

Stripe Rust Variety Resistance Update

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The following are preliminary stripe rust ratings from our statewide variety trials (taken by Christina Hagerty).

Neither of these sites were sprayed with fungicides at any point during the growing season. The Pendleton trial did not experience the early season infection seen in many commercial fields. While rating the Lexington trial, we observed old lesions on the lower leaves of some varieties that had no stripe rust in the upper canopy. This suggests that early season infection was more widespread, but high-temperature adult plant resistance was able to mitigate later season infection for most varieties. (We were not able to get good ratings for these lesions in the lower canopy.)

Looking at ratings for individual varieties, Piranha CL+ (5.8% infection) and Sockeye CL+ (3.5% infection) were hit harder than we've seen in the past. AP Olympia (1.3% infection), a newer variety that may be a fit in the Willamette Valley or irrigated systems, had a low but significant level of infection (in contrast to previous years, where we did not observe any infection on AP Olympia in our trials). VI Voodoo CL+ (2.7% infection) was also affected by stripe rust.

Variety	Class	Pendleton Ave of 4-30 and 5-16	Lexington 5 1	Overall Average
WFX69113	SWW	5.7	32.0	18.8
PN18M604566	SWW	6.0	20.0	13.0
Piranha CL+	SWW	2.3	9.3	5.8
WA8444 AX	SWW	2.8	8.3	5.6
Sockeye CL+	SWW	2.0	5.0	3.5
Stephens	SWW	0.5	5.0	2.8
VI Voodoo CL+	SWW	1.3	4.0	2.7
WB1621	SWW	0.3	2.3	1.3
AP Olympia	SWW	0.5	2.0	1.3
Nova AX	SWW	0.8	1.3	1.1
ARS Crescent	Club	1.7	0.3	1.0
WA8448	SWW	1.0	1.0	1.0
VI Gem	SWW	0.5	1.3	0.9
LCS Jefe	SWW	0.2	1.3	0.8
WB1922	SWW	0.8	0.7	0.8
OR5210096	Club	0.3	1.0	0.7
UIL 14-211120A	SWW	0.2	1.0	0.6
Cameo	Club	0.0	1.0	0.5
LCS Blackjack	SWW	0.0	1.0	0.5
UIL 19-714028A	SWW	1.0	0.0	0.5
OR2190671	SWW	0.8	0.0	0.4
OR5190016	Club	0.5	0.3	0.4
LWW21-1436	SWW	0.3	0.3	0.3
LWW23-2001	SWW	0.3	0.3	0.3
LWWC23-5075 CL+	SWW	0.0	0.7	0.3
TMC M-Press	SWW	0.3	0.3	0.3
LCS Mazama	SWW	0.5	0.0	0.3
OR2210456	SWW	0.2	0.3	0.3
LWW22-1232	SWW	0.0	0.3	0.2
LWW22-2425	SWW	0.0	0.3	0.2
LWWC21-5070 CL+	SWW	0.0	0.3	0.2
OR2180149	SWW	0.0	0.3	0.2
OR2200083 CL+	SWW	0.0	0.3	0.2
Rosalyn	SWW	0.3	0.0	0.2
TMC M-Pire	SWW	0.0	0.3	0.2
UIL 19-713070A	SWW	0.0	0.3	0.2
VI Encore CL+	SWW	0.0	0.3	0.2
WA8441	SWW	0.3	0.0	0.2
AP Iliad	SWW	0.2	0.0	0.1
OR3230013 AX	SWW	0.2	0.0	0.1
OR3230026 AX	SWW	0.2	0.0	0.1

Variety	Class	Lexington 5-1
WB4303	HRW	70.0
WB4640	HRW	25.0
LCS Jet	HRW	14.3
OR3230010H AX	HRW	10.3
OR2190064R	HRW	3.7
LCS Top Gun	HRW	2.0
OR2220147R	HRW	1.3
OR2210099R	HRW	1.0
WB4510 CLP	HRW	0.7
LCS Missile	HRW	0.3
LCS Blackbird	HRW	0.0
LWH22-1003	HRW	0.0
LWH22-5463	HRW	0.0
OR2190160R	HRW	0.0
OR2190165R	HRW	0.0
OR3230008H AX	HRW	0.0
Scorpio	HRW	0.0
WA8469	HRW	0.0
Average		7.1
LSD		7.2

Variety	Class	Pendleton Ave of 4-30 and 5-16	Lexington 5 1	Overall Average
AP Exceed	SWW	0.0	0.0	0.0
ARS14X1114RS-3CBW	Club	0.0	0.0	0.0
Gale	SWW	0.0	0.0	0.0
LCS Kamiak	SWW	0.0	0.0	0.0
LCS Scorpion AX	SWW	0.0	0.0	0.0
LCS Shine	SWW	0.0	0.0	0.0
LWW22-2864	SWW	0.0	0.0	0.0
LWW22-4020	SWW	0.0	0.0	0.0
LWWA19-0291-28	SWW	0.0	0.0	0.0
Mallory CL+	SWW	0.0	0.0	0.0
OR2210394	SWW	0.0	0.0	0.0
OR3230023 AX	SWW	0.0	0.0	0.0
UIL 18-147060B	SWW	0.0	0.0	0.0
Average		0.6	1.9	1.3
LSD (0.05)		1.1	4.0	