

Red Luna (CO97233-3R/Y)

Pedigree: CO94218-1 x VC0967-5

Developer: Colorado State University

Plant Variety Protection: In process

Seed Availability: San Luis Valley Research Center

Incentives for Production

- ★ High yield potential
- ★ Attractive red skin and yellow flesh

General Characteristics

Usage: Fresh market specialty

Plant: Medium vine size, with reddish-purple flowers

Maturity: Medium

Tubers: Oblong tubers with red skin and yellow flesh. Tubers are resistant to blackspot

bruise and shatter bruise.

Yield Potential: High (477 cwt/acre) and 73% of US No. 1 tubers

Specific Gravity: Medium (1.082)

Detailed data summary for Red Luna.

Variable		# Trials	Mean	Range
Total Yield (Cwt/A)		7	477	409-524
Yield US #1 (Cwt/A)		7	351	294-425
% US #1		7	73	61-82
Yield >10 oz (Cwt/A)		7	83	42-133
Yield <4 oz (Cwt/A)		7	108	67-162
% External Defects 1		7	4.0	2.5-6.1
% Hollow Heart ²		7	2.3	0.3-5.2
% Stand		7	90	80-95
Emergence Uniformity		7	3.1	3.0-3.5
Vine Vigor ³		7	3.6	3.3- 4.0
Stems/Plant		7	3.8	2.6-4.6
Vine Size ⁴		7	3.0	2.8-3.3
Vine Type ⁵		7	2.0	2.0-2.3
Vine Maturity ⁶		7	3.3	2.8-4.0
Blackspot ⁷	Bud End Stem End		4.7 4.0	4.2-5.0 3.2-5.0
	Average		4.4	3.2-3.0
Weight Loss ⁸		8	3.1	1.6-6.0
Dormancy 9		8	74	61-94
Enzymatic Browning 10		8	4.1	3.6-4.6
Specific Gravity		8	1.082	1.077-1.090
Fry Color 11	Harvest Storage		1.3 2.0	0.0-2.0 1.0-3.0
Fry Texture 12	Harvest Storage		2.8 2.6	2.0-3.0 2.0-3.0

Refer to footnotes on next page.

Footnotes for Table on previous page:

- Percent 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.
- Days 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 \leq 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 \leq 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.