

**EVALUATION OF OMEGA APPLIED BY CHEMIGATION FOR CONTROL OF
POWDERY SCAB ON POTATO, 2003**

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Location: Off-station

Cultivar: Chipeta, cut seed, 2-4 oz.

Objective: To evaluate the efficacy of applying Omega fungicide throughout the growing season in preventing powdery scab on potato.

Treatments:

1. Control, no treatment
2. Omega @ 3.0 pt./A, applied on July 10, 2003
3. Omega @ 3.0 pt./A, applied on August 5, 2003
4. Omega @ 3.0 pt./A, applied on August 22, 2003

Application: Omega was applied through center pivot chemigation for all treatments. For Omega Applications: Chemical was mixed with 20 gal. of water and was irrigated with 0.5 inches of water.

Planted: May 12, 2003

Plot Design: Randomized sampling within treatment blocks.

Plot Size: 1- 4 acre plot of ground per treatment per replication

Plant Spacing: 12 inches

Row Spacing: 34 inches

Replications: Three

Irrigation: Center pivot sprinkler, rate based on ET

Fertilizer:

Herbicide:

Insecticide:

Fungicide:

Vine Killer: Sulfuric Acid

Harvested: September 10, 2003

DATA

Disease: Mean percent of 100 tubers, taken from three samples from the treated area, showing powdery scab lesions at harvest and the number of lesions found per tuber at harvest.

Table 1. Effect of Omega fungicide applied by chemigation on the incidence of powdery scab on tubers in the cultivar Chipeta, San Luis Valley, Colorado, 2003

Cultivar	% Infected ^a	% with 1-5 lesions ^b	% with 6-10 lesions ^c	% with 11-20 lesions ^d	% with 21-30 lesions ^e	% with >21 lesions ^f	% with >30 lesions ^g
1. Control, no treatment	62.0	19.0	9.0	13.0	12.0	21.0	9.0
2. Omega @ 3.0 pt./A, applied on July 10, 2003	59.0	14.0	12.0	4.0	8.0	29.0	21.0
3. Omega @ 3.0 pt./A, applied on August 5, 2003	71.0	29.0	8.0	10.0	12.0	24.0	12.0
4. Omega @ 3.0 pt./A, applied on August 22, 2003	49.0	22.0	9.0	8.0	3.0	10.0	7.0
LSD(P=0.05)	NS	NS	NS	NS	NS	NS	NS

^a % Infected = Percent of affected tubers out of 100 8 to 10 oz. tubers/treatment/replication.

^b Percent number of tubers out of 100 8 to 10 oz. tubers with 1-5 lesions/treatment/replication.

^c Percent number of tubers out of 100 8 to 10 oz. tubers with 6-10 lesions/treatment/replication.

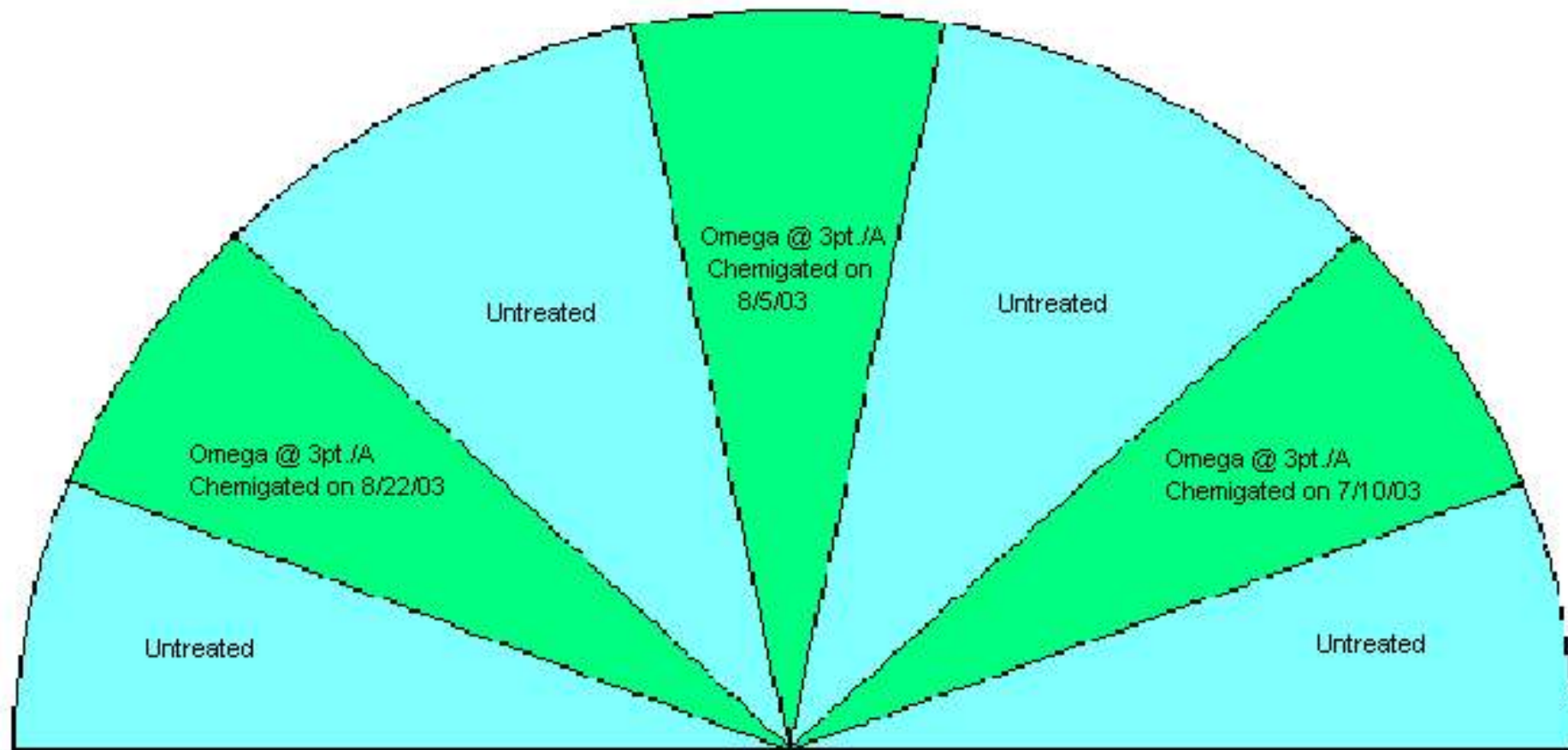
^d Percent number of tubers out of 100 8 to 10 oz. tubers with 11-20 lesions/treatment/replication.

^e Percent number of tubers out of 100 8 to 10 oz. tubers with 21-30 lesions/treatment/replication.

^f Percent number of tubers out of 100 8 to 10 oz. tubers with >21 lesions/treatment/replication.

^g Percent number of tubers out of 100 8 to 10 oz. tubers with >30 lesions/treatment/replication.

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Omega Chemigation Trial Layout, San Luis Valley, 2003