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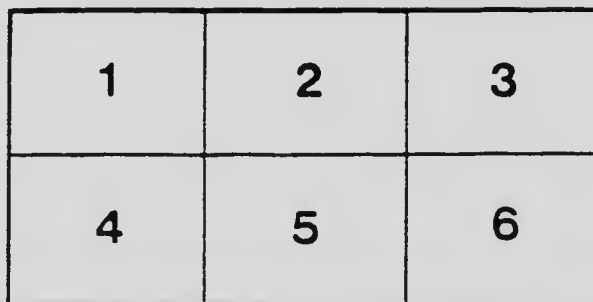
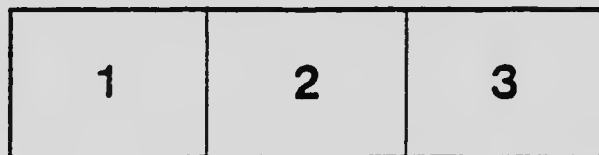
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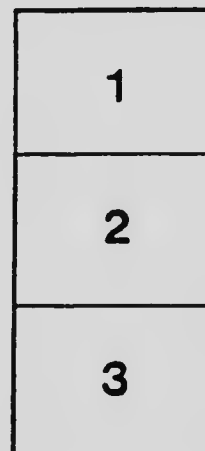
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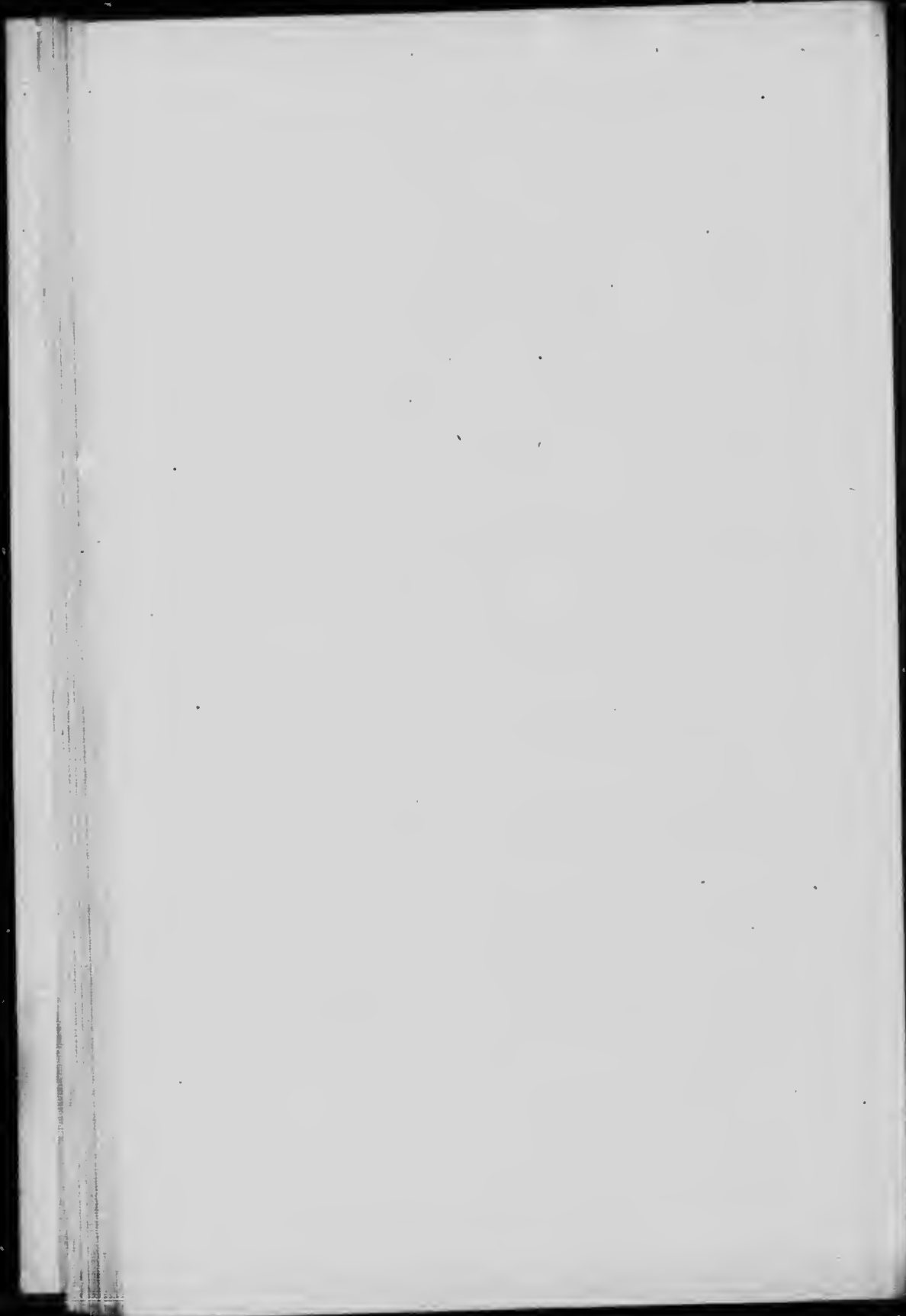
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LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA

BULLETIN No. 329

POT AND PEARL BARLEY

NOTES AND COMMENTS.

Under this heading, as occasion arises, the Bulletins issued by this Department will contain, as an appendix, such comment as may seem necessary or advisable upon matters relating to the work of the Department in connection with the administration of the Adulteration Act, the Fertilizers Act, the Feeding Stuffs Act or the Proprietary Medicines Act.

It frequently happens that correspondents ask information regarding the above Acts, of such a nature that the matter in question possesses general interest, and comment upon it would prove acceptable and useful to others than the immediate questioner. In such cases the reply may find a place in these columns. For convenience of reference these notes will be numbered in series.

LABORATORY
OF THE
INLAND REVENUE DEPARTMENT

BULLETIN No 329

POT AND PEARL BARLEY

J. U. VINCENT, Esq.,
Deputy Minister of Inland Revenue,

OTTAWA, January 6, 1916.

SIR,—

I beg to hand you a report of work done upon one hundred and ninety one samples, purchased as Pot Barley (*Orge Mondé*) or as Pearl Barley (*Orge Perlé*) throughout Canada in May, June and July of 1915.

One hundred and eight of these samples are sold as Pot Barley and eighty three as Pearl Barley.

From the *Encyclopædia Britannica*, Eleventh Edition, under article "Barley", I find the following

"Barley is now chiefly cultivated for Malting, to prepare spirits and beer, but it is also largely employed in domestic cookery. For the latter purpose, the hard somewhat flinty grains are preferable, and they are prepared by grinding off the outer cuticle, which forms "pot barley". When the attrition is carried further, so that the grain is reduced to small round pellets, it is termed "pearl barley."

Webster's Dictionary (1911) defines Pot Barley as *Hulled Barley*; and Pearl Barley, as "Kernels of barley, ground to the form of small round grains, used in soups, etc."

Church (Foods, etc.) states that 100 pounds of barley yields about 37 pounds of pearl barley.

Wiley (Foods, etc., p. 217) quotes the weight of 100 Kernels of unhulled barley as 4.83 grammes, equivalent to an average of 20.7 Kernels per gramme.

J. A. Dawson has determined the number of Kernels per gramme for thirteen (13) samples of pot barley and for eight (8) samples of pearl barley. This number varies from 27 to 47, average 39 for pot barley, and from 121 to 140, average 136 for pearl

barley. Calculating from these figures, the loss in weight of the Kernel in production of pot barley, is 46 per cent; in production of pearl barley is 84.6 per cent. This is a much greater loss of weight than is indicated by Church's figures (63 per cent).

Nineteen (19) samples, which Mr. Dawson regards as mixtures of pot and pearl barley, vary from 42 to 138 Kernols per gramme, averaging 68 Kernols. Nearly all of these samples are sold as pearl barley; and it is probable that they more truly represent the pearl barley of the market, than the eight specially selected by Mr. Dawson, and above referred to. On this assumption, the loss of weight in manufacture of pearl barley would be 69 per cent of the weight of the Barley Kernel in the raw state.

It appears from the literature of the subject, that it is common practice to use sulphur dioxide to whiten pearl barley, and talc or some similar substance, to give brightness and a pearl-like appearance; moistening with a dilute solution of glucose in order to secure adhesion of the talc is also said to be practised. It has been claimed that these additions are made to prevent the growth of micro-organisms upon the grain; but Pluecker and Flebbe (*Z.-Nahr-Genussm.*, 1914, 28) have demonstrated that this claim has no foundation in fact. The authors conclude that sulphur and talc are employed primarily to bleach the grain, and to secure uniformity of appearance which permits the use of inferior barley in manufacture.

Liverseege and Hawley (*Journal of the Society of Chemical Industry*, 1915, 203) report upon seventy three (73) samples of English pearl barley, and conclude that there appears to be an increase in the use of mineral facing. The insoluble ash found for sixty seven (67) samples is below 0.22 per cent; while six samples show amounts varying between 0.22 and 0.82 per cent. The authors point out that fifty (50) samples contain less than 0.05 per cent insoluble ash, and that only one of these contained more than 1.10 per cent of total ash. They consider that 0.10 per cent of insoluble ash is a very reasonable allowance, and that samples containing a larger proportion than this should be regarded as adulterated with mineral facing. The total ash should not exceed 1.10 per cent. Talc (soapstone) is the mineral substance generally employed in facing of this sort; and being absolutely indigestible and totally devoid of food value, must be regarded as an adulterant, quite possibly harmful to health.

Rice starch is another article employed in the facing of pearl barley. It cannot be regarded as harmful to health, but undoubtedly must be regarded as an adulterant under Section 3, h, of the Act, being used "to conceal damage, or to make the article appear better or of greater value than it really is." Even the use of barley starch in facing pearl barley must be regarded as adulteration, since the object is mainly to conceal inferiority.

Sixty-four (64) per cent of the samples herein reported as having been sold under the term *Pot Barley*, are found to yield more than 1.10 per cent of total ash; while only twenty-one (21) per cent of those sold as *pearl barley*, yield more than 1.10 per cent of total ash. These figures however, must be interpreted in connection with the above mentioned fact, that many of the samples are doubtfully true to name; in other words, until we are able to distinguish sharply between what is to be regarded as a pot barley, and what as a pearl barley, the commercial nomenclature is too indefinite for purposes of definition.

This report must be regarded mainly as a study of the subject, rather than as furnishing material for departmental action. It may enable us to define Pot Barley and Pearl Barley in such a way as to definitely distinguish these important articles of food; and to establish regulations which shall guide in the interpretation of work done

in the future. With exception of eight (8) samples, which are faced with talc, and must be regarded as adulterated under section 3, h, of the Act, I have not felt justified in passing judgment upon the samples now reported.

I would respectfully recommend its publication as Bulletin No. 320.

I have the honour to be,
Sir,
Your Obedient Servant,

A. MCGILL,
Chief Analyst.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF NOVA SCOTIA—

1915.							
June 18	Barley (Pot)	54031	A. L. Doyle & Co, Halifax.	2 lb..	12	Unknown	J. B. Shaffner & Co., Halifax.
" 25	" " "	54032	Wm. Moore, Halifax.....	2 " ..	12	"	Unknown
" 25	" " "	54033	Corkum & Riteey, Ltd., Halifax.	2 " ..	10	Tilsenburg Mills Co., Tilsenburg.	T. H. Taylor & Co., Chatham, Ont.
" 25	" (Pearl)	54031	Wentzell's Ltd., Halifax..	2 " ..	12	John McKay, Bowmanville.	Pyke Bros., Halifax.
" 25	" " "	54035	John Scott & Co., Halifax.	2 " ..	15	Quaker Oats Co..	Bauld Bros., Halifax.
" 25	" (P. t)	54036	Knoche & Nicolle, Halifax.	2 " ..	12	Unknown	John Tobin & Co., Halifax.
" 28	" (Pearl)	54037	Allison's Ltd., Halifax ..	2 " ..	16	John McKay, Bowmanville.	" "
July 2	" " "	54038	Turnbull & Co., Digby ..	2 " ..	24	Unknown	Baird & Peters, St. John.
" 2	" (Pot)	54039	H. G. Warne, Digby.....	2 " ..	24	"	Unknown
" 13	" (Pearl)	54040	S. Thomson, Dartmouth..	2 " ..	16	"	R. B. Seeton & Co., Halifax.

DISTRICT OF NOVA SCOTIA—

June 3	Barley (Pot)..	65843	James Cavanagh, New Glasgow.	2 lb..	10	Hayme Mill. Co., Bridgeton, Ont.	R. McGregor & Sons, New Glasgow.
" 3	" " "	65844	2 Barkers Ltd., New Glasgow.	2 " ..	10	McLeod Mill. Co., Stratford, Ont.	Unknown
" 3	" (Pearl)	65845	James McArthur, New Glasgow.	2 " ..	16	Unknown	R. B. Seeton, Halifax.
" 3	" (Pot)..	65346	" " "	2 " ..	10	Ogilvie M. Co., Montreal.	.....
" 4	" " "	65847	A. J. Roop, New Glasgow.	2 " ..	12	Unknown	R. McGregor & Sons, New Glasgow.
" 4	" " "	65848	S. M. Lockhart, New Glasgow.	2 " ..	10	"	" "
" 4	" (Pearl)	65849	" " "	2 " ..	16	"	R. B. Seeton, Halifax.
" 4	" (Pot)..	65850	R. M. Sutherland, New Glasgow.	2 " ..	10	"	R. McGregor & Sons, New Glasgow.
" 4	" " "	65851	A. A. McDonald, New Glasgow.	2 " ..	10	"	" "
" 4	" " "	65852	D. J. Murray, New Glasgow.	2 " ..	10	"	R. B. Seeton, Halifax.

BARLEY (POT AND PEARL.)

Inspector's Report, (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.		Facing.		
		Total.	Insoluble.			

R. J. WAUGH, INSPECTOR.

	p. c.	p. c.	p. c.			
.....		0.99	0.06	.....		54031
.....		1.22	0.06	.....		54032
.....		1.23	0.06	.....		54033
.....		1.28	0.24	Rice and talc.	.....	54034 Faced with rice and talc. Adulterated.
.....		0.88	0.06	.....		54035
.....		1.36	0.09	.....		54036
.....		0.80	0.00	.....		54037
.....		0.98	0.00	Rice.	.....	54038 Faced with rice.
.....		1.38	0.07	.....		54039
.....		0.80	0.06	.....	Contains 5% rice grains.	54040

W. A. PETIPAS, TEMPORARY INSPECTOR.

.....	1.46	0.09	.....	.....	65843
.....	1.12	0.07	.....	.....	65844
.....	1.10	0.06	.....	.....	65845
.....	0.82	0.06	.....	.....	65846
.....	1.27	0.06	.....	.....	65847
.....	1.38	0.07	.....	.....	65848
.....	0.78	0.01	.....	.....	65849
.....	1.22	0.11	.....	Contains 3% unmilled barley.	65850
.....	1.26	0.10	.....	.....	65851
.....	1.43	0.09	.....	.....	65852

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cent.	Manufacturer.	Furnisher.

DISTRICT OF PRINCE EDWARD ISLAND—

1915.							
April 30	Barley (Pot)..	60170	John G. Passmore, Charlottetown.	2 lb..	12	.....	J. A. Farquharson, Charlottetown.
May 7	" " ..	60171	E. Toombs, Charlottetown.	2 " ..	12	.....	N. Rattenbury & Co., Charlottetown.
" 7	" (Pearl).	60172	W. W. Walker, Charlottetown.	2 " ..	12	.....	Carvell Bros., Charlottetown.
" 7	" (Pot)..	60173	J. C. Crabbe, St. John..	2 " ..	12	.....	Auld Bros., Charlottetown.
" 8	" " ..	60174	Beer & Goff, Charlottetown.	2 " ..	10	.....	Carvell Bros., Charlottetown.

DISTRICT OF NEW BRUNSWICK—

May 10	Barley (Pot)..	66066	2 Barkers Ltd., St. John.	1 lb..	6	Haynes M. Co., Brigden, Ont.	.....
" 10	" (Pearl).	66067	Walter Gilbert, St. John.	1 " ..	12	.....	R. H. Cole, St. John.
" 17	" (Pot)..	66068	Baird & Peters, St. John	1 " .	4	John McKay, Bowmanville, Ont.	.....
" 18	" " ..	66069	G. E. Barbour Co., Ltd St. John.	1 " ..	5	Can. Cereal Co., Ont.	.....
" 18	" (Pearl).	66070	" " ..	1 " ..	10	.....	S. Hansen & Son, London, Eng.
" 19	" " ..	66071	Puddington, Wetmore & Morrison, St. John.	1 " ..	6	.....	Standard Import Co., Montreal.
" 27	" " ..	66072	B. Beveridge, Andover...	1 " ..	10	.....	John & Scofield, St. John.
June 8	" (Pot)..	66073	W. W. E. Smith, Harvey Station.	1 " ..	7	.....	G. E. Barbour, Ltd., St. John.
" 9	" " ..	66074	H. J. Burton & Co., St. Andrews.	1 " ..	5	.....	H. W. Cole, Ltd., St. John.
" 17	" " ..	66075	Doyle's Ltd., Moncton...	1 " ..	10	.....	Reed Co., Moncton.

DISTRICT OF QUEBEC CITY—

April 20	Orge (Mondé).	56385	Elz. Turcotte, 74 Desfosés, Quebec.	2 lb..	24	W. Brunette Cie..	Mfr
" 20	" " ..	56386	Myrand, Pouliot, Quebec.	2 " ..	30	" ..	"
" 20	" " ..	56387	Chs. Riverin, 55 Couronne, Quebec.	2 " ..	30	Jos. Villeneuve, Charlesbourg.	"
" 22	" " ..	56388	Arthur Drolet, 714 St. Valier, Quebec.	2 " ..	25	Simmers, Toronto.	"
" 22	" " ..	56389	Art. Bedard, 728 St. Valier, Quebec.	2 " ..	20	Jos. Contière, Lormière,	"
" 23	" " ..	56390	L. D. Marier, 174 Dor- chester, Quebec.	2 " ..	24	Unknown	Unknown

BARLEY (POT AND PEARL.)

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.		Facing.		
		Total.	Insoluble.			

W. M. WEEKS, INSPECTOR.

	p. c.	p. c.	p. c.			
.....		1.32	0.08	.....		60170
.....		1.43	0.11	.....		60171
.....		0.96	0.07	.....		60172
.....		1.41	0.06	.....		60173
.....		1.35	0.09	.....		60174

J. C. FERGUSON, INSPECTOR.

	p. c.	p. c.	p. c.			
.....		1.18	0.07	.....		66066
.....		0.86	0.04	.....		66067
.....		1.20	0.05	.....		66068
.....		1.18	0.05	.....		66069
.....		0.94	0.05	.....		66070
.....		1.16	0.07	Rice.	.....	66071 Faced with rice.
.....		0.92	0.05	.....		66072
.....		1.34	0.07	.....		66073
.....		1.36	0.06	.....		66074
.....		1.19	0.10	.....		66075

E. N. W. E. BELAND, INSPECTOR.

	p. c.	p. c.	p. c.			
.....		2.10	0.06	.....		56385
.....		2.04	0.06	.....		56386
.....		1.81	0.10	.....		56387
.....		1.67	0.05	.....		56388
.....		2.01	0.05	.....		56389
.....		2.29	0.08	.....		56390

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF QUEBEC CITY—

1915.							
April 26	Orge (Perl�)	56391	Jos. A. Grenier, 94 St. Jean, Quebec.	2 lb..	16	Dunlop Bros., Glasgow.	Mfr.
" 27	" (Mond�)	56392	E. Robitaille, 48 Victoria, Quebec.	2 " ..	20	W. Brunette Cie..	"
" 27	" " ..	56393	L. Pepin, 142 Massue, Quebec.	2 " ..	20	Unknown	Unknown
" 28	" " ..	56394	Jos. Boiteau, 27 Sutherland, Quebec.	2 " ..	20	"	"

DISTRICT OF QUEBEC PROVINCE—

April 28	Barley (Pearl).	276	Charlemagne Taillon, St. Jerome.	2 lb..	10	Ogilvie's, F. M.
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DISTRICT OF THREE RIVERS—

May 5	Orge (Perl�)	67978	A. L. Boucher, Joliette..	2 lb..	25	Lyman Knox, Montreal.
" 5	" " ..	67979	J. O. Daviault, Berthier-ville.	2 " ..	12	.....	Laporte, Martin, Montreal.
" 7	" " ..	67980	O. Paquette, Berthierville.	2 " ..	12	.....	Hudon, Hebert, Montreal.
" 7	" " ..	67981	A. L. Caisse, Berthierville.	2 " ..	12	.....	" "
" 15	" " ..	67982	J. A. Jubinville, Joliette.	2 " ..	12	.....	Jos. Desfranes, Joliette.
" 15	" " ..	67983	C. Barrette, Joliette	2 " ..	10	.....	" "
" 15	" " ..	67984	William Perrault	2 " ..	12	.....	Chevalier & Magnan, Joliette.
" 19	" " ..	60995	Arcade Brault, Ste. M�lanie.	2 " ..	12	.....	" "
" 31	" " ..	69110	O. Carignan Fils, Three Rivers.	2 " ..	16	.....	Chaput Fils, Montreal.
June 1	" " ..	69112	J. A. Boisvert, Joliette..	2 " ..	12	.....	Chevalier & Pouliot, Joliette.

EARLEY (POT AND PEARL)

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.		Facing.		
		Total.	Insoluble.			

Concluded.

	p. c.	p. c.	p. c.			
		0.86	0.04			56391
		2.16	0.08			56392
		1.94	0.14			56393
		2.44	0.23			56394 Faced with talc. Adulterated.

N. CADIEUX, TEMPORARY INSPECTOR.

						276
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DR. V. P. LAVALLE, INSPECTOR.

Knox,		0.92	0.03			67978
al. Martin,		0.92	0.04			67979
al. Hebert,		1.17	0.07			67980
al. "						67981
Fresnes,		1.27	0.07			67982
"		1.09	0.06			67983
& Mag-		1.10	0.06			67984
hette.		0.82	0.04			69096
"		1.01	0.25	Talc.		69110 Faced with talc. Adulterated.
"		1.18	0.07			69112

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF MONTREAL—

1915.							
April 30	Barley (Pearl).	67181	J. A. Labelle, 1927 Masson St., Rosemount.	2 lb.	16	.....	Unknown
" 30	" "	67182	Jos. Mathieu, 373 Fifth Ave., Rosemount.	2 "	11	.....	" .....
" 30	" "	67183	Martin & Fils, 1718 Masson St., Rosemount.	2 "	15	.....	Hudon, Hebert..
" 30	" "	67184	N. Trudeau, 248 Dandurand St., Rosemount.	2 "	14	.....	Unknown
" 30	" (Pot)..	67185	J. E. Normandeau, 2252 Rosemount Boulevard.	2 "	15	.....	Hudon & Orsali.
" 30	" " ..	67186	A. Petit, 2424 Rosemount Boulevard.	2 "	10	.....	Hudon, Hebert..
" 30	" (Pearl).	67187	H. Pepin, Cor. Dandura and 9th Ave., Rosemount.	2 "	14	.....	Unknown
" 30	" (Pot)..	67188	Mount Royal Grocery, 1296 Mt. Royal Ave., Montreal.	2 "	10	.....	P. Adelstein....
" 30	" " ..	67189	M. Desrosiers, 1340 Mesurier St., Montreal.	2 "	12	.....	Couvrette & Sauviol.
" 30	" " ..	67190	W. Hawthorne, 1155 Mt. Royal Ave. E., Montreal.	2 "	12	.....	Unknown

DISTRICT OF EASTERN TOWNSHIPS—

May 11	Barley (Pot)..	58156	Herbert Fortier, Sherbrooke.	2 lb.	10	.....	.....
" 11	" " ..	58157	Bernard & Cie, Sherbrooke.	2 "	10	.....	.....
" 11	" " ..	58158	Theriault & Leclerc, Sherbrooke.	2 "	10	.....	.....
" 11	" " ..	58159	H. Lacroix, Sherbrooke..	2 "	10	.....	.....
" 11	" (Pearl).	58160	Geo. F. Moore, Sherbrooke.	2 "	10	.....	.....
" 11	" " ..	58161	J. Audet, Coaticook.....	2 "	10	.....	.....
" 12	" " ..	58162	Woodman & McKee, Coaticook.	2 "	14	.....	.....
" 12	" (Pot)..	58163	J. Durand, Coaticook....	2 "	10	.....	.....
" 12	" (Pearl).	58164	Farley & Burroughs, Coaticook.	2 "	10	.....	.....
" 12	" (Pot)..	58165	Gerin & Boulay, Coaticook.	2 "	10	.....	.....

BARLEY (POT AND PEARL)

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				Nc. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.		Facing.		
		Total.	Insoluble.			

D. J. KEARNEY, INSPECTOR.

	p. c.	p. c.	p. c.		
.....		0.80	0.38	.....	67181
.....		0.94	0.04	.....	67182
.....		0.87	0.02	.....	67183
.....		0.86	0.08	.....	67184
.....		1.10	0.05	.....	67185
.....				67186
.....		0.75	0.02	.....	67187
.....		1.34	0.08	.....	67188
.....		0.93	0.05	.....	67189
.....				67190

J. J. COSTIGAN, ACTING INSPECTOR.

.....	1.08	0.04	.....	.....	58156
.....	1.28	0.08	.....	.....	58157
.....	1.11	0.07	.....	.....	58158
.....	1.25	0.07	.....	.....	58159
.....	1.25	0.08	.....	.....	58160
.....	1.23	0.07	.....	.....	58161
.....	0.75	0.02	.....	.....	58162
.....	1.18	0.07	.....	.....	58163
.....	1.10	0.07	.....	.....	58164
.....	1.30	0.07	.....	.....	58165

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VALLEYFIELD—

1915.							
May 19	Barley (Pot)..	58135	George Bougie, Alexandria.	2 lb..	10	.....	.....
" 19	" " ..	58136	F. J. Dever, Alexandria.	2 " ..	10	.....	.....
June 9	" " ..	58137	D. H. Conner, Bedford..	2 " ..	10	.....	.....
" 9	" (Pearl).	58138	Best Bros., Bedford..	2 " ..	15	.....	.....
" 9	" " ..	58139	C. O. Jones, Bedford....	2 " ..	20	.....	.....
" 9	" " ..	57936	A. Nadean, Bedford	2 " ..	14	.....	.....
" 9	" (Pot)..	57937	J. Dagenais, Farnham ...	2 " ..	12	.....	.....
" 9	" " ..	57938	J. E. Baillargeon, Farnham.	2 " ..	8	.....	.....
" 15	" " ..	40870	Tourrangeau & Champagne, Buckingham.	2 " ..	10	.....	.....
" 15	" " ..	40971	Lahaie & Son, Buckingham.	2 " ..	10	.....	.....

DISTRICT OF OTTAWA—

April 20	Barley (Pearl).	63603	A. B. Scott & Co., Smith's Falls.	1 lb..	8	.....	Robertson, Nicolle, Smith's Falls.
" 20	" (Pot).	63607	P. J. Doyle, Perth.	1 " ..	5	.....	Unknown
" 30	" " ..	63643	L. Mallette, Murray St., Ottawa.	2 " ..	10	.....	S. J. Major, Ltd., Ottawa.
May 4	" (Pearl).	63649	J. P. Lapensee, Albert St., Ottawa.	2 " ..	15	.....	Provost & Allard.
" 4	" (Pot)..	63650	A. Stein, Albert St., Ottawa.	2 " ..	10	Unknown	Unknown
" 5	" (Pearl).	63656	Cherry & Craig, 1184 Wellington St., Ottawa.	1 " ..	8	.....	F. J. Castle Co., Ottawa.
" 5	" (Pot)..	63657	H. Richardson, 1087 Wellington St., Ottawa.	2 " ..	14	.....	Unknown

DISTRICT OF KINGSTON—

Apr. 29	Barley (Pot)..	68021	James Crawford, Kingston	1 lb .	5	.....	Geo. Robertson & Son, Kingston.
" 29	" " ..	68022	J. R. B. Gage, Kingston..	1 " ..	5	.....	Andrew McLean, Kingston.
" 29	" " ..	68023	G. D. Valteau, Kingston..	1 " ..	5	.....	Robertson & Nicolle, Kingston.
May 4	" " ..	68024	Q. G. Vermilyea, Belleville	1 " ..	5	.....	J. Sloan & Co., Belleville.

BARLEY (POT AND PEARL.)

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.		Facing.		
		Total.	Insoluble.			

J. J. COSTEAN, ACTING INSPECTOR.

	p. c.	p. c.	p. c.			
.....		1.26	0.08	.....	.....	58135
.....		1.12	0.04	.....	.....	58136
.....		1.24	0.07	.....	.....	58137
.....		1.15	0.05	.....	.....	58138
.....		0.82	0.01	.....	.....	58139
.....		0.97	0.05	.....	.....	57936
.....		1.16	0.06	.....	.....	57937
.....		1.15	0.07	.....	.....	57938
.....		1.33	0.07	.....	.....	40970
.....		1.09	0.04	.....	.....	40971

J. A. RICKEY, INSPECTOR.

.....		0.83	0.05	.....	.....	63603
.....				.....	.....	63607
.....				.....	.....	63643
.....		0.85	0.04	.....	.....	63649
.....		1.18	0.06	.....	.....	63650
.....		0.92	0.04	.....	.....	63656
.....		1.07	0.06	.....	.....	63657

JAMES HOGAN, INSPECTOR.

.....		1.39	0.06	.....	.....	68021
.....		0.90	0.05	.....	.....	68022
.....				.....	.....	68023
.....		1.10	0.06	.....	.....	68024

Date of Collection.	Nature of Sample.	No. Sample.	Name and Address of Vendor	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cost.	Manufacturer.	Furnisher.

DISTRICT OF KINGSTON—

1915.							
May	4	Barley (Pot)..	68025	F. O. Diamond & Son, Belleville.	1 lb..	5	J. Sloan & Co., Belleville
"	4	" "	68026	Ed. A. Kellaway, Belleville.	1 " ..	5	J. E. Wainsley, Belleville.
"	4	" "	68027	H. A. Fairhead, Belleville.	1 " ..	5	White Swan Ltd Toronto.
"	4	" "	68028	M. C. Nicols, Cobourg...	1 " ..	5	Eby Blain, Toronto.
"	4	" "	68029	The Thompson MacDonold, Cobourg.	1 " ..	5	Larkins Ince Co. Pererboro.
"	5	" "	68030	F. H. Brown, Port Hope.	1 " ..	8	MacDonald & Morris Co., Oshawa.

DISTRICT OF TORONTO—

May	11	Barley (Pearl)	67049	S. M. Warriner, Stouffville.	1 lb..	8	Thos. Kinnear & Co., Toronto.
"	11	" (Pot)..	67050	G. W. Resor, Markham..	1 " ..	5	Unknown.
"	12	" (Pearl)	67051	Dobson & Grosby, Uxbridge.	1 " ..	10	"
"	12	" (Pot)..	67052	F. C. Collacutt, Port Perry.	1 " ..	6	"
"	13	" "	67054	J. G. French, Brerton.	1 " ..	5	Eby Blain, Toronto.
"	14	" "	67055	The Georgian Bay Lumber Co., Waubausene.	1 " ..	6	Unknown.....
"	15	" "	67056	J. A. Gill, Midland.	2 " ..	10	"
"	19	" (Pearl)	67057	Chas. Godfrey, 371 Spadina Ave., Toronto.	2 " ..	16	Jos. Prager, Toronto.
"	20	" "	67058	Girvin & Robinson, 1556 Queen St., West, Toronto.	2 " ..	16	Unknown. . . .

DISTRICT OF HAMILTON—

April	26	Barley (Pearl).	66978	Burt Bros., Elora.....	2 lb..	10	Unknown.
"	26	" (Pot)..	66979	Pritchard & Lunn, Fergus	2 " ..	10	Geo. F. Bristol & Co., Hamilton.
"	27	" (Pearl).	66980	W. J. Gilroy, Mount Forest.	2 " ..	10	Unknown.
"	28	" (Pot)..	66981	Stewart & Hucks, Hamastow.	2 " ..	10	McLauchlan & Sons, Owen Sound.
"	29	" "	66982	F. Weiler, Mildmay.	2 " ..	10	Stratford Wholesale Grocery, Stratford.
"	29	" "	66983	M. J. Campbell, Paisley..	2 " ..	10	A. M. Smith & Co., London.

BARLEY (POT AND PEARL).

Inspector's Report. (Is not an expression of opinion).	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.		Facing.		
		Total.	Insoluble.			

Concluded.

	p. c.	p. c.	p. c.		
.....	1.06	0.05	.....	.....	68025
.....	1.04	0.06	.....	.....	68026
.....	1.02	0.07	.....	.....	68027
.....	0.99	0.05	.....	.....	68028
.....	1.04	0.06	.....	.....	68029
.....	1.09	0.07	.....	.....	68030

H. J. DAGER, INSPECTOR,

.....	0.85	0.05	.....	.....	67049
.....	1.18	0.08	.....	.....	67050
.....	0.83	0.05	.....	.....	67051
.....	1.03	0.04	.....	.....	67052
.....	1.13	0.07	.....	.....	67054
.....	1.26	0.08	.....	.....	67055
.....	1.98	0.06	.....	.....	67056
.....	0.71	0.03	.....	.....	67057
.....	0.77	0.03	.....	.....	67058

H. J. DAGER, ACTING INSPECTOR.

.....	1.11	0.06	.....	.....	66978
.....	.....	.....	.....	.....	66979
.....	1.21	0.07	.....	.....	66980
.....	1.04	0.07	.....	.....	66981
.....	1.07	0.06	.....	.....	66982
.....	1.11	0.06	.....	.....	66983

BULLETIN No. 329—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF HAMILTON—

1915.							
April 30	Barley (Pearl)	66984	Liebeck & Heinmiller, Chesley.	2 lbs.	10	.....	Unknown
" 30	" "	66985	D. J. Cunningham, Owen Sound.	2 " "	20	.....	W. T. Harris & Co., Ltd., Owen Sound.
May 4	" "	66986	Austen & Grice, Oakville.	2 " "	20	.....	John Sloane & Co., Toronto.
" 4	" "	66987	Hicks & Bamford, Burlington.	2 " "	14	.....	Macpherson Gillissen & Co., Hamilton.

DISTRICT OF WINDSOR—

April 21	Barley (Pearl)	54776	M. Williams, Seaforth....	1½ lbs.	8	.....	E. Adams & Co., London.
" 21	" (Pot)	54777	H. Sivins, Seaforth.	1½ "	8	.....	T. B. Escott & Co., London.
" 21	" " "	54778	Cardno Bros., Seaforth...	1½ "	8	Archibald M. Co., Woodstock.	.....
" 22	" " "	54780	Sproat & Sproat, Seaforth	1½ "	9	"	.....
" 22	" " "	54783	W. R. Smith, Seaforth...	1½ "	8	Seaforth M. Co., Seaforth.	.....
" 22	" " "	54785	Geo. C. Sawyer, Mitchell.	1½ "	8	.....	Stratford Wholesale Grocers, Stratford.
" 22	" " "	54786	Ed. Kern, Mitchell....	1½ "	8	.....	J. Sloan & Co., Berlin.
" 22	" " "	54787	W. J. Sevoy, Mitchell....	1½ "	8	.....	Unknown
" 23	" " "	54792	Cappa & Nethercott, St. Marys.	1½ "	8	.....	Elliott & Marr, London.

DISTRICT OF MANITOBA—

April 26	Barley (Pearl)	61311	A. S. Coyle, Sargent Ave., Winnipeg.	2 lb.	15	.....	.....
" 26	" (Pot)	61312	B. Arnason, Sargent Ave., Winnipeg.	2 "	15	.....	.....
" 27	" " "	61313	S. Myers, Ellice St., Winnipeg.	2 "	10	.....	.....
" 27	" (Pearl)	61314	E. Feir, Ellice St., Winnipeg.	2 "	20	.....	.....
May 10	" (Pot)	61315	J. A. McDowall, Portage Ave., Winnipeg.	2 "	10	.....	.....
" 10	" " "	61316	John M. McMillan, Portage Ave., Winnipeg.	2 "	15	.....	.....
" 10	" " "	61317	Arney Bros., Portage Ave., Winnipeg.	2 "	15	.....	.....
" 10	" (Pearl)	61318	The Wesley Grocery, 547 Portage Ave., Winnipeg.	2 "	15	.....	.....
" 11	" " "	61319	Rockwood Store, 476 Portage Ave., Winnipeg.	1 "	20	.....	.....
" 11	" " "	61320	H. E. Weldon & Co., Portage Ave., Winnipeg.	2 "	15	.....	.....

BARLEY (POT AND PEARL)

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.		Facing.		
		Total.	Insoluble.			

Concluded.

	p. c.	p. c.	p. c.		
.....		1.06	0.04	.....	66984
.....		1.02	0.03	.....	66985
.....		0.77	0.07	.....	66986
.....		0.64	0.05	.....	66987

JOHN TALBOT, INSPECTOR.

	p. c.	p. c.	p. c.		
.....				54776
.....		1.87	0.07	..... Contains 8% rice grains	54777
.....		1.13	0.05	.....	54778
.....		1.43	0.08	.....	54780
.....				54783
.....		1.00	0.06	.....	54785
.....		1.03	0.06	.....	54786
.....		1.00	0.07	.....	54787
.....		1.01	0.04	.....	54792

A. C. LARIVIÈRE, INSPECTOR.

	p. c.	p. c.	p. c.		
.....		0.79	0.03	.....	61311
.....		0.88	0.05	.....	61312
.....		1.49	0.09	.....	61313
.....		0.90	0.04	.....	61314
.....	10.3	1.48	0.12	.....	61315
.....	10.7	1.14	0.08	.....	61316
.....	10.8	0.92	0.02	.....	61317
.....	10.5	1.04	0.04	.....	61318
.....	10.8	0.58	0.02	.....	61319
.....	10.6	0.90	0.02	.....	61320

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF SASKATCHEWAN—

1915.							
April 26	Barley (Pearl).	66352	N. E. Petch, Swift Current.	2 lbs.	15	.....	Swift Current Grocery.
" 27	" " "	66363	M. Moncrieff, Swift Current.	2 " "	10	.....	" "
" 27	" " "	66354	Bertins, Ltd., Swift Current.	2 " "	20	.....	Codville Co., Moosejaw.
" 28	" (Pot)..	66363	Thomas Bros., Gull Lake.	2 " "	15	.....	Moose Grocery, Moosejaw.
" 28	" " "	66364	J. S. Tweed, Gull Lake..	2 " "	15	.....	Codville Co., Moosejaw.
" 29	" " "	66368	Chevalier & Pollock, Maple Creek.	2 " "	15	.....	Medicine Hat Grocery Co.
" 29	" " "	66369	Cool Bros., Maple Creek.	2 " "	15	.....	Swift Current Grocery Co.
" 29	" " "	66370	Dixon Bros., Maple Creek.	2 " "	15	.....	Medicine Hat Grocery Co.
May 5	" " "	66386	H. T. Baker Co., Lumsden.	2 " "	10	.....	Campbell, Wilson & Strathdee, Regina.
" 5	" " "	66387	Balfour Bros., Lumsden..	2 " "	20	.....	Unknown ..

DISTRICT OF ALBERTA—

April 30	Barley (Pearl).	52130	Hallair & Aldridge, Edmonton.	2 lbs.	20	Campbell, Wilson & Horn, Edmonton.	.....
" 30	" "	52131	Johnstone Walker, Ltd., Edmonton.	2 " "	20	Brackman Ker, Edmonton.	.....
" 30	" (Pot) .	52132	" " "	2 " "	15	" "	.....
May 18	" "	52133	Hudson's Bay Co., Calgary.	2 " "	8	Brackman Ker, Calgary.	.....
" 18	" (Pearl).	52134	" " "	2 " "	16	" "	.....
June 16	" "	52135	Spencer Todd, Ltd, Medicine Hat.	2 " "	20	.....	Med. Hat Grocery.
" 16	" "	52136	Taylor Bros., Medicine Hat.	2 " "	20	.....	" "
" 16	" (Pot)..	52137	" " "	2 " "	16	.....	" "
" 17	" "	52138	Geo. Kerr, Lethbridge...	2 " "	20	Brackman Ker, Calgary.	.....
" 17	" (Pearl).	52139	" " "	2 " "	20	" "	.....

BARLEY (POT AND PEARL).

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.		Facing.		
		Total.	Insoluble.			

L. H. HALL, INSPECTOR.

	p. c.	p. c.	p. c.		
.....		0.88	0.05	.....	66362
.....		0.92	0.05	.....	66363
.....		0.74	0.02	.....	66364
.....		1.04	0.05	.....	66363
.....				66364
.....		1.30	0.06	.....	66368
.....		1.15	0.07	.....	66369
.....		0.92	0.06	.....	66370
.....		0.90	0.06	.....	66386
.....		1.22	0.08	.....	66387

A. W. R. MARKLEY, INSPECTOR.

	p. c.	p. c.	p. c.		
.....	14.85	1.20	0.02	.....	52130
.....	15.31	1.04	0.02	.....	52131
.....	15.28	1.16	0.04	.....	52132
.....	15.13	0.97	0.02	.....	52133
.....	15.14	1.09	0.03	.....	52134
.....	15.57	1.04	0.03	.....	52135
.....	15.06	0.80	0.04	.....	52136
.....	15.03	1.48	0.09	..... Contains pieces of straw	52137
.....	15.00	1.26	0.05	.....	52138
.....	15.06	0.82	0.03	.....	52139

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF ROCKY MOUNTAINS—

1915.							
April 26	Barley (Pearl).	61799	Co-op. Italiana Assn. Trail.	2 lbs.	20	.....	Kelly Douglas & Co., Vanc.
" 26	" (Pot)..	61800	City Grocery, Trail	2 "	20	.....	"
" 26	" (Pearl).	61807	Trail Grocery, Trail	2 "	20	.....	Brackman Ker Co., Victoria.
May 20	" (Pot)..	61814	Ira R. Manning, Cranbrook.	2 "	15	.....	West. Can. F. M., Calgary.
" 20	" (Pearl).	61815	" " "	2 "	20	.....	"
" 20	" " "	61816	J. Manning, Cranbrook	2 "	15	.....	W. H. Malkin & Co., Vanc.
" 20	" (Pot)..	61822	Sure Grocery Co., Cranbrook.	2 "	15	.....	Cranbrook Jobbers, Ltd.
June 10	" (Pearl).	61828	A. Hobson, Revelstoke.	2 "	20	.....	West. Can. F. M., Winnipeg.
" 10	" (Pot)..	61833	G. W. Bell, Revelstoke.	2 "	20	.....	W. H. Malkin Co., Vanc.
" 10	" (Pearl).	61834	L. C. Masson, Revelstoke.	2 "	20	.....	"

DISTRICT OF VANCOUVER—

May 22	Barley (Pearl)	55256	J. Lowenthal, 2243 Main St., Vancouver.	2 lbs.	20	.....	Kelly, Douglas & Co., Vancouver.
" 22	" "	55257	Barker- & Miller, 233 Main St., Vancouver.	3 "	20	.....	"
" 22	" (Pot)	55258	Mt. Pleasant Grocery, 2425 Main St., Vancouv.	2 "	20	.....	Unknown
" 22	" "	55259	W. H. Parsons, 2539 Main St., Vancouver.	2 "	20	.....	"
" 22	" (Pearl)	55260	Efford Bros., 246 Broadway E., Vancouver.	2 "	15	.....	W. N. Malkin Co., Vancouver.
" 22	" "	55261	A. G. Page, 3024 Westminster Rd., Vancouver	2 "	20	.....	Kelly, Douglas & Co., Vancouver.
" 22	" "	55262	Cochrane & Elliott, 657 15th Ave., Vancouver.	2 "	20	.....	Leeson, Diokie, Gross & Co., Vanc.
" 22	" "	55263	G. W. Bennett, 761 Kingsway, Vancouver.	2 "	20	.....	A. Macdonald & Co., Vancouver.
" 23	" (Pot)	55264	T. F. McDowell, 938 Granville St., Vancouver.	2 "	20	.....	Kelly, Douglas & Co., Vancouver
" 26	" "	55265	J. P. Sinclair, 2934 Commercial Drive, Vanc.	2 "	15	.....	Unknown

BARLEY (POT AND PEARL)

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash.		Facing.		
		Total.	Insoluble.			

THOS. PARKER, INSPECTOR.

	p. c.	p. c.	p. c.			
.....	12.96	1.10	0.28	.....	Microscope shown min- eral matter.	61799 Faced with talc. Adul- terated.
.....	13.85	1.25	0.06	.....		61800
.....	14.12	1.20	0.03	.....		61907
.....	14.29	0.75	0.02	.....		61814
.....	13.96	0.88	0.02	.....		61815
.....	13.84	0.77	0.02	.....		61816
.....	13.78	0.93	0.03	.....		61822
.....	13.96	0.84	0.03	.....		61828
.....	13.66	0.80	0.02	.....		61833
.....	13.58	0.80	0.01	.....		61834

E. J. MORGAN, INSPECTOR.

	p. c.	p. c.	p. c.			
.....	13.51	1.03	0.20	.....	Microscope shows min- eral matter.	55256 Faced with talc. Adul- terated.
.....	13.94	1.25	0.35	.....	" " ..	55257 " "
.....	14.60	1.01	9.11	.....		55258
.....	15.07	0.96	0.03	.....		55259
.....	14.36	0.84	0.01	.....		55260
.....	14.31	1.07	0.06	.....		55261
.....	14.51	1.01	0.02	.....		55262
.....	13.60	1.09	0.26	.....	Microscope shows min- eral matter.	55263 Faced with talc. Adul- terated.
.....	14.06	0.86	0.02	.....		55264
.....	13.79	1.48	0.63	.....	Microscope shows min- eral matter.	55265 Faced with talc. Adul- terated.

Date of Collection.	Nature of Sample,	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.	
				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF VICTORIA—

1915.							
May	27	Barley (Pearl)	66713	Windsor Grocery Co., 817 Govt. St., Victoria.	2 lbs	20	Brackman Ker, Victoria.
"	28	" (Pot)	66715	D. H. Ross & Co., 1317 Govt. St., Victoria.	2 "	20	Wilson Bros., Victoria.
"	31	" "	66719	West End Grocery, 1002 Govt. St., Victoria.	2 "	50	R. P. Rithet Co., Victoria.
June	1	" (Pearl)	66720	Copas & Young, 631 Fort St., Victoria.	2 "	20	Brackman Ker, Victoria.
"	8	" "	66721	Acton Bros., 1317 Douglas St., Victoria.	2 "	20	"
"	8	" "	66725	Erskine & Co., 861 Johnson St., Victoria.	2 "	20	"
"	9	" "	66726	H. O. Kirkham Co., 741 Fort St., Victoria.	2 "	15	"
"	9	" "	66731	Henry W. Driver, 856 Yates St., Victoria.	2 "	20	A. McDonald, Vancouver.
"	10	" (Pot)	66733	Fairfield Grocery, 259 Cook St., Victoria.	2 "	20	Brackman Ker, Victoria.
"	10	" (Pearl)	66734	The Cook St. Grocery, 1023 Cook St., Victoria.	2 "	15	R. P. Rithet & Co., Victoria.

BARLEY (POT AND PEARL).

Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
	Moisture.	Ash,		Facing.		
		Total.	Insoluble.			

D. O'SULLIVAN, INSPECTOR.

	p. c.	p. c.	p. c.			
.....	13.56	0.77	0.02	.....	.....	66713
.....	13.73	0.89	0.02	.....	.....	66715
.....	13.70	1.12	0.01	.....	.....	66719
.....	13.39	1.03	0.06	.....	.....	66720
.....	13.75	1.07	0.01	.....	.....	66721
.....	13.85	1.12	0.02	.....	.....	66725
.....	13.68	0.98	0.04	.....	.....	66729
.....	13.33	0.80	0.01	.....	.....	66731
.....	13.78	1.13	0.02	.....	.....	66733
.....	13.66	0.91	0.02	.....	.....	67734

