

MICHIGAN STATE UNIVERSITY

Mackinaw (MSX540-4)

Parentage: Saginaw Chipper x Lamoka

Developers: Michigan State University and the MSU AgBioResearch.

Plant Variety Protection: To Be Applied For.



Strengths: MSX540-4 is a chip-processing potato with resistance to potato virus Y (PVY), late blight (*Phytophthora infestans*), and tolerance to common scab (*Streptomyces scabies*). This variety has average yield with a high specific gravity, and a high percentage of A-size tubers with an attractive, uniform shape. MSX540-4 has a strong vine and a mid- to late-season maturity, and has demonstrated excellent long-term storage chip-processing quality. MSX540-4 has performed well in multiple locations in the PotatoesUSA National Chip Processing Trials (NCPT).

Incentives for production: Long-term chip-processing quality with resistance to PVY and late blight, and tolerance to common scab.

Morphological Characteristics:

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

Tubers: Round tubers with lightly netted, tan colored skin. Tubers have a creamy-white flesh with a low incidence of internal defects.

Agronomic Characteristics:

Vine Maturity: Mid- to late-season maturity.

Tubers: Smooth shaped tubers with lightly netted, tan colored skin and a creamy-white flesh.

Yield: Average yield under irrigated conditions, with uniform A-size tubers.

Specific Gravity: Averages similar to above Snowden in Michigan.

Culinary Quality: Chip-processes from short to long-term storage.

Diseases: Resistant to PVY and late blight (*Phytophthora infestans*), tolerant to common scab (*Streptomyces scabies*).



College of
Agriculture and
Natural Resources

Department of
Plant, Soil and
Microbial Sciences

1066 Bogue St.
A286 Plant and Soil
Science Bldg.
Michigan State University
East Lansing, MI
48824-6254

517-355-0271

Contact:

David S. Douches, Ph.D.
Professor and Potato Breeder
[http://potatobg.css.msu.edu/
douchesd@msu.edu](http://potatobg.css.msu.edu/douchesd@msu.edu)