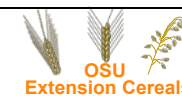




2013 Oregon Soft Winter Elite Yield Trials - Disease Notes



| Entry | Variety | Class | Fusarium Crown Rot | Barley Yellow Dwarf Virus [§] | Cephalosporium Stripe | Soilborne Wheat Mosaic Virus Rating [¶] | Strawbraker Foot Rot <i>Pseudocercospora</i> |
|-------|---------------|-------|--------------------|--|-----------------------|--|--|
| | | | Moro | Corvallis | Pendleton | Hermiston SBMV | Corvallis |
| | | | 6/29/2013 | 5/20/2013 | 6/25/2013 | 4/3/2013 | 8/19/2013 |
| | | | % Whiteheads | 1-5 Scale | % Whiteheads | 1 to 10 | % Lodging |
| 1 | STEPHENS* | SWW | 67.3 | 4.0 | 35.0 | 6.0 | 48.3 |
| 2 | TUBBS 06* | SWW | 49.3 | | 32.5 | 8.5 | 5.0 |
| 3 | GOETZE | SWW | 56.7 | | 20.8 | 7.0 | 3.3 |
| 4 | SKILES | SWW | 49.0 | 3.3 | 15.0 | 6.3 | 26.7 |
| 5 | MARY | SWW | 66.7 | | 33.3 | 6.0 | 25.0 |
| 6 | KASEBERG | SWW | 51.3 | 3.3 | 21.3 | 6.0 | 66.7 |
| 7 | LADD | SWW | 40.0 | 2.0 | 33.0 | 1.0 | 0.0 |
| 8 | BRUNEAU | SWW | 51.0 | 3.7 | 19.8 | 6.3 | 65.0 |
| 9 | 02-10606A | SWW | 50.0 | 3.3 | 11.8 | 5.8 | 51.7 |
| 10 | 99-06202A | SWW | 36.0 | 3.3 | 17.5 | 6.0 | 58.3 |
| 11 | 03-29902A | SWW | 41.7 | | 21.0 | 6.5 | 0.7 |
| 12 | IDO 1108 | SWW | 33.0 | 3.0 | 10.5 | 4.8 | 5.0 |
| 13 | LCS ARTDECO | SWW | 68.5 | | 32.8 | 7.0 | 83.3 |
| 14 | LWW 10-1018 | SWW | 61.7 | 4.0 | 17.3 | 6.3 | 76.7 |
| 15 | LWW 04-4009 | SWW | 46.0 | 2.3 | 16.3 | 6.0 | 96.7 |
| 16 | WA 8151 | SWW | 47.7 | 2.7 | 24.5 | 9.3 | 3.3 |
| 17 | WA 8153 | SWW | 35.7 | 3.0 | 13.8 | 7.8 | 26.7 |
| 18 | YS 221 | SWW | 16.7 | 2.0 | 15.5 | 6.3 | 96.3 |
| 19 | YS 461 | SWW | 41.0 | 3.7 | 11.3 | 6.5 | 33.3 |
| 20 | YS 434 | SWW | 19.7 | 1.7 | 12.8 | 6.3 | 96.7 |
| 21 | WB TRIFECTA | SWW | 52.3 | 3.0 | 22.0 | 6.3 | 36.7 |
| 22 | WB JUNCTION | SWW | 72.5 | 3.0 | 26.3 | 4.5 | 91.7 |
| 23 | WB EXP-427 | SWW | 55.7 | 2.7 | 23.5 | 6.5 | 13.3 |
| 24 | WB EXP-436 | SWW | 55.0 | 4.0 | 23.8 | 5.0 | 78.3 |
| 25 | LEGION | SWW | 55.0 | 3.0 | 32.0 | 8.0 | 71.7 |
| 26 | SY 107 | SWW | 55.0 | 4.0 | 18.3 | 6.3 | 30.0 |
| 27 | AP BADGER | SWW | 57.3 | 4.0 | 21.8 | 6.3 | 16.7 |
| 28 | SY OVATION | SWW | 62.0 | 3.0 | 20.5 | 1.0 | 33.3 |
| 29 | ORCF-101 | SWW | 55.0 | 3.0 | 22.0 | 5.3 | 15.0 |
| 30 | ORCF-102 | SWW | 56.0 | | 23.3 | 8.0 | 1.7 |
| 31 | ORCF-103 | SWW | 27.3 | 3.0 | 18.0 | 1.8 | 0.0 |
| 32 | ORI 2101840 | SWW | 51.7 | 3.3 | 27.0 | 7.0 | 1.7 |
| 33 | ORI 2101841 | SWW | 52.5 | 3.0 | 26.5 | 9.5 | 1.7 |
| 34 | WA 8143 | SWW | 29.3 | 2.3 | 10.0 | 5.5 | 96.3 |
| 35 | AP 700 CL | SWW | 58.3 | 3.0 | 27.0 | 6.5 | 0.0 |
| 36 | WB 1070 CL | SWW | 80.0 | 4.0 | 37.5 | 6.3 | 40.0 |
| 37 | CARA | Club | 19.3 | 3.3 | 10.8 | 6.8 | 0.0 |
| 38 | ARS 010669-2C | Club | 33.5 | 2.7 | 16.3 | 8.5 | 95.0 |
| 39 | ROSALYN | SWW | 38.0 | 3.0 | 21.3 | 7.3 | 0.0 |
| 40 | OR 2080641 | SWW | 42.5 | 2.7 | 25.8 | 5.8 | 0.0 |
| 41 | BOBTAIL | SWW | 27.0 | 2.3 | 11.0 | 6.3 | 1.7 |
| 42 | OR 2080924 | SWW | 51.7 | 3.0 | 12.3 | 9.8 | 0.0 |
| 43 | OR 2080637 | SWW | 38.3 | 3.3 | 7.8 | 6.0 | 74.7 |
| 44 | OR 2080926 | SWW | 42.3 | 3.3 | 14.5 | 8.8 | 1.7 |
| 45 | OR 2090473 | SWW | 60.7 | 3.0 | 18.3 | 6.5 | 3.3 |
| | Site Average | | 47.5 | 3.1 | 20.7 | | 35.2 |
| | LSD (0.05) | | 17.0 | 1.1 | 14.2 | | 29.6 |
| | CV (%) | | 20.3 | 21.4 | 48.8 | 0.9 | 51.5 |

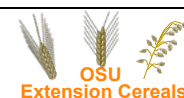
* Indicates check variety

§ Barley Yellow Dwarf Virus Rating. Ratings range from 1 to 5, where 1 represents plants not expressing BYDV and 5 represents severe BYDV. Varieties with severe stripe rust could not be rated.

¶ Ratings by Tim Murray and Henry Wetzel; WSU. Visual ratings of plot damage range from 1 to 10, where 1 represents no visible damage and 10 represents significant damage with severe discoloration and stunting of infected plants.



2013 Oregon Soft Winter Elite Yield Trials - Disease Notes



| Entry | Variety | Class | Stripe Rust Rating | | Septoria Rating | | Stripe Rust Rating | | Total Foliar Disease [†] | | Washington Stripe Rust Ratings [‡] | |
|-------|---------------|-------|-------------------------|------|-------------------------|------|-------------------------|---|-----------------------------------|---|---|--|
| | | | South Willamette Valley | | South Willamette Valley | | South Willamette Valley | | South Willamette Valley | | Pullman | |
| | | | 4/12/2013 | | 4/12/2013 | | 5/8/2013 | | 6/14/2013 | | 6/18/2013 | |
| | | | % | % | % | % | % | | IT | % | | |
| 1 | STEPHENS* | SWW | 7.5 | 18.8 | | 9.8 | 98.0 | 5 | 30 | | | |
| 2 | TUBBS 06* | SWW | 18.8 | 10.0 | | 25.3 | 98.0 | 8 | 60 | | | |
| 3 | GOETZE | SWW | 16.3 | 10.0 | | 23.8 | 90.0 | 5 | 30 | | | |
| 4 | SKILES | SWW | 0.3 | 16.3 | | 0.5 | 58.8 | 2 | 1 | | | |
| 5 | MARY | SWW | 11.3 | 10.0 | | 18.0 | 97.0 | 5 | 30 | | | |
| 6 | KASEBERG | SWW | 0.3 | 6.3 | | 7.8 | 50.0 | 5 | 20 | | | |
| 7 | LADD | SWW | 10.0 | 13.8 | | 9.0 | 63.8 | 5 | 15 | | | |
| 8 | BRUNEAU | SWW | 6.0 | 9.3 | | 2.5 | 80.0 | 5 | 10 | | | |
| 9 | 02-10606A | SWW | 2.3 | 10.0 | | 1.5 | 82.5 | 3 | 10 | | | |
| 10 | 99-06202A | SWW | 3.3 | 8.8 | | 2.5 | 82.5 | 3 | 10 | | | |
| 11 | 03-29902A | SWW | 10.0 | 12.5 | | 10.8 | 93.8 | 3 | 20 | | | |
| 12 | IDO 1108 | SWW | 0.0 | 12.5 | | 0.3 | 70.0 | 3 | 20 | | | |
| 13 | LCS ARTDECO | SWW | 3.5 | 10.0 | | 11.3 | 95.5 | 3 | 10 | | | |
| 14 | LWW 10-1018 | SWW | 1.5 | 20.0 | | 0.0 | 75.0 | 3 | 5 | | | |
| 15 | LWW 04-4009 | SWW | 6.3 | 10.0 | | 2.5 | 55.0 | 3 | 10 | | | |
| 16 | WA 8151 | SWW | 2.8 | 10.0 | | 4.3 | 81.3 | 3 | 10 | | | |
| 17 | WA 8153 | SWW | 4.0 | 10.0 | | 1.0 | 42.5 | 3 | 5 | | | |
| 18 | YS 221 | SWW | 5.8 | 4.0 | | 2.0 | 38.8 | 3 | 5 | | | |
| 19 | YS 461 | SWW | 3.5 | 4.0 | | 1.3 | 57.5 | 3 | 5 | | | |
| 20 | YS 434 | SWW | 6.3 | 4.5 | | 1.0 | 28.8 | 3 | 10 | | | |
| 21 | WB TRIFECTA | SWW | 7.0 | 10.0 | | 5.5 | 60.0 | 3 | 10 | | | |
| 22 | WB JUNCTION | SWW | 3.5 | 8.8 | | 2.5 | 90.0 | 5 | 20 | | | |
| 23 | WB EXP-427 | SWW | 0.8 | 17.5 | | 0.8 | 37.5 | 5 | 5 | | | |
| 24 | WB EXP-436 | SWW | 1.3 | 12.5 | | 0.0 | 80.0 | 5 | 10 | | | |
| 25 | LEGION | SWW | 3.5 | 8.8 | | 1.8 | 71.3 | 3 | 5 | | | |
| 26 | SY 107 | SWW | 21.3 | 12.5 | | 15.0 | 88.8 | 5 | 20 | | | |
| 27 | AP BADGER | SWW | 21.3 | 11.3 | | 21.8 | 82.5 | 8 | 20 | | | |
| 28 | SY OVATION | SWW | 3.8 | 10.0 | | 4.3 | 83.8 | 3 | 20 | | | |
| 29 | ORCF-101 | SWW | 3.5 | 10.0 | | 5.3 | 61.3 | 3 | 20 | | | |
| 30 | ORCF-102 | SWW | 17.5 | 10.0 | | 19.0 | 90.8 | 5 | 15 | | | |
| 31 | ORCF-103 | SWW | 13.8 | 10.0 | | 17.3 | 98.0 | 5 | 20 | | | |
| 32 | ORI 2101840 | SWW | 2.0 | 11.3 | | 0.8 | 73.8 | 3 | 5 | | | |
| 33 | ORI 2101841 | SWW | 3.3 | 8.8 | | 4.5 | 81.3 | 3 | 5 | | | |
| 34 | WA 8143 | SWW | 3.0 | 8.8 | | 4.0 | 86.3 | 5 | 30 | | | |
| 35 | AP 700 CL | SWW | 4.5 | 10.0 | | 1.5 | 71.3 | 5 | 10 | | | |
| 36 | WB 1070 CL | SWW | 4.0 | 10.0 | | 6.3 | 61.3 | 3 | 10 | | | |
| 37 | CARA | Club | 0.0 | 7.5 | | 0.0 | 22.5 | 2 | 1 | | | |
| 38 | ARS 010669-2C | Club | 0.0 | 5.0 | | 2.5 | 50.0 | 3 | 10 | | | |
| 39 | ROSALYN | SWW | 0.8 | 13.8 | | 1.0 | 60.0 | 3 | 5 | | | |
| 40 | OR 2080641 | SWW | 7.8 | 13.8 | | 3.0 | 78.8 | 5 | 10 | | | |
| 41 | BOBTAIL | SWW | 0.8 | 6.3 | | 0.5 | 30.0 | 2 | 5 | | | |
| 42 | OR 2080924 | SWW | 1.3 | 8.0 | | 0.8 | 51.3 | 2 | 5 | | | |
| 43 | OR 2080637 | SWW | 0.8 | 16.3 | | 0.0 | 53.8 | 2 | 1 | | | |
| 44 | OR 2080926 | SWW | 7.5 | 10.0 | | 6.8 | 65.0 | 3 | 5 | | | |
| 45 | OR 2090473 | SWW | 2.8 | 10.0 | | 5.3 | 53.8 | 3 | 10 | | | |
| | Site Average | | 5.7 | 10.5 | | 5.9 | 69.4 | | | | | |
| | LSD (0.05) | | 5.7 | 3.7 | | 3.0 | 12.7 | | | | | |
| | CV (%) | | 72.3 | 25.1 | | 37.0 | 13.0 | | | | | |

* Indicates check variety

‡ Washington stripe rust infection type (IT) and severity (%) provided by Xianming Chen, Research Plant Pathologist, USDA-ARS/WSU

† Total Foliar Disease rating is the percentage of the total leaf canopy infected by stripe rust and/or septoria.