



2017 OREGON HARD WINTER ELITE YIELD TRIALS Walla Walla, WA (No-till)



Site Quality Index[†] = 3.5

1 = Poor 3 = Average 5 = Excellent

Site Description: Site received 3 applications of fungicides (Tilt and Quilt Xcel) to control foliar diseases.
Collaborative site with WSU Variety Testing and Northwest Grain Growers.
2 and 3-Year data is from the WSU variety trial program.

5 Year Average Yield = 107.0 bu/ac

| Entry | Variety | Class | Quality Rating [§] | 2017 Yield Data [‡] | | 2-Year Yield Data | | 3-Year Yield Data | |
|-------|-------------------|-------|-----------------------------|------------------------------|------|-------------------|------|-------------------|------|
| | | | | Yield bu/ac | Rank | Yield bu/ac | Rank | Yield bu/ac | Rank |
| 4 | LCS JET | HRW | A | 153.0 | 1 | 145.0 | 1 | 119.0 | 1 |
| 23 | WA 8268 | HRW | | 150.0 | 2 | | | | |
| 1 | LCS AYMERIC | HRW | | 148.0 | 3 | | | | |
| 10 | SY TOUCHSTONE | HRW | | 146.0 | 4 | 129.0 | 5 | | |
| 20 | XA 4103 | HRW | | 144.0 | 5 | | | | |
| 3 | LCS EVINA | HRW | D | 139.0 | 6 | | | | |
| 2 | LCS COLONIA | HRW | A | 135.0 | 7 | 133.0 | 4 | 108.0 | 5 |
| 6 | NSA 10-2196 | HRW | | 134.0 | 8 | 140.0 | 2 | 115.0 | 2 |
| 7 | NORWEST 553 | HRW | D | 133.0 | 9 | 133.0 | 3 | 108.0 | 4 |
| 14 | REBELDE | HRW | | 131.0 | 10 | | | | |
| 8 | OR 2130021R | HRW | | 131.0 | 11 | | | | |
| 21 | XA 4104 | HRW | | 130.0 | 12 | | | | |
| 22 | WA 8248 | HRW | | 129.0 | 13 | 128.0 | 6 | | |
| 24 | WA 8269 | HRW | | 127.0 | 14 | | | | |
| 15 | IDO 1506 | HWW | | 127.0 | 15 | | | | |
| 5 | LWW 14-73915 | HRW | | 126.0 | 16 | | | | |
| 17 | WB 4303 | HRW | | 124.0 | 17 | | | | |
| 13 | METROPOLIS | HRW | | 122.0 | 18 | | | | |
| 12 | MANDALA | HRW | | 121.0 | 19 | | | | |
| 16 | KELDIN | HRW | A | 119.0 | 20 | 127.0 | 7 | 114.0 | 3 |
| 11 | WHETSTONE | HRW | MD | 107.0 | 21 | 112.0 | 8 | 100.0 | 6 |
| 18 | WB 4623 CLP | HRW | | 107.0 | 22 | | | | |
| 19 | WB ARROWHEAD | HRW | MD | 100.0 | 23 | 111.0 | 9 | 99.0 | 7 |
| 9 | SY CLEARSTONE CL2 | HRW | | 83.0 | 24 | 97.0 | 10 | | |
| | Site Average | | | 128.0 | | 125.0 | | 108.0 | |
| | LSD (0.05) | | | 10.0 | | 6.0 | | 4.0 | |
| | CV (%) | | | 5.0 | | 5.0 | | 5.0 | |

[†] The Site Quality Index is based on the relative performance of check varieties to historical means and the degree of variability found within the trial.

Site Quality Index Descriptions:

- 1 = Poor; Site highly impacted by unusual environmental conditions making data unpubishable
- 2 = Below Average; Site was impacted by unusual environmental conditions. Variability was high.
- 3 = Average; Site was average with normal/acceptable environmental conditions. Variability was medium.
- 4 = Good; Site was representative of surrounding area with minimal environmental impact. Variability was low to medium.
- 5 = Excellent; Site was highly representative of surrounding area with no environmental impacts. Variability was very low.

[‡] Yield data corrected to 12% moisture; Grain yields shaded in gray are not significantly different from the highest yield at this site. Grain yields in bold met or exceeded the protein targets for their class.

* Indicates check variety.

[§] Quality rating based on data from the USDA Western Wheat Quality Laboratory.

Quality Ratings: MD = Most Desirable; D = Desirable; A=Acceptable; LD = Least Desirable; UCS = Unacceptable Except Customer-Specific Uses



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Long term test weight and grain protein data is not available.

| Entry | Variety | Class | Test Weight | Plant Height | Heading Date | Lodging | Protein |
|-------|-------------------|-------|-------------|--------------|--------------|---------|---------|
| | | | lbs/bu | inches | DOY | % | % |
| 4 | LCS JET | HRW | 64.7 | 37.0 | 140.0 | 12.0 | 12.1 |
| 23 | WA 8268 | HRW | 64.0 | 37.0 | 143.0 | 20.0 | 12.6 |
| 1 | LCS AYMERIC | HRW | 62.9 | 34.0 | 141.0 | 28.0 | 11.1 |
| 10 | SY TOUCHSTONE | HRW | 64.6 | 36.0 | 142.0 | 0.0 | 12.5 |
| 20 | XA 4103 | HRW | 65.8 | 39.0 | 137.0 | 27.0 | 12.1 |
| 3 | LCS EVINA | HRW | 63.8 | 40.0 | 145.0 | 47.0 | 12.9 |
| 2 | LCS COLONIA | HRW | 62.0 | 37.0 | 144.0 | 22.0 | 12.3 |
| 6 | NSA 10-2196 | HRW | 62.2 | 32.0 | 139.0 | 97.0 | 11.8 |
| 7 | NORWEST 553 | HRW | 64.6 | 34.0 | 142.0 | 47.0 | 12.5 |
| 14 | REBELDE | HRW | 65.4 | 35.0 | 139.0 | 2.0 | 13.9 |
| 8 | OR 2130021R | HRW | 64.0 | 36.0 | 143.0 | 97.0 | 12.3 |
| 21 | XA 4104 | HRW | 65.0 | 35.0 | 139.0 | 95.0 | 13.1 |
| 22 | WA 8248 | HRW | 65.2 | 36.0 | 141.0 | 97.0 | 13.0 |
| 24 | WA 8269 | HRW | 62.0 | 34.0 | 145.0 | 20.0 | 12.8 |
| 15 | IDO 1506 | HWW | 62.8 | 30.0 | 141.0 | 37.0 | 12.6 |
| 5 | LWW 14-73915 | HRW | 63.0 | 33.0 | 140.0 | 100.0 | 12.4 |
| 17 | WB 4303 | HRW | 63.1 | 35.0 | 139.0 | 100.0 | 13.0 |
| 13 | METROPOLIS | HRW | 64.0 | 34.0 | 140.0 | 100.0 | 13.7 |
| 12 | MANDALA | HRW | 64.3 | 37.0 | 146.0 | 100.0 | 12.6 |
| 16 | KELDIN | HRW | 63.3 | 36.0 | 142.0 | 100.0 | 13.0 |
| 11 | WHETSTONE | HRW | 62.6 | 37.0 | 140.0 | 100.0 | 13.3 |
| 18 | WB 4623 CLP | HRW | 63.3 | 40.0 | 142.0 | 95.0 | 14.7 |
| 19 | WB ARROWHEAD | HRW | 62.2 | 39.0 | 141.0 | 100.0 | 13.2 |
| 9 | SY CLEARSTONE CL2 | HRW | 61.6 | 42.0 | 142.0 | 100.0 | 13.9 |
| | Site Average | | 63.6 | 36.0 | 141.0 | 64.0 | 12.8 |
| | LSD (0.05) | | 0.8 | 3.0 | 1.0 | 25.0 | 0.5 |
| | CV (%) | | 1.0 | 5.0 | 1.0 | 29.0 | 3.0 |

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