

## 2015 Standard Seed Treatment (2700 Series)

**Location:** Inkster, ND  
**Plot design:** 2 rows X 30 ft. X 4 reps; RCBD  
**Planting date:** June 9, 2015  
**Row width:** 36 inches  
**Plant spacing:** 14 inches  
**Cultivar:** Russet Burbank  
**Fertilizer:** Broadcast: 67#N, 124#K, 30#S, 1.5#Zn, 2#B, 1#Cu; May 22  
Starter: 29#N, 100#P; June 9  
Sidedress: 70#N; June 23  
Fertigation: 30#N; August 3, 12  
**Herbicide:** Prowl (2 pts/a) + Sencor (0.5 lb/a) + Matrix (1.5 oz/a); June 23  
**Insecticide:** Admire Pro (8.7 oz/a); IF at plant  
Coragen (5 oz/a); July 9  
Asana (9.6 oz/a); July 27  
Coragen (5 oz/a); August 4  
Asana (9.6 oz/a); August 11  
Blackhawk (3.3 oz/a); August 17  
**In-furrow appl. method:** In-furrow treatments applied using a planter-mounted CO<sub>2</sub> sprayer with single nozzle directed at seed piece (6501 tips, 8 GPA).  
**Fungicide application dates:**  
July 9 Echo Zn (2.125 pt/a)  
July 15 Headline (9 oz/a) + Manzate (2 lbs/a)  
July 21 Echo Zn (2.125 pt/a)  
July 27 Manzate (2 lbs/a)  
August 4 Echo Zn (2.125 pt/a)  
August 11 Manzate (2 lbs/a)  
August 17 Scala (7 oz/a) + Manzate (2 lbs/a)  
August 25 Echo Zn (2.125 pt/a)  
Sept. 1 Manzate (2 lbs/a)  
**Vinekill:** Killing frost; October 7  
**Harvest:** October 21  
**Grade:** October 27 - 31  
**Post-harvest tuber evaluation:** December 17 (61 DAH)  
**Stand:** Number emerged of 25 planted: July 1, July 7, July 15 (22, 28, 36 DAP)  
**Data:** Field ratings: July 28 - 29 (49 - 50 DAP)  
**Vigor:** 1-4; 1 = low, 4 = high  
**% Decay:** Percent decay of seed piece; 0 = no decay, 100 = complete decay  
**% Stems with Rhizoctonia:** % of stems with visible lesions due to Rhizoctonia  
**% Stems girdled:** % of stems girdled with Rhizoctonia  
**% Stolons with Rhizoctonia:** % of stolons with visible lesions due to Rhizoctonia  
**% Stolons girdled:** % of stolons girdled with Rhizoctonia  
**Yield:** total yield in hundredweight (cwt)  
**Grade:** Commercial grade by Ag World Support Systems, Grand Forks, ND  
**Post-harvest tuber evaluation:** 25 tuber sample from each treatment of each rep rated for % rhizoc of tuber surface.

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Treatment		Rate	Schedule	% Stand		
				1-Jul	7-Jul	15-Jul
2701	Non-treated	-	-	22.4	89.5	91.0
2702	WE 1042-2	1.0 lb / cwt	Seed	22.9	91.5	96.0
2703	WE 1043-1	1.0 lb / cwt	Seed	23.0	92.0	96.0
2704	Maxim 4FS	0.08 fl oz / cwt	Seed	23.3	93.0	96.0
2705	6% Mancozeb	1 lb /cwt	Seed	23.8	95.0	95.0
2706	Maxim 4FS + WE 1042-2	0.08 fl oz / cwt + 1.0 lb / cwt	Seed	23.3	93.0	90.0
2707	Eresto Silver + WE 1042-2	0.31 fl oz / cwt + 1.0 lb / cwt	Seed	23.1	92.5	94.5
2708	Actinovate AG + Maxim 4FS + WE 1042-2	0.15 oz / cwt + 0.08 fl oz / cwt + 1.0 lb / cwt	Seed	20.6	82.5	95.5
2709	Eresto Silver	0.31 fl oz / cwt	Seed	22.8	91.0	97.0
2710	Maxim MZ	0.5 lb / cwt	Seed	23.1	92.5	94.0
<b>2711</b>	Confidential			22.9	91.5	93.5
<b>2712</b>	Confidential			22.4	89.5	97.0
2713	Moncut 70 DF	1.0 lb / a	In-Furrow	23.6	94.5	95.5
2714	Moncut 70 DF	1.5 lb /a	In-Furrow	22.9	91.5	93.5
2715	Moncut 70 DF + Serenade	1.0 lb / a + 72 fl oz / a	In-Furrow	23.6	94.5	93.0
2716	Quadris	10 oz /a	In-Furrow	24.0	96.0	94.5
2717	Vertisan	24 fl oz / a	In-Furrow	22.9	91.5	93.0
2718	Priaxor	10 fl oz / a	In-Furrow	23.3	93.0	90.5
2719	Convoy 40 SC	24.89 fl oz / a	In-Furrow	22.4	89.5	92.5
2720	Prostar 70 WG	1.0 lb / a	In-Furrow	23.5	94.0	93.0
2721	Convoy 40 SC + Nubark Mancozeb	0.38 fl oz / cwt + 0.75 lbs / cwt	Seed	23.4	93.5	93.0
2722	Eresto Silver + Firbark	0.31 fl oz / cwt + 0.5 lbs / cwt	Seed	24.3	97.0	95.5
2723	Moncoat MZ	0.75 lbs / cwt	Seed	23.3	93.0	96.0
2724	Maxim 4 FS + Quadris	0.08 fl oz/cwt + 9 fl oz/A	Seed In-furrow	22.3	89.0	93.5
LSD <sub>p&gt;0.05</sub>				NS	NS	NS

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Treatment		Rate	Schedule	% Stem Rhizoc	% Stem Girdled	% Stolon Rhizoc	% Stolon Girdled	Vigor	% Decay
2701	Non-treated	-	-	47.5	28.4	32.6	22.9	2.5	63.8
2702	WE 1042-2	1.0 lb / cwt	Seed	17.3	10.8	4.5	1.4	2.7	43.8
2703	WE 1043-1	1.0 lb / cwt	Seed	22.5	7.5	8.2	3.7	2.7	43.8
2704	Maxim 4FS	0.08 fl oz / cwt	Seed	12.1	0.0	1.5	0.0	2.4	75.0
2705	6% Mancozeb	1 lb /cwt	Seed	24.8	4.6	2.2	0.5	2.4	20.0
2706	Maxim 4FS + WE 1042-2	0.08 fl oz / cwt + 1.0 lb / cwt	Seed	8.1	1.3	2.2	0.7	2.3	85.0
2707	Ernesto Silver + WE 1042-2	0.31 fl oz / cwt + 1.0 lb / cwt	Seed	23.9	3.3	1.9	0.0	2.4	63.8
2708	Actinovate AG + Maxim 4FS + WE 1042-2	0.15 oz / cwt + 0.08 fl oz / cwt + 1.0 lb / cwt	Seed	19.6	3.5	4.7	1.9	2.4	75.0
2709	Ernesto Silver	0.31 fl oz / cwt	Seed	20.5	0.0	2.6	0.0	2.3	26.3
2710	Maxim MZ	0.5 lb / cwt	Seed	24.8	1.3	2.2	0.0	2.8	33.8
<b>2711</b>	Confidential			25.2	5.4	8.6	3.9	2.9	41.3
<b>2712</b>	Confidential			17.5	1.7	1.0	0.3	2.5	51.3
2713	Moncut 70 DF	1.0 lb / a	In-Furrow	16.8	4.8	9.5	9.7	2.4	38.8
2714	Moncut 70 DF	1.5 lb /a	In-Furrow	29.6	4.2	2.8	1.1	2.5	22.5
2715	Moncut 70 DF + Serenade	1.0 lb / a + 72 fl oz / a	In-Furrow	17.9	3.3	7.1	1.8	2.3	27.5
2716	Quadris	10 oz /a	In-Furrow	29.6	11.3	7.6	0.0	2.3	26.3
2717	Vertisan	24 fl oz / a	In-Furrow	21.2	2.9	3.7	2.0	2.4	31.3
2718	Priaxor	10 fl oz / a	In-Furrow	33.7	6.7	17.9	6.1	2.5	25.0
2719	Convoy 40 SC	24.89 fl oz / a	In-Furrow	21.3	6.3	8.5	3.1	2.5	40.0
2720	Prostar 70 WG	1.0 lb / a	In-Furrow	19.3	1.3	1.4	0.0	2.2	25.0
2721	Convoy 40 SC + Nubark Mancozeb	0.38 fl oz / cwt + 0.75 lbs / cwt	Seed	20.1	3.4	1.0	0.0	2.7	40.0
2722	Ernesto Silver + Firbark	0.31 fl oz / cwt + 0.5 lbs / cwt	Seed	27.5	3.5	0.9	0.0	2.6	42.5
2723	Moncoat MZ	0.75 lbs / cwt	Seed	19.1	0.0	4.9	1.0	2.5	26.3
2724	Maxim 4 FS + Quadris	0.08 fl oz/cwt + 9 fl oz/A	Seed In-furrow	16.2	0.0	3.7	0.0	2.3	71.3
LSD <sub>p&gt; 0.05</sub>				NS	10.1	7.5	6.2	0.5	25.9



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Treatment		Rate	Schedule	% Rhizoc Coverage 61 DAH
2701	Non-treated	-	-	2.1
2702	WE 1042-2	1.0 lb / cwt	Seed	0.6
2703	WE 1043-1	1.0 lb / cwt	Seed	0.6
2704	Maxim 4FS	0.08 fl oz / cwt	Seed	0.0
2705	6% Mancozeb	1 lb /cwt	Seed	0.2
2706	Maxim 4FS + WE 1042-2	0.08 fl oz / cwt + 1.0 lb / cwt	Seed	0.0
2707	Emesto Silver + WE 1042-2	0.31 fl oz / cwt + 1.0 lb / cwt	Seed	0.1
2708	Actinovate AG + Maxim 4FS + WE 1042-2	0.15 oz / cwt + 0.08 fl oz / cwt + 1.0 lb / cwt	Seed	0.0
2709	Emesto Silver	0.31 fl oz / cwt	Seed	0.0
2710	Maxim MZ	0.5 lb / cwt	Seed	0.1
<b>2711</b>	Confidential			0.1
<b>2712</b>	Confidential			0.0
2713	Moncut 70 DF	1.0 lb / a	In-Furrow	0.7
2714	Moncut 70 DF	1.5 lb /a	In-Furrow	0.4
2715	Moncut 70 DF + Serenade	1.0 lb / a + 72 fl oz / a	In-Furrow	1.0
2716	Quadris	10 oz /a	In-Furrow	0.1
2717	Vertisan	24 fl oz / a	In-Furrow	0.6
2718	Priaxor	10 fl oz / a	In-Furrow	0.5
2719	Convoy 40 SC	24.89 fl oz / a	In-Furrow	0.1
2720	Prostar 70 WG	1.0 lb / a	In-Furrow	0.3
2721	Convoy 40 SC + Nubark Mancozeb	0.38 fl oz / cwt + 0.75 lbs / cwt	Seed	0.0
2722	Emesto Silver + Firbark	0.31 fl oz / cwt + 0.5 lbs / cwt	Seed	0.0
2723	Moncoat MZ	0.75 lbs / cwt	Seed	0.3
2724	Maxim 4 FS + Quadris	0.08 fl oz/cwt + 9 fl oz/A	Seed In-furrow	0.0
LSD <sub>p&gt;0.05</sub>				0.3

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