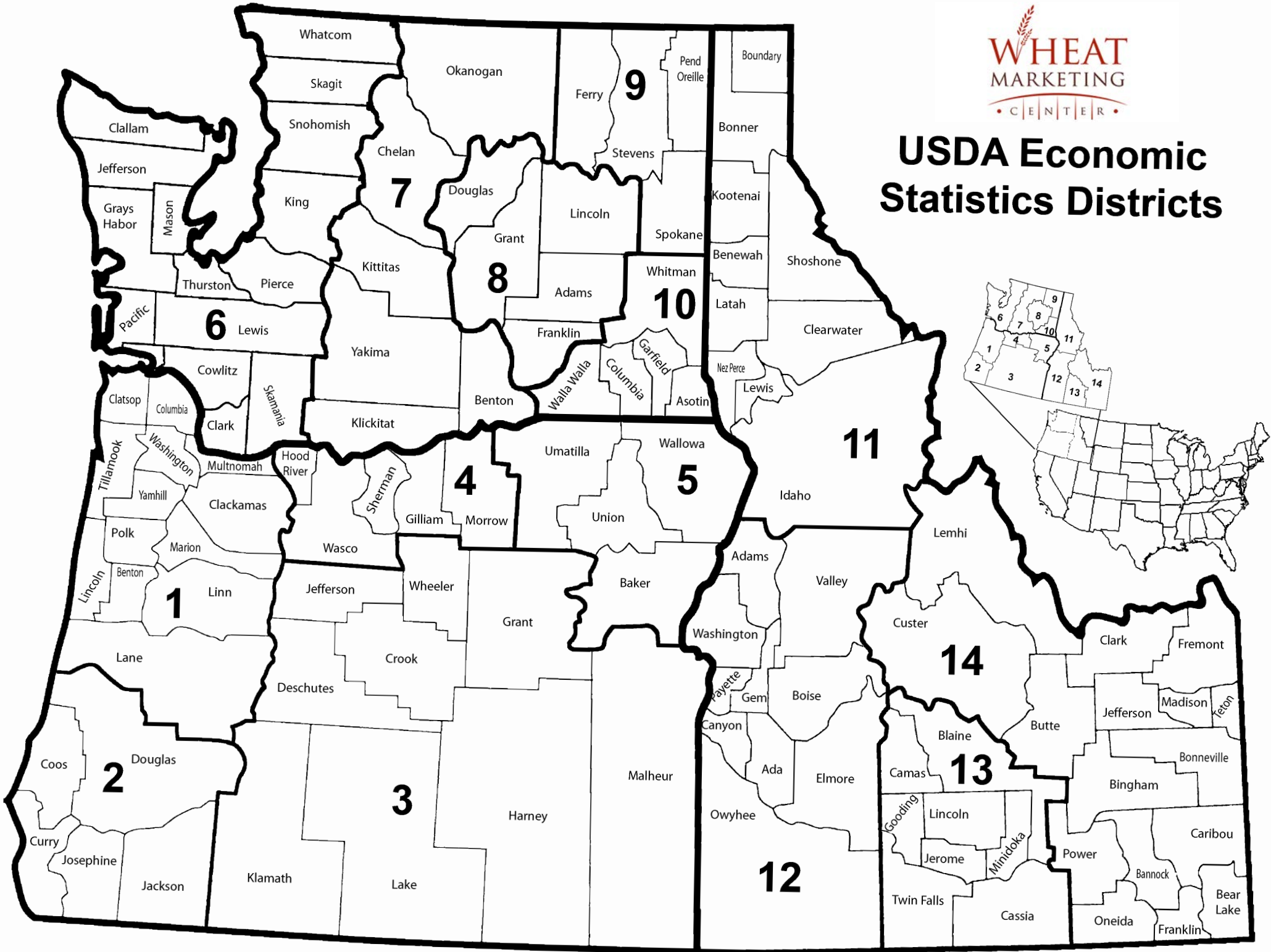
HRS – Average **test weight** was 61.5 lb/bu (80.9 kg/hl), lower than the 5-year average of 61.9 lb/bu (81.3 kg/hl). Average **wheat protein** content (12% mb) was 14.2%, lower than the 5-year average of 14.7%. **Thousand kernel weight** (14% mb) and **kernel size** were both higher than the 5-year averages.

PACIFIC NORTHWEST WHEAT PRODUCTION ZONES (TABLE 2) DATA –

Sixty-eight percent of this week's samples were from Zone SE, 18% were from Zone NC, 6% were from Zone C and Zone SW and 3% were from Zone NE. (Please refer to page 4 – Pacific Northwest Wheat Production Zones Map.)

SWH – Average **wheat protein** content (12% mb) was highest for Zone NC at 9.6%, followed by Zone SE at 9.5%, Zone NE at 9.2%, Zone SW at 9.1%, and the lowest was for Zone C at 8.6%.

USDA Economic Statistics Districts





BY USDA ECONOMIC STATISTICS DISTRICTS

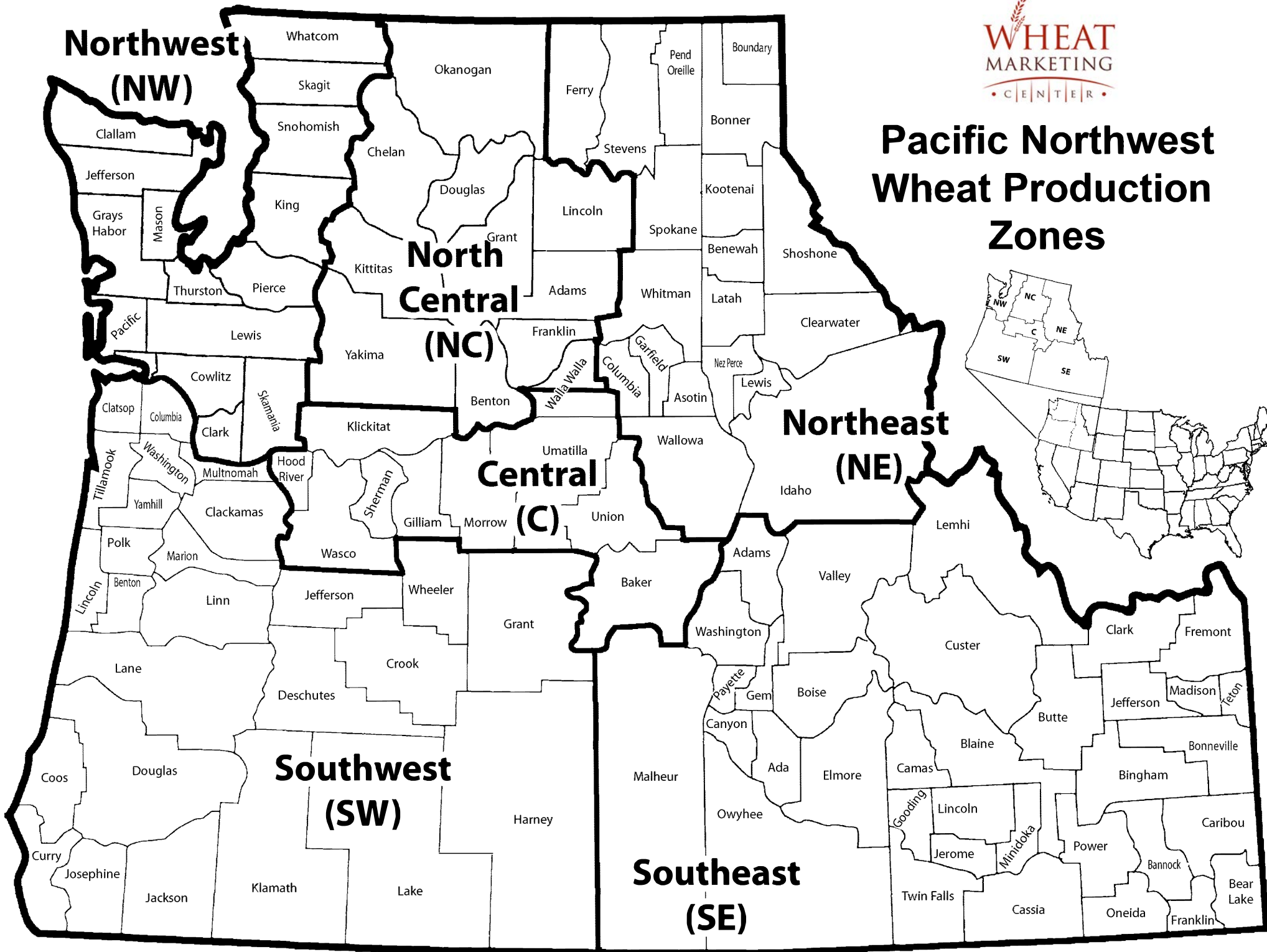
Table 1

2024 CROP WEEK 5: August 29, 2024

			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 (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	9	60.4	79.4	0.8	0.0	0.0	0.1	0.9	1.0	11.0	8.4	7.9	9.7	336	39.5	23.9	2.86	1.39	17.5
SWH	3	6	60.5	79.6	0.4	0.0	0.0	0.0	0.5	0.5	9.1	10.1	9.2	12.1	319	38.1	23.8	2.80	1.57	23.1
SWH	4	45	60.3	79.4	0.5	0.0	0.0	0.0	0.5	0.5	8.7	8.3	6.3	11.4	299	34.0	18.6	2.70	1.31	15.6
SWH	5	47	61.2	80.5	0.4	0.0	0.0	0.1	0.5	0.6	8.8	8.8	6.8	10.6	322	37.1	19.0	2.77	1.40	17.3
SWH	6/7	15	61.4	80.7	0.6	0.0	0.0	0.0	0.6	0.7	9.0	9.1	7.6	11.5	310	35.8	26.1	2.73	1.21	19.5
SWH	8	49	61.0	80.2	0.6	0.0	0.0	0.0	0.7	0.7	8.4	9.9	7.7	12.0	329	33.9	26.5	2.66	1.25	24.7
SWH	10	102	61.1	80.3	0.5	0.0	0.0	0.0	0.4	0.5	8.2	9.2	6.6	12.7	326	33.6	25.2	2.68	1.31	19.6
SWH	11	61	60.3	79.4	0.5	0.0	0.0	0.0	0.6	0.6	9.4	9.2	6.1	13.0	344	33.8	19.7	2.67	1.38	20.0
SWH	12	6	61.2	80.4	1.1	0.0	0.0	0.0	0.4	0.4	10.8	9.6	8.1	10.0	314	38.2	17.6	2.83	1.56	21.7
SWH	13	7	61.6	81.1	1.1	0.0	0.1	0.0	0.2	0.3	11.4	10.1	9.2	10.8	312	41.8	21.2	2.90	1.56	22.8
SWH	14	38	61.7	81.1	0.2	0.0	0.0	0.1	0.4	0.5	10.7	9.4	7.4	12.0	324	38.8	21.5	2.82	1.56	18.4
	Crop Year Average																			
SWH	2024	385	60.9	80.1	0.5	0.0	0.0	0.0	0.5	0.6	9.0	9.2			325	35.1	22.4	2.72	1.36	19.5
SWH	2023	385	60.2	79.2	0.4	0.0	0.0	0.1	0.7	0.8	9.1	11.0			334	32.5	20.7	2.62	1.39	25.8
SWH	5-year average	398	60.8	80.0	0.5	0.0	0.0	0.0	0.6	0.7	9.2	10.3			330	33.8	27.4	2.69	1.41	23.9
WHCB	1/2	1	60.3	79.3	0.5	0	0	0	0.5	0.5	8.6	6.6	6.6	6.6	332	34.8	19.9	2.71	1.35	
WHCB	4	1	60.4	79.5	0.8	0.0	0.0	0.4	0.5	0.9	7.9	6.4	6.4	6.4	286	33.6	18.0	2.66	1.21	
WHCB	5	1	60.6	79.7	0.9	0.0	0.0	0.1	0.5	0.6	8.7	7.6	7.6	7.6	302	32.0	23.1	2.59	1.35	
WHCB	8	11	60.7	79.9	0.8	0.0	0.0	0.2	0.8	0.9	7.9	9.5	8.2	10.8	315	32.4	27.8	2.61	1.28	
WHCB	10	3	61.3	80.6	0.7	0.0	0.0	0.2	1.1	1.3	8.2	8.2	7.1	10.5	386	30.2	30.2	2.70	1.27	
WHCB	11	2	60.8	80.0	0.5	0.0	0.0	0.1	0.7	0.8	9.6	9.7	9.4	9.9	356	31.4	10.1	2.69	1.33	
	Crop Year Average																			
WHCB	2024	19	60.8	80.0	0.7	0.0	0.0	0.2	0.8	0.9	8.2	8.9			329	32.1	25.1	2.64	1.29	
WHCB	2023	65	60.7	79.9	0.6	0.0	0.0	0.0	1.2	1.3	8.6	10.6			327	29.9	22.1	2.49	1.26	
WHCB	5-year average	79	60.6	79.8	0.6	0.0	0.0	0.0	1.2	1.2	8.4	10.4			333	30.1	28.8	2.52	1.31	
HRW	4	5	62.9	82.6	0.7	0.0	0.0	0.1	0.4	0.5	7.9	11.5	10.7	13.4	358	36.1	65.2	2.87	1.40	27.8
HRW	5	6	61.4	80.7	0.6	0.0	0.0	0.0	0.9	0.9	8.7	10.4	9.6	11.7	357	35.2	60.1	2.83	1.46	22.0
HRW	6/7	6	62.2	81.7	0.4	0.0	0.0	0.0	0.9	0.9	8.6	10.8	7.9	11.8	349	40.8	64.2	3.03	1.45	23.2
HRW	8	13	62.2	81.8	0.4	0.0	0.0	0.0	0.5	0.5	8.4	11.2	9.9	13.1	378	38.8	63.2	2.94	1.32	26.8
HRW	10	20	60.3	79.3	0.4	0.0	0.0	0.0	0.7	0.7	8.3	10.7	7.2	12.7	359	33.6	58.9	2.76	1.35	20.7
HRW	11	14	60.9	80.2	0.3	0.0	0.0	0.0	0.6	0.6	9.7	10.3	7.5	11.6	351	37.2	55.0	2.86	1.26	18.5
HRW	12	5	61.3	80.6	0.5	0.0	0.1	0.1	0.7	0.8	10.4	10.5	9.0	12.2	366	36.8	56.3	2.81	1.56	20.7
HRW	13	2	60.3	79.3	0.3	0.0	0.0	0.9	0.7	1.6	10.0	9.9	9.6	10.1	340	37.9	47.3	2.89	1.57	18.6
HRW	14	8	61.5	80.8	0.2	0.0	0.0	0.0	0.8	0.8	9.6	10.1	9.2	12.5	362	34.0	56.5	2.76	1.53	19.8
	Crop Year Average																			
HRW	2024	79	61.3	80.6	0.4	0.0	0.0	0.0	0.7	0.7	8.9	10.7			360	36.3	59.1	2.85	1.39	21.9
HRW	2023	73	61.7	81.1	0.3	0.0	0.1	0.0	0.6	0.7	9.3	11.8			355	36.3	61.0	2.83	1.42	25.9
HRW	5-year average	79	61.6	80.9	0.3	0.0	0.0	0.0	0.6	0.7	9.1	11.7			365	34.4	65.7	2.80	1.43	26.5
HRS	4	4	61.2	80.5	0.5	0.0	0.0	0.0	0.5	0.5	8.8	13.0	11.9	13.7	367	34.0	68.0	2.78	1.57	28.8
HRS	5	2	61.7	81.1	0.4	0.0	1.3	0.0	0.3	1.5	9.3	13.5	12.5	14.5	368	35.3	63.7	2.86	1.58	34.8
HRS	6/7	2	62.0	81.5	0.9	0.0	0.0	0.1	1.1	1.2	8.8	15.0	14.7	15.2	382	34.7	66.8	2.86	1.57	28.2
HRS	8	10	61.0	80.2	0.6	0.0	0.0	0.1	0.5	0.6	9.1	13.8	11.2	15.9	357	34.4	66.4	2.80	1.68	32.0
HRS	10	12	61.0	80.2	1.2	0.0	0.0	0.1	1.2	1.3	8.6	14.4	13.5	16.3	386	29.7	73.6	2.65	1.55	35.4
HRS	11	7	61.2	80.5	0.3	0.0	0.0	0.0	0.7	0.7	8.6	14.6	12.7	15.3	423	28.3	73.3	2.57	1.52	34.8
HRS	14	10	63.0	82.8	0.2	0.0	0.0	0.0	0.4	0.4	11.0	14.5	12.7	15.3	365	36.1	66.0	2.86	1.68	36.1
	Crop Year Average																			
HRS	2024	47	61.5	80.9	0.6	0.0	0.1	0.0	0.7	0.8	9.3	14.2			378	32.7	69.2	2.74	1.61	33.8
HRS	2023	36	61.7	81.2	0.5	0.0	0.0	0.0	0.6	0.7	9.5	14.6			370	32.0	65.9	2.75	1.58	35.2
HRS	5-year average	52	61.9	81.3	0.5	0.0	0.1	0.0	0.8	0.9	9.3	14.7			376	30.8	70.3	2.72	1.61	36.4

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Pacific Northwest Wheat Production Zones





BY PRODUCTION ZONES

Table 2

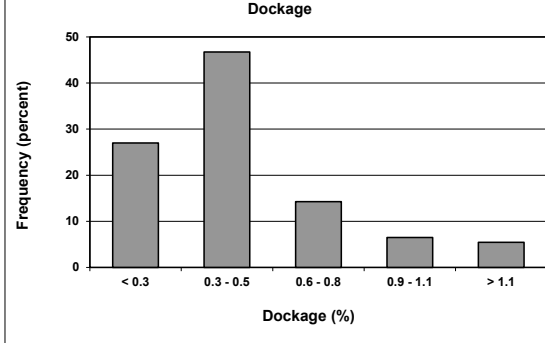
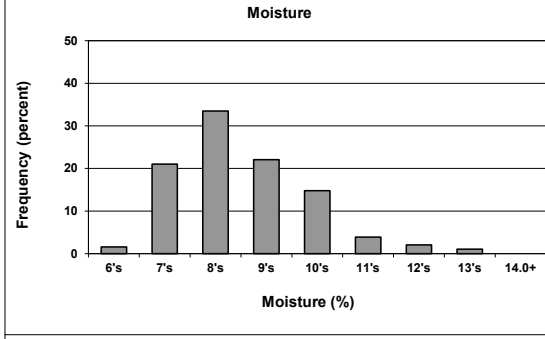
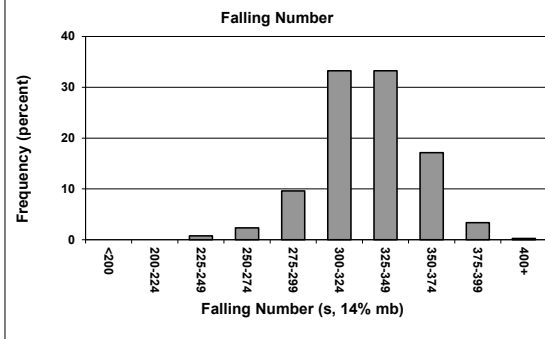
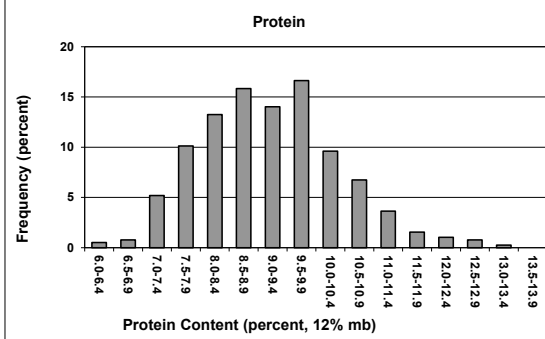
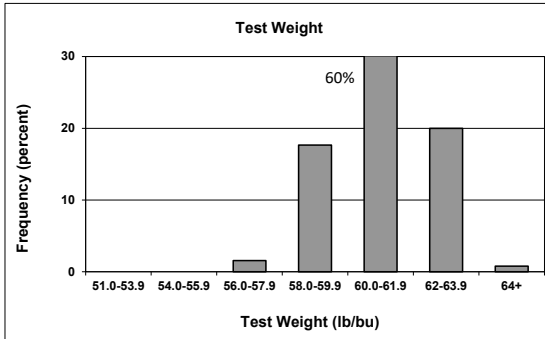
2024 CROP WEEK 5: August 29, 2024																				
			Grading Data								Quality Data									
Class	District	Number of Samples	Test Weight (lb/bu)	Test Weight (kg/ht)	Dockage (%)	Heat Damage (%)	Total Damage (%)	Foreign Material (%)	Shrunk & Broken (%)	Total Defects (%)	Moisture (%)	Protein (% 12% mb)			Falling Number (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	85	61.2	80.5	0.5	0.0	0.0	0.0	0.6	0.6	8.3	9.6	6.6	12.0	327	34.4	25.9	2.69	1.27	22.8
SWH	NE	139	60.7	79.8	0.5	0.0	0.0	0.0	0.5	0.6	8.8	9.2	6.1	13.0	334	33.4	23.0	2.67	1.34	19.6
SWH	C	95	60.8	79.9	0.4	0.0	0.0	0.1	0.5	0.6	8.8	8.6	6.3	11.4	310	35.6	18.8	2.74	1.36	16.5
SWH	SW	15	60.4	79.5	0.6	0.0	0.0	0.1	0.7	0.8	10.2	9.1	7.9	12.1	329	39.0	23.9	2.83	1.47	19.7
SWH	SE	51	61.6	81.0	0.4	0.0	0.0	0.1	0.3	0.4	10.9	9.5	7.4	12.0	320	39.1	21.0	2.83	1.56	19.4
	Crop Year Average																			
SWH	2024	385	60.9	80.1	0.5	0.0	0.0	0.0	0.5	0.6	9.0	9.2			325	35.1	22.4	2.72	1.36	19.5
SWH	2023	385	60.2	79.2	0.4	0.0	0.0	0.1	0.7	0.8	9.1	11.0			334	32.5	20.7	2.62	1.39	25.8
SWH	5-year average	398	60.8	80.0	0.5	0.0	0.0	0.0	0.6	0.7	9.2	10.3			330	33.8	27.4	2.69	1.41	23.9
WHCB	NC	13	60.8	80.0	0.8	0.0	0.0	0.2	0.7	0.9	7.9	9.1	7.1	10.8	323	32.2	28.6	2.63	1.27	
WHCB	NE	3	61.1	80.3	0.4	0.0	0.0	0.0	1.3	1.3	9.5	9.9	9.4	10.5	368	30.6	14.8	2.65	1.34	
WHCB	C	3	60.4	79.5	0.7	0.0	0.0	0.2	0.5	0.7	8.4	6.9	6.4	7.6	305	33.5	20.3	2.65	1.30	
	Crop Year Average																			
WHCB	2024	19	60.8	80.0	0.7	0.0	0.0	0.2	0.8	0.9	8.2	8.9			329	32.1	25.1	2.64	1.29	
WHCB	2023	65	60.7	79.9	0.6	0.0	0.0	0.0	1.2	1.3	8.6	10.6			327	29.9	22.1	2.49	1.26	
WHCB	5-year average	79	60.6	79.8	0.6	0.0	0.0	0.0	1.2	1.2	8.4	10.4			333	30.1	28.8	2.52	1.31	
HRW	NC	23	61.9	81.4	0.4	0.0	0.0	0.0	0.6	0.6	8.4	11.0	7.9	13.1	371	38.6	62.7	2.95	1.36	25.0
HRW	NE	30	60.5	79.6	0.4	0.0	0.0	0.0	0.7	0.7	9.0	10.5	7.2	12.7	353	35.1	57.1	2.80	1.31	19.5
HRW	C	11	62.0	81.6	0.6	0.0	0.0	0.0	0.7	0.7	8.3	10.9	9.6	13.4	357	35.6	62.4	2.85	1.44	24.7
HRW	SE	15	61.2	80.5	0.3	0.0	0.0	0.2	0.7	0.9	9.9	10.2	9.0	12.5	360	35.5	55.2	2.79	1.54	19.9
	Crop Year Average																			
HRW	2024	79	61.3	80.6	0.4	0.0	0.0	0.0	0.7	0.7	8.9	10.7			360	36.3	59.1	2.85	1.39	21.9
HRW	2023	73	61.7	81.1	0.3	0.0	0.1	0.0	0.6	0.7	9.3	11.8			355	36.3	61.0	2.83	1.42	25.9
HRW	5-year average	79	61.6	80.9	0.3	0.0	0.0	0.0	0.6	0.7	9.1	11.7			365	34.4	65.7	2.80	1.43	26.5
HRS	NC	16	61.4	80.7	0.6	0.0	0.0	0.0	0.7	0.7	8.8	14.0	11.2	15.9	363	34.7	67.4	2.82	1.65	32.4
HRS	NE	15	60.8	80.0	0.9	0.0	0.0	0.1	1.0	1.1	8.8	14.6	12.7	16.3	408	27.5	74.3	2.56	1.52	35.0
HRS	C	6	61.4	80.7	0.4	0.0	0.4	0.0	0.4	0.8	9.0	13.2	11.9	14.5	367	34.4	66.6	2.81	1.57	30.8
HRS	SE	10	63.0	82.8	0.2	0.0	0.0	0.0	0.4	0.4	11.0	14.5	12.7	15.3	365	36.1	66.0	2.86	1.68	36.1
	Crop Year Average																			
HRS	2024	47	61.5	80.9	0.6	0.0	0.1	0.0	0.7	0.8	9.3	14.2			378	32.7	69.2	2.74	1.61	33.8
HRS	2023	36	61.7	81.2	0.5	0.0	0.0	0.0	0.6	0.7	9.5	14.6			370	32.0	65.9	2.75	1.58	35.2
HRS	5-year average	52	61.9	81.3	0.5	0.0	0.1	0.0	0.8	0.9	9.3	14.7			376	30.8	70.3	2.72	1.61	36.4

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Distributions

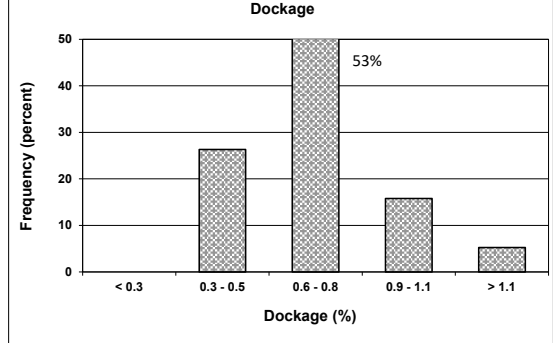
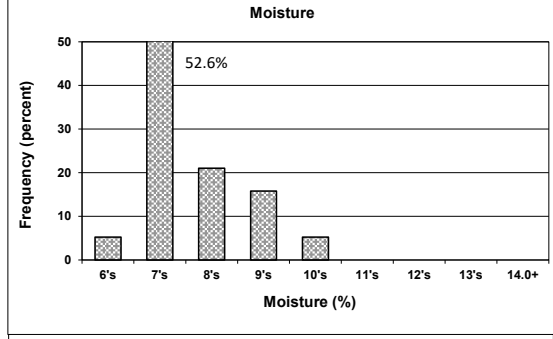
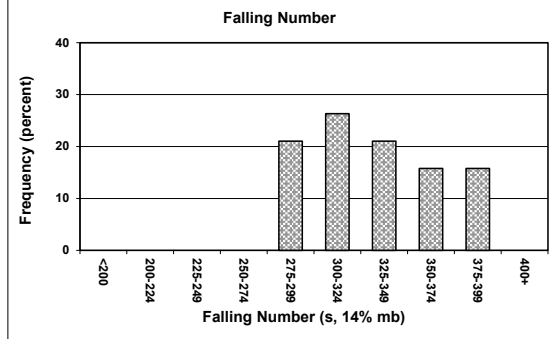
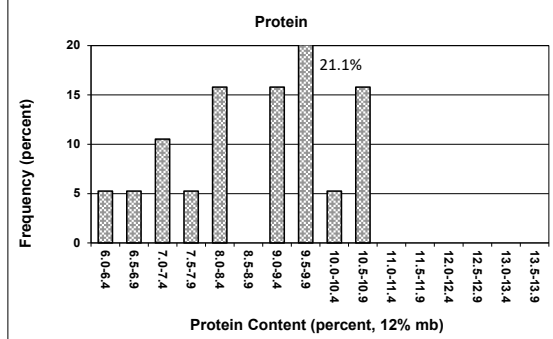
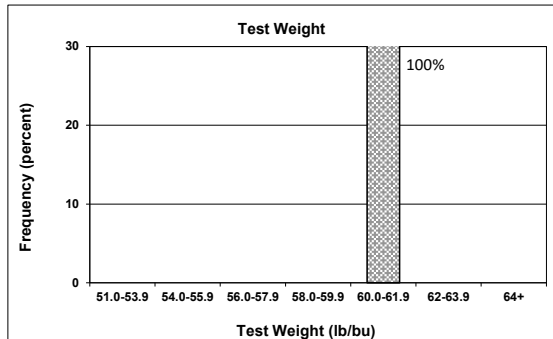
SOFT WHITE WHEAT

385 SAMPLES



WHITE CLUB WHEAT

19 SAMPLES



Prepared by: Wheat Marketing Center, Portland, Oregon