REDSEN: A NEW BRIGHT RED-SKINNED POTATO CULTIVAR

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Abstract

Redsen is a smooth, round, bright red-skinned potato cultivar with medium to high yield potential. It has resistance to race 0 of late blight (Phytophthora infestans) and is moderately resistant to some strains of silver scurf (Helminthosporium solanum) and common scab (Streptomyces scabies). The red color resists fading during storage and Redsen retains excellent marketability during storage.

Resumen

Redsen es un nuevo cultivar de papa de piel lisa y color rojo brillante, de forma redonda y de mediano a alto potencial de rendimiento. Es un cultivar resistente a la raza 0 de tizón tardío (Phytophthora infestans) y es moderadamente resistente a algunos "strains" de costra plateada (Helminthosporium solanum) y sarna común (Streptomyces scabies). El color rojo resiste a los cambios debido a la luz en almacenamiento, por lo que este cultivar retiene su estado comerciable en forma excelente durante el almacenaje.

Introduction

On March 1, 1983, the potato selection ND146-4R was released by the North Dakota Agricultural Experiment Station and named Redsen. The name is derived from the bright red skin color and the last syllable of the name Johansen. Since the introduction of Norland in 1957 (1), Redsen is the twelfth potato cultivar released by North Dakota State University.

Redsen was selected from the progeny of a cross made in 1974 between ND8978-3R and ND9403-20R. In this cross, Bison (2) is a parent of ND9403-20R. Both parents were selected on the basis of smoothness and deep red skin color. The seedling tuber was grown in the field at the Exper-

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iment Station at Langdon, North Dakota in 1975, at which time the original selection was made.

The pedigree is as follows:

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Redsen

{ ND8978-3R } B5219-1R
{          } ND4524-7R
{          } Chieftain
{ ND8078-9R } ND6053-1R
{          } ND7522-2R
{         } ND6053-1R
{ ND8647-3R } ND4652-4R
{          } ND5124-1R
{         } Bison
{      } ND9403-20R
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Description

PLANTS—Medium upright. Stems: medium thick. Nodes: pigmented. Internodes: pigmented. Wings: waved double, green and pigmented. Stipules: small, spreading green. Leaves: medium, open, slightly pubescent. Terminal Leaflets: medium, decurrent, and slightly asymmetrical; mean length 73.7 ± 8.4 mm; mean width 57.4 ± 6.7 mm; index width to length 14.2 ± 1.1 mm. Primary Leaflets: medium ovate, generally 3 pairs; mean length 66.19 ± 9.7 mm; mean width 40.8 ± 5.4 mm; index width to length 16.2 ± 1.2 mm. Petioles: slightly pigmented. Secondary Leaflets: several. Tertiary Leaflets: few, between primary leaflets.


TUBERS—round oval, mean length: 77.8 ± 15.0 mm; mean width 66.5 ± 8.5 mm; mean thickness 58.3 ± 6.7 mm. Indices: width to length 86.0 ± 0.6 mm; thickness to length 77.5 ± 0.6 mm; thickness to width 87.9 ± 0.5 mm. Skin: smooth, thin, red. Eyes: shallow. Eyebrows: slightly curved. Flesh: white. Sprouts: red. Dormancy: quite short. Maturity: medium early.