

Cephalosporium Stripe Disease Evaluation 2017-18

Palouse Conservation Field Station, Pullman, WA

Dr. Tim Murray, Washington State University

Entry	% infected	Severity	Index	Entry	% infected	Severity	Index
Norwest Tandem (LOR-334)	83.9	2.8	47.4	LWW14-73161	88.1	3.6	65.0
Eltan (R control)	83.6	2.8	47.4	UI Castle CL+	94.2	3.5	65.9
Mandala	86.6	2.7	47.9	LWW14-73163	91.0	3.6	66.3
Jasper	89.9	2.7	48.6	M-Press	92.3	3.6	67.1
LWW14-72916	91.3	2.7	49.2	WB1783	95.5	3.6	68.1
KXB-01	93.0	2.8	52.2	Dyna-Gro Impact	94.0	3.7	68.9
LCS Jet	83.1	3.2	53.9	SY Clearstone CL2	97.2	3.6	69.2
WA 8232	91.5	2.9	54.3	SY Raptor (SY 46#16)	95.7	3.7	71.6
Keldin	81.8	3.2	54.6	WB4303	93.4	3.9	72.9
WB1529	92.3	3.0	55.1	SY Command (SY 04PN066-7)	98.0	3.7	72.9
WB1532	94.3	2.9	55.1	SY Banks (SY 09PN005#25)	96.5	3.8	73.4
LCS Drive (LWW12-7105)	82.9	3.3	55.2	WB1604	95.7	3.9	74.5
SY Touchstone	86.4	3.3	57.2	WA 8234	96.0	3.9	75.5
SY Dayton (SY 09PN062#18)	94.7	3.1	58.6	Stephens (S control)	92.7	4.1	75.8
Norwest Duet (LOR-092)	93.5	3.1	58.7	NSA10-2196	95.7	4.1	78.6
UI Palouse CL+	94.5	3.2	59.6	LWW14-71195	91.6	4.3	79.1
Sequoia (WA 8180)	88.5	3.4	61.2	SY Assure	98.5	4.2	83.2
UI Magic CL+	84.6	3.6	61.6				
WB1376CLP	86.5	3.7	63.3	Mean	91.2	3.4	63.1
ARS20060123-31C	85.1	3.8	64.0	Prob >F	0.3656	<0.0001	<0.0001
				LSD 5%	13.0	0.6	16.3

This experiment was planted on 15 September 2017 with a head-row planter and inoculated on 6 October 2017 by spreading *Cephalosporium gramineum* infested oats evenly over the field site. Each two-row plot was 3' long. Plants were evaluated for disease incidence and severity on 25 June-3 July 2018 by removing a 0.5 M section of row and then visually rating plants for disease symptoms using a 0 to 5 scale where a 5 = dead head, 4 = stripes in the flag leaf, and 0 = no stripes in the upper four leaves. Disease index combines the % infected stems and disease severity into a single rating ranging from 0-100, where 0=all healthy plants and 100=all plants with dead, "white" heads. Eltan is tolerant and Stephens is susceptible.

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