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Pioneers In Seed Potato Certification

Much of the early research work on potato diseases and how they spread was done in Germany and Holland around the turn of the century. Scientists found that, through careful monitoring of the crop and removal of unhealthy plants, they could maintain a vigorous, healthy stock indefinitely. Similar research soon was being conducted in the United States.

USDA plant pathologist W.A. Orton had studied potato certification in Germany and upon his return began to work with potato growers and Universities to introduce those concepts here.

Efforts by Wisconsin growers led to the establishment of the Wisconsin Seed Potato Improvement Association in 1905. The Wisconsin College of Agriculture had been engaging with the grower community already to improve potato production through special teaching railcars that traveled through potato areas in northern Wisconsin, called “Potato Specials.” The College programming emphasized the standardization and purity of potato varieties.

A convention was held in Rhinelander November 20-21 of 1913 to discuss “Pure Seed of Standard Market Varieties for All Commercial Purposes.” At this convention, a formal plan for inspection and certification of potato seed was put into place. The first of now many official seed inspection programs in North America was established and fully implemented with field inspections in 1914. The same objectives of “varietal purity” and “freedom from disease” determined from field inspections remain today.

State Seed Farm

A reliable source of high-quality, disease-free basic seed stocks was and remains essential to the strength and growth of Wisconsin’s certified seed potato program. The University of Wisconsin Lelah Starks Elite Foundation Seed Potato Farm in Rhinelander has been the Wisconsin seed potato growers’ primary source of new and established disease-test potato varieties since 1941. Propagation of disease free stock and attention to clonal selection were key to the success of this program. In 1984, a 1000-acre farm became home of the UW farm operation at the bequest of Miss Lelah Starks, a pioneer Wisconsin seed potato grower.

A Century Long Tradition: The Wisconsin Idea

The Wisconsin Seed Potato Certification Program has been administered since inception by the College of Agricultural and Life Sciences, University of Wisconsin - Madison. The program retains a full-time staff of experienced professionals to ensure thoroughness and impartiality in inspection and certification procedures.

The Wisconsin Idea, is that the University is involved in where you live and work. And for 100 years, the University remains a key partner with Wisconsin seed potato growers, a relationship that strengthens both.

Through providing information, exercising technical skill, doing research directed at solving problems, and conducting outreach activities, the University meets the growers at the field level. This special relationship to the academic community brings new information on pathogens, best practices, and introduces high quality basic seed into the marketplace.

On the cover:
Wisconsin certified seed potato growers, seed certification staff and University of Wisconsin researchers gathered at the Langlade Agricultural Research Station in Antigo.

Welcome! Please note that the acreage data listed in this directory represent acres meeting field tolerances for foundation and certified class seed potatoes in Wisconsin at the completion of summer field inspections.

All certified and foundation class seed potatoes in Wisconsin are post-harvest tested to ensure compliance with certification requirements. As such, these figures are not final, as certification requirements are not met until tuber inspections, post-harvest testing and grade inspections are complete. Buyers who purchase seed prior to completion of the post-harvest test are encouraged to check the final classification of seed lots (generally available after February 1) prior to shipping.

Buyers of Wisconsin certified seed potatoes are encouraged to contact the Certification office to obtain this information at any time. The professional staff at the Certification office also can provide and explain "generation” designations of 2013 seed lots.

Results of summer field inspections, tuber inspections and the post-harvest winter test may be obtained by writing or calling the Wisconsin Seed Potato Certification Program.

P.O. Box 328, Antigo, WI 54409.
Phone (715) 623-4039; FAX (715) 623-6970
E-mail abcrockford@wisc.edu

Strict Standards Mean High Quality From Wisconsin

- All certified seed potatoes are produced in a limited generation program with a maximum of seven generations of field propagation.
- Certified seed potato growers must enter their entire potato acreage for certification, and plant all acreage with foundation class seed.
- Only certified seed potato growers with a record of no bacterial ring rot for two consecutive seasons can produce foundation class seed.
- All potatoes entered for certification undergo a minimum of two field inspections and a tuber inspection at harvest or in storage.
- All potatoes meeting field and tuber inspection standards must be post-harvest tested to be eligible for certified seed tags.
- All potato storage facilities must be inspected and approved prior to filling with certified seed potatoes.
- All certified seed potatoes must be graded in accordance with Wisconsin seed potato grade standards before official tags can be attached.
- Post-harvest testing of all certified seed lots ensures that problems from late-season virus infections are identified and assessed according to specific tolerances, preventing the movement of seed lots with potentially yield- and quality-damaging virus infections to commercial potato growers.

Tolerances for Certified and Foundation Seed Potato Classes in Wisconsin

Wisconsin seed potatoes are classified as "certified" or "foundation", depending on disease and mixture levels and intended use. Tolerances for certified class are set to meet minimum acceptable standards for commercial production (see table). Foundation class seed meets much stricter tolerances required to protect the integrity of the seed industry. Typically over 85% of seed lots entered for certification meet FOUNDATION quality standards for both field and winter-test inspections.

Field and Harvest Inspection Standards for Certified and Foundation Seed Potato Classes in Wisconsin*

<table>
<thead>
<tr>
<th>Disease or Defect</th>
<th>Certified (%)</th>
<th>Foundation (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leaf roll</td>
<td>1.00</td>
<td>0.25</td>
</tr>
<tr>
<td>Mosaic</td>
<td>1.00</td>
<td>0.25</td>
</tr>
<tr>
<td>Spindle Tuber</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Total Virus</td>
<td>2.00</td>
<td>0.25</td>
</tr>
<tr>
<td>Bacterial Ring Rot</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Variety Mixture</td>
<td>0.10</td>
<td>0.10</td>
</tr>
</tbody>
</table>

The Post-harvest Test

Virus infection of seed lots can and does occur after summer inspections are complete. A post-harvest grow-out of all seed lots is designed to prevent the certification of lots infected late in the season with viruses or other diseases.

Post-harvest Test Standards for Certified and Foundation Seed Potato Classes*

<table>
<thead>
<tr>
<th>Disease or Defect</th>
<th>Certified (%)</th>
<th>Foundation (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leaf roll</td>
<td>5.0</td>
<td>0.50</td>
</tr>
<tr>
<td>Mosaic</td>
<td>5.0</td>
<td>0.50</td>
</tr>
<tr>
<td>Spindle Tuber</td>
<td>0.0</td>
<td>0.00</td>
</tr>
<tr>
<td>Total Virus</td>
<td>5.0</td>
<td>0.50</td>
</tr>
<tr>
<td>Bacterial Ring Rot</td>
<td>0.0</td>
<td>0.00</td>
</tr>
<tr>
<td>Variety Mixture</td>
<td>2.0</td>
<td>0.25</td>
</tr>
</tbody>
</table>

*Seed certified in Wisconsin does not exceed the appropriate tolerances listed in the above tables based on visual inspections. Higher tolerances in the winter test are due to the greater likelihood of selecting infected tubers in single-drop seed, as used in this test.

Any seed imported into Wisconsin for recertification must also meet our same standards, both field and post harvest test tolerances, for virus and variety mixture. We also view third-party shipping point inspections, required by Wisconsin ATCP156, as a critical component of the seed certification process and as an absolute requirement recertification.
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University of Wisconsin-Madison
1630 Linden Drive, Madison, WI 53706
608-262-1410 (Office) 608-263-2626 (FAX)

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715-623-6970 (FAX)
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Dianna Kessler (Inspector) Home 715-627-1361
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Elite Foundation Seed Potato Farm
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   Email: kheinzen@facstaff.wisc.edu

Joshua Kunzman (Res Gardener) Mobile 715-482-9619
   Email: kunzman@wisc.edu

George Neuber (Equip Operator)

WISCONSIN SEED POTATO IMPROVEMENT ASSOCIATION

The 2013 Wisconsin Seed Potato Improvement Association board of directors includes (L-R): Ron Krueger (Vice President), Dan Hafner, Eric Schroeder, Josh Mattek (President) and Bill Guenthner (Secretary/Treasurer).
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Fax 715-365-1620

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Bill Guenthner 715-627-2792
Tom Schmidt 715-627-2123
Fax 715-627-0507

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Fax 715-623-7127
Robert Guenthner 715-623-7877
Michael J Fischer 715-610-7037
Email mikegpci@cirrinity.com

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Fax 715-623-4203
David Hafner 715-623-6902
Dan Hafner 715-627-4152
John Hafner 715-623-6829

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Michael Hartman Cell 715-610-6477
Todd Hartman 715-216-2059

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Dan Kakes 715-623-7268
Eugene Kakes 715-623-6348
David Kakes 715-623-6348
Fax 715-623-4614

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Fax 715-623-5882
Ronald Mach 715-623-6855
Kenneth Mach 715-627-4187
Email rmach73@gmail.com

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John Mattek 715-623-6864
Joe Mattek 715-623-3156
Mobile 715-216-0599
Email jwmattek@gmail.com

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Ed Bula 715-478-3437
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WATS 888-853-5690
FAX 715-627-4810
Ken Rine 715-623-6791
Ken’s Mobile 715-216-0760
Dan’s Mobile 715-216-0765
Email rinerdg@yahoo.com

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FAX 715-627-4857
Warehouse, Schr. Farms, Ltd. 715-627-7022
John T. Schroeder 715-623-5735
Pete Schroeder 715-627-4069
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FAX 715-623-2747
Art Seidl 715-623-6236
Frank Seidl 715-484-2052
Jim Fassbender 715-623-6481

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FAX 715-369-3225
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James Shafel Cell 715-216-4532
FAX 715-627-4114
Email sunnydaleseed@yahoo.com

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FAX 715-623-5245
Tom Wild Mobile 715-216-1223
Dan Wild Mobile 715-216-1225
Email wildseed@antigopro.net

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Donald Wirz 715-627-7739
WATS 888-257-7739
FAX 715-627-4523
Mobile phone 715-216-4035
Shop 715-627-2860
Email wirzinc@yahoo.com
Website www.wirzinc.com

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Lake Mills, WI 53551
Dennis Zeloski 920-648-2341
Dennis’s Mobile 920-988-8733
FAX 920-648-3256
Email dzeloski@intaccess.com
Ron Krueger, Farm Manager
4334 Chain of Lakes Rd.
Eagle River, WI 54521
Eagle River Warehouse 715-479-8434
FAX Eagle River 715-479-8792
Email rlkrueger@charter.net
Mobile 715-891-0832

Hands and knees harvest into bags near Antigo.
Recent Wisconsin Seed Potato Releases

**Accumulator**: Round white with yield potential often 20% above comparable varieties. Full season cultivar with large vigorous vines. Variable tuber shape and large set. Intermediate eye depth, moderately netted skin. Susceptible to Common Scab.

**Freedom Russet**: Oblong russet. Late maturity. Plants vigorous, spreading. Good yield capacity and tuber size. Resistant to common scab and Verticillium wilt. Slightly lower specific gravity than *Russet Burbank*. Fresh market russet.

**Lelah**: Round-oval white with smooth skin shallow eyes, Fresh market and chip production. Medium maturity and vine growth. Has long term and cold storage chipping ability, maintaining a low glucose profile through 9 months.

**MegaChip**: Medium short storage chipper, late maturity. Good yielding capacity, good tuber size (40% in the range of 6-10 oz). Very good specific gravity (1.083-1.090). Fairly resistant to early blight and early dying. Less sensitive to blackspot bruise than *Snowden*.

**Nicolet**: Round-oval white. Smooth skin and shallow eyes. Full season with good vine growth. High yielding chipper with good internal quality, medium to long storage chipping from 48° to 7 months. Susceptible to Common scab, moderate tolerance to Verticillium wilt.

**Tundra**: Round-oval white. Full season maturity. Very large vigorous canopy. Long storage chipper from 48°F for 6-9 months. Low defects. Specific gravity equivalent or higher than Atlantic. Moderate Common scab resistance.

Upcoming UW Varieties in Production at the Lelah Starks Elite Foundation Seed Farm

**W5015-12**: High yielding round white with good chipping traits. Chips processed from potatoes stored at 48-50°F can retain light color for six months or more; typically several weeks longer than *Snowden*. Tolerant to *Verticillium*, susceptible to Common scab. In US Potato Board Fast-track with large scale commercial trials planned for 2014.

**W6002-1R**: Fresh market red with very uniform size, shallow eyes, and great color that holds in storage through February. Good skin set with maturity similar to Dark Red Norland.

**W6234-4**: Oblong processing tuber with smooth skin with low acrylamide content. Lighter fry color than *Russet Burbank*. Traits suitable for use in quick service restaurant French fry applications.

---

**Potato Varieties and Numbered Selections Certified in Crop Year 2013***

<table>
<thead>
<tr>
<th>Variety</th>
<th>Certification Code</th>
</tr>
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<tbody>
<tr>
<td>Accumulator (W2324-1)</td>
<td>MSR061-1</td>
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<tr>
<td>Adirondack Blue</td>
<td>Nicolet (W2133)</td>
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<td>AFO338-17</td>
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<td>All Blue</td>
<td>Pike</td>
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<td>Atlantic</td>
<td>Reba</td>
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<td>ATTX961014-IRY</td>
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<td>Innovator</td>
<td>Superior</td>
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<td>Lamoka</td>
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<td>Lelah</td>
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<td>Yukon Gold</td>
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<td>MSM246-B</td>
<td>Frito-Lay Varieties</td>
</tr>
</tbody>
</table>

*through summer readings only

---

Two Lockwood harvesters digging on the “Antigo Flats.”
GALLENBERG FARMS, INC.
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Antigo, WI 54409

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Phone: 888-446-7753 or 715-627-7753
Fax: 715-623-5412
Wisconsin Seed Potato Certification 1913-2013
100 Years of Seed Growing Tradition!

Convention Of The Wisconsin Potato Growers Association
Rhinelander, November 20-21, 1913
Topic Of The Convention:
“Pure Seed of Standard Market Varieties for All Commercial Purposes”

“The plans of the department contemplate a continuation of the organization of community centers and the establishment and operation, as soon as feasible, of a system of potato inspection and certification, looking toward the building up of a reputation for Wisconsin seed unsurpassed by that of any potato producing state in the country.”

J.G. Moore, Professor of Horticulture, University of Wisconsin

**THE TWO FUNDAMENTAL OBJECTS OF THE**
**Wisconsin Potato Growers Association**

I. TO GUARANTEE PURE POTATO SEED SHIPMENTS.
The two essentials are, A. Variety purity. B. Freedom from disease.
Wisconsin seed stock is apparently free from those dangers which menace the potato industry in many commercial centers.
This advantage must be maintained by a careful system of inspection in co-operation with this Association.

"Let your motto be, good seed, true to name and type, free from varietal mixture and from disease, and all the other good things of life will be added unto you."

Professor William Stuart, U.S. Department of Agriculture, 1913

II. TO GUARANTEE STRAIGHT CAR LOTS OF COMMERCIAL TABLE STOCK-SORTED AND GRADED.
This standard can be maintained only through community effort—organization—co-operation.
The work of this Association will be judged by the standard of Wisconsin potato shipments on the markets of the Middle West.

Begin with the Best!
For a directory of Wisconsin Certified Seed Potato Growers or a free video, contact:
Wisconsin Seed Potato Improvement Association, Inc.
P.O. Box 173, Antigo, WI 54409 • 715-623-4039 • www.potatoseed.org

[QR Code: View a directory of the Wisconsin Certified Seed Potato Growers on your smartphone.]
Sowinski Certified Seed Farm
Manager: John Hein - Phone: 715-369-3225
Isolated Growing Area – Foundation/Certified
Paul Sowinski
5818 Fire Lane
Rhineland, WI 54501
Phone: 715-272-1192
Fax: 715-272-1658
sowinski@frontier.com

Sunnydale Farms
- Atlantic • Yukon Gold • Snowden
- Dark Red Norland • MegaChip • Superior
Michael Shafel
W9751 County I
Bryant, WI 54418
Phone: 715-627-7401
Fax: 715-627-4114
email: sunnydalseed@yahoo.com

WISCONSIN CERTIFIED
SEED POTATOES
WILD SEED FARMS
Atlantics • Superiors • Snowdens
Red La Sodas
Tom and Dan Wild
wildseed@antigopro.net 715-623-3366

Seidl Farms
- Atlantic • Snowden • Goldrush •
- Russet Norkotah • Red Norland •
715-623-6236
Art Seidl - Jim Fassbender - Jeff Fassbender

SPECIALIZING IN CHIPS
Lamoka • MegaChip • Pike • Nicolet • Marcy
715-627-4819 Ken or Dan
Fax: 715-627-4810 W8132 Cty. Hwy. 0
Toll Free: 888-853-5690 rinerdg@yahoo.com Bryant, WI 54418

WISCONSIN CERTIFIED
SEED POTATOES
WILDSEED FARMS
Specializing in chip varieties
Lamoka • MegaChip • Pike • Nicolet • Marcy
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Important Notes on this Directory

1) An asterisk (*) denotes less than an acre. LICENSED VARIETY after the variety name indicates seed production occurs under legal arrangement with the owner or agent of the variety, often involving fees.

2) The figures listed represent acreages meeting field inspection standards for certified seed potatoes, and does not represent full certification. Results of summer field inspections, tuber inspections and the post-harvest tests may be obtained by contacting the program.

3) The acreage figures do not necessarily indicate quantities of seed available for purchase since a portion of the annual production is destined for replanting, fresh consumption or processing.

4) Late blight notice: Two lots affected. Identified during field inspection. The two small areas affected were voluntarily removed from each seed lot.

Limitation of Warranty

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<thead>
<tr>
<th>Variety</th>
<th>Farm Name</th>
<th>Acres</th>
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<tbody>
<tr>
<td>Beacon Chipper</td>
<td>Zeloski, Felix Farms</td>
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<tr>
<td>Canela Russet</td>
<td>Bula Potato Farms, Inc.</td>
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<td>Carola</td>
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<tr>
<td>Cascada</td>
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<td>Dakota Trailblazer</td>
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<td>Freedom Russet</td>
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<td>German Butterball</td>
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<td></td>
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<tr>
<td>Goldrush (U.S. Patent No. 5,434,343)</td>
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<td>Bula Potato Farms, Inc.</td>
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<td>Fleischman, David Farms</td>
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<td>Gallenberg Farms, Inc.</td>
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<td>Guenther Farms, Inc.</td>
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<td>Hafner Seed Farms, Inc.</td>
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<td>Hartman Farms, Inc.</td>
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<td>Kakes Farms, Ltd.</td>
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<td>Innovator</td>
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<tr>
<td>Jacqueline Lee</td>
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<td>Kennebec</td>
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<td>Lamoka</td>
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<td>Magic Molly</td>
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<td>Marcy</td>
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<td>MegaChip</td>
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<td>Wirz, Inc.</td>
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<td>Norland (Dark Red Selection)</td>
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<td>Norland (Red Selection)</td>
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<td>NY-138</td>
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<tr>
<td>Peter Wilcox</td>
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<tr>
<td>Pike</td>
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<tr>
<td>POR02PG37-2</td>
<td>LICENSED VARIETY</td>
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**Total Acres Passed:**
- MSR061-1: 63
- Nicolet (W2133-1): 841
- Norland (Dark Red Selection): 302
- Norland (Red Selection): 298
- NY-138: 2
- Peter Wilcox: *
- Pike: 205
- POR02PG37-2: 298

**Additional Varieties:**

- **Red LaSoda**
  - Mach's Sunny Acres, Inc.: 21
  - Wild Seed Farms, Inc.: 13

- **Red LaSoda 10-3**
  - Guenthner Farms, Inc.: 40
  - Mach's Sunny Acres, Inc.: 22
  - Wild Seed Farms, Inc.: 33

- **Red Maria**
  - Vermont Valley Community Farm: 

- **Red Pontiac**
  - Guenthner Farms, Inc.: 3

- **Rio Colorado**
  - Zeloski, Felix Farms: 3

- **Russet Burbank**
  - Baginski, Ted & Sons, Inc.: 37
  - Schroeder Farms, Ltd.: 27

- **Russet Norkotah**
  - Baginski, Ted & Sons, Inc.: 40
  - Fleischman, David Farms: 77
  - Hafner Seed Farms, Inc.: 70
  - Hartman Farms, Inc.: 29
  - Mattek, J.W. & Sons, Inc.: 32
  - Seidl Farms, Inc.: *
  - Vermont Valley Community Farm: *

- **Russet Norkotah Sel 8**
  - Baginski, Ted & Sons, Inc.: 48
  - Mattek, J.W. & Sons, Inc.: 17
  - Schroeder Bros. Farms, Inc.: 119
  - Schroeder Farms, Ltd.: 21

- **Russet Norkotah TX278**
  - Schroeder Bros. Farms, Inc.: 2

- **Russet Norkotah TX296**
  - Schroeder Bros. Farms, Inc.: 64

- **Russet Sebago**
  - Guenthner Farms, Inc.: 18
  - Guenthner Farms, Inc.: 2
<table>
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<th>Variety</th>
<th>License Type</th>
<th>Farms and Acres</th>
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<td>Schroeder Bros. Farms, Inc. 57</td>
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<td>Zeloski, Felix, Farms 32</td>
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<td><strong>Total Acres Passed</strong></td>
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<td><strong>Snowbird</strong></td>
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<td>Northern Sand Farm 27</td>
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<td></td>
<td></td>
<td>Schroeder Bros. Farms, Inc. 54</td>
</tr>
<tr>
<td></td>
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<td>Schroeder Farms, Ltd. 46</td>
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<tr>
<td></td>
<td></td>
<td>Seidl Farms, Inc. 45</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sowinski Farms, Inc.- Cert. Seed 66</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sunnydale Farms, Inc. 27</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wild Seed Farms, Inc. 23</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wirz, Inc. 107</td>
</tr>
<tr>
<td><strong>Total Acres Passed</strong></td>
<td></td>
<td>732</td>
</tr>
<tr>
<td><strong>Soraya</strong></td>
<td>LICENSED VARIETY</td>
<td>Zeloski, Felix, Farms *</td>
</tr>
<tr>
<td><strong>Superior</strong></td>
<td></td>
<td>Baginski, Ted &amp; Sons, Inc. 71</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bula Potato Farms, Inc. 15</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fleischman, David Farms 29</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Gallenberg Farms, Inc. 72</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Guenthner Farms, Inc. 11</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hafner Seed Farms, Inc. 46</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hartman Farms, Inc. 23</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mach's Sunny Acres, Inc. 19</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Schroeder Bros. Farms, Inc. 27</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sunnydale Farms, Inc. 8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vermont Valley Community Farm 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wild Seed Farms, Inc. 35</td>
</tr>
<tr>
<td><strong>Total Acres Passed</strong></td>
<td></td>
<td>355</td>
</tr>
</tbody>
</table>
| **Tetra Russet (A008-ITE)**   | LICENSED VARIETY | Guenthner Farms, Inc. *
| **Tundra (W2310-3)**          | LICENSED VARIETY | Northern Sand Farms 9 |
|                               |              | Sowinski Farms, Inc.- Cert. Seed 4 |
| **Total Acres Passed**        |              | 13 |
| **Umatilla Russet**           | LICENSED VARIETY | Northern Sand Farms 19 |
| **Villetta Rose**             | LICENSED VARIETY | Sunnydale Farms, Inc. 2 |
| **W5015-12**                  |              | Northern Sand Farms 1 |
| **W6022-1R**                  |              | Gallenberg Farms, Inc. 1 |
|                               |              | Sunnydale Farms, Inc. * |
|                               |              | Zeloski, Felix Farms * |
| **Total Acres Passed**        |              | 1 |
| **W6234-4RUS**                |              | Bula Potato Farms, Inc. 2 |
| **W6703-1Y**                  |              | Gallenberg Farms, Inc. 2 |
| **White Pearl**               | LICENSED VARIETY | Northern Sand Farms 17 |
| **Yukon Gold**                |              | Bula Potato Farms, Inc. 26 |
|                               |              | Fleischman, David Farms 110 |
|                               |              | Gallenberg, David 7 |
|                               |              | Sunnydale Farms, Inc. 48 |
|                               |              | Vermont Valley Community Farm * |
| **Total Acres Passed**        |              | 192 |
| **Frito-Lay varieties**       | LICENSED VARIETIES | Total Acres Passed 2,212 |
|                               |              | **UW Breeding Station lines** | 3 |
| **Total Acres Passed - All Varieties** | | 8297 |
**WISCONSIN GENERATION SYSTEM**

All seed potatoes certified in Wisconsin are classified according to Wisconsin's limited generation system (below).

<table>
<thead>
<tr>
<th>Production location</th>
<th>Serological testing</th>
<th>Seed class</th>
<th>Field year</th>
</tr>
</thead>
<tbody>
<tr>
<td>UW-Madison</td>
<td>All mother plants</td>
<td>Prenuclear stocks (Prenuclear plantlets and microtubers maintained in vitro in growth chambers)</td>
<td>0</td>
</tr>
<tr>
<td>Dept. of Plant Pathology</td>
<td>UW Lelah Starks</td>
<td>Nuclear stocks (minitubers produced in greenhouses)</td>
<td>1</td>
</tr>
<tr>
<td>Seed Potato Farm</td>
<td>Elite 1 Foundation</td>
<td>Elite 2 Foundation</td>
<td>2</td>
</tr>
<tr>
<td>Rhinelander</td>
<td>All clones subjected to postharvest grow-out and inspection</td>
<td>Rogued visually to be pure, uniform &amp; disease-free</td>
<td></td>
</tr>
<tr>
<td>Wisconsin certified seed growers</td>
<td>Foundation - Year 3</td>
<td>Foundation - Year 4</td>
<td>Foundation - Year 5</td>
</tr>
</tbody>
</table>

The production of elite foundation seed in Wisconsin begins in the laboratories of the Department of Plant Pathology at the University of Wisconsin-Madison.

Disease-free pre-nuclear plantlets are transported to the UW Lelah Starks Elite Foundation Seed Potato Farm in Rhinelander, an elite foundation seed production program that began in 1941.

Certification Program staff are integrally involved in the management of the State Seed Farm, providing not only a concentration of specific expertise in basic seed production, but also accountability to the industry to maintain the highest scientific standards in seed production. Nuclear stocks (minitubers) are produced in greenhouses in the first production cycle at the State Farm. One or two elite field generations follow. Highly skilled seed certification inspectors direct removal of inferior or diseased plants on a weekly basis up to the time of tuber bulking. Varieties are increased as tuber-units in the second field generation to facilitate detection and elimination of any pathogens present. Disease development and spread is controlled by strict sanitation and cultural practices.

---

**COMPARING GENERATIONS**

The following table presents generation nomenclature among seed certifying agencies in North America as a function of number of years of field planting.

**LIMITED GENERATION CERTIFIED SEED POTATOES**

<table>
<thead>
<tr>
<th>Agency</th>
<th>Year in the Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alaska</td>
<td>1 2 3 4 5 6 7 8</td>
</tr>
<tr>
<td>California</td>
<td>G1 G2 G3 G4 G5 G6 G7 G8</td>
</tr>
<tr>
<td>Colorado</td>
<td>G1 G2 G3 G4 G5 G6</td>
</tr>
<tr>
<td>Idaho</td>
<td>N G1 G2 G3 G4 G5 G6</td>
</tr>
<tr>
<td>Maine</td>
<td>FY1 FY2 FY3 FY4 FY5 FY6</td>
</tr>
<tr>
<td>Michigan</td>
<td>FY1 FY2 FY3 FY4 FY5 FY6</td>
</tr>
<tr>
<td>Minnesota</td>
<td>G1 G2 G3 G4 G5 G6</td>
</tr>
<tr>
<td>Montana</td>
<td>N G1 G2 G3 G4</td>
</tr>
<tr>
<td>Nebraska/Wyoming</td>
<td>N G1 G2 G3 G4 G5</td>
</tr>
<tr>
<td>Nevada</td>
<td>N G1 G2 G3 G4</td>
</tr>
<tr>
<td>New York</td>
<td>N1 N2 N3 G1 G2 G3 G4 G5</td>
</tr>
<tr>
<td>North Dakota</td>
<td>N G1 G2 G3 G4 G5</td>
</tr>
<tr>
<td>Oregon</td>
<td>N G1 G2 G3 G4 G5</td>
</tr>
<tr>
<td>Utah</td>
<td>N(G1) G2 G3 G4 G5</td>
</tr>
<tr>
<td>Washington</td>
<td>N G1 G2 G3 G4 G5</td>
</tr>
<tr>
<td>Wisconsin</td>
<td>FY1 FY2 FY3 FY4 FY5 FY6</td>
</tr>
<tr>
<td>Canada</td>
<td>PE E1 E2 E3 E4 F C</td>
</tr>
<tr>
<td></td>
<td>(G1) (G2) (G3) (G4) (G5) (G6) (G7)</td>
</tr>
</tbody>
</table>

Revision Date: June 2012

1. The purpose of this table is to express equivalency of terms used by various certification agencies for seed potatoes harvested from a series of successive field plantings. For specific criteria relating to disease tolerances and other requirements, the reader is referred to the certification regulations of the agency in question.

3. The first field planting utilizes laboratory-tested stocks which may be tissue-cultured plantlets, greenhouse-produced minitubers, stem cuttings, or line selections. Contact agencies for details as to types of stocks planted in their programs. Certification below generation may also be sold for fresh market or for processing. Sold as Foundation or Certified class seed. Either class must meet blue or yellow tag grade requirements when shipped.

4. May regenerate by tuber-unit planting plus pathogen testing. May regenerate by tuber-unit planting if Foundation means eligible for continued use in seed production; may also be sold for fresh market or for processing. Sold as Foundation or Certified class seed. Either class must meet blue or yellow tag grade requirements when shipped.


6. FY = Foundation Year (Wisconsin), Field Year (Michigan).

**www.potatoseed.org**

The Wisconsin Advantage: Seed Beyond Certification

A video highlighting the unique features of seed potato production and certification in Wisconsin.

A free DVD is also available from the Wisconsin Potato and Vegetable Growers Association (715-623-7683).
Seed Required to Plant One Acre

<table>
<thead>
<tr>
<th>Seed piece spacing (in.)</th>
<th>Seed piece weight (oz.)</th>
<th>32&quot; Row Spacing</th>
<th>Seed required (cwt)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>1 1/2</td>
</tr>
<tr>
<td>6</td>
<td>20.4</td>
<td>30.6</td>
<td>35.7</td>
</tr>
<tr>
<td>8</td>
<td>15.3</td>
<td>23.0</td>
<td>26.8</td>
</tr>
<tr>
<td>10</td>
<td>12.3</td>
<td>18.4</td>
<td>21.4</td>
</tr>
<tr>
<td>12</td>
<td>10.2</td>
<td>15.3</td>
<td>17.9</td>
</tr>
<tr>
<td>15</td>
<td>8.2</td>
<td>12.3</td>
<td>14.3</td>
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</table>

<table>
<thead>
<tr>
<th>Seed piece spacing (in.)</th>
<th>Seed piece weight (oz.)</th>
<th>34&quot; Row Spacing</th>
<th>Seed required (cwt)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>1 1/2</td>
</tr>
<tr>
<td>6</td>
<td>19.2</td>
<td>28.8</td>
<td>33.6</td>
</tr>
<tr>
<td>8</td>
<td>14.4</td>
<td>21.6</td>
<td>25.2</td>
</tr>
<tr>
<td>10</td>
<td>11.4</td>
<td>17.4</td>
<td>20.4</td>
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<tr>
<td>12</td>
<td>9.6</td>
<td>14.4</td>
<td>16.8</td>
</tr>
<tr>
<td>15</td>
<td>7.8</td>
<td>11.4</td>
<td>13.8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Seed piece spacing (in.)</th>
<th>Seed piece weight (oz.)</th>
<th>36&quot; Row Spacing</th>
<th>Seed required (cwt)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>1 1/2</td>
</tr>
<tr>
<td>6</td>
<td>18.0</td>
<td>27.0</td>
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<td>13.8</td>
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<tr>
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<td>9.0</td>
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<tr>
<td>15</td>
<td>7.2</td>
<td>10.8</td>
<td>12.6</td>
</tr>
</tbody>
</table>

Calculating cwt in bulk storage

Cwt in Pile = Pile length x Pile height x Pile width x 0.42

(Pile dimensions in feet)

Temperature conversions

\[ ^\circ C = \frac{^\circ F - 32}{1.8} \]
\[ ^\circ F = (^\circ C \times 1.8) + 32 \]
New Cultivars from the Wisconsin Breeding Program

W5015-12 Cold Storage Chipper
- High yield potential
- Good chip color up to six months after storage at 48 - 50°F
- Gravity similar to Snowden
- Tolerant to Verticillium Wilt.

W6234-4rus Processing Russet
- Smooth blocky tubers
- Lighter fry color and higher gravity than Russet Burbank
- Excellent internal quality
- High marketable yield

W6002-1R Uniform Medium Size
- Maintains nice red color in storage
- Good internal quality
- Shallow eyes
- Medium to long dormancy

For more information contact:
Jiwan Palta (jppalta@wisc.edu, 6082625782)
Jeff Endelman (endelman@wisc.edu, 6082500754)

For licensing contact Emily Bauer (emily@warf.org, 6082628638)

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