

Standard Seed Treatment (2700 Series)

Location: Inkster, ND
Plot design: 2 rows X 30 ft. X 4 reps; RCBD
Planting date: May 19, 2010

Row width: 36 inches
Plant spacing: 14 inches
Cultivar: Russet Burbank
50% Emergence: June 9

Fertilizer: Broadcast: 61#N, 200#K, 30#S; April 27
Starter: 29#N, 100#P; May 19
Sidedress: 70#N; June 2
Fertigation: 20#N; July 7, 16, 29

Herbicide: Prowl (2.0 pt/a) + Matrix (1.0 oz/a) + Sencor (0.5 lb/a); June 2
Insecticide: Admire Pro (8.7 oz/a) + Ultra Flourish (12.2 oz/a);
in furrow at planting
Kaiso (2 oz/a); August 6

Fungicide application dates: June 24 Manzate (2.0 lb/a)
June 29 Bravo Zn (2.125 pt/a)
July 7 Headline (9.0 oz/a) + Manzate (2.0 lb/a)
July 16 Gavel (2.0 lb/a)
July 21 Revus Top (7.0 oz/a)
July 28 Gavel (2.0 lb/a)
August 3 Revus Top (7.0 oz/a)
August 11 Gavel (2.0 lb/a) + Tanos (8.0 oz/a)
August 18 Revus Top (7.0 oz/a) + Curzate (3.2 oz/a)
August 25 Gavel (2.0 lb/a) + Tanos (8.0 oz/a)
September 1 Revus Top (7.0 oz/a)
September 8 Gavel (2.0 lb/a)

Rhizoctonia evaluation dates: July 1; 43 days after planting
August 5: 78 days after planting

Vine Kill: Reglone (2 pt/a) + Ad-Wet 90 Plus (1 pt/100 gal); September 14
Rotobeat; September 30

Harvest: October 11, 13

Grade: Commercial grade by Ag World Support Systems

2010 Standard Seed Treatment - Inkster Series 2700

Treatments 2702 - 2706 and 2715 - 2717 are confidential.

Treatment	Rate	Application	Emergence (%)			
			6/16	6/18	6/22	6/25
2701 Non-treated	-	-	94.5	96.5	95.5	93.5
2707 Maxim 4FS ActinoGrow	0.08 fl oz / cwt 4.0 oz / a	Seed In-Furrow	96.0	97.0	98.5	97.0
2708 Maxim 4FS ActinoGrow	0.08 fl oz / cwt 8.0 oz / a	Seed In-Furrow	94.0	96.5	97.0	97.0
2709 Maxim 4FS ActinoGrow	0.08 fl oz / cwt 12.0 oz / a	Seed In-Furrow	93.5	96.0	97.5	97.5
2710 Maxim 4FS Tenet	0.08 fl oz / cwt 6.8 oz / a	Seed In-Furrow	96.5	96.0	97.0	96.0
2711 Serenade ASO	2.0 qt / a	In-Furrow	90.0	90.0	91.5	92.5
2712 Serenade ASO	4.0 qt / a	In-Furrow	89.5	94.5	95.5	93.5
2713 Serenade ASO	6.0 qt / a	In-Furrow	93.0	93.5	95.0	91.5
2714 Cruiser 5FS	0.128 fl oz / cwt	Seed	92.5	93.5	93.0	91.0
2718 Maxim 4FS + Admire Pro	0.08 fl oz / cwt + 0.35 fl oz / cwt	Seed	93.5	96.0	98.0	97.0
2719 Nubark Gold	1.0 lb / cwt	Seed	93.5	92.5	94.0	96.0
2720 Nubark Mancozeb 6%	1.0 lb / cwt	Seed	93.0	96.0	97.5	95.0
2721 Nubark Mancozeb AS	1.0 lb / cwt	Seed	96.0	95.0	97.0	96.5
2722 Maxim 4FS Nubark Gold	0.08 fl oz / cwt 1.0 lb / cwt	Seed Seed	95.0	96.0	96.5	96.5
2723 Maxim 4FS + WE Germinate Nubark Gold	0.08 fl oz / cwt + 0.2 oz / cwt 1.0 lb / cwt	Seed Seed Seed	97.0	96.0	99.0	98.0
2724 Evito	3.8 fl oz / a	In-Furrow	97.5	97.0	97.5	97.5
2725 Maxim 4FS Quadris	0.08 fl oz / cwt 0.6 fl oz / 1000 row ft	Seed In-Furrow	98.5	98.0	98.5	98.0
2726 Quadris	0.6 fl oz / 1000 row ft	In-Furrow	93.5	96.0	96.0	96.0
2727 Maxim 4FS	0.08 fl oz / cwt	Seed	92.0	93.5	95.5	92.5
2728 Alder Bark	16.0 oz / cwt	Seed	92.5	95.5	93.5	90.5
2729 Tops MZ	0.75 lb / cwt	Seed	96.0	96.5	95.5	93.5
2730 Moncoat MZ	0.75 lb / cwt	Seed	94.5	96.5	99.0	95.5
2731 Moncut 70DF	17.0 oz / a	In-Furrow	95.0	95.5	96.5	93.5
2732 6% Mancozeb	1.0 lb / cwt	Seed	96.0	97.5	96.5	98.0
LSD _{P=0.05}			4.9	4.1	3.7	3.9

2010 Standard Seed Treatment - Inkster Series 2700 Rhizoctonia Evaluation - 43 DAP

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Treatment	Rate	Application	% stems w rhizoc	% stems girdled	% stolons w rhizoc	% stolons girdled	vigor	% seed piece decay
2701 Non-treated	-	-	57.8	33.3	26.0	13.9	1.7	50.8
2707 Maxim 4FS ActinoGrow	0.08 fl oz / cwt 4.0 oz / a	Seed In-Furrow	36.3	11.3	21.4	6.2	2.9	7.3
2708 Maxim 4FS ActinoGrow	0.08 fl oz / cwt 8.0 oz / a	Seed In-Furrow	25.4	0.0	8.0	0.5	2.7	12.5
2709 Maxim 4FS ActinoGrow	0.08 fl oz / cwt 12.0 oz / a	Seed In-Furrow	17.0	0.0	7.3	1.5	2.6	13.8
2710 Maxim 4FS Tenet	0.08 floz / cwt 6.8 oz / a	Seed In-Furrow	36.3	2.5	20.7	1.5	2.8	7.8
2711 Serenade ASO	2.0 qt / a	In-Furrow	95.8	70.3	62.2	47.4	1.8	46.8
2712 Serenade ASO	4.0 qt / a	In-Furrow	88.6	72.8	47.8	28.4	1.9	67.0
2713 Serenade ASO	6.0 qt / a	In-Furrow	87.1	63.8	40.9	24.9	2.2	52.3
2714 Cruiser 5FS	0.128 fl oz / cwt	Seed	81.4	61.8	37.6	20.0	1.8	64.3
2718 Maxim 4FS + Admire Pro	0.08 fl oz / cwt + 0.35 fl oz / cwt	Seed	26.4	5.0	11.4	5.0	2.7	4.3
2719 Nubark Gold	1.0 lb / cwt	Seed	64.6	25.4	37.0	19.4	2.5	23.0
2720 Nubark Mancozeb 6%	1.0 lb / cwt	Seed	80.0	47.1	40.6	24.0	2.3	22.0
2721 Nubark Mancozeb AS	1.0 lb / cwt	Seed	42.0	14.5	21.3	7.5	2.3	17.3
2722 Maxim 4FS Nubark Gold	0.08 fl oz / cwt 1.0 lb / cwt	Seed Seed	28.3	6.3	7.4	2.3	2.9	1.8
2723 Maxim 4FS + WE Germinate Nubark Gold	0.08 fl oz / cwt + 0.2 oz / cwt 1.0 lb / cwt	Seed Seed Seed	41.4 57.9	3.3 34.4	14.7 26.3	1.2 16.7	3.0 2.3	7.5 7.8
2724 Evito	3.8 fl oz / a	In-Furrow						
2725 Maxim 4FS Quadris	0.08 fl oz / cwt 0.6 fl oz / 1000 row ft	Seed In-Furrow	19.2	0.0	9.5	0.3	2.9	8.0
2726 Quadris	0.6 fl oz / 1000 row ft	In-Furrow	68.3	23.9	32.6	18.0	2.3	15.0
2727 Maxim 4FS	0.08 fl oz / cwt	Seed	10.3	0.0	6.3	0.0	2.9	2.0
2728 Alder Bark	16.0 oz / cwt	Seed	79.6	46.8	41.1	26.5	2.0	48.0
2729 Tops MZ	0.75 lb / cwt	Seed	56.6	33.7	24.1	7.6	2.3	26.8
2730 Moncoat MZ	0.75 lb / cwt	Seed	22.2	0.0	12.7	2.0	3.0	7.5
2731 Moncut 70DF	17.0 oz / a	In-Furrow	70.8	47.8	36.0	24.8	2.2	40.0
2732 6% Mancozeb	1.0 lb / cwt	Seed	67.3	16.5	33.7	17.3	2.4	7.5
LSD _{P=0.05}			21.1	18.8	14.0	11.1	0.4	19.3

2010 Standard Seed Treatment - Inkster Series 2700 Rhizoctonia Evaluation - 78 DAP

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Treatment	Rate	Application	% stems w rhizoc	% stems girdled	% stolons w rhizoc	% stolons girdled	vigor	% tubers > 3 oz
2701 Non-treated	-	-	95.0	57.4	41.5	23.8	3.4	57.1
2707 Maxim 4FS	0.08 fl oz / cwt	Seed	34.7	2.9	10.6	2.6	3.6	45.0
ActinoGrow	4.0 oz / a	In-Furrow						
2708 Maxim 4FS	0.08 fl oz / cwt	Seed	30.2	0.0	13.0	0.4	3.3	50.7
ActinoGrow	8.0 oz / a	In-Furrow						
2709 Maxim 4FS	0.08 fl oz / cwt	Seed	28.8	0.0	8.4	0.0	3.1	44.2
ActinoGrow	12.0 oz / a	In-Furrow						
2710 Maxim 4FS	0.08 floz / cwt	Seed	23.6	0.0	11.0	1.1	3.3	47.4
Tenet	6.8 oz / a	In-Furrow						
2711 Serenade ASO	2.0 qt / a	In-Furrow	94.1	58.1	36.8	16.2	3.4	43.9
2712 Serenade ASO	4.0 qt / a	In-Furrow	88.3	31.4	33.8	12.7	3.6	48.9
2713 Serenade ASO	6.0 qt / a	In-Furrow	87.5	55.5	32.6	10.5	3.2	40.2
2714 Cruiser 5FS	0.128 fl oz / cwt	Seed	92.5	67.1	26.9	11.5	3.1	47.0
2718 Maxim 4FS + Admire Pro	0.08 fl oz / cwt + 0.35 fl oz / cwt	Seed	33.8	2.5	15.8	1.2	3.4	45.3
2719 Nubark Gold	1.0 lb / cwt	Seed	77.8	33.8	24.2	9.1	3.5	61.7
2720 Nubark Mancozeb 6%	1.0 lb / cwt	Seed	79.9	33.8	27.9	10.4	3.4	55.6
2721 Nubark Mancozeb AS	1.0 lb / cwt	Seed	64.1	14.3	18.4	1.9	3.2	57.3
2722 Maxim 4FS	0.08 fl oz / cwt	Seed	50.1	3.3	14.7	0.3	3.6	42.1
Nubark Gold	1.0 lb / cwt	Seed						
2723 Maxim 4FS + WE Germinate	0.08 fl oz / cwt + 0.2 oz / cwt	Seed Seed	20.7	1.3	13.9	1.8	3.5	48.6
Nubark Gold	1.0 lb / cwt	Seed	74.7	26.7	26.6	10.8	3.7	53.2
2724 Evito	3.8 fl oz / a	In-Furrow						
2725 Maxim 4FS	0.08 fl oz / cwt	Seed	21.5	2.0	8.1	2.0	3.4	43.9
Quadris	0.6 fl oz / 1000 row ft	In-Furrow						
2726 Quadris	0.6 fl oz / 1000 row ft	In-Furrow	73.2	18.8	38.3	15.1	3.5	53.8
2727 Maxim 4FS	0.08 fl oz / cwt	Seed	36.4	4.6	6.8	1.3	3.4	56.0
2728 Alder Bark	16.0 oz / cwt	Seed	90.3	64.3	47.7	23.8	3.4	52.9
2729 Tops MZ	0.75 lb / cwt	Seed	75.4	51.3	35.5	14.4	3.3	48.1
2730 Moncoat MZ	0.75 lb / cwt	Seed	41.3	0.0	9.5	0.0	3.1	46.1
2731 Moncut 70DF	17.0 oz / a	In-Furrow	74.7	37.8	27.1	14.2	3.7	53.7
2732 6% Mancozeb	1.0 lb / cwt	Seed	73.9	39.6	27.5	7.6	3.3	50.5
LSD _{P=0.05}			18.2	20.0	11.1	7.8	NS	NS

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Treatment	Rate	Application	Total Yield (cwt/a)	Unusable (cwt/a)	Undersize <4 oz (cwt/a)	4-6 oz (cwt/a)	6-10 oz (cwt/a)	10 oz + (cwt/a)	Unusable (%)	Undersize <4 oz (%)	Market Yield (cwt/a)	>6 oz (%)	>10 oz (%)
2701 Non-treated	-	-	491.9	22.1	41.2	81.7	162.8	184.1	4.5	8.4	428.6	70.5	37.4
2707 Maxim 4FS	0.08 fl oz / cwt	Seed	526.9	17.9	93.8	127.8	194.6	92.9	3.4	17.8	415.3	54.6	17.6
ActinoGrow	4.0 oz / a	In-Furrow											
2708 Maxim 4FS	0.08 fl oz / cwt	Seed	478.6	20.8	83.9	116.2	167.7	90.0	4.3	17.5	373.9	53.9	18.8
ActinoGrow	8.0 oz / a	In-Furrow											
2709 Maxim 4FS	0.08 fl oz / cwt	Seed	483.4	41.8	84.8	117.6	175.7	63.5	8.7	17.5	356.8	49.5	13.1
ActinoGrow	12.0 oz / a	In-Furrow											
2710 Maxim 4FS	0.08 floz / cwt	Seed	538.6	42.5	81.6	129.2	202.4	82.8	7.9	15.2	414.4	53.0	15.4
Tenet	6.8 oz / a	In-Furrow											
2711 Seranade ASO	2.0 qt / a	In-Furrow	452.0	47.2	52.3	81.3	169.7	101.5	10.4	11.6	352.5	60.0	22.5
2712 Seranade ASO	4.0 qt / a	In-Furrow	409.0	37.2	46.6	74.8	137.2	113.3	9.1	11.4	325.3	61.2	27.7
2713 Seranade ASO	6.0 qt / a	In-Furrow	462.3	54.6	49.7	84.2	147.4	126.2	11.8	10.7	357.8	59.2	27.3
2714 Cruiser 5FS	0.128 fl oz / cwt	Seed	480.8	47.6	53.6	91.0	162.8	125.7	9.9	11.1	379.6	60.0	26.2
2718 Maxim 4FS +	0.08 fl oz / cwt +	Seed	446.8	41.7	62.7	91.5	176.3	74.6	9.3	14.0	342.4	56.2	16.7
Admire Pro	0.35 fl oz / cwt												
2719 Nubark Gold	1.0 lb / cwt	Seed	595.6	46.9	73.9	120.5	184.4	169.9	7.9	12.4	474.8	59.5	28.5
2720 Nubark Mancozeb 6%	1.0 lb / cwt	Seed	459.0	53.0	46.2	84.4	154.3	121.1	11.5	10.1	359.8	60.0	26.4
2721 Nubark Mancozeb AS	1.0 lb / cwt	Seed	482.5	55.0	79.9	95.1	165.5	87.0	11.4	16.6	347.6	52.3	18.0
2722 Maxim 4FS	0.08 fl oz / cwt	Seed	447.5	30.3	74.1	106.7	163.8	72.6	6.8	16.5	343.1	52.8	16.2
Nubark Gold	1.0 lb / cwt	Seed											
2723 Maxim 4FS +	0.08 fl oz / cwt +	Seed	634.5	48.4	106.4	196.0	197.6	86.1	7.6	16.8	479.7	44.7	13.6
WE Germinate	0.2 oz / cwt	Seed											
Nubark Gold	1.0 lb / cwt	Seed											
2724 Evito	3.8 fl oz / a	In-Furrow	532.3	55.9	69.3	92.9	167.7	146.7	10.5	13.0	407.3	59.1	27.6
2725 Maxim 4FS	0.08 fl oz / cwt	Seed	386.4	23.7	93.9	91.5	139.5	37.8	6.1	24.3	268.8	45.9	9.8
Quadris	0.6 fl oz / 1000 row ft	In-Furrow											
2726 Quadris	0.6 fl oz / 1000 row ft	In-Furrow	422.0	16.6	62.3	98.9	152.8	91.5	3.9	14.8	343.1	57.9	21.7
2727 Maxim 4FS	0.08 fl oz / cwt	Seed	492.7	24.5	54.6	121.2	184.8	107.4	5.0	11.1	413.5	59.3	21.8
2728 Alder Bark	16.0 oz / cwt	Seed	432.7	17.0	40.4	102.9	149.6	122.8	3.9	9.3	375.3	63.0	28.4
2729 Tops MZ	0.75 lb / cwt	Seed	499.2	54.6	34.7	85.7	160.2	164.1	10.9	7.0	409.9	65.0	32.9
2730 Moncoat MZ	0.75 lb / cwt	Seed	570.3	26.0	60.0	172.8	207.2	104.5	4.6	10.5	484.5	54.7	18.3
2731 Moncut 70DF	17.0 oz / a	In-Furrow	502.3	35.3	45.0	82.8	162.9	176.3	7.0	9.0	422.0	67.5	35.1
2732 6% Mancozeb	1.0 lb / cwt	Seed	399.6	13.5	31.4	77.0	147.1	130.7	3.4	7.8	354.7	69.5	32.7

Grade performed by Ag World Support Systems, Grand Forks, ND on October 28, 2010
 NDSU wishes to thank J.R. Simplot, Grand Forks, ND for their cooperation.