

1999
Root Rot Trials

Dr. John Kraft
Research Plant Pathologist
USDA-ARS
Prosser, Washington

**1999 Root Rot Entries
Johns-Gerking Field
Athena, Oregon**

	Variety	Company	Treatment
1	PLS 8925	Pure Line	Apron 25
2	PLS 27	Pure Line	Apron 25
3	CMG 324 F	Crites-Moscow	Captan-Apron
4	PLS 168	Pure Line	Apron 25
5	CMG 330 F	Crites-Moscow	Captan-Apron
6	FR 664	Brotherton	Captan-Apron
7	Samish	Crites-Moscow	Captan-Apron
8	PLS 5P 45	Pure Line	Apron 25
9	Polar	Brotherton	Captan-Apron
10	FR 658	Brotherton	Captan-Apron
11	V-1	Brotherton	Apron-Combi
12	Venus	Smiths	Captan-Apron
13	FR 647	Brotherton	Captan-Apron
14	Bolero	Asgrow	Apron FL/Captan 400
15	Dual	Asgrow	Apron FL/Captan 400
16	99 K07-A6	Kraft	UTC (Untreated Check)
17	PLS 130	Pure Line	Apron 25
18	99 K07-A1	Kraft	Allegiance FL 2.65 FL .375 FL oz/cwt Curzate 50 DF 200 PPM AE Protégé 25 WP 75 PPM AE
19	PLS 105-1	Pure Line	Apron 25
20	99 K07 - A2	Kraft	Allegiance FL 2.65 FL .375 FL oz/cwt Curzate 50 DF 200 PPM AE Protégé 25 WP 75 PPM AE Kodiak Conc. 11 P .125 OZ wt/cwt
21	PLS 152 R	Pure Line	Apron 25
22	99 K07 - A3	Kraft	Allegiance FL 2.65 FL .375 / FL oz/cwt Protégé 25 WP 75 PPM AE Aliette WDG 80 WG 3 OZ wt/cwt
23	Genie	Rogers	Captan-Apron
24	99 K07 A-4	Kraft	Allegiance FL 2.65 FL .375 / FL oz/cwt Protégé 25 WP 75 PPM AE Aliette WDG 80 W 3 OZ wt/cwt Kodiak Conc. 11 P .125 wt/cwt
25	PLS 166	Pure Line	Apron 25
26	99 K07 A5	Kraft	Captan 400 4 FL 2.5 FL oz/cwt Allegiance FL 2.65 FL .375 FL oz/cwt
27	PLS 224 W	Pure Line	Apron 25
28	PLS 155	Pure Line	Apron 25
29	PLS 182	Pure Line	Apron 25
30	PLS 524	Pure Line	Apron 25
31	CMG 340 F	Crites-Moscow	Captan-Apron
32	PLS 192	Pure Line	Apron 25
33	PLS 56-1	Pure Line	Apron 25
34	98-2249	Kraft	Breeder
35	98-2075	Kraft	Breeder

1-20 Seeded 4/8/99

21-35 Seeded 4/12/99

Soil Temperature 50°

**1999 Root Rot Trials
Johns-Gerking Field, Athena, Oregon
Standard Seed Treatments**

Plot #	Variety	Stand Count ¹	Disease Index Tops ²	Dry Seed Yield ³
1	PLS 8925	56 ABCDEFghi	3.4 EFG	778.50 BCDE
2	PLS 27	55 BCDEFghij	4.2AB	434.38 G
3	CMG 324 F	53 EFGHIJK	3.8ABCDEF	725.27 CDEF
4	PLS 168	61 ABCD	3.3 FGH	776.62 BCDE
5	CMG 330 F	52 FGHIJKLM	4.0ABCD	487.88 FG
6	FR 664	45 LMNO	3.7 BCDEFG	579.32 DEFG
7	Samish	55 BCDEFghij	3.7 BCDEFG	817.58 ABCDEF
8	PLS SP 45	57 ABCDEFgh	3.7 BCDEFG	851.78 ABCD
9	Polar	62 ABC	3.9ABCDEF	732.63 CDEF
10	FR 658	61 ABCD	3.9ABCDEF	741.62 CDEF
11	V-1	62 ABC	4.2AB	551.58 EFG
12	Venus	50 IJKLMN	4.0ABCD	721.07 CDEF
13	FR 647	52 FGHIJKL	3.9ABCDEF	785.85 BCDE
14	Bolero	62 ABC	3.6 CDEFG	936.83 ABC
15	Dual	46 LMNO	3.5 DEFG	876.62 ABC
17	PLS 130	57 ABCDEFgh	4.0ABCD	733.87 CDEF
19	PLS 105-1	57 ABCDEFgh	3.7 BCDEFG	745.73 CDEF
21	PLS 152R	45 LMNO	3.7 BCDEFG	829.50 ABCD
23	Genie	52 FGHIJKLM	3.7 BCDEFG	846.33 ABCD
25	PLS 166	47 KLMNO	3.6 CDEFG	751.37 CDEF
27	PLS 224 W	44 NO	4.0ABCD	579.50 DEFG
28	PLS 155	58 ABCDEFgh	4.1ABC	731.78 CDEF
29	PLS 182	52 FGHIJKLM	3.7 BCDEFG	813.75 ABCDEF
30	PLS 524	60 ABCDE	3.6 CDEFG	935.78 ABC
31	CMG 340 F	48 JKLMNO	3.3 FGH	1,072.03A
32	PLS 192	60 ABCDE	3.9ABCDEF	696.73 CDEF
33	PLS 56-1	59 ABCDEF	4.3A	695.60 CDEF
34	98-2249	42 O	2.4 I	894.72 ABC
35	98-2075	43 NO	2.9 H	1,026.08 AB

¹ Number of plants counted in a 10' row.

² Tops rated on a 0-5 scale where 0 is no infection and 5 is severely infected or dead plants.

³ Seed yield from a 10' long plot.

1999 Root Rot Trials
Johns-Gerking Field
Athens, Oregon
Experimental Seed Treatments

Plot #	Variety	Stand Count ¹	Disease Index Tops ²	Dry Seed Yield ³	Root Disease Index ^{4*}
16	A6	60 ABCDE	3.8 ABCDEF	778.60 BCDE	4.7A
18	A1	61 ABCD	3.7 BCDEFG	745.03 CDEF	4.8A
20	A2	54 DEFGHIJK	3.7 BCDEFG	857.65 ABC	4.7A
22	A3	63 A	3.4 EFG	943.37 ABC	3.7 B
24	A4	59 ABCDEFGH	3.2 GH	817.50 ABCDE	3.4 B
26	A5	59 ABCDEFG	3.8 ABCDEF	744.98 CDEF	4.6A

4* The average of 20 plants dug from each rep and scored on a scale of 1 to 5

1 = no infection
5 = whole root infected.

Plot #	Seed Treatments Used
16	Untreated Check
18	Allegiance FL 2.65 FL .375 FL
	Curzate 50 DF 200 PPM
	Protege 25 WP 75 PPM
20	Allegiance FL 2.65 FL 375 FL OZ/CWT
	Curzate 50 DF 200 PPM AE
	Protege 25 WP 75 PPM AE
	Kodiak Conc. 11 P .125 Oz WT/CWT
22	Allegiance FL 2.65 FL 375 FL WT/CWT
	Protege 25WP 75 PPM AE
	Allette WDG 80 WG 3 OZ WT/CWT
24	Allegiance FL 2.65 FL 375 FL OZ/CWT
	Protege 25 WP 75 PPM AE
	Allette WDG 80 WG 3oz WT/CWT
	Kodiak Conc. 11 P .125 OZ WT/CWT
26	Captan 400 4 FL 2.5 FL OZ/CWT
	Allegiance FL 2.65 FL 0.375 FL OZ/CWT