



2018 PACIFIC NORTHWEST CROP QUALITY REPORT

WEEK 7 **FINAL**: September 13, 2018

This is the final weekly report for the 2018 Pacific Northwest wheat harvest survey. We have received and tested 833 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 833 samples received this year, 473 were soft white (SWH), 128 were white club (WHCB), 112 were hard red winter (HRW), 95 were hard red spring (HRS), 24 were hard white (HDWH), and one was western white wheat (WWH).

Soft white wheat crop weighted averages had the following differences when compared to the 2017. Test weight was higher at 61.7 lb/bu (80.9 kg/hl). Wheat moisture content decreased to 8.6% from 8.9% last year. Wheat protein (12% mb) decreased to 9.3% from 9.6% last year. Falling number value (14% mb) was 315 seconds. Thousand kernel weight (14% mb) and kernel size increased slightly 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 2017. Test weight increased to 61.2 lb/bu (80.5 kg/hl) from 60.2 lb/bu (79.2 kg/hl) last year. Wheat moisture decreased to 8.1% from 8.3% last year. Wheat protein (12% mb) decreased to 9.0% from 9.4% last year. Falling number value (14% mb) was 316 seconds. Whole meal wet gluten (14% mb) was decreased to 15.8% from 17.1% last year.

Hard red winter wheat crop weighted averages had the following highlights when compared to 2017. Test weight increased to 62.9 lb/bu from 62.4 lb/bu last year. Wheat moisture decreased to 8.3% from 8.4% last year. Wheat protein (12% mb) decreased to 11.1% from 11.5% last year, falling number value (14% mb) decreased to 365 seconds from 387 seconds last year, whole meal wet gluten increased slightly to 25.1% from 24.8% last year, and thousand kernel weight (14% mb) and kernel size were higher than last year.

Hard red spring wheat crop weighted averages follow similar trend with HRW with increased test weight, decreased moisture, and decreased wheat protein, .

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' 2018 Crop Quality Report as well as 2018 U.S. Pacific Northwest Soft White Wheat Quality Report.



BY USDA ECONOMIC STATISTICS DISTRICTS

Table 1

2018 CROP WEEK 7 Final, September 13, 2018

| | | 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 | 11 | 62.3 | 82.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 10.7 | 8.6 | 7.4 | 10.4 | 325 | 40.6 | 21.8 | 2.87 | 1.42 | 18.8 | |
| SWH | 3 | 3 | 61.1 | 80.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 | 8.4 | 9.5 | 9.3 | 9.7 | 311 | 43.6 | 23.9 | 2.95 | 1.43 | 21.7 | |
| SWH | 4 | 52 | 60.4 | 79.5 | 0.7 | 0.0 | 0.0 | 0.1 | 0.6 | 0.6 | 8.6 | 9.4 | 7.0 | 14.4 | 327 | 33.2 | 25.3 | 2.73 | 1.38 | 22.1 | |
| SWH | 5 | 35 | 61.6 | 78.6 | 0.3 | 0.0 | 0.1 | 0.2 | 0.6 | 0.8 | 8.2 | 9.6 | 7.2 | 12.6 | 320 | 36.5 | 25.9 | 2.80 | 1.38 | 22.0 | |
| SWH | 617 | 21 | 61.0 | 80.2 | 0.5 | 0.0 | 0.0 | 0.1 | 0.8 | 0.9 | 8.2 | 9.1 | 7.2 | 11.7 | 300 | 34.2 | 24.6 | 2.71 | 1.24 | 21.2 | |
| SWH | 8 | 112 | 61.5 | 80.9 | 0.4 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 8.3 | 9.2 | 6.4 | 12.5 | 299 | 34.0 | 27.6 | 2.69 | 1.27 | 21.5 | |
| SWH | 9 | 27 | 61.5 | 80.8 | 1.3 | 0.0 | 0.0 | 0.0 | 0.6 | 0.7 | 9.0 | 8.9 | 7.5 | 10.8 | 324 | 35.9 | 26.6 | 2.78 | 1.38 | 18.4 | |
| SWH | 10 | 116 | 62.6 | 81.6 | 0.3 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 | 8.6 | 9.2 | 7.1 | 12.5 | 308 | 37.1 | 27.5 | 2.82 | 1.35 | 19.9 | |
| SWH | 11 | 42 | 62.8 | 82.5 | 0.3 | 0.0 | 0.0 | 0.0 | 0.5 | 0.6 | 8.5 | 9.0 | 8.0 | 10.8 | 332 | 36.0 | 30.0 | 2.81 | 1.44 | 19.0 | |
| SWH | 12 | 4 | 61.1 | 80.3 | 0.3 | 0.0 | 0.1 | 0.0 | 0.3 | 0.4 | 8.8 | 9.2 | 8.3 | 9.6 | 276 | 46.0 | 21.2 | 2.97 | 1.47 | 21.1 | |
| SWH | 13 | 12 | 61.1 | 80.3 | 0.4 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 | 9.4 | 10.0 | 8.3 | 12.8 | 340 | 38.9 | 29.3 | 2.79 | 1.49 | 22.7 | |
| SWH | 14 | 38 | 61.4 | 80.7 | 0.5 | 0.0 | 0.1 | 0.1 | 0.7 | 0.9 | 9.3 | 10.0 | 6.9 | 12.7 | 341 | 35.9 | 29.0 | 2.76 | 1.57 | 19.8 | |
| | Crop Year Average | | | | | | | | | | | | | | | | | | | | |
| SWH | 2018 | 473 | 61.7 | 80.9 | 0.5 | 0.0 | 0.0 | 0.0 | 0.5 | 0.6 | 8.6 | 9.3 | | | 315 | 35.7 | 27.2 | 2.77 | 1.36 | 20.6 | |
| 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 | |
| WHCB | 4 | 3 | 60.4 | 79.5 | 0.7 | 0.0 | 0.0 | 0.1 | 0.8 | 0.9 | 8.9 | 9.3 | 7.0 | 10.7 | 348 | 29.7 | 29.9 | 2.61 | 1.39 | 18.8 | |
| WHCB | 5 | 3 | 60.7 | 79.8 | 0.4 | 0.0 | 0.2 | 0.1 | 1.2 | 1.4 | 8.1 | 8.6 | 7.9 | 9.4 | 292 | 30.7 | 29.9 | 2.58 | 1.24 | 13.2 | |
| WHCB | 617 | 4 | 59.4 | 78.1 | 0.4 | 0.0 | 0.0 | 0.1 | 1.2 | 1.2 | 7.6 | 10.1 | 6.2 | 13.6 | 265 | 30.2 | 24.3 | 2.54 | 1.43 | 19.5 | |
| WHCB | 8 | 86 | 61.0 | 80.2 | 0.5 | 0.0 | 0.0 | 0.1 | 0.8 | 0.9 | 7.8 | 9.0 | 6.4 | 11.8 | 311 | 33.8 | 25.7 | 2.62 | 1.25 | 16.4 | |
| WHCB | 9 | 1 | 65.1 | 85.5 | 0.9 | 0.0 | 0.0 | 0.1 | 0.4 | 0.5 | 8.9 | 9.2 | 9.2 | 9.2 | 379 | 32.4 | 48.2 | 2.76 | 1.33 | 18.1 | |
| WHCB | 10 | 15 | 62.2 | 81.8 | 0.5 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 8.7 | 9.4 | 7.8 | 10.7 | 333 | 31.1 | 32.1 | 2.62 | 1.31 | 16.0 | |
| WHCB | 11 | 16 | 61.9 | 81.4 | 0.5 | 0.0 | 0.0 | 0.0 | 0.7 | 0.8 | 8.7 | 8.5 | 7.5 | 9.9 | 335 | 30.5 | 34.2 | 2.64 | 1.39 | 11.4 | |
| | Crop Year Average | | | | | | | | | | | | | | | | | | | | |
| WHCB | 2018 | 128 | 61.2 | 80.5 | 0.5 | 0.0 | 0.0 | 0.1 | 0.8 | 0.9 | 8.1 | 9.0 | | | 316 | 32.8 | 27.9 | 2.62 | 1.29 | 15.8 | |
| 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 | |
| HRW | 4 | 4 | 59.7 | 78.6 | 1.6 | 0.0 | 0.0 | 0.1 | 0.6 | 0.7 | 7.6 | 13.5 | 12.6 | 14.9 | 439 | 25.8 | 73.2 | 2.57 | 1.46 | 32.0 | |
| HRW | 5 | 3 | 62.3 | 82.0 | 0.5 | 0.0 | 0.0 | 0.1 | 0.5 | 0.5 | 8.3 | 12.1 | 11.8 | 12.5 | 389 | 34.4 | 65.2 | 2.86 | 1.38 | 25.5 | |
| HRW | 617 | 11 | 63.2 | 83.1 | 0.4 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 8.8 | 11.6 | 9.3 | 15.0 | 355 | 36.8 | 67.4 | 2.91 | 1.44 | 25.9 | |
| HRW | 8 | 28 | 63.0 | 82.8 | 0.3 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 8.2 | 11.7 | 9.4 | 13.8 | 356 | 36.5 | 65.7 | 2.91 | 1.43 | 29.6 | |
| HRW | 9 | 3 | 63.3 | 83.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 8.2 | 12.8 | 10.6 | 14.2 | 366 | 40.4 | 63.0 | 3.02 | 1.31 | 33.4 | |
| HRW | 10 | 24 | 63.6 | 83.5 | 0.2 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 | 8.3 | 10.0 | 8.5 | 11.9 | 349 | 38.4 | 63.2 | 2.95 | 1.29 | 20.3 | |
| HRW | 11 | 21 | 63.6 | 83.6 | 0.4 | 0.0 | 0.0 | 0.0 | 0.5 | 0.6 | 8.3 | 10.0 | 9.1 | 12.4 | 357 | 38.4 | 63.2 | 2.99 | 1.31 | 20.9 | |
| HRW | 12 | 4 | 63.5 | 83.4 | 0.3 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 | 7.5 | 11.3 | 10.3 | 11.9 | 404 | 39.3 | 59.0 | 2.92 | 1.40 | 29.2 | |
| HRW | 13 | 5 | 60.8 | 80.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 7.2 | 12.2 | 11.7 | 13.7 | 397 | 31.0 | 73.4 | 2.86 | 1.53 | 25.7 | |
| HRW | 14 | 9 | 61.3 | 80.6 | 0.4 | 0.0 | 0.0 | 0.1 | 1.2 | 1.3 | 8.6 | 11.1 | 9.0 | 14.4 | 390 | 34.7 | 67.1 | 2.88 | 1.46 | 24.0 | |
| | Crop Year Average | | | | | | | | | | | | | | | | | | | | |
| HRW | 2018 | 112 | 62.9 | 82.7 | 0.3 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 8.3 | 11.1 | | | 365 | 36.7 | 65.3 | 2.92 | 1.38 | 25.1 | |
| 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 | |
| HRS | 4 | 4 | 60.6 | 79.7 | 0.6 | 0.0 | 0.0 | 0.1 | 0.8 | 0.8 | 8.3 | 15.0 | 13.9 | 16.3 | 373 | 31.6 | 69.4 | 2.76 | 1.53 | 36.8 | |
| HRS | 5 | 5 | 60.9 | 80.1 | 0.4 | 0.0 | 0.0 | 0.1 | 2.5 | 2.5 | 8.1 | 14.3 | 11.7 | 16.2 | 425 | 29.8 | 72.2 | 2.68 | 1.56 | 35.5 | |
| HRS | 617 | 6 | 64.4 | 84.6 | 0.3 | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 8.6 | 14.1 | 11.9 | 15.2 | 348 | 36.5 | 67.0 | 2.91 | 1.51 | 38.5 | |
| HRS | 8 | 24 | 63.0 | 82.8 | 0.3 | 0.0 | 0.1 | 0.0 | 0.5 | 0.5 | 8.3 | 14.3 | 10.5 | 16.2 | 382 | 34.9 | 69.3 | 2.87 | 1.53 | 36.7 | |
| HRS | 9 | 2 | 62.6 | 82.3 | 0.25 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 9.1 | 11.1 | 10.7 | 11.5 | 343 | 31.2 | 71.0 | 2.73 | 1.62 | 22.5 | |
| HRS | 10 | 15 | 63.5 | 83.5 | 0.3 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 | 8.1 | 13.9 | 11.0 | 15.6 | 404 | 32.4 | 74.1 | 2.78 | 1.49 | 33.5 | |
| HRS | 11 | 18 | 61.8 | 81.2 | 0.5 | 0.0 | 0.0 | 0.0 | 1.2 | 1.2 | 9.0 | 13.8 | 11.9 | 16.4 | 397 | 27.9 | 76.6 | 2.61 | 1.57 | 32.9 | |
| HRS | 12 | 2 | 63.6 | 83.5 | 0.4 | 0.0 | 0.0 | 0.1 | 0.4 | 0.5 | 8.0 | 15.1 | 14.7 | 15.4 | 437 | 40.4 | 61.7 | 3.06 | 1.66 | 43.3 | |
| HRS | 13 | 2 | 61.4 | 80.7 | 0.2 | 0.0 | 0.1 | 0.0 | 0.5 | 0.6 | 7.6 | 12.2 | 11.5 | 12.8 | 371 | 33.4 | 71.7 | 2.81 | 1.58 | 30.7 | |
| HRS | 14 | 17 | 62.3 | 81.9 | 0.5 | 0.0 | 0.0 | 0.0 | 0.5 | 0.6 | 9.9 | 14.5 | 13.3 | 15.8 | 369 | 31.6 | 74.0 | 2.73 | 1.64 | 35.4 | |
| | Crop Year Average | | | | | | | | | | | | | | | | | | | | |
| HRS | 2018 | 95 | 62.6 | 82.3 | 0.4 | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 | 8.7 | 14.1 | | | 386 | 32.3 | 72.2 | 2.77 | 1.56 | 35.0 | |
| 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 | |



BY PRODUCTION ZONES

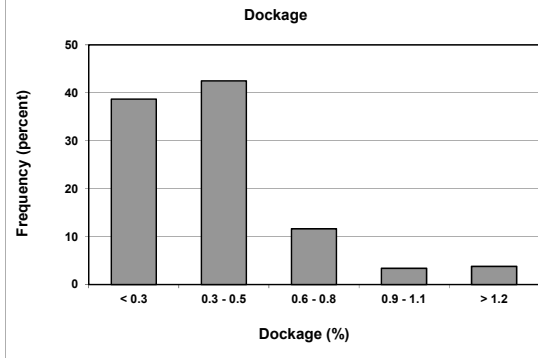
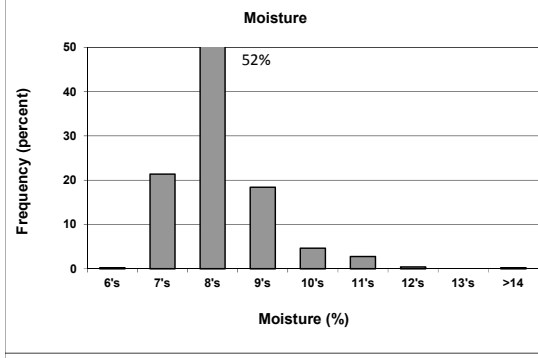
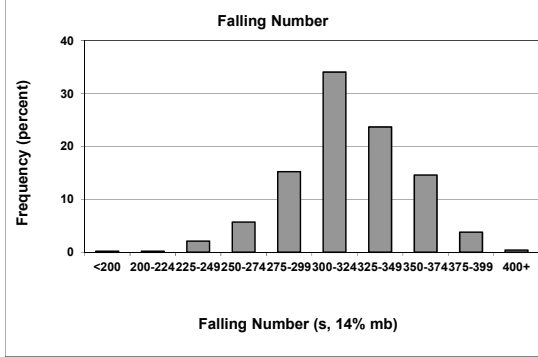
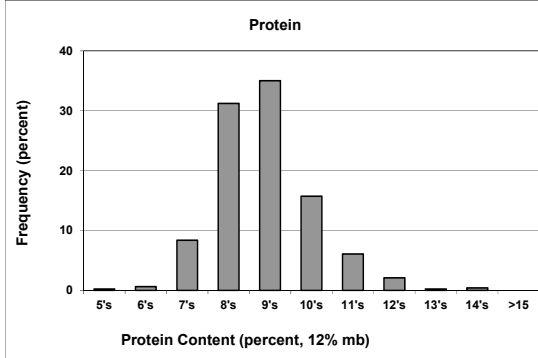
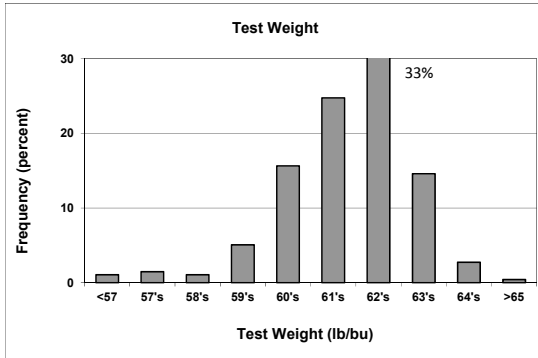
Table 2

| 2018 CROP WEEK 7 Final, September 13, 2018 | | | | | | | | | | | | | | | | | | | | |
|--|--------------------------|------------------|---------------------|---------------------|-------------|-----------------|------------------|----------------------|---------------------|-------------------|--------------|--------------------|------|------|---------------------------|------------------------------------|------------------------------|------------------|----------------|-----------------------|
| Class | District | Number of Sample | 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 | NC | 149 | 61.6 | 81.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.6 | 0.6 | 8.2 | 9.2 | 6.4 | 12.5 | 304 | 34.3 | 27.2 | 2.71 | 1.27 | 21.1 |
| SWH | NE | 161 | 62.5 | 81.7 | 0.5 | 0.0 | 0.0 | 0.0 | 0.4 | 0.5 | 8.7 | 9.1 | 7.1 | 12.5 | 318 | 36.8 | 28.1 | 2.81 | 1.38 | 19.4 |
| SWH | C | 95 | 60.9 | 79.3 | 0.6 | 0.0 | 0.0 | 0.1 | 0.6 | 0.7 | 8.5 | 9.5 | 7.0 | 14.4 | 323 | 34.4 | 25.6 | 2.75 | 1.37 | 22.2 |
| SWH | SW | 11 | 62.3 | 82.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 10.7 | 8.6 | 7.4 | 10.4 | 325 | 40.6 | 21.8 | 2.87 | 1.42 | 18.8 |
| SWH | SE | 57 | 61.3 | 80.6 | 0.4 | 0.0 | 0.1 | 0.1 | 0.6 | 0.7 | 9.3 | 9.9 | 6.9 | 12.8 | 333 | 37.7 | 28.2 | 2.79 | 1.54 | 20.6 |
| | Crop Year Average | | | | | | | | | | | | | | | | | | | |
| SWH | 2018 | 473 | 61.7 | 80.9 | 0.5 | 0.0 | 0.0 | 0.0 | 0.5 | 0.6 | 8.6 | 9.3 | | | 315 | 35.7 | 27.2 | 2.77 | 1.36 | 20.6 |
| 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 |
| WHCB | NC | 91 | 60.9 | 80.2 | 0.5 | 0.0 | 0.0 | 0.1 | 0.8 | 0.9 | 7.8 | 9.1 | 6.4 | 13.6 | 311 | 33.5 | 26.1 | 2.61 | 1.26 | 16.6 |
| WHCB | NE | 30 | 62.2 | 81.7 | 0.5 | 0.0 | 0.0 | 0.0 | 0.7 | 0.7 | 8.8 | 8.9 | 7.5 | 10.4 | 334 | 31.1 | 33.3 | 2.64 | 1.36 | 13.7 |
| WHCB | C | 7 | 60.4 | 79.4 | 0.6 | 0.0 | 0.1 | 0.1 | 0.9 | 1.1 | 8.3 | 8.6 | 6.2 | 10.7 | 291 | 30.7 | 27.7 | 2.61 | 1.33 | 14.9 |
| | Crop Year Average | | | | | | | | | | | | | | | | | | | |
| WHCB | 2018 | 128 | 61.2 | 80.5 | 0.5 | 0.0 | 0.0 | 0.1 | 0.8 | 0.9 | 8.1 | 9.0 | | | 316 | 32.8 | 27.9 | 2.62 | 1.29 | 15.8 |
| 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 |
| HRW | NC | 39 | 63.0 | 82.9 | 0.3 | 0.0 | 0.0 | 0.0 | 0.4 | 0.5 | 8.3 | 11.6 | 9.4 | 15.0 | 359 | 37.0 | 65.5 | 2.93 | 1.42 | 28.6 |
| HRW | NE | 45 | 63.6 | 83.6 | 0.3 | 0.0 | 0.0 | 0.0 | 0.4 | 0.5 | 8.3 | 10.1 | 8.5 | 14.2 | 354 | 38.7 | 63.2 | 2.97 | 1.31 | 21.3 |
| HRW | C | 10 | 61.4 | 80.8 | 0.8 | 0.0 | 0.0 | 0.1 | 0.5 | 0.6 | 8.4 | 12.3 | 9.3 | 14.9 | 374 | 30.1 | 70.2 | 2.68 | 1.40 | 27.1 |
| HRW | SE | 18 | 61.6 | 81.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 8.0 | 11.4 | 9.0 | 14.4 | 395 | 34.7 | 67.0 | 2.88 | 1.46 | 25.7 |
| | Crop Year Average | | | | | | | | | | | | | | | | | | | |
| HRW | 2018 | 112 | 62.9 | 82.7 | 0.3 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 8.3 | 11.1 | | | 365 | 36.7 | 65.3 | 2.92 | 1.38 | 25.1 |
| 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 |
| HRS | NC | 33 | 63.3 | 83.2 | 0.3 | 0.0 | 0.0 | 0.0 | 0.4 | 0.5 | 8.3 | 14.3 | 10.5 | 16.2 | 378 | 34.8 | 69.3 | 2.87 | 1.54 | 37.0 |
| HRS | NE | 31 | 62.5 | 82.2 | 0.4 | 0.0 | 0.0 | 0.0 | 0.9 | 0.9 | 8.7 | 13.6 | 10.7 | 16.4 | 393 | 30.0 | 75.6 | 2.68 | 1.53 | 32.1 |
| HRS | C | 10 | 60.9 | 80.1 | 0.5 | 0.0 | 0.0 | 0.1 | 2.0 | 2.0 | 8.2 | 14.6 | 11.7 | 16.3 | 403 | 30.6 | 70.6 | 2.72 | 1.53 | 36.0 |
| HRS | SE | 21 | 62.3 | 82.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.5 | 0.6 | 9.5 | 14.3 | 11.5 | 15.8 | 375 | 32.6 | 72.6 | 2.77 | 1.64 | 35.7 |
| | Crop Year Average | | | | | | | | | | | | | | | | | | | |
| HRS | 2018 | 95 | 62.6 | 82.3 | 0.4 | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 | 8.7 | 14.1 | | | 386 | 32.3 | 72.2 | 2.77 | 1.56 | 35.0 |
| 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 |

Distributions

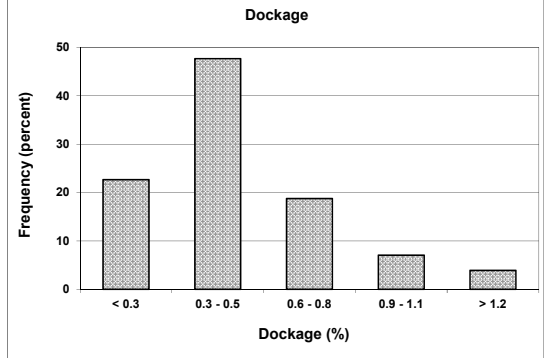
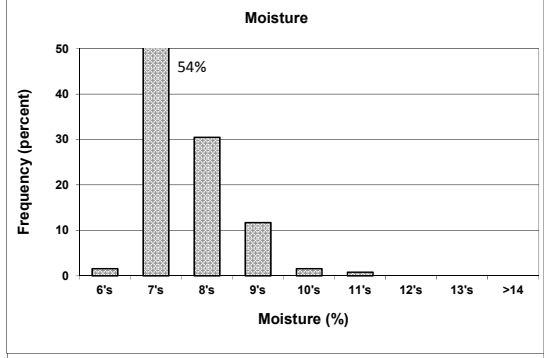
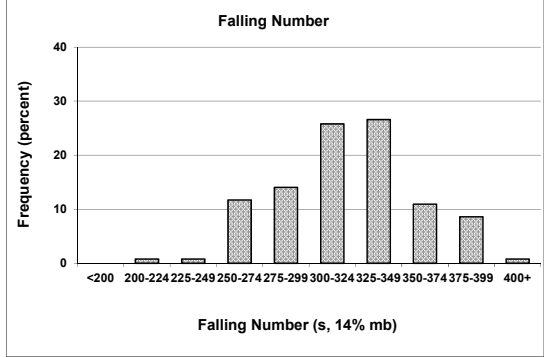
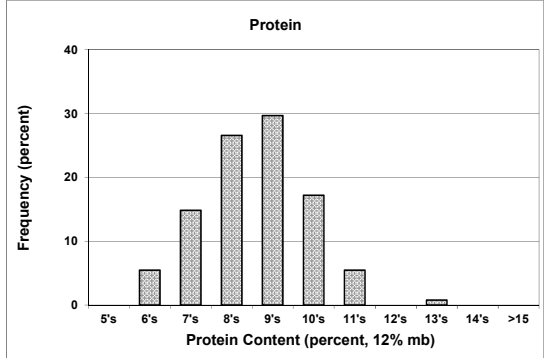
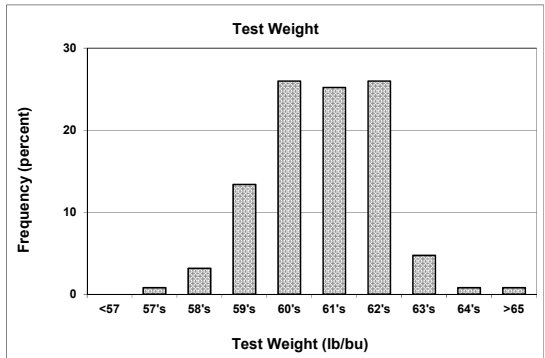
SOFT WHITE WHEAT

473 SAMPLES



WHITE CLUB WHEAT

128 SAMPLE



Prepared by: Wheat Marketing Center, Portland, Oregon