

2001 PROTOCOL FOR EVALUATION OF ADVANCED CLONES FOR RESISTANCE TO POWDERY SCAB

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Location: Charlotte Howey Farm, Center, CO

Clones:

1. Kennebec
2. Russet Burbank
3. AC91014-2RU
4. AC89536-5RU
5. AC89653-3W
6. AC87079-3RU
7. AC87138-4RU
8. CO85026-4RU
9. CO86218-2R
10. CO89097-2R
11. AC87340-2W
12. BC0894-2W

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: Galls on roots rated 0 to 3, 0 = none, 3 = heavily infected, readings taken August 15.
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.