

New York Certified Seed Potatoes 2018 Crop Directory

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**SEED POTATO CERTIFICATION
IN NEW YORK**

The primary objectives of seed potato certification are to maintain and make available to the public dependable sources of top quality seed. The New York Certification program, which originated in 1913, represents a voluntary agreement between the seed grower and the certifying agency. The NYS College of Agriculture & Life Sciences (CALs) at Cornell University, designated by the Commissioner of Agriculture as the official seed certifying agency in the state of New York, works in cooperation with the NYS Department of Agriculture & Markets in carrying out the objectives of seed certification. Seed growers are members of the NY Seed Improvement Cooperative, Inc. Program administration and record keeping are conducted by the New York Seed Improvement Project in CALs' Plant Breeding and Genetics Department.

The New York Certification program is a limited generation program with two classes of certified seed, "Foundation" and "Certified". The data listed in this directory represent seed potato acreage *entered* for certification this year. In order to be eligible for sale as certified seed, seed potatoes must meet the minimum requirements described in the standards for seed potato certification (1 NYCRR Parts 106 and 107). These requirements include:

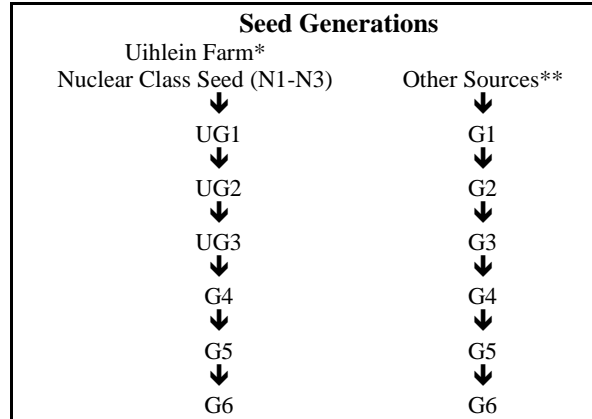
- Use of pretested and approved seed stocks.
- A minimum of 2 field inspections.
- A bin inspection of tubers after harvest.
- A winter test.
- A Federal-State shipping point inspection to ensure conformity with New York certified seed grades.

Only seed meeting all of the requirements for certification and bearing official tags or certificates issued by the certification agency may be represented for sale as "Foundation" or "Certified" seed.

<u>TOLERANCES FOR CERTIFIED SEED *</u>			
<u>Factor</u>	<u>Summer</u>	<u>Winter Test</u>	
		<u>F</u>	<u>C</u>
Leaf roll.....	1.0	0.5	5.0
Mosaic	1.0	0.5	5.0
Spindle Tuber.....	0.1	0.5	5.0
Total Virus and Spindle Tuber.....	2.0	0.5	5.0
Fusarium and Verticillium Wilt	5.0	--	--
Varietal Mixture.....	0.25	0.25	0.25
Ring Rot	0.0	0.0	0.0

*Seed lots passing inspection in New York do not exceed the tolerances listed based on visual inspections. Seed lots are classified as Foundation (F) or Certified (C) based on winter test results.

The seed classes designated by generation (G) of production on a seed grower's farm are shown below.



* U = Uihlein Farm source noted for first 3 generations;

** Other sources will be designated by appropriate field generation depending upon source. ALL sources must originate from pathogen-tested, tissue culture sources and be G5 or higher seed class to be eligible for entry at planting. All seed lots must be winter tested.

Bacterial ring rot has NOT been detected in any seed lot of any seed grower since 1987.

-- DISCLAIMER OF WARRANTY --

The New York Seed Improvement Project, the New York State College of Agriculture and Life Sciences of Cornell University, and the New York State Department of Agriculture and Markets make no expressed or implied warranties or representations as to the freedom from disease or to the quality or quantity of the crop produced from certified seed, including merchantability or fitness for a particular purpose. The only representation is that the seed potatoes were produced and inspected under the seed potato certification rules and regulations of the State of New York (1 NYCRR Parts 106 and 107).

THE UIHLEIN FARM OF CORNELL UNIVERSITY

The Uihlein Farm of Cornell University, the official seed potato farm in New York State, is located at an elevation of 2,100 feet in the scenic Adirondack Mountains, approximately 2 miles south of the village of Lake Placid. This well-isolated farm consists of approximately 175 tillable acres. It was donated to Cornell University in the fall of 1961 by Mr. and Mrs. Henry Uihlein II of Heaven Hill Farm, Lake Placid, for the express purpose of producing basic potato seed stocks for the New York potato industry.

In 1977, the Uihleins provided the funds to construct the Henry Uihlein II Laboratory, a facility consisting of a laboratory and an adjoining 125-foot greenhouse. This facility is used to develop disease-free nuclear seed stocks of commercial varieties along with selections from Cornell and other State or Federal potato breeding programs through pathogen-testing of seed originating from tissue cultured plantlets. Plantlets grown in test tubes are thoroughly screened for disease-causing microorganisms including bacteria, fungi, numerous viruses and the potato spindle tuber viroid.

All planting stocks produced on the Uihlein Farm originate from pathogen-tested tissue culture materials. These plantlets are transplanted to pots in the greenhouse or directly to soil for tuber production, and the resultant progeny are used to produce basic planting stocks for the New York seed potato industry. Over one hundred potato varieties are maintained in the Uihlein Farm tissue culture collection, with more than 80 varieties produced under contract. The New York Seed Improvement Cooperative's Potato Certification Committee serves in an advisory capacity in determining the policies regarding potato varieties and the production and allocation of Uihlein seed.

POTATO VARIETIES & SELECTIONS ENTERED FOR CERTIFICATION IN 2018

08-407	HZC-07-6049	Peter Wilcox
7FOUR7	HZC-07-6093	Pike
Adirondack Blue	HZC-07-6099	Purple Majesty
Adirondack Red	Irish (06-363)	Purple Pelisse
Algonquin (NY141)	Jennifer	Purple Peruvian
All Blue	Joly	Reba
AmaRosa	Juliette	Red LaSoda#10
Amey	Katahdin	Red Maria
Andover	Kennebec	Red Pontiac
Atlantic	Keuka Gold	Red Thumb
Austrian Crescent	King Harry	Redsen
Baltic Rose	La Ratte	Rideau
Banana	Lamoka	Rose Valley
Belmonda	Lehigh	Salem
Butterfly	Magic Molly	Satina
Carola	Moulin Rouge	Sebago
Castile	Natascha	Sifra
Chieftain	Nautilus	Snowden
Chippewa	NorDonna	Soraya
Daisy Gold	Norland-Dark Red	Sunshine
Early Ohio	NY79	Superior
Elba	NY118	Swing
Eva	NY140	Tacoma
Fenway Red	NY149	Tessa
Fleure Bleue	NY151	Tokio
French Fingerling	NY152	Upstate Abundance
G06SC099001	NY155	U.S. Blue
Genesee	NY157	Waneta
German Butterball	Papa Cacho	Wendy
Goldrush	Paroli	Yukon Gold

VARIETY/SELECTION DESCRIPTIONS

7FOUR7 is a medium early, high yielding table potato with white flesh and uniform large tubers. Its shallow eyes and smooth skin result in an attractive appearance. No discoloration before or after cooking. Resistant against bruising, growth cracks, hollow heart, common scab, powdery scab, tuber blight, PVY^{ntmm} Ro 1, 4 and potato wart disease race 1.

Adirondack Blue. Early to mid-season specialty tablestock. Tubers have dark purple skin and purple flesh. Scab susceptible, Cornell University.

Adirondack Red. Specialty tablestock. Tubers are long with reddish-purple skin and red flesh. Susceptible to silver scurf. Scab reaction similar to Atlantic, Cornell University.

Algonquin (NY141). Mid season tablestock with attractive tubers. Marketable yields have exceeded Atlantic in Cornell trials. Early yields exceed Superior. Pickout due to knobby tubers has been 2-3%. Low frequency of internal defects. Tubers remain white after boiling and do not slough. Tuber dormancy is two weeks longer than Atlantic. Moderately resistant to common scab. Resistant to the golden nematode (Ro1).

All Blue. Medium to late season, specialty tablestock. Tubers oblong, shallow eyes, blue purple skin, and deep purple flesh, small to medium size, heavy set and excellent yield. Resistances and susceptibilities unknown.

AmaRosa. Mid-season fingerling potato with red skin and red flesh. Tubers are smooth with well distributed, shallow eyes. Very high culinary quality; ideal for microwaving, frying or baking. Retains color when chipped. Can skin during harvest. Brown center and hollow heart are rare. Medium storage capability and medium to high fertility requirements. Susceptible to Metribuzin. PVP Certificate #201100297, State of Oregon.

Amey. Late maturity, white-fleshed russet. Tubers oblong, occasionally long. Excellent baking quality, potential processor. Resistant to race A of the golden nematode, Verticillium wilt, powdery scab, and common scab. Susceptible to potato leafroll virus, late blight, and early blight.

Andover. Early season tablestock and chipping variety. Tubers spherical with slightly textured skin. Good cooking qualities and specific gravity. Excellent chip color from 45° storage. Relatively free from internal defects. Resistant to scab and golden nematode.

Austrian Crescent. Late season, specialty tablestock. Long, crescent-shaped fingerling tubers with smooth, tan skin and light yellow flesh. Resistances and susceptibilities are unknown.

Banana. Late maturing, specialty tablestock. Tubers are small, banana-shaped with pale yellow skin and flesh. Good scab resistance. Susceptible to PVY.

Carola. Mid-season specialty tablestock. Moderate to heavy set with good yield of medium to large oblong tubers with golden skin and pale yellow flesh. Excellent cooking quality. Short to medium dormancy. Good scab resistance, moderate resistance to tuber late blight.

Castile. Full season table or processing. Good yield of medium to large tubers that are oblong, with medium shallow eyes, white skin and flesh. Specific gravity equal to Superior. Resistant to golden nematode, pink eye, and Fusarium.

Chieftain. Mid-season tablestock. Tubers round to oblong, shallow eyes, attractive red skin. Yield >Norland. Specific gravity similar to Norland. Moderately resistant to scab.

Chippewa. Medium-early tablestock. Tubers white, with smooth skin, white flesh, shallow eyes, and oval flattened shape. Heavy setter and small tubers under dry conditions. Scab susceptible.

Early Ohio. Early maturity, heirloom tablestock variety. Large tubers with smooth, tan skin and white flesh.

Elba. Very late tablestock. Yields high both in muck and upland, specific gravity medium range. Tubers oval to round, netted skin, white flesh. Resistant to golden nematode, early and late blight, Verticillium wilt and scab.

Eva. Mid-season tablestock and chipstock. Very nice plant type. Tubers are medium in size, round in shape, with very bright blemish-free skin and are almost free from pickouts and internal defects. Trial yields have been 116% of Atlantic, 105% of Katahdin and 91% of Allegany. Tuber dormancy is 6 weeks longer than Katahdin and Monona. Resistant to early blight, golden nematode Ro1, PVY and PVX.

French Fingerling. Specialty tablestock. Fingerling with pink skin and yellow flesh. Resistances and susceptibilities unknown.

Genesee. Late maturing tablestock. Yield and specific gravity similar to Monona. Tubers round, with white, bright skin, white flesh. Resistant to golden nematode, early blight, and scab.

Goldrush. Midseason fresh market and processing. Oblong to long russet with very white flesh. High yielding. Resistant to hollow heart, verticillium wilt and silver scurf. U.S. Patent No. 5,434,343, NDSU Research Foundation.

Juliette. Early tablestock. Good yield of long oval, yellow skinned and fleshed tubers. Resistance to common scab and golden nematode. PVP #200100104, GERMICOPA SAS.

Katahdin. Late season tablestock. Yield moderately high and specific gravity > Monona. Tubers round, shallow eyes, smooth buff skin and white flesh. Resistant to PVY and PVA, potato leafroll virus. Drought tolerant.

Kennebec. Mid-season to late chip and tablestock. Plants very large, blossoms white. Tubers white, elliptical to oblong, with shallow eyes. Sets few tubers so should be spaced closely. Subject to sunburn, second growth, and growth cracks under adverse conditions. Susceptible to scab. Field resistant to late blight.

Keuka Gold. Mid-late season tablestock, possibly chipstock from 50° storage. Pale yellow flesh, scurfy skin. Very high yields of large round tubers, very few pickouts. Small percentage of internal defects upstate, but internal necrosis on Long Island. Scab resistance like Superior. Specific gravity like Katahdin. Resistant to golden nematode.

La Ratte. Late maturity, specialty tablestock fingerling with smooth buff skin and pale yellow flesh. Resistances and susceptibilities unknown.

Lamoka (NY139). Late maturity chipstock. Large tubers with attractive shape and moderately textured skin. Yields similar to Atlantic. Specific gravity has averaged 0.01 less than Atlantic. Tuber dormancy is one week longer than Atlantic. Good chip color from 44F storage. Moderate resistance to common scab. Resistant to golden nematode (Ro1). U.S. Plant Variety Protection (PVP-1994) Certificate #200900364, Cornell University.

Lehigh (NY126). Mid-late season tablestock. Large tubers with scurfy skin and appealing yellow flesh. Good yields with few pickouts and low levels of internal defects. Good boiling quality. Attractive vines with white flowers. Scab resistance is similar to Pike. Resistant to golden nematode (Ro1).

NorDonna. Medium maturity tablestock. Dark red, oval to round tubers with shallow eyes. White flesh. Medium-high yield. Low incidence of hollow heart. Scab tolerant. PVP #9600243, NDSU Research Foundation.

Norland. Early-medium season tablestock. Good yield and low specific gravity. Tubers are round to flesh. Resistant to common scab, leaf roll, PVA, PVY, and wart. "Red" and "Dark Red" strains of Norland possess similar characteristics and have been selected for tuber skin color. These strains are not distinguishable by normal inspection procedures.

NY79. Early tablestock. Early yields equal to Superior, full season yields equal to Monona, and low specific gravity. Tuber large, round, white flesh, with a white scurfy skin. Resistant to scab and golden nematode.

NY118. Late season tablestock. Tubers are light red with slightly textured skin. Yield, set, and size is similar to Chieftain. Dormancy and scab resistance better than Chieftain. Resistance to golden nematode (Ro1).

NY 140. Late season, dual purpose chip and tablestock. Large tubers with a lightly textured skin. Chip quality is very good, similar to Snowden. Yield is very good, greater than Atlantic in all test locations. Tuber dormancy is about six weeks longer than Atlantic. Nice vines, white flowers with few fruit. NY 140 is resistant to races Ro1 and Ro2 of the golden nematode.

NY149. Mid-late season yellow-fleshed tablestock with slightly-textured skin and pink eyes.

NY151. Late season, white tablestock with relatively smooth skin.

NY152. Late season chipstock, excellent chip color.

NY155. Early maturing, pink-skinned tablestock.

NY157. Mid-late season chipstock.

Peter Wilcox (B1816-5). Mid-season specialty tablestock. Tubers oblong to round with smooth purple skin and yellow flesh. Medium gravity with small tuber size. Yields low to moderate with US#1 yields similar to Dark Red Norland in ME trials. Susceptibility to skinning may be a problem. Susceptible to silver scurf. Very good for boiling and roasting.

Purple Pelisse (POR01PG16-1) is a mid-season specialty potato with purple skin and dark purple flesh. An excellent tasting colored fingerling, high in antioxidants, ideal for fresh fingerling market with few tuber defects. PVP Certificate #201000299, State of Oregon.

Reba. Mid-late season chip and tablestock. High yields with specific gravity slightly greater than Monona. Tubers early sizing, large, white skin and flesh. Resistant to golden nematode and scab.

Red LaSoda, Selection #10. Mid-season, high yielding, tablestock. A line selection from a mutation of LaSoda. Tubers round to oval, eyes medium in depth, bright deep red skin, white flesh. Heat tolerant, and resistant to early blight. Susceptible to hollow heart and growth cracks.

Red Maria (NY129). Late season, red-skinned tablestock. High yields of large, round tubers with shallow eyes and textured skin. Yield, dormancy better than Chieftain. Low frequency of pickouts and internal defects. Good boiling quality. Dark green vines with red/purple flowers. Scab resistance is similar to Pike. Resistant to golden nematode (Ro1).

Red Pontiac. Mid-season tablestock, high yielding, medium specific gravity. Tubers round to oblong, medium deep eyes, dark red skin, sometimes netted, white flesh. Drought tolerant. Susceptible to PVY, bruising, scab.

Rideau. Late season tablestock. High yield and specific gravity. Tubers round, shallow eyes, bright red skin. Resistant to Verticillium wilt, scab, potato viruses A and Y, and PLRV.

Salem. Mid-season tablestock. High yielding and specific gravity equal to Monona. Tubers large, slightly flat, bright white skin and flesh, early emerging. Resistant to golden nematode and very scab resistant.

Satina. Medium-early, high yielding tablestock. Good set of oval to round tubers with smooth, yellow skin and deep yellow flesh. Long dormancy. Resistant to potato cyst nematode Ro1 and wart. Very resistant to common scab. PVP #9600092, Saka-Ragis Pflanzenzucht GbR.

Sebago. Very late season table and chipstock. High yielder, medium gravity. Tubers round, shallow eyes, smooth buff skin, and white flesh. Resistant to potato viruses A, Y, and X, early blight, and net necrosis.

Snowden. Late season chipper and tablestock. High yielding, high specific gravity. Chips out of 45°. Tubers round-oval, medium shallow eyes, buff skin, white flesh. Susceptible to scab.

Superior. Early tablestock. Medium yield and specific gravity. Tubers round, medium shallow eyes, buff lightly flaky russet skin, white flesh. Resistant to scab. Susceptible to late blight, PVY, and Verticillium wilt.

Upstate Abundance (NY150). Niche-market, early season tablestock. Produces many small tubers with bright white skin.

Waneta. (NY138) Late maturity chipstock. Large tubers with attractive shape and moderately textured skin. In Cornell trials, yield has been comparable to Atlantic, while gravity has averaged 0.01 less than Atlantic. Few pickouts, but large tubers have shown 5-10% hollow heart. Very good chip color from 44 degree storage. Dormancy is six weeks longer than Atlantic. Less susceptible to blackspot than Snowden. Moderately resistant to common scab. Resistant to the golden nematode (Ro1). U.S. Plant Variety Protection (PVP-1994) Certificate #200900363, Cornell University.

Yukon Gold. Mid-season tablestock. High yield and high specific gravity. Tubers oval, shallow pink eyes, yellowish-buff skin, and light yellow flesh. Resistant to potato virus A, and leafroll. Susceptible to scab.

Notice:

Variety/Selection Descriptions. The descriptions of varieties and selections in this directory are provided for informative purposes only and are not intended to act as a substitute for official variety descriptions. Specific inquiries regarding agronomic characteristics or disease resistances should be directed to the variety developer/owner or your local Cooperative Extension Agent.

Certification of Varieties/Selections. This directory may list selections/strains of certain varieties. These strains/selections may possess characteristics that are different from the variety as originally described by the developer. However, these strains/selections cannot normally be distinguished from the original variety using conventional certification methods or laboratory testing, and any representation as to selection/strain is the sole responsibility of the seller.

Intellectual Property Rights. Certain varieties may be protected under plant variety protection (PVP), patent, or other intellectual property laws. Production of these varieties may require a license or other permission of the variety owner and it is the responsibility of producers to ensure that appropriate permissions are obtained. Any information provided in this directory regarding the protection of specific varieties is provided for informative purposes only and is not intended to act as a substitute for official sources of such information.

2018 Grower Information

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Juliette, La Ratte, Lamoka, Lehigh, Moulin Rouge,
Natascha, NorDonna, NY140, NY152, NY157,
Paroli, Purple Majesty, Purple Pelisse,
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