

Standard Seed Treatment (2100 Series)

Location: Grand Forks, ND
Plot Design: 2 rows X 25 feet; 4 replications, RCBD.

Planting Date: June 4, 2004
Row Width: 36 inches
Plant Spacing: 12 inches

Cultivar: Red Norland

Fertilizer: 300 lb/a 32-10-10 at planting

Herbicide: Sencor/ Dual; pre-emergence
Prowl/ Matrix; post-emergence

Insecticide: Admire (18 oz/a) in-furrow at planting

Fungicide application dates: Bravo Zn / Quadris; July 21

Sampling: 5 plants / rep / date

30 days: stems/plant, stems with rhizoc, stems girdled,
stolons/plant, stolons with rhizoc, stolons girdled, vigor

90 days: stems/plant, stems with rhizoc, stem girdled, stolons/
plant, stolons with rhizoc, stolons girdled, vigor, # tubers, #
tubers > 3 oz.

Post harvest: yield, grade, rhizoctonia.

Evaluated: July 31

Seed Treatment -Series 2100 Grand Forks
Rhizoctonia Evaluation 57 Days After Planting

Treatment	Rate	Method	stand	stems per plant	stems with rhizoc	% stems rhizoc	seed decay (%)	vigor (1-4)
2101 Untreated			18.4	3.8	0.4	9.3	1.3	3.7
2102 Maxim 4FS	0.4 fl oz/cwt	Seed	18.6	3.9	0.3	9.1	0.0	3.7
2103 Maxim 4FS Amistar	0.4 fl oz/cwt 0.134 oz/1000 row ft	Seed In Furrow	19.0	4.6	0.4	10.1	2.9	3.7
2104 Moncoat MZ	12 oz/cwt	Seed	18.5	3.6	0.2	5.4	0.6	3.5
2105 Maxim 4FS Quadris	0.04 fl oz/cwt 0.413 fl oz/1000 row ft	Seed In Furrow	18.4	3.7	0.3	7.0	2.5	3.7
2106 MZ 6% Amistar Quadris Opti	16 oz/cwt 0.413 fl oz/1000 row ft 6 oz/a	Seed In-Furrow Second fungicide application	18.8	3.6	0.2	7.3	0.5	3.7
2107 MZ 6% Headline Headline	16 oz/cwt 0.413 fl oz/1000 row ft 6 oz/a	Seed In-Furrow Second fungicide application	18.9	4.0	0.4	9.4	1.9	3.6
2108 Tops MZ	12 oz/cwt	Seed	18.8	4.0	0.5	14.5	5.6	3.6
2109 Maxim MZ	8 oz/cwt	Seed	18.4	4.3	1.2	24.7	0.0	3.8
2110 Moncut	1.18 oz/1000row ft	In-Furrow	18.8	3.5	0.5	15.6	0.0	3.6
2111 Bio M	1 qt IF and 2 post	In-Furrow / 2 post	18.0	4.1	0.8	20.6	3.1	3.7
2112 Bio M	4 qt IF and 2 post	In-Furrow / 2 post	17.9	3.8	0.3	8.5	5.1	3.6
2113 Endoroots	85 lbs/a IF	In-Furrow	18.1	4.1	0.4	11.0	4.4	3.6
2114 Endoroots	170 lbs/a IF	In-Furrow	18.1	4.3	0.4	9.2	2.4	3.6
2115 Man...0257	16 oz/cwt	Seed	19.1	3.8	0.7	19.7	2.3	3.6
21160257 +	16 oz/cwt	Seed	19.1	3.6	0.6	18.1	0.5	3.7
2117 Manco +	16 oz/cwt	Seed	18.6	4.5	0.7	16.7	5.0	3.7
2118 Mancozeb	16 oz/cwt	Seed	18.6	4.3	0.2	4.6	2.9	3.6
LSD _{P=0.05}			NS	NS	0.4	10.2	NS	NS

Seed Treatment -Series 2100 Grand Forks
Yield and Silver Scurf Evaluation

Treatment	Rate	Method	Yield (cwt/a)	% Silver Scurf
2101 Untreated			101.2	56.9
2102 Maxim 4FS	0.4 fl oz/cwt	Seed	106.9	5.3
2103 Maxim 4FS Amistar	0.4 fl oz/cwt 0.134 oz/1000 row ft	Seed In Furrow	110.4	9.6
2104 Moncoat MZ	12 oz/cwt	Seed	105.4	10.9
2105 Maxim 4FS Quadris	0.04 fl oz/cwt 0.413 fl oz/1000 row ft	Seed In Furrow	119.1	6.7
2106 MZ 6% Amistar Quadris Opti	16 oz/cwt 0.413 fl oz/1000 row ft 6 oz/a	Seed In-Furrow Second fungicide application	119.1	11.1
2107 MZ 6% Headline Headline	16 oz/cwt 0.413 fl oz/1000 row ft 6 oz/a	Seed In-Furrow Second fungicide application	103.8	8.7
2108 Tops MZ	12 oz/cwt	Seed	90.0	4.2
2109 Maxim MZ	8 oz/cwt	Seed	104.9	9.4
2110 Moncut	1.18 oz/1000row ft	In-Furrow	101.3	45.6
2111 Bio M	1 qt IF and 2 post	In-Furrow / 2 post	85.5	59.2
2112 Bio M	4 qt IF and 2 post	In-Furrow / 2 post	89.8	50.0
2113 Endoroots	85 lbs/a IF	In-Furrow	102.0	42.0
2114 Endoroots	170 lbs/a IF	In-Furrow	97.2	50.1
2115 Man...0257	16 oz/cwt	Seed	113.2	12.4
21160257 +	16 oz/cwt	Seed	123.3	12.2
2117 Manco +	16 oz/cwt	Seed	120.4	16.4
2118 Mancozeb	16 oz/cwt	Seed	94.9	12.3
LSD _{P=0.05}			NS	6.9

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