



2024 PACIFIC NORTHWEST CROP QUALITY REPORT

WEEK 4: August 22, 2024

We received and processed a total of 466 samples by the end of the fourth week reporting period for the 2024 Pacific Northwest wheat harvest.

SAMPLE DISTRIBUTION –

170 wheat samples were received in the fourth week – 123 soft white (SWH), 4 white club (WHCB), 23 hard red winter (HRW), 16 hard red spring (HRS) and 4 hard white (HDWH). 48 samples (28%) were from District 10, 42 (25%) were from District 11, 38 samples (22%) were from District 14, 20 samples (12%) were from District 5, and less than 10% each were from Districts 1, 2, 3, 4, 6, 7 and 8. (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 0.4%. Average **wheat moisture** content was 8.8%, lower than the 5-year average of 9.2%. Average **wheat protein** content (12% mb) was 9.1%, similar to last week's 9.2% 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 34.8 g, higher than the 5-year average of 33.8 g. Average **kernel size** was 2.71 mm, similar to the 5-year average of 2.69 mm.

WHCB – Average **test weight** was 60.9 lb/bu (80.1 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 8.8%, lower than the 5-year average of 10.4%. Average **falling number** value (14% mb) was 327 seconds, lower than the 5-year average of 333 seconds. Average **thousand kernel weight** (14% mb) was 32.2 g, higher than the 5-year average of 30.1 g. Average **kernel size** was 2.65 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.

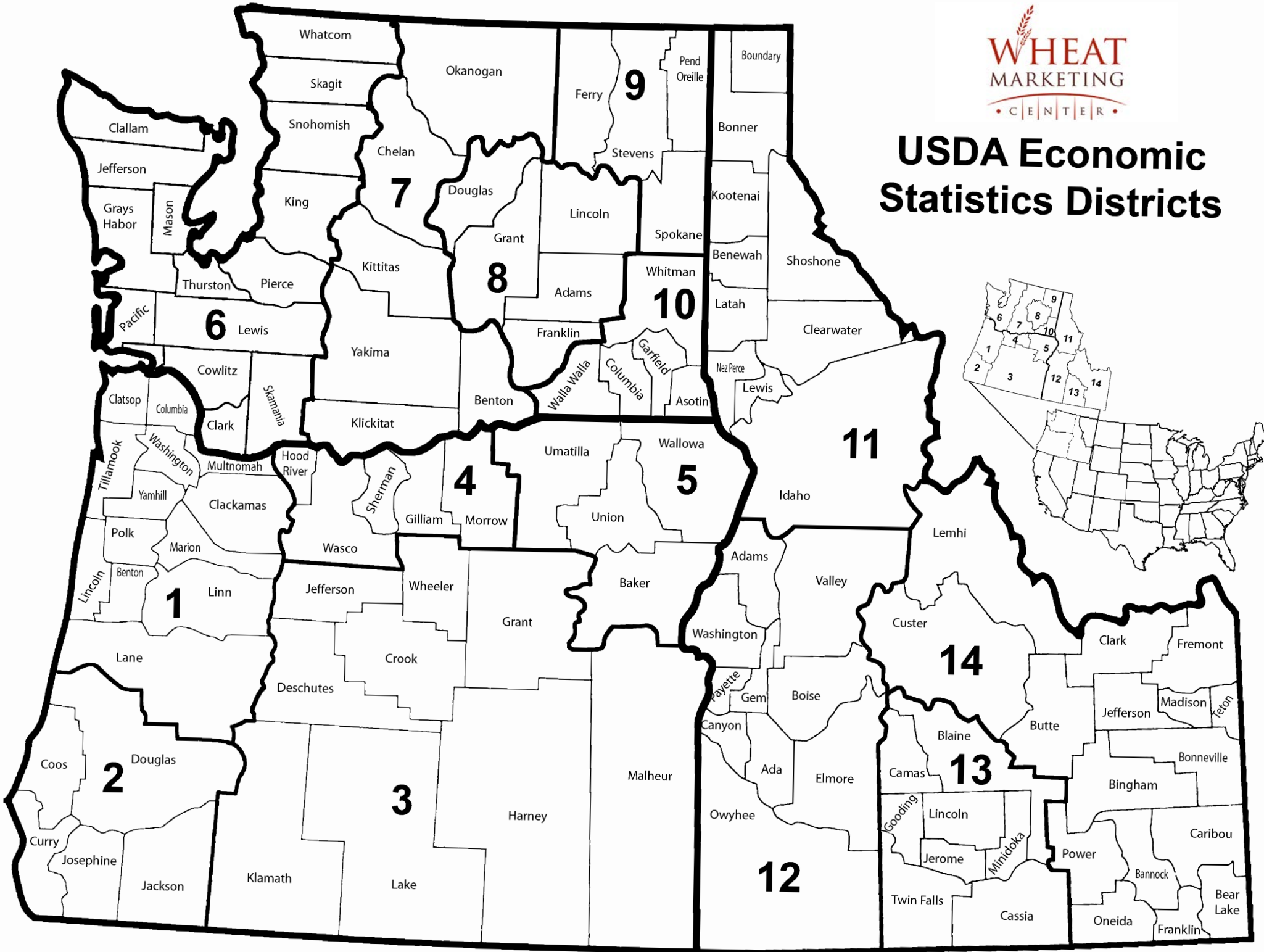
HRS – Average **test weight** was 61.2 lb/bu (80.5 kg/hl), lower than the 5-year average of 61.9 lb/bu (81.3 kg/hl). Average **wheat protein** content (12% mb) was 14.1%, lower than the 5-year average of 14.7%. **Thousand kernel weight** (14% mb) was higher than the 5-year average, and **kernel size** was the same as the 5-year average.

PACIFIC NORTHWEST WHEAT PRODUCTION ZONES (TABLE 2) DATA –

Forty-two percent of this week's samples were from Zone NE, 22% were from Zone SE, 18% were from Zone NC, 15% were from Zone C and 2% were from Zone SW. (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 NE and SE at 9.2%, Zone SW at 9.0%, and the lowest was for Zone C at 8.6%.

USDA Economic Statistics Districts





BY USDA ECONOMIC STATISTICS DISTRICTS

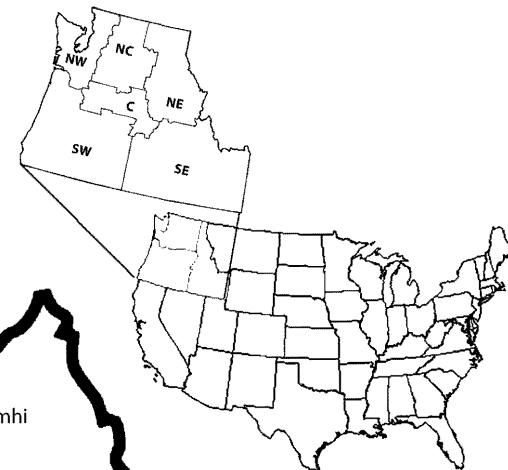
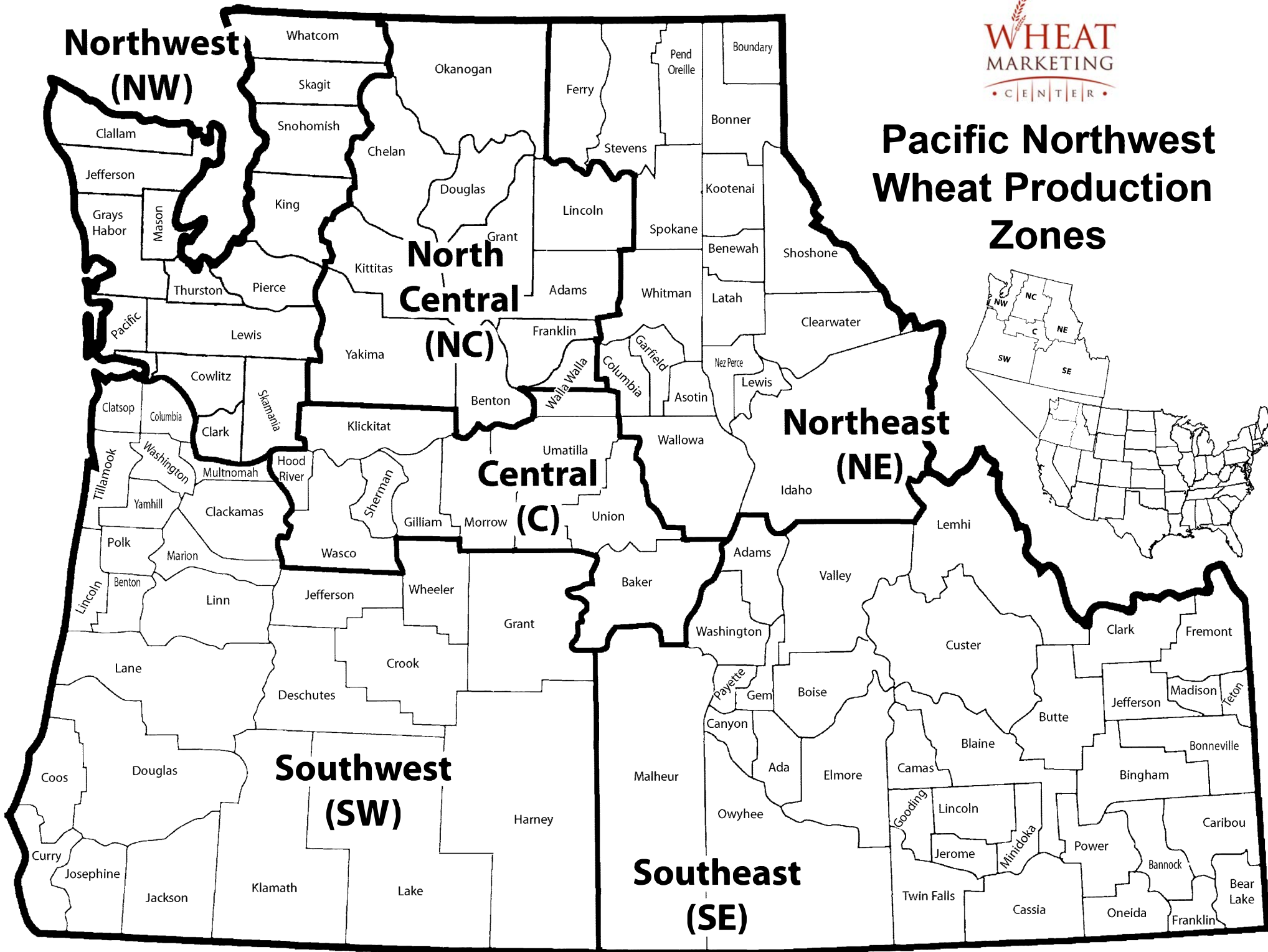
Table 1

2024 CROP WEEK 4: August 22, 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	8	60.3	79.4	0.8	0.0	0.0	0.1	0.9	1.1	11.0	8.4	7.9	9.7	331	39.3	23.3	2.85	1.39	17.7
SWH	3	2	59.1	77.8	0.6	0.0	0.1	0.0	0.6	0.7	8.7	11.3	10.4	12.1	330	32.0	26.9	2.64	1.52	27.2
SWH	4	44	60.4	79.5	0.5	0.0	0.0	0.0	0.5	0.5	8.7	8.3	6.3	11.4	299	34.2	18.5	2.71	1.31	15.6
SWH	5	43	61.2	80.5	0.4	0.0	0.0	0.1	0.5	0.6	8.8	8.8	6.8	10.6	321	37.1	19.2	2.78	1.41	17.6
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	40	61.1	80.4	0.5	0.0	0.0	0.0	0.7	0.7	8.4	10.0	8.6	12.0	329	34.1	27.1	2.67	1.24	25.3
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	14	28	62.1	81.6	0.2	0.0	0.0	0.0	0.3	0.3	10.3	9.2	8.0	11.3	323	38.6	23.0	2.82	1.55	17.2
	Crop Year Average																			
SWH	2024	343	60.9	80.2	0.4	0.0	0.0	0.0	0.5	0.6	8.8	9.1			325	34.8	22.6	2.71	1.35	19.4
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	8	60.9	80.0	0.8	0.0	0.0	0.2	0.7	0.9	8.0	9.5	8.2	10.8	306	32.6	29.5	2.62	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	16	60.9	80.0	0.7	0.0	0.0	0.2	0.8	0.9	8.3	8.8			327	32.2	25.5	2.65	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	12	62.1	81.6	0.4	0.0	0.0	0.0	0.4	0.5	8.5	11.2	9.9	13.1	374	39.5	62.7	2.97	1.32	26.6
HRW	10	18	60.3	79.3	0.4	0.0	0.0	0.0	0.7	0.8	8.3	10.6	7.2	12.7	361	33.6	58.3	2.76	1.37	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	14	5	61.5	80.8	0.1	0.0	0.0	0.0	0.8	0.8	9.3	9.8	9.2	11.1	358	34.9	53.5	2.76	1.55	18.4
	Crop Year Average																			
HRW	2024	66	61.3	80.6	0.4	0.0	0.0	0.0	0.6	0.7	8.7	10.7			359	36.5	59.2	2.86	1.37	22.0
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	9	61.0	80.3	0.6	0.0	0.0	0.1	0.5	0.6	9.1	13.7	11.2	15.9	364	34.8	65.3	2.81	1.68	31.2
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	1	62.2	81.8	0.2	0.0	0.0	0.0	0.4	0.4	10.5	14.4	14.4	14.4	344	35.2	67.3	2.87	1.60	34.7
	Crop Year Average																			
HRS	2024	37	61.2	80.5	0.7	0.0	0.1	0.0	0.8	0.9	8.9	14.1			383	31.9	69.9	2.72	1.59	33.1
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

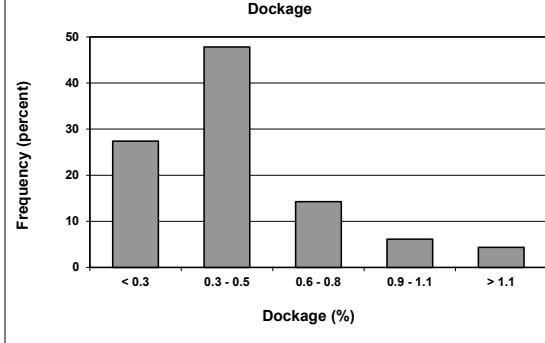
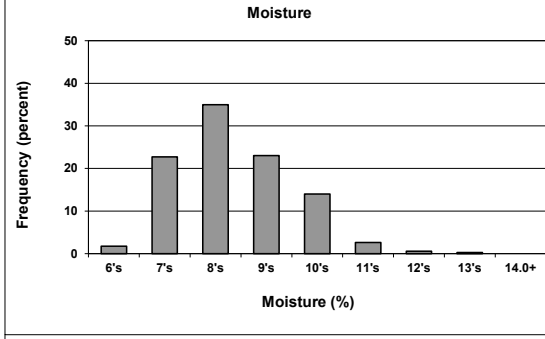
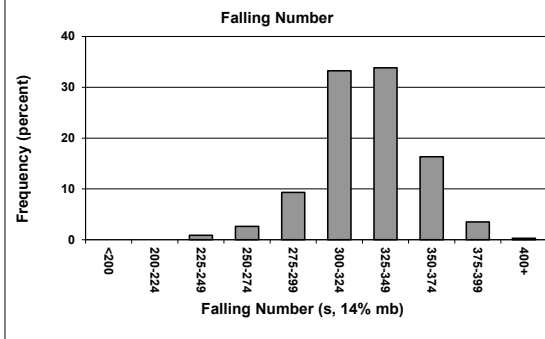
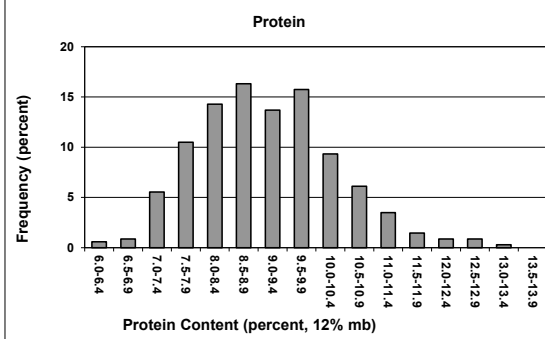
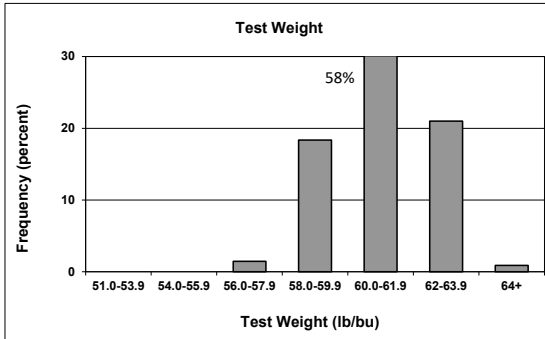
2024 CROP WEEK 4: August 22, 2024																				
		Grading Data									Quality Data									
Class	District	Number of Samples	Test Weight (lb/bu)	Test Weight (kg/ht)	Dockage (%)	Heat Damage (%)	Total Damage (%)	Foreign Material (%)	Shrunk & Broken (%)	Total Defects (%)	Moisture (%)	Protein (% 12% 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	76	61.3	80.6	0.5	0.0	0.0	0.0	0.6	0.6	8.2	9.6	6.6	12.0	326	34.6	26.1	2.70	1.27	22.9
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	90	60.8	80.0	0.4	0.0	0.0	0.1	0.5	0.6	8.8	8.6	6.3	11.4	309	35.7	18.8	2.74	1.35	16.6
SWH	SW	10	60.1	79.1	0.8	0.0	0.0	0.1	0.8	1.0	10.6	9.0	7.9	12.1	331	37.9	24.0	2.81	1.42	19.6
SWH	SE	28	62.1	81.6	0.2	0.0	0.0	0.0	0.3	0.3	10.3	9.2	8.0	11.3	323	38.6	23.0	2.82	1.55	17.2
	Crop Year Average																			
SWH	2024	343	60.9	80.2	0.4	0.0	0.0	0.0	0.5	0.6	8.8	9.1			325	34.8	22.6	2.71	1.35	19.4
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	10	60.9	80.1	0.8	0.0	0.0	0.2	0.7	0.9	7.9	9.0	7.1	10.8	319	32.2	30.3	2.65	1.27	1.9
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	8.0
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	0.0
	Crop Year Average																			
WHCB	2024	16	60.9	80.0	0.7	0.0	0.0	0.2	0.8	0.9	8.3	8.8			327	32.2	25.5	2.65	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	22	61.9	81.4	0.4	0.0	0.0	0.0	0.6	0.6	8.4	11.0	7.9	13.1	368	39.0	62.3	2.96	1.36	24.9
HRW	NE	28	60.6	79.6	0.4	0.0	0.0	0.0	0.7	0.7	9.0	10.4	7.2	12.7	353	35.2	56.6	2.80	1.32	19.4
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	5	61.5	80.8	0.1	0.0	0.0	0.0	0.8	0.8	9.3	9.8	9.2	11.1	358	34.9	53.5	2.76	1.55	18.4
	Crop Year Average																			
HRW	2024	66	61.3	80.6	0.4	0.0	0.0	0.0	0.6	0.7	8.7	10.7			359	36.5	59.2	2.86	1.37	22.0
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	15	61.4	80.8	0.6	0.0	0.0	0.0	0.7	0.8	8.8	14.0	11.2	15.9	368	35.0	66.9	2.82	1.65	32.0
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	1	62.2	81.8	0.2	0.0	0.0	0.0	0.4	0.4	10.5	14.4	14.4	14.4	344	35.2	67.3	2.87	1.60	34.7
	Crop Year Average																			
HRS	2024	37	61.2	80.5	0.7	0.0	0.1	0.0	0.8	0.9	8.9	14.1			383	31.9	69.9	2.72	1.59	33.1
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

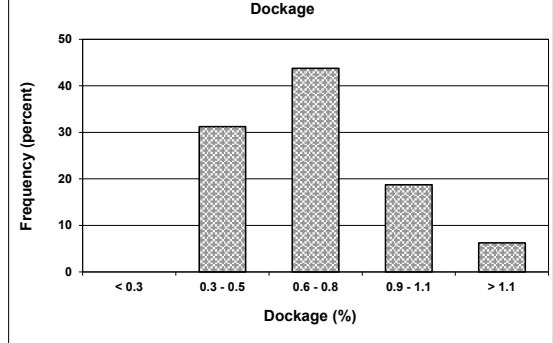
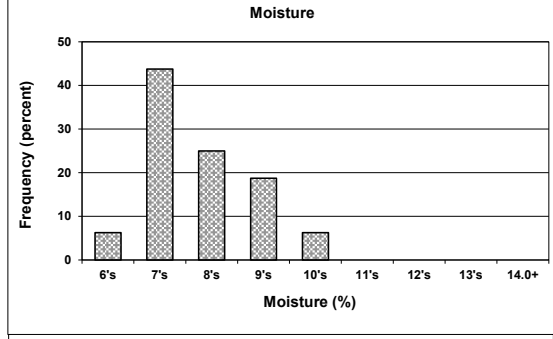
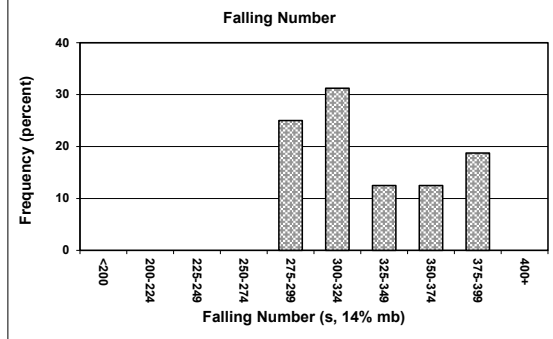
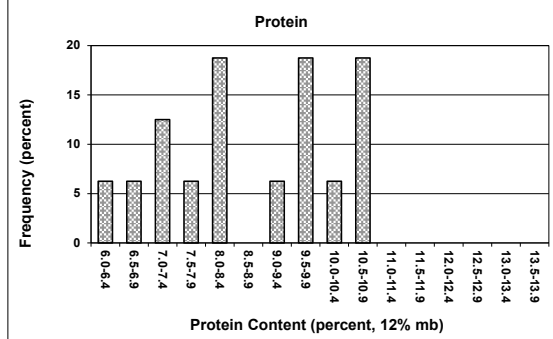
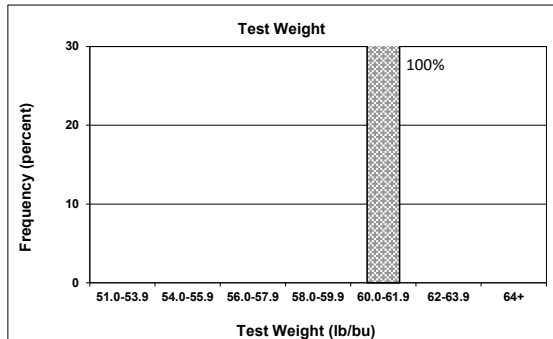
SOFT WHITE WHEAT

343 SAMPLES



WHITE CLUB WHEAT

16 SAMPLES



Prepared by: Wheat Marketing Center, Portland, Oregon