

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*: 375 (103 - 624)

Utilization: Fresh market, early processing

Specific Gravity*: 1.063 (1.044 - 1.075)

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

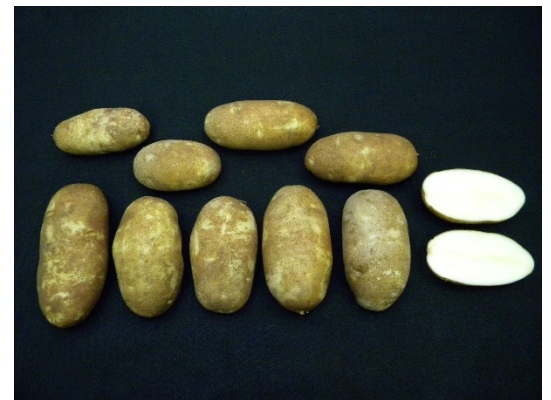
This fresh market russet has early process potential but is not recommended for processing out of storage. In Michigan, at 10 inch in-row spacing, it has an average yield potential with few oversized tubers and over 10 percent undersize potatoes. Higher yield was observed under field management practices 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.

*Data reflects the mean with range in parenthesis from 58 trials in six years.

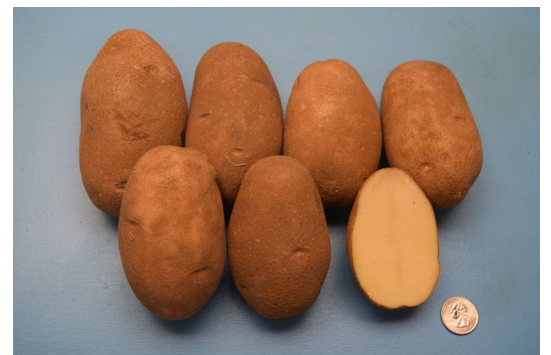
Prepared Trina VanAtta, Chris Long, and Damen Kurzer, MSU Potato Outreach Program (canr.msu.edu/potatooutreach) to inform Michigan growers on variety performance.



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Tubers from the 2016 Walther Silverton Russet management trial



Tubers from the 2019 Walther Russet Norkotah management trial

Vanguard Russet Data Summary

Category	# Trials	Average	Range
US # 1 Yield (Cwt/A)	58	375	103 - 624
Total Yield (Cwt/A)	58	469	225 - 735
% US No. 1	58	79	45 - 95
% B Size ¹	58	15	3 - 49
% A Size ¹	58	69	45 - 92
% Oversize ¹	58	10	0 - 30
% Pickouts	58	6	0 - 24
Specific Gravity	58	1.063	1.044 - 1.075
Common Scab ²	57	0.2	0.0 - 1.5
Vine Vigor ³	57	2.8	1.0 - 4.5
Vine Maturity ⁴	56	2.3	1.0 - 4.0
% Hollow Heart	58	1	0 - 50
% Vascular Discoloration	58	8	0 - 60
% Internal Brown Spot	58	1	0 - 10
% Brown Center	57	0	0 - 50

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

²Common Scab Rating Scale from 0 (no scab) to 5 (severe scab)

³Vine Vigor Rating Scale from 1 (slow emergence) to 5 (early emergence)

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

This variety was evaluated between 2016 and 2021