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SURVEY OF THE  
PREVALENCE OF PLANT DISEASES  
IN THE  
DOMINION OF CANADA.

1922

THIRD ANNUAL REPORT

*Vol. II*

POTATO DISEASE SECTION.

DIVISION OF BOTANY  
EXPERIMENTAL FARMS BRANCH  
DEPARTMENT OF AGRICULTURE

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POTATO

In the arrangement of data collected on the prevalence of potato diseases each province is dealt with separately, giving for each one notes of a general nature supplied by our collaborators and a report from the Potato Certification Service of the Division of Botany, covering all the provinces except British Columbia, in which the tabulated results are furnished by the Provincial Department of Agriculture, which conducts its own seed certification work.

As was the case in last year's data, in the fields inspected the growers had requested the service, anticipating that they would pass for certification. In Ontario a large number of fields entered in the provincial field crop competition were also inspected and the figures included in the following tables. The results given there would more nearly approximate the general prevalence of the diseases.

BRITISH COLUMBIA-  
Coast and Kootenay-

LATE BLIGHT, caused by  
Phytophthora infestans (Mont.) deBary

Late Blight appeared in the Chilliwack Valley somewhat late in the season, but has resulted in considerable tuber infection, in several cases the percentage being 50. Field inspection of growing crops showed the following average percentages of diseases:

Non-certified seed

No. of fields	Total acreage	Leaf roll	Mosaic	Blackleg	Rhizoc- tonia	Wilt
220	624.25	5.49	6.48	9.40	-	2.90

Certified seed

257	177.30	1.06	3.02	1.02	1.67	.74
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The tables from which these figures were obtained are appended, showing the disease distribution by districts.

BRITISH COLUMBIA

SYNOPSIS OF INSPECTION OF NON-CERTIFIED SEED FIELDS - 1922

<u>District</u>	<u>No. fields Inspected</u>	<u>Acreage Approximate</u>	<u>Average percentage of</u>				<u>Notes</u>
			<u>Leaf Roll</u>	<u>Mosaic</u>	<u>Wilt</u>	<u>Blackleg</u>	
1. Revelstoke	9	10.50	2.65	4.16	2.25	-	Vigor fair
2. Arrowhead	12	5.00	2.00	1.80	2.00	-	Poor
3. Rock Creek	11	8.25	12.70	7.00	-	-	Poor
4. Enderby	8	47.50	14.00	26.70	-	-	Fair to Poor
5. Essondale	6	22.00	6.2	1.00	-	1.1	
6. Armstrong	15	26.75	6.93	23.60	-	-	Poor
7. Thrums	7	42.50	7.00	-	-	-	
8. Lulu Island	10	15.5	3.70	4.45	1.19	.50	Fair
9. Ladner	10	25.0	2.90	5.00	1.40	.75	Fair
10. Cloverdale	18	76.0	3.40	3.09	2.60	1.37	Fair
11. Comox	6	8.5	6.75	5.10	2.30	1.25	
12. Coombs	6	.75	-	2.00	3.50	-	
13. Victoria	10	18.0	13.3	18.9	.75	-	
14. Matsqui	12	14.1	.46	2.0	1.22	.5	
15. Langley	6	11.	7.10	3.1	4.25	-	
16. Metchosin	16	21.	5.05	7.3	4.00	1.0	
17. Agassiz	14	17.75	.87	2.06	1.44	.87	
18. Mission	4	9.5	-	1.25	2.42	.25	
19. Denman Island	10	2.75	-	6.60	9.60	-	
20. Aldergrove	15	13.	2.58	1.38	.97	1.06	
21. Sardis	15	102.	1.30	3.20	6.63	.75	
220 fields 624.25			5.49	6.48	2.90	9.40	

BRITISH COLUMBIA

SYNOPSIS OF INSPECTION OF CERTIFIED SEED - 1922

<u>District</u>	<u>Fields</u>	<u>Acreage</u>	<u>Leaf Roll</u>	<u>Mosaic</u>	<u>Blackleg</u>	<u>Rhizoctonia</u>	<u>Wilt</u>	<u>Impurities</u>
Chilliwack	51	33	1.5	1.36	.75	1.8	1.8	.46
Comox	71	22.25	.45	3.8	.32	1.1	.56	.8
Errington	6	4.	.37	1.58		1.75	1.3	.25
Cowichan	20	20.	.6	1.58		2.86	.59	
Windermere	25	18.25	1.45	3.15	2.0	.8		.5
Keating	3	5.2	1.2	2.75				
Victoria	16	7.	1.26	1.4			.625	
Grand Forks	31	43.65	1.9	3.79		1.25	.875	
Kelowna	14	12.	1.42	2.8		1.17	.5	
Malakwa	13	5.95	.43			1.8	.5	.75
Vernon	6	5.		9.25		2.5		
Kamloops	1	1		1.75				
<hr/>								
Average for diseased fields	257	177.30	1.06	3.02	1.02	1.67	.74	.55

ALBERTA-

SCAB, caused by Actinomyces scabies (Thax.) Güssow

Amount varies from one to almost one hundred per cent.

Reports indicate fifty per cent above the average;  
attributed to dry season by farmers (DeLong).

Mosaic, leafroll and blackleg present at Lacombe,  
but slight amount (DeLong).

The following table shows not only the prevalence of  
the various diseases in the fields inspected, but also the var-  
ious reasons why certain fields failed to come up to certifica-  
tion standard. The outstanding causes would appear to be black-  
leg, presence of foreign varieties and wilt.

ALBERTA

FIELD INSPECTION OF POTATOES, 1922.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>		<u>No. acres passed</u>		<u>Per cent fields passed</u>	<u>Per cent acres passed</u>	
226	628 $\frac{1}{2}$	129		176 $\frac{3}{4}$		57.1	28.1	
Average per cent disease in total fields inspected	B.L. 2.0	L.R. .3	Mos. 1.9	Wilts 1.4	E.B. .07	L.B. .2	Rhiz. 6.3	T.B. .2
Average per cent disease in fields passed	.5	.2	.7	1.0	.1	.3	4.5	.3
Average per cent disease in fields rejected	4.1	.4	3.5	1.8	0.0	.05	7.6	.2

Of the 97 fields rejected, 27 containing 208 acres were rejected owing to

9	"	24 $\frac{1}{4}$	"	"	"	"	"	Blackleg
2	"	6	"	"	"	"	"	Mosaic
11	"	26 $\frac{3}{4}$	"	"	"	"	"	Leaf roll
37	"	134 $\frac{1}{2}$	"	"	"	"	"	Wilts
5	"	7	"	"	"	"	"	Foreign varieties
6	"	52 $\frac{1}{2}$	"	"	"	"	"	Lack of vigour
								Mosaic & Blackleg

SASKATCHEWAN-

EARLY BLIGHT, caused by  
Alternaria solani (E. & M.) J. & G.

Common and severe in some places.

RHIZOCTONIA, caused by  
Corticium vagumsolani B. & C.

Very common, and doing much damage as usual.

The following table indicates that the presence of foreign varieties, blackleg and mosaic, was largely responsible for fields not coming up to certification standard.

SASKATCHEWAN

FIELD INSPECTION OF POTATOES, 1922.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>Per cent fields passed</u>		<u>Per cent acres passed</u>	
282	844	207		385	73.4		45.6	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.
	1.4	.6	1.4	.05	.9	.002	6.4	.9
Average per cent disease in fields passed	.65	.37	.74	.04	.87	.003	5.4	.6
Average per cent disease in fields rejected	3.7	1.2	3.3	.06	.9	0.0	9.3	1.8

Of the 75 fields rejected, 4 containing 10 acres were rejected owing to Mosaic  
 25 " 175 " " " " " " Blackleg  
 41 " 266  $\frac{1}{2}$  " " " " " Foreign varieties  
 2 " 5  $\frac{1}{2}$  " " " " " Mosaic & Blackleg  
 2 " 1  $\frac{1}{2}$  " " " " " Mosaic & Leaf Roll  
 1 "  $\frac{1}{4}$  " " " " " Lack of vigour

MANITOBA-

EARLY BLIGHT, caused by  
Alternaria solani (E. & M.) J. & G.

This disease was more general and abundant than last year, and sometimes a factor in prematurely ripening the tops.

TIP BURN: cause unknown

Scarcely noticed. Leaf hoppers were found almost throughout the province.

LEAF ROLL: cause unknown

The manifestations of leaf roll were somewhat variable, in some cases the typical rolling and thickening of the leaves being confined strictly to the lower part of the plant, while the rest of the plant was as healthy looking as its neighbours. A marked increase over last year was apparent, although from both Ontario and Minnesota origin, crops found free or nearly free last year, have produced crops this year both free and diseased up to 10% or more. Efforts to discover an explanation were unsuccessful.

MOSAIC: cause unknown

Some crops showed a marked increase over last year, and a slight increase may have been general. One field with over 5% of what was believed to be Mosaic, when seen a month later had lost these symptoms, but had many plants, presumably the same ones, lodged or

the ground with all foliage gone except a tuft at the end of each branch. Something like the leaf drop of P. A. Murphy's bulletin seems indicated.

CURLY DWARF: cause unknown

Infrequently met.

SPINDLING SPROUT: cause unknown

Occasionally met with.

BLACK LEG, caused by  
Bacillus solanisaprus Har.

Responsible for many severe losses this year. In some fields too retentive of the heavy rains as much as a third of the plants were lodged and rotted at the surface of the ground, and this regardless of how free of black leg the source of the seed may have been last year. The infection would seem to have been almost invariably at the surface and not from the tuber, and in the case of the severest attack did its work quickly, like a sudden epidemic. In some cases rotting of the lower stem is believed to have been an advanced stage of severe *Rhizoctonia* stem-rot.

WILTS, caused by  
(Fusarium oxysporum Schl.  
(Verticillium albo-atrum MCA.

As distinguished by the wilting of the tops, this disease was seldom noticed, but in a few crops

browning of the vascular bundles may have been caused by *Fusarium*; *Rhizoctonia* complications were so generally present that determination of wilts was unsatisfactory.

RHIZOCTONIA, caused by  
*Corticium vagumsolani* B. & C.

As also last year, lesions on the stems were general; but unlike last year, when the effect on the growing crop was seldom severe, the crop this year very commonly showed injury, especially as the season advanced. In many cases the tubers were crowded together at the surface of the ground, and deformed or even cracked, and frequently the growth was forced into the tops. Practically all crops had more than 10% of the tubers quite noticeably covered with black scurf, and from that to over 75%. So severe was the infection from the soil, that plots treated with corrosive sublimate had no ultimate advantage over untreated plots. Some advantage in favour of immaturity at digging was again noticed.

COMMON SCAB, caused by  
*Actinomyces scabies* (Thax.) Güssow

Seldom present to any great extent, but a few crops with over 50% on sandy or freshly manured fields.

NET NECROSIS: cause unknown

Distinct netting or other flesh discolorations infrequent. One crop had a stem end browning in severe form.

DRY ROT, caused by  
Fusarium oxysporum Schl.

At the end of winter storage several crops of Early Ohios were considerably affected with dry rot which had penetrated deeply beneath the skin, commonly from a point of injury. Not found in any other variety.

BACTERIAL ROT, caused by various bacteria

Not found in storage, but occasionally in the growing season.

HOLLOW HEART: cause unknown

Not of much consequence this year.

Another probably distinct disease type occurred in many fields in small numbers, and was characterized by a compact, stiffly upright vine, with the underground part of the stem somewhat thickened and fleshy and almost translucent. These stems were apt to be free of Rhizoctonia lesions than others. The habit of the plant suggested leaf roll, but was due probably to shorter jointed growth not to the rolling and upright slant of leaf found in leaf roll.

The following table shows that leaf roll, blackleg and the presence of foreign varieties were the principal causes of certain fields not coming up to standard for certification:

MANITOBA

FIELD INSPECTION OF POTATOES, 1922.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>	<u>No. acres passed</u>	<u>Per cent fields passed</u>	<u>Per cent acres passed</u>				
191	976	113	533	59.2	54.6				
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	1.2	2.3	.6	.17	2.1	0.0	10.0	.2	
Average per cent disease in fields passed	.5	1.2	.4	.15	2.3	0.0	9.2	.3	
Average per cent disease in fields rejected	2.2	3.5	.9	.2	1.9	0.0	10.9	.06	

Of the 78 fields rejected, 27 containing 85 acres were rejected owing to

1	"	13	"	"	"	"	"	"	Leaf Roll
5	"	9	"	"	"	"	"	"	Blackleg & Wilt
3	"	7	"	"	"	"	"	"	Insect Injury
14	"	56	"	"	"	"	"	"	Mosaic & Leafroll
13	"	156	"	"	"	"	"	"	Blackleg
5	"	96	"	"	"	"	"	"	Foreign varieties
3	"	5	"	"	"	"	"	"	Lack of vigour
4	"	6	"	"	"	"	"	"	Mosaic
									Mosaic & Blackleg

ONTARIO-

The following tables cover the prevalence of plant diseases in the standing field crop competitions and the fields for which applications were made for inspection, the summaries for each being given separately. Tabulated results are given for each district, with reasons for certain fields failing to come up to certification standard:

NORTHERN ONTARIO, (S.F.C.C.)  
FIELD INSPECTION OF POTATOES, 1922.

Summary:

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>			<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
349	220½	119			74¼			34.1	33.7	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.		
	.9	1.9	3.8	.02	.7	.4	1.8	.6		
Average per cent disease in fields passed	.7	.8	2.1	.001	.9	.3	2.0	.5		
Average per cent disease in fields rejected	1.0	2.3	4.7	.03	.7	.4	1.7	.6		

NORTHERN ONTARIO, (S.F.C.C.)

FIELD INSPECTION OF POTATOES, 1922.

Algoma District:

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>			<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
55	46 $\frac{1}{2}$	25			20			45.5	43.0	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.		
	1.2	.5	3.3	0.0	0.0	0.0	2.8	0.0		
Average per cent disease in fields passed	1.3	.5	1.4	0.0	0.0	0.0	3.4	0.0		
Average per cent disease in fields rejected	1.2	.6	4.9	0.0	0.0	0.0	2.2	0.0		

Of the 30 fields rejected, 15 containing 12 $\frac{1}{2}$  acres were rejected owing to Foreign varieties

10	"	11	"	"	"	"	"	"	"	Mosaic
2	"	1 $\frac{1}{2}$	"	"	"	"	"	"	"	Blackleg
2	"	1	"	"	"	"	"	"	"	Mosaic & Leaf Roll
1	"	$\frac{1}{2}$	"	"	"	"	"	"	"	Lack of vigour

NORTHERN ONTARIO, (S.F.C.C.)

FIELD INSPECTION OF POTATOES, 1922.

Kenora District:

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>		<u>No. acres passed</u>	<u>Per cent fields passed</u>		<u>Per cent acres passed</u>	
9	5½	1		½	11.1		9	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.
	2.3	.7	2.7	.14	.5	.5	0.0	0.0
Average per cent disease in fields passed	2.6	0.0	2.3	0.0	2.5	0.0	0.0	0.0
Average per cent disease in fields rejected	2.0	.5	2.8	.2	.6	.6	0.0	0.0

Of the 8 fields rejected, 4 containing 2½ acres were rejected owing to Foreign varieties

1	"	½	"	"	"	"	"	"	Blackleg
2	"	1	"	"	"	"	"	"	Mosaic
1	"	1	"	"	"	"	"	"	Lack of vigour

NORTHERN ONTARIO, (S.F.C.C.)

FIELD INSPECTION OF POTATOES, 1922

Muskoka District:

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>			<u>Per cent fields passed</u>	<u>Per cent acres passed</u>
53	31	21			14½		39.6	46.8	
Average per cent disease in total fields inspected	B.L.	E.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	.06	1.0	4.2	0.0	0.0	0.0	.7	1.4	
Average per cent disease in fields passed	.01	1.0	1.5	0.0	0.0	0.0	.6	2.1	
Average per cent disease in fields rejected	.1	1.0	6.0	0.0	0.0	0.0	.8	.9	

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Of the 32 fields rejected, 7 containing 3½ acres were rejected owing to Foreign varieties

4	"	2	"	"	"	"	"	"	"	Leaf roll
1½	"	7½	"	"	"	"	"	"	"	Mosaic
6	"	3	"	"	"	"	"	"	"	Lack of vigour
1	"	1½	"	"	"	"	"	"	"	Insect injury

NORTHERN ONTARIO, (S.F.C.C.)

FIELD INSPECTION OF POTATOES, 1922.

Parry Sound District:

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>	<u>No. acres passed</u>	<u>Per cent fields passed</u>	<u>Per cent acres passed</u>			
122	65	32	16 $\frac{3}{4}$	26.2	25.8			
Average per cent disease in total fields inspected	B.L. .32	L.R. 4.9	Mos. 5.5	Wilts .01	E.B. .9	L.B. .01	Rhiz. 3.4	T.B. .9
Average per cent disease in fields passed	.3	1.3	2.8	.009	1.6	.16	4.9	1.4
Average per cent disease in fields rejected	.34	6.2	6.5	.01	.7	.06	2.9	.7

Of the 90 fields rejected, 26 containing 15 $\frac{1}{2}$  acres were rejected owing to

No. fields	No. acres	Reason
29	"	Foreign varieties
26	14 $\frac{1}{2}$	Mosaic
5	2 $\frac{3}{4}$	Leaf roll
4	2	Mosaic and Leaf roll
		Lack of vigour

NORTHERN ONTARIO, (S.F.C.C.)

FIELD INSPECTION OF POTATOES, 1922.

Rainy River District:

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>				<u>No. acres passed</u>				<u>Per cent fields passed</u>	<u>Per cent acres passed</u>
21	25½	6				4½				28.6	18.8
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.			
	.2	5.4	4.2	0.0	1.9	1.9	.5	1.7			
Average per cent disease in fields passed	0.0	1.7	2.9	0.0	0.0	1.7	.8	0.0			
Average per cent disease in fields rejected	.3	6.9	4.7	0.0	2.5	2.0	.3	2.3			

Of the 15 fields rejected, 6 containing 11 acres were rejected owing to Foreign varieties

2	"	4½	"	"	"	"	"	"	"	Leaf-roll
5	"	3	"	"	"	"	"	"	"	Mosaic and Leaf roll
1	"	½	"	"	"	"	"	"	"	Mosaic
1	"	1½	"	"	"	"	"	"	"	Lack of vigour

NORTHERN ONTARIO, (S.F.C.C.)

FIELD INSPECTION OF POTATOES, 1922.

Temiskaming District:

<u>No. fields inspected</u>	<u>No. acres inspected</u>		<u>No. fields passed</u>	<u>No. acres passed</u>		<u>Per cent fields passed</u>	<u>Per cent acres passed</u>	
43	23½		10	4½		23.3	20.4	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.
	1.4	.7	4.1	.01	.2	0.0	3.4	0.0
Average per cent disease in fields passed	.2	1.2	2.3	0.0	1.0	0.0	2.5	0.0
Average per cent disease in fields rejected	1.8	.6	4.7	.02	0.0	0.0	3.6	0.0

Of the 33 fields rejected, 15 containing 9½ acres were rejected owing to foreign varieties

8	"	3½	"	"	"	"	"	" Mosaic
1	"	½	"	"	"	"	"	" Blackleg
5	"	2½	"	"	"	"	"	" Lack of vigour
2	"	1	"	"	"	"	"	" Mosaic and Leaf roll
2	"	1½	"	"	"	"	"	" Mosaic and Blackleg

NORTHERN ONTARIO, (S.F.C.C.)

FIELD INSPECTION OF POTATOES, 1922.

Thunder Bay District:

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>Per cent fields passed</u>			<u>Per cent acres passed</u>
46	24	24		13	52.2		54.2	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilt.	E.B.	L.B.	Rhiz.	T.B.
	.8	.2	2.6	0.0	1.1	.3	1.9	.2
Average per cent disease in fields passed	.3	.1	1.7	0.0	1.2	.4	1.9	0.0
Average per cent disease in fields rejected	1.4	.4	3.6	0.0	.9	.3	1.8	.4

Of the 22 fields rejected, 8 containing 4 acres were rejected owing to Foreign varieties  
 1 " 1/2 " " " " " " " " Blackleg  
 8 " 4 " " " " " " " " Mosaic  
 5 " 2 1/2 " " " " " " " " " Lack of vigour

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NORTHERN ONTARIO, (certified seed)

FIELD INSPECTION OF POTATOES, 1922

Summary:

<u>No. fields inspected</u>	<u>No. acres inspected</u>		<u>No. fields passed</u>		<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
148	231 $\frac{3}{4}$		85		130 $\frac{1}{2}$		57.4		56.3
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	.8	.9	2.8	.1	1.0	.1	2.6	.87	
Average per cent disease in fields passed	.3	.7	1.2	.1	1.2	.2	2.5	1.0	
Average per cent disease in fields rejected	1.1	1.0	4.0	.1	.7	.04	2.8	.7	



NORTHERN ONTARIO, (certified seed)

FIELD INSPECTION OF POTATOES, 1922

Kenora District:

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>				<u>Per cent fields passed</u>			<u>Per cent acres passed</u>
20	21½	7				35		20.9	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	2.2	.8	2.6	.8	1.5	0.0	.5	.25	
Average per cent disease in fields passed	.4	1.1	1.7	.6	2.0	0.0	.7	0.0	
Average per cent disease in fields rejected	3.1	.7	3.2	1.0	1.2	0.0	.4	.4	

Of the 13 fields rejected, 5 containing 11 acres were rejected owing to Blackleg  
 3 " 1½ " " " " " " " Mosaic  
 4 " 4 " " " " " " " Lack of vigour  
 1 " ½ " " " " " " " Wilts

NORTHERN ONTARIO, (certified seed)

FIELD INSPECTION OF POTATOES, 1922

Muskoka District:

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>		<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
13	11 $\frac{1}{2}$	9		8		69.2		71.1
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Ruiz.	T.B.
	.2	.7	2.5	0.0	.4	.4	1.7	1.7
Average per cent disease in fields passed	.2	.3	1.1	0.0	.5	.5	2.2	1.7
Average per cent disease in fields rejected	0.0	1.5	4.8	0.0	0.0	0.0	0.0	1.2

Of the 4 fields rejected, all, containing 3 $\frac{1}{4}$  acres, were rejected owing to Mosaic

NORTHERN ONTARIO, (certified seed)

FIELD INSPECTION OF POTATOES, 1922

Parry Sound District:

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>			<u>Per cent fields passed</u>	<u>Per cent acres passed</u>
4	2	1			1		25	50	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	.8	3.1	7.0	0.0	0.0	0.0	1.2	0.0	
Average per cent disease in fields passed	.3	1.0	3.3	0.0	0.0	0.0	2.0	0.0	
Average per cent disease in fields rejected	.9	3.8	8.3	0.0	0.0	0.0	1.6	0.0	

Of the 3 fields rejected, 2 containing 1 acre were rejected owing to Mosaic

1 "  $\frac{1}{2}$  " " " " " Leaf Roll



NORTHERN ONTARIO, (certified seed)

FIELD INSPECTION OF POTATOES, 1922

Sudbury District:

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>		<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
3	17	1		1½		33.3		8.9
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.
	1.3	.2	2.1	0.0	0.0	0.0	1.6	0.0
Average per cent disease in fields passed	.3	.6	0.0	0.0	0.0	0.0	2.5	0.0
Average per cent disease in fields rejected	1.8	.05	3.1	0.0	0.0	0.0	2.5	0.0

Of the 2 fields rejected, 1 containing 12 acres was rejected owing to foreign varieties

1 " 3½ " " " " " Mosaic and Black-leg

NORTHERN ONTARIO, (certified seed)

FIELD INSPECTION OF POTATOES, 1922

Temiskaming District

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>Per cent fields passed</u>			<u>Per cent acres passed</u>	
11	27	5		16	45.5		59.3		
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	.4	.8	2.2	0.0	.5	0.0	3.0	0.0	
Average per cent disease in fields passed	.3	1.3	.9	0.0	0.0	0.0	2.7	0.0	
Average per cent disease in fields rejected	.5	.4	3.0	0.0	.8	0.0	3.5	0.0	

Of the 6 fields rejected, 3 containing  $8\frac{1}{2}$  acres were rejected owing to Foreign varieties

1	"	1	"	"	"	"	"	" Mosaic
1	"	1	"	"	"	"	"	" Mosaic & Leaf Roll
1	"	$\frac{1}{2}$	"	"	"	"	"	" Lack of vigour

NORTHERN ONTARIO, (certified seed)

FIELD INSPECTION OF POTATOES, 1922.

Thunder Bay District:

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>				<u>No. acres passed</u>			<u>Per cent fields passed</u>	<u>Per cent acres passed</u>
62	94½	44				65			71.0	68.8
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.		
	1.1	.23	1.3	0.0	1.8	.7	4.2	1.0		
Average per cent disease in fields passed	.7	.1	.7	0.0	1.7	.9	4.5	1.3		
Average per cent disease in fields rejected	2.2	.5	2.7	0.0	2.2	.3	5.5	.3		

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Of the 18 fields rejected, 4 containing 5½ acres were rejected owing to Mosaic  
 5 " 1½ " " " " " " Blackleg  
 4 " 3½ " " " " " " Lack of vigour  
 4 " 4½ " " " " " " Foreign varieties  
 1 " 2 " " " " " " Mosaic and leaf roll

SOUTHERN ONTARIO, S.F.C.C.

FIELD INSPECTION OF POTATOES, 1922

SUMMARY

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>			<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
246	266 $\frac{5}{4}$	69			73 $\frac{1}{2}$			28		27.6
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.		
	.29	4.8	3.5	.06	.09	0.0	.56	.1		
Average per cent disease in fields passed	.19	2.7	1.1	.02	.5	0.0	.6	1.3		
Average per cent disease in fields rejected	.37	5.6	4.0	.009	0.0	0.0	.5	.1		

SOUTHERN ONTARIO, S.F.C.C.,  
FIELD INSPECTION OF POTATOES, 1922.

Bruce Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>		<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>per cent acres passed</u>
10	10½	1		1		10		9.5
Average per cent in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.
	.12	7.0	4.0	0.0	0.0	0.0	1.0	0.0
Average per cent disease in fields passed	0.0	2.6	1.3	0.0	0.0	0.0	0.0	0.0
Average per cent disease in fields rejected	.13	7.5	4.3	0.0	0.0	0.0	1.1	0.0

The nine fields containing 9½ acres rejected, were all rejected owing to Leaf Roll

SOUTHERN ONTARIO, S.F.C.C.

FIELD INSPECTION OF POTATOES, 1922

Carleton Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>			<u>No. fields passed</u>			<u>No. acres passed</u>			<u>Per cent fields passed</u>	<u>Per cent acres passed</u>
9	9			1			1			11.1	11.1
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.			
	.06	7.5	2.0	0.0	0.0	0.0	1.2	0.0			
Average per cent disease in fields passed	0.0	4.0	.3	0.0	0.0	0.0	1.0	0.0			
Average per cent disease in fields rejected	.07	7.9	2.3	0.0	0.0	0.0	1.3	0.0			

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of the 8 fields rejected, 2 containing 2 acres were rejected owing to Foreign varieties

4	"	4	"	"	"	"	"	"	Leaf roll
1	"	1	"	"	"	"	"	"	Leaf Roll and Mosaic
1	"	1	"	"	"	"	"	"	Mosaic

SOUTHERN ONTARIO, S.F.C.C.

FIELD INSPECTION OF POTATOES, 1922

Dufferin Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>			<u>Per cent fields passed</u>	<u>Per cent acres passed</u>
51	59½	21			21			41.2	35.3
Average per cent disease in total fields inspected	B.L. 1.2	L.R. 1.1	Mos. 4.3	Wilts 0.0	E.B. 0.0	L.B. 0.0	Rhiz. 1.5	T.B. 0.0	
Average per cent disease in fields passed	.66	1.2	2.1	0.0	0.0	0.0	1.2	.5	
Average per cent disease in fields rejected	1.7	1.1	5.9	0.0	0.0	0.0	1.3	0.0	

Of the 30 fields rejected, 12 containing 16 acres were rejected owing to

11	"	13	"	"	"	"	"	"	Mosaic
3	"	4	"	"	"	"	"	"	Foreign varieties
2	"	3½	"	"	"	"	"	"	Mosaic & Leaf Roll
1	"	1	"	"	"	"	"	"	Mosaic & Blackleg
1	"	1	"	"	"	"	"	"	Blackleg & Leaf Roll

SOUTHERN ONTARIO, S.F.C.C.

FIELD INSPECTION OF POTATOES, 1922

Durham Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>		<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
13	13	0	0	0	0	0	0	0
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.
	0.0	2.8	1.9	0.0	0.0	0.0	.4	0.0

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Two fields containing 2 acres were rejected owing to Leaf Roll

Eleven fields containing 11 acres were rejected owing to Foreign Varieties

SOUTHERN ONTARIO, S.F.C.C.

FIELD INSPECTION OF POTATOES, 1922

Grey Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>			<u>Per cent fields passed</u>	<u>Per cent acres passed</u>
31	35 $\frac{1}{4}$	10			12			32.2	36.1
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	1.3	2.6	4.9	0.0	0.0	0.0	.5	0.0	
Average per cent disease in fields passed	0.0	1.2	2.1	0.0	0.0	0.0	.5	0.0	
Average per cent disease in fields rejected	1.9	3.2	6.2	0.0	0.0	0.0	.5	0.0	

Of the 21 fields rejected, 10 containing 10 acres were rejected owing to

4	"	4	"	"	"	"	"	"	Leaf Roll
1	"	1	"	"	"	"	"	"	Mosaic
4	"	4 $\frac{1}{2}$	"	"	"	"	"	"	Leaf Roll
									Foreign varieties
2	"	2	"	"	"	"	"	"	Lack of vigour

SOUTHERN ONTARIO, S.F.C.C.

FIELD INSPECTION OF POTATOES, 1922

Halton Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>	<u>No. acres passed</u>	<u>Per cent fields passed</u>			<u>Per cent acres passed</u>	
11	11	6	6	54.5			54.5	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.
	.03	4.6	1.4	0.0	0.0	0.0	0.0	0.0
Average per cent disease in fields passed	.05	2.6	1.4	0.0	0.0	0.0	0.0	0.0
Average per cent disease in fields rejected	0.0	7.1	1.4	0.0	0.0	0.0	0.0	0.0

Of the 5 fields rejected, 2 were rejected owing to Leaf Roll, containing 2 acres  
 3 " " " " Foreign varieties, " 3 "

SOUTHERN ONTARIO, S.F.C.C.

FIELD INSPECTION OF POTATOES, 1922

Hastings Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>			<u>Per cent fields passed</u>	<u>Per cent acres passed</u>
47	43½	7			9½		14.9	21.8	
Average per cent disease in total fields inspected	B.L. .28	L.R. 6.3	Mos. 5.8	Wilts .12	E.B. 0.0	L.B. 0.0	Rhiz. .14	T.B. .5	
Average per cent disease in fields passed	.4	2.5	1.3	.14	0.0	0.0	.7	0.0	
Average per cent disease in fields rejected	.25	7.0	6.6	.1	0.0	0.0	1.5	.6	

Of the 40 fields rejected, 18 containing 17½ acres were rejected

7	"	5½	"	"	"	"	owing to Mosaic and Leaf Roll
8	"	5½	"	"	"	"	owing to Foreign varieties
6	"	5	"	"	"	"	owing to Lack of vigour
1	"	½	"	"	"	"	owing to Leaf Roll
							owing to Blackleg

SOUTHERN ONTARIO, S.F.C.C.

FIELD INSPECTION OF POTATOES, 1922

Middlesex Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>		<u>Per cent fields passed</u>	<u>Per cent acres passed</u>	
13	13	2			2		15.4		15.4
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
.4	.4	.5	9.2	.23	.8	0.0	.8	.8	
Average per cent disease in fields passed	1.0	.4	2.9	.15	5.0	0.0	0.0	18.0	
Average per cent disease in fields rejected	.3	.5	10.4	0.0	0.0	0.0	.9	.9	

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Of the 11 fields rejected, 6 containing 6 acres were rejected owing to Mosaic

5 " 5 " " " " " Foreign varieties

SOUTHERN ONTARIO, S.F.C.C.

FIELD INSPECTION OF POTATOES, 1922

Ontario Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>			<u>Per cent fields passed</u>	<u>Per cent acres passed</u>
11	11	0			0			0	0
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	0.0	8.3	5.6	0.0	0.0	0.0	0.0	0.0	0.0

The 11 fields containing 11 acres were rejected owing to Mosaic and Leaf Roll.

Russell Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>			<u>Per cent fields passed</u>	<u>Per cent acres passed</u>
1	1	1			1		100	100	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	0.0	0.0	.3	0.0	0.0	0.0	1.0	0.0	

SOUTHERN ONTARIO, S.F.C.C.

FIELD INSPECTION OF POTATOES, 1922

Simcoe Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>Per cent fields passed</u>			<u>Per cent acres passed</u>
10	10	5		5		50	50	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.
	0.0	5.5	.3	0.0	0.0	0.0	0.0	0.0
Average per cent disease in fields passed	0.0	2.1	.6	0.0	0.0	0.0	0.0	0.0
Average per cent disease in fields rejected	0.0	9.0	.06	0.0	0.0	0.0	0.0	0.0

Of the 5 fields rejected, 4 containing 4 acres were rejected owing to Leaf Roll

1 " 1 " " " " " " Lack of vigour

SOUTHERN ONTARIO, S.F.C.C.

FIELD INSPECTION OF POTATOES, 1922

Wellington Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>Per cent fields passed</u>			<u>Per cent acres passed</u>	
12	12	6	6	6	50	50			
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	.5	1.5	3.0	0.0	0.0	0.0	0.0	0.0	
Average per cent disease in fields passed	.4	1.1	2.0	0.0	0.0	0.0	0.0	0.0	
Average per cent disease in fields rejected	.7	1.9	4.1	0.0	0.0	0.0	0.0	0.0	

Of the 6 fields rejected, 2 containing 2 acres were rejected owing to Mosaic & Leaf Roll

1	"	1	"	"	"	"	"	"	Mosaic
3	"	3	"	"	"	"	"	"	Foreign varieties

SOUTHERN ONTARIO, S.F.C.C.

FIELD INSPECTION OF POTATOES, 1922:

Wentworth Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>		<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>	
13	13	7		7		53.8		53.8	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	W.I.T.s	E.B.	L.B.	Rhiz.	T.B.	
	.05	2.8	1.7	0.0	0.0	0.0	2.3	0.0	
Average per cent disease in fields passed	.04	2.6	.9	0.0	0.0	0.0	4.0	0.0	
Average per cent disease in fields rejected	.05	3.1	2.6	0.0	0.0	0.0	0.0	0.0	

Of the 6 fields rejected, 5 containing 5 acres were rejected owing to Foreign varieties  
 1 " 1 " " " " " " Leaf Roll & Mosaic



SOUTHERN ONTARIO, (certified seed)

FIELD INSPECTION OF POTATOES, 1922

Summary

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
136	327 $\frac{3}{4}$	68			152 $\frac{1}{4}$	50		47.2	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	.3	2.2	4.1	0.0	.7	1.2	1.2	3.1	
Average per cent disease in fields passed	.3	1.0	1.1	0.0	.7	.5	.7	1.7	
Average per cent disease in fields rejected	.1	3.1	5.3	0.0	.4	1.0	1.0	2.6	

SOUTHERN ONTARIO, (certified seed)

FIELD INSPECTION OF POTATOES, 1922.

Bruce Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>			<u>Per cent fields passed</u>	<u>Per cent acres passed</u>
2	3 $\frac{1}{2}$	0	0	0	0	0	0	0	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	0.0	1.3	20.1	0.0	0.0	0.0	2.5	0.0	

These two fields, containing 3 $\frac{1}{2}$  acres, were rejected owing to Mosaic

Carleton Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>			<u>Per cent fields passed</u>	<u>Per cent acres passed</u>
2	1 $\frac{1}{2}$	2	2	1 $\frac{1}{2}$	100	100	100	100	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	2.8	0.0	0.0	0.0	0.0	0.0	2.5	0.0	

SOUTHERN ONTARIO, (certified seed)

FIELD INSPECTION OF POTATOES, 1922

Dufferin Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>			<u>Per cent fields passed</u>	<u>Per cent acres passed</u>
9	28½	1			2		11.1	7.0	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	.6	.8	12.1	0.0	0.0	0.0	.7	0.0	
Average per cent disease in fields passed	0.0	1.6	1.6	0.0	0.0	0.0	E.O.	0.0	
Average per cent disease in fields rejected	.7	.9	13.4	0.0	0.0	0.0	.5	0.0	

Of the 8 fields containing 26½ acres rejected, all were rejected owing to mosaic

SOUTHERN ONTARIO, (certified seed)

FIELD INSPECTION OF POTATOES, 1922

Durham Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>			<u>Per cent fields passed</u>	<u>Per cent acres passed</u>
5	5	1			1			20	10
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	0.0	1.4	4.7	0.0	0.0	0.0	2.0	15.0	
Average per cent disease in fields passed	0.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	
Average per cent disease in fields rejected	0.0	1.1	5.6	0.0	0.0	0.0	2.5	18.6	

Of the 4 fields rejected, 3 containing  $3\frac{1}{2}$  acres were rejected owing to Mosaic

1 " 1 " " " " " " Lack of Vigour

SOUTHERN ONTARIO, 1922 (certified seed)

FIELD INSPECTION OF POTATOES, 1922

Elgin Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>		<u>No. fields passed</u>		<u>No. acres passed</u>		<u>Per cent fields passed</u>	<u>Per cent acres passed</u>
10	10½		6		9½		60	88.1
Average per cent disease in total fields inspected	B.L..	L.R.	Mos.	Wilts	E.B.L.	L.B.	Rhiz.	T.B.
	.03	7.6	.6	0.0	.5	1.0	1.0	2.5
Average per cent disease in fields passed	.05	.6	.5	0.0	.8	1.6	1.6	4.0
Average per cent disease in fields rejected	0.0	18.5	.5	0.0	0.0	0.0	0.0	0.0

Of the 4 fields, containing 1½ acres, all were rejected owing to Leaf Roll.

SOUTHERN ONTARIO, (certified seed)

FIELD INSPECTION OF POTATOES, 1922

Grey Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>Per cent fields passed</u>			<u>Per cent acres passed</u>
1	1	0		0	0		0	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.
	0.0	2.0	1.6	0.0	0.0	0.0	0.0	0.0

This field was rejected owing to foreign varieties

Hastings Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>Per cent fields passed</u>			<u>Per cent acres passed</u>
3	6	3		6	100		100	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.
	.5	.4	3.3	0.0	0.0	0.0	1.6	0.0



SOUTHERN ONTARIO, (certified seed)

FIELD INSPECTION OF POTATOES, 1922

Lanark Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>Per cent fields passed</u>			<u>Per cent acres passed</u>	
16	14 <sup>3</sup> / <sub>4</sub>	10			12 <sup>3</sup> / <sub>4</sub>	62.4		91.1	
Average per cent disease in total fields inspected	B.L. .04	L.R. 1.9	Mos. 1.1	Wilts 0.0	E.B. .3	L.B. 0.0	Rhiz. 1.2	T.B. .6	
Average per cent disease in fields passed	0.0	1.2	.03	0.0	0.0	0.0	.5	0.0	
Average per cent disease in fields rejected	.1	3.0	3.0	0.0	.8	0.0	2.5	1.6	

Of the 6 fields rejected, 2 containing  $\frac{1}{2}$  acre were rejected owing to Foreign varieties

2	"	$\frac{1}{2}$	"	"	"	"	"	"	Mosaic
2	"	$\frac{1}{2}$	"	"	"	"	"	"	Lack of vigour

SOUTHERN ONTARIO, (certified seed)

FIELD INSPECTION OF POTATOES, 1922

Leeds Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>Per cent fields passed</u>			<u>Per cent acres passed</u>
5	5½	1		1		20	19	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.
	0.0	3.2	1.6	0.0	0.0	0.0	.8	1.3
Average per cent disease in fields passed	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0
Average per cent disease in fields rejected	0.0	4.0	1.6	0.0	0.0	0.0	1.2	2.5

Of the 4 fields rejected, 2 containing 2½ acres were rejected owing to Foreign varieties

1	"	1	"	"	"	"	"	" Mosaic
1	"	¾	"	"	"	"	"	" Leaf Roll

SOUTHERN ONTARIO, (certified seed)

FIELD INSPECTION OF POTATOES, 1922

Middlesex Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
7	27	3			14	42.9		51.8	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	.03	.3	2.3	0.0	0.0	2.8	.7	3.9	
Average per cent disease in fields passed	.06	.4	1.4	0.0	0.0	0.0	1.6	2.0	
Average per cent disease in fields rejected	0.0	.25	3.0	0.0	0.0	5.0	1.5	6.9	

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Of the 4 fields rejected, 1 containing 4 acres was rejected owing to Mosaic & Foreign varieties  
 1 " 3 " " " " " " " Foreign varieties  
 2 " 6 " " " " " " " Lack of vigour

SOUTHERN ONTARIO, (certified seed)

FIELD INSPECTION OF POTATOES, 1922

Norfolk Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>		<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
9	20½	7		13½		77.7		65.9
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.
	.03	.8	1.0	0.0	2.9	3.6	.5	5.0
Average per cent disease in fields passed	.04	.9	.09	0.0	3.6	4.7	.7	4.3
Average per cent disease in fields rejected	0.0	.6	4.0	0.0	0.0	2.5	0.0	5.0

Of the 2 fields rejected, 1 containing 6 acres was rejected owing to Mosaic.

1 " 1 " " " " " Foreign varieties.

SOUTHERN ONTARIO, (certified seed)

FIELD INSPECTION OF POTATOES, 1922

Ontario Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>Per cent fields passed</u>			<u>Per cent acres passed</u>
8	52½	1		2		12.5	3.8	
Average per cent disease in total fields inspected	B.L. .5	L.R. 3.9	Mos. 5.2	Wilts 0.0	E.B. 0.0	L.B. 0.0	Rhiz. 0.0	T.B. 3.7
Average per cent disease in fields passed	1.3	2.6	1.0	0.0	0.0	0.0	0.0	0.0
Average per cent disease in fields rejected	.3	4.1	5.8	0.0	0.0	0.0	0.0	4.3

Of the 7 fields rejected, 2 containing 24 acres were rejected owing to Mosaic

3	"	19½	"	"	"	"	"	" Foreign varieties
1	"	3	"	"	"	"	"	" Leaf Roll
1	"	4	"	"	"	"	"	" Mosaic & Leaf Roll

SOUTHERN ONTARIO, (certified seed)

FIELD INSPECTION OF POTATOES, 1922

Peel Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>Per cent fields passed</u>		<u>Per cent acres passed</u>	
5	4	0		0	0		0	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.
	0.0	8.8	1.3	0.0	0.0	0.0	0.0	0.0

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Of these 5 fields, 4 containing 3 acres were rejected owing to Leaf Roll.

1 " 1 " " " " " Foreign varieties.

SOUTHERN ONTARIO, (certified seed)

FIELD INSPECTION OF POTATOES, 1922

Peterboro' Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>	<u>No. acres passed</u>	<u>Per cent fields passed</u>		<u>Per cent acres passed</u>		
7	7	5	4½	71.4		64.3		
Average per cent disease in total fields inspected	B.L. 0.0	L.R. 2.3	Mos. 1.1	Wilts 0.0	E.B. .7	L.B. 0.0	Rhiz. .7	T.B. 3.5
Average per cent disease in fields passed	0.0	.8	.6	0.0	1.0	0.0	1.0	5.0
Average per cent disease in fields rejected	0.0	6.0	5.0	0.0	0.0	0.0	0.0	0.0

Of the 2 fields rejected 1 containing ½ acre was rejected owing to Leaf Roll & Mosaic

1 " 2 " " " " " " Lack of vigour

SOUTHERN ONTARIO, (certified seed)

FIELD INSPECTION OF POTATOES, 1922

Simcoe Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>				<u>Per cent fields passed</u>		<u>Per cent acres passed</u>	
10	39	4		13		40		33.3	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	.09	4.8	4.5	0.0	.5	.5	1.5	1.2	
Average per cent disease in fields passed	.15	2.6	.5	0.0	1.2	0.0	1.2	1.9	
Average per cent disease in fields rejected	.05	6.2	7.2	0.0	0.0	0.8	1.6	.8	

Of the 6 fields rejected, 3 containing 13 acres were rejected owing to Mosaic

3 " 13 " " " " " " Leaf Roll

SCUTHERN ONTARIO, (certified seed)

FIELD INSPECTION OF POTATOES, 1922

Welland Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>			<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
15	19½	15			19½			100	100	
Average per cent disease in total fields inspected	E.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.		
	0.0	.7	.1	0.0	5.0	3.3	.3	10.0		

Wellington Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>			<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
12	60½	6			45			50	74.4	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.		
	.2	1.8	6.6	0.0	.8	.8	2.0	.8		
Average per cent disease in fields passed										
	.3	1.3	1.1	0.0	1.6	0.0	1.6	1.6		
Average per cent disease in fields rejected										
	.1	2.3	12.1	0.0	0.0	1.6	2.5	0.0		

Of the 6 fields rejected, 1 containing 11 acres were rejected owing to Mosaic  
 1 " 3 " " " " " Leaf Roll  
 1 " 1½ " " " " " Foreign varieties

SOUTHERN ONTARIO, (certified seed)

FIELD INSPECTION OF POTATOES, 1922

Wentworth Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>Per cent fields passed</u>			<u>Per cent acres passed</u>
5	8	2		4		40	50	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.
	0.0	.8	10.3	0.0	0.0	0.0	0.0	3.0
Average per cent disease in fields passed	0.0	.1	2.1	0.0	0.0	0.0	0.0	5.0
Average per cent disease in fields rejected	0.0	1.3	15.8	0.0	0.0	0.0	0.0	1.6

Of the 3 fields rejected, 2 containing  $2\frac{1}{2}$  acres were rejected owing to mosaic

1 "  $1\frac{1}{2}$  " " " " " Foreign varieties

SOUTHERN ONTARIO, (certified seed)

FIELD INSPECTION OF POTATOES, 1922

York Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>		<u>Per cent fields passed</u>	<u>Per cent acres passed</u>
2	5 $\frac{1}{2}$	1			4	50	72.7	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.
	1.1	1.4	3.8	0.0	0.0	0.0	.5	0.0
Average per cent disease in fields passed	1.6	1.6	1.6	0.0	0.0	0.0	1.0	0.0
Average per cent disease in fields rejected	.6	1.3	6.0	0.0	0.0	0.0	0.0	0.0

The 1 field containing 1 $\frac{1}{2}$  acres rejected, was rejected owing to Mosaic

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EARLY BLIGHT, caused by  
Alternaria solani (E. & M.) J. & G.

This disease was quite common, and in August and September the foliage was considerably spotted. The spots were not large and rarely coalesced, and it is not likely that the resulting loss in yield was appreciable.

LATE BLIGHT, caused by  
Phytophthora infestans (Mont.) deBary

Not seen to any extent.

MOSAIC and LEAF ROLL: cause unknown

Were present, but not serious, although aphids were found in considerable numbers during mid October.

TIP BURN

Was prevalent during September, and leaf hoppers were common on late varieties.

BLACK DOT, caused by Verinicularia sp.

This new disease which is being studied by the author was of frequent occurrence during the latter part of this season. In some fields it was present to the extent of 5%. It is impossible to say yet whether it causes serious injury, but

it was usual to find affected plants dying down two or three weeks earlier than healthy ones in the same plot. The root systems, stolons and ground-level stem tissues are attacked and killed. The development of tubers depends upon the stage at which the stolons are affected.

The following are summaries of disease prevalence by counties as determined by the seed certification service:-

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FIELD INSPECTION OF POTATOES, 1922

Summary

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>	<u>No. acres passed</u>	<u>Per cent fields passed</u>		<u>Per cent acres passed</u>		
682	2369 $\frac{1}{2}$	526	1956 $\frac{1}{2}$	77.1		82.6		
Average per cent disease in total fields inspected	B.L. .29	L.R. .26	Mos. 1.6	Wilts .07	E.B. .58	L.B. .42	Rhiz. .7	T.B. .06
Average per cent disease in fields passed	.19	.24	.58	.075	.65	.63	.54	.03
Average per cent disease in fields rejected	.35	.52	4.1	.03	.05	.02	.83	.11

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FIELD INSPECTION OF POTATOES, 1922.

Arthabasca Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent Acres passed</u>
3	2 $\frac{1}{2}$	2			1 $\frac{1}{2}$	66		70	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	0.0	.3	7.2	0.0	0.0	0.0	0.0	0.0	
Average per cent disease in fields passed	0.0	.5	.8	0.0	0.0	0.0	0.0	0.0	
Average per cent disease in field rejected	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	

The field containing  $\frac{3}{4}$  acre, rejected, was rejected owing to Mosaic.

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FIELD INSPECTION OF POTATOES, 1922

Bagot Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>Per cent fields passed</u>			<u>Per cent acres passed</u>
2	5½	2			100		100	
Average per cent disease in fields inspected and passed	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.
	0.0	.1	.1	0.0	0.0	0.0	0.0	0.0

Bellechasse Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>Per cent fields passed</u>			<u>Per cent acres passed</u>
1	2	1			100		100	
Average per cent disease in field inspected and passed	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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FIELD INSPECTION OF POTATOES, 1922

Bonaventure Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>			<u>Per cent fields passed</u>	<u>Per cent acres passed</u>
95	163½	76			130½		80	79.8	
Average per cent disease in total fields inspected	B.L. .3	L.R. .2	Mos. .6	Wilts .05	E.B. 0.0	L.B. .16	Khiz. .8	T.P. .1	
Average per cent disease in fields passed	.3	.14	.46	.02	0.0	.16	.33	0.0	
Average per cent disease in fields rejected	.27	.42	1.2	.2	0.0	0.0	2.7	.5	

Of the 19 fields rejected, 1 containing 1½ acres was rejected owing to Blackleg & Wilt  
 1 " 1 " " " " " Mosaic & Leaf Roll  
 1 " ½ " " " " " Leaf Roll & Mosaic  
 2 " 3 " were " " " Lack of vigour  
 1 " 3 " was " " " Insect Injury  
 13 " 24 " were " " " Foreign varieties

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FIELD INSPECTION OF POTATOES, 1922

Champlain Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>		<u>Per cent fields passed</u>	<u>Per cent acres passed</u>
4	6½	3		5		75	85.3	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.
	.07	.07	7.7	.07	0.0	1.2	0.0	0.0
Average per cent disease in fields passed	.1	0.0	.2	.1	0.0	5.0	0.0	0.0
Average per cent disease in fields rejected	0.0	.3	30.0	0.0	0.0	0.0	0.0	0.0

The field rejected, containing 1½ acres, was rejected owing to Mosaic

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FIELD INSPECTION OF POTATOES, 1922

Charlevoix Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>			<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
26	204	25			200			96.2	98.0	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.		
	.24	.68	.18	.04	.38	.38	1.3	.2		
Average per cent disease in fields passed	.23	.47	.13	.04	.4	.4	1.0	.2		
Average per cent disease in fields rejected	.3	6.0	1.3	0.0	0.0	0.0	3.0	0.0		

The field rejected, containing 4 acres, was rejected owing to Leaf Roll

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FIELD INSPECTION OF POTATOES, 1922

Dorchester Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>Per cent fields passed</u>			<u>Per cent acres passed</u>
2	1 $\frac{1}{4}$	2			1 $\frac{1}{4}$	100		100
Average per cent disease in fields inspected and passed	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.
	.5	1.8	1.5	0.0	0.0	0.0	0.0	0.0

Drummond Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>Per cent fields passed</u>			<u>Per cent acres passed</u>
1	2	1			2	100		100
Average per cent disease in fields inspected and passed	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.
	0.0	0.0	.6	0.0	0.0	0.0	0.0	0.0



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FIELD INSPECTION OF POTATOES, 1922

Jacques Cartier Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>			<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
2	1	2	1	1	100	100			100	
Average per cent disease in total fields inspected and passed	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.		
	.3	0.0	1.3	.2	2.0	0.0	0.0	0.0		

Kamouraska Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>			<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
7	17 $\frac{3}{4}$	5	12 $\frac{3}{4}$	71.4	71.8					
Average per cent disease in fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.		
	.1	.3	1.1	.04	0.0	0.0	0.0	0.0		
Average per cent disease in fields passed										
	.1	.4	.3	.06	0.0	0.0	0.0	0.0		
Average per cent disease in fields rejected										
	0.0	.3	3.1	0.0	0.0	0.0	0.0	0.0		

Of the 2 fields rejected, 1 containing 1 $\frac{1}{2}$  acres was rejected owing to Mosaic  
 1 " 3 $\frac{1}{2}$  " " " " " " Foreign Varieties

Total 4 5

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FIELD INSPECTION OF POTATOES, 1922

La Prairie Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
1	1	1	1	1	1	100	100	100	
Average per cent disease in field inspected and passed	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Lac St. Jean Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
34	39½	7	7	7½	7½	20.6	18.9	18.9	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	1.0	.12	4.9	.02	0.0	0.0	1.7	0.0	
Average per cent disease in fields passed	.3	.5	2.5	0.0	0.0	0.0	0.0	0.0	
Average per cent disease in fields rejected	1.2	.02	6.3	.02	0.0	0.0	2.4	0.0	

Of the 27 fields rejected, 20 containing 23 acres were rejected owing to Mosaic  
 1 " 3 " was " " " Mosaic & Blackleg  
 2 " 1½ " were " " " Blackleg  
 4 " 4½ " " " " Foreign varieties  
 Total 27 32

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FIELD INSPECTION OF POTATOES, 1922

Laval Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
23	63	22			60		95.7		95.2
Average per cent disease in fields inspected	B.L. .16	L.R. .31	Mos. .37	Wilts .01	E.B. 3.7	L.B. 0.0	Rhiz. 2.8	T.B. 0.0	
Average per cent disease in fields passed	.17	.32	.39	.01	3.9	0.0	3.0	0.0	
Average per cent disease in fields rejected	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

One field containing 3 acres was rejected owing to foreign varieties

Levis Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
4	9½	4			9½		100		100
Average per cent disease in total fields inspected	B.L. .07	L.R. .5	Mos. .3	Wilts .3	E.B. 0.0	L.B. 0.0	Rhiz. 0.0	T.B. 0.0	

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FIELD INSPECTION OF POTATOES, 1922

L'Islet Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>		<u>No. fields passed</u>		<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
12	50½		9		41		75		81.2
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	.2	.1	.2	.025	0.0	0.0	0.0	0.0	
Average per cent disease in fields passed	.3	.13	.25	.03	0.0	0.0	0.0	0.0	
Average per cent disease in fields rejected	0.0	.1	.1	.2	0.0	0.0	0.0	0.0	

Of the 3 fields containing 9½ acres rejected, all were rejected owing to foreign varieties.



QUEBEC

FIELD INSPECTION OF POTATOES, 1922

Megantic Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>			<u>Per cent fields passed</u>	<u>Per cent acres passed</u>
8	7½	4			4½			50	56.7
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	1.0	.2	.9	.1	.6	0.0	0.0	.6	
Average per cent disease in fields passed	.07	0.0	1.1	.3	1.2	0.0	0.0	0.0	
Average per cent disease in fields rejected	2.0	.3	.7	0.0	0.0	0.0	0.0	1.1	

Of the 4 fields rejected, 3 containing 2½ acres were rejected owing to Foreign varieties

1 " 2 " was " " " Blackleg

Total 4 " 4½

QUEBEC

FIELD INSPECTION OF POTATOES, 1922

Montmagny Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>	<u>No. acres passed</u>	<u>Per cent fields passed</u>			<u>Per cent acres passed</u>	
2	2	2	2	100			100	
Average per cent disease in fields inspected and passed	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.
	.15	.15	.45	0.0	0.0	0.0	0.0	0.0

Rimouski Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>	<u>No. acres passed</u>	<u>Per cent fields inspected</u>			<u>Per cent acres inspected</u>	
141	616 $\frac{3}{4}$	135	578 $\frac{3}{4}$	95.7			93.8	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.
	.4	.1	.7	.02	1.1	0.0	1.6	0.0
Average per cent disease in fields passed								
	.4	.1	.6	0.0	1.0	0.0	1.7	0.0
Average per cent disease in fields rejected								
	.7	.2	2.6	0.0	.8	0.0	1.7	0.0

Of the 6 fields rejected, 5 containing 12 acres were rejected owing to Foreign varieties  
 1 " 26 " was " " " Mosaic

QUEBEC

FIELD INSPECTION OF POTATOES, 1922

Rouville Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
1	2	1	2	3	4	5	6	7	
Average per cent disease in field inspected and passed	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	0.0	0.0	.6	.3	0.0	0.0	0.0	0.0	

St. Hyacinthe Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
1	1	1	2	3	4	5	6	7	
Average per cent disease in fields inspected and passed	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	

QUEBEC

FIELD INSPECTION OF POTATOES, 1922

Shefford Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
9	2½	8			1½		88.8	60.0	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	
Average per cent disease in fields passed	0.0	0.0	.9	0.0	0.0	0.0	0.0	0.0	
Average per cent disease in fields rejected	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	

One field containing one acre was rejected owing to Mosaic

QUEBEC

FIELD INSPECTION OF POTATOES, 1922

Temiscouata Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>				<u>Per cent fields passed</u>			<u>Per cent acres passed</u>
122	438 $\frac{3}{4}$	82				67.2			61.3
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	.9	.06	1.4	.32	0.0	.2	.4	0.0	
Average per cent disease in fields passed	.65	.02	.45	.32	0.0	.24	.3	0.0	
Average per cent disease in fields rejected	1.4	.14	3.3	.3	0.0	.12	.62	0.0	

Of the 40 fields rejected, 30 containing 116 acres were rejected owing to Foreign varieties

7	"	32 $\frac{3}{4}$	"	"	"	"	"	"	Mosaic
3	"	8	"	"	"	"	"	"	Mosaic & Blackleg

Total 40 156 $\frac{3}{4}$

QUEBEC

FIELD INSPECTION OF POTATOES, 1922

Terrebonne Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>			<u>No. fields passed</u>			<u>No. acres passed</u>		<u>Per cent fields passed</u>	<u>Per cent acres passed</u>
39	85 $\frac{3}{4}$			38			79 $\frac{3}{4}$		97.4	93.0
Average per cent disease in total fields inspected	B.L.	L.F.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.		
	.2	.34	.3	.09	3.0	.6	1.8	0.0		
Average per cent disease in fields passed	.2	.34	.3	.09	3.0	.6	1.8	0.0		
Average per cent disease in field rejected	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

One field containing 6 acres was rejected owing to Foreign varieties.

NEW BRUNSWICK -

BLACK LEG, caused by  
Bacillus Solaniasaprus Har.

Practically no fields are free from this disease. The amount varies from 1% to 10%; more abundant this year than usual. Two fields planted with seed in which Black leg had not been present for three seasons at least, developed the disease, indicating that it might have been carried in the soil. There were no reasons for anticipating other sources of infection.

LATE BLIGHT, caused by  
Phytophthora infestans (Mont.) DeBary

This fungus usually causes considerable loss in New Brunswick, frequently amounting to 25 and 50% of the crop. Spraying with Bordeaux mixture, which is the general practice among the larger growers, successfully controls the disease. The south-eastern section of the province, where the growers do not spray, and which is subject to heavy fogs, always has heavy infection, resulting in low yields and large percentage of rot; this season running as high as 15%.

MOSAIC: cause unknown

This disease has been common for at least eight seasons. During that period it has been increasing except where vigorous roguing and selection has been practised, favored by favorable climatic conditions

and the absence of aphid. Field studies undoubtedly prove that the aphid spreads the disease. Further, that the rose bush is the chief if not the only host of the aphid. Localities without rose bushes are free from aphid and the native potato stock in these localities is relatively free from Mosaic. Restigouche and parts of Gloucester counties have many localities suitable for the production of Mosaic-free seed stock. Considerable stock is now available containing less than 2% Mosaic, and much of it with less than 1%. The symptoms are more easily noted on Green Mountains, Bliss Triumphs, American Giants, than on Irish Cobblers, Cumming's Pride and varieties of the Rural group.

LEAF ROLL: cause unknown

This disease is not nearly so common as Mosaic. It occurs more commonly on the Irish Cobbler and other blue sprout varieties. Varieties of the Green Mountains are relatively free from it.

SPINDLING TUBER TROUBLE

A trouble resulting in low yields, long pointed tubers accompanied by an excessive number of deep eyes, has been on the increase during the last three years. This trouble is chiefly noticeable in Irish Cobblers and Spaulding Rose seed stock. Only three strains of Irish Cobblers are known to show less than 5%, and many fields

will show from 25 to 50%. The cause is not known; nevertheless it is now established that the trouble is spreading and increasing rapidly.

DROP, caused by  
Sclerotinia libertiana Fck.

This fungus was first noted in potato fields at Centreville, N.B., in 1919. It has not been noted in that district since. In 1922 it was found to be somewhat common in Restigouche County in conjunction with *Botrytis cinerea*, causing a premature wilting of the plants.

GRAY MOLD, caused by  
Botrytis cinerea Pers.

This fungus has been found in the same fields with *Sclerotinia* as described under *Sclerotinia libertiana*. It appears to cause premature death of the plants and may be more injurious than suspected.

EARLY BLIGHT, caused by  
Alternaria solani (E. & M.) J. & G.

It is not considered serious. It occurs on the early varieties and undoubtedly causes considerable loss. It does not develop to any marked extent on the late varieties.

WILTS, caused by  
(Fusarium oxysporum Schl.  
(Verticillium albo-atrum McA.

Wilts are present, but of relatively little importance, except during very warm seasons. Very few fields developed this disease in 1922.

The following tables of disease prevalence are summarized for the province, as well as by counties. The prevailing causes for failure of certain fields to come up to standard for certification are also given:-

NEW BRUNSWICK

FIELD INSPECTION OF POTATOES, 1922

Summary:-

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>Per cent fields passed</u>			<u>Per cent acres passed</u>
785	3134½	316			1258½	40.3	40.1	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.
	1.0	.36	10.1	.03	1.3	1.2	1.4	.08
Average per cent disease in total fields passed	.39	.31	1.4	.02	1.5	1.1	2.1	.1
Average per cent disease in total fields rejected	1.3	.42	14.4	.03	1.1	1.2	1.4	.06

NEW BRUNSWICK

FIELD INSPECTION OF POTATOES, 1922

Alberta Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>Per cent fields passed</u>			<u>Per cent acres passed</u>
13	16 $\frac{3}{4}$	8	10 $\frac{3}{4}$		61.5			64.2
Average per cent disease in total fields inspected	B.L. .09	L.R. .02	Mos. 2.27	Wilts .02	E.B. .8	L.B. 0.0	Rhiz. .8	T.B. 0.0
Average per cent disease in fields passed	.16	0.0	.73	.03	1.2	0.0	1.2	0.0
Average per cent disease in fields rejected	0.0	.05	4.75	0.0	0.0	0.0	0.0	0.0

Of the 5 fields rejected, 3 containing 4 acres were rejected owing to Mosaic

1	"	1	"	was	"	"	"	Foreign varieties
1	"	1	"	"	"	"	"	Severe insect injury
-		-						
Total	5	6						

NEW BRUNSWICK

FIELD INSPECTION OF POTATOES, 1922

Carleton Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>Per cent fields passed</u>			<u>Per cent acres passed</u>	
153	1153	59		356		38.6		30.9	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	1.2	.8	12.7	.07	.9	2.7	2.0	.4	
Average per cent disease in fields passed	.69	.84	.84	.07	.2	3.3	2.5	.4	
Average per cent disease in fields rejected	1.5	.8	20.1	.05	1.4	2.2	1.8	.4	

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Of the 94 fields rejected, 54 containing 459 acres were rejected owing to	Mosaic
21 " 169½ "	" Foreign varieties
4 " 125 "	" Blackleg
4 " 5½ "	" Mosaic & Leaf roll
3 " 5½ "	" Mosaic & Blackleg
2 " 14 "	" Lack of vigour
2 " 17½ "	" Insect Injury
2 " 1½ "	" Blackleg & Leafroll
2 " 3½ "	" Leaf Roll
<hr/>	
Total	94 797

NEW BRUNSWICK

FIELD INSPECTION OF POTATOES, 1922

Gloucester Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>				<u>Per cent fields passed</u>		<u>Per cent acres passed</u>	
77	225½	22			90	28.6		39.9	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	3.1	.3	10.3	.03	.3	1.9	2.0	0.0	
Average per cent disease in fields passed	.37	.18	1.2	.1	0.0	0.0	1.6	0.0	
Average per cent disease in fields rejected	4.3	.35	13.9	0.0	.4	2.7	2.4	0.0	

Of the 55 fields rejected, 28 containing 65½ acres were rejected owing to Mosaic

12	"	28	"	"	"	"	"	"	Mosaic & Blackleg
10	"	33	"	"	"	"	"	"	Foreign varieties
3	"	5½	"	"	"	"	"	"	Blackleg
2	"	3½	"	"	"	"	"	"	Blackleg & Leaf Roll

Total 55 135½

NEW BRUNSWICK

FIELD INSPECTION OF POTATOES, 1922

Kent Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>				<u>Per cent fields passed</u>		<u>Per cent acres passed</u>	
29	58½	7		14		24.1		24.0	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	1.03	.09	9.8	0.0	.9	0.0	.7	0.0	
Average per cent disease in fields passed									
	.93	.04	3.07	0.0	0.0	0.0	0.0	0.0	
Average per cent disease in fields rejected									
	1.06	.1	11.9	0.0	1.1	0.0	.9	0.0	

Of the 22 fields rejected, 14 containing 33½ acres were rejected owing to Mosaic

1	"	1	"	was	"	"	"	Mosaic &
7	"	10	"	were	"	"	"	Blackleg
								Foreign varieties

Total	22	44½
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NEW BRUNSWICK

FIELD INSPECTION OF POTATOES, 1922

Madawaska Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>		<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
33	143	3		20		9.1		14.0
Average per cent disease in total fields inspected	B.L. 1.3	L.R. .48	Mos. 15.03	Wilts .18	E.B. 0.0	L.B. 2.9	Rhiz. 2.1	T.B. 0.0
Average per cent disease in fields passed	.3	.58	2.08	0.0	0.0	6.6	6.6	0.0
Average per cent disease in fields rejected	1.4	.47	16.3	.2	0.0	2.5	1.7	0.0

Of the 30 fields rejected, 23 containing 103½ acres were rejected owing to

1	"	1½	"	was	"	"	"	"	Mosaic
1	"	3	"	"	"	"	"	"	Blackleg
1	"	3	"	"	"	"	"	"	Mosaic & Blackleg
1	"	4	"	"	"	"	"	"	Mosaic & Leaf Roll
3	"	8	"	were	"	"	"	"	Leaf Roll
									Foreign varieties

Total 30 123

NEW BRUNSWICK

FIELD INSPECTION OF POTATOES, 1922

Northumberland Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>Per cent fields passed</u>			<u>Per cent acres passed</u>
28	42	2			1 $\frac{3}{4}$	7.1	4.2	
Average per cent disease in total fields inspected	B.L. .56	L.R. .92	Mos. 20.6	Wilts 0.0	E.B. .18	L.B. 1.9	Rhiz. 0.0	T.B. 0.0
Average per cent disease in fields passed	0.0	.12	2.2	0.0	0.0	0.0	0.0	0.0
Average per cent disease in fields rejected	.61	.98	22.0	0.0	.2	2.1	0.0	0.0

Of the 26 fields rejected, 23 containing 33 $\frac{1}{2}$  acres were rejected owing to mosaic

1	"	1	"	was	"	"	"	Leaf roll
2	"	6	"	were	"	"	"	Foreign varieties

Total	26	40 $\frac{1}{2}$
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NEW BRUNSWICK

FIELD INSPECTION OF POTATOES, 1922

Queen's Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>			<u>Per cent fields passed</u>	<u>Per cent acres passed</u>
22	34 $\frac{1}{2}$	11			15 $\frac{1}{4}$			50	44.5
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	.25	.23	8.9	0.0	2.9	0.0	.5	0.0	
Average per cent disease in fields passed	.05	.24	1.35	0.0	5.0	0.0	.9	0.0	
Average per cent disease in fields rejected	.47	.23	16.5	0.0	.9	0.0	0.0	0.0	

Of the 11 fields rejected, 6 containing 14 $\frac{1}{2}$  acres were rejected owing to Mosaic

5 " 4 $\frac{1}{2}$  " " " " " " Foreign varieties

Total 12 19

NEW BRUNSWICK

FIELD INSPECTION OF POTATOES, 1922

Restigouche Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>				<u>Per cent fields passed</u>			<u>Per cent acres passed</u>
106	520½	85				80.2			35.7
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	1.6	.01	1.8	0.0	.4	.52	2.6	0.0	
Average per cent disease in fields passed	1.1	.015	.64	0.0	.01	.59	3.4	0.0	
Average per cent disease in fields rejected	3.7	0.0	6.7	0.0	1.7	.23	4.3	0.0	

Of the 21 fields rejected, 8 containing 46 acres were rejected owing to Mosaic

7	"	15½	"	"	"	"	"	"	Mosaic & Blackleg
6	"	13	"	"	"	"	"	"	Foreign varieties

Total 21 74½

NEW BRUNSWICK

FIELD INSPECTION OF POTATOES, 1922.

Sunbury Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>		<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
45	99½	26		50½		57.8		50.8
Average per cent in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	M.B.
	.26	.3	6.4	0.0	1.8	.2	.1	0.0
Average per cent disease in fields passed	.24	.2	.33	0.0	.38	0.0	0.0	0.0
Average per cent disease in fields rejected	.29	.44	14.6	0.0	3.7	.53	.26	0.0

Of the 19 fields rejected, 17 containing 44½ acres were rejected owing to Mosaic

2 " 4½ " " " " " " Foreign varieties

Total 19 49

NEW BRUNSWICK

FIELD INSPECTION OF POTATOES, 1922

Victoria Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>		<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
33	210½	6		65½		18.2		31.1
Average per cent disease in total fields inspected	B.L. 1.4	L.R. .73	Mos. 17.2	Wilts .07	E.B. .3	L.B. 2.9	Rhiz. 3.5	T.B. .3
Average per cent disease in fields passed	.5	.75	1.25	0.0	1.4	.08	5.8	0.0
Average per cent disease in fields rejected	1.6	.73	20.8	.09	0.0	3.3	2.9	.4

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Of the 28 fields rejected, 18 containing 92½ acres were rejected owing to Mosaic

1	"	4	"	was	"	"	"	Blackleg
1	"	1¾	"	"	"	"	"	Mosaic & Leaf Roll
8	"	47	"	were	"	"	"	Foreign varieties
Total		28		145				

NEW BRUNSWICK

FIELD INSPECTION OF POTATOES, 1922

Westmorland Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
120	242	60			130 $\frac{3}{4}$	50		54	
Average per cent disease in total fields inspected	B.L. .77	L.R. .09	Mos. 9.0	Wilts .02	E.B. 5.4	L.B. 2.8	Rhiz. 1.7	T.B. 0.0	
Average per cent disease in fields passed	.54	.38	1.3	.04	8.1	4.4	2.2	0.0	
Average per cent disease in fields rejected	1.1	.61	16.7	0.0	2.8	1.25	1.3	0.0	

Of the 60 fields rejected, 40 containing 74 $\frac{3}{4}$  acres were rejected owing to mosaic

2	"	2 $\frac{3}{4}$	"	"	"	"	"	" Blackleg
1	"	1 $\frac{1}{2}$	"	was	"	"	"	" Blackleg & Leaf Roll
17	"	32 $\frac{3}{4}$	"	were	"	"	"	" Foreign varieties

Total 60 111 $\frac{1}{2}$

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NEW BRUNSWICK

FIELD INSPECTION OF POTATOES, 1922

York Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
102	342	17			43½		16.6		12.6
Average per cent disease in total fields inspected	B.L. 1.1	L.R. .66	Mos. 12.7	Wilts .01	E.B. 1.5	L.B. 0.0	Rhiz. .15	T.B. 0.0	
Average per cent disease in fields passed	.17	.44	2.0	0.0	.9	0.0	.6	0.0	
Average per cent disease in fields rejected	1.3	.7	14.9	.02	1.6	0.0	.06	0.0	

Of the 85 fields rejected, 71 containing 259½ acres were rejected owing to Mosaic

2	"	4	"	"	"	"	"	"	Blackleg
7	"	11½	"	"	"	"	"	"	Foreign varieties
4	"	20	"	"	"	"	"	"	Mosaic & Blackleg
1	"	4	"	was	"	"	"	"	Lack of vigour

Total 85 298½

## NOVA SCOTIA

The following tables of disease prevalence are summarized for the province as well as by counties. The Garnet Chili variety is separated from other varieties because the growing of this variety is for one market, that of Bermuda.

## NOVA SCOTIA

## Garnet Chili

FIELD INSPECTION OF POTATOES, 1922Summary

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>		<u>Per cent fields passed</u>	<u>Per cent acres passed</u>
125	235 $\frac{3}{4}$	81			156 $\frac{1}{2}$	64.8	66.4	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.
.54		3.69	.14	0.0	0.0	.87	0.0	0.0
Average per cent disease in fields passed								
.14		.93	.05	0.0	0.0	1.0	0.0	0.0
Average per cent disease in fields rejected								
2.0		6.5	.12	0.0	0.0	.7	0.0	0.0

NOVA SCOTIA

FIELD INSPECTION OF POTATOES, 1922

Garnet Chili

Colchester Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>				<u>Per cent fields passed</u>		<u>Per cent acres passed</u>	
73	143	55			112	75.3		78.3	
Average per cent disease in total fields inspected	B.L. .17	L.R. 2.7	Mos. .04	Wilts 0.0	E.B. 0.0	L.B. .7	Rhiz. 0.0	T.B. 0.0	
Average per cent disease in fields passed	.2	.7	.05	0.0	0.0	.8	0.0	0.0	
Average per cent disease in fields rejected	.7	8.9	.02	0.0	0.0	.3	0.0	0.0	

Of the 18 fields rejected, 10 containing 19 acres were rejected owing to Leaf Roll.

6	"	9	"	"	"	"	"	" Foreign varieties
2	"	3	"	"	"	"	"	" Lack of vigour

Total	18	31
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## NOVA SCOTIA

Garnet Chili

FIELD INSPECTION OF POTATOES, 1922Hants Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>	<u>No. acres passed</u>	<u>Per cent fields passed</u>		<u>Per cent acres passed</u>		
9	11½	9	11½	100		100		
Average per cent disease in fields inspected and passed	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.
	0.0	.34	.07	0.0	0.0	1.1	0.0	0.0

King's Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>	<u>No. acres passed</u>	<u>Per cent fields passed</u>		<u>Per cent acres passed</u>		
39	79	14	30	35.9		37.9		
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.
	.3	10.9	.24	0.0	0.0	1.7	0.0	0.0
Average per cent disease in fields passed								
	.25	1.7	0.0	0.0	0.0	2.1	0.0	0.0
Average per cent disease in fields rejected								
	.33	16.2	.37	0.0	0.0	1.4	0.0	0.0

Of the 25 fields containing 49 acres rejected, all were rejected owing to Leaf Roll

## NOVA SCOTIA

FIELD INSPECTION OF POTATOES, 1922

Garnet Chili

Pictou Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>			<u>Per cent fields passed</u>	<u>Per cent acres passed</u>
4	2 $\frac{1}{4}$	3			1 $\frac{3}{4}$			75.0	66.7
Average per cent disease in total fields inspected	B.L. 1.7	L.R. .8	Mos. .075	Wilts 0.0	E.B. 0.0	L.B. 0.0	Rhiz. 0.0	T.B. 0.0	
Average per cent disease in fields passed	.1	1.0	.1	0.0	0.0	0.0	0.0	0.0	
Average per cent disease in fields rejected	6.6	.3	0.0	0.0	0.0	0.0	0.0	0.0	

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The field rejected, was rejected owing to Blackleg

## NOVA SCOTIA

FIELD INSPECTION OF POTATOES, 1922

Varieties other  
than Garnet Chili

Summary

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>Per cent fields passed</u>			<u>Per cent acres passed</u>
87	135 $\frac{1}{2}$	61			87 $\frac{3}{4}$	70.1	64.8	
Average per cent disease in total fields inspected	B.L. 4.2	L.R. .22	Mos. 4.0	Wilts .008	E.B. .075	L.B. .5	Rhiz. 2.4	T.B. 0.0
Average per cent disease in fields passed	.03	.03	1.4	.01	.02	.46	1.2	0.0
Average per cent disease in fields rejected	4.1	.37	7.2	0.0	.13	.41	2.1	0.0

## NOVA SCOTIA

FIELD INSPECTION OF POTATOES, 1922

Varieties other  
than Garnet Chili

Annapolis Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>		<u>Per cent fields passed</u>	<u>Per cent acres passed</u>
6	4½	4			3½	66.7	72.2	
Average per cent disease in total fields inspected	B.L. 0.0	L.R. 1.1	Mos. 2.9	Wilts 0.0	E.B. 0.0	L.B. 0.0	Rhiz. .8	T.B. 0.0
Average per cent disease in fields passed	0.0	.07	1.8	0.0	0.0	0.0	0.0	0.0
Average per cent disease in fields rejected	0.0	0.0	8.2	0.0	0.0	0.0	2.5	0.0

The 2 fields containing 1½ acres, were rejected owing to Mosaic

NOVA SCOTIA

FIELD INSPECTION OF POTATOES, 1922

Antigonish Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>			<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
1	1	0	0	0	0	0	0	0	0	
Average per cent disease in field inspected and rejected		B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiza	T.B.	
		50.0	0.0	.3	0.0	0.0	0.0	0.0	0.0	

The field was rejected owing to Blackleg

Cape Breton Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>			<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
2	2	2	2	2	2	2	100	100	100	
Average per cent disease in fields inspected and passed		B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiza	T.B.	
		0.0	0.0	2.3	0.0	0.0	0.0	5.0	0.0	

NOVA SCOTIA

FIELD INSPECTION OF POTATOES, 1922

Colchester Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
10	10½	7			6		70		57.1
Average per cent in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	.03	1.3	5.4	.1	0.0	3.0	2.2	0.0	
Average per cent disease in fields passed	.04	.14	.47	.14	0.0	3.5	2.5	0.0	
Average per cent disease in fields rejected	0.0	4.1	17.0	0.0	0.0	1.6	1.6	0.0	

Of the 3 fields rejected, 2 containing 1½ acres were rejected owing to Leaf Roll

1 " 3 " was " " " Mosaic

## NOVA SCOTIA

FIELD INSPECTION OF POTATOES, 1922Cumberland Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
3	4 $\frac{1}{2}$	2			2 $\frac{1}{2}$	66.7		55.5	
Average per cent disease in total fields inspected	B.L. 0.0	L.R. .1	Mos. 3.0	Wilts 0.0	E.B. 0.0	L.B. 0.0	Rhiz. 5.8	T.B. 0.0	
Average per cent disease in fields passed	0.0	0.0	1.5	0.0	0.0	0.0	6.2	0.0	
Average per cent disease in fields rejected	0.0	.3	6.0	0.0	0.0	0.0	5.0	0.0	

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The field rejected, containing 2 acres, was rejected owing to Mosaic.

NOVA SCOTIA

FIELD INSPECTION OF POTATOES, 1922

Digby Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>Per cent fields passed</u>			<u>Per cent acres passed</u>	
1	1½	0			0			0	
Average per cent disease in field inspected and rejected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	0.0	0.0	7.0	0.0	0.0	0.0	10.0	0.0	

The field was rejected owing to Mosaic

Hants Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>Per cent fields passed</u>			<u>Per cent acres passed</u>	
12	20	9			75.			60.	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	0.0	0.0	2.05	0.0	0.0	0.0	.8	0.0	
Average per cent disease in fields passed	0.0	0.0	2.07	0.0	0.0	0.0	1.1	0.0	
Average per cent disease in fields rejected	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	

Of the 3 fields rejected, 1 containing 6 acres was rejected owing to Mosaic  
 2 " 2 " were " " " Lack of vigour

## NOVA SCOTIA

FIELD INSPECTION OF POTATOES, 1922Inverness Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
1	1	1	1	1	1	100	100	100	
Average per cent disease in field inspected and passed	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	

King's Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
23	46 $\frac{1}{2}$	21	43	91.3	88.7				
Average per cent disease in total fields inspected	B.L.	L.R.	Mos.	Wilts	E.B.	L.B.	Rhiz.	T.B.	
	0.0	.04	2.5	0.0	.2	0.0	1.8	0.0	
Average per cent disease in fields passed	0.0	.04	2.1	0.0	.2	0.0	1.7	0.0	
Average per cent disease in fields rejected	0.0	0.0	6.5	0.0	0.0	0.0	2.5	0.0	

Of the two fields containing 5 $\frac{1}{2}$  acres, both were rejected owing to Mosaic

## NOVA SCOTIA

FIELD INSPECTION OF POTATOES, 1922Pictou Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>		<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
20	31½	11		13½		55		42.4
Average per cent disease in total fields inspected	B.L. .15	L.R. 0.0	Mos. 12.6	Wilts 0.0	E.B. 0.0	L.B. .6	Rhiz. 1.3	T.B. 0.0
Average per cent disease in fields passed	.3	0.0	1.9	0.0	0.0	1.1	1.4	0.0
Average per cent disease in fields rejected	0.0	0.0	25.6	0.0	0.0	0.0	1.7	0.0

Of 9 fields containing 18 acres, all were rejected owing to Mosaic

Victoria Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>		<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>	
1	1	0		0		0		0	
Average per cent disease in field inspected and rejected		B.L. 0.0	L.R. 0.0	Mos. 2.6	Wilts 0.0	E.B. 0.0	L.B. 0.0	Rhiz. 0.0	T.B. 0.0

This field was rejected owing to severe insect injury.

## NOVA SCOTIA

FIELD INSPECTION OF POTATOES, 1922Yarmouth Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>	<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>	
7	9 $\frac{3}{4}$	4	4 $\frac{3}{4}$		57.1		48.7	
Average per cent disease in total fields inspected	B.L.	L.R.	Mos:	Wilts	E.B.	L.B.	Rhiz.	T.B.
	0.0	.09	3.8	0.0	.7	2.1	1.4	0.0
Average per cent disease in fields passed	0.0	.15	1.2	0.0	0.0	1.2	1.2	0.0
Average per cent disease in fields rejected	0.0	0.0	7.1	0.0	1.6	3.3	1.6	0.0

The 3 fields rejected, containing 3 acres, were rejected owing to Mosaic

PRINCE EDWARD ISLAND-

LATE BLIGHT, caused by  
Phytophthora infestans (Mont.) deBary

The seasonal conditions for 1922 were very favourable for the development of blight, and the disease was severe and general throughout the province. Usually all varieties were badly affected with the exception of Irish Cobblers. Although moist conditions made the complete control of the disease difficult, thorough spraying, particularly with high pressure outfits, fairly well held the disease in check.

The following tables give results of disease prevalence in a summary for the province and by counties, as well as the causes which prevent certain fields coming up to standard for certification:-

PRINCE EDWARD ISLAND

FIELD INSPECTION OF POTATOES, 1922

Summary

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>				<u>No. acres passed</u>		<u>Per cent fields passed</u>	<u>Per cent acres passed</u>
621	2367	553			2155		89.0	90.6	
Average per cent disease in total fields inspected	B.L. 2.3	L.R. .39	Mos. 6.0	Wilts .21	E.B. .12	L.B. .09	Rhiz. .01	T.B. 0.0	
Average per cent disease in fields passed	1.8	.36	2.0	.21	.12	.04	.01	0.0	
Average per cent disease in fields rejected	4.7	.54	29.4	.33	.23	.33	0.0	0.0	

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PRINCE EDWARD ISLAND

FIELD INSPECTION OF POTATOES, 1922

King's Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>		<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
154	416	131		346		85.0		85.2
Average per cent disease in total fields inspected	B.L. 2.1	L.R. .4	Mos. 8.9	Wilts .2	E.B. 0.0	L.B. 0.0	Rhiz. 0.0	T.B. 0.0
Average per cent disease in fields passed	1.8	.38	2.9	.15	0.0	0.0	0.0	0.0
Average per cent disease in fields rejected	4.1	.51	42.7	.65	0.0	0.0	0.0	0.0

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Of the 23 fields rejected, 16 containing 58 acres were rejected owing to

2	"	3	"	"	"	"	"	"	Mosaic
1	"	4	"	was	"	"	"	"	Mosaic &
2	"	2	"	were	"	"	"	"	Blackleg
2	"	3	"	"	"	"	"	"	Blackleg
									Foreign
									varieties
									Lack of
									vigour

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Total	23	70
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PRINCE EDWARD ISLAND

FIELD INSPECTION OF POTATOES, 1922

Queen's Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>			<u>Per cent fields passed</u>	<u>Per cent acres passed</u>
102	423	80			362		78.4	85.6	
Average per cent disease in total fields inspected	B.L. 2.5	L.R. .46	Mos. 6.4	Wilts .27	E.B. 0.0	L.B. .14	Rhiz. 0.0	T.B. 0.0	
Average per cent disease in fields passed	1.7	.45	1.6	.34	0.0	0.0	0.0	0.0	
Average per cent disease in fields rejected	5.1	.5	23.8	.04	0.0	1.0	0.0	0.0	

1922

Of the 22 fields rejected, 10 containing 32 acres were rejected owing to

2	"	5	"	"	"	"	"	"	Mosaic
1	"	5	"	was	"	"	"	"	Blackleg
									Mosaic & Leaf Roll
1	"	2	"	"	"	"	"	"	Mosaic & Blackleg
7	"	13½	"	were	"	"	"	"	Foreign varieties
1	"	3½	"	was	"	"	"	"	Lack of vigour

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Total	22	61
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PRINCE EDWARD ISLAND

FIELD INSPECTION OF POTATOES, 1922

Prince Co.

<u>No. fields inspected</u>	<u>No. acres inspected</u>	<u>No. fields passed</u>			<u>No. acres passed</u>		<u>Per cent fields passed</u>		<u>Per cent acres passed</u>
365	1528	342			1447	93.7		94.7	
Average per cent disease in total fields inspected	B.L. 2.2	L.R. .3	Mos. 2.6	Wilts. .16	E.B. .37	L.B. .12	Rhiz. .04	T.B. 0.0	
Average per cent disease in fields passed	2.0	.26	1.6	.14	.35	.13	.04	0.0	
Average per cent disease in fields rejected	5.0	.6	20.6	.3	.7	0.0	0.0	0.0	

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Of the 23 fields rejected, 9 containing 37 acres were rejected owing to

2	"	15	"	"	"	"	"	"	Mosaic
1	"	3	"	was	"	"	"	"	Mosaic & Blackleg
2	"	8	"	were	"	"	"	"	Leaf Roll & Blackleg
4	"	6	"	"	"	"	"	"	Blackleg
4	"	11	"	"	"	"	"	"	Foreign varieties
1	"	1	"	was	"	"	"	"	Lack of vigour
									Lack of cultivation

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Total                    23                    81

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