

Foliar Fungicides – Standard Chemistries – Early Blight (1500 Series)

Location: Field 1 - Browerville, MN
Plot design: 4 rows X 30 feet X 4 replicates; RCBD
All four rows were sprayed; data taken from center two rows

Planting date: April 18 and 19, 2006
Row width: 36 inches
Seed spacing: 14 inches

Cultivar: Russet Burbank
50% Emergence: May 24

Fertilizer: Broadcast: 414#K, 30#Mg, 60#S, 1.2 #B;
Starter: 45#N, 152#P, 0.5 # Zn;
Sidedress: 103 #N; May 18
Fertigation: 30#N; June 22
33#N; June 29
30#N; July 6

Herbicide: Sencor (0.6 lb / a) + Stalwart (1.25 pt / a); May 18
Select Max (12.0 oz /a); August 10

Insecticide: Admire 2F in-furrow (18.0 oz/a)
Baythroid (1.0 oz/a); July 14
Asana (8.0 oz/a); July 24
Asana (6.0 oz/a); August 10

Fungicide application dates: June 16, 22, 29, July 6, 14, 20, 26, August 2, 10, 17

Fungicide application method: Fungicides were applied using a converted ATV.
(55 psi; 61 gpa; 11005XR nozzles)

Vinekill: Reglone (2.0 pt / a) + LI700; August 30

Harvest: September 6-8

Early Blight Foliar Standard Commercial Fungicides Browerville Series 1500

NOTE: Treatments 1513 and 1514 are confidential.

[illegible]

Treatment		Rate	Schedule	Foliar Disease (%Severity)									AUDPC	RAUDPC	Total Yield (cwt/a)
				6/29	7/5	7/12	7/18	7/25	8/3	8/9	8/16	8/23			
1512	Tanos + Manzate Manzate	6.0 oz / a + 1.5 lb / a 2.0 lb / a	1,3,5,7,9 2,4,6,8,10	0.01	0.01	0.05	0.14	0.33	8.2	34.0	96.1	99.1	622.2	0.130	434.8
1513	Confidential			0.03	0.19	0.74	0.84	1.93	17.8	50.9	97.7	99.7	832.8	0.174	396.9
1514	Confidential			0.01	0.02	0.07	0.16	0.29	6.2	32.8	97.0	99.1	602.6	0.126	418.6
1515	Quadris	6.2 fl oz / a	Full Season	0.01	0.04	0.81	1.00	3.47	35.8	65.0	98.9	99.5	1076.8	0.224	401.8
1516	Evito + Silwet	1.9 fl oz / a + 0.25% v/v	1-3	0.45	0.34	0.41	0.71	0.91	17.9	49.5	96.3	99.7	811.1	0.169	378.8
	Evito + Induce	1.9 fl oz / a + 0.25% v/v	4-6												
	Evito + Acitvator 90	1.9 fl oz / a + 0.25% v/v	7-10												
1517	Dithane Scala + Echo Zn	2.0 lb / a 7.0 oz / a + 1.3 pt / a	1,3,5-10 2,4	0.03	0.10	0.26	0.68	0.70	10.8	28.2	95.9	99.4	612.4	0.128	461.1
1518	Dithane Scala + Echo Zn	2.0 lb / a 7.0 oz / a + 1.3 pt / a	1-6,8,10 7,9	0.03	0.02	0.12	0.29	1.19	13.7	41.5	98.3	99.2	729.1	0.152	415.7
1519	Dithane Reason + Bond + Dithane Scala + Echo Zn	2.0 lb / a 4.0 oz / a + 0.1% v/v + 1.5 lb / a 7.0 oz / a + 1.3 pt / a	1,3,5,6,8,10 2,9 4,7	0.04	0.63	0.52	0.64	1.32	8.3	29.1	93.7	99.2	601.4	0.125	448.1
1520	Echo Zn Reason + Bond + Dithane Echo Zn Scala + Dithane	1.3 pt / a 4.0 oz / a + 0.1% v/v + 1.5 lb / a 2.125 pt / a 7.0 oz / a + 1.5 lb / a	1 2,6 3,5,7,9,10 4,8	0.03	0.33	0.19	0.85	1.53	6.3	27.3	88.8	97.7	555.9	0.116	440.3
1521	Echo Zn Tanos + Dithane Echo Zn Endura + Dithane Scala + Dithane	1.3 pt / a 6.0 oz / a + 1.5 lb / a 2.125 pt / a 2.5 oz / a + 1.5 lb / a 7.0 oz / a + 1.5 lb / a	1,2 3 4,6,8-10 5 7	0.03	0.06	0.26	0.36	0.41	3.8	14.1	89.5	97.6	441.3	0.092	428.8

Treatment		Rate	Schedule	Foliar Disease (%Severity)									AUDPC	RAUDPC	Total Yield (cwt/a)
				6/29	7/5	7/12	7/18	7/25	8/3	8/9	8/16	8/23			
1522	Echo Zn	1.3 pt / a	1,2	0.01	0.04	0.14	0.18	0.22	2.5	11.2	90.3	98.2	411.9	0.086	430.8
	Tanos +	6.0 oz / a +	3												
	Dithane	1.5 lb / a													
	Echo Zn	2.125 pt / a	4,6-8,10												
	Endura +	2.5 oz / a +	5												
	Dithane	1.5 lb / a													
	Scala +	7.0 oz / a +	9												
	Dithane	1.5 lb / a													
1523	Gavel	2.0 lb / a	Full Season	0.04	0.10	0.56	0.79	1.81	16.6	34.8	90.7	97.6	691.9	0.144	427.5
1524	Dithane DF Rainshield NT	2.0 lb / a	Full Season	0.00	0.00	0.03	0.50	1.32	9.5	28.6	94.9	97.7	602.9	0.126	422.5
1525	Quadris Opti	1.6 pt / a	1,3	0.01	0.03	0.08	0.16	0.24	1.1	5.1	83.3	98.0	335.9	0.070	446.5
	Endura	2.5 oz / a	2,6												
	Bravo Zn	2.125 pt / a	4,5,7-10												
1526	Bravo Zn	2.125 pt / a	1,5,7-10	0.00	0.01	0.08	0.14	0.24	2.4	10.0	86.3	97.4	388.9	0.081	391.9
	Quadris Opti	1.6 pt / a	2,4												
	Endura	2.5 oz / a	3,6												
1527	Bravo Zn	2.125 pt / a	1	0.01	0.04	0.17	0.25	0.46	8.1	25.1	95.8	98.6	565.3	0.118	423.2
	Bravo Zn + Protyx	2.125 pt / a + 0.125% v/v	2-10												
1528	Bravo Zn	2.125 pt / a	1	0.05	0.10	0.19	0.19	0.48	20.3	44.2	98.3	99.5	790.6	0.165	435.4
	Bravo Zn +	2.125 pt / a +	2-10												
	Precision NIS	0.125% v/v													
1529*	Bravo Zn	2.125 pt / a	1	0.01	0.08	0.31	0.27	0.36	2.4	10.1	90.8	97.8	408.6	0.085	418.2
	Bravo Zn + Protyx	2.125 pt / a + 0.125% v/v	2-7												
1530	Bravo Zn	2.125 pt / a	1,3,5,7,9,10	0.03	0.04	0.07	0.15	0.49	9.4	35.4	94.6	98.8	637.0	0.133	437.1
	Tanos +	6.0 oz / a +	2,6												
	Dithane	1.5 lb / a													
	Endura +	2.5 oz / a	4,8												
	Dithane	1.5 lb / a													
1531	Bravo Zn	2.125 pt / a	Full Season	0.21	0.17	0.24	0.50	1.01	17.6	39.4	91.5	98.0	723.2	0.151	431.9
1532	Bravo Zn	2.125 pt / a	1,2,4,6,8-10	0.03	0.03	0.10	0.18	0.24	4.6	18.4	88.7	98.8	467.9	0.097	436.3
	Tanos +	6.0 oz / a +	3												
	Dithane	1.5 lb / a													
	Endura +	2.5 oz / a +	5												
	Dithane	1.5 lb / a													
	Scala + Dithane	7.0 oz / a + 1.5 lb / a	7												
LSD _{P=0.05}				0.11	0.22	0.46	0.58	1.35	8.9	10.6	4.3	1.4	328.7	0.069	33.7

*NOTE: Treatment #1529 on a 10 day schedule application, all other treatments on a 7 day schedule.