

2001 PROTOCOL FOR EVALUATION OF FUNGICIDES FOR CONTROL OF EARLY BLIGHT ON POTATO

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Location: San Luis Valley Research Center, Center, CO

Acknowledgements: We gratefully acknowledge the cooperation and financial support of BASF Corporation, Colorado Potato Administrative Committee (Area II), DuPont Ag Products, Griffin L.L.C., Rohm and Haas Company, Syngenta, and United Agri Products.

Cultivar: Russet Nugget, 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 9 & 10; July 16 & 17; July 23 & 24; July 30 & 31; August 6 & 7; August 13 & 14; August 20 & 21; August 27 & 28

Planted: May 17, 2001

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-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

Vine Killer: Killed by frost, September 9, 2001

Harvested: September 19 - 21, 2001

DATA:

Disease: Early blight disease incidence based on percent leaves infected, readings taken weekly starting August 2, 2001.

Yield: 2-20 foot rows 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.

