

CO00277-2R

Pedigree: CO89097-2R x CO94065-2R

Developer: Colorado State University

Plant Variety Protection:

Seed Availability: San Luis Valley Research Center

General Characteristics

Usage: Fresh market

Plant: Medium vine size, semi-erect plants with dark red-purple flowers

Maturity: Early

Tubers: Round tubers with red skin and white flesh. Tubers are resistant to hollow heart, growth crack and second growth.

Yield Potential: High (avg. 427 cwt/acre) and 79% of US No. 1 tubers

Specific Gravity: Medium (1.080)

Incentives for Production

- \star High yield potential
- \star Attractive tuber type
- ★ Early maturity

Variable		# Trials	Mean	Range
Total Yield (Cwt/A)		6	427	380-479
Yield US #1 (Cwt/A)		6	333	287-390
% US #1		6	78	69-85
Yield >10 oz (Cwt/A)		6	66	39-110
Yield <4 oz (Cwt/A)		6	90	54-127
% External Defects ¹		6	0.7	0.0-1.8
% Hollow Heart ²		6	0.5	0.0-1.8
% Stand		6	98	93-100
Emergence Uniformity		6	3.0	2.5-3.8
Vine Vigor ³		6	3.0	2.8-3.3
Stems/Plant		6	4.6	3.3-5.7
Vine Size ⁴		6	2.8	2.3-3.0
Vine Type ⁵		6	2.3	2.0-2.5
Vine Maturity ⁶		6	1.7	1.3-2.0
Blackspot ⁷	Bud End	. 7	4.4	3.9-5.0
	Stem End		4.3 4.4	3.7-5.0
Weight Loss ⁸	Average	7	5.2	2.7-8.3
Pormancy ⁹		7	61	47-77
Enzymatic Browning ¹⁰		7	4.3	3.6-4.6
Specific Gravity		7	1.080	1.075-1.084
Fry Color ¹¹	Harvest Storage		3.0 3.9	2.0-4.0 3.0-4.0
Fry Texture ¹²	Harvest Storage		2.6 2.4	2.0-3.0 2.0-3.0

Detailed data summary for CO00277-2R.

Refer to footnotes on next page.

Footnotes for Table on previous page:

¹Percent external defects based on the proportion of the total sample weight with significant defects.

²Percent hollow heart calculated as follows: (Weight of tubers >10 ounces with defects/total sample weight) x 100.

³Vine vigor is rated on a 1 to 5 scale, with 5 indicating very vigorous vines.

⁴Vine size is rated on a 1 to 5 scale, with 5 indicating very large vines.

⁵Vine type is rated on a 1 to 5 scale, with 5 indicating very upright vines.

⁶Vine maturity is rated on the following basis: 1=very early; 2=early; 3=medium; 4=late; and 5=very late.

⁷Blackspot was rated on a 1 to 5 scale, with 5 indicating no discoloration.

⁸Tubers were stored at 45F for approximately 3 months.

⁹Days from harvest to first visible growth. Tubers were stored at 45F.

¹⁰Degree of darkening rated at 60 minutes after slicing tubers lengthwise. Rated on a 1 to 5 scale, with 5 indicating no discoloration.

¹¹Chip 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.

¹²Fry 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.