

Standard Foliar 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 28, 2008
Row width: 36 inches
Plant spacing: 12 inches

Cultivar: Red LaSoda

Fertilizer: 240 lb/a, 32-10-10, banded at planting

Herbicide: Treflan (1.5 pt/a); pre-plant incorporated May 17
Prowl (2 pt/a) + Matrix (1.5 oz/a) June 24

Insecticide: Belay (12 oz/a) in-furrow at planting

Inoculation Dates: July 30, August 4, 10

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.

Late Blight observed: August 13

Fungicide application dates: July 24
August 1
August 6
August 14
August 24
August 28
September 4
September 16

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

Vinekill: None

Harvest: October 9, 2008

Late Blight Foliar Fungicides - Prosper Series 1300

Treatments 1310-1312 are confidential

Treatment	Rate	Schedule	Interval	Late Blight Severity (%)							AUDPC	Total Yield (cwt/a)	Tuber Rot (cwt/a)
				8/5	8/13	8/19	8/27	9/5	9/12	9/19			
1301 Non-treated	-	-	-	0.0	0.5	3.3	21.3	46.3	63.8	96.3	1360.0	337.4	73.5
1302 Penncozeb 75 DF	2.0 lb / a	1-5	7 day	0.0	0.0	0.0	1.3	6.3	7.5	11.3	86.9	633.0	3.3
Super Tin 80 WP + Penncozeb 75 DF	3.75 oz / a + 2.0 lb / a	6-8											
1303 Penncozeb 75 DF	2.0 lb / a	1-8	7 day	0.0	0.0	0.0	1.0	10.0	12.5	13.8	132.3	567.8	11.8
1304 TD-2368-01 76DF	3.0 lb / a	1-8	7 day	0.0	0.0	0.0	3.5	20.0	21.3	86.3	264.1	428.2	82.7
1305 TD-2368-01 76DF	4.0 lb / a	1-8	7 day	0.0	0.0	0.0	6.8	18.8	23.8	77.5	290.5	354.1	107.2
1306 VZP + Vigor-Manganese-Phos (add Endura if EB appears)	1.0 pt / a + 1.0 pt / a	1-8	7 day	0.0	0.0	0.0	7.0	17.5	25.0	80.0	287.0	457.9	44.0
1307 VZP + Vigor-Manganese-Phos Dithane	1.0 pt / a + 1.0 pt / a 2.0 lb / a	1,3,5,7 2,4,6,8	7 day	0.0	0.0	0.0	2.8	13.8	16.3	38.8	190.3	494.0	30.2
1308 VZP + Vigor-Manganese-Phos Bravo WS	1.0 pt / a + 1.0 pt / a 1.5 pt / a	1,3,5,7 2,4,6,8	7 day	0.0	0.0	0.0	2.5	6.8	11.3	23.8	114.6	479.8	28.1
1309 VZP + Vigor-Manganese-Phos VZP + Vigor-Manganese-Phos Bravo WS Dithane Agro-K-Phos + Vigor-Cal-Phos	2.0 qt / a + 1.0 qt / a 2.0 qt / a + 1.0 qt / a 1.5 pt / a 2.0 lb / a 1.0 qt / a + 1.0 qt / a	prior to hooking hooking + 14 days 1-4 5,8 6,7	7 day	0.0	0.0	0.0	1.3	4.3	6.3	13.8	66.5	569.2	4.0
1310 Confidential				0.0	0.0	0.0	3.8	20.0	27.5	55.0	288.1	477.0	22.4
1311 Confidential				0.0	0.0	0.0	2.0	11.3	18.8	30.0	172.6	560.0	11.9
1312 Confidential				0.0	0.0	0.0	1.5	8.8	15.0	23.8	135.3	581.4	13.2
1313 Bravo WS	1.5 pt / a	1-8	7 day	0.0	0.0	0.0	1.3	6.8	10.0	16.3	99.6	534.3	46.3
1314 Dithane Gavel	2.0 lb / a 2.0 lb / a	1-4 5-8	7 day	0.0	0.0	0.0	1.3	8.8	10.0	13.8	115.6	618.6	14.5
LSD _{P = 0.05}				NS	NS	0.8	3.0	8.0	8.4	16.1		69.6	29.6