



CO98067-7RU

Pedigree: Silverton Russet x TC1675-1

Developer: Colorado State University

Plant Variety Protection:

Seed Availability: San Luis Valley Research Center

Incentives for Production

- ★ High yield potential
- ★ High percentage US No. 1 tubers
- ★ Resistant to internal and external grade defects

General Characteristics

Usage: Dual purpose with fresh and processing potential

Plant: Medium vine size, semi-erect plants with white flowers

Maturity: Medium-early

Tubers: Long tubers with medium-heavy russet skin and white flesh. Tubers are resistant to hollow heart, blackspot bruise, second growth, growth crack and shatter bruise.

Yield Potential: High (avg. 476 cwt/acre) and a high percentage of US No. 1 tubers (84%)

Specific Gravity: Medium (1.078)

Detailed data summary for CO98067-7RU.

Variable	# Trials	Mean	Range	
Total Yield (Cwt/A)	6	476	403-560	
Yield US #1 (Cwt/A)	6	402	337-500	
% US #1	6	84	73-89	
Yield >10 oz (Cwt/A)	6	81	51-104	
Yield <4 oz (Cwt/A)	6	71	41-127	
% External Defects ¹	6	0.8	0.1-1.6	
% Hollow Heart ²	6	0.0	0.0-0.0	
% Stand	6	98	95-100	
Emergence Uniformity	6	3.3	3.0-3.8	
Vine Vigor ³	6	3.3	2.8-4.0	
Stems/Plant	6	3.4	2.0-4.4	
Vine Size ⁴	6	3.3	3.0-4.0	
Vine Maturity ⁵	6	2.5	2.0-3.0	
Blackspot ⁶	Bud End	7	4.9	4.4-5.0
	Stem End	7	4.8	4.5-5.0
	Average	7	4.9	
Weight Loss ⁷	7	3.4	1.4-4.9	
Dormancy ⁸	7	70	56-87	
Enzymatic Browning ⁹	7	4.5	4.0-4.8	
Specific Gravity	7	1.078	1.075-1.080	
Fry Color ¹⁰	Harvest	7	1.1	0.0-2.0
	Storage	7	2.1	1.0-3.0
Fry Texture ¹¹	Harvest	7	3.4	3.0-4.0
	Storage	7	3.3	3.0-4.0

Refer to footnotes on next page.

Footnotes for Table on previous page:

- ¹ Percent external defects based on the proportion of the total sample weight with significant defects.
- ² Percent hollow heart calculated as follows: (Weight of tubers >10 ounces with defects/total sample weight) x 100.
- ³ Vine vigor is rated on a 1 to 5 scale, with 5 indicating very vigorous vines.
- ⁴ Vine size is rated on a 1 to 5 scale, with 5 indicating very large vines.
- ⁵ Vine type is rated on a 1 to 5 scale, with 5 indicating very upright vines.
- ⁶ Vine maturity is rated on the following basis: 1=very early; 2=early; 3=medium; 4=late; and 5=very late.
- ⁷ Blackspot was rated on a 1 to 5 scale, with 5 indicating no discoloration.
- ⁸ Tubers were stored at 45F for approximately 3 months.
- ⁹ Days from harvest to first visible growth. Tubers were stored at 45F.
- ¹⁰ Degree of darkening rated at 60 minutes after slicing tubers lengthwise. Rated on a 1 to 5 scale, with 5 indicating no discoloration.
- ¹¹ Chip color was rated using the Snack Food Association 1-5 scale. Ratings of ≤ 2.0 are acceptable. Reconditioned samples were stored at 60F for three weeks. Fry color was rated on a 0 to 4 scale, with 0 being the lightest or best color. Color ratings of ≤ 2.0 are acceptable.
- ¹² Fry texture was rated on a 1 to 5 scale, with 5 indicating the cooked flesh was dry and mealy and 1 representing a soggy, wet texture.