

Wisconsin Certified Seed Potatoes



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WISCONSIN CERTIFIED SEED POTATOES *100 Years of Seed Growing Tradition*

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 on 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.



Miss Lelah Starks



Henry Darling (Left), program leader, instrumental in establishing the University seed farm.

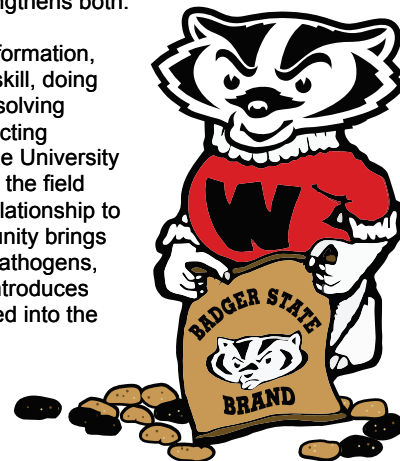
The program maintains variety trueness to type; roguing of weak, genetic variants, and diseased plants to continue to develop and maintain germplasm of your favorite varieties.

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 more than 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: A potato field in bloom is a thing of beauty.
 Photo by Tamas Houlihan, Communications Director, Wisconsin Potato & Vegetable Growers Association.

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 2014 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.**

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

Disease or Defect	Certified (%)	Foundation (%)
Leaf roll	1.00	0.25
Mosaic	1.00	0.25
Spindle Tuber	0.00	0.00
Total Virus	2.00	0.25
Bacterial Ring Rot	0.00	0.00
Variety Mixture	0.10	0.10

Wisconsin 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*

Disease or Defect	Certified (%)	Foundation (%)
Leaf roll	5.0	0.50
Mosaic	5.0	0.50
Spindle Tuber	0.0	0.00
Total Virus	5.0	0.50
Bacterial Ring Rot	0.0	0.00
Variety Mixture	2.0	0.25

**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.

WISCONSIN SEED POTATO CERTIFICATION PROGRAM PERSONNEL DIRECTORY

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Wisconsin Seed Potato Certification

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WISCONSIN SEED POTATO CERTIFICATION PROGRAM PERSONNEL



Staff members of the Wisconsin Seed Potato Certification Program. Includes personnel from Antigo (certification), Rhinelander (elite foundation seed farm), and Madison (tissue culture laboratory).

Front row (L-R) Ryan Fourt, Rick Hafner, Brooke Weber, Kevin Bula, Dianna Kessler, Andy Witherell;
Second row (L-R) Jim Meyer, Mike Wells, Terry Rolefson, George Neuber, Roger Reader, Dr. Amy Charkowski, Jerry Kuczmarski, Josie Spurgeon;
Back row (L-R) Rosemary Heinzen, Keith Heinzen, Alex Crockford.

WISCONSIN SEED POTATO IMPROVEMENT ASSOCIATION



The 2014 Wisconsin Seed Potato Improvement Association board of directors includes (L-R): Ron Krueger (President), Dan Hafner (Vice President), Charlie Mattek (Secretary/Treasurer), Bill Guenther and Eric Schroeder.

WISCONSIN CERTIFIED SEED POTATO GROWERS DIRECTORY

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 Frank Seidl 715-484-2052
 Jim Fassbender 715-623-6481
 Jeff Fassbender 715-216-4433

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Ron Krueger, Farm Manager
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 FAX Eagle River 715-479-8792
 Email rlkrueger@charter.net
 Mobile 715-891-0832



Hands and knees harvest into bags near Antigo.

Recent University of Wisconsin Potato Variety 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.

New Licensed UW Varieties in Production



Pinnacle (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.



Red Endeavor (W6002-1R): Fresh market red with very uniform size, shallow eyes, and great color that holds in storage through February. Medium high yield potential, late maturity and long dormancy.



Oneida Gold (W6703-1Y): Fresh market yellow potato yielding similar or higher than Yukon Gold. Moderate resistance to common scab. Smooth skin and maintains good quality in storage.

For Trial Evaluation Purposes



W6234-4rus: A uniform smooth skin processing russet with low acrylamide levels currently under evaluation in National Fry Processing Trial and other industry trials in 2014.

Potato Varieties and Numbered Selections Certified in Crop Year 2014*

AC96052-1RU	Nicolet
Accumulator	Oneida Gold (W6703-1Y)
Adirondack Blue	Peter Wilcox
Adirondack Red	Pike
AF4296-3	Pinnacle (W5015-12)
AF4648-2	POR02PG37--2
AFO338-17	Princess
Alegria	Purple Pelisse
All Blue	Purple Peruvian
Amarosa	Red Endeavor (W6002-1R)
Atlantic	Red LaSoda
Austrian Crescent	Red LaSoda 10-3
Baltic Cream	Red Maria
Banana	Red Pontiac
Bannock Russet	Rose Fin Apple
Beacon Chipper	Russet Burbank
Belinda	Russet Norkotah
Canela Russet	Russet Norkotah Sel 8
Carola	Russet Norkotah TX 296
Dakota Russet	Russet Sebago
Dakota Trailblazer	Silverton
Dark Red Norland	Snowbird
Freedom Russet	Snowden
French Fingerling	Soraya
German Butterball	Superior
Goldrush	Sylvana
Jacqueline Lee	Teton Russet (A008-ITE)
Jelly	Tundra (W2310-3)
Kea	Umatilla Russet
Kennebec	US-Blue
Lamoka	W10251-1P/PW-Fing
Langlade	W9962-1RY/Y
Magic Molly	W9979-1YR/Y
Marcy	Waneta (NY138)
MegaChip	Wega
Mercury Russet	Yukon Gold
Merlot	Frito-Lay Varieties
Molli	UW Breeding Lines
MSK061-4	W6234-4rus
MSQ086-3	

*through summer readings only

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DANIEL KAKES

PHONE (715) 623-6348

You'd be healthier, too, if you spent *your* winters in Hawaii.



100% of Wisconsin Seed Potatoes must be winter tested to be eligible for certified seed tags.

- While all state seed potato associations winter test their foundation lots, some do not winter test 100% of their certified seed lots.
- Wisconsin does, and this assures you get only the top-quality seed.
- With the Wisconsin Badger State Brand Tag, you get one grade, one standard—certification that counts.

**Don't bet your farm on untested seed potatoes.
Check the winter test results and Begin with the Best — Wisconsin!**



Wisconsin Seed Potato Improvement Association, Inc.
P.O. Box 173 • Antigo, WI 54409 • 715-623-4039 • www.potatoseed.org



For a directory of Wisconsin Certified Seed Potato Growers, scan this code with your smartphone.

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Bryant, WI 54418

Schroeder Bros. Farms, Inc.

Foundation & Certified Seed Potatoes

WHITES:

- Atlantics
- Snowdens
- Superiors
- Pikes
- MegaChip
- Lamoka

REDS:

- Red Norlands
- Dark Red Norlands

RUSSETS:

- Russet Burbanks
- Norkotahs
- Russet Norkotah C08
- Silvertown
- TX 296 Norkotah



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Art Seidl - Jim Fassbender - Jeff Fassbender

SOWINSKI FARMS INC.

Sowinski Certified Seed Farm

Manager: John Hein - Phone: 715-369-3225

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sowinski@frontier.com

Varieties Grown

Atlantic

Snowden Lelah

Nicolet NY138

Tundra

"CERTIFIED SEED POTATOES"

Sunnydale Farms

- Atlantic • Yukon Gold • Snowden
- Dark Red Norland • Red Endeavor • Superior

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www.wirzinc.com



Important Notes on this Directory

- 1) An asterisk (*) denotes less than an acre.
- 2) LICENSED VARIETY after the variety name indicates seed production occurs under legal arrangement with the owner or agent of the variety, often involving fees.
- 3) 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.
- 4) 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.
- 5) Late blight notice: No late was found during normal field inspections.

Limitation of Warranty

The University of Wisconsin College of Agricultural and Life Sciences and the Wisconsin Department of Agriculture, Trade and Consumer Protection make no expressed or implied warranties or representations as to freedom from disease or quality of the seed. The College and Department expressly disclaim any implied warranty of merchantability or fitness for a particular purpose and only certify that the inspected plant and tuber samples conformed to the standards for certification and grading.

The growers of organic seed potatoes listed herein have complied with the rules of seed potato certification in Wisconsin as codified in WDATCP 156. The Wisconsin Seed Potato Certification Program and the Wisconsin Department of Agriculture, Trade & Consumer Protection enforce these regulations and not those of organic production. The Wisconsin Seed Potato Certification Program makes no warrantee, expressed or implied, on the organic certification of these potatoes.

See ATCP 156

https://docs.legis.wisconsin.gov/code/admin_code/atcp/140/156

This directory was prepared by the Wisconsin Seed Potato Certification Program, University of Wisconsin-Madison <http://labs.russell.wisc.edu/seedpotato/> and published by Hahn Printing, Eagle River, for the Wisconsin Seed Potato Improvement Association www.potatoseed.org

Wisconsin Certified Seed Potato Directory Crop Year 2014

AC96052-1RU **LICENSED VARIETY**
Bula Potato Farms, Inc. 2

Accumulator (W2324-1) **LICENSED VARIETY**
Mach's Sunny Acres, Inc. 11
Mattek, J. W. & Sons, Inc. 27

Total Acres Passed 38

Adirondack Blue **LICENSED VARIETY**
Gallenberg, Darwin & David 4

Adirondack Red **LICENSED VARIETY**
Gallenberg, Darwin & David 1
Vermont Valley Community Farm *

Total Acres Passed 1

AF4296-3 **LICENSED VARIETY**
Zeloski, Felix Farms 1

AF4648-2 **LICENSED VARIETY**
Zeloski, Felix Farms 1

AFO338-17 **LICENSED VARIETY**
Zeloski, Felix Farms 5

Alegria **LICENSED VARIETY**
Bula Potato Farms, Inc. 2

All Blue **LICENSED VARIETY**
Vermont Valley Community Farm *

Amarosa **LICENSED VARIETY**
Zeloski, Felix Farms *

Atlantic
Hafner Seed Farms, Inc. 73
Kakes Farms, Ltd. 80
Mach's Sunny Acres, Inc. 31
Mattek, J. W. & Sons, Inc. 133
Schroeder Bros. Farms, Inc. 80
Seidl Farms, Inc. 39
Sowinski Farms, Inc.- Cert. Seed 64
Sunnydale Farms, Inc. 27
Wild Seed Farms, Inc. 140
Wirz, Inc. 34

Total Acres Passed 703

Austrian Crescent **LICENSED VARIETY**
Gallenberg, Darwin & David 1

Baltic Cream **LICENSED VARIETY**
Zeloski, Felix Farms *

Banana **LICENSED VARIETY**
Zeloski, Felix Farms *

Bannock Russet	LICENSED VARIETY	
Bula Potato Farms, Inc.		5
Beacon Chipper	LICENSED VARIETY	
Mattek, J. W. & Sons, Inc.		18
Zeloski, Felix Farms		1
Total Acres Passed		19
Belinda	LICENSED VARIETY	
Bula Potato Farms, Inc.		*
Canela Russet	LICENSED VARIETY	
Bula Potato Farms, Inc.		20
Carola		
Vermont Valley Community Farms		1
Dakota Russet	LICENSED VARIETY	
Zeloski, Felix Farms		1
Dakota Trailblazer	LICENSED VARIETY	
Bula Potato Farms, Inc.		4
Freedom Russet	LICENSED VARIETY	
Bula Potato Farms, Inc.		4
French Fingerling		
Vermont Valley Community Farm		1
German Butterball		
Gallenberg, Darwin & David		3
Vermont Valley Community Farm		*
Total Acres Passed		3
Goldrush (U.S. Patent No. 5,434,343)		
Baginski, Ted & Sons, Inc.		140
Bula Potato Farms, Inc.		44
Fleischman, David Farms		58
Gallenberg Farms, Inc.		66
Guenthner Farms, Inc.		24
Hafner Seed Farms, Inc.		30
Hartman Farms, Inc.		26
Kakes Farms, Ltd.		26
Schroeder Bros. Farms, Inc		184
Seidl Farms, Inc.		56
Vermont Valley Community Farm		1
Total Acres Passed		653
Jacqueline Lee	LICENSED VARIETY	
Zeloski, Felix Farms		*
Jelly	LICENSED VARIETY	
Baginski, Ted & Sons, Inc.		13
Kea	LICENSED VARIETY	
Zeloski, Felix Farms		*

Kennebec		
Gallenberg, Darwin & David		8
Vermont Valley Community Farm		*
Total Acres Passed		8
Lamoka	LICENSED VARIETY	
Hafner Seed Farms, Inc.		1
Mattek, J. W. & Sons, Inc.		95
Northern Sand Farms		1
Rine Ridge Farms, Inc.		81
Schroeder Bros. Farms, Inc		14
Schroeder Farms, Ltd.		92
Wirz, Inc.		2
Zeloski, Felix Farms		25
Total Acres Passed		310
Langlade		
Guenthner Farms, Inc.		29
Magic Molly		
Vermont Valley Community Farm		*
Marcy	LICENSED VARIETY	
Rine Ridge Farms, Inc.		9
MegaChip	LICENSED VARIETY	
Baginski, Ted & Sons, Inc.		17
Gallenberg Farms, Inc.		27
Mattek, J. W. & Sons, Inc.		58
Rine Ridge Farms, Inc.		115
Schroeder Bros. Farms, Inc		4
Schroeder Farms, Ltd.		16
Wirz, Inc.		29
Total Acres Passed		267
Mercury Russet	LICENSED VARIETY	
Bula Potato Farms, Inc.		2
Merlot	LICENSED VARIETY	
Zeloski, Felix Farms		*
Molli	LICENSED VARIETY	
Bula Potato Farms, Inc.		13
MSK061-4	LICENSED VARIETY	
Zeloski, Felix Farms		5
MSQ086-3	LICENSED VARIETY	
Zeloski, Felix Farms		1
Nicolet (W2133-1)	LICENSED VARIETY	
Northern Sand Farms		2
Rine Ridge Farms, Inc.		3
Sowinski Farms, Inc.- Cert. Seed		23
Wirz, Inc.		14
Total Acres Passed		42

Norland (Dark Red Selection)	
Baginski, Ted & Sons, Inc.	71
Bula Potato Farms, Inc.	35
Fleischman, David Farms	86
Gallenberg, Darwin & David	4
Gallenberg Farms, Inc.	82
Hartman Farms, Inc.	75
Schroeder Bros. Farms, Inc.	159
Schroeder Farms, Ltd.	298
Sunnydale Farms, Inc.	88
Vermont Valley Community Farm	1
Zeloski, Felix Farms	20

Total Acres Passed	918
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Norland (Red Selection)	
Baginski, Ted & Sons, Inc.	61
Fleischman, David Farms	57
Hartman Farms, Inc.	29
Schroeder Bros. Farms, Inc.	48
Seidl Farms, Inc.	29
Sunnydale Farms, Inc.	10
Zeloski, Felix Farms	59

Total Acres Passed	292
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Oneida Gold (W6703-1Y)	LICENSED VARIETY
Gallenberg Farms, Inc.	23

Peter Wilcox	
Vermont Valley Community Farm	*

Pike	
Mattek, J. W. & Sons, Inc.	94
Rine Ridge Farms, Inc.	23
Schroeder Bros. Farms, Inc.	54
Wirz, Inc.	40

Total Acres Passed	211
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Pinnacle (W5015-12)	LICENSED VARIETY
Hafner Seed Farms, Inc.	1
Mattek, J. W. & Sons, Inc.	4
Northern Sand Farms	17

Total Acres Passed	22
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POR02PG37-2	LICENSED VARIETY
Bula Potato Farms, Inc.	*

Princess	LICENSED VARIETY
Bula Potato Farms, Inc.	*

Purple Pelisse	LICENSED VARIETY
Zeloski, Felix Farms	*

Purple Peruvian	LICENSED VARIETY
Zeloski, Felix Farms	*

Reba	
Guenther Farms, Inc.	10

Red Endeavor (W6002-1R)	LICENSED VARIETY
Baginski, Ted & Sons, Inc.	1
Gallenberg Farms, Inc.	12
Hartman Farms, Inc.	1
Schroeder Bros. Farms, Inc.	2
Sunnydale Farms, Inc.	2
Vermont Valley Community Farm	*
Zeloski, Felix, Farms	*

Total Acres Passed	18
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Red LaSoda	
Mach's Sunny Acres, Inc.	25
Wild Seed Farms, Inc.	13

Total Acres Passed	38
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Red LaSoda 10-3	
Guenther Farms, Inc.	59
Mach's Sunny Acres, Inc.	23
Wild Seed Farms, Inc.	48

Total Acres Passed	129
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Red Maria	LICENSED VARIETY
Vermont Valley Community Farm	*

Red Pontiac	
Gallenberg, David	2

Rose Finn Apple	
Zeloski, Felix, Farms	1

Russet Burbank	
Baginski, Ted & Sons, Inc.	35
Northern Sand Farms	1
Schroeder Farms, Ltd.	39

Total Acres Passed	75
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Russet Norkotah	
Baginski, Ted & Sons, Inc.	36
Fleischman, David Farms	144
Hafner Seed Farms, Inc.	75
Hartman Farms, Inc.	29
Mattek, J.W. & Sons, Inc.	21
Seidl Farms, Inc.	41

Total Acres Passed	345
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Russet Norkotah Sel 8	LICENSED VARIETY
Baginski, Ted & Sons, Inc.	39
Mattek, J.W. & Sons, Inc.	14
Schroeder Bros. Farms, Inc.	149
Zeloski, Felix, Farms	*

Total Acres Passed	202
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Russet Norkotah TX296 **LICENSED VARIETY**
Schroeder Bros. Farms, Inc. 64

Russet Sebago
Gallenberg, Darwin & David 1

Silverton **LICENSED VARIETY**
Baginski, Ted & Sons, Inc. 17
Bula Potato Farms, Inc. 117
Bushman's Riverside Ranch, Inc. 405
Hafner Seed Farms, Inc. 15
Mattek, J.W. & Sons, Inc. 75
Schroeder Bros. Farms, Inc. 58
Schroeder Farms, Ltd. 10
Zeloski, Felix, Farms 20

Total Acres Passed 717

Snowbird **LICENSED VARIETY**
Guenthner Farms, Inc. 10

Snowden
Hafner Seed Farms, Inc. 43
Kakes Farms, Ltd. 29
Mattek, J.W. & Sons, Inc. 252
Northern Sand Farm 24
Schroeder Bros. Farms, Inc. 59
Seidl Farms, Inc. 50
Sowinski Farms, Inc.- Cert. Seed 50
Sunnydale Farms, Inc. 42
Wild Seed Farms, Inc. 25
Wirz, Inc. 115

Total Acres Passed 689

Soraya **LICENSED VARIETY** *
Zeloski, Felix, Farms

Superior
Baginski, Ted & Sons, Inc. 65
Bula Potato Farms, Inc. 20
Fleischman, David Farms 38
Gallenberg Farms, Inc. 57
Hafner Seed Farms, Inc. 39
Hartman Farms, Inc. 22
Mach's Sunny Acres, Inc. 16
Schroeder Bros. Farms, Inc. 29
Sunnydale Farms, Inc. 18
Vermont Valley Community Farm 1
Wild Seed Farms, Inc. 23

Total Acres Passed 327

Sylvana **LICENSED VARIETY**
Bula Potato Farms, Inc. 1

Teton Russet (A008-ITE) **LICENSED VARIETY**
Guenthner Farms, Inc. 7

Tundra (W2310-3) **LICENSED VARIETY**
Northern Sand Farms 19

Umatilla Russet **LICENSED VARIETY**
Northern Sand Farms 3

US-Blue **LICENSED VARIETY**
Zeloski, Felix Farms 1

W6234-4rus **MTA REQUIRED - TRIAL ONLY**
Bula Farms, Inc. 10

W10252-1PW-Fing **LICENSED VARIETY** *
Zeloski, Felix Farms

W9962-1RY/Y **LICENSED VARIETY** *
Zeloski, Felix Farms

W9979-1YR/Y **LICENSED VARIETY** *
Zeloski, Felix Farms

Waneta (NY-138) **LICENSED VARIETY**
Sowinski Farms, Inc.- Cert. Seed 2

Wega **LICENSED VARIETY** *
Zeloski, Felix Farms

Yukon Gold
Bula Potato Farms, Inc. 24
Fleischman, David Farms 75
Gallenberg, Darwin & David 7
Sunnydale Farms, Inc. 54
Vermont Valley Community Farm 1

Total Acres Passed 161

Frito-Lay varieties **LICENSED VARIETIES**
Total Acres Passed 2,172

UW Breeding Station lines *

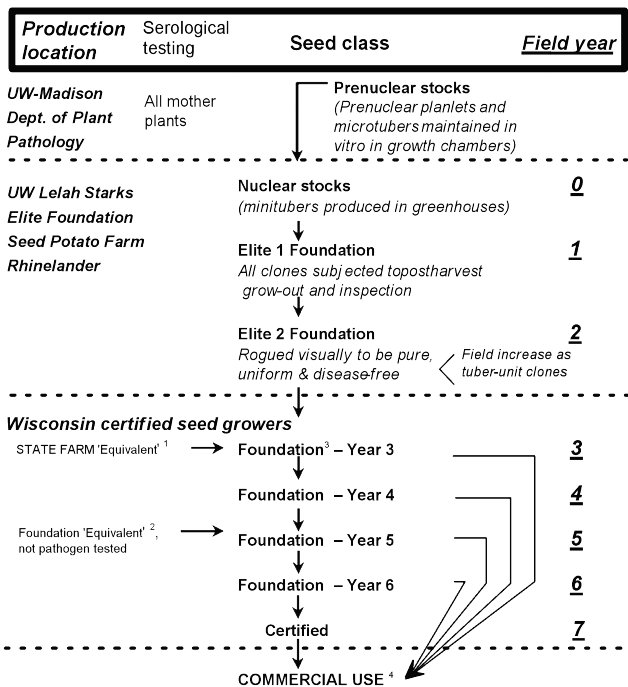
Total Acres Passed - All Varieties 8,648



Two Lockwood harvesters digging on the "Antigo Flats."

WISCONSIN GENERATION SYSTEM

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



¹ May regenerate by tuber-unit planting plus pathogen testing. ² May regenerate by tuber-unit planting. ³ "Foundation" means eligible for continued use in seed production; may also be sold for fresh market or for processing. ⁴ Sold as Foundation or Certified class seed. Either class must meet blue or yellow tag grade requirements when shipped. The Badger State Brand blue tag meets or exceeds the U.S. No. 1 Seed Potato Grade. The yellow tag represents a second grade with greater tolerances for external defects.

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
Field Planting Equivalency Table¹
Certification Section of the Potato Association of America

Agency	YEAR IN THE FIELD							
	1 ²	2	3	4	5	6	7	8
Alaska	G1 ³	G2	G3	G4	G5	G6	G7	G8
California	G1	G2	G3	G4	G5	...	...	...
Colorado	G1	G2	G3	G4	G5	G6	...	...
Idaho	N	G1	G2	G3	G4	G5	G6	...
Maine	FY1	FY2	FY3	FY4	FY5	FY6	...	...
Michigan ⁵	FY1	FY2	FY3	FY4	FY5	FY6	...	...
Minnesota	G1	G2	G3	G4	G5	G6	C	...
Montana	N	G1	G2	G3	G4	...	...	...
Nebraska/ Wyoming	N	G1	G2	G3	G4	G5	...	...
Nevada	N	G1	G2	G3	G4	G5	...	...
New York ⁴	N1	N2	N3	G1	G2	G3	G4	G5
North Dakota	N	G1	G2	G3	G4	G5	C	...
Oregon	N	G1	G2	G3	G4	G5	...	...
Utah	N(G1)	G2	G3	G4	G5	G6	...	...
Washington	N	G1	G2	G3	G4	G5	...	...
Wisconsin ⁵	FY1	FY2	FY3	FY4	FY5	FY6	C	...
Canada	PE	E1	E2	E3	E4	F	C	...
	(G1)	(G2)	(G3)	(G4)	(G5)	(G6)	(G7)	

Revision Date: June 2012

¹The 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.

²The 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.

³Term used by agency for seed potatoes for a particular year in the field: C=certified, E=elite, F=foundation, G=generation, N=nuclear, PE=pre-elite.

⁴If lots originate at Cornell-Uihlein Farm, the first three generations (G1-G3) are also designated by a AU@ to denote source.

⁵FY = 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

Seed piece spacing (in.)	32" Row Spacing			
	Seed piece weight (oz.)			
	1	1&1/2	1&3/4	2
Seed required (cwt)				
6	20.4	30.6	35.7	40.8
8	15.3	23.0	26.8	30.6
10	12.3	18.4	21.4	24.5
12	10.2	15.3	17.9	20.4
15	8.2	12.3	14.3	16.3

Seed piece spacing (in.)	34" Row Spacing			
	Seed piece weight (oz.)			
	1	1&1/2	1&3/4	2
Seed required (cwt)				
6	19.2	28.8	33.6	38.4
8	14.4	21.6	25.2	28.8
10	11.4	17.4	20.4	22.8
12	9.6	14.4	16.8	19.2
15	7.8	11.4	13.8	15.6

Seed piece spacing (in.)	36" Row Spacing			
	Seed piece weight (oz.)			
	1	1&1/2	1&3/4	2
Seed required (cwt)				
6	18.0	27.0	31.8	36.6
8	13.8	20.4	24.0	27.0
10	10.8	16.2	19.2	21.6
12	9.0	13.8	15.6	18.0
15	7.2	10.8	12.6	14.4

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

$$^{\circ}\text{C} = \frac{^{\circ}\text{F} - 32}{1.8}$$

$$^{\circ}\text{F} = (^{\circ}\text{C} \times 1.8) + 32$$



Estimating Potato Yields

Dig potatoes from several 10-foot lengths of row (at least 5) and determine the average weight before estimating yield from table below.

Yield per 10 ft of row (lbs)	Row spacing (in.)		
	32	34	36
Estimated yield per acre (cwt)			
12	196	184	174
13	212	200	189
13.5	221	208	196
14	229	215	203
14.5	237	223	211
15	245	230	218
15.5	253	238	225
16	262	246	232
16.5	269	254	239
17	278	262	247
17.5	286	269	254
17.5	286	269	254
18	294	277	262
18.5	302	284	269
19	310	292	276
19.5	319	300	283
20	326	307	290
20.5	335	315	298
21	343	323	305
21.5	351	331	312
22	359	338	319
22.5	368	346	326
23	376	353	334
23.5	384	361	341
24	392	369	349
24.5	400	377	356
25	409	385	363
25.5	416	392	370
26	425	400	377
26.5	433	407	385
27	441	415	392
27.5	449	423	400
28	457	430	407
28.5	466	438	414
29	474	446	421
29.5	482	454	428
30	490	461	436
31	506	476	450
32	523	492	464
33	539	508	479
34	556	523	494
35	572	538	508
36	588	553	522
37	605	569	537
38	621	584	551
39	638	600	566
40	654	615	580
41	670	630	594
42	687	646	609
43	703	661	623



**Red Endeavor
(W6002-1R)**

- Uniform round tubers, shallow eyes
- Bright white flesh with few internal defects
- Medium red color retained in storage
- High yield potential, long dormancy



**Oneida Gold
(W6703-1Y)**

- Bright yellow skin with slight netting
- Medium yellow flesh
- High yield potential, full-season
- Superior tolerance to common scab

New varieties from the University of Wisconsin Breeding Program

For variety information, contact Jeff Endelman (endelman@wisc.edu, 608-250-0754)
For licensing information, contact Emily Bauer (emily@warf.org, 608-262-8638)
Check crop directory for sources of certified seed



395 W Hwy 39, Blackfoot ID
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