



## 2023 PACIFIC NORTHWEST CROP QUALITY REPORT

WEEK 6: August 31, 2023

We received and processed a total of 461 samples by the end of the sixth week reporting period for the 2023 Pacific Northwest wheat harvest.

### SAMPLE DISTRIBUTION –

66 wheat samples were received in the sixth week – 42 soft white (SWH), 8 white club (WHCB), 11 hard red winter (HRW), 4 hard red spring (HRS) and 1 hard white (HDWH). 13 samples (20%) each were from District 8 and District 11, 11 samples (18%) were from District 14, 10 samples (15%) were from District 13, and less than 10% each were from District 5, District 12, District 10, Districts 6/7 and District 4. (Please refer to page 2 - USDA Economic Statistics Districts Map.)

### USDA ECONOMIC STATISTICS DISTRICTS (TABLE 1) DATA –

**SWH** – Average **test weight** was 60.3 lb/bu (79.3 kg/hl), similar to the last week and lower than the 5-year average of 61.1 lb/bu (80.3 kg/hl). Average **dockage** was 0.4%. Average **wheat moisture** content was 9.0%, similar to the 5-year average of 9.1%. Average **wheat protein** content (12% mb) was 11.0%, a minor decline of 0.1% compared to last week and higher than the 5-year average of 10.0%. Average **falling number** value (14% mb) was 337 seconds, higher than the 5-year average of 326 seconds. Average **thousand kernel weight** (14% mb) was 32.2 g, an increase of 0.5g compared to last week but still lower than the 5-year average of 34.4 g. Average **kernel size** was 2.60 mm, smaller than the 5-year average of 2.72 mm.

**WHCB** – Average **test weight** was 60.8 lb/bu (79.9 kg/hl), similar to the 5-year average of 60.7 lb/bu. Average **wheat protein** content (12% mb) was 10.6%, the same as last week and higher than the 5-year average of 10.0%. Average **falling number** value (14% mb) was 327 seconds, slightly lower than the 5-year average of 331 seconds. Average **thousand kernel weight** (14% mb) was 29.9 g, lower than the 5-year average of 30.7 g. Average **kernel size** was 2.49 mm, smaller than the 5-year average of 2.55 mm.

**HRW** – Average **test weight** was 62.0 lb/bu, slightly higher than the 5-year average of 61.8 lb/bu. Average **wheat protein** content (12% mb) was 11.4%, a decline of 0.3% compared to the last week and slightly lower than the 5-year average of 11.6%. **Thousand kernel weight** (14% mb) was 36.0 g, an increase of 1.1 g compared to last week and higher than the 5-year average of 34.5 g. **Kernel size** was 2.82 mm, the same as the 5-year average.

**HRS** – Average **test weight** was 62.2 lb/bu, slightly higher than the 5-year average of 62.0 lb/bu. Average **wheat protein** content (12% mb) was 14.6%, the same as the 5-year average. **Thousand kernel weight** (14% mb) and **kernel size** were higher than the 5-year averages.

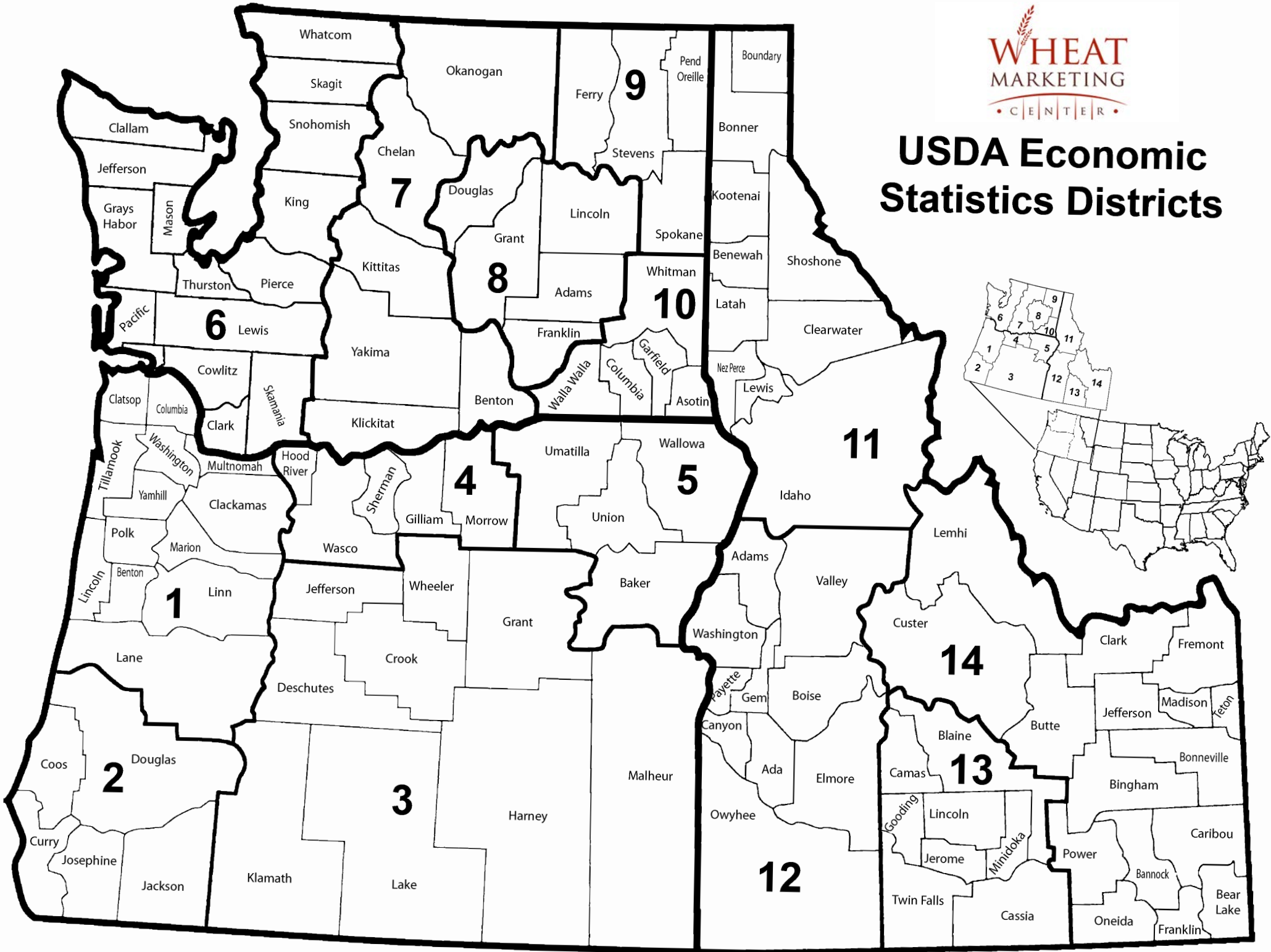
### PACIFIC NORTHWEST WHEAT PRODUCTION ZONES (TABLE 2) DATA –

Thirty nine percent of this week's samples were from Zone SE, 24% were from Zone NE, 23% were from Zone NC, and 14% were from Zone C. (Please refer to page 4 – Pacific Northwest Wheat Production Zones Map.)

**SWH** – Average **wheat protein content (12% mb)** was highest for Zone C at 12.0% followed by Zone NE at 11.3%, Zone NC at 10.8%, Zone SE at 9.7% and the lowest was for Zone SW at 8.6%.

**WHCB** – Average **wheat protein content (12% mb)** for Zone NC and Zone C were both at 10.7%, followed by Zone NE at 9.8%.

# USDA Economic Statistics Districts





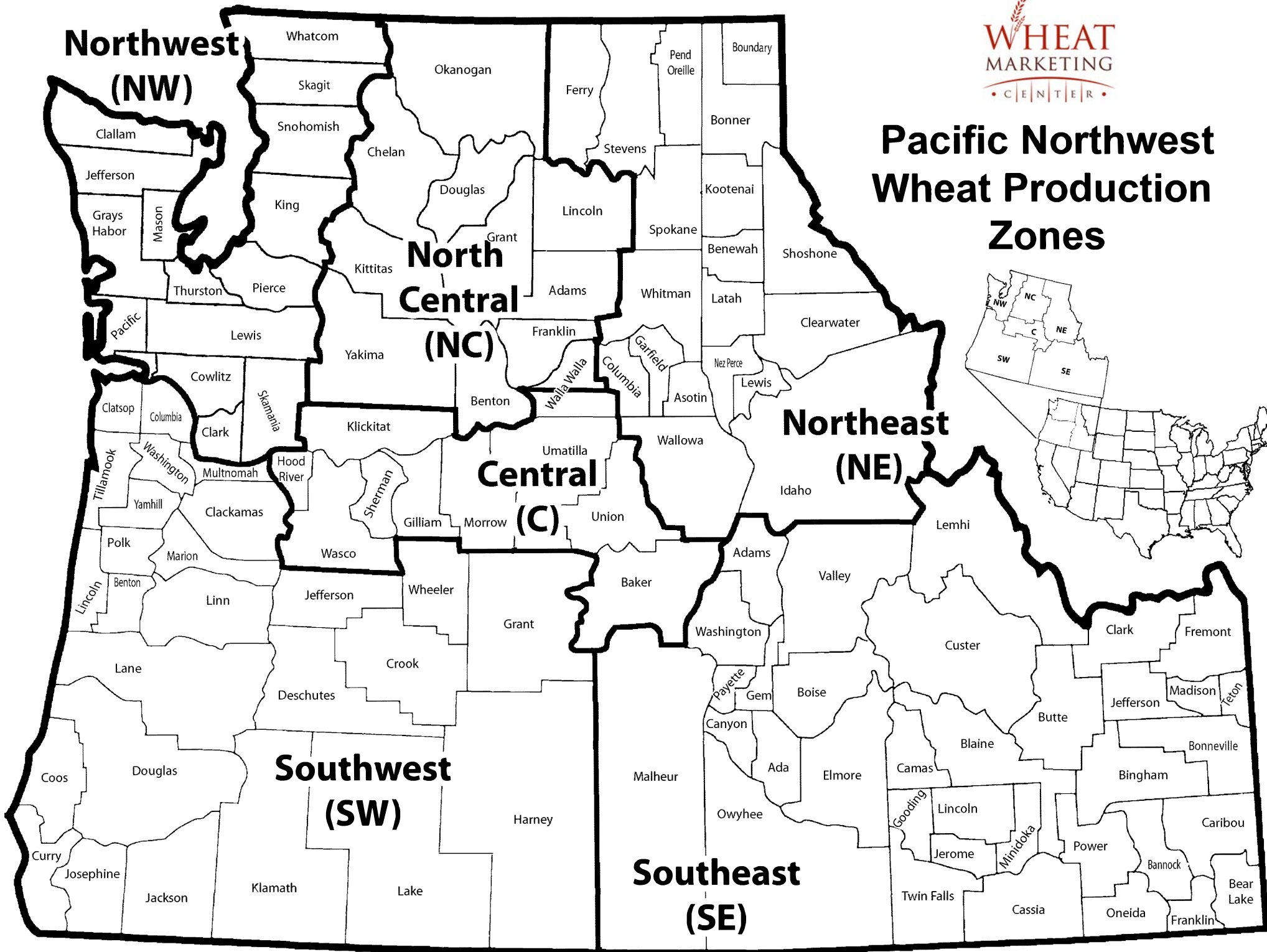
**BY USDA ECONOMIC STATISTICS DISTRICTS**

**Table 1**

2023 CROP WEEK 6: August 31, 2023																				
		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	112	10	61.3	80.7	0.3	0.0	0.0	0.0	0.9	0.9	10.4	8.6	8.0	10.0	333	38.2	24.4	2.79	1.36	16.4
SWH	3	10	61.6	81.0	0.5	0.0	0.5	0.0	0.4	0.9	8.7	10.1	9.1	10.9	283	41.3	26.1	2.90	1.62	21.5
SWH	4	54	59.3	78.1	0.3	0.0	0.0	0.1	0.9	1.0	8.7	12.1	10.6	15.5	344	28.0	22.2	2.49	1.38	30.6
SWH	5	47	59.8	78.7	0.3	0.0	0.0	0.0	1.0	1.0	8.8	11.8	10.2	14.7	341	30.0	20.9	2.54	1.43	29.4
SWH	6/7	12	60.9	80.1	0.7	0.0	0.0	0.0	0.4	0.4	9.6	11.2	9.6	12.7	334	36.1	24.5	2.77	1.51	27.0
SWH	8	102	60.3	79.3	0.5	0.0	0.0	0.1	0.8	0.8	8.7	10.8	7.3	14.8	335	31.9	21.2	2.58	1.25	25.9
SWH	10	22	59.9	78.8	0.3	0.0	0.0	0.0	0.8	0.8	8.5	12.3	9.5	15.1	357	30.3	19.6	2.55	1.37	30.2
SWH	11	34	61.7	81.1	0.3	0.0	0.0	0.0	0.7	0.7	8.9	10.6	8.8	14.0	342	32.7	23.7	2.63	1.40	23.1
SWH	12	6	61.5	80.8	0.5	0.0	0.1	0.0	0.3	0.4	9.2	9.7	8.7	10.7	290	43.5	20.6	2.91	1.55	21.6
SWH	13	6	61.1	80.4	0.3	0.0	0.1	0.1	0.7	0.9	9.5	9.6	7.7	11.8	345	41.1	26.2	2.89	1.59	9.4
SWH	14	24	60.0	78.9	0.4	0.0	0.0	0.5	0.5	1.0	10.7	9.6	7.8	11.9	328	34.6	21.4	2.65	1.48	17.7
	<b>Crop Year Average</b>																			
SWH	<b>2023</b>	327	60.3	79.3	0.4	0.0	0.0	0.1	0.8	0.9	9.0	11.0			337	32.2	21.9	2.60	1.38	25.8
SWH	<b>2022</b>	404	61.0	80.2	0.5	0.0	0.0	0.1	0.5	0.6	8.9	9.5			340	34.8	28.0	2.74	1.47	20.1
SWH	<b>5-year average</b>	416	61.1	80.3	0.5	0.0	0.0	0.0	0.6	0.7	9.1	10.0			326	34.4	28.7	2.72	1.40	22.8
WHCB	4	2	59.8	78.6	0.7	0.0	0.1	0.1	3.0	3.1	9.2	11.7	10.6	12.7	357	27.6	21.9	2.44	1.32	
WHCB	5	5	61.1	80.4	0.3	0.0	0.1	0.0	1.3	1.3	8.5	10.3	8.6	11.0	309	28.6	21.7	2.42	1.27	
WHCB	8	49	60.7	79.9	0.6	0.0	0.0	0.0	1.1	1.2	8.3	10.7	8.4	13.6	324	30.4	21.7	2.49	1.24	
WHCB	11	5	61.0	80.2	1.0	0.0	0.0	0.0	1.4	1.4	10.1	9.8	8.5	11.7	363	27.9	28.0	2.52	1.36	
	<b>Crop Year Average</b>																			
WHCB	<b>2023</b>	61	60.8	79.9	0.6	0.0	0.0	0.0	1.2	1.3	8.5	10.6			327	29.9	22.2	2.49	1.26	
WHCB	<b>2022</b>	53	60.6	79.8	0.8	0.0	0.0	0.0	1.1	1.1	7.8	10.1			356	30.2	31.1	2.55	1.36	
WHCB	<b>5-year average</b>	91	60.7	79.9	0.6	0.0	0.0	0.1	1.1	1.2	8.3	10.0			331	30.7	30.0	2.55	1.31	
HRW	4	7	62.0	81.6	0.3	0.0	0.0	0.1	0.9	1.0	8.4	12.8	11.7	14.8	350	31.9	63.0	2.69	1.47	31.1
HRW	5	6	60.3	79.3	0.5	0.0	0.6	0.0	1.2	1.8	9.4	12.4	11.7	13.6	358	32.9	70.3	2.73	1.47	26.4
HRW	8	17	62.4	82.0	0.3	0.0	0.0	0.0	0.4	0.4	8.5	11.8	10.6	14.0	369	37.8	59.6	2.88	1.32	26.4
HRW	11	9	62.1	81.7	0.2	0.0	0.0	0.0	0.4	0.4	8.1	11.4	10.6	12.1	348	35.2	66.1	2.85	1.24	23.9
HRW	12	6	62.7	82.4	0.2	0.0	0.0	0.0	0.5	0.5	8.8	10.3	9.5	10.8	345	40.7	62.3	3.01	1.48	19.8
HRW	13	3	61.6	81.0	0.5	0.0	0.0	0.1	0.5	0.6	9.5	10.1	9.1	11.6	329	42.3	59.3	3.02	1.56	18.9
HRW	14	5	61.9	81.4	0.3	0.0	0.0	0.0	1.4	1.5	9.7	9.2	8.2	11.4	360	31.2	57.3	2.49	1.63	16.8
	<b>Crop Year Average</b>																			
HRW	<b>2023</b>	53	62.0	81.5	0.3	0.0	0.1	0.0	0.7	0.8	8.7	11.4			356	36.0	62.4	2.82	1.40	24.5
HRW	<b>2022</b>	78	61.5	80.9	0.4	0.0	0.0	0.0	0.8	0.8	8.8	11.1			382	33.7	66.2	2.80	1.53	24.1
HRW	<b>5-year average</b>	87	61.8	81.2	0.3	0.0	0.0	0.0	0.6	0.7	8.9	11.6			367	34.5	66.5	2.82	1.42	26.3
HRS	4	4	61.4	80.7	0.9	0.0	0.0	0.1	0.9	1.0	9.0	14.8	14.2	15.2	398	32.6	70.8	2.82	1.62	35.7
HRS	5	4	63.7	83.7	0.1	0.0	0.0	0.1	0.5	0.5	9.1	14.1	13.4	14.9	335	36.0	60.7	2.88	1.56	36.0
HRS	8	7	62.0	81.5	0.9	0.0	0.0	0.0	0.6	0.7	9.0	14.6	11.0	16.9	370	31.9	67.1	2.72	1.64	37.2
HRS	11	4	62.2	81.8	0.4	0.0	0.0	0.0	0.5	0.5	8.5	15.0	14.1	15.8	405	28.4	76.5	2.60	1.37	36.4
	<b>Crop Year Average</b>																			
HRS	<b>2023</b>	19	62.2	81.8	0.6	0.0	0.0	0.1	0.6	0.7	8.9	14.6			376	32.1	68.5	2.75	1.56	36.4
HRS	<b>2022</b>	56	61.6	81.0	0.4	0.0	0.0	0.0	0.6	0.7	8.7	14.4			387	30.5	72.2	2.71	1.65	35.1
HRS	<b>5-year average</b>	64	62.0	81.6	0.4	0.0	0.1	0.0	0.8	0.9	9.1	14.6			379	30.8	71.6	2.72	1.61	36.4

\* Wet gluten has been discontinued for club wheat

# Pacific Northwest Wheat Production Zones





**BY PRODUCTION ZONES**

**Table 2**

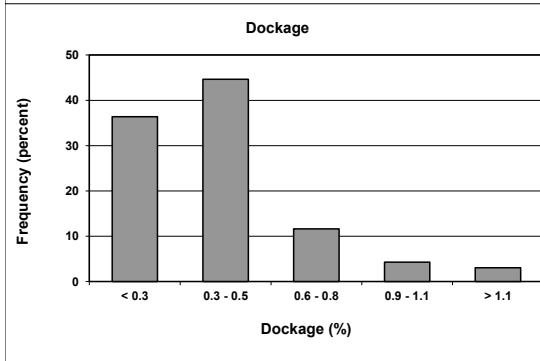
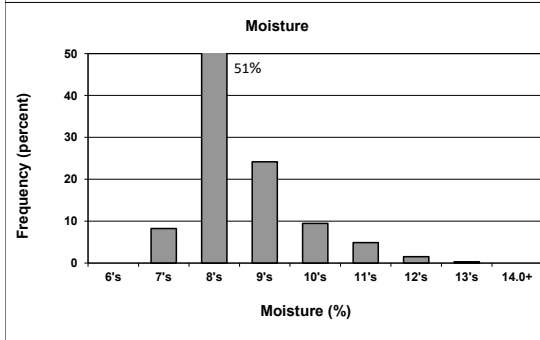
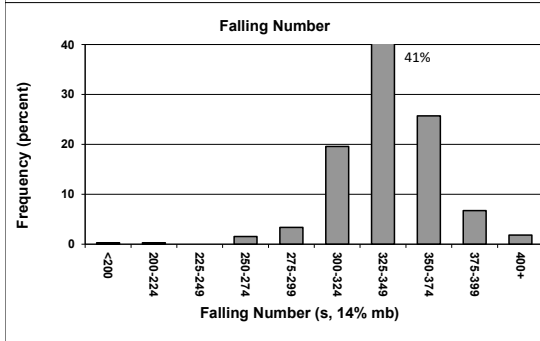
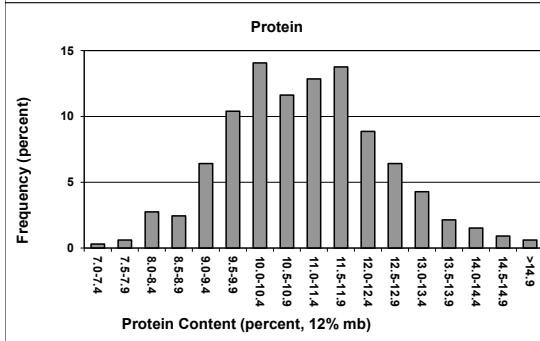
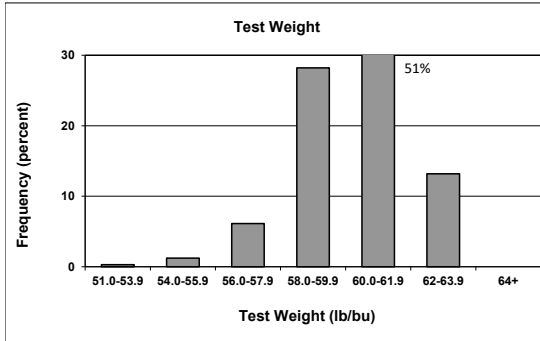
2023 CROP WEEK 6: August 31, 2023																				
Grading Data											Quality Data									
Class	District	Number of Samples	Test Weight (lb/bu)	Test Weight (kg/ht)	Dockage (%)	Heat Damage (%)	Total Damage (%)	Foreign Material (%)	Shrunk & Broken (%)	Total Defects (%)	Moisture (%)	Protein (% 12% 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	110	60.4	79.4	0.5	0.0	0.0	0.1	0.7	0.8	8.8	10.8	7.3	14.8	338	32.4	21.4	2.60	1.28	25.8
SWH	NE	56	61.0	80.2	0.3	0.0	0.0	0.0	0.7	0.7	8.8	11.3	8.8	15.1	347	31.8	22.1	2.60	1.39	25.9
SWH	C	105	59.6	78.4	0.3	0.0	0.0	0.1	0.9	1.0	8.8	12.0	10.2	15.5	342	29.0	21.7	2.52	1.40	30.1
SWH	SW	10	61.3	80.7	0.3	0.0	0.0	0.0	0.9	0.9	10.4	8.6	8.0	10.0	333	38.2	24.4	2.79	1.36	16.4
SWH	SE	46	60.7	79.8	0.4	0.0	0.1	0.3	0.5	0.8	9.9	9.7	7.7	11.9	313	38.1	23.0	2.77	1.53	18.0
	<b>Crop Year Average</b>																			
SWH	<b>2023</b>	327	60.3	79.3	0.4	0.0	0.0	0.1	0.8	0.9	9.0	11.0			337	32.2	21.9	2.60	1.38	25.8
SWH	<b>2022</b>	404	61.0	80.2	0.5	0.0	0.0	0.1	0.5	0.6	8.9	9.5			340	34.8	28.0	2.74	1.47	20.1
SWH	<b>5-year average</b>	416	61.1	80.3	0.5	0.0	0.0	0.0	0.6	0.7	9.1	10.0			326	34.4	28.7	2.72	1.40	22.8
WHCB	NC	49	60.7	79.9	0.6	0.0	0.0	0.0	1.1	1.2	8.3	10.7	8.4	13.6	324	30.4	21.7	2.49	1.24	
WHCB	NE	5	61.0	80.2	1.0	0.0	0.0	0.0	1.4	1.4	10.1	9.8	8.5	11.7	363	27.9	28.0	2.52	1.36	
WHCB	C	7	60.7	79.9	0.4	0.0	0.1	0.0	1.7	1.8	8.7	10.7	8.6	12.7	321	28.3	21.8	2.43	1.28	
	<b>Crop Year Average</b>																			
WHCB	<b>2023</b>	61	60.8	79.9	0.6	0.0	0.0	0.0	1.2	1.3	8.5	10.6			327	29.9	22.2	2.49	1.26	
WHCB	<b>2022</b>	53	60.6	79.8	0.8	0.0	0.0	0.0	1.1	1.1	7.8	10.1			356	30.2	31.1	2.55	1.36	
WHCB	<b>5-year average</b>	91	60.7	79.9	0.6	0.0	0.0	0.1	1.1	1.2	8.3	10.0			331	30.7	30.0	2.55	1.31	
HRW	NC	17	62.4	82.0	0.3	0.0	0.0	0.0	0.4	0.4	8.5	11.8	10.6	14.0	369	37.8	59.6	2.88	1.32	26.4
HRW	NE	9	62.1	81.7	0.2	0.0	0.0	0.0	0.4	0.4	8.1	11.4	10.6	12.1	348	35.2	66.1	2.85	1.24	23.9
HRW	C	13	61.2	80.5	0.4	0.0	0.3	0.1	1.1	1.4	8.9	12.6	11.7	14.8	354	32.3	66.4	2.71	1.47	28.9
HRW	SE	14	62.2	81.8	0.3	0.0	0.0	0.0	0.8	0.8	9.3	9.9	8.2	11.6	346	37.7	59.9	2.82	1.55	18.6
	<b>Crop Year Average</b>																			
HRW	<b>2023</b>	53	62.0	81.5	0.3	0.0	0.1	0.0	0.7	0.8	8.7	11.4			356	36.0	62.4	2.82	1.40	24.5
HRW	<b>2022</b>	78	61.5	80.9	0.4	0.0	0.0	0.0	0.8	0.8	8.8	11.1			382	33.7	66.2	2.80	1.53	24.1
HRW	<b>5-year average</b>	87	61.8	81.2	0.3	0.0	0.0	0.0	0.6	0.7	8.9	11.6			367	34.5	66.5	2.82	1.42	26.3
HRS	NC	7	62.0	81.5	0.9	0.0	0.0	0.0	0.6	0.7	9.0	14.6	11.0	16.9	370	31.9	67.1	2.72	1.64	37.2
HRS	NE	4	62.2	81.8	0.4	0.0	0.0	0.0	0.5	0.5	8.5	15.0	14.1	15.8	405	28.4	76.5	2.60	1.37	36.4
HRS	C	8	62.5	82.2	0.5	0.0	0.0	0.1	0.7	0.8	9.1	14.4	13.4	15.2	363	34.3	65.8	2.85	1.59	35.8
	<b>Crop Year Average</b>																			
HRS	<b>2023</b>	19	62.2	81.8	0.6	0.0	0.0	0.1	0.6	0.7	8.9	14.6			376	32.1	68.5	2.75	1.56	36.4
HRS	<b>2022</b>	56	61.6	81.0	0.4	0.0	0.0	0.0	0.6	0.7	8.7	14.4			387	30.5	72.2	2.71	1.65	35.1
HRS	<b>5-year average</b>	64	62.0	81.6	0.4	0.0	0.1	0.0	0.8	0.9	9.1	14.6			379	30.8	71.6	2.72	1.61	36.4

\* Wet gluten has been discontinued for club wheat

# Distributions

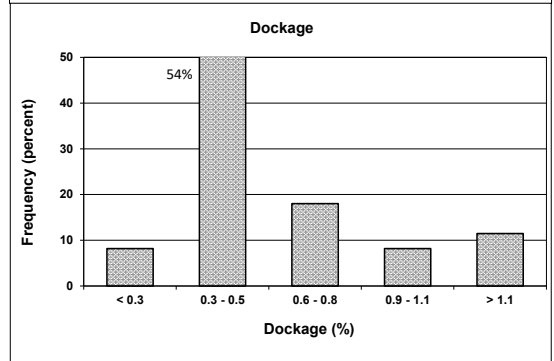
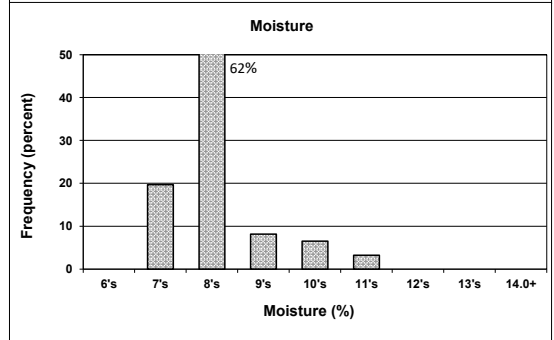
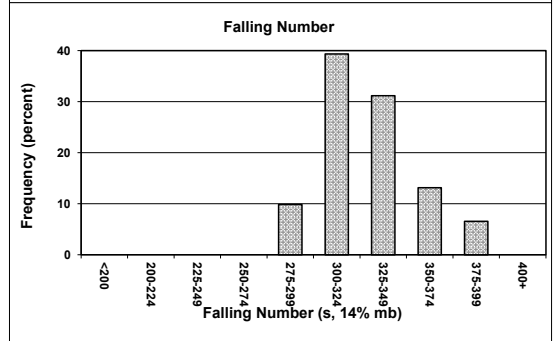
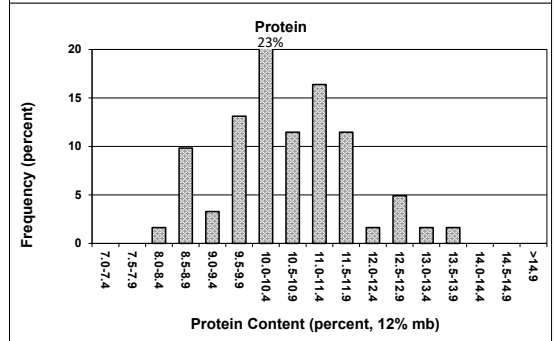
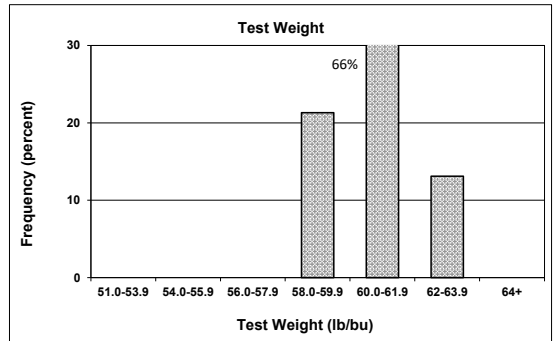
## SOFT WHITE WHEAT

327 SAMPLES



## WHITE CLUB WHEAT

61 SAMPLES



Prepared by: Wheat Marketing Center, Portland, Oregon