



2024 PACIFIC NORTHWEST CROP QUALITY REPORT

WEEK 7 FINAL: September 12, 2024

This is the final weekly report for the 2024 Pacific northwest wheat harvest survey. Our thanks go to the Federal Grain Inspection Service Portland Field Office for prompt grading and protein analysis, the PNW wheat growers, PNW states, National Quality Inspection and other 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.

612 wheat samples were received and tested this year – 429 soft white (SWH), 27 white club (WHCB), 84 hard red winter (HRW), 56 hard red spring (HRS), and 16 hard white (HDWH). The results were as follows:

USDA ECONOMIC STATISTICS DISTRICTS (TABLE 1) DATA –

SWH – Average **test weight** was 60.9 lb/bu (80.1 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 9.3%, lower than last year's 11.0% and the 5-year average of 10.3%. Average **falling number** value (14% mb) was 327 seconds, slightly lower than the 5-year average of 330 seconds. Average **thousand kernel weight** (14% mb) was 35.0 g, higher than the 5-year average of 33.8 g. Average **kernel size** was 2.71 mm, slightly larger than the 5-year average of 2.69 mm.

WHCB – Average **test weight** was 60.5 lb/bu (79.5 kg/hl), similar to the 5-year average of 60.6 lb/bu (79.8 kg/hl). Average **wheat protein** content (12% mb) was 9.5%, lower than last year's 10.6% and the 5-year average of 10.4%. Average **falling number** value (14% mb) was 332 seconds, similar to the 5-year average of 333 seconds. Average **thousand kernel weight** (14% mb) was 31.2 g, higher than the 5-year average of 30.1 g. Average **kernel size** was 2.60 mm, larger than the 5-year average of 2.52 mm.

HRW – Average **test weight** was 61.3 lb/bu (80.7 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 10.6%, lower than last year's 11.8% and the 5-year average of 11.7%. **Thousand kernel weight** (14% mb) and **kernel size** were both higher than the 5-year averages.

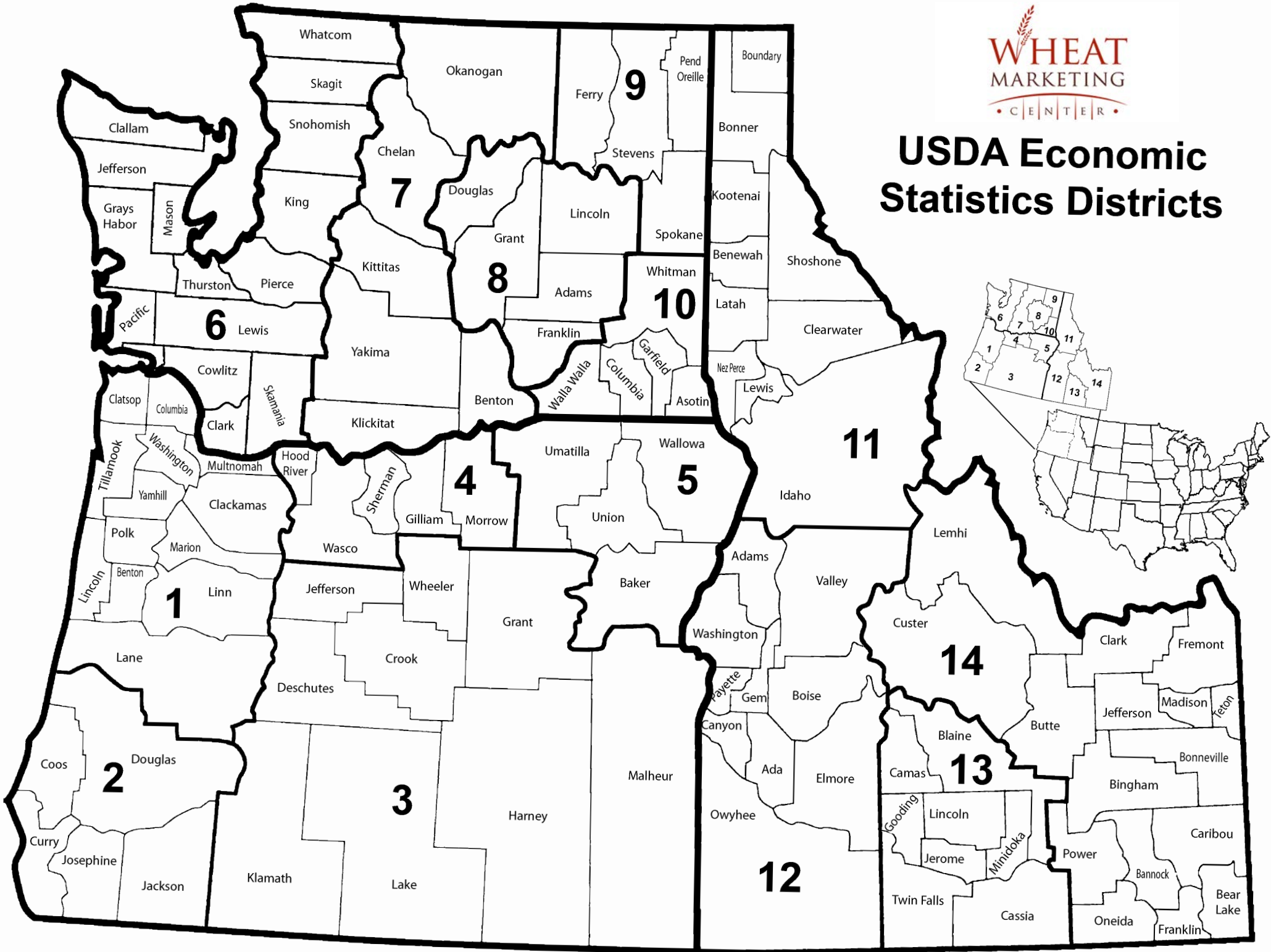
HRS – Average **test weight** was 61.3 lb/bu (80.6 kg/hl), lower than the 5-year average of 61.9 lb/bu (81.3 kg/hl). Average **wheat protein** content (12% mb) was 14.3%, slightly lower than last year's 14.6% and the 5-year average of 14.7%. **Thousand kernel weight** (14% mb) and **kernel size** were both higher than the 5-year averages.

PACIFIC NORTHWEST WHEAT PRODUCTION ZONES (TABLE 2) DATA –

SWH – Average **wheat protein** content (12% mb) was highest for Zone NC at 9.8%, 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%.

We will now make SWH and WHCB composites to perform Buhler milling, flour quality, and finished product tests for the US Wheat Associates 2024 Crop Quality Report as well as the 2024 U.S. Pacific Northwest Soft White Wheat Quality Report.

USDA Economic Statistics Districts





BY USDA ECONOMIC STATISTICS DISTRICTS

Table 1

2024 CROP WEEK 7: September 12, 2024

Class	District	Number of Samples	Grading Data								Quality Data										
			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	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	47	60.3	79.3	0.5	0.0	0.0	0.0	0.5	0.5	8.8	8.4	6.3	11.4	300	34.0	18.5	2.70	1.31	15.7	
SWH	5	49	61.2	80.5	0.4	0.0	0.0	0.1	0.5	0.6	8.9	8.7	6.8	10.6	322	37.1	18.9	2.78	1.40	17.1	
SWH	6/7	23	61.1	80.4	0.6	0.0	0.0	0.0	0.6	0.7	8.9	9.2	7.1	11.5	320	36.1	27.8	2.75	1.28	19.3	
SWH	8	79	60.7	79.8	0.6	0.0	0.0	0.1	0.7	0.8	8.6	10.2	7.2	13.3	336	33.5	25.4	2.65	1.29	25.0	
SWH	10	104	61.1	80.3	0.5	0.0	0.0	0.0	0.5	0.5	8.2	9.2	6.6	12.7	327	33.6	25.1	2.68	1.31	19.7	
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	429	60.9	80.1	0.5	0.0	0.0	0.1	0.5	0.6	9.0	9.3			327	35.0	22.6	2.71	1.36	19.9	
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	

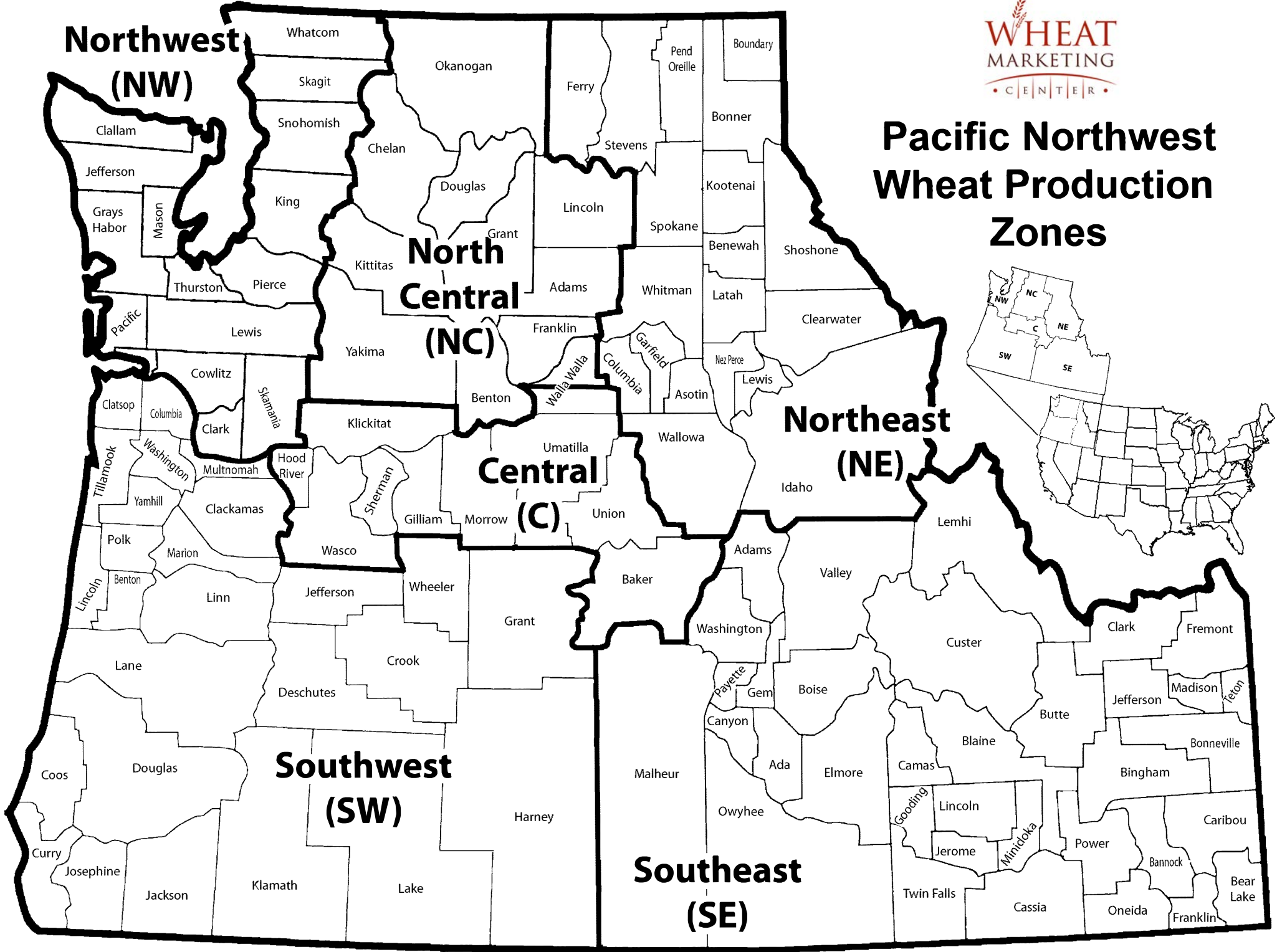
WHCB	1/2	1	60.3	79.3	0.5	0	0	0	0.5	0.5	8.6	6.6	6.6	6.6	332	34.8	19.9	2.71	1.35		
WHCB	4	1	60.4	79.5	0.8	0.0	0.0	0.4	0.5	0.9	7.9	6.4	6.4	6.4	286	33.6	18.0	2.66	1.21		
WHCB	5	1	60.6	79.7	0.9	0.0	0.0	0.1	0.5	0.6	8.7	7.6	7.6	7.6	302	32.0	23.1	2.59	1.35		
WHCB	8	15	60.5	79.6	1.1	0.0	0.0	0.1	0.9	1.0	8.1	9.6	8.2	10.8	319	32.2	29.3	2.61	1.29		
WHCB	10	7	60.3	79.4	1.4	0.0	0.0	0.1	1.4	1.5	8.4	10.3	7.1	13.1	363	28.0	27.5	2.53	1.34		
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	27	60.5	79.5	1.1	0.0	0.0	0.1	1.0	1.1	8.4	9.5			332	31.2	26.4	2.60	1.31		
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	8	62.4	82.0	0.4	0.0	0.0	0.0	0.7	0.7	8.7	10.5	7.9	11.8	350	40.1	63.8	2.98	1.40	21.8	
HRW	8	16	62.0	81.5	0.4	0.0	0.0	0.0	0.4	0.5	8.5	11.2	9.9	13.1	376	39.3	61.7	2.95	1.34	26.2	
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	84	61.3	80.7	0.4	0.0	0.0	0.0	0.6	0.7	8.9	10.6			360	36.5	59.0	2.85	1.38	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	4	61.4	80.7	0.7	0.0	0.0	0.0	0.7	0.7	8.4	14.8	14.4	15.2	395	33.1	64.5	2.80	1.46	31.8	
HRS	8	16	60.7	79.8	0.7	0.0	0.0	0.0	0.6	0.7	9.0	14.2	11.2	17.1	362	31.9	67.5	2.73	1.62	33.6	
HRS	10	13	60.9	80.1	1.1	0.0	0.0	0.1	1.2	1.3	8.6	14.3	13.2	16.3	388	29.3	73.9	2.64	1.54	35.0	
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	56	61.3	80.6	0.6	0.0	0.0	0.0	0.7	0.8	9.2	14.3			379	32.0	69.1	2.73	1.59	34.1	
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

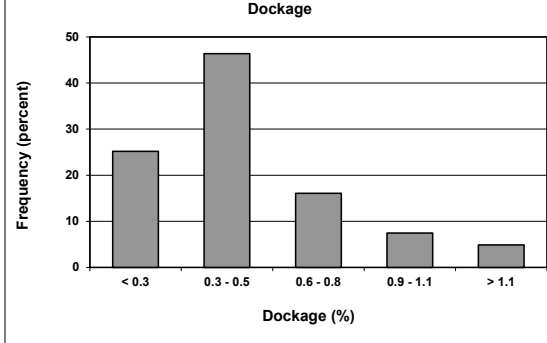
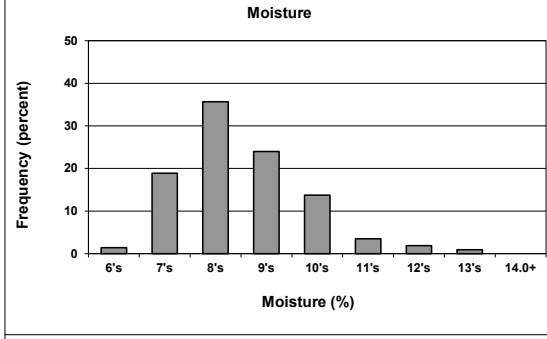
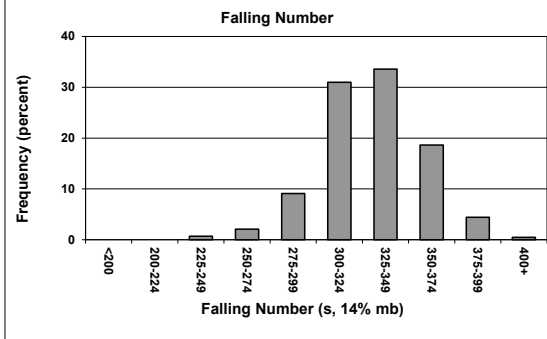
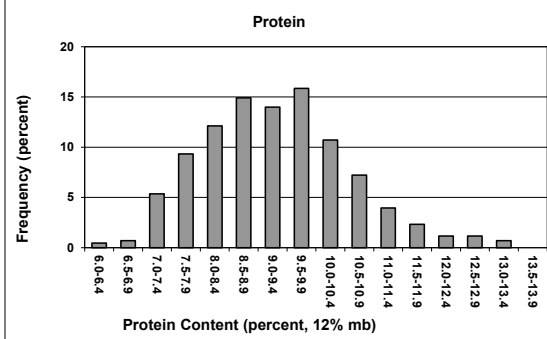
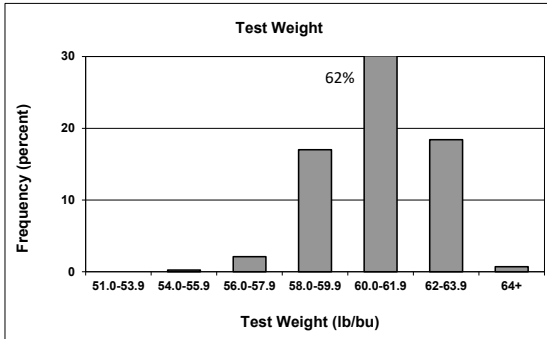
2024 CROP WEEK 7: September 12, 2024																				
		Grading Data									Quality Data									
Class	District	Number of Samples	Test Weight (lb/bu)	Test Weight (kg/ht)	Dockage (%)	Heat Damage (%)	Total Damage (%)	Foreign Material (%)	Shrunk & Broken (%)	Total Defects (%)	Moisture (%)	Protein (% 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	123	60.9	80.1	0.5	0.0	0.0	0.1	0.6	0.7	8.4	9.8	6.6	13.3	334	34.2	25.7	2.68	1.30	23.2
SWH	NE	141	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	19.7
SWH	C	99	60.8	79.9	0.5	0.0	0.0	0.0	0.5	0.6	8.9	8.6	6.3	11.4	310	35.6	18.7	2.74	1.36	16.4
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	429	60.9	80.1	0.5	0.0	0.0	0.1	0.5	0.6	9.0	9.3			327	35.0	22.6	2.71	1.36	19.9
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	17	60.6	79.7	1.1	0.0	0.0	0.1	0.8	1.0	8.1	9.3	7.1	10.8	325	32.0	29.7	2.62	1.28	
WHCB	NE	7	60.3	79.3	1.3	0.0	0.0	0.0	1.5	1.5	9.0	11.0	9.4	13.1	356	28.2	20.9	2.51	1.37	
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	27	60.5	79.5	1.1	0.0	0.0	0.1	1.0	1.1	8.4	9.5			332	31.2	26.4	2.60	1.31	
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	28	61.9	81.4	0.4	0.0	0.0	0.0	0.5	0.6	8.5	10.9	7.9	13.1	369	38.9	61.9	2.95	1.36	24.4
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	84	61.3	80.7	0.4	0.0	0.0	0.0	0.6	0.7	8.9	10.6			360	36.5	59.0	2.85	1.38	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	24	61.0	80.3	0.7	0.0	0.0	0.0	0.7	0.7	8.7	14.3	11.2	17.1	368	32.7	67.5	2.76	1.60	33.7
HRS	NE	16	60.7	79.9	0.9	0.0	0.0	0.1	1.0	1.1	8.8	14.5	12.7	16.3	408	27.3	74.5	2.56	1.52	34.7
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	56	61.3	80.6	0.6	0.0	0.0	0.0	0.7	0.8	9.2	14.3			379	32.0	69.1	2.73	1.59	34.1
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

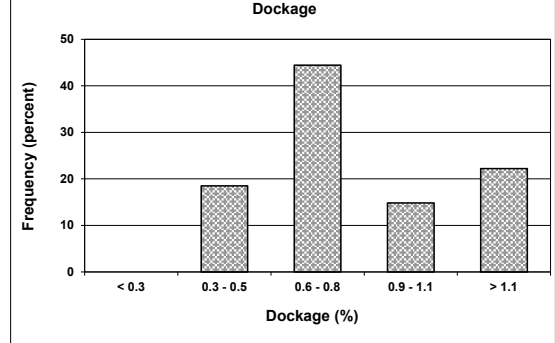
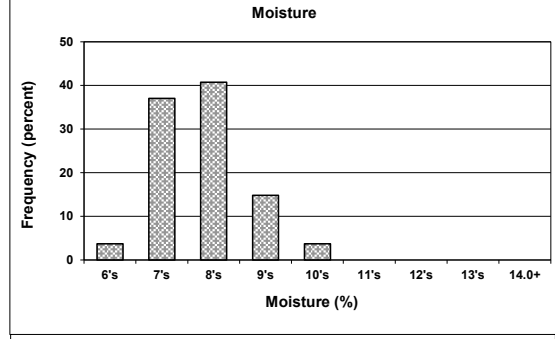
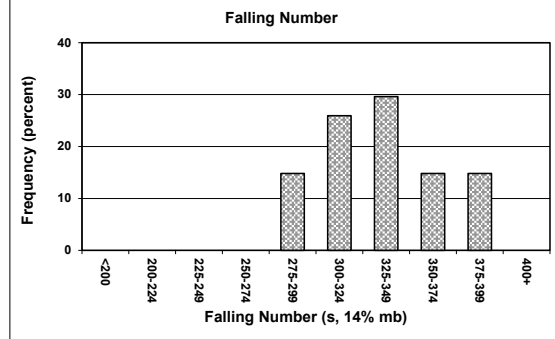
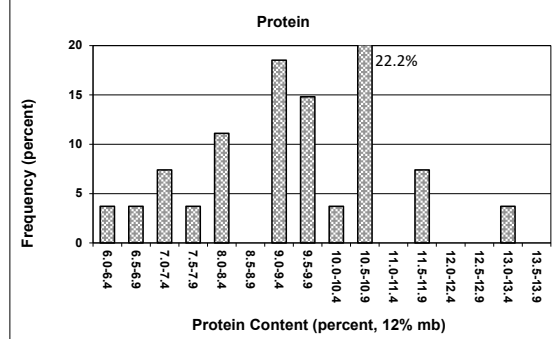
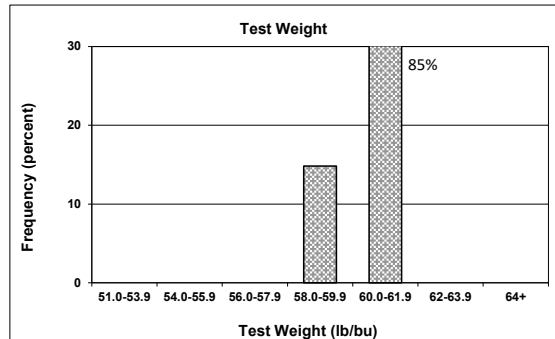
SOFT WHITE WHEAT

429 SAMPLES



WHITE CLUB WHEAT

27 SAMPLES



Prepared by: Wheat Marketing Center, Portland, Oregon