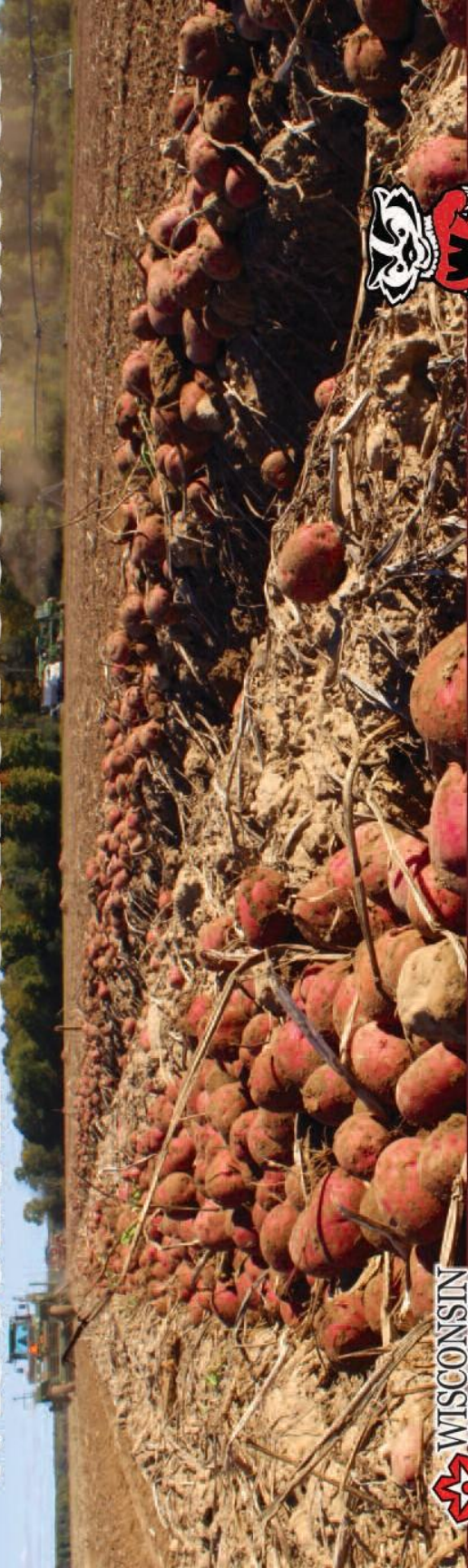


Wisconsin Certified Seed Potatoes



2016 CROP DIRECTORY

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New varieties from the University of Wisconsin Breeding Program



Hodag
(WS955-1)

- Specific gravity similar to Snowden Stores 4-6
- weeks longer than Snowden
- Resistant to common scab & *Verticillium* wilt
- Large tubers, mild hollow heart in some environments



Oneida Gold
(W6703-1Y)

- Bright yellow skin, some netting
- Moderate resistance to common scab
- Extreme resistance to hollow heart
- Total yield similar to Yukon Gold, with 30-50% more tubers

For more information, contact Jeff Endelman (endelman@wisc.edu)
or visit
<http://potatobreeding.cals.wisc.edu/varieties>.



WISCONSIN CERTIFIED SEED POTATOES

102 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.

A reliable source of high-quality, disease-free basic seed stocks remains essential to the strength and growth of Wisconsin's certified seed potato program. 75 years ago, the University of Wisconsin established an elite seed potato operation in Three Lakes, WI.

In 1941, propagation of disease-free stock and attention to clonal selection were key to the early success of this program making Wisconsin a leading supplier of seed potato varieties.

In 1984, a 1000 acre property became home of the UW farm operation at the bequest of Miss Lelah Starks, a pioneer Wisconsin seed potato grower.

The Lelah Starks Elite Foundation Seed Potato Farm in Rhinelander has provided parity in germplasm availability for all Wisconsin seed growers. A trusted source, the program remains the Wisconsin seed potato growers' primary source of new and established potato varieties.

The farm operation grows 93 acres of field generations one and two seed, operates 4 greenhouses producing conventional and NFT minitubers. Our stewardship of this seed continues through the certification of these seed lots on Wisconsin seed grower farms, there is no other program like it.

The program maintains variety trueness to type; selecting and testing clones, rogueing of weak, genetic variants, and diseased plants to continue to develop and maintain germplasm of your favorite varieties at our laboratory.

A Century Long Tradition

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.

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.

Strict Standards: 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.
- Incidence of Blackleg at second inspection is indicated on the North American Seed Potato Health Certificates. Wisconsin has been reporting Blackleg incidence for many years, these percentages are based on an official plant count.
- Testing protocols for Dickeya are currently being developed and we will perform PCR testing for our growers per the request of commercial and seed customers. Please contact your grower to request testing as soon as possible to avoid delays.

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 2016 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

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 CERTIFICATION TOLERANCES

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.

Wisconsin is still primarily visual in the post harvest test readings except for latent and problematic varieties. Beginning in Certification Year 2016, half of all seed lots will be ELISA tested for PVY.

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. The number of plants in a count generally far exceeds the Statute minimum of 100 plants per acre.

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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George Neuber (Equip Operator) Mobile 715-216-9031

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).

Back Row (L-R) Josie Spurgeon, Terry Rolefson, Alex Crockford, Barry Eckardt, Jim Meyer, Keith Heinzen, Kevin Bula, Molly Mortiz, Rebecca Cowan, Andy Witherell, George Neuber, Travis Eckardt

Front row (L-R) Josh Kunzman, Jerry Kuzmarski, Rose Heinzen, Ana Yaipan, Dr. Amy Charkowski, Pat Ridderbusch, Brooke Babler, Dianna Kessler, Sean Toporek, Erin Hutchins.

WISCONSIN SEED POTATO IMPROVEMENT ASSOCIATION



The 2016 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
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N3474 County H, Antigo, WI 54409

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Mike Baginski Cell 715-216-1240

Email mike@baginskifarms.com

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CETS LLC AstroTubers TM

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FAX 715-365-1620

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Gallenberg Farms, Inc.

W7932 Edison Rd, Bryant, WI 54418

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John Gallenberg 715-623-2295

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Email rgallenberg@hotmail.com

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Dwayne Guenthner 715-627-0403

Bill Guenthner 715-627-2792

Tom Schmidt 715-216-1953

FAX 715-627-0507

Guenthner Potato Co., Inc.

P.O. Box 320, Antigo, WI 54409

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FAX 715-623-7127

Robert Guenthner 715-623-7877

Email rhodagpci@gmail.com

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FAX 715-623-4203

David Hafner 715-623-6902

John Hafner 715-623-6829

Hartman Farms, Inc.

N2846 County HH, Antigo, WI 54409

Michael Hartman Home 715-623-7083

Michael Hartman Cell 715-219-1802

Todd Hartman 715-610-6477

John Hartman 715-216-2059

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W8539 Kakes Rd., Bryant, WI 54418

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Dan Kakes 715-623-7268

Dan Kakes Cell 715-216-6348

FAX 715-623-4614

Mach's Sunny Acres, Inc.

3236 County HH, Antigo, WI 54409

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FAX 715-623-5882

Ronald Mach 715-623-6855

Kenneth Mach 715-627-4187

Email rmach73@gmail.com

Mattek, J. W. & Sons, Inc.

N5798 Star Neva Rd., Deerbrook, WI 54424
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FAX 715-627-7245
Jim Mattek 715-623-7391
John Mattek 715-623-6864
Joe Mattek 715-623-3156
Mobile 715-216-0599
Email jwmattek@gmail.com

Northern Sand Farms

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David Bula 715-478-3349
Ed Bula 715-478-3437

Rine Ridge Farms, Inc.

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FAX 715-627-4810
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Dan's Mobile 715-216-0765
Email rinerdg@yahoo.com

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N1435 County D, Antigo, WI 54409
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Pete Schroeder 715-627-4069
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FAX 715-623-4377
Art Seidl 715-623-6236
Frank Seidl 715-484-2052
Jeff Fassbender 715-216-4433

Sowinski Farms, Inc. - Certified Seed

4698 Tenderfoot Road, Rhinelander, WI 54501
Paul Sowinski 715-272-1192
John Hein, Seed Mgr. Cell 715-401-0408
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FAX 715-369-3226
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Sunnydale Farms, Inc.
W9751 County I, Bryant, WI 54418
Farm 715-627-7401
Mike Shafel Cell 715-216-4531
James Shafel Cell 715-216-4532
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Vermont Valley Community Farm LLC
Organic Seed Potatoes
4628 CTH FF, Blue Mounds, WI 53517
David or Jesse Perkins 608-212-7816
Email potato@vermontvalley.com
Website www.organicpotatoseed.com

Wild Seed Farms, Inc.
W9797 Cherry Rd., Antigo, WI 54409
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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

Recent UW 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.



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 7<-DD-B; :FCA 48T #C 7 Aonths. 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.



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.



Hodag (W5955-1): A long storage potato chipping clone with resistance to common scab and Verticillium wilt. Specific gravity similar to Snowden.

For Trial Evaluation Purposes



W6609-3: Long storage chipping line with resistance to common scab. A unique combination of common scab resistance and tubers that frying color and quality after being stored in cold storages from September through April



W8405-1R Very smooth and uniform tuber size, round-oval tuber shape, shallow eyes, and nice red skin color that is maintained in storage, stores well

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

Don't bet your farm on untested
Check the winter test results and Begin

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, too, if you spent
wait.



- 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.
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Lamoka

REDS:

Red Norlands

Dark Red Norlands

Red Endavor

RUSSETS:

Russet Burbank

Norkotahs

Russet Norkotah C08

Silverton

296 Norkotah

Goldrush

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WHITES – Superiors

RUSSETS – Goldrush, Russet Norkotah

REDS – Red Norland, Dark Red Norland

715-622-6252 Cell: 715-216-2242 Fax: 715-627-0192



Sowinski Certified Seed Farms

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

Varieties Grown

Atlantic
Snowden Waneta
Lamoka Pinnacle

sfiseedfarm@gmail.com

"CERTIFIED SEED POTATOES"
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MICHAEL SHAFEL
W9751 COUNTY I
BRYANT, WI 54418

CELL: 715-216-4531
PHONE: 715-627-7401
FAX: 715-627-4114

email: sunnydaleseed@yahoo.com



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Toll Free: 866-257-7739 • Local: 715-627-7739

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 2016

Accumulator (W2324-1) Mach's	LICENSED VARIETY	
Sunny Acres, Inc Mattek,		14
J. W. & Sons, Inc.		15
Total Acres Passed		29
Adirondack Blue	LICENSED VARIETY	
Gallenberg, Darwin & David		10
Sunnydale Farms, Inc.		*
Vermont Valley Community Farm		*
Total Acres Passed		10
Adirondack Red	LICENSED VARIETY	
Gallenberg, Darwin & David		1
Vermont Valley Community Farm		*
Total Acres Passed		1
Alegria	LICENSED VARIETY	
Eagle River Seed Farm LLC		*
All Blue		
Vermont Valley Community Farm		*
Amarosa	LICENSED VARIETY	
Eagle River Seed Farm, LLC		*
Anuschka		
Baginski Farms, Inc.		4
Atlantic		
Eagle River Seed Farm, LLC		7
Hafner Seed Farms, Inc.		49
Kakes Farms, Ltd.		63
Mach's Sunny Acres, Inc.		22
Mattek, J. W. & Sons, Inc.		136
Schroeder Bros. Farms, Inc		77
Seidl Farms, Inc.		44
Sowinski Farms, Inc.- Cert. Seed		72
Sunnydale Farms, Inc.		29
Wild Seed Farms, Inc.		156
Wirz, Inc.		50
Total Acres Passed		705

Austrian Crescent	LICENSED VARIETY	
Eagle River Seed Farm, LLC		1
Gallenberg, Darwin & David		1
Vermont Valley Community Farm		*
Total Acres Passed		2
B2727-2	LICENSED VARIETY	
Eagle River Seed Farm, LLC		1
Beacon Chipper	LICENSED VARIETY	
Eagle River Seed Farm LLC		1
Mattek, J. W. & Sons, Inc.		18
Total Acres Passed		18
Caribou Russet	LICENSED VARIETY	
Bula Potato Farms, Inc.		*
Carola		
Vermont Valley Community Farms		1
CW08370-2RY/W	LICENSED VARIETY	
Eagle River Seed Farm, LLC		*
Elfe	LICENSED VARIETY	
Baginski Farms, Inc.		31
French Fingerling		
Vermont Valley Community Farm		1
German Butterball		
Gallenberg, Darwin & David		1
Vermont Valley Community Farm		*
Total Acres Passed		1
Goldrush		
Baginski Farms, Inc. Bula		136
Potato Farms, Inc. Eagle		43
River Seed Farm, LLC		*
Fleischman, David Farms		47
Gallenberg Farms, Inc.		60
Guenthner Farms, Inc.		32
Hafner Seed Farms, Inc.		24
Hartman Farms, Inc.		29
Kakes Farms, Ltd.		29
Schroeder Bros. Farms, Inc		183
Seidl Farms, Inc.		52
Vermont Valley Community Farm		*
Total Acres Passed		636
Hodag (W5955-1)	LICENSED VARIETY	
Eagle River Seed Farm LLC		1
Mattek, J.W. & Sons, Inc.		11
Northern Sand Farms		5
Rine Ridge Farms, Inc.		4
Total Acres Passed		21
Jelly	LICENSED VARIETY	
Baginski Farms, Inc.		32

Kennebec	
Gallenberg, Darwin & David	8
Vermont Valley Community Farm	*
Total Acres Passed	8
Lamoka	
	LICENSED VARIETY
Eagle River Seed Farm, LLC	1
Hafner Seed Farms, Inc.	3
Mattek, J. W. & Sons, Inc.	200
Northern Sand Farms	17
Rine Ridge Farms, Inc.	182
Schroeder Bros. Farms, Inc.	157
Sowinski Farms, Inc.- Cert. Seed	35
Wirz, Inc.	37
Total Acres Passed	631
Langlade	
Guenthner Farms, Inc.	20
Magic Molly	
Vermont Valley Community Farm	1
Malou	
	LICENSED VARIETY
Baginski Farms, Inc.	1
Manistee	
	LICENSED VARIETY
Eagle River Seed Farm, LLC	2
Mattek, J. W. & Sons, Inc.	3
Total Acres Passed	5
Marcy	
	LICENSED VARIETY
Rine Ridge Farms, Inc.	13
MegaChip	
	LICENSED VARIETY
Gallenberg Farms, Inc.	25
Mattek, J. W. & Sons, Inc.	36
Rine Ridge Farms, Inc.	59
Schroeder Bros. Farms, Inc.	18
Wirz, Inc.	28
Total Acres Passed	166
Mercury Russet	
	LICENSED VARIETY
Eagle River Seed Farm, LLC	*
Mattek, J. W. & Sons, Inc.	22
Total Acres Passed	22
Modoc	
	LICENSED VARIETY
Eagle River Seed Farm LLC	*
Molli	
	LICENSED VARIETY
Bula Potato Farms, Inc.	8
Mountain Gem	
	LICENSED VARIETY
Bula Potato Farms, Inc.	*

MSV301-2	LICENSED VARIETY	
Eagle River Seed Farm, LLC		1
MSV358-3	LICENSED VARIETY	
Eagle River Seed Farm, LLC		2
MSW485-2	LICENSED VARIETY	
Eagle River Seed Farm, LLC		2
MSW509-5	LICENSED VARIETY	
Eagle River Seed Farm, LLC		2
NOC349-3	LICENSED VARIETY	
Eagle River Seed Farm, LLC		1
Nicolet (W2133-1)	LICENSED VARIETY	
Northern Sand Farms		13
Sowinski Farms, Inc.- Cert. Seed		*
Total Acres Passed		13
NY152		
Guenthner Potato Co. Inc.		1
Norland (Dark Red Selection)		
Baginski Farms, Inc.		52
Bula Potato Farms, Inc.		30
Eagle River Seed Farm LLC		1
Fleischman, David Farms		113
Gallenberg, Darwin & David		3
Gallenberg Farms, Inc.		62
Hartman Farms, Inc.		50
Schroeder Bros. Farms, Inc.		57
Schroeder Farms, Ltd.		295
Sunnydale Farms, Inc.		100
Vermont Valley Community Farm		2
Total Acres Passed		766
Norland (Dark Red Z Selection)		
Eagle River Seed Farm LLC		28
Norland (Red Selection) Baginski,		
Ted & Sons, Inc. Eagle River		56
Seed Farm LLC Fleischman,		41
David Farms Hartman		58
Farms, Inc Schroeder Bros.		25
Farms, Inc.		75
Seidl Farms, Inc.		31
Sunnydale Farms, Inc.		17
Total Acres Passed		303
Oneida Gold (W6703-1Y)	LICENSED VARIETY	
Fleischman, David Farms		15
Gallenberg Farms, Inc.		27
Hartman Farms, Inc		8
Sunnydale Farms, Inc.		10
Vermont Valley Community Farm		1
Total Acres Passed		60
Payette Russet	LICENSED VARIETY	
Bula Potato Farms, Inc.		*

Peter Wilcox		
Vermont Valley Community Farm		1
Pike		
Mattek, J. W. & Sons, Inc.		82
Rine Ridge Farms, Inc.		16
Schroeder Bros. Farms, Inc.		48
Wirz, Inc.		47
Total Acres Passed		192
Pinnacle (W5015-12)	LICENSED VARIETY	
Hafner Seed Farms, Inc.		16
Mattek, J. W. & Sons, Inc.		16
Northern Sand Farms		21
Sowinski Farms, Inc.- Cert. Seed		2
Total Acres Passed		53
Princess	LICENSED VARIETY	
Bula Potato Farms, Inc.		2
Purple Peruvian (RPE-A)	LICENSED VARIETY	
Eagle River Seed Farm, LLC		*
Ranger Russet ST116-3		
Eagle River Seed Farm, LLC		2
Ranger Russet ST125-10		
Eagle River Seed Farm, LLC		2
Ranger Russet ST125-13		*
Eagle River Seed Farm, LLC		
Ranger Russet ST125-8		1
Eagle River Seed Farm, LLC		
Reba		
Guenthner Farms, Inc.		15
Red Endeavor (W6002-1R)	LICENSED VARIETY	
Gallenberg Farms, Inc.		22
Hartman Farms, Inc.		28
Schroeder Bros. Farms, Inc.		3
Vermont Valley Community Farm		*
Total Acres Passed		53
Red Gold	LICENSED VARIETY	
Sunnydale Farms, Inc		1
Vermont Valley Community Farm		1
Total Acres Passed		2
Red LaSoda 10-3		
Guenthner Farms, Inc.		57
Mach's Sunny Acres, Inc.		34
Wild Seed Farms, Inc.		55
Total Acres Passed		145
Red Pontiac		
Gallenberg, David		2

Russet Burbank	
Baginski Farms, Inc.	32
Schroeder Bros. Farms, Inc.	32
Total Acres Passed	64
Russet Norkotah	
Fleischman, David Farms	80
Hafner Seed Farms, Inc.	43
Hartman Farms, Inc.	31
Seidl Farms, Inc.	39
Total Acres Passed	192
Russet Norkotah Sel 8	LICENSED VARIETY
Baginski Farms, Inc.	49
Eagle River Seed Farm, LLC	3
Mattek, J.W. & Sons, Inc.	9
Schroeder Bros. Farms, Inc.	121
Schroeder Farms, Ltd.	26
Total Acres Passed	208
Russet Norkotah TX296	LICENSED VARIETY
Schroeder Bros. Farms, Inc.	67
Russian Banana	LICENSED VARIETY
Baginski Farms, Inc.	6
Eagle River Seed Farm, LLC	1
Total Acres Passed	7
Silverton	LICENSED VARIETY
Baginski Farms, Inc.	46
Bula Potato Farms, Inc.	102
Bushman's Riverside Ranch, Inc.	382
Eagle River Seed Farm LLC	1
Hafner Seed Farms, Inc.	35
Mattek, J.W. & Sons, Inc.	131
Schroeder Bros. Farms, Inc.	13
Schroeder Farms, Ltd.	64
Total Acres Passed	837
Snowden	
Hafner Seed Farms, Inc.	38
Kakes Farms, Ltd.	41
Mattek, J.W. & Sons, Inc.	229
Northern Sand Farm	19
Schroeder Bros. Farms, Inc.	64
Schroeder Farms, Ltd.	13
Seidl Farms, Inc.	52
Sowinski Farms, Inc.- Cert. Seed	18
Sunnydale Farms, Inc.	35
Wild Seed Farms, Inc.	24
Wirz, Inc.	109
Total Acres Passed	641

Soraya	LICENSED VARIETY	
Baginski Farms, Inc.		11
Eagle River Seed Farm, LLC		3
Schroeder Bros. Farms, Inc.		14
Total Acres Passed		28
Superior		
Baginski Farms, Inc. Bula		65
Potato Farms, Inc.		14
Fleischman, David Farms		29
Gallenberg Farms, Inc.		62
Hafner Seed Farms, Inc.		36
Hartman Farms, Inc.		21
Mach's Sunny Acres, Inc.		16
Schroeder Bros. Farms, Inc.		25
Sunnydale Farms, Inc.		15
Vermont Valley Community Farm		1
Wild Seed Farms, Inc.		24
Total Acres Passed		307
Teton Russet (A008-ITE)	LICENSED VARIETY	
Guenthner Farms, Inc.		12
Tundra (W2310-3)	LICENSED VARIETY	
Northern Sand Farms		1
Umatilla Russet	LICENSED VARIETY	
Bula Potato Farms, Inc.		3
Vitelotte	LICENSED VARIETY	
Eagle River Seed Farm, LLC		*
W10250-1PW/WP	LICENSED VARIETY	
Eagle River Seed Farm, LLC		1
W10251-1P/PW-Fing	LICENSED VARIETY	
Eagle River Seed Farm, LLC		*
W6609-3	MTA REQUIRED – TRIAL ONLY	
Mattek, J.W. & Sons, Inc.		2
Northern Sand Farms		8
Rine Ridge Farms, Inc.		3
Total Acres Passed		13
W8405-1R	MTA REQUIRED – TRIAL ONLY	
Gallenberg Farms, Inc.		2
Sunnydale Farms, Inc.		*
Vermont Valley Community Farm		*
Total Acres Passed		2
W9962-1RY/Y	LICENSED VARIETY	
Eagle River Seed Farm, LLC		4
Waneta (NY-138)	LICENSED VARIETY	
Sowinski Farms, Inc.- Cert. Seed		3

Wega	LICENSED VARIETY	
Bula Potato Farms, Inc.		12
Eagle River Seed Farm, LLC		1
Total Acres Passed		13
Wendy	LICENSED VARIETY	
Eagle River Seed Farm LLC		*
White Pearl	LICENSED VARIETY	
Northern Sand Farm		16
Wirz, Inc.		*
Total Acres Passed		16
Yukon Gold		
Bula Potato Farms, Inc.		24
Fleischman, David Farms		106
Gallenberg, Darwin & David		5
Sunnydale Farms, Inc.		25
Vermont Valley Community Farm		*
Total Acres Passed		160
Frito-Lay varieties	LICENSED VARIETIES	
Total Acres Passed		2219
UW Breeding Station lines		2
Total Acres Passed - All Varieties		8,874

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

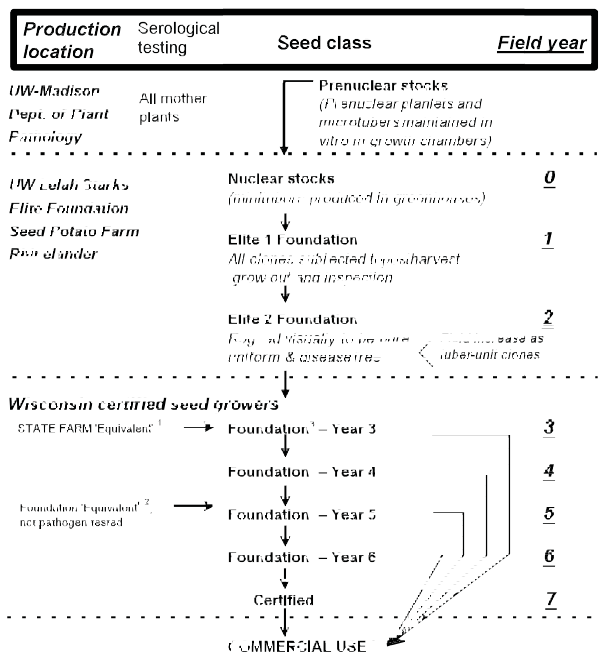
$$^{\circ}\text{C} = \frac{^{\circ}\text{F} - 32}{1.8}$$

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



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 Rhineland, 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 ⁶	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.

^{5,6}FY = Foundation Year (Wisconsin), Field Year (Michigan).

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	446	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

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