

# Vanguard Russet (TX08352-5RU)

**Pedigree:** TXA549-1RU x AOTX98137-1RU

**Developers:** crossed and selected by Texas A&M University

**Plant Variety Protection:** In Process

## MORPHOLOGY

**Plant:** Semi-erect growth habit

**Tubers:** Uniform oblong tubers, small to medium tuber size, medium russet skin

## AGRONOMICS

**Maturity:** Medium

**Yield Potential (US#1) cwt/A\*:** 396 (103 - 624)

**Utilization:** Fresh market, early processing

**Specific Gravity\*:** 1.063 (1.044 - 1.074)

**Seed Spacing:** 10 to 11 inch in-row seed spacing is recommended

**Dormancy:** Moderate

**Strengths:** Good type and uniform tuber shape, resistant to common scab and Fusarium dry rot. Few oversize tubers.

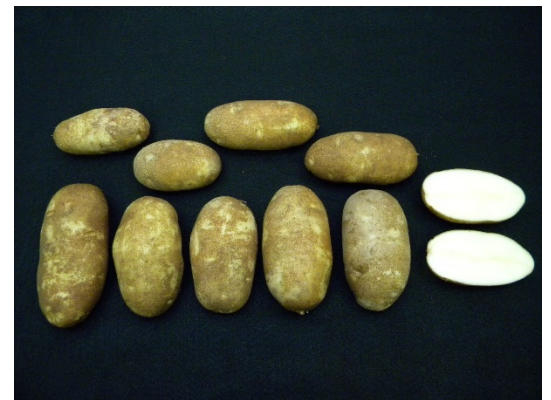
**Weaknesses:** Lower SG and solids, susceptible to Verticillium wilt and early die, shatter bruise.

## UTILIZATION

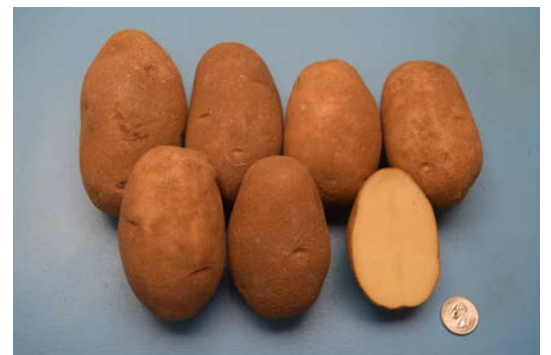
This fresh market russet has early process potential but is not recommended for processing out of storage. In Michigan, at 10 inch in-row spacing, it has an average yield potential with few oversized tubers and over 10 percent undersize potatoes. Higher yield was observed under field management practices consistent with Russet Norkotah. The skin finish is more similar to that of Russet Burbank, while the tubers are oblong and not as long as Russet Norkotah.



**MICHIGAN STATE**  
**UNIVERSITY**



Tubers from the 2016 Walther Silverton Russet management trial



Tubers from the 2019 Walther Russet Norkotah management trial

\*Data reflects the mean with range in parenthesis from 45 trials in four years.

Prepared Trina Zavislan, Chris Long, and Damen Kurzer, MSU Potato Outreach Program ([canr.msu.edu/potatooutreach](http://canr.msu.edu/potatooutreach)) to inform Michigan growers on variety performance.

# Vanguard Russet Data Summary

Category	# Trials	Average	Range
US # 1 Yield (Cwt/A)	45	396	103 - 624
Total Yield (Cwt/A)	45	489	225 - 735
% US No. 1	45	79	45 - 95
% B Size <sup>1</sup>	45	14	3 - 49
% A Size <sup>1</sup>	45	69	45 - 92
% Oversize <sup>1</sup>	45	9	0 - 30
% Pickouts	45	6	0 - 24
Specific Gravity	45	1.063	1.044 - 1.074
Common Scab <sup>2</sup>	44	0.3	0.0 - 1.5
Vine Vigor <sup>3</sup>	44	2.7	1.0 - 4.5
Vine Maturity <sup>4</sup>	43	2.4	1.0 - 4.0
% Hollow Heart	45	2	0 - 50
% Vascular Discoloration	45	12	0 - 60
% Internal Brown Spot	45	2	0 - 10
% Brown Center	44	1	0 - 50

<sup>1</sup>B size < 4 oz., A size 4 - 10 oz., Oversize > 10 oz.

<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)

This variety was evaluated between 2016 and 2019.