

Standard Fungicides-Late Blight (1300 Series)

Location: Prosper, ND
Plot design: 4 rows X 25 ft. X 4 reps; RCBD
All four rows sprayed
All data collected from center two rows

Planting date: May 23, 2006
Row width: 36 inches
Plant spacing: 12 inches

Cultivar: Red LaSoda

Fertilizer: 300 lb/a, 32-10-10, banded at planting

Herbicide: Treflan (1 lb/a); Pre-plant incorporated
Prowl (2pt/a) + Sencor (3oz/a) + Matrix (1.5oz/a) June 12

Insecticide: Admire Pro in-furrow at planting (8oz/a)
Thiodan (1.3 qt/a) August 19

Inoculation Dates: August 9, 11, 14, 17, 21, 24

Inoculation Method: Using a hand sprayer (garden type), a suspension of late blight inoculum (1×10^4 zoospores/ml) was sprayed onto the foliage in the center of each 8 row block in each replication.

Fungicide application dates: July 12
July 19
July 31
August 4
August 11
August 19
August 24
September 1
September 7

Fungicide application method: Fungicides were applied using a converted ATV, (55 psi; 73 gpa; 11005XR nozzles).

Vinekill: Rotobeat October 6

Harvest: October 10, 11

Late Blight Standard Foliar Fungicides - Prosper Series 1300

Treatment	Rate	Application	Early Blight Severity (%)			Total Yield (cwt/a)
			8/16	8/24	9/8	
1301 Untreated			0.0	0.0	60.0	180.7
1302 Dithane	2 lb/a	1-4	0.0	0.0	56.3	260.9
Gavel	2 lb/a	5-9				
1303 Dithane	2 lb/a	Full season	0.0	0.0	47.5	247.2
1304 Bravo Weatherstik	1.3 pts/a	1-3,5,7,9	0.0	0.0	33.8	351.1
Ranman +	2.75 fl oz/a +	4,6,8				
Penncozeb 4F +	2.4 pts/a +					
Silwet	2 fl oz/a					
1305 Evito +	1.9 fl oz/a +	1,3,5,7,9	0.0	0.0	46.3	250.7
Induce	0.25% v/v					
Bravo Zn	2.125 pt/a					
1306 Evito +	3.8 fl oz/a +	1,3,5,7,9	0.0	0.0	46.3	276.2
Induce	0.25% v/v					
Bravo Zn	2.125 pt/a	2,4,6,8				
1307 Quadris	12.3 fl oz/a	1,3,5,7,9	0.0	0.0	52.5	260.1
	2.125 pt/a	2,4,6,8				
1308 Evito +	1.9 fl oz/a +	1,3,5,7,9	0.0	0.0	51.3	261.4
Bravo Zn	1.5 pt/a					
Bravo Zn	1.5 pt/a	2,4,6,8				
1309 Echo 720	24 fl oz/a	Full season	0.0	0.0	41.3	277.4
1310 Echo 720	16 fl oz/a	Full season	0.0	0.0	48.8	256.9
1311 Echo 720	8 fl oz/a	Full season	0.0	0.0	58.3	302.1
1312 SA-010903	24 fl oz/a	Full season	0.0	0.0	51.3	202.1
1313 SA-010903	16 fl oz/a	Full season	0.0	0.0	48.8	278.8
1314 SA-010903	8 fl oz/a	Full season	0.0	0.0	50.0	254.9
1315 Echo Zn	2.125 pt/a	Full season	0.0	0.0	50.0	241.2
1316 Echo Zn	2.125 pt/a	1	0.5	0.0	32.5	367.2
Echo Zn +	2.125 pt/a +	2 - 9				
Precision NIS	0.125 v/v					
1317 Echo Zn	2.125 pt/a	1 - 3	0.0	0.0	38.8	314.3
Echo Zn +	2.125 pt/a +	4 - 9				
SA-1100201	4 fl oz/a					
1318 Equus 720 SST	12.8 fl oz/a	1 - 3	0.0	0.0	56.3	239.6
Equus 720 SST	24 fl oz/a	4 - 9				
1319 Equus 500 Zn	18.4 fl oz/a	1 - 3	0.0	0.0	58.8	301.2
Equus 500 Zn	2.125 pt/a	4 - 9				
1320 Equus 82.5% WDG	11.6 oz/a	1 - 3	0.0	0.0	66.3	206.3
Equus 82.5% WDG	21.8 oz/a	4 - 9				
1321 Echo Zn +	2.125 pt/a +	Full season	0.0	0.0	46.3	272.6
Protyx	0.125% v/v					
1322 Echo Zn +	2.125 pt/a +	Full season	0.0	0.0	23.8	364.2
Protyx	0.125% v/v	10 days, 7				
LSD _{P=0.05}			NS	NS	NS	NS