

2001 PROTOCOL FOR EVALUATION OF FUNGICIDES APPLIED AT PLANTING FOR CONTROL OF PINK ROT ON POTATO

- Researchers:** Richard T. Zink, Associate Professor, and Andrew Houser, Research Associate, Department of Horticulture and Landscape Architecture, Colorado State University
- Location:** San Luis Valley Research Center, Center, CO
- Cultivar:** Russet Norkotah, cut seed, 2-4 oz.
- Treatments:**
1. Control, no treatment
 2. Ridomil Gold 4EC, 3.23 oz. a.i./A (In-furrow)
 3. Ridomil Gold 4EC, 3.23 oz. a.i./A (At hilling)
 4. Ridomil Gold 4EC, 3.23 oz. a.i./A (In-furrow) + Ridomil Gold Bravo 76.5 WP, 1.5 lb. a.i./A (Foliar-50 days after planting)
 5. Quadris 2.08 SC, 2.4 oz. a.i./A (In-furrow) + Ridomil Gold Bravo 76.5 WP, 1.5 lb. a.i./A (Foliar-50 days after planting)
 6. A12425, 5.16 oz. a.i./A (In-furrow) + Ridomil Gold Bravo 76.5 WP, 1.5 lb. a.i./A (Foliar-50 days after planting)
 7. A12425, 5.16 oz. a.i./A (At emergence)
 8. Ridomil Gold 4 EC, 3.23 oz. a.i./A + Platinum 2 SC, 1.57 oz. a.i./A + Quadris 2.08 SC, 2.4 oz. a.i./A (In-furrow)
 9. Ridomil Gold Bravo 76.5 WP, 1.5 lb. a.i./A (2 Foliar-50 days and 67 days after planting)
 10. A12425, 5.16 oz. a.i./A + Quadris 2.08 SC, 2.4 oz. a.i./A (In-furrow)
 11. Ridomil Gold 4 EC, 3.23 oz. a.i./A + Platinum 2 SC, 1.57 oz. a.i./A + Quadris 2.08 SC, 2.4 oz. a.i./A (At hilling)
- Application:** Treatments were applied using an R & D CO₂ charged backpack sprayer at 35 PSI, with one XR 8002VS nozzle, at 10 gallons/acre.
- Planted:** May 14, 2001
- Plot Design:** Randomized complete block
- Plot Size:** 1 - 25 foot row per treatment per replication
- Plant Spacing:** 12 inches
- Row Spacing:** 34 inches
- Replications:** Four
- Irrigation:** Solid set sprinkler, rate based on ET
- Fertilizer:** 80N-60P-40K, 40N through sprinkler
- Herbicide:** Dual Magnum, 1.33 pt./A + Matrix, 1.5 oz./A
- Insecticide:** Leverage 2.7, 3.75 fl.oz./A
- Fungicide:** Dithane DF, 2.0 lb./A + Bravo WS, 1.5 pt./A + Quadris, 15.4 fl.oz./A
- Vine Killer:** Sulfuric acid on August 31, 2001
- Harvested:** September 12, 2001

DATA

- Disease:** Percent tubers with pink rot at harvest and after harvest by challenge inoculation.
- Yield:** 1-25 foot row per treatment per replication, total yield expressed as cwt/A.
- Grade:** By hand, percent tubers by weight in lbs < 4 oz., 4-10 oz., > 10 oz., US #2's, and culls.

