

# MICHIGAN STATE UNIVERSITY

## MSV093-1Y

**Parentage:** McBride x MSP408-14Y

**Developers:** Michigan State University and the MSU AgBioResearch.

**Plant Variety Protection:** To Be Applied For.

**Strengths:** MSV093-1Y is a high yield potential yellow-flesh breeding line with an attractive, round tuber shape. This line has demonstrated excellent high yield potential in replicated trials at the

MSU Montcalm Research Center and on grower field trials throughout Michigan. This yellow flesh line has excellent internal quality (few defects) and a low incidence of blackspot bruise. MSV093-1Y also has moderate scab tolerance. MSV093-1Y has a strong vine and a mid-early season maturity.



**Incentives for production:** High yield potential with an attractive tuber shape with good yellow flesh with excellent internal quality.

### ***Morphological Characteristics:***

**Plant:** Medium height vine, semi-erect with a balance between stems and foliage visible, and flowers.

**Tubers:** Round tubers with a smooth to lightly netted, yellow colored skin. Tubers have an attractive yellow flesh with a low incidence of internal defects.

### ***Agronomic Characteristics:***

**Maturity:** Mid-season maturity.

**Tubers:** Round tubers with a yellow skin and an attractive yellow flesh.

**Yield:** High yield under irrigated conditions, greater than Atlantic and Snowden.

**Specific Gravity:** Medium specific gravity (1.070 in Michigan).

**Culinary Quality:** Excellent culinary quality.

**Foliage:** Medium to tall, semi-erect vine.

**Diseases:** Moderate tolerance to common scab (*Streptomyces scabies*).

**Storability:** Medium dormancy comparable to Atlantic.



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## Bonafide Data Summary

Category	# Trials	Average	Range
US # 1 Yield (Cwt/A)	29	421	92 - 712
Total Yield (Cwt/A)	29	487	166 - 766
% US No. 1	29	85	47 - 95
% B Size <sup>1</sup>	29	9	3 - 42
% A Size <sup>1</sup>	29	79	39 - 95
% Oversize <sup>1</sup>	29	6	0 - 30
% Pickouts	29	6	0 - 43
Specific Gravity	29	1.068	1.053 - 1.079
Common Scab <sup>2</sup>	30	0.7	0 - 3
Vine Vigor <sup>3</sup>	28	3.2	1 - 5
Vine Maturity <sup>4</sup>	30	3.6	1.5 - 5
Yellow Flesh Color <sup>5</sup>	19	2.4	1 - 3.5
Yellow Skin Waxiness <sup>6</sup>	19	2.1	1 - 3
% Hollow Heart	29	2	0 - 20
% Vascular Discoloration	29	12	0 - 80
% Internal Brown Spot	29	1	0 - 30
% Brown Center	29	1	0 - 20

<sup>1</sup>B size < 1 7/8 in, A size 1 7/8 to 3 1/4 in, Oversize > 3 1/4 in

<sup>2</sup>Common Scab Rating Scale from 0 (no scab) to 5 (severe scab)

<sup>3</sup>Vine Vigor Rating Scale from 1 (slow emergence) to 5 (early emergence)

<sup>4</sup>Vine Maturity Rating Scale from 1 (dead vines) to 5 (vigourous, flowering vines)

<sup>5</sup>Yellow flesh color from 1 (cream) to 5 (dark yellow)

<sup>6</sup>Yellow skin waxiness from 1 (buff) to 5 (very smooth)

This variety was evaluated between 2015 and 2021