

2002 POTATO - EARLY BLIGHT FUNGICIDE TRIALS

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 Selection 8, cut seed, 2-4 oz.

Applications: All treatments applied using an R & D CO₂ charged tractor mounted plot sprayer with four XR 8002VS nozzles spaced seventeen inches apart at 60 psi pressure and applying 40 gallons/acre as a broadcast application.

Spray Dates: July 1 & 2; July 8 & 9; July 15 & 16; July 22 & 23; July 29 & 30; August 5 & 6; August 12; August 19

Planted: May 9, 2002

Plot Design: Randomized complete block

Plot Size: 4 - 20 foot rows per treatment per replication, treatments applied to center two rows and data taken on two center rows

Plant Spacing: 12 inches

Row Spacing: 34 inches

Replications: Four

Irrigation: Solid set sprinkler, rate based on ET

Fertilizer: 80N-70P-40K-18S-1Zn, preplant, 40N through sprinkler after tuber set

Herbicide: Matrix, 1.5 oz./A + Eptam, 4.5 pt./A + Poast, 2.0 pt./A

Insecticide: None

Vine Killer: Beat vines on September 3, 2002

Harvested: September 9, 12, & 13, 2002

DATA:

Disease: Early blight disease incidence based on percent leaves infected, readings taken weekly starting August 2, 2002.

Yield: 2-20 foot rows per treatment per replication, total yield expressed as cwt/A.

Grade: By hand, percent tubers by weight in pounds < 4 oz., 4-10 oz., > 10 oz., US #2's, and culls.