

Early Blight Standard Foliar Fungicides – (1500 Series)

- Location:** Inkster, ND
Plot design: 4 rows X 30 feet X 4 replicates; RCBD
All four rows were sprayed; data taken from center two rows
- Planting date:** May 27, 2009
Row width: 36 inches
Seed spacing: 14 inches
- Cultivar:** Ranger Russet
50% Emergence: June 17
- Herbicide:** Prowl (2.0 pt/a) + Matrix (1.0 oz/a) + Sencor (0.5 lb/a); June 12
Sencor (0.5 lb/a) + Matrix (1.0 oz/a); June 20
- Fertilizer:** 57#N, 200#K, 20#S; Broadcast May 14
29#N, 100#P, 1# Zn; at planting
20#N; Fertigation July 14
20#N; Fertigation July 19
20#N; Fertigation July 24
- Insecticide:** Belay in-furrow (12.0 oz/a); May 27
Baythroid (1.0 oz/a); August 18
- Objective:** To determine the efficacy of standard fungicide chemistries and fungicide programs for the control of early blight caused by *Alternaria solani*.
- Fungicide application dates:** July 8, 13, 22, 29, August 5, 10, 18
- Fungicide application method:** Fungicides were applied using a converted ATV.
(55 psi; 61 gpa; 11005XR nozzles)
- Vinekill:** Reglone (2.0 pt/a) + Ad-Wet 90 Plus (1.0 pt/a/100gal); August 20, 25
- Harvest:** September 18

Treatment	Rate	Schedule	Foliar Disease (% Severity)							AUDPC	RAUDPC	Total Yield (cwt/a)
			7/7	7/13	7/20	7/27	8/3	8/10	8/17			
1506 Bravo WS	1.5 pt / a	1,2,4,6	0.0	0.1	1.2	1.7	3.2	3.6	5.1	84.8	0.021	389.2
Revus Top +	7.0 oz / a +	3,5,7										
Activator 90	0.125% v/v											
1507 Bravo WS	1.5 pt / a	1-4,6	0.0	0.2	1.3	4.2	4.6	5.1	5.5	126.9	0.031	389.3
Revus Top +	7.0 oz / a +	5,7										
Activator 90	0.125% v/v											
1508 Catamaran 5.2 F	5.0 pt / a	1-6	0.0	0.1	0.7	1.7	2.2	3.3	4.8	72.6	0.018	393.1
Catamaran 5.2 F	6.0 pt / a	7										
1509 Bravo Zn	2.125 pt / a	1,2,4,6	0.0	0.2	1.3	3.1	5.1	7.9	8.1	150.9	0.037	398.1
Headline +	6.0 fl oz / a +	3										
Manzate	2.0 lb / a											
Endura +	2.5 oz / a +	5										
Manzate	2.0 lb / a											
Scala +	7.0 fl oz / a +	7										
Manzate	2.0 lb / a											
1510 Bravo ZN	2.125 pt / a	1,3,5,7	0.0	0.0	0.4	1.4	2.5	3.8	4.4	72.6	0.018	401.0
Tanos +	6.0 oz / a +	2,6										
Manzate	2.0 lb / a											
Endura +	2.5 oz / a +	4										
Manzate	2.0 lb / a											
1511 Manzate	2.0 lb / a	Full season	0.0	0.1	0.7	2.8	3.7	5.3	4.9	105.3	0.026	386.2
1512 Bravo Zn	2.125 pt / a	Full season	0.0	0.1	0.9	2.1	3.4	4.7	5.6	97.1	0.024	397.7
LSD _{P = 0.05}			.	NS	0.9	1.3	1.4	1.9	1.9	41.7	0.010	19.8