



2019-20

**BRITISH COLUMBIA
SEED POTATO
DIRECTORY**

www.bcseedpotatoes.com

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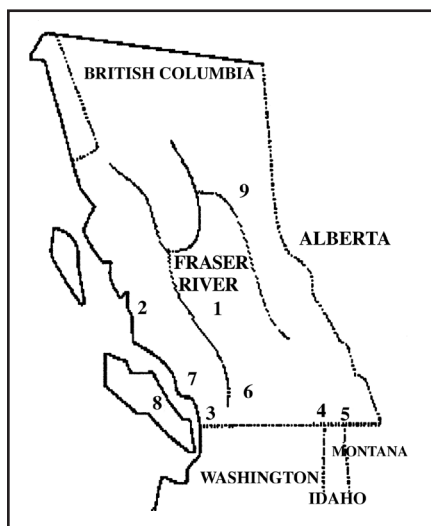
Summary of Seed Potato Fields Passed in British Columbia 2019

Alphabetical Listings by Variety, District and Grower, for classes:
Pre-Elite, Elite 1, Elite 2, Elite 3, Elite 4, Foundation, Certified

Variety Index

105/2/W/06-LIBERTE.....	9
AC PEREGRINE RED.....	9
AR2010-08.....	9
ARIZONA.....	9
ATLANTIC.....	9
CAL WHITE.....	9
CASCADE.....	10
CHIEFTAIN.....	10
CONSTANCE.....	11
EXCELLENCY.....	11
GEM RUSSET.....	11
GEMSTAR RUSSET.....	11
KENNEBEC.....	11-12
MERIDA.....	12
NORLAND.....	12
ORIANA.....	13
RANGER RUSSET.....	13
RED LA SODA.....	13
RED PONTIAC.....	14
RUSSET BURBANK.....	14
RUSSET NORKOTAH.....	14-15
RUSSIAN BLUE.....	15
SHEPODY.....	15
SIEGLINDE.....	15-16
SIFRA.....	16
WARBA.....	16
YUKON GOLD.....	17
ORGANIC VARIETIES.....	18
NUCLEAR STOCK MATERIAL.....	19
GROWER DIRECTORY.....	20-21

Seed Potato Production Locations



Key to Map

1. Cariboo
2. Central B.C.
3. Fraser Valley
4. Grand Forks
5. Creston
6. Okanagan
7. Pemberton*
8. Vancouver Island
9. Peace River

* Seed Control Area

In this area all potatoes grown must enter in the form of disease free nuclear stock tissue culture plants and cannot stay in the Pemberton Valley past Class E3 planted.

KEY TO ABBREVIATIONS

N	Nuclear Class
PE	Pre-Elite Class
E1	Elite 1 Class
E2	Elite 2 Class
E3	Elite 3 Class
E4	Elite 4 Class
F	Foundation Class
C	Certified Class

All Nuclear seed potatoes are grown from tissue culture, tested and found free of all known viruses, bacterial ring rot and spindle tuber viroid.

All seed potato lots sold except “certified” are tested and found free of bacterial ring rot.

Approximate Number of Acres Passed by Variety for 2019

	Acres
105/2/W/06-Liberte.....	0.101
AC Peregrine Red	13.097
Arizona.....	3.954
Atlantic.....	8.797
Cal White	5.809
Cascade	0.324
Chieftain.....	120.115
Constance.....	0.571
Excellency.....	0.324
Gem Russet	4.497
Gemstar Russet	5.258
Kennebec.....	80.757
Merida	19.104
Norland	29.406
Oriana.....	17.053
Ranger Russet	8.797
Red La Soda.....	18.810
Red Pontiac	8.179
Russet Burbank	19.398
Russet Norkotah.....	36.500
Russian Blue	1.809
Shepody.....	17.421
Sieglinde	4.473
Sifra.....	12.269
Warba	32.396
Yukon Gold	89.531
Organic.....	18.817
Nuclear.....	0.054
Total.....	577.619

Seed Potato Certification in Canada

Certification of seed potatoes in Canada is the responsibility of the Canadian Food Inspection Agency. The seed program is based on a limited generation system. The number of field generations is limited to seven. The seed automatically moves down one generation (class) each year. Initially the first generation (Pre-Elite) originates from tested nuclear stock to ensure pathogen freedom. This pathogen freedom is maintained as the seed sequentially moves downward annually and the fields must pass rigorous field inspection. A sample of the plants or tubers in each field are subject to a laboratory test for Bacterial Ring Rot (except Certified class) every year. Seed potato growers participate in a voluntary post harvest test in Hawaii for additional virus readings as established by market demand.

CLASSIFICATION SYSTEM

YEAR IN FIELD	SEED CLASS	GENERATION	REQUIREMENTS
-	Nuclear Seed (N)	-	Produced in an enclosed environment from pathogen free stock
1	Pre-Elite (PE)	1	Grown from N seed
2	Elite 1 (E1)	2	Grown from N or PE seed
3	Elite 2 (E2)	3	Grown from N, PE or E1 seed
4	Elite 3 (E3)	4	Grown from N, PE, E1 or E2 seed
5	Elite 4 (E4)	5	Grown from N, PE, E1, E2, or E3 seed
6	Foundation (F)	6	Grown from N, PE, E1, E2, E3 or E4 seed
7	Certified (C)	7	Grown from N, PE, E1, E2, E3, E4 or F seed

LIMITED GENERATION CERTIFIED SEED POTATOES
Field Planting Equivalency Table¹

Prepared by the

Certification Section of the Potato Association of America

YEAR IN THE FIELD

Agency	1 ²	2	3	4	5	6	7	8
Alaska	G1 ³	G2	G3	G4	G5	G6	G7	G8
California	N	G1	G2	G3	G4	G5	...	...
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	N1	N2	G1	G2	G3	G4	G5	G6
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	E1	E2	G1	G2	G3	G4	C	...
Canada	PE	E1	E2	E3	E4	F	C	...
	(G1)	(G2)	(G3)	(G4)	(G5)	(G5)	(G6)	

Revision Date: January 2002

- 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.
- ² 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 details as to types of stocks planted in their programs.
- ³ Term 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.
- ⁴ If lots originate at Cornell-Uihlein Farm, the first three generations (G1-G3) are also designated by a AU @ to denote source.
- ⁵ Lots NOT originating at the UW Leelah Starks Elite Foundation Seed Potato Farm are designated Gn where n=years in the field.

Tolerance Tables

The maximum percentage of plants in a growing crop planted to produce the various classes of seed at the time of field inspection.

INSPECTIONS

DISEASES	First	Final
Elite 1 Class		
1. Potato spindle tuber	0.0	0.0
2. Bacterial ring rot	0.0	0.0
3. Total of all viruses	0.1	0.0
4. Total of blackleg and wilts	0.1	0.1
5. Varietal mixtures	0.1	0.0
Elite 2 Class		
1. Potato spindle tuber	0.0	0.0
2. Bacterial ring rot	0.0	0.0
3. Total of all viruses	0.2	0.1
4. Total of blackleg and wilts	0.2	0.2
5. Varietal mixtures	0.1	0.0
Elite 3 Class		
1. Potato spindle tuber	0.0	0.0
2. Bacterial ring rot	0.0	0.0
3. Total of all viruses	0.3	0.2
4. Total of blackleg and wilts	0.3	0.3
5. Varietal mixtures	0.2	0.05
Elite 4 Class		
1. Potato spindle tuber	0.0	0.0
2. Bacterial ring rot	0.0	0.0
3. Total of all viruses	0.6	0.3
4. Total of blackleg and wilts	0.5	0.5
5. Varietal mixtures	0.2	0.1
Foundation Class		
1. Potato spindle tuber	0.0	0.0
2. Bacterial ring rot	0.0	0.0
3. Total of all viruses	1.0	0.5
4. Total of blackleg and wilts	1.0	1.0
5. Varietal mixtures	0.4	0.2
Certified Class		
1. Potato spindle tuber	0.0	0.0
2. Bacterial ring rot	0.0	0.0
3. Total of all viruses	3.0	2.0
4. Total of blackleg and wilts	3.0	2.0
5. Varietal mixtures	1.0	0.5

GROWER	Class	Total Acres
105/2/W/06 - LIBERTE		
<u>Pemberton</u>		
Ryan Creek Farm	PE	0.002
	E1	0.099
		0.101
AC PEREGRINE RED		
<u>Fraser Valley</u>		
McKinney Enterprises Ltd.	E4	13.097
		13.097
ARIZONA		
<u>Fraser Valley</u>		
Pacific Potato Corp.	E3	3.954
		3.954
ATLANTIC		
<u>Pemberton</u>		
Ronayne Farms	PE	0.148
	E1	1.236
	E2	7.413
		8.797
CAL WHITE		
<u>Pemberton</u>		
Kuurne, Mark & Roxanna	PE	0.002
	E1	0.593
	E2	5.214
		5.809

GROWER	Class	Total Acres
CASCADE		
<u>Pemberton</u>		
Ryan Creek Farms	PE	0.002
	E1	0.321
		0.324
CHIEFTAIN		
<u>Fraser Valley</u>		
Pacific Potato Corp.	E3	73.390
W & A Farms (2006) Ltd.	E3	9.711
Zellweger Farms	E3	8.402
<u>Pemberton</u>		
Gilmore Brothers Farm	PE	0.025
	E1	1.236
	E2	9.266
Kuurne, Mark & Roxanna	PE	0.002
	E1	0.173
	E2	4.127
Ryan Creek Farm	E1	0.445
	E2	2.323
Shaw Creek Farm	PE	0.074
	E1	1.186
	E2	8.154
	E2	1.601
		120.115

GROWER	Class	Total Acres
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CONSTANCE

Pemberton

Ryan Creek Farm	PE	0.002
	E1	0.568

0.571

EXCELLENCY

Pemberton

Ryan Creek Farm	PE	0.002
	E1	0.321

0.324

GEM RUSSET

Pemberton

Shaw Creek Farm	PE	0.049
	E1	0.494
	E2	3.954

4.497

GEMSTAR RUSSET

Pemberton

Shaw Creek Farm	PE	0.044
	E1	0.395
	E2	4.819

5.258

KENNEBEC

Fraser Valley

Derek Mitchell	E3	11.120
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McKinney Enterprises Ltd.	E3	12.108
---------------------------	----	--------

GROWER	Class	Total Acres
W & A Farms (2006) Ltd.	E3	3.978
Wrightholm Farms Ltd.	E3	4.942
Zellweger Farms	E3	14.826
<u>Pemberton</u>		
Gilmore Brothers Farm	PE	0.025
	E1	1.977
	E2	21.745
	E2	1.680
Kuurne, Mark & Roxanna	PE	0.002
	E1	0.247
	E2	3.163
Ronayne Farms	E3	4.942
		80.757

MERIDA

Fraser Valley

Pacific Potato Corp.	E4	18.533
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Pemberton

Ryan Creek Farm	PE	0.002
	E1	0.568

19.104

NORLAND

Fraser Valley

McKinney Enterprises Ltd.	CERT	0.988
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W & A Farms (2006) Ltd.	E3	28.417
-------------------------	----	--------

29.406

GROWER	Class	Total Acres
ORIANA		
<u>Fraser Valley</u>		
Pacific Potato Corp.	E3	17.050
<u>Pemberton</u>		
Ryan Creek Farm	PE	0.002
		17.053
RANGER RUSSET		
<u>Pemberton</u>		
Ronayne Farms	PE	0.148
	E1	1.236
	E2	7.413
		8.797
RED LA SODA		
<u>Fraser Valley</u>		
Pacific Potato Corp.	E3	9.143
<u>Pemberton</u>		
Kuurne, Mark & Roxanna	PE	0.002
	E1	0.371
	E2	5.733
Ryan Creek Farms	PE	0.002
	E1	0.321
	E2	3.237
		18.810

GROWER	Class	Total Acres
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RED PONTIAC

Fraser Valley

W & A Farms (2006) Inc.	E4	0.247
-------------------------	----	-------

Pemberton

Gilmore Brothers Farm	PE	0.025
	E1	0.988
	E2	6.919

8.179

RUSSET BURBANK

Fraser Valley

W & A Farms (2006) Inc.	FDN	3.089
-------------------------	-----	-------

Pemberton

Ronayne Farms	PE	0.247
	E1	7.413
	E2	8.649

19.398

RUSSET NORKOTAH

Fraser Valley

McKinney Enterprises Ltd.	E3	1.977
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W & A Farms (2006) Inc.	E3	8.995
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Wrightholm Farms Ltd.	E3	4.942
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Zellweger Farms	E3	6.425
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GROWER	Class	Total Acres
<u>Pemberton</u>		
Kuurne, Mark & Roxanna	PE	0.002
	E1	0.914
	E2	9.390
Ronayne Farms	PE	0.148
	E1	1.236
	E2	2.471
		36.500

RUSSIAN BLUE

Fraser Valley

McKinney Enterprises Ltd.	E3	0.494
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Pemberton

Kuurne, Mark & Roxanna	PE	0.002
	E1	0.002
	E2	1.310
		1.809

SHEPODY

Pemberton

Ronayne Farms	PE	0.124
	E1	2.471
	E2	14.826
		17.421

SIEGLINDE

Fraser Valley

McKinney Enterprises Ltd.	E3	0.988
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GROWER	Class	Total Acres
<hr/> <hr/>		
<u>Pemberton</u>		
Shaw Creek Farm	PE	0.025
	E1	0.494
	E2	2.965
		<hr/>
		4.473
<hr/>		

SIFRA

<u>Pemberton</u>		
Shaw Creek Farm	PE	0.062
	E1	1.137
	E2	9.069
	E3	2.002
		<hr/>
		12.269
<hr/>		

WARBA

<u>Fraser Valley</u>		
McKinney Enterprises Ltd.	E3	2.965
W & A Farms (2006) Inc.	E3	1.977
	E4	4.942
Zellweger Farms	E3	9.390
<u>Pemberton</u>		
Gilmore Brothers Farm	PE	0.025
	E1	1.236
	E2	11.861
		<hr/>
		32.396
<hr/>		

GROWER	Class	Total Acres
YUKON GOLD		
<u>Fraser Valley</u>		
McKinney Enterprises Ltd.	E3	2.965
Pacific Potato Corp.	E3	38.548
W & A Farms (2006) Inc.	E3	10.453
	E4	6.795
Zellweger Farms	E3	6.919
<u>Pemberton</u>		
Kuurne, Mark & Roxanna	PE	0.002
	E1	0.099
	E2	8.377
	E3	4.127
Shaw Creek Farm	PE	0.002
	E1	1.236
	E2	10.008
		89.531

GROWER	Class	Total Acres
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ORGANIC VARIETIES

Pemberton

ACROSS THE CREEK ORGANICS

Banana	E4	0.494
Chieftain	E3	2.471
Russet Norkotah	E3	2.965
Russian Blue	FDN	1.236
Sieglinde	E3	0.988
Warba	E3	1.730
Yukon Gold	E4	2.965

HELMER'S ORGANIC FARM

Bintje	PE	0.002
Chieftain	E3	0.494
Chieftain	E4	0.002
Desiree	PE	0.002
Desiree	E1	0.002
Desiree	E2	0.002
Desiree	E4	0.002
French Fingerling	PE	0.002
French Fingerling	E1	0.002
French Fingerling	E2	0.002
French Fingerling	E4	0.002
Gemstar Russet	E3	0.544
Huckleberry Gold	PE	0.005
Kennebec	E4	0.002
La Ratte	PE	0.002
La Ratte	E1	0.002
La Ratte	E2	0.002
La Ratte	E4	0.005
Russian Blue	E3	0.074
Sieglinde	E3	3.311
Sieglinde	E4	1.236
Ulla	E1	0.002
Ulla	E3	0.002
White Rose	PE	0.002
White Rose	E1	0.002
White Rose	E2	0.002
White Rose	E3	0.002
White Rose	E4	0.247
Yukon Gold	E4	0.002

TOTAL ORGANIC	18.817
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GROWER	Class	Total Acres
<u>NUCLEAR STOCK MATERIAL</u>		
<u>Pemberton</u>		
Gilmore Brothers Farm:		
Cheiftain	N	0.002
Kennebec	N	0.002
Red Pontiac	N	0.002
Warba	N	0.002
Kuurne, Mark & Roxanna:		
Cal White	N	0.002
Chieftain	N	0.002
Kennebec	N	0.002
Red La Soda	N	0.002
Russet Norkotah	N	0.002
Russian Blue	N	0.002
Yukon Gold	N	0.002
Shaw Creek Farm:		
Chieftain	N	0.025
Gem Russet	N	0.002
Gemstar Russet	N	0.002
Sieglinde	N	0.002
Sifra	N	0.002
Yukon Gold	N	0.002
Ronayne Farms:		
Atlantic	N	0.002
Ranger Russet	N	0.002
Russet Burbank	N	0.002
Russet Norkotah	N	0.002
Shepody	N	0.002
TOTAL NUCLEAR		0.054

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North Saanich, B.C.
V8L 5G4

Phyto Diagnostics was established in 1996 to provide diagnostic testing services for seed potato growers in Western Canada. Our staff members, former employees of Agriculture and Agri-Food Canada, have research experience in virology, immunology, plant pathology and practical diagnostics.

We are approved by the Canadian Food Inspection Agency (CFIA) to test for bacterial ring rot (BRR), potato viruses including potato mop top virus (PMTV), and potato spindle tuber viroid (PSTVd).

SERVICES OFFERED:

Bacterial Ring Rot (BRR) testing of seed potatoes.

Post-harvest virus testing - greenhouse testing and Hawaii winter tests.

Nuclear stock audits of seed potatoes: BRR, PSTVd, PVX, PVY, PVS, PVM, PVA, PLRV, PotLV & PMTV.

Development and production of monoclonal antibodies, and PCR procedures for plant virus detection.

GMO testing of seed potatoes.

Maintenance of the Western Potato Consortium tissue culture collection, including protected accessions (under Breeders Rights or U.S. Patent Legislation).

Virus eradication for newly submitted accessions.

www.phytdiagnostics.com

Lab Director :
Dr. Peter Ellis

Lab Manager :
Gerda de Villiers

Lab Technician :
Meghan Ellis

For information on services and pricing please contact our main office
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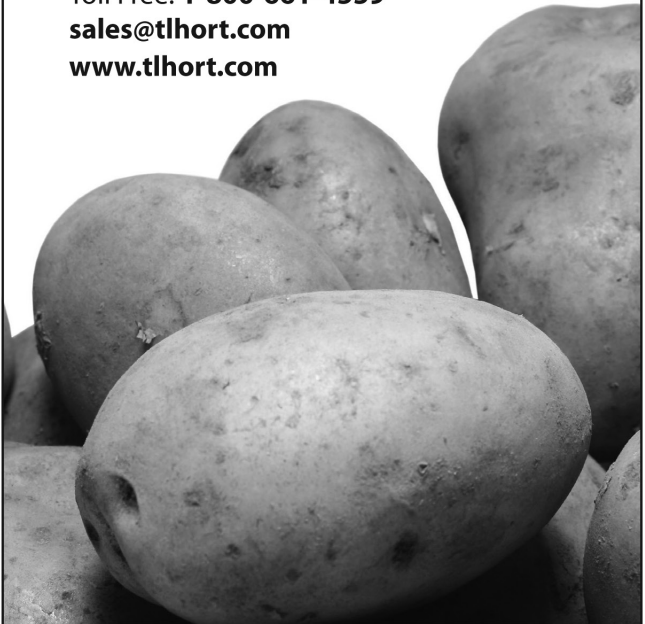
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Gilmore Brothers Farm

Pacific Potato Corp.

Zellweger Farms

Helmer's Organic Farm

Ronayne Farms

Kuurne, Mark & Roxanna

Ryan Creek Farm

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