

Foliar Fungicide Standard Chemistries II (1400 Series)

Location: Tappen, ND
Plot design: 4 rows X 25 feet X 4 replications, RCBD
All four rows sprayed, data taken from center two rows.

Planting date: May 16, 2003
Row width: 36 inches
Seed spacing: 12 inches
Soil Temperature: 63F

Cultivar: Russet Norkotah

Fertilizer: Pre-plant Incorporated: 14# N, 65# P, 300# K
Banded Starter: 58# N, 159# P, 23# S
Sidedress: 71# N, 21# S; June 4
Foliar: 15# N; July 15
15# N; July 21

Herbicide: Prowl (2 pt/a) + Matrix (1.5 oz/a); June 9

Insecticide: Platinum in-furrow (8 oz/a)

Inoculation method: Early Blight: Greenhouse reared tomato plants, cv. Sheyenne, were inoculated with a combination of 10 azoxystrobin reduced sensitive *A. solani* isolates originally isolated from North Dakota. Four pots containing three infected plants each were transplanted into the center two rows of each eight-row plot on **July 10**, following the second fungicide application.

Fungicide application dates: June 30, July 7, 15, 21 28, August 4, 11, 18, 25, 31

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

Vinekill: Rotobeat, September 17

Harvest: September 23

Foliar Fungicides II - Tappen Series 1400

Treatment	Rate	Schedule	Early Blight (% Severity)									AUDPC	RAUDPC	Total Yield (cwt/a)
			7/8	7/16	7/22	7/29	8/5	8/18	8/25	9/2	9/8			
1401 Untreated			0.0	0.1	0.3	0.7	2.4	41.9	79.4	93.6	98.8	2005.2	0.32	430.8
1402 Dithane	2.0 lb/a	1-7	0.0	0.1	0.3	0.5	0.5	22.8	62.5	80.3	92.6	1548.5	0.25	425.4
Gavel	2.0 lb/a	8,9,10												
1403 Dithane	2.0 lb/a	1-5	0.0	0.1	0.2	0.8	1.9	21.3	64.6	81.9	91.8	1572.8	0.25	445.4
Gavel	2.0 lb/a	6-10												
1404 Dithane	2.0 lb/a	Full Season	0.0	0.0	0.4	0.8	1.2	24.4	55.3	74.7	93.7	1489.4	0.24	460.2
1405 Bravo Zn	2.0 pt/a	Full Season	0.0	0.1	0.3	0.3	0.8	19.4	54.1	77.8	92.3	1437.9	0.23	457.1
1406 Bravo Zn	2.0 pt/a	1,3,5,7,9	0.0	0.1	0.2	0.2	1.3	26.9	63.4	81.9	95.4	1624.1	0.26	440.6
Quadris	6.2 oz/a	2,4,6,8,10												
LSD _{P=0.05}			NS	NS	NS	NS	1.0	6.6	9.5	7.3	4.4	309.8	0.05	NS