



**2023 – 2024
POTATO
SEED GUIDE**

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Table of Contents

page 3	Benefits of Buying Manitoba Seed
page 3/4	Canadian Seed Certification Program
page 5	Post Harvest Test
page 7	Tuber Quality Standards
page 8/9	Seed Class, Variety and Identification
page 10	Food Safety Assurance
page 11	Notice to Buyer
page 12/13	Red Seed Potato Varieties
page 14/15/16	Russet Seed Potato Varieties
page 17	White Seed Potato Varieties
page 18/19	Yellow Seed Potato Varieties
page 19	Red Skin/Yellow Flesh Potato Varieties
page 20	Specialty Seed Potato Varieties
page 21	Seed Grower Contact Information

Seed Potato Growers Association of Manitoba Members

A & M Farm Ventures

Adriaansen Farms Ltd.

ESPO Farms Ltd.

Haskett Growers Ltd.

Kroeker Farms Ltd.

Northern Seed Potatoes

Randy & David Baron Seed

RTR Farm Ventures

Southern Potato Co. Inc.

Spruce Drive Farms Ltd.

Spud Plains Farms Ltd.

Swansfleet Alliance

BENEFITS OF BUYING MANITOBA GROWN SEED POTATOES

- All seed potatoes produced in Manitoba originate with pathogen-free nuclear seed stocks.
- All classes receive a minimum of 2 field inspections during the growing season.
- All Elite 2, Elite 3, Elite 4 and Foundation Classes of seed produced in Manitoba are post-harvest 2017- tested in the laboratory for Bacterial Ring Rot before it is sold.
- Many seed lots produced in Manitoba are post-harvest tested during the winter in a southern climate or lab tested. (The results of this test are available from the grower in late February.)
- Most of the Manitoba grown seed potatoes are produced under an abbreviated generation system. (i.e. Elite 3 and Elite 4 seed have become the main classes of seed planted for commercial potato production.)
- Seed potato growers in Manitoba have extensive experience producing seed potatoes.

THE CANADIAN SEED POTATO CERTIFICATION PROGRAM

Seed potato certification in Canada is a national program, which is implemented and administered by the Canadian Food Inspection Agency of Agriculture and Agri-Food Canada.

The regulatory authority for the certification of seed potatoes is contained under Part II of the Seeds Regulations. (Registration SOR/97-118).

Canada's seed potato certification program is designed to regulate both the varietal purity and health of seed stocks. The most important features of the program are:

1. **DISEASE-FREE NUCLEAR SEED:** All seed potatoes produced in Canada originate with nuclear stocks which are produced under sterile conditions from plant tissue cultures that have been subjected to laboratory tests and found free of disease causing pathogens.
2. **LIMITED FIELD GENERATIONS:** Seed potatoes CANNOT be propagated in the field for more than seven generations (seven years). The first field generation, which is produced from nuclear stock, is eligible for certification at the Pre-Elite class. Subsequent field production must move downward through the classification system. This “limited generation system” minimizes the risk of disease build-up. (In Manitoba most of the seed potatoes produced for commercial planting is Elite 4 or fifth generation seed, - limited amounts of six or seven-generation seed is produced.)

The seed classes from the youngest to the oldest are listed below:

FIELD GENERATION	SEED CLASS PRODUCED	SEED CLASS PLANTED
1	PRE-ELITE	Nuclear (produced in a greenhouse)
2	ELITE 1	Pre-Elite - or any of the previous seed potato classes
3	ELITE 2	Elite 1 - or any of the previous seed potato classes
4	ELITE 3	Elite 2 - or any of the previous seed potato classes
5	ELITE 4	Elite 3 - or any of the previous seed potato classes
6	FOUNDATION	Elite 4 - or any of the previous seed potato classes
7	CERTIFIED	Foundation – or any of the previous seed potato classes

THE POST HARVEST TEST

At least 400 randomly selected tubers from each qualifying seed potato lot are collected and sent to Hawaii to be grown out and examined by Canadian Food Inspection Agency Seed Potato Inspectors.

Alternatively, tubers would be sent to a lab for grow out and virus testing.

The main emphasis of the Post-Harvest test is the detection of viral infections that may have occurred during the production season through their transmission by insects or farm machinery. Infections of this type infect the new tubers but rarely express visual symptoms until the following growing season. The Post-Harvest test attempts to identify where and to what extent these infections have occurred.

The main diseases for which readings are taken include: Potato Leaf Roll virus and Mosaic Virus

The Post-Harvest test also reports on the presence of foreign varieties in seed lots. Results of the Post-Harvest test are published in February and can be obtained from the grower.

DISEASE AND VARIETAL PURITY STANDARDS:

Disease freedom and varietal purity is maintained through a program consisting of multiple growing crop inspections, laboratory testing, post-harvest testing and sound cultural practices.

The Pre-Elite, Elite I, II, III, IV, Foundation and Certified classes of seed must undergo and pass two growing crop inspections. All field inspections are made during a time most opportune for the visual detection of disease symptoms and foreign varieties in the growing crop.

The standards for certification of all classes of seed are set out in Sections 47.11 – 47.8 of the seed regulations. The maximum levels of detectable disease on the final inspection of the growing crop for the main commercial classes are summarized below:

Disease	Elite 3	Elite 4	Foundation	Certified
Bacterial Ring Rot	0.00%	0.00%	0.00%	0.00%
Potato Spindle Tuber Viroid	0.00%	0.00%	0.00%	0.00%
Total All Viruses	0.20%	0.30%	0.50%	2.00%
Total of Blackleg, Wilts and Viruses	0.30%	0.50%	1.00%	2.00%
Varietal Mixtures	0.05%	0.10%	0.20%	0.50%

Note: Inspection for the purpose of certification is made either visually or through laboratory testing of samples or both. Certification does not constitute a warranty by either The Canadian Food Inspection Agency or the grower that the seed potatoes meet the applicable standard set out in Sections 47.2 to 47.11 of the Seed regulations.

BACTERIAL RING ROT PREVENTION

Every effort is made to prevent contamination of seed stocks by ring rot bacteria. The following mechanisms each contribute to reducing the risk of Bacterial Ring Rot contamination and keeping Manitoba grown seed potatoes healthy:

1. Maintenance of pedigree records on all seed lots certified. (Records are maintained from generation to generation on all seed stocks produced in Canada. This enables a complete trace back of all seed sources when BRR is reported.)
2. All seed potatoes produced originates from disease free Nuclear Stocks.
3. Strict adherence to a limited field generation production system. (Flush-through production)
4. Inspections of the growing crop for Bacterial Ring Rot disease symptoms.
5. Tuber inspections at harvest or in the bin shortly after harvest.

6. Frequent tuber inspections at shipping point.
7. Investigations of seed sources of Bacterial Ring Rot disease occurrences in commercial potato production.
8. Bacterial Ring Rot testing in the laboratory of all seed lots
9. **Total rejection of all seed produced on a farm where a seed lot is determined to be infected with Bacterial Ring Rot.**
10. Seed grower diligence in preventing ring rot bacteria introductions. This includes frequent cleaning and disinfection of all equipment and buildings used in the harvesting, handling and storage of seed potatoes.

TUBER QUALITY STANDARDS

All seed potato classes are subject to the same tuber standards (i.e. there is only one quality grade for Canada Seed Potatoes). The total allowable disease and defects permitted in a graded seed potato lot are set out in sections 48.1 (2) to (10) of the seed regulations. A summary of the shipping point tolerances are listed below:

Disease or Defect	Tolerance
Soft rot or wet breakdown	0.10%
Dry rot and late blight	1.00%
Scab or Rhizoctonia - light	5.00%
Scab or Rhizoctonia – moderate	10.00%
Stem-end discoloration due to: top killing, frost, heat, or drought with a penetration from 6 – 13 millimeters.	4.00%
Tubers malformed or externally damaged	2.00%
Total number of tubers affected by disease and defects, not including slight scab and rhizoctonia and stem-end discoloration.	5.00%

In addition, the tolerance for foreign varieties is as follows:

Elite 3 class of seed.....	0.05%
Elite 4 class of seed.....	0.10%
Foundation class of seed.....	0.20%
Certified class of seed	0.50%

In any lot of graded seed potatoes at least 98% of the tubers shall be firm and well-shaped.

SEED CLASS, VARIETY AND PRODUCER IDENTIFICATION

Bagged seed is identified by official tags issued by the Canadian Food Inspection Agency. The following tag colours identify the respective seed classes.

- ORANGE** tags identify the ELITE classes of seed
- WHITE** tags identify the FOUNDATION class of seed
- BLUE** tags identify the CERTIFIED class of seed

Bulk seed sales are identified by Bulk-movement Certificates, which are also issued by the Canadian Food Inspection Agency.

To be valid the tags and bulk movement certificates must identify the seed by:

Variety, Class, and an official eleven-digit Certification number.

COMPARISON OF MANITOBA'S SEED CLASS DESIGNATION WITH THOSE OF THE UNITED STATES

LIMITED GENERATION CERTIFIED SEED POTATOES

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.

- The first field planting utilizes laboratory-tested stocks, which may be tissue-cultured plantlets, greenhouse-produced mini-tubers, stem cuttings, or line selections. Contact agencies for detail as to types of stocks planted in their programs.

Field Planting Equivalency Table¹

YEAR IN THE FIELD								
Agency	1 ²	2	3	4	5	6	7	8
Manitoba	PE	E1	E2	E3	E4	F	C	
Alaska	G1 ³	G2	G3	G4	G5	G6	G7	G8
California	N	G1	G2	G3	F	C	--	--
Colorado	G1	G2	G3	G4	G5	G6	--	--
Idaho	N	G1	G2	G3	G4	G5	G6	--
Maine	N1	N2	N3	N4	G1	G2	G3	G4
Michigan	N	G1	G2	G3	G4	G5	--	--
Minnesota	N	G1	G2	G3	G4	G5	C	--
Montana	N	G1	G2	G3	G4	--	--	--
Nebraska	N	G1	G2	G3	G4	G5	--	--
New York ⁴	(Uihlein Farm)		G1	G2	G3	G4	G5	G6
North Dakota	N	G1	G2	G3	G4	G5	C	--
Oregon	N	G1	G2	G3	G4	G5	--	--
Utah	N(G)	G2	G3	G4	G5	G6	--	--
Washington	N	G1	G2	G3	G4	--	--	--
Wisconsin	E1	E2	G1	G2	G3	G4	C	--

- Terms 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.
- If lots originate at Cornell-Uihlein Farm, the first three generations (G1 – G3) are also designated by a “U” to denote source

FOOD SAFETY ASSURANCE POINTS

PRODUCTION SITE:

- Production site(s) are chosen carefully to ensure that no past land use or adjacent land use can be a source of contamination to seed potatoes.
- All agricultural chemicals used are appropriate for the intended crop and manufacturer's label instructions are followed when applying chemicals.
- Agricultural chemicals, cleaning agents, etc. are stored in a designated area separate and away from where seed potatoes are stored or are graded.
- Records are kept for the application of all agricultural chemicals.
- Employees operating equipment for chemical/pesticide application are properly qualified to do so.

EQUIPMENT:

- All equipment used for planting and harvesting is washed and sanitized before use in the seed potato field.
- All transportation equipment/shipping trucks are cleaned and sanitized regularly and are only used for hauling potatoes.
- All food contact surfaces (harvester, grading line, etc.) are non-abrasive, non-toxic, and can withstand repeated cleaning.
- Records are kept for all equipment cleaning and maintenance.

STORAGE AND GRADING:

- All storages have pest control systems in place that are regularly monitored.
- All storages are monitored for temperature and humidity control.
- Sanitary foot dips are used before employees enter storage and grading areas.
- All storages are disinfected before seed potato storage occurs.
- Records are kept for all cleaning and maintenance of the storage and processing area.

NOTICE TO BUYER:

LIMITED WARRANTY AND LIMITATION OF DAMAGES AND REMEDY

The seller warrants that any seed potatoes sold or agreed to be sold to the buyer by the seller are of the grade specified upon the tag attached to each container thereof as required by Statute, within recognized tolerances. The inspection certificate(s) of the Canadian Food Inspection Agency (unless superseded) shall be conclusive evidence of the purity, quality, grade or any other matter respecting such seed potatoes, and such certificate(s) shall be binding upon the buyer and the seller. IT IS EXPRESSLY AGREED THAT NO OTHER WARRANTIES, CONDITIONS OR REPRESENTATIONS, EXPRESSED OR IMPLIED, STATUTORY OR OTHERWISE, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, PRODUCTIVENESS, ABSENCE OF DISEASE, OR OTHERWISE, ARE MADE BY THE SELLER.

LIABILITY OF THE SELLER for damages arising from any cause, including breach of contract, breach of warranty and negligence, with respect to any sale of seed potatoes is LIMITED TO A REFUND OF THE PURCHASE PRICE OF THE SEED POTATOES, WITHOUT INTEREST. THIS REMEDY IS EXCLUSIVE AND IS ONLY AVAILABLE IF A CLAIM IS MADE WHILE THE SUBJECT CROP CAN STILL BE EXAMINED IN THE FIELD BY THE SELLER.

NO AGREEMENT COLLATERAL HERETO SHALL BE BINDING UPON THE SELLER UNLESS ENDORSED HEREIN IN WRITING.

IN NO EVENT SHALL THE SELLER BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING LOSS OF PROFITS.

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Red Seed Potato Varieties

CLASS	GROWER	ACRES CERTI- FIED	CERTIFICATION NUMBER
AAC RED VIOLA			
E2	Kroeker Farms	72	2023-6200291-003
AC PEREGRINE RED			
E3	Haskett Growers	29	2023-6200282-016
CIKLAMEN			
E3	Kroeker Farms	6	2023-6200291-014
E4	Kroeker Farms	114	2023-6200291-016
CRISTINA			
E3	Southern Potato Co	17	2023-6204318-008
DARK RED NORLAND			
E3	Haskett Growers	57	2023-6200282-011
FENWAY RED			
E3	Southern Potato Co.	54	2023-6204318-009
FLAMENCO			
E2	Kroeker Farms	4	2023-6200291-019

NOTE:

**All varieties may not be listed.
Please call for any other enquiries.
Royalties may apply to some varieties.**

Red Seed Potato Varieties

CLASS	GROWER	ACRES CERTI- FIED	CERTIFICATION NUMBER
NORLAND			
Pre Elite	Northern Seed Potatoes	.05	2023-6408502-006
E1	Northern Seed Potatoes	.12	2023-6408502-004
E2	Kroeker Farms	48	2023-6200291-018
E2	Kroeker Farms	6	2023-6200291-020
E3	Spruce Drive Farms	17	2023-6106068-001
E3	Haskett Growers	38	2023-6200282-001
E3	Southern Potato Co.	10	2023-6204318-018
RED PONTIAC			
E3	Haskett Growers	28	2023-6200282-025
SANGRE			
E3	Haskett Growers	98	2023-6200282-017
E4	Kroeker Farms Ltd.	32	2023-6200291-024
E4	Southern Potato Co.	49	2023-6204318-005
PURPLE VIKING			
E3	Haskett Growers	3	2023-6200282-032
VIKING			
E3	Haskett Growers	3	2023-6200282-036
E3	Southern Potato Co.	16	2023-6204318-019
WATERLOO			
E2	Kroeker Farms	10	2023-6200291-026
E4	Kroeker Farms	20	2023-6200291-027

Russet Seed Potato Varieties

CLASS	GROWER	ACRES CERTI- FIED	CERTIFICATION NUMBER
DAKOTA RUSSET			
Pre Elite	Northern Seed Potatoes	.37	2023-6408502-005
E2	Spruce Drive Farms	17	2023-6106068-002
E2	Haskett Growers	3	2023-6200282-028
E2	Spud Plains Farms	6	2023-6405666-001
E3	Spruce Drive Farms	151	2023-6106068-004
E3	Spud Plains Farms	51	2023-6405666-018
E4	Spud Plains Farms	32	2023-6405666-019
Fdn	Spud Plains Farms	53	2023-6405666-020
Fdn	Haskett Growers	28	2023-6200282-029
GOLD RUSH			
E3	Haskett Growers	4	2023-6200282-034
HIGHLAND RUSSET			
E2	Northern Seed Potatoes	23	2023-6408502-002
IVORY RUSSET			
E1	Northern Seed Potatoes	.17	2023-6408502-008
<p>NOTE: All varieties may not be listed. Please call for any other enquiries. Royalties may apply to some varieties.</p>			

Russet Seed Potato Varieties

CLASS	GROWER	ACRES CERTI- FIED	CERTIFICATION NUMBER
RANGER RUSSET			
Pre Elite	Northern Seed Potatoes	.07	2023-6408502-009
E2	Spud Plains Farms	18	2023-6405666-003
E3	A & M Potato Growers	79	2023-6404978-001
E3	Haskett Growers	61	2023-6200282-009
E3	Spud Plains Farms	152	2023-6405666-009
E3	Swansfleet Alliance	86	2023-6300524-041
E4	Swansfleet Alliance	31	2023-6300524-045
E4	Spud Plains Farms L	118	2023-6405666-011



CLASS	GROWER	ACRES CERTI- FIED	CERTIFICATION NUMBER
RUSSET BURBANK			
Pre-Elite	Northern Seed Potatoes	.12	2023-6408502-007
E2	Northern Seed Potatoes	8	2023-6408502-003
E2	Adriaansen Farms Venture	47	2023-6402760-002
E3	A & M Potato Growers	71	2023-6404978-005
E3	Adriaansen Farms Venture	379	2023-6402760-001
E3	Spud Plains Farms Ltd.	979	2023-6405666-008
E3	Swansfleet Alliance	1180	2023-6300524-015
E4	A & M Potato Growers	65	2023-6404978-004
E4	Spud Plains Farms	93	2023-6405666-012
SHEPODY			
Fdn	Haskett Growers	11	2023-6200282-030
UMATILLA RUSSET			
E4	Swansfleet Alliance	123	2023-6300524-053
E3	Haskett Growers	80	2023-6200282-005
E3	Southern Potato Co.	52	2023-6204318-031

NOTE:
All varieties may not be listed.
Please call for any other enquiries.
Royalties may apply to some varieties.

White Seed Potato Varieties

CLASS	GROWER	ACRES CERTI- FIED	CERTIFICATION NUMBER
AAC ARCTIC			
E2	Kroeker Farms	11	2023-6200291-001
KENNEBEC			
E3	Haskett Growers	6	2023-6200282-033
VOLARE			
E4	Southern Potato Co.	21	2023-6204318-012
WARBA			
E3	Haskett Growers	4	2023-6200282-035
WHITNEY			
E3	Kroeker Farms	79	2023-6200291-029
E4	Kroeker Farms	85	2023-6200291-032

Yellow Seed Potato Varieties

CLASS	GROWER	ACRE S CERTI- FIED	CERTIFICATION NUMBER
ADORA			
E3	Kroeker Farms	13	2023-6200291-004
E4	Kroeker Farms	16	2023-6200291-005
AGATA			
E2	Kroeker Farms	88	2023-6200291-006
ANOUK			
E3	Kroeker Farms	133	2023-6200291-009

BONUS			
E3	Haskett Growers	23	2023-6200282-021
BABYLOU			
E3	Kroeker Farms	18	2023-6200291-011
CAMELIA			
E3	Kroeker Farms	2	2023-6200291-012
COLOMBA			
Fdn	Haskett Growers	30	2023-6200282-038
E3	Southern Potato Co.	69	2023-6204318-027
E3	Southern Potato Co.	50	2023-6204318-028
E4	Southern Potato Co. I	23	2023-6204318-029
CONSTANCE			
E3	Kroeker Farms Ltd.	22	2023-6200291-017
HZD 08-1059			
E3	Southern Potato Co.	5	2023-6204318-025
MAGGIE			
E4	Southern Potato Co.	17	2023-6204318-024
MUSICA			
E4	Southern Potato Co.	3	2023-6204318-011
E3	Southern Potato Co.	100	2023-6204318-021
E4	Southern Potato Co.	12	2023-6204318-022
E3	Southern Potato Co.	44	2023-6204318-026
ORCHESTRA			
E3	Kroeker Farms	72	2023-6200291-021
SOUND			
E2	Kroeker Farms	7	2023-6200291-025
YUKON GOLD			
E3	Haskett Growers	46	2023-6200282-013
Fdn	Haskett Growers	8	2023-6200282-014

Red Skin/Yellow Flesh Seed Potato Varieties

RED SONIA			
E3	Kroeker Farms Ltd.	6	2023-6200291-022
SALLY			
E3	Kroeker Farms Ltd.	57	2023-6200291-023

Chipping Seed Potato Varieties

CLASS	GROWER	ACRES CERTI- FIED	CERTIFICATION NUMBER
DAKOTA PEARL			
E3	Haskett Growers	15	2023-6200282-002
E3	Southern Potato Co.	48	2023-6204318-013
Fdn	Haskett Growers	13	2023-6200282-003
LADY CLAIRE			
E3	Southern Potato Co.	7	2023-6204318-007
MANISTEE			
E3	Southern Potato Co.	1	2023-6204318-003
SP327			
E3	Haskett Growers	21	2023-6200282-023
VIGOR			
E3	Haskett Growers	30	2023-6200282-022
E3	Southern Potato Co	21	2023-6204318-004

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Contact: Kevin Nickel

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