

## 2001 PROTOCOL FOR EVALUATION OF FUNGICIDES APPLIED AT PLANTING FOR CONTROL OF POWDERY SCAB ON POTATO

**Researcher:** Richard Zink, Robert Davidson, and Andrew Houser, Colorado State University

**Location:** Charlotte Howey Farm, Center, CO

**Cultivar:** Cherry Red, whole seed

**Treatments:**

1. Control, no treatment
2. Fluazinam, 7 pt./A In-furrow
3. Fluazinam, 7 pt./A 1/3 In-furrow, 1/3 over seed, 1/3 at row closing
4. Fluazinam, 7 pt./A on row top after closure at planting
5. Tops MZ on seed
6. Evolve on seed
7. Moncut 50W, 1.0 lb./A In-furrow
8. Moncut 50W, 1.5 lb./A In-furrow
9. Moncut 50W, 2.0 lb./A In-furrow
10. Manex 5 qt./A In-furrow
11. Super Tin 8 oz./A In-furrow
12. Quadris 4.5 pt./A In-furrow
13. Planting date May 17
14. Planting date May 25
15. Planting date June 1

**Application:** In-furrow treatments were applied using an R & D CO<sub>2</sub> charged backpack sprayer at 35 PSI, with one XR 8002VS nozzle, at 10 gallons/acre. Treatments 5 and 6 were applied directly to whole seed and planted within twenty-four hours.

**Planted:** May 17, 2001

**Plot Design:** Randomized

**Plot Size:** 1 - 20 foot row per treatment per replication

**Plant Spacing:** 12 inches

**Row Spacing:** 34 inches

**Replications:** Three

**Irrigation:** Center pivot sprinkler, rate based on ET

**Fertilizer:** 65N-200P-50K-10S-3Z, preplant, 60N and 130S through sprinkler

**Herbicide:** None

**Insecticide:** Pounce, 6 oz./A

**Fungicide:** Ridomil Copper, 1.9 lb./A + Bravo WS, 20 oz./A + Quadris, 6 oz./A + Champ, 4 oz./A

**Vine Killer:** Rotobeat vines on August 21, 2001

**Harvested:** By hand, September 14, 2001

### DATA

**Disease:** Mean percent of the number of tubers showing one or more powdery scab lesions at harvest multiplied by the severity of the lesions, where 1 = not severe and 5 = very severe.

