

Seed Treatment / In-Furrow Fungicides – Russet Burbank (1000 Series)

Location: Wadikamper - Park Rapids, MN
Plot design: 2 rows X 35 feet X 4 replications; RCBD

Planting date: April 22, 2003
Row width: 36 inches
Seed spacing: 14 inches
Soil Temperature: 48F

Cultivar: Russet Burbank
Herbicide: Linex (2.5 pt/a) pre-emergence; May 16

Fertilizer: }
Insecticide: } Performed by cooperator as applicable for a commercial crop.
Fungicide : }

Data collection dates: Stand count: 6-11-03; 50 Days After Planting
Rhizoctonia evaluation: 6-11-03; 50 Days After Planting
Rhizoctonia evaluation: 7-29-03; 98 Days After Planting

Vinekill: Rotobeat and Reglone (2 pt/a); August 29

Harvest: September 2

Seed Treatment / In-Furrow Fungicides - Park Rapids Series 1000

Rhizoctonia Evaluations - 98 Days After Planting

Treatment	Rate	stems /plant	# stems w/ rhizoc	% stems w/ rhizoc	# stems girdled	% stems girdled	stolons /plant	# stolons w/ rhizoc	% stolons w/ rhizoc	# stolons girdled	% stolons girdled	vigor	tuber #	# tubers > 3 oz.
1001 Untreated	0	2.2	1.3	56.3	0.3	12.5	13.4	3.1	24.1	2.1	15.7	3.8	12.3	5.9
1002 Maxim 4 FS	0.04 fl oz product/cwt seed	2.2	1.4	59.7	0.4	15.2	13.0	3.9	30.0	2.1	16.5	3.8	11.8	6.3
1003 Maxim 4 FS	0.08 fl oz product/cwt seed	2.3	1.4	56.7	0.3	12.9	14.1	3.4	23.7	1.7	11.6	3.8	12.5	6.8
1004 Maxim 4 FS	0.04 oz product/cwt seed	2.4	1.6	61.3	0.4	13.3	14.1	3.4	24.6	2.1	15.0	3.9	12.7	5.7
Quadris 2.08 SC	6.0 oz product/a													
1005 Maxim 4 FS	0.08 oz product/cwt seed	2.1	1.2	60.0	0.2	10.0	12.8	3.1	24.6	1.2	8.4	3.8	11.8	6.0
Quadris 2.08 SC	6.0 oz product/a													
1006 A12534	8.0 oz product/cwt seed	2.7	1.2	44.2	0.3	11.3	15.9	3.8	25.0	2.2	15.0	4.0	13.8	5.7
1007 Moncoat MZ 7.5 DP	12.0 oz product/cwt seed	1.9	1.3	64.2	0.3	15.0	11.6	3.1	27.7	2.0	18.6	4.0	10.2	6.3
1008 Tops MZ 8.5 DS	12.0 oz product/cwt seed	2.0	1.1	53.3	0.1	4.2	12.6	2.4	17.9	1.2	8.7	3.9	11.7	5.9
1009 Quadris 2.08 SC	6.0 oz product/a	2.5	1.2	48.0	0.2	8.5	14.0	3.2	25.1	1.9	15.4	3.9	12.9	6.4
1010 Amistar 80 WG	1.8 oz product/a	2.4	1.3	50.0	0.2	5.8	13.7	1.5	10.5	0.6	3.9	3.9	12.3	6.9
LSD _{P=0.05}		NS	NS	NS	NS	NS	2.2	1.2	9.5	NS	NS	NS	NS	NS

Seed Treatment / In-Furrow Fungicides - Park Rapids Series 1000

Yield and USDA Grade

Treatment	Rate	Total Yield (cwt/a)	Market Yield (cwt/a)	10 oz. & over (%)			6 - 9 oz. (%)			>6 oz. (%)	2 in/4 oz (%)		Total Smalls (%)	Unusables (%)				Specific Gravity
				US No. 1	US No. 2	Total	US No. 1	US No. 2	Total	Total	US No. 1	US No. 2		Total	Undersize	Serious Hollow	Other	
1001 Untreated	0	582.2	528.3	30.4	4.1	34.5	32.5	2.5	35.0	69.4	19.6	1.7	21.3	9.3	7.4	0.0	1.8	1.085
1002 Maxim 4 FS	0.04 fl oz product / cwt seed	603.7	546.3	29.5	2.7	32.1	33.2	3.5	36.7	68.8	20.1	1.6	21.7	9.5	6.8	0.0	3.1	1.082
1003 Maxim 4 FS	0.08 fl oz product / cwt seed	569.8	509.2	26.6	2.1	28.7	34.7	1.8	36.5	65.2	22.5	1.7	24.2	10.6	9.1	0.0	1.5	1.083
1004 Maxim 4 FS	0.04 oz product / cwt seed	618.3	566.0	28.2	2.5	30.7	35.8	2.1	37.9	68.5	21.4	1.6	23.0	8.5	7.0	0.0	1.4	1.086
Quadris 2.08 SC	6.0 oz product/a																	
1005 Maxim 4 FS	0.08 oz product / cwt seed	605.5	541.0	28.3	3.3	31.6	30.8	2.6	33.4	65.0	22.3	2.1	24.4	10.7	8.3	0.0	2.4	1.085
Quadris 2.08 SC	6.0 oz product/a																	
1006 A12534	8.0 oz product / cwt seed	584.4	516.6	18.4	2.1	20.4	37.2	2.5	39.7	60.1	26.1	2.2	28.3	11.6	9.6	0.0	2.0	1.083
1007 Moncoat MZ 7.5 DP	12.0 oz product / cwt seed	620.9	574.4	28.5	2.9	31.3	35.5	2.3	37.8	69.1	22.4	1.0	23.4	7.5	6.4	0.0	1.1	1.085
1008 Tops MZ 8.5 DS	12.0 oz product / cwt seed	612.3	569.2	30.3	2.9	33.2	34.0	2.2	36.1	69.3	21.6	2.1	23.7	7.0	5.7	0.1	1.2	1.086
1009 Quadris 2.08 SC	6.0 oz product/a	609.0	551.8	29.8	2.5	32.3	33.8	2.7	36.4	68.7	19.9	2.0	21.9	9.4	7.2	0.0	2.2	1.085
1010 Amistar 80 WG	1.8 oz product/a	615.8	561.1	34.3	3.4	37.7	30.7	2.9	33.6	71.2	18.2	1.7	19.9	8.9	6.5	0.0	2.4	1.081
LSD _{P=0.05}		NS																

Seed Treatment / In-Furrow Fungicides - Park Rapids Series 1000

Market Analysis

Treatment	Rate	Market Yield (cwt/a)	Processor #1		Difference from Control (\$/a)	Processor #2		Difference from Control (\$/a)	Processor #3		Difference from Control (\$/a)
			\$/cwt	Gross \$/a		\$/cwt	Gross \$/a		\$/cwt	Gross \$/a	
1001 Untreated	0	528.3	5.79	3056.42		5.29	2794.89		5.54	2925.39	
1002 Maxim 4 FS	0.04 fl oz product/cwt seed	546.3	5.72	3121.97	65.55	5.27	2878.88	83.99	5.49	3000.15	74.76
1003 Maxim 4 FS	0.08 fl oz product/cwt seed	509.2	5.72	2910.31	-146.10	5.45	2775.37	-19.53	5.58	2842.59	-82.81
1004 Maxim 4 FS	0.04 oz product/cwt seed	566.0	5.81	3285.65	229.23	5.31	3005.48	210.58	5.56	3145.28	219.89
Quadris 2.08 SC	6.0 oz product/a										
1005 Maxim 4 FS	0.08 oz product/cwt seed	541.0	5.76	3113.54	57.12	5.45	2948.53	153.63	5.60	3030.76	105.37
Quadris 2.08 SC	6.0 oz product/a										
1006 A12534	8.0 oz product/cwt seed	516.6	5.61	2895.47	-160.95	5.25	2712.08	-82.81	5.43	2803.52	-121.87
1007 Moncoat MZ 7.5 DP	12.0 oz product/cwt seed	574.4	5.79	3322.74	266.32	5.31	3049.91	255.02	5.55	3186.04	260.65
1008 Tops MZ 8.5 DS	12.0 oz product/cwt seed	569.2	5.83	3315.64	259.22	5.31	3022.50	227.61	5.57	3168.79	243.39
1009 Quadris 2.08 SC	6.0 oz product/a	551.8	5.78	3186.73	130.31	5.29	2919.10	124.21	5.53	3052.64	127.25
1010 Amistar 80 WG	1.8 oz product/a	561.1	5.74	3218.10	161.68	5.21	2923.50	128.61	5.47	3070.52	145.13