

2002 PROTOCOL FOR EVALUATION OF ADVANCED CLONES FOR SUSCEPTIBILITY TO POWDERY SCAB

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Location: Mike Mitchell's Farm, Monte Vista, CO

Objective: To evaluate the susceptibility of advanced potato clones to powdery scab.

Clones:

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|--------------------|--------------------|
| 1. AC92009-4RU | 17. A90586-11 |
| 2. CO92077-2RU | 18. A84118-3 |
| 3. NDC5281-2R | 19. Bannock Russet |
| 4. NDC5372-1RU | 20. Gem Russet |
| 5. TC1675-1RU | 21. Ivory Crisp |
| 6. AC89536-5RU | 22. Alturas |
| 7. CO85026-4RU | 23. AF1758-7 |
| 8. CO86218-2R | 24. B0564-8 |
| 9. CO89097-2R | 25. MSG227-2 |
| 10. AC87340-2W | 26. Atlantic |
| 11. BC0894-2W | 27. Superior |
| 12. Russet Burbank | 28. B1240-1 |
| 13. Durango | 29. Liberator |
| 14. Satina | 30. B0766-3 |
| 15. CalRed | 31. SC8801-2 |
| 16. DT6063-1R | 32. Ranger Russet |

Planted: May 10, 2002

Plot Design: Randomized

Plot Size: 1 - 10 foot row per treatment per replication

Plant Spacing: 12 inches

Row Spacing: 34 inches

Replications: Four

Irrigation: Center pivot sprinkler, rate based on ET

Fertilizer: 60N-140P-0K-43S preplant, 95N-15S topdress

Herbicide: Eptam 7E, 4.5 pt./A + Sencor DF, 0.25 lb./A

Insecticide: Asana XL, 8 oz./A

Fungicide: Dithane DF, 1.5 lb./A + Quadris, 6.2 oz./A

Vine Killer: Reglone on August 16, 2002

Harvested: September 17, 2002

DATA

Disease: Galls on roots rated 0 to 4, 0 = none, 4 = heavily infected, readings taken August 1. 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.