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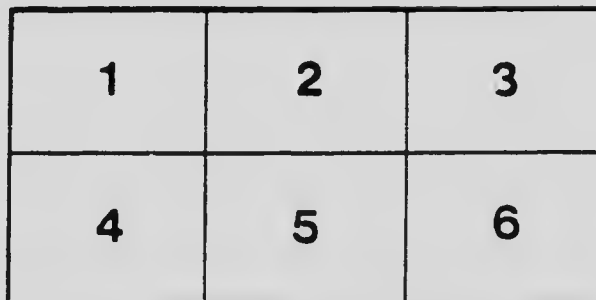
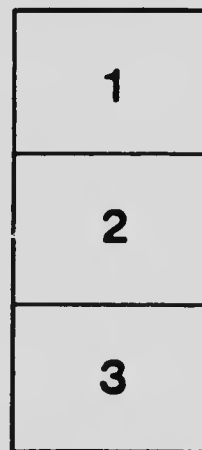
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**LABORATORY**  
**OF THE**  
**INLAND REVENUE DEPARTMENT**

**OTTAWA, CANADA**

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**BULLETIN No. 411**

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**ARSENIC IN BAKING MATERIALS**

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### 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.

A. MCGILL,  
*Chief Analyst.*

**LABORATORY**  
OF THE  
**INLAND REVENUE DEPARTMENT**

**OTTAWA, CANADA**

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**BULLETIN No. 411**

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**ARSENIC IN BAKING MATERIALS**

OTTAWA, July 29th, 1918.

GEO. W. TAYLOR, Esq.,  
Asst. Deputy Minister of Inland Revenue.

SIR,—I beg to hand you a report upon the following classes of food materials, likely to contain phosphate of lime in their composition:

Baking Powders . . . . .	71 samples.
Self-raising Flour . . . . .	30 "
Cream of Tartar Substitutes . . . . .	12 "
So-called Egg Powders, etc. . . . .	39 "
Total . . . . .	<u>152</u> "

In a recent report (1916-17) of the Medical Officer of the Local Government Board, London, England, Dr. A. W. J. MacFadden draws attention to the fact that in some 50 cases, Acid Calcium Phosphate, as used in Cream of Tartar substitutes, was found to contain excessive amounts of Arsenic, reaching 400 parts per million, and in one instance, 643 parts. On investigation it was found that all the firms producing the contaminated article were already aware of its character, and many of them had in their possession stocks of contaminated acid phosphate which had been returned to them, in consequence of the activities of the food inspectors. Instead of destroying this material, or employing it in uses where it could do no harm "it was found to be a common practice of manufacturers to dispose of acid phosphate which had turned out on their own analysis, to be considerably contaminated, by mixing it with another lot of the product which was free from, or only slightly contaminated with arsenic."

Acid calcium phosphate enters into the composition of most baking powders; and is largely employed in self-raising flours, pancake flours, cream of tartar substitutes, and other articles which are used as foods. Since sulphuric acid, which always contains arsenic is employed in its manufacture, it is to be expected that traces of arsenic will be found in acid calcium phosphate; and a tolerance of 5 parts per million

allowed by Order in Council of October, 1912 (G. 1048). The limit for baking powders is fixed at 2 parts per million, and although self-raising flours and egg powders are not specifically mentioned, it is reasonable to interpret this limit number as equally applying to them.

In my last report upon Baking Powders (see Bulletin No. 360, of January, 1917) the Arsenic content was not given, and the present report may be regarded as complementary to Bulletin No. 360.

It is satisfactory to know, as the result of the work now reported, that very few samples of the classes of food materials which are usually made with acid phosphate of lime, have been found to contain more than traces of arsenic. Only 6 samples are reported as yielding more than 1 part per million, and only one (1) sample is found to contain above 5 parts per million. This particular sample (No. 76259) is found to yield 25 parts per million, and must be regarded as adulterated. Its occurrence suffices to show the necessity for occasional inspection of phosphate-containing materials; and it is particularly at a time like the present, when chemical manufacturers are being pushed to the limit, that the use of raw material, not properly purified, may be expected.

I beg to recommend publication of this report as Bulletin No. 411.

I have the honour to be, Sir,  
Your obedient servant,

A. MCGILL,  
*Chief Analyst.*



BULLETIN No. 411—ARSENIC IN BAKING MATERIALS.

Date of Collection	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cont.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis. Arsenic. Parts per Million.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cent.	Manufacturer.	Furnisher.				

DISTRICT OF NOVA SCOTIA—R. J. WAUGH, INSPECTOR.

1918.											
Mar.	1 Self Raising Flour	83342	H. W. Richardson, Windsor, N.S.	3 pkgs	45	F. Dalley Co., Hamilton.	A. & W. Smith, Halifax.	Royal Hygienic	None	83342	
"	1 Baking Powder.	83343	G. N. Vaughan, Windsor, N.S.	3 "	75	Payzant & King, Halifax.	"	Maple Leaf Brand.	Trace.	83343	
"	1 Self Raising Flour.	83344	"	3 "	54	White Swan Ltd., Toronto.	"	"	None.	83344	
"	12 Baking Powder.	83345	Corkun & Ritecy, Halifax.	3 "	30	Coleman B. P. Co., Brockville.	"	Coleman's Special	0-1	83345	
"	12 Egg Substitute.	83346	"	3 "	45	S. H. Ewing & Son, Montreal.	"	Club Custard Egg Powder.	None.	83346	
"	12 Baking Powder.	83347	R. B. Seaton & Co., Halifax.	3 "	30	A. W. Gillett Co., Ltd., Toronto.	"	Magic Brand	0-2	83347	
"	12 Cream of Tartar Substitute.	83348	W. H. Schwartz & Sons, Halifax.	3 "	12	W. M. D. Fearman, Halifax.	Mfr.	Crème Tartarine.	0-25	83348	
"	12 Baking Powder.	83349	Wm. Moore, Halifax.	3 "	36	McLaren's Ltd., Hamilton.	"	Woodill's Brand	0-2	83349	
"	13 "	83350	S. Thomson, Dartmouth, N.S.	3 "	75	The Imperial Co., Quebec.	Build Bros., Halifax.	"	0-2	83350	
"	13 Egg Powder	83351	"	3 "	"	"	"	"	None.	83351	

DISTRICT OF THREE RIVERS—DR. V. P. LAVALLEE, INSPECTOR.

Jan.	17 Baking Powder.	8008	Wilfrid Brassette, St. Felix de Valois.	3 bxs.	90	E. W. Gillett Co., Toronto.	"	"	Less than one.	8008	
"	17 Self-Raising Flour.	8010	Albert Bellerose, St. Felix de Valois.	1 car.	30	Brodie & Harvie, Montreal.	"	"	"	8010	

17 Self-Raising Flour. 8010 Albert Bellefleur, St. Felix de Valois. 50 praline & harvie, Montreal. 8010

17 Baking Powder	8011 Felix Champagne, St. Felix de Valois.	30 bxs	30 Herron, Leblanc, Jolicoeur, Jolicoeur.	8011
17 "	"	1 car. ton.	75 J. J. Duffy, Montreal.	8012
18 Self-Raising Flour	"	3 lbs.	30 Lariviere Bros., Montreal.	8013
18 Baking Powder	8015 Navier, St. Felix de Valois.	3 bxs.	30 Windsor Coffee and Spice Steam Mills Co., York.	8015
19 "	8018 G. H. Read, St. Felix de Valois.	3 "	75 Royal B. P. Co., Montreal.	8018
19 "	8020 Leon Bruncau, St. Felix de Valois.	3 "	30 Dominion B. P. Co., Montreal.	8020
19 Self-Raising Flour	8025 Geo. Dufresne, St. Felix de Valois.	1 car. ton.	35 Brodie & Harvie, Montreal.	8025
19 Baking Powder	8026 "	3 bxs.	75 Standard Spice Co., Three Rivers.	8026
21 Eggerine	8029 Ulderic Carignan, Three Rivers.	3 bxs.	30 Canada Drug Co., Quebec.	8029
21 Egg Powder	8031 O. Carignan & Sons, Three Rivers.	3 pkgs	75 Rose & Laflamme, Montreal.	8031
22 Baking Powder	8033 Weaver & Gelinas Co., Three Rivers.	3 bxs.	75 L. A. Moisan, Quebec.	8033
22 "	8034 J. C. Potras, Three Rivers.	3 bxs.	45 Caleman B. P. Co., Brockville.	8034
22 Egg Powder	8036 "	3 pkgs	75 Rola Products, Montreal.	8036
23 Can. Egg Baking Powder	8037 J. N. Godin, Three Rivers.	3 bxs.	24 Le Moulin Economique, 1244 Ave. Panneau, Montreal.	8037
23 Egg Powder	8038 "	3 "	57 Rose & Laflamme, Montreal.	8038
23 Eggerine	8039 "	3 pkgs	24 Canada Drug Co., Quebec.	8039
24 Baking Powder	8041 "	3 bxs.	30 Integrity Mills, Toronto.	8041
24 Self Raising Flour	8042 Arthur Beland, Three Rivers.	Three 3 lb.	25 Ontario Mills, No. 8, Iberville, Montreal.	8042

DISTRICT OF MONTREAL—J. J. COSTIGAN, INSPECTOR.

Jan. 22 Egg Powder	74378 E. St. Hilaire, 2256 St. Montreal.	Clark 3 pkgs	30 La Cie Imperial, Quebec.	74378	None.
22 Eggine	"	3 "	30 C. T. Morrisey Co., Chicago.	74379	"
22 Baking Powder	74380 D. Desjardins, 107 St., Montreal.	Bleury 3 tins.	75 Victor B. P. Mills.	74380	Less than one.

BULLETIN No. 411—ARSENIC IN BAKING MATERIALS.

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.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.	No. of Sample.	Remarks and Opinion of the Chief Analyst.
				Quantity.	Cents.	Manufacturer.	Furnisher.				

DISTRICT OF MONTEAL—Concluded.

1918	Jan. 24 Baking Powder.	74381	A. Mireault, 116 Mt. Royal Ave. E., Montreal.	36	3 tins.			Ocean	Less than one.	74381	
"	" 24 Egg Powder....	74382	" " "	30	3 pkgs	Le Moulin, Economique.		"	None.	74382	
"	" 24 Economic Powder.	74383	Granger & Collins, 151 1/2 Rachel St. E., Montreal.	45	3 "	The Economic Mills.		"	"	74383	
"	" 24 Self Raising Flour.	74384	J. E. Vauquette, 16 Rachel St. E., Montreal.	90	3 "	Lariviere Ferrus		"	Less than one.	74384	
"	" 24 Baking Powder.	74385	A. Barabell, 1197 St. Dominique St., Montreal.	24	3 "	"		King Brand	"	74385	
"	" 24 "	74386	D. Endleberg, 1129 St. Dominique St., Montreal.	15	3 "	Diamond Starch Co.		"	1	74386	
"	" 28 Tartarine.....	74387	National Coffee & Spice Co., St. Paul St., Montreal.	25	3 "	Vendors.....		"	Less than one.	74387	

DISTRICT OF OTTAWA—J. A. RICKEY, INSPECTOR.

Jan. 18	Egg Powder, Comp.	80520	L. R. Mulligan, Billing's Bridge.	45	3 tins.	Rola Products, Montreal.		Rola quality contains evaporated fresh eggs and pure food colouring. Contents of package equal to 2 dozen fresh eggs.	None.	80520	
"	18 Teco.....	80522	" " "	45	3 pkgs	The E. Kenberg Co., Portland, N. Y.		Self Raising Flour.	Less than one	80522	
"	22 Baking Powder..	80525	O. Lemieux, Rue du Pont, Hall.	75	3 tins.	E. W. Gillett Co., Toronto.		Magic.....	"	80525	

"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Levo.	Baking Powder.	"	"	"	"	"	"	"	"	"	"	"	"	"
80528	80529	80530	80531	80532	80533	80534	80535	80536	80537	80538	80539	80540	80541	80542
O. Lemieux, Rue du Pont, 8 tins. Hull.	J. O. Charron, Rue Papin, 3 " Eau, Hull.	C. C. Montpetit, Le Duc and 3 pkgs Hotel de Ville, Hull.	T. J. Somerville, 3rd Ave. 3 " and Bank St., Ottawa.	Cowie & More, 756 Bank 3 " St., Ottawa.	H. Armstrong, 769 Bank 3 tins. St., Ottawa.	Halspenny & Co., 591 Bank 3 pkgs St., Ottawa.	" " " " " " " " " " " "	Eastman's Grocery, 71 Pres. 3 " ton St., Ottawa.	" " " " " " " " " " " "	Howle & Richard, 111 Clar. 3 pkgs ence St., Ottawa.	" " " " " " " " " " " "	Stratton & Co., Lyon St., 3 " Ottawa.	J. Bambrick, George St., 3 tins. Ottawa.	J. H. Shouldis, Herridge 3 pkgs St., Ottawa.
75	60	54	30	75	45	75	45	45	30	30	54	45	30	
L. H. Major & South- here, Ottawa.	Lariviere Freres, Ltd., Montreal.	Aunt Jemima Mills Co., St. Joseph, Miss Toronto.	The Litzler Pure Food Co., Ltd., Toronto.	Alfred Bird & Sons, Ltd., London, Eng.	White Swan S. & C. Co., Ltd., Toronto.	The McLaren B. P. Ltd., Toronto.	B. O. Products Ltd., Montreal.	Edvard G. Nacion & Co., Ltd., Bristol, N. Y.	The Cako Mfg. Co., Birmingham.	McLaren's Ltd., Hamilton.	White Swan S. & C. Co., Ltd., Toronto.	Integrity Mills, Toronto.	Bee Starch Co., Montreal.	
Cartier.	Manitoba.	Aunt Jemima.	Tartarine.	Bird's.	White Swan	Cook's Gem. Phosphate and Soda Bicarb.	Warranted free from alum.	Cako.	Not for medicinal use.	White Swan.	Best.	Can be used for any purpose for which cream of tartar is used, and is absolu- tely pure.		
80531	80533	80534	80535	80537	80538	80540	80541	80542	80545	80546	80549	80551	80554	
"	"	"	"	"	"	"	"	None	Less than one.	"	"	1	Less than one.	

DISTRICT OF TORONTO—H. J. DAGER, INSPECTOR.

Jan.	25	25	31	31
Baking Powder.	"	"	"	"
81072	81073	81131	81132	
Dalton Bros., 11 Front St. 3 cans E., Toronto.	R. B. Hayhoe & Co., 47 Col. 3 " borne St., Toronto.	The McGregor Harris Co., 3 pkgs Ltd., 90 Sherbourne St., Toronto.	Pure Gold Mfg. Co., Ltd., 3 " 381 College St., Toronto.	
Vendors	"	"	"	
60	44	24	21	
Favorite.	Hayhoe's.	J.M.L.	Our 1900 Dairy.	
81072	81073	81131	81132	
Less than one.	"	"	"	

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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.		Inspector's Report. (Is not an expression of opinion.)	Results of Analysis.		Remarks and Opinion of the Chief Analyst.
			Quantity.		Cents.		Manufacturer.	Furnisher.		Arsenic.	Parts per Million.	

DISTRICT OF TORONTO—Continued.

1918.	"	24	Egg Powders...	81081	N. Carmichael, 1158 Yonge St., Toronto.	3 "	75	Alfred Bird & S. n. Ltd., Birmingham, Eng.	Concentrated Egg Substitute, not to make from eggs.	Less than one.	81081	
"	"	24	"	81082	R. Higgins & Sons, Ltd., 804 Yonge St., Toronto.	3 "	75	No Egg Co., Toronto	No-egg Egg Substitute.	None.	81082	
"	"	24	"	81083	Barrons Ltd., 728 Yonge St., Toronto.	3 "	75	Reese Lafamme Ltd., Montreal.	Rola Brand.	"	81083	
"	"	25	"	81120	Canada Brokerage Ltd., 593 Front St. E., Toronto.	3 "	75	Rola Products, Montreal.	Egg Powder Com.	"	81120	
"	"	25	"	81121	Armstrong Pafford Ltd., 363 Yonge St., Toronto.	3 "	25	A. N. Christy & Co., Newark.	Eggs. Egg Substitute artificially coloured.	"	81121	
"	"	25	"	81122	The Robt. Simpsen Co., Ltd., Queen & Yonge St., Toronto.	3 "	38	Sturcliffe & Bingham, Ltd., Cornbrook, Manchester.	Kkovah Egg Substitute.	Less than one.	81122	
"	"	30	"	81123	W. J. Houston, 2407 Dundas St., Toronto.	3 "	60	Parisian Products Co., Fort Erie.	No egg, Egg Substitute.	None.	81123	
"	"	30	"	81124	Nacker Bros., 1242 Bloor St. W., Toronto.	3 "	54	"	"	"	81124	
"	"	31	"	81125	G. H. Kerr, 408 Spadina Ave., Toronto.	3 "	15	E. J. Nation & Co., Ltd., Bristol.	"	"	81125	
"	"	31	Baking Powder	81133	The Libser Pure Food Co., Ltd., 1237 Queen St. W., Toronto.	3 cans	25	Vendors	Comfort	Less than one.	81133	
Feb. 1	"	"	"	81134	White Swan Spices & Cereals Ltd., 156 Pearl St., Toronto.	3 "	49	"	Loyal Canadian	"	81134	
"	"	"	Self Raising Flour.	81145	F. Simpsen & Son, 7341 Yonge St., Toronto.	1 pkg	18	The Ekenberg Co., Courtland, N. Y.	Teco	"	81145	
Jan. 25	"	"	Cream of Tartar Substitute.	81089	Dalton Bros., 11 Front St. E., Toronto.	3 "	38	Vendors	"	2	81089	Maximum limit for arsenic.

	31	S1136 The McEggor Harris Co., Ltd., 90 St. Andrew St., Toronto.	15	Prevalent Chemical Co., St. Louis.	Packages are in labelled and sold as Acid Phosphate to bakers only.	Less than one.	81136
Jan. 25 Cream of Tartar Substitute.	31	81089 Dalton Bros., 11 Front St. E., Toronto.	38	Vendors			
"	"	81137 The Libster Pure Food Co., Ltd., 127 Queen St., W., Toronto.	25	Vendors		2	81137 Maximum limit for arsenic.
Feb. 1	"	81138 White Swan Spices & Cereals Ltd., 156 Pearl St., Toronto.	30	"		Less than one.	81138
Jan. 24 Self Raising Flour.	"	81097 W. C. Cork, 1146 Yonge St., Toronto.	15	Aunt Jemima Mills Co., St. Joseph, Mo., U.S.A. Vendors		"	81097
"	31	81098 Diaden Flour Co., 391 Church St., Toronto.	13	Vendors		"	81098
Feb. 1	"	81099 White Swan Spices & Cereals Ltd., 159 Pearl St., Toronto.	13	"		"	81099
"	1	81144	13	"		"	81144

DISTRICT OF HAMILTON—H. J. DAGGER, ACTING INSPECTOR.

	17	81064 Lunnsden Bros., 82 McNabb St., Hamilton.	70		Purity	Less than one.	81064
Jan. 16 Baking Powder.	17	81065 Wm. Carroll's Grocery, 94 John St., S. Hamilton.	54	Vendors	Alliance	"	81065
"	18	81066 McLaren's Ltd., Park and Merrick Sts., Hamilton.	25	Vendors	Lakeside	2	81066 Maximum limit for arsenic.
"	18	81067 R. Delding, 208 York St., Hamilton.	36	"	Sweetheart	Less than one.	81067
"	18	81068 Bard & Co., 229 Catherine St., Hamilton.	5	Vendors	Bulk	"	81068
"	21	81069 S. Darch, 413 James St., N. Hamilton.	75	"	Maple Leaf	"	81069
"	"	81070 Wm. Smye, Jr., 75 Welby St., Hamilton.	60	"		"	81070
"	22	81071 Dalley Products Ltd., 753 Hughson St., N. Hamilton.	60	"	Kitchen Queen	"	81071
"	16	81074 Bristol, Somerville & Co., 73 McNabb St., N. Hamilton.	46	Parisian Products Co., Ltd., Fort Erie	No-egg. Egg substitute.	None	81074
"	13	81075 Balfour, Smye & Co., 5 Nabb St., N. Hamilton.	56	Parisian Products Co., Ltd., Fort Erie	Egg Powder Com-pound. Equal to two dozen eggs.	"	81075
"	16	81076 Lunnsden Bros., 82 McNabb St., Hamilton.	35	Parisian Products Co., Ltd., Fort Erie	No-egg. Egg substitute.	"	81076
"	17	81077 The Arcade, James St., Hamilton.	60	Holbrook & Co., Birmingham, Eng.	Imperial Egg Substitute.	Less than one.	81077

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				Quantity.	Cents.	Manufacturer.	Furnisher.				
1918											
Jan. 17	Egg Powder	81078	Pebbles, Hobson & Co., Ltd., 3 cans, King and Market Sts., Hamilton.	75		The Canadian Egg-Save Co., Ltd., Toronto.		Eggsave	None	81078	
"	"	81079	W. R. Budge, 171 John St., 3 pkgs S. Hamilton.	75		C. T. Morrissey & Co., Chicago.		Eggine. Artificially coloured.	"	81079	
"	"	81080	Duff Stores, Ltd., 216 York St., Hamilton.	60		Alfred Bird & Sons, Ltd., Birmingham, Eng.		Concentrated Egg Substitute. Not made from eggs.	Less than one.	81080	
"	Cream of Tartar Substitute.	81084	Imperial Cocoa & Spice Co., Ltd., 83 McNabb St., N. Hamilton.	25		Vendors		Cream Tartar Compound.	1	81084	
"	"	81085	McLaren's, Ltd., Park and Merrick Sts., Hamilton.	45		"		"	Less than one.	81085	
"	Self Raising Flour.	81093	The Arcade, James St., N. Hamilton.	15		White Swan Spice & C., Ltd., Toronto.		"	"	81093	
"	"	81094	Pebbles, Hobson & Co., Ltd., King and McNabb Sts., Hamilton.	15		"		"	"	81094	
"	"	81095	A. G. Bain & Co., 89 King St. E., Hamilton.	15		Bard & Co., Hamilton.		Red Ribbon Brand.	"	81095	
"	"	81096	R. Dolding, 298 York St., Hamilton.	15		Aunt Jennima Mills Co., St. Joseph, Mo.		"	"	81096	

DISTRICT OF HAMILTON—Concluded.

DISTRICT OF WINDSOR—JOHN TALBOT, INSPECTOR.

Jan. 16	Egg Substitute.	65384	Wyckoff & Gafney, London.	3	pkgs	Alfred Bird & Sons, Birmingham, Eng.		"	Less than one.	65384	
17	Baking Powder	65388	Mitchell's Grocery, London.	3	tins.	E. Gillett & Co., Toronto.		Magic	"	65388	

17	Baking Powder.	65388	Mitchell's Grocery, London. 3 tins.	55	E. Gillett & Co., Toronto.	one.	65388
1	Self-Raising Flour.	65389	W. H. Kerr & Sons, London. 3 pkgs.	45	White Swan S. & Co., Ltd.	Maple Leaf Brand.	65389
"	Baking Powder.	65391	W. H. Kerr & Sons, London. 3 tins.	36	I. X. L. Spice Co., London.	"	65391
"	"	65393	Janes & Trepper, London. 3 "	30	Eggo B.P. Co., Hamilton.	"	65393
"	"	81202	Legg & Gartshore, London. 2 "	45	I. X. L. Spice Co., London.	"	81202
"	Egg Substitute.	81203	Alfred Johnson, London. 3 pkgs.	45	Parisian Products Co., Fort Erie.	None	81203
"	Baking Powder.	81204	J. W. McKenzie, London. 3 tins.	60	I. X. L. Spice Co., London.	Less than one.	8204
"	"	81205	W. B. Hilland, London. 3 "	30	German Eckert Co., London.	"	81205
"	"	81207	G. B. Drake, London. 3 "	45	"	"	81207

## DISTRICT OF MANITOBA—J. B. COSGROVE, INSPECTOR.

Jan. 22	Egg Substitute.	79690	W. S. Houston, 1630 Portage Ave., Winnipeg. 3 ea.	60	Alfred Bird & Co., Birmingham, Eng.	Less than one.	79690
"	Baking Powder.	79691	T. W. Hedger, 1056 Main St., Winnipeg.	45	White Star Mfg. Co., Winnipeg.	White Star Brand.	79691
"	Self-Raising Flour.	79692	Hudson's Bay Co., Winnipeg. 3 pkgs.	45	Aunt Jemima Mills Co., St. Joseph, Mo., U.S.A.	"	79692
"	Baking Powder	79693	C. F. McPhillip, 990 Portage Ave., Winnipeg. 3 ea.	30	Old Standard Mfg. Co., Winnipeg.	"	79693
"	"	79694	C. G. Carter, 887 Westmain Ave., Winnipeg.	75	"	"	79694
"	"	79695	H. F. McKinley, 891 Westminister Ave., Winnipeg.	45	Eggo B.P. Co., Hamilton.	"	79695
"	"	79696	I. Brunstein, 148 Higgins Ave., Winnipeg.	35	Blackwoods Ltd., Winnipeg.	"	79696
"	"	79697	W. H. Morgan, 140 Higgins Ave., Winnipeg. 3 "	45	E. W. Gillett, Toronto.	"	79697
"	"	79698	J. W. Wright, 850 St. Matthews Ave., Winnipeg. 3 "	75	"	"	79698
"	"	79699	E. A. Whaley, 843 Ellice Ave., Winnipeg.	30	Blue Ribbon Co., Ltd., Winnipeg.	Manufactured for Vendor.	79699
Feb. 1	Self-Raising Flour.	79700	W. H. Stone Co., 648 Main St., Winnipeg.	45	Hamioka F. M. Co., Hamiota, Man.	Bake-light Brand.	79700



BULLETIN No. 411—ARSENIC IN BAKING MATERIALS.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cust.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report (Is not an expression of opinion).	Results of Analysis. Arsenic. Parts per Million.	No. of Sample.	Remarks, and Opinion of the Chief Analyst.
				Quantity.	Centre.	Manufacturer.	Furnisher.				
DISTRICT OF MANITOBA—Concluded.											
1918.											
Feb. 7	Baking Powder.	79709	H. E. Weldon, 383 Portage Ave, Winnipeg.	3pkgs.		75 Royal B.P. Co., New Jersey.			Less than one.	79709	
" 7	"	79710	W. J. Robinson, 887 Ave, Winnipeg.	"		75 Hamilton C. & S. Ltd., Hamilton.			"	79720	
" 11	"	79720	J. B. Coyle, 1118 Main St., Winnipeg.	"		150 Equal Egg Co., Vancouver.			"	79720	
DISTRICT OF SASKATCHEWAN L. H. HALL, J. M. DANIS, INSPECTORS.											
Feb. 11	Egg Powder....	83010	The Colonial Grocery Co., Regina.	3pkgs.		45 Sutcliffe & Bingham, Manchester.	McClure & Langley, Winnipeg.	Kkovah .....	Less than one.	83010	
" 11	"	83011	The Regina Trading Co., Regina.	"		45 Equal Egg Co, Ltd., Vancouver.	Cameron & Heap, Regina.	Equal-Egg. ....	"	83011	
" 12	Cream of Tartar Substitute.	83016	Campbell, Wilson & Strath, dec, Regina.	3 cans.		60 Caverly Plumer C., Lynn, Mass.	Wilson & Tinnesdale, Winnipeg.	Circle R. Brand. . .	"	83016	
" 11	Baking Powder.	83014	McLean Grocery Co., Ltd., Regina.	"		60 No Vary Products Co., Toronto.	Mfrs .....	No Vary " ...	"	83014	
" 11	"	83015	Cameron & Heap, Ltd., Regina.	"		60 Imperial C. & S. Co., Hamilton.	" .....	Trian " ...	"	83015	
" 12	"	83017	A. MacDonald Co., Ltd., Regina.	"		65 Blue Ribbon, Ltd., Winnipeg.	" .....	Blue Ribbon Brand	"	83017	
" 13	"	83019	Stephen Bros., Regina.	"		75 H. R. MacKinnon Co, Ltd., Winnipeg.	" .....	Melrose Brand....	"	83019	
Jan. 25	"	81815	R. J. McCClinton, North Battleford.	"		75 Gold Standard Mfg. Co., Winnipeg.	" .....		"	81815	
" 25	Self Raising Flour.	81816	R. J. McCClinton, North Battleford.	3pkgs.		60 Aunt Jamima Mills Co., St. Joseph, Mo., U.S.A.	" .....		"	81816	

"	25	Self Raising Flour.	81816	R. J. McCintion, North Battleford.	3 pkgs.	60	Eggo B. P. Co., Hamilton.	"	81816
"	"	"	81820	Alfred Bird & Sons, Ltd., Birmingham, Eng.	"	60	Alfred Bird & Sons, Ltd., Birmingham, Eng.	"	81820
"	"	"	81822	D. Jones, North Battleford.	3 pkgs.	6	Aunt. Jemima Mills Co., St. Joseph, Mo., U.S.A.	"	81822
"	"	"	81823	D. Jones, North Battleford.	3 cans.	75	Blue Ribbon, Ltd., Winnipeg.	"	81823
"	"	"	81824	White Star Grocery, Saskatoon.	"	75	H. L. MacKinnon, Winnipeg.	"	81824
"	"	"	81826	White Star Grocery, Saskatoon.	"	1.50	Equal Egg Co., Ltd., Vancouver.	"	81826
"	"	"	81830	A. Wolahaw & Son, Saskatoon.	"	40	White Star B.P. Vendors.	"	81830
"	"	"	81831	The Allied Store, Saskatoon.	"	70		"	81831
"	"	"	81834	Hock & Kaat 37, Rosthern.	"	30	Gold Standard Mfg. Co., Winnipeg.	"	81834
"	"	"	81836	J. Kevasneck, Rosthern.	0	60	E. W. Gillett Co., Toronto.	"	81836

## DISTRICT OF VANCOUVER—G. G. ARMYTAGE, INSPECTOR.

Jan.	23	Baking Powder.	76257	J. A. Lowe, 1002 Seymour St., Vancouver.	3 cans.	60	W. H. Malkin Co., Ltd., Vancouver.	0.2	76257
"	"	25	Equal Egg.	A. Brewis, 1192 Hastings St., E., Vancouver.	"	75	Equal Egg Co., Vancouver.	None.	76258
"	"	29	Eggo Baking Powder.	Annandale Supply Co., Westminster, B.C.	3	75	Eggo B. P. Co., Hamilton.	25	76259
"	"	29	Egg Substitute.	C. A. Welsh, Ltd., Westminster, B.C.	"	60	Alfred Bird & Sons, Ltd., Birmingham, Eng.	None.	76260
Feb.	5	Self-Raising Flour.	76261	S. T. Wallace, 44 Hastings St., W. Vancouver.	3 pkgs.	20	The Puget Sound Flour Mills Co., Tacoma, Wash.	2	76261
"	"	6	Pancake Flour.	David Spencer, Ltd., Hastings St., W. Vancouver.	"	90	Moffet Flour Co., Vancouver.	4	76262
"	"	7	Baking Powder.	Duke's Grocery, Hastings & Gore, W. Vancouver.	3	45	White Star Mfg. Co., Winnipeg.	5	76263

Adulterated by excess arsenic.

Maximum limit for arsenic.

Excess arsenic—Adulterated.

