

Ontario Phytophthora Tolerance Test 2022: Woodslee, Ontario

This Report Contains Published Registered Varieties Only

Planting Date: June 2, 2022

Stand Count Dates:

HUZ	Date
2200	August 11, 2022
2400	August 11, 2022
2600	September 1, 2022
2800	September 1, 2022
3100	September 15, 2022
3400	September 15, 2022

Plot Size: Single row, 50 seeds/row

Replications: 4, randomized blocks

Phytophthora root rot testing is carried out on clay soils infested with common races of Phytophthora at Woodslee. Phytophthora Root Rot (PRR) ratings were changed starting in 2019. Previous methodology used counting plants shortly after emergence (3-4 weeks after planting) and a subsequent counting 4 weeks later. The loss was estimated based on the difference between count 2 and count 1, taken as a percentage. The limitation in this counting method is that it does not take into account pre-emergence mortality due to PRR nor does it take into account late season mortality. Starting in 2019 we began expressing the PRR ratings based on final stand in a High phytophthora pressure environment. This final stand was only rated once for all maturity groups and this was again changed to rate the plants near the R6 growth stage which was done in 2020 in order to capture late season PRR damage.

2022 Phytophthora Tolerance Test MG00E (2200)

Entry	Name		Final Stand	% Stand	% Loss
1	AAC Hensatto		18.75	37.5	62.5
2	Abaca		22.00	44.0	56.0
3	Baffin		30.00	60.0	40.0
4	Bourke R2X		27.25	54.5	45.5
6	DKB0009-89		20.75	41.5	58.5
7	DKB002-32		22.50	45.0	55.0
8	DKB006-80		23.25	46.5	53.5
9	Elmo E3		27.25	54.5	45.5
10	Evo E3		13.00	26.0	74.0
13	Fresco R2X		9.50	19.0	81.0
14	Gecko R2X		20.00	40.0	60.0
15	Hana		19.75	39.5	60.5
16	Hart R2X		15.25	30.5	69.5
17	Jago		29.25	58.5	41.5
18	Kudo R2X		21.25	42.5	57.5
19	Liska		19.75	39.5	60.5
20	Mahony R2		28.00	56.0	44.0
22	Maya		25.75	51.5	48.5
23	Merino R2X		24.75	49.5	50.5
29	P005A83X		22.00	44.0	56.0
30	P006A37X		27.00	54.0	46.0
31	PS 0011 XRN		18.50	37.0	63.0
32	S0007-S1X		24.75	49.5	50.5
33	S0009-F2X		11.00	22.0	78.0
34	S0009-M2		24.75	49.5	50.5
35	S001-D8X		22.25	44.5	55.5
36	S003-R5X		28.50	57.0	43.0
37	S006-K3X		33.00	66.0	34.0
38	S007-A2XS		18.50	37.0	63.0
39	S007-Y4		30.00	60.0	40.0
40	S007-Z1X		7.75	15.5	84.5
41	S008-N2		13.75	27.5	72.5
42	Siberia		12.50	25.0	75.0
44	Koa		15.75	31.5	68.5
45	Triquet R2X		12.25	24.5	75.5
47	Sloan	check - low field tolerance, rps	5.00	10.0	90.0
48	Conrad	check - high field tolerance, rps	20.25	40.5	59.5
49	Williams	check - moderate field tolerance, rps	23.50	47.0	53.0
50	OX20-8	check - no field tolerance, Rps 1a	0.00	0.0	100.0
51	Haro(1-7)1	check - minimal field tolerance, rps	0.75	1.5	98.5
Mean of Entries			20.72		
CV			53.53		

2022 Phytophthora Tolerance Test MG00 (2400)

Entry	Name		Final Stand	% Stand	% Loss
1	Amino R2X		25.50	51.0	49.0
2	Atiron		20.75	41.5	58.5
3	b0061E		26.00	52.0	48.0
4	Bronco R2X		7.75	15.5	84.5
5	DKB008-48		27.00	54.0	46.0
6	DKB03-25		11.00	22.0	78.0
7	Donaldo R2X		14.75	29.5	70.5
8	S03-V5E3		32.25	64.5	35.5
9	Emilio E3		25.75	51.5	48.5
10	PS 0072 XR		14.50	29.0	71.0
11	LS 008R21		10.00	20.0	80.0
12	Caliper E3		20.25	40.5	59.5
13	Panorama		29.25	58.5	41.5
14	PRO 03X74		9.50	19.0	81.0
15	PRO 2525R2		13.50	27.0	73.0
16	PS 0098 XR		19.25	38.5	61.5
17	Rico R2X		18.25	36.5	63.5
18	S01-C4X		13.25	26.5	73.5
19	S02-M4XF		14.00	28.0	72.0
20	S04-J6X		23.00	46.0	54.0
21	Salto R2		35.25	70.5	29.5
22	SI 007XTN		21.25	42.5	57.5
28	Utica		31.00	62.0	38.0
31	Verso R2X		16.75	33.5	66.5
32	Sloan	check - low field tolerance, rps	5.25	10.5	89.5
33	Conrad	check - high field tolerance, rps	16.50	33.0	67.0
34	Williams	check - moderate field tolerance, rps	20.00	40.0	60.0
35	OX20-8	check - no field tolerance, Rps 1a	0.25	0.5	99.5
36	Haro(1-7)1	check - minimal field tolerance, rps	1.25	2.5	97.5
Mean of Entries			21.66		
CV			54.33		

2022 Phytophthora Tolerance Test MGO (2600)

Entry	Name	Final Stand	% Stand	% Loss
1	AAC Kovik	26.25	52.5	47.5
2	AAC Larkin	28.75	57.5	42.5
3	AAC Shinju	31.00	62.0	38.0
4	Abiola	30.50	61.0	39.0
5	Acora	23.50	47.0	53.0
6	Alameda	31.25	62.5	37.5
7	Albenga	32.00	64.0	36.0
8	Altitude R2	33.75	67.5	32.5
9	Angelica	27.75	55.5	44.5
10	Apollina	29.00	58.0	42.0
11	Asahi	20.00	40.0	60.0
12	Asana	28.50	57.0	43.0
13	Atacama	19.75	39.5	60.5
14	Atena	31.50	63.0	37.0
15	Aurelina	21.25	42.5	57.5
16	Axis E3	23.00	46.0	54.0
17	Aya	25.50	51.0	49.0
18	B036CE	30.50	61.0	39.0
19	B074HE	24.75	49.5	50.5
20	B091FE	17.75	35.5	64.5
21	Beliveau R2X	36.25	72.5	27.5
22	S09-B5XF	33.50	67.0	33.0
23	S06-A3XF	28.00	56.0	44.0
35	Cypress	31.50	63.0	37.0
36	DKB06-76	29.50	59.0	41.0
37	DKB11-84	36.00	72.0	28.0
40	Dunham	25.50	51.0	49.0
41	Dyno R2X	24.75	49.5	50.5
42	Enyo E3	35.75	71.5	28.5
43	EW2021083	34.75	69.5	30.5
46	PS 0944 XRN	27.25	54.5	45.5
47	Expand R2X	24.25	48.5	51.5
48	Ezra	30.50	61.0	39.0
49	Finch	39.50	79.0	21.0
50	Genesis	23.75	47.5	52.5
51	Haltifo	17.25	34.5	65.5
52	Harvey E3	26.00	52.0	48.0
54	Kagawa	23.25	46.5	53.5
55	Kazart	14.75	29.5	70.5
56	Kristian	34.25	68.5	31.5
57	Kyoto	28.00	56.0	44.0
58	Landmark E3	27.50	55.0	45.0
59	Lindber	25.00	50.0	50.0
60	Marula	32.00	64.0	36.0

Entry	Name	Final Stand	% Stand	% Loss
61	Miko R2	16.50	33.0	67.0
62	Mozart	12.75	25.5	74.5
64	Nano R2X	39.00	78.0	22.0
65	Neptune	36.50	73.0	27.0
71	OAC Acclaim	34.00	68.0	32.0
72	OAC Champion	20.00	40.0	60.0
73	OAC Elevation	16.75	33.5	66.5
74	OAC Evolution	22.00	44.0	56.0
75	OAC Hastings	17.50	35.0	65.0
76	OAC Kamran	27.25	54.5	45.5
77	OAC Lakeview	20.50	41.0	59.0
78	OAC Strive	35.25	70.5	29.5
79	OAC Wallace	22.00	44.0	56.0
80	Orr R2X	38.75	77.5	22.5
110	P04A98E	23.00	46.0	54.0
111	P05A35X	37.50	75.0	25.0
112	P06A38E	36.75	73.5	26.5
113	P06A48X	32.25	64.5	35.5
115	P09A53X	26.75	53.5	46.5
116	P09A62X	30.00	60.0	40.0
117	Park E3	16.25	32.5	67.5
118	Hola	21.50	43.0	57.0
121	Acuna	10.50	21.0	79.0
122	Wilma	32.00	64.0	36.0
125	PS 0322 EN	23.25	46.5	53.5
126	PS 0420 XRN	20.75	41.5	58.5
127	PS 0521 XRN	24.25	48.5	51.5
128	PS 0779 XRN	33.25	66.5	33.5
129	Ramage XF	29.50	59.0	41.0
130	S03-P4	26.75	53.5	46.5
131	S04-K9	29.50	59.0	41.0
132	S07-K5X	36.50	73.0	27.0
133	S07-M8	24.75	49.5	50.5
134	S09-H7E3	30.75	61.5	38.5
135	S10-R2	35.50	71.0	29.0
136	S10-W8XF	37.75	75.5	24.5
137	S12-M5X	33.50	67.0	33.0
138	Samson E3	25.50	51.0	49.0
139	Graves E3	32.00	64.0	36.0
140	Savage R2X	19.25	38.5	61.5
141	Perry E3	30.50	61.0	39.0
142	Reece R2X	38.75	77.5	22.5
143	Seabrook R2X	31.50	63.0	37.0
144	OAC Carson	28.50	57.0	43.0
149	SI 0620XTN	27.50	55.0	45.0
150	SI 0720E3N	38.00	76.0	24.0
151	SI 0921XTN	17.50	35.0	65.0

Entry	Name		Final Stand	% Stand	% Loss
152	SI 1120E3N		31.75	63.5	36.5
153	Skyline		36.00	72.0	28.0
155	Matilda		23.00	46.0	54.0
156	Navan		36.00	72.0	28.0
165	Vertigo R2		36.50	73.0	27.0
167	Elico E3		24.00	48.0	52.0
168	Sloan	check - low field tolerance, rps	4.00	8.0	92.0
169	Conrad	check - high field tolerance, rps	23.25	46.5	53.5
170	Williams	check - moderate field tolerance, rps	26.75	53.5	46.5
171	OX20-8	check - no field tolerance, Rps 1a	0.25	0.5	99.5
172	Haro(1-7)1	check - minimal field tolerance, rps	1.75	3.5	96.5
Mean of Entries			26.12		
CV			40.02		

2022 Phytophthora Tolerance Test MG1 (2800)

Entry	Name	Final Stand	% Stand	% Loss
2	B119KE	23.25	46.5	53.5
3	B158DE	23.50	47.0	53.0
4	B182ME	33.50	67.0	33.0
5	B191FE	29.25	58.5	41.5
6	Baltazar	39.50	79.0	21.0
7	Barton	28.75	57.5	42.5
8	Candor	38.00	76.0	24.0
9	S13-Y4XF	34.25	68.5	31.5
12	Compass E3	15.50	31.0	69.0
13	DH530	8.50	17.0	83.0
14	DKB11-51	29.75	59.5	40.5
15	DKB14-65	25.00	50.0	50.0
16	DKB19-80	23.50	47.0	53.0
18	Eider	29.75	59.5	40.5
21	Forto	38.25	76.5	23.5
22	Havane	34.75	69.5	30.5
23	HDC Blake	10.50	21.0	79.0
24	Keith XF	37.00	74.0	26.0
25	Laurentian	24.25	48.5	51.5
27	Neo R2X	41.50	83.0	17.0
32	OAC Aberdeen	34.25	68.5	31.5
33	OAC Malory	38.75	77.5	22.5
34	Odessa	38.25	76.5	23.5
35	P11A10	26.00	52.0	48.0
36	P12T94E	26.00	52.0	48.0
38	P13A89X	37.75	75.5	24.5
40	P16A84X	30.75	61.5	38.5
41	P17A87E	38.75	77.5	22.5
42	P18A73E	27.75	55.5	44.5
43	P18A98X	treated seed*		
44	Pico R2X	27.50	55.0	45.0
45	Mya	20.00	40.0	60.0
46	Zeta	32.75	65.5	34.5
51	PS 1022 EN	39.50	79.0	21.0
52	PS 1338 XRN	18.75	37.5	62.5
53	PS 1421 EN	16.00	32.0	68.0
54	PS 1520 XRN	30.00	60.0	40.0
55	PS 1721 EN	26.25	52.5	47.5
56	Rondo R2X	38.00	76.0	24.0
58	S12-J7	37.25	74.5	25.5
59	S14-C7XF	39.25	78.5	21.5
60	S14-H3	15.50	31.0	69.0
61	S14-W6E3	23.25	46.5	53.5
62	S16-K2X	34.25	68.5	31.5

Entry	Name		Final Stand	% Stand	% Loss
63	Savard E3		19.50	39.0	61.0
68	OAC Union		35.00	70.0	30.0
69	Rask E3		31.25	62.5	37.5
73	SI 1520E3N		19.75	39.5	60.5
74	SI 1820XTN		37.50	75.0	25.0
75	Summit E3		20.00	40.0	60.0
76	SI 1222E3N		32.00	64.0	36.0
77	SI 1422XTN		17.00	34.0	66.0
78	Rowan		26.75	53.5	46.5
83	Alinova		23.25	46.5	53.5
86	Taku		33.00	66.0	34.0
89	Sloan	check - low field tolerance, rps	4.25	8.5	91.5
90	Conrad	check - high field tolerance, rps	24.00	48.0	52.0
91	Williams	check - moderate field tolerance, rps	27.25	54.5	45.5
92	OX20-8	check - no field tolerance, Rps 1a	0.00	0.0	100.0
93	Haro(1-7)1	check - minimal field tolerance, rps	1.00	2.0	98.0
Mean of Entries			27.88		
CV			40.92		

*entry had treated seed and was not included

2022 Phytophthora Tolerance Test MG2E (3100)

Entry	Name	Final Stand	% Stand	% Loss	
1	AAC 26-15	28.50	57.0	43.0	
2	AAC Big Ben	treated seed*			
3	AAC McRae	treated seed*			
4	AAC Wigle	14.25	28.5	71.5	
5	B205VE	30.00	60.0	40.0	
6	B251FE	32.00	64.0	36.0	
7	B253LE	37.00	74.0	26.0	
8	S25-G8E3	35.50	71.0	29.0	
9	Inwood	25.50	51.0	49.0	
11	DKB21-30XF	32.50	65.0	35.0	
12	DKB24-35	26.00	52.0	48.0	
13	DKB25-17XF	27.50	55.0	45.0	
14	DKB25-57	32.25	64.5	35.5	
16	S18-F1E3S	36.33	72.7	27.3	
21	Express R2X	33.25	66.5	33.5	
22	Hickstead	treated seed*			
24	OAC Bruton	32.25	64.5	35.5	
25	OAC Kent	30.25	60.5	39.5	
26	OAC Marvel	24.50	49.0	51.0	
30	P20A22X	33.33	66.7	33.3	
31	P21A20	32.25	64.5	35.5	
32	P21A28X	33.00	66.0	34.0	
33	P21A53E	35.00	70.0	30.0	
34	P23A40E	34.50	69.0	31.0	
35	P24A80X	29.25	58.5	41.5	
36	P25A68X	36.00	72.0	28.0	
37	P26A34X	32.25	64.5	35.5	
38	PS 2020 XRN	27.75	55.5	44.5	
39	PS 2120 EN	33.25	66.5	33.5	
40	PS 2322 XFN	32.25	64.5	35.5	
41	PS 2521 XFN	29.75	59.5	40.5	
42	Ranger R2X	23.25	46.5	53.5	
43	S20-L8X	25.25	50.5	49.5	
44	S22-A2E3	36.25	72.5	27.5	
45	S22-J4X	32.50	65.0	35.0	
46	S23-K7E3	30.00	60.0	40.0	
47	S26-E3	34.75	69.5	30.5	
53	OAC Stirling	29.25	58.5	41.5	
54	Raglan R2X	28.50	57.0	43.0	
55	Masters XF	21.00	42.0	58.0	
56	SG 2311	24.75	49.5	50.5	
57	SI 2121XTN	22.00	44.0	56.0	
62	SI 2322E3N	36.25	72.5	27.5	
69	Sloan	check - low field tolerance, rps	14.50	29.0	71.0

Entry	Name		Final Stand	% Stand	% Loss
70	Conrad	check - high field tolerance, rps	28.00	56.0	44.0
71	Williams	check - moderate field tolerance, rps	24.75	49.5	50.5
72	OX20-8	check - no field tolerance, Rps 1a	0.75	1.5	98.5
73	Haro(1-7)1	check - minimal field tolerance, rps	6.00	12.0	88.0
Mean of Entries			30.04		
CV			31.26		

*entry had treated seed and was not included

2022 Phytophthora Tolerance Test MG2L (3400)

Entry	Name		Final Stand	% Stand	% Loss
2	B301ME		40.00	80.0	20.0
3	DKB33-54		36.00	72.0	28.0
5	P25A16E		37.00	74.0	26.0
6	P28A65E		38.25	76.5	23.5
7	P29A19E		36.00	72.0	28.0
8	P29A25X		39.50	79.0	21.0
9	P31A95BX		38.50	77.0	23.0
10	P32T26E		39.50	79.0	21.0
11	PS 2720 EN		33.33	66.7	33.3
12	PS 2889XRN		29.25	58.5	41.5
13	S28-H4E3		37.00	74.0	26.0
14	S29-R5X		32.25	64.5	35.5
15	Darby E3		33.75	67.5	32.5
16	Sloan	check - low field tolerance, rps	11.00	22.0	78.0
17	Conrad	check - high field tolerance, rps	31.25	62.5	37.5
18	Williams	check - moderate field tolerance, rps	22.25	44.5	55.5
19	OX20-8	check - no field tolerance, Rps 1a	0.25	0.5	99.5
20	Haro(1-7)1	check - minimal field tolerance, rps	2.25	4.5	95.5
Mean of Entries			34.63		
CV			46.24		