

NY152

Pedigree: B38-14 x Marcy

Developers: Cornell University

Plant Variety Protection: In Progress

MORPHOLOGY

Plant: Intermediate to large vine, white flowers

Tubers: Round to oval, intermediate depth eyes

AGRONOMICS

Maturity: Medium to late maturity

Yield Potential (US#1) cwt/A*: 510 (296 - 833)

Specific Gravity*: 1.080 (1.068 - 1.096)

SNAC OTF Chip color*: 1.2 (1.0 - 1.5)

Seed Spacing: 8-9"

Dormancy: Full season

Strengths: Tolerance to common scab, low incidence of raw internal tuber defects, very minor stem end reaction, above average tuber set and high yield potential. Excellent fry color from 48°F in first three months of storage.

Weaknesses: Thinner skin, average to below average specific gravity, susceptible to Ro1 golden nematode.

UTILIZATION

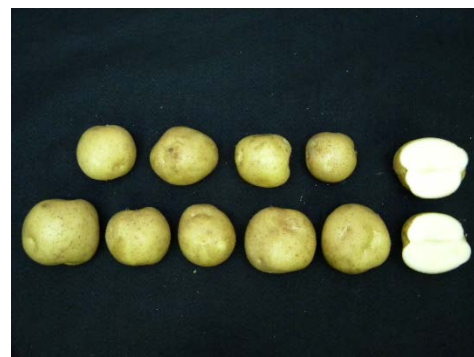
NY152 should be grown with average (10 in.) in row spacing to promote a smaller tuber size profile and decrease the percentage of oversized tubers. This variety has a high yield potential under Snowden fertility management strategy with four nitrogen applications totaling 250 to 300 units during the growing season. NY152 maintains high chip quality during storage with an airflow rate of 1 to 1.2 cfm/cwt.

*Data reflects the mean with range in parenthesis from 29 trials over 4 years

Prepared Trina Zavislan, Chris Long, and John Calogero, MSU Potato Outreach Program (canr.msu.edu/potatooutreach) to inform Michigan Growers on variety performance.



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NY152 tubers grown in 2017



2017 Bulk Planting at Crooks Farms, Inc. NY152 (left) and MSX540-4



Chips processed on January 9th, 2018 from 48°F

NY152 Data Summary

Category	# Trials	Average	Range
US # 1 Yield (Cwt/A)	29	510	296 - 833
Total Yield (Cwt/A)	29	591	391 - 892
% US No. 1	29	85	61 - 96
% B Size ¹	29	13	2 - 39
% A Size ¹	29	82	61 - 94
% Oversize ¹	29	3	0 - 12
% Pickouts	29	1	0 - 5
Specific Gravity	29	1.080	1.068 - 1.096
SNAC Chip Color OTF ²	29	1.2	1.0 - 1.5
Common Scab ³	24	1.0	0.0 - 2.5
Vine Vigor ⁴	29	3.0	1.0 - 4.0
Vine Maturity ⁵	29	3.0	1.5 - 4.0
% Hollow Heart	28	2	0 - 30
% Vascular Discoloration	28	0	0 - 1
% Internal Brown Spot	28	1	0 - 17
% Brown Center	28	1	0 - 10

¹B size < 1 7/8", A size 1 7/8" - 3 1/4", Oversize > 3 1/4"

²Out of the Field Rating from 1 (excellent) to 5 (very poor), values < 2 are acceptable

³Common Scab Rating Scale from 0 (no scab) to 5 (severe scab)

⁴Vine Vigor Rating Scale from 1 (slow emergence) to 5 (early emergence)

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

This variety was evaluated between 2014 and 2017