

Seed Treatment Fungicides (2700 Series)

Location: Tappen, ND
Plot design: 2 rows X 30 ft. X 4 reps; RCBD

Planting date: May 15, 2006
Row width: 36 inches
Plant spacing: 14 inches

Cultivar: Russet Burbank

Fertilizer: Pre-plant Incorporated: 21#N, 95#P, 206#K, 40#S;
Banded Starter: 44#N, 151#P;
Sidedress: 85#N; May 31
Fertigation: 40#N; July 13
14#N; July 21
20#N; August 3

Herbicide: Prowl H₂O (2.0 pt/a) + Matrix (1.5 oz / a); June 1

Insecticide: Admire Pro In-Furrow (8.0 oz/a)
Asana (6.0 oz/a); July 12, 21, August 9

Fungicide application dates:

June 22	Dithane (2.0 lb/a)
June 28	Bravo Zn (2.125 pt/a) + Tanos (6.0 oz/a)
July 5	Bravo Zn
July 12	Dithane (2.0 lb/a) + Endura (3.0 oz/a)
July 19	Bravo Zn
July 27	Manzate (1.5 lb/a) + Tanos (6.0 oz/a)
August 1	Echo Zn (2.125 pt/a)
August 9	Mazate (2 lb/a)
August 16	Echo 720 (1.5 pt/a)
August 23	Dithane (2 lb/a)
August 31	Echo Zn

Vinekill: Reglone (2 pt/a) + LI700; September 6
Rotobeat; September 27

Harvest: October 5

Grade: November 8 - 15

Seed Treatment Fungicides - Tappen Series 2700

Treatment	Rate	Vigor	Decay	Number of Stems	Stems w/ Rhizoc	% Stems w/ Rhizoc	Number of Stolons	Stolons w/ Rhizoc	% Stolons w/ Rhizoc
2701 Untreated		3.6	78.5	3.6	1.2	36.7	15.9	3.3	23.3
2702 Weco mz	1.0 lb/cwt	3.7	64.7	3.0	0.5	15.8	14.7	1.0	8.1
2703 Weco mz + Weco 0250	1.0 lb/cwt	3.7	62.3	3.1	0.4	12.2	14.7	0.4	2.5
2704 Weco mz + Weco 5006	1.0 lb/cwt + 3.2 oz/a	3.7	59.0	3.3	1.0	38.2	15.9	2.4	17.4
2705 (Weco mz + Weco 0250) + Weco 5006	1.0 lb/cwt + 3.2 oz/a	3.8	73.5	2.4	0.4	13.7	13.5	0.9	6.8
2706 Maxim 4 FS	0.08 fl oz/cwt	3.8	45.3	3.4	1.2	33.2	14.5	2.0	15.5
2707 Confidential		3.7	60.3	3.3	0.7	27.2	16.5	1.4	12.3
2708 Confidential		3.7	64.2	2.7	0.5	29.7	13.7	1.8	16.5
2709 Confidential		3.7	86.8	3.6	1.0	26.7	15.0	2.1	13.0
2710 Confidential		3.8	79.7	2.5	0.6	23.1	13.3	1.2	11.5
2711 Confidential		3.5	68.5	2.6	0.5	17.5	11.7	1.0	8.8
2712 Confidential		3.8	68.9	2.7	0.1	3.9	12.9	0.3	2.4
2713 Confidential		3.7	57.2	2.7	0.8	30.3	12.2	1.2	12.4
2714 Confidential		3.5	64.2	2.4	0.7	26.1	12.8	1.1	9.5
2715 Heads Up	1 g/l	3.7	74.5	2.7	1.5	46.2	15.7	2.7	19.1
2716 Heads Up	1 g/l + 1 g/l	3.8	56.2	2.8	0.9	31.7	12.6	1.3	12.2
2717 Evito	3.8 fl oz/a	3.7	73.8	3.2	0.6	18.6	16.6	1.0	5.7
2718 Evito	1.9 fl oz/a	3.8	68.0	3.2	0.4	11.3	14.3	1.1	7.4
2719 LI 6188	0.3 fl oz/cwt	3.7	82.7	2.4	0.3	20.0	12.9	0.5	5.4
2720 LI 6188	0.4 fl oz/cwt	3.6	76.8	2.8	0.6	18.6	13.7	1.3	7.0
2721 LI 6188	0.5 fl oz/cwt	3.8	54.2	3.0	0.4	11.9	14.8	1.0	6.1
2722 LI 6188 + mz 6%	0.3 fl oz/cwt + 0.75 lb/cwt	3.7	92.5	2.4	0.8	26.9	14.7	0.6	4.1
2723 LI 6188 + mz 6%	0.4 fl oz/cwt + 0.75 lb/cwt	3.5	94.8	3.3	0.9	26.6	14.3	1.9	12.1
2724 LI 6188 + mz 6%	0.5 fl oz/cwt + 0.75 lb/cwt	3.4	94.7	2.4	0.6	20.8	10.2	0.9	11.1
2725 Maxim mz	0.5 lb/cwt	3.6	83.7	3.3	1.0	31.6	13.3	1.0	8.6
2726 Tops mz	0.75 lb/cwt	3.7	56.3	3.0	1.3	45.2	13.3	3.5	28.8
2727 Moncoat mz	0.75 lb/cwt	3.6	76.8	3.1	0.3	9.6	16.9	0.2	1.1
2728 PST Plus (6% mz)	1.0 lb/cwt	3.6	93.7	3.1	1.2	34.7	15.6	2.8	17.6
2729 Quadris	6.2 fl oz/a	3.8	60.0	3.3	0.5	20.4	16.9	1.0	7.3
2730 Moncut 70 DF	14.5 oz/a	4.0	75.0	3.3	0.6	18.7	15.2	0.6	6.2
LSD _{P=0.05}		NS	20.3	0.6	0.5	17.3	3.0	1.3	9.7

Seed Treatment Fungicides - Tappen Series 2700

Treatment	Rate	% Emergence	% Stunted Plants	Total Yield (cwt/a)	<17/8 (%)	>31/2 (%)	Market Yield (cwt/a)	Rhizoc (%) 63 DAH	Tuber Blemish (%) 63 DAH
2701 Untreated		95.0	5.8	427.4	7.2	0.0	396.4	0.5	8.9
2702 Weco mz	1.0 lb/cwt	93.5	10.0	458.2	7.4	0.7	421.2	0.5	5.6
2703 Weco mz + Weco 0250	1.0 lb/cwt	91.5	4.6	421.6	7.7	0.0	389.3	0.2	5.4
2704 Weco mz + Weco 5006	1.0 lb/cwt + 3.2 oz/a	90.5	11.3	402.9	9.6	0.0	363.5	0.7	11.6
2705 (Weco mz + Weco 0250) + Weco 5006	1.0 lb/cwt + 3.2 oz/a	92.5	4.4	388.8	7.2	0.3	360.0	0.3	7.2
2706 Maxim 4 FS	0.08 fl oz/cwt	88.5	8.2	424.5	5.6	0.5	398.7	0.3	6.7
2707 Confidential		91.0	13.4	455.2	5.9	0.0	428.1	0.5	13.6
2708 Confidential		94.5	4.7	477.2	7.6	0.0	441.9	0.2	3.3
2709 Confidential		95.0	5.8	442.5	7.7	0.3	407.5	0.1	15.4
2710 Confidential		92.0	12.7	463.5	4.6	0.0	442.3	0.5	11.5
2711 Confidential		89.0	8.5	462.1	5.5	0.8	433.3	0.4	11.8
2712 Confidential		93.0	3.4	424.1	8.4	0.0	388.3	0.5	14.5
2713 Confidential		92.0	23.0	439.0	5.6	0.6	415.6	0.9	14.4
2714 Confidential		92.5	68.8	392.1	7.8	0.0	361.5	0.3	17.0
2715 Heads Up	1 g/l	92.0	13.9	430.7	6.5	0.0	403.0	0.5	8.1
2716 Heads Up	1 g/l + 1 g/l	92.5	17.3	445.7	6.6	0.0	416.5	0.8	16.8
2717 Evito	3.8 fl oz/a	95.0	8.6	430.1	8.2	0.0	395.5	0.2	11.7
2718 Evito	1.9 fl oz/a	91.0	2.2	411.7	5.8	0.0	387.6	0.7	5.1
2719 LI 6188	0.3 fl oz/cwt	92.0	7.3	429.6	6.7	0.0	401.1	0.3	7.3
2720 LI 6188	0.4 fl oz/cwt	95.0	15.5	373.5	7.5	0.0	346.1	0.4	11.6
2721 LI 6188	0.5 fl oz/cwt	94.0	5.9	474.6	6.8	0.0	442.2	0.3	10.5
2722 LI 6188 + mz 6%	0.3 fl oz/cwt + 0.75 lb/cwt	83.5	16.3	385.9	4.8	0.0	368.3	0.4	10.8
2723 LI 6188 + mz 6%	0.4 fl oz/cwt + 0.75 lb/cwt	91.5	8.5	391.5	6.6	0.0	366.5	0.2	15.3
2724 LI 6188 + mz 6%	0.5 fl oz/cwt + 0.75 lb/cwt	89.0	21.4	357.0	7.0	0.0	331.8	0.5	14.6
2725 Maxim mz	0.5 lb/cwt	89.5	10.8	427.6	9.5	0.0	387.0	0.3	7.2
2726 Tops mz	0.75 lb/cwt	92.0	13.7	401.4	5.7	0.0	378.6	0.7	11.6
2727 Moncoat mz	0.75 lb/cwt	92.0	6.2	446.0	5.1	0.6	420.5	0.3	16.1
2728 PST Plus (6% mz)	1.0 lb/cwt	90.0	6.5	446.0	6.5	0.0	417.1	0.4	9.3
2729 Quadris	6.2 fl oz/a	88.0	9.8	440.7	8.8	0.0	403.2	0.4	14.5
2730 Moncut 70 DF	14.5 oz/a	95.0	11.2	440.8	6.9	1.0	406.6	0.3	7.9
LSD _{P=0.05}		5.8	9.9	61.9	2.9	NS	62.8	0.2	2.2