Eyespot Disease Evaluation 2017-18

Plant Pathology Farm, Pullman, WA

Dr. Tim Murray, Washington State University

Entry	% infected	Severity	Index	Entry	% infected	Severity	Index
WB1783	10.4	1.3	3.6	WB1529	35.5	2.5	22.5
Dyna-Gro Impact	9.7	2.0	4.6	UI Magic CL+	34.8	2.6	22.8
LCS Jet	12.1	1.8	6.5	SY Assure	38.5	2.3	22.8
ARS20060123-31C	16.6	1.8	7.3	WB1604	43.6	2.2	23.7
SY Banks (SY 09PN005#25)	15.9	1.9	8.7	PNW Hailey	37.5	2.7	24.5
Madsen (R control)	**21.1**	**1.7**	**9.4**	M-Press	40.1	2.4	24.5
WA 8234	21.7	2.1	11.9	Keldin	35.4	2.8	24.8
LWW14-71195	26.7	1.8	12.3	LWW14-72916	42.6	2.5	25.8
LWW14-73161	22.3	2.3	12.6	WA 8232	40.9	2.6	26.5
WB 1376CLP	24.7	2.0	12.6	UI Palouse CL+	45.0	2.5	27.2
SY Touchstone	27.0	1.9	13.0	SY Command (SY 04PN066-7)	41.2	2.7	28.1
LCS Drive (LWW12-7105)	27.3	1.8	13.2	WB4303	47.3	2.7	31.7
Norwest Duet (LOR-092)	25.0	2.2	13.9	Mandala	46.7	2.7	32.7
WB1532	30.2	1.9	14.6	Jasper	50.1	2.7	33.9
Norwest Tandem (LOR-334)	29.1	2.0	14.8	KXB-01	50.4	2.9	36.4
SY Raptor (SY 46#16)	26.8	2.6	17.2	SY Clearstone CL2	51.6	2.8	36.7
SY Dayton (SY 09PN062#18)	29.5	2.3	18.8	Sequoia (WA 8180)	54.2	3.0	40.2
NSA10-2196	30.8	2.4	19.6	**Eltan (S control)**	**62.4**	**2.9**	**44.5**
UI Castle CL+	33.5	2.4	19.9				
LWW14-73163	29.5	2.7	20.1	**Mean**	**33.4**	**2.3**	**20.7**
WB4311 (XA4104)	34.0	2.6	22.3	**Prob >F**	**<0.0001**	**<0.0001**	**<0.0001**
				LSD 5%	**18.1**	**0.6**	**12.9**

This experiment was planted on 4 October 2017 with a head-row planter and inoculated on 13 October 2017 by spreading *Oculimacula yallundae and O. acuformis* infested oats evenly over the field site. Each two-row plot was 3' long.

Plants were rated for disease incidence and severity on 13-22 June 2018 by digging enough plants for a 100 tiller sample. Stem bases were visually rated for symptom severity using a 0 to 4 scale where a 0 = no lesion and 4 = lesion girdling the stem. Disease index reflects the % infected stems and disease severity in a single rating ranging from 0-100, where 0 =all healthy plants and 100=all plants with severe disease. Madsen is resistant control and Eltan is susceptible.

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