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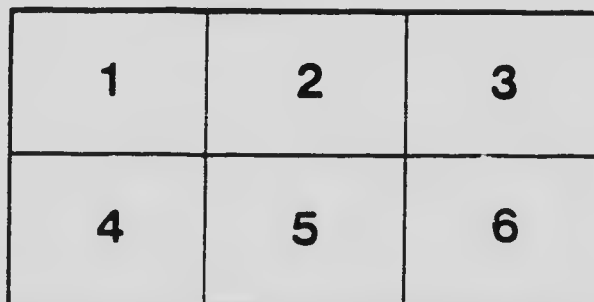
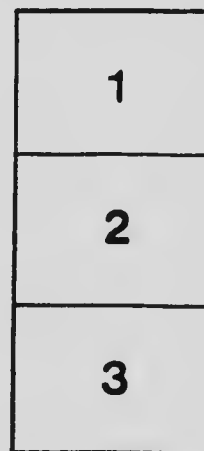
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W. J. Gerald
Deputy Minister.

LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA

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BULLETIN No. 206
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FLOUR
NITRITE REACTING NITROGEN IN.



LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA

BULLETIN No. 206

FLOUR

NITRITE REACTING NITROGEN IN.

OTTAWA, April 27, 1910.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I beg to hand you herewith, a report upon the examination of two hundred and twenty-three (223) samples of flour, with special reference to the determination of Nitrite reacting Nitrogen. These samples may be taken as fairly representing flour, as sold throughout Canada, since they have been obtained in all the inspectoral districts of the Dominion.

The question of the artificial whitening (bleaching) of flour by means of nitrous oxide, has caused much discussion, both among millers and by the consuming public, during the last year. Especially is this true of the United States, where the matter was brought to a focus by a decision given by Judge Pollock in the Supreme Court of North Dakota, in January, 1909. Expert testimony was heard on both sides of the case, which arose out of a question raised by the Russell-Miller Milling Co. *et al.*, as to whether Food Commissioner Ladd was legally justified in condemning the sale of flour bleached by nitrous oxide, as being contrary to the North Dakota Food Law.

The court upheld the validity of Commissioner Ladd's action, and thus made the sale of bleached flour illegal in North Dakota. But, as regards the harmfulness to health of the bleached flour, Judge Pollock expressed himself, as follows:—'After considering all the testimony, I am of the clear opinion that upon the general claim of having introduced no deleterious compound or substance into the flour, which remains therein after baking, the plaintiffs have been successful, and that the decided weight of the testimony is in their favour in this respect.' It would thus appear that, while the judgment is a technical victory for the food commissioner, it is a victory, in a more real sense, for the millers.

More recently (March, 1910), the State of Pennsylvania indicted a grocer for selling corn starch in which the State Chemist found a trace of nitrites (about 2.8 parts, per million). Experts were heard on both sides, the defendants (National Starch

Co.) claiming that no nitrites had been used in the manufacture of the article, and disclaiming all responsibility for the presence of nitrites found by the analyst. Among other technical evidence adduced by the defendants, it was shown that starches made by the alkali process, are capable of taking up oxides of nitrogen from the air. Also, that flour, although having an acid reaction, contains, in its colouring matter a base similar to the alkali in starch, and that this colouring matter combines with great avidity with the oxides of nitrogen in air to form a nitrite.

The judge said he had become convinced 'that the case involved some scientific truths, not before known; and that while the State had brought the case in all good faith, he was convinced that the defendant ought not to be found guilty.'

It will be seen from the foregoing, that the question of bleached flour is still unsettled, considered from the standpoint of the health of the consumer. Another difficulty is that of the analyst whose duty it is to discover whether or not a given sample has been bleached.

The question of the validity of legislation in the matter does not concern us, as Canada has no legislation with regard to bleached flour. It is quite certainly within the scope of the Adulteration Act, to pronounce upon the question of what shall, and what shall not, be sold as flour in Canada. Whether or not, it may be considered desirable to prohibit the manufacture and sale of flour bleached by oxides of nitrogen, is, for the present, in abeyance. The immediate object of the present investigation is to ascertain whether our analytical methods and our knowledge of the subject, are such as to enable us to pronounce, with certainty, that a given sample of flour has been so bleached. Until we can accomplish this, any legislation in the matter would, of course, remain a dead letter. But before undertaking a study of the results now placed in your hands, it may be permitted to consider briefly some aspects of the fact of bleaching, itself.

It is well known that a new flour becomes lighter in colour by exposure to light and air. It is believed that the colouring matter is chiefly present in the minute traces of oil which remain in flour, even when most carefully made, by modern machinery. This is apparent from the fact that a good solvent for oils, (gasoline) is capable of removing from flour at the same time the oil and the colouring matters. The whitening of a flour by exposure to light and air may be spoken of as natural bleaching, and this is one of the results of the so-called 'ageing' of flour. Ordinary air contains minute traces of oxides of nitrogen, and sometimes faint traces of an active form of oxygen, known as ozone. It is found that any means by which we can increase the amount of oxides of nitrogen and of ozone, in the air, increases at the same time, the effectiveness of such air, as a bleacher of flour.

No objection has ever been taken (so far as I am aware) to the addition of ozone to air; but the oxides of nitrogen, being much more easily available, and more vigorous in action, are usually employed, either with or without ozone. These oxides are very poisonous, and the main argument against their use is based upon the assumption that sufficiently large amounts of them in excess of the quantity actually employed in destroying the colour, remain in the flour, to give it a positively harmful and dangerous character. This is denied by millers, who further claim that the heat of the oven would effectively drive off any excess of oxides of nitrogen, did such excess exist in the flour. The arguments for and against the wholesomeness of nitrite bleached flour, must, for the present be taken as leaving the matter an open question.

As to the occurrence of nitrite reacting nitrogen in flour, it is undeniable that flour may take up oxides of nitrogen from the air, which at all times contains traces of these oxides, such traces being more distinctly marked after electrical discharges, or disturbances. A sample of flour which gave no reaction for nitrites, was exposed for 10 days (March 12) to the outer air, on the roof of this building. At the end of that time it was found to contain 1.6 parts per million. On further exposure for a total period 25 days, it showed 3.0 parts per million. An exposure of 4 days in the atmosphere of the laboratory, which is of necessity more highly charged with oxides of nitrogen than the outer air, resulted in the taking up of 5.2 parts per million. Flour which has been bleached by oxides of nitrogen, especially if it has been treated in excess, will naturally give off the excess of these gases, and may thus contaminate flour stored in its vicinity. A sample which contained 6.3 parts per million was inclosed under a bell-jar with

another sample which gave no nitrite reaction. After 12 days the first sample was found to contain 5.7 parts per million, while the second sample, which had contained no nitrites, now showed 0.5 parts per million. Another sample showing 5 parts nitrite per million, was similarly inclosed with a nitrite free sample, for 15 days; at the end of which time, the second sample was found to have taken up only a trace of nitrite nitrogen, while the first sample showed only 1 part per million. This disappearance of nitrite nitrogen was probably due to oxidation to the nitric condition. In all the cases cited, the flour was exposed in thin layers, and was thus given every chance to take up any oxides of nitrogen in the air about it. Normal storage of flour in bags or barrels furnishes quite different conditions, and it is reasonable to suppose that the absorption of oxides of nitrogen here quoted, is very much greater than would obtain under commercial conditions.

Alway and Gortner (Jour. A. M. Chem. Soc. 1907, 1503) find the average amount of nitrites in bleached flour to be 6.3 per million. Is it possible to fix a limit of nitrite above which it shall be safe to declare 'this flour has been bleached.' Out of the 223 samples now reported, 148 give no reaction for nitrites.

Of 75 samples which show measurable amounts of nitrites, 25 contain not more than 1 part per million, leaving 50 samples, or 22 per cent of the total collection, to contain above 1 per million of nitrites.

In the following tabulation of results, it must be understood that the statements of fact given are intended as a basis for the discovery and enunciation of a principle, and are not to be taken as ascertained evidence for or against bleaching, or as affirming or negating the fact of bleaching in a particular case. It is amply evident that the bleaching of flour by oxides of nitrogen has resulted from a popular demand for white flour, and a conviction on the part of the millers that they were meeting this demand in a perfectly harmless manner. Whether or not any danger to public health results from bleaching flour by oxides of nitrogen, is a most important question, and one upon which judgment is reserved. Of this we may feel perfectly sure that should a decision be reached, upon scientific grounds, and so clear as to justify the prohibition of oxides of nitrogen as bleaching agents, the larger millers will be found prompt to recognize such decision and to live up to it.

In the meantime consumers who object to taking any risks, and who want to know that no fundamental change in the character of a food stuff so important as flour, can occur without their being made aware of it, have a right to be informed whether a flour offered them has been treated with oxides of nitrogen, or not. It is therefore desirable that, if possible, limiting standards should be set, as follows:—(1) A definite content of nitrite reacting nitrogen in flour, exceeding which we may feel justified in saying 'this flour has been bleached by oxides of nitrogen;' (2) a maximum content of nitrite reacting nitrogen beyond which we may conclude 'this flour is probably dangerous to health.'

I believe that the data furnished herewith will aid the advisory board to reach conclusions on these points, as well as to instruct the public regarding the matter of bleached flour; and I beg to recommend the publication of this report as Bulletin No. 206.

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

A. MCGILL,
Chief Analyst.

NOTE.—In the above, and throughout this Bulletin, nitrite reacting nitrogen is stated in terms of sodium nitrate. This is in conformity with the usage of writers on the subject, and in order to facilitate comparison.

No. of Sample.	Name of Manufacturer.	Name of Brand.	Nitrite reacting Nitrogen as NaNo ₂ .
39657	The Quaker Oats Co.	Quaker	0.75
42918	"	Quaker	none.
44719	"	"	none.
39653	Ogilvie Milling Co.	Royal Household	0.5
40429	"	Royal Household	none.
42920	"	Royal Household	none.
43429	"	Royal Household	none.
35659	"	Royal Household	none.
35655	"	Royal Household	none.
35647	"	Royal Household	none.
35644	"	Royal Household	none.
37816	"	" Royal Household	none.
41634	"	"	none.
1267	"	Glenora	1.8
40438	"	Glenora	trace.
41447	"	Glenora	none.
43421	"	Baker's Special	none.
1264	"	Economy	none.
37815	"	"	0.7
44213	Western Canada Flour Mills Co.	Purity	trace.
1262	"	Purity	3.2
42914	"	Purity	0.5
42922	"	Purity	trace.
41448	"	Purity	1.3
44727	"	Purity	3.7
37827	"	Purity	0.9
41639	"	Purity	none.
43418	"	3 Stars	none.
40436	"	3 Stars	none.
43419	"	Pastry	none.
1266	"	Snow Drift	none.
43423	"	Lily	none.
43424	"	"	1.0
44208	"	"	1.0
44211	"	McLeod's Special	trace.
41901	McLeod Milling Co., Stratford, Ont.	McLeod's Special	2.5
41910	"	Beaver	1.1
41904	T. H. Taylor Milling Co., Chatham, Ont.	Beaver	none.
41907	"	Beaver	none.
38634	"	Beaver	none.
41908	"	Five Roses	none.
41905	Lake of the Woods Milling Co.	Five Roses	none.
41915	"	Five Roses	none.
35645	"	Five Roses	none.
39648	"	Five Roses	none.
36509	"	Five Roses	none.
1273	"	Five Roses	0.6.
42921	"	Five Roses	0.6.
43427	"	Five Roses	0.5
35643	"	Five Roses	0.5
35645	"	Five Roses	0.5
35648	"	Five Roses	none.
35656	"	Five Roses	none.
37813	"	Five Roses	none.
41635	"	Five Roses	none.
40427	"	Five Roses	none.
40437	"	Keewatin	none.
43428	"	Harvest Queen	none.
44206	"	"	none.
44212	"	"	none.
44214	"	"	none.
44217	"	"	none.
44734	"	"	none.

No. of Sample.	Name of Manufacturer.	Name of Brand	Nitrite reacting Nitrogen as NaNO ₂
41900	Campbell Milling Co., Chatham.	Halifax.	1.7
41914	" " Toronto.	Queen City.	none.
39650	" " Toronto West.	Cream of the West.	trace.
39658	The John Campbell Co., Lt., St. Thomas.	Sunbeam.	2.3
47461	" " " "	Sunbeam.	4.0
39685	" " " "	White Rose.	8.8
39644	" " " "	Campbell's Blend.	1.0
42547	Campbell's Milling Co., St. Thomas.	Campbell's Blend.	trace.
44717	Goldie Milling Co., Guelph.	Snow Drift.	9.0
47909	" " Ayr, Ont.	Goldies Star.	5.0
39628	" " " "	Goldies Star.	3.4
39647	" " " "	Goldies Star.	5.3
39641	" " " "	Our Best.	6.5
39652	" " " "	Gold Seal.	4.5
44746	" " Guelph.	" "	2.0
41911	Tillson & Co., Tillsonburg.	Tillson's Delight.	none.
47913	" " " "	Rainbow.	none.
39632	" " " "	Tillson's Pride.	none.
39636	" " " "	Royal Stewart.	trace.
39631	Canadian Flour Mills, Chatham.	Five Diamonds.	1.0
39635	" " " "	Kent Mills.	7.2
39637	Wolverton Milling Co.	Eatey.	4.0
39640	" " " "	Holmans Leader.	none.
39659	" " " "	Keystone.	2.8
39645	Plattsville Milling Co.	Strathcona.	none.
39655	The Flavelle Milling Co.	Crusader.	2.5
39651	The Meduxnakeag Roller Mills.	Primrose.	none.
42513	Watford Milling Co.	" "	trace.
42526	Hayne Milling Co.	Haynes best 3 points.	none.
42531	Eureka Roller Mills.	Eldorado.	3.1
42524	" " " "	Eldorado.	5.2
43417	Morden Roller Mills.	Early Down.	none.
43430	Leitch Bros. Milling Co.	Sovereign?	0.5
44207	" " " "	" "	2.0
39640	Medicine Hat Milling Co.	Prairie Pride.	none.
37818	" " " "	Prairie Pride.	none.
41640	" " " "	Prairie Pride.	none.
35649	Taylor Milling Co.	Pride of Alberta.	none.
35651	" " " "	Pride of Alberta.	2.3
35652	Calgary Milling Co.	Seal of Alberta.	5.3
35653	" " " "	Seal of Alberta.	1.0
41647	" " " "	Seal of Alberta.	2.6
41642	" " " "	Hungarian Patent.	0.5
35654	Western Milling Co.	Rising Sun.	none.
37867	Saskatchewan Flour Mills.	Robin Hood.	1.2
41641	" " " "	Robin Hood.	1.4
44215	" " " "	Robin Hood.	1.2
37819	Allison Milling & Elevator Co.	Our Best.	1.0
41646	" " " "	Our Best.	3.0
37821	Vancouver Milling Co.	Wild Rose.	none.
41643	" " " "	Wild Rose.	none.
41644	" " " "	Royal Standard.	none.
1263	Renfrew Roller Mills Co.	White Star.	1.2
1270	" " " "	White Star.	4.5
1271	Norval Roller Mills.	Pastry.	none.
40428	Wm. Scott & Co.	White Clover.	none.
42924	" " " "	White Clover.	none.
42925	" " " "	Polar Star.	none.
42913	Maple Leaf Flour Mills Co.	Nelson.	none.
42919	" " " "	Quality.	none.
43425	" " " "	Hard Wheat.	none.
43426	" " " "	Castle.	none.
42915	Campbell & McNabb.	Rosebud.	none.

No. of Sample.	Name of Manufacturer.	Name of Brand.	Nitrite reacting Nitrogen as NaNO_2 .
42917	Hunt Bros	Cabot	6.3
44739	"	"	2.0
42516	"	"	none.
42507	"	Diamond	2.0
42923	Dowd Milling Co.	Hungarian Patent	none.
44210	Seaforth Milling Co.	"	trace.
44732	"	Wane Crest	none.
44218	Peterboro Cereal Co.	"	trace.
44220	Central Milling Co.	"	0.5
41455	Caledonia Milling Co.	Bridal Veil	none.
44738	Goderich Milling Co.	"	2.0
37822	Columbia Flour Mills	Premium	0.5
37826	"	Drifted Snow	none.
41636	"	Drifted Snow	none.
41637	"	Three Star	none.
41645	"	Moffets Best	none.
37824	Hammond Milling Co.	Queen Ann	1.2
37825	Easterbrook Milling Co.	Imperial	none.
41638	The Portland Flouring Mills Co.	Snowflake	none.
1276	Sutcliffe Milling Co.	Bread	none.
40439	McDonald & Robb	Our Best	none.
40440	"	R. H. Patent	none.
1275	"	Pastry	none.
42911	Pembroke Milling Co.	Manitoba Blend	none.
42912	Jno. P. Millar & Sons	Bakers Patent	none.
42916	G. D. Atkinson	Atkinson's Special Hungarian	none.
44209	Kingston Milling Co.	"	none.
41452	The Wood Milling Co.	Gold Medal	none.
41453	The Hamilton Milling Co.	Peacemaker	none.
41454	The Ker Milling Co.	Thistle-down	none.
41457	Milton Flour Mills	"	none.
41458	J. Black & Son	Herald	none.
41459	The Hedley Shaw Milling Co.	Selkirk	none.
41460	Monroe & Roan-tree	Perfect	none.
44722	Irvin Masters	King	trace.
42537	King Milling Co.	Bonnie Doon	none.
43416	W. J. Lindsay & Co.	Lindsay's Patent	none.
43422	Geo. McCulloch & Sons	Ladies Choice	none.
43429	Nichols Hubbard & Brine	Sweet Home	0.5
37823	Hudson Bay Co.	Hudson Bay Hungarian	none.
41648	Central Mills	Whole Wheat	none.
41902	B. A. Thomson	Favourite	1.9
41903	Coffard & Sons	Lady of Snow	1.4
44743	S. Carter & Sons	"	none.
41912	C. Carter Co., Ltd.	Carters Best	none.
38643	"	Sinclair & Stewarts Best	none.
38633	Shirk & Snider	Buda	1.2
38639	"	Rear Admiral	none.
38642	G. W. Robinson	Red Rose	none.
39646	Jas Cullen	Silver King	none.
39654	Partlo-Miller	Gold Leaf	1.8
39656	S. J. Cherry	Gold Coin	none.
1265	Stewart, Denault Co.	White Rose	none.
1268	Carrigan & Fils.	Pastry	none.
1272	The Alex. Brown Milling & E. Co.	White Rose	none.
1274	Manitoba Self Raising Flour Co.	Prepared	0.5
40431	Snyder Milling Co.	Ocean	none.
40432	"	Ocean	none.
44216	A. Pratt	"	none.
41449	N. V. Denne & Co.	White Crown	none.
41450	W. S. Summerfeldt & Sons	Regina	none.
41451	G. S. Baldwin	Hungarian	none.

No. of Sample.	Name of Manufacturer or Furuisher.	Name of Brand.	Nitrite reacting Nitrogen as NaNO_2 .
41456	R. W. Smith		
41725	Faber Bros.	Lily White.	none.
36512	"	Lily White.	none.
44735	Stewart Bros.	Perth Standard	trace.
44740	"		none.
44742	Ratz & Co.		none.
44747	Cargel & Son.		2.0
44750	J. & V. Fair.		none.
42506	H. Hamlyn	Hearty Delight	none.
42512	J. Hawkins	Hawkins Daisy.	trace.
42534	W. W. Paling.		none.
42535	J. Martyn.		none.
42540	Jas. Cullen	Our Best.	none.
35642	Campbell & Otherwell	King Edward.	2.7
36508	J. B. Renaud & Cie.	White Rose.	0.5
36521	"	Royal	4.2
36518	"		2.2
36510	P. G. Busière		none.
36511	"	Patent.	none.
36516	"	National	none.
36513	Désiré Drolet		0.5
36519	"	Frontenac	none.
36514	Drolet & Dugal.		none.
36515	Lennon & Co.	Esty	5.0
36517	W. Carrière & Fils.	Shamrock.	0.8
1269	A. Spénard.	Royal Alexandra.	none.
		Pastry.	1.7

No. of Sample.	Name of Vendor.	Name of Brand.	Nitrite reacting Nitrogen as NaNO_2 .
36520	G. Moreau		
36522	A. Pouliot		2.0
40430	F. Riley		3.2
40433	W. H. Lanning	"A"	0.5
40434	O. Marchand	Best Pastry.	trace.
40435	J. G. Leonard	Champion	none.
40441	J. B. Lefebvre.	Hurona.	trace.
37814	E. A. Edgett Co.	Canadian Bakers.	none.
37820	A. & C. Grocery		none.
			0.5

BULLETIN No. 206—FLOUR—(NITRITE REACTING NITROGEN IN)

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.
				Quantity.	Cents.			Nitrite re-Calculated acting Ni. as Sodium Nitrite.	Parts per million.	
1910.	7 Flour.	41901	Larder Hubley & Co., Halifax, N.S.	2 lbs.		10 McLeod Milling Co., Stratford, Ont.	McLeod's Special.	Trace.		41901
"	"	41902	Dillon Bros., Halifax, N.S.	2 "		8 B. A. Thompson, Lyden, Ont.	Favourite.	0.38	1.9	41902
"	"	41903	C. S. Davis, Halifax, N.S.	2 "		7 Coffard & Sons, Thamesford, Ont.	Lady of Snow.	0.28	1.4	41903
"	"	41904	W. E. Crowe & Co., Halifax, N.S.	2 "		8 T. H. Taylor Milling Co., Chatham, Ont.	Beaver.	0.22	1.1	41904
"	"	41905	Share & Campbell, Halifax, N.S.	2 "		8 Lake of the Woods Milling Co., Toronto, Ont.	Five Roses.	None.	None.	41905
"	"	41906	J. L. Archibald, Halifax, N.S.	2 "		8 Campbell Milling Co., Chatham, Ont.	Halifax.	0.34	1.7	41906
"	"	41907	W. J. Hopgood & Son, Halifax, N.S.	2 "		8 T. H. Taylor Milling Co., Chatham, Ont.	Beaver.	None.	None.	41907
"	"	41908	J. D. Stewart, Halifax, N.S.	2 "		8 " " " "	"	"	"	41908
"	"	41909	R. B. Adams & Co., Halifax, N.S.	2 "		8 Goldie-Milling Co., Ayr, Ont.	Goldie's Star.	1.0	5.0	41909
"	"	41910	S. T. Craig, Halifax, N.S.	2 "		8 McLeod Milling Co., Stratford, Ont.	McLeod's Special.	0.5	2.5	41910
"	"	41911	H. C. Barnaby & Sons, Bridge-water, N.S.	2 "		8 Tillson Milling Co., Ltd., Tillsonburg, Ont.	Tillson's Delight.	None.	None.	41911
"	"	41912	Bent & Jodfrey, Bridgewater, N.S.	2 "		8 C. Carter Co., Ltd., St. Marys, Ont.	Carter's Best.	"	"	41912
"	"	41913	Wm. Law & Co., Yarmouth, N.S.	2 "		8 Tillson Milling Co., Ltd., Tillsonburg, Ont.	Rainbow.	"	"	41913
"	"	41914	Cain Bros., Yarmouth, N.S.	2 "		8 Campbell Milling Co., Ltd., Toronto, Ont.	Queen City.	"	"	41914
"	"	41915	O. Lyons, Kentville, N.S.	2 "		7 Lake of the Woods Milling Co., Toronto, Ont.	Five Roses.	"	"	41915

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

DISTRICT OF PRINCE EDWARD ISLAND—T. MOORE, INSPECTOR.

Mar.	5	Flour	38631	Geo. Rackham, Charlottetown.	2 lbs.	7	Canadian Flour Mills, Chatham, Ont.	Five Diamonds.	0.2	1.0	38631
"	"	"	38632	W. W. Walker, Charlottetown.	2 "	7	Tillson Co., Tillsonburg, Ont.	Tillson's Pride.	None.	None.	38632
"	"	"	38633	T. F. Mahar, Charlottetown.	2 "	7	Shirk & Snider, Bridgeport, Ont.	Buds.	0.24	1.2	38633
"	"	"	38634	Joseph Crabbe, Charlottetown.	2 "	7	T. H. Taylor, Chatham, Ont.	Beaver.	None.	None.	38634
"	"	"	38635	T. E. Hagon, Charlottetown.	2 "	7	Canadian Flour Mills, Chatham, Ont.	Key Mills.	1.44	7.2	38635
"	"	"	38636	Beer & Goff, Charlottetown.	2 "	7	Tillson Co., Tillsonburg, Ont.	Royal Stewart.	Trace.	Trace.	38636
"	"	"	38637	Stewart & Son, Charlottetown.	2 "	7	Wolverton Milling Co., Wolverton, Ont.	Estey.	0.8	4.0	38637
"	"	"	38638	D. McKenzie & Co., Kensington.	2 "	7	Goldie Milling Co., Ayr, Ont.	Star.	0.68	3.4	38638
"	"	"	38639	James Kennedy, Kensington.	2 "	7	Shirk & Snider, Bridgeport, Ont.	Rear Admiral.	None.	None.	38639
"	10	"	38640	R. T. Holman Ltd., Summerside.	2 "	7	Wolverton Milling Co., Wolverton, Ont.	Holman's Leader.	"	"	38640
"	10	"	38641	Brace & McKay, Summerside.	2 "	7	Goldie Milling Co., Ayr, Ont.	Our Best.	1.3	6.5	38641
"	10	"	38642	F. W. Strong, Summerside.	2 "	7	G. W. Robinson, Summerside.	Red Rose.	None.	None.	38642
"	10	"	38643	Sinclair & Stewart, Summerside.	2 "	7	George Carter & Co., St. Marys, Ont.	Sinclair & Stewart's Best.	"	"	38643
"	15	"	38644	A. L. McDonald, Souris.	2 "	7	John Campbell Co., St. Thomas, Ont.	Campbell's Blend.	0.2	1.0	38644
"	15	"	38645	Mathew & McLean, Souris.	2 "	7	Lake of the Woods Milling Co., Kewatin, Ont.	Five Roses.	None.	None.	38645

DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR.

Mar.	3	Flour	39645	Two Barkers Limited, St. John, N.B.	2 lbs.	6	Plattsville, Milling Co., Ontario.	Strathcona.	None.	None.	39645
"	5	"	39646	J. Fred Shaw, St. John, N.B.	2 "	10	James Cullen, Woodstock, Ont.	Silver King.	"	"	39646
"	9	"	39647	W. A. Porter, St. John, N.B.	2 "	10	D. Goldie, Ontario.	Goldie's Star.	1.06	5.3	39647
"	10	"	39648	H. S. & W. H. Frances, St. John, N.B.	2 "	10	Lake of the Woods Milling Co., Kewatin, N.B.	Five Roses.	None.	None.	39648
"	15	"	39650	John McKnight, Fredericton, N.B.	2 "	8	The Campbell Milling Co., West Toronto.	Cream of the West.	Trace.	Trace.	39650
"	16	"	39651	Medunakag Roller Mills, Woodstock, N.B.	2 "	10	Vendor.	Primrose.	None.	None.	39651

BULLETIN No. 206—FLOUR—(NITRITE REACTING NITROGEN IN).

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS		No. of Sample.
				Quantity.	Cents.		Nitrite reacting Nitrogen, Parts per million.	(Calculated as Sodium Nitrite, Parts per million.	
1910.									
Mar. 17	Flour	39652	E. Beveridge, Andover, N.B.	2 lbs.	16	Goldie Milling Co., Ltd.	0.9	4.5	39652
" 18	"	39653	J. W. McPhail, Perth, N.B.	2 "	10	Ogilvie Milling Co., Ltd., Canada	None	None	39653
" 18	"	39654	Mrs. L. Mallory, Perth, N.B.	2 "	10	Parlo Miller, Ingersoll.	0.36	1.8	39654
Apr. 5	"	39655	The Sussex Mercantile Co., Ltd., Sussex, N.B.	2 "	10	The Flaxell Milling Co., Lindsay, Ont.	0.5	2.5	39655
" 7	"	39656	D. & J. Ritchie & Co., New castle, N.B.	2 "	10	S. J. Cherry, Ontario	None	None	39656
" 7	"	39657	M. Bannon, Newcastle, N.B.	2 "	10	The Quaker Oats Co., Peterboro.	0.15	0.75	39657
" 8	"	39658	The Nepequin Lumber Co., Bathurst, N.B.	2 "	10	The John Campbell Co., Ltd., St. Thomas, Ont.	0.46	2.3	39658
" 8	"	39659	Jos. J. McLean, Bathurst, N.B.	2 "	16	Wolverton Milling Co., Wolverton, Ont.	0.56	2.8	39659
" 8	"	39685	W. J. Kent, Bathurst, N.B.	2 "	7	The John Campbell Co., Ltd., St. Thomas, Ont.	1.76	8.8	39685

DISTRICT OF NEW BRUNSWICK—J. C. FERGUSON, INSPECTOR—Concluded.

DISTRICT OF QUEBEC—E. BELAND, INSPECTOR.

Mar. 2	Flour	36508	T. E. Morand, 406 Rue Valier, Quebec.	2 lbs.	7	T. B. Renaud & Co., Quebec.	0.84	4.2	36508
" 2	"	36509	Alfred Boily, 36 Cote D'Alma, Quebec.	2 "	8	P. G. Buisser, Quebec.	None	None	36509
" 2	"	36510	T. A. Minguy, 139 Rue Richelieu, Quebec.	2 "	7	"	"	"	36510
" 2	"	36511	T. Voyer, 226 Rue Richelieu, Quebec.	2 "	7	"	"	"	36511

"	2	"	36512 J. Desjardins, 27 Rue Sutherland 2 Quebec.	7	T. B. Renaud & Co., Quebec.	Lily White	Trace	36512
"	2	"	36513 V. Larresse, 17 Rue St. Clair, 2 Quebec.	"	Desire Drouet, Quebec.	Frontenac	None	36513
"	2	"	36514 Thon. Macklosky, 21 Rue St. 2 Michel, Quebec.	8	Drolet & Dougal, Quebec.	Esty	1-0	36514
"	2	"	36515 N. Binet, 1 Rue des Jardins, 2 Quebec.	10	Lenon & Co., Quebec	Sh. bk.	0-16	36515
"	2	"	36516 O. Lacroix, 19 Rue St. Joseph, 2 Quebec.	8	P. G. Busiere, Quebec		0-1	36516
"	4	"	36517 Hamel & Bedard, 728 Rue St. 2 Clair, Quebec.	7	W. Carriere & fils, Quebec	Royal Alexandra	None	36517
"	7	"	N. Lamontagne, 71 Rue Saussa, 2 Jean, Quebec.	7	T. B. Renaud & Cie, Quebec.		"	36518
"	7	"	33 Madin Y. A. Baril, 143 3 ^{me} Av., 2 Limoilou.	8	Desire & Drouet, Quebec		"	36519
"	7	"	36520 G. Moreau, 4 ^{em} Ave., Limoilou, 2	7	Unknown		0-4	36520
"	7	"	36521 G. H. St. Cyr, 95 Rue du Pont, 2 Limoilou.	10	T. B. Renaud & Cie, Quebec.		0-44	36521
"	7	"	36522 A. Pouliot, 45 Rue Laliberte, 2 Limoilou.	8	Unknown		0-64	36522

DISTRICT OF ST. HYACINTHE—J. C. ROULEAU, INSPECTOR.

Mar.	3	Flour	1262 Percy & Reade, Bedford	2 lbs.	7	Western Canada Flour Mills, Purity Montreal.	0-1	0-5	1262
"	3	"	1263 Arsenic Duchesneau, Stanbridge 2	"	6	The Renfrew Roller Mills Co., White Star Renfrew.	0-21	1-2	1263
"	4	"	1264 J. H. Brault, St. Armand	3 1/2 "	12	Ogilvie Milling Co., Montreal	None	None	1264
"	7	"	1265 El. Lalerge, Iberville	2 "	5	Stewart-Denaud Co., Ltd., St. White Rose Jean.	"	"	1265
"	7	"	1266 J. O. Veronneau, Drummond-ville	2 "	6	Western Flour Mills Co., Mont-Pastry	"	"	1266
"	8	"	1267 O. Marcotte, Davelyville	2 "	7	Ogilvie Milling Co., Montreal	"	"	1267
"	9	"	1268 P. F. Cyrenne, Becancour	2 "	6	Carrignan & fils, Trois Rivières	"	"	1268
"	10	"	1269 Arthur Blanchet, St. Angele de Laval	2 "	6	A. Spenard, Trois Rivières	"	"	1269
"	15	"	1270 Gerin & Bonlay, Coaticook	2 "	7	The Renfrew Roller Mills Co., White Star Renfrew.	0-34	1-7	1270
"	15	"	1271 R. W. Bradford, Granby	2 "	7	Norval Roller Mills, Norval, Ont.	0-9	4-5	1271
"	15	"	1272 N. O. Rockwell, Waterloo	2 "	7	The Alex. Brown Milling & E. White Rose Co., Toronto.	None	None	1272

BULLETIN No. 206—FLOUR—(NITRITE REACTING NITROGEN IN).

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.
				Quantity.	Cents.			Nitrite re-acting Parts per million.	Calculated Nitrite. Parts per million.	

DISTRICT OF ST. HYACINTHE—J. C. ROULEAU, INSPECTOR.—Continued.

1910.	Mar. 15	FLOUR.	1273	A. M. Hunter, Foster.	2 "	7	The Lake of the Woods Milling Co., Montreal.	Inspector's Report.	None.	None.	1273
"	"	"	1274	E. Paradis, Magog.	pkgs.	18	Manitoba Self-raising Flour Co., Montreal.	(Is not an expression of opinion).	0.1	0.5	1274
"	"	"	1275	Hulburd & Bell, Cowansville.	2 lbs.	7	McDonald & Robb, Valleyfield.		None.	None.	1275
"	"	"	1276	Stewart, Denault & Co., Leduc, St. Jean.	2 "	7	Sutcliffe Milling Co., Moosomin, Sask.		"	"	1276

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

Mar.	9	FLOUR.	40427	W. Mayer, St. Jerome, P.Q.	2 lbs.	7	Five Roses.	Inspector's Report.	None.	None.	40427
"	9	"	40428	C. E. Laflamme, St. Jerome, P.Q.	2 "	6	White Clover.	(Is not an expression of opinion).	"	"	40428
"	10	"	40429	A. Bastian, 686 Laurier Ave., Montreal.	2 "	8	Royal Household.		0.1	0.5	40429
"	10	"	40430	F. Riley, 738 Laurier Ave., Montreal.	2 "	8	" A.		0.1	0.5	40430
"	10	"	40431	A. E. Sennat, 147 Villeneuve, Montreal.	2 "	8	Ocean.		None.	None.	40431
"	10	"	40432	J. F. Legault, 148 Villeneuve, Montreal.	2 "	9	"		"	"	40432
"	10	"	40433	W. H. Lanning, 1051 St. Louis, Outremont.	2 "	10	Pest Pastry.		Trace.	Trace.	40433
"	11	"	40434	Omer Marchand, Beauharnois, P.Q.	2 "	7	Champion.		None.	None.	40434
"	11	"	40435	J. G. Leonard, Beauharnois, P.Q.	2 "	7	Hurons.		Trace.	Trace.	40435

15	"	40436	F. O. Lanatche, Berthierville, P.Q.	2 "	6	Western Canada Flour Mills Co., Ltd.	3 Star	None	None	40436
"	15	40437	"	2 "	6	Lake of the Woods Milling Co., Ltd.	Kewatin	"	"	40437
"	15	40438	"	2 "	6	Ogilvie Flour Mills Co., Ltd.	Glennora	0.36	1.8	40438
"	22	40439	McDonald & Robb, Valleyfield, P.Q.	2 "	6	Vendors	Our Best	None	None	40439
"	22	40440	"	2 "	6	"	Red Horse Patent	"	"	40440
"	24	40441	J. B. Lesfobvre, St. Therese de Blainville, P.Q.	2 "	7	"	Canadian Bakers	"	"	40441

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

Mar.	1	Flour	42911	Pembroke Milling Co., Pembroke	2 lbs.	Vendors	Manitoba blend	None	None	42911
"	1	"	42912	Jno. P. Millar & Sons, Pembroke	2 "	"	Bakers Patent	"	"	42912
"	2	"	42913	Cameron Milling Co., Hawkesbury	2 "	Maple Leaf Flour Mills Co., Ltd., Kenora	Nelson	"	"	42913
"	2	"	42914	D. Seward, Hawkesbury	2 "	Western Canada Flour Mills Co., Ltd., Goderich	Purity	0.64	3.2	42914
"	4	"	42915	"	2 "	Campbell & McNabb, Douglas	Roseland	None	None	42915
"	4	"	42916	G. D. Atkinson, Cornwall	2 "	Vendor	Atkinsons Special Hungarian	"	"	42916
"	4	"	42917	Tilton & Graham, Cornwall	2 "	Hunt Bros., London, Ont.	Cabot	1.26	6.3	42917
"	4	"	42918	Black & Borthwick, Cornwall	2 "	Quaker Oats Co., Peterboro	Quaker	None	None	42918
"	5	"	42919	J. W. McKay, Ottawa	2 "	Maple Leaf Flour Mills Co., Ltd., Kenora	Quality	"	"	42919
"	8	"	42920	A. H. Mattice, Ottawa	2 "	The Ogilvie Flour Mills Co., Montreal	Royal Household	"	"	42920
"	8	"	42921	A. G. McCormick, Cornwall	2 "	Lake of the Woods Milling Co., Ltd., Glennora	Five Roses	"	"	42921
"	8	"	42922	Jno. L. Waite, Ottawa	2 "	Western Canada Flour Mills Co., Toronto	Purity	0.1	0.5	42922
"	8	"	42923	W. A. Arnberg, Ottawa	2 "	Doved Milling Co., Ltd., Packham	Hungarian Patent	None	None	42923
"	8	"	42924	L. Reneaud, Ottawa	2 "	Wm. Scott & Co., Deschenes, P.Q.	White Clover	Trace	Trace	42924
"	8	"	42925	"	2 "	"	Polar Star	None	None	42925

BULLETIN No. 206--FLOUR--(NITRITE REACTING NITROGEN IN).

Date of Collection.	Nature of sample.	No. of Sample.	Name and Address of the Vendor.	Cost.		Inspector's Report. (Is not an expression of opinion).	RESULTS OF ANALYSIS		
				Quantity.	(cents).		Nitrite, re-Calculated as Sodium Nitrite.	Parts per million.	
1910.									
Mar.	1 Flour.....	44206	W. P. Peters, Kingston.....	2 lbs.	10	Lake of the Woods Milling Co.....	None.....	None.....	44206
"	"	44207	Geo. Gibson, Kingston.....	2 "	7	Leitch, Oak Lake.....	0.4	2.0	44207
"	"	44208	J. A. McFarland, Kingston.....	2 "	6	Western Canada Flour Co.....	0.2	1.0	44208
"	"	44209	Kingston Milling Co., Kingston.....	2 "	10	Vendors.....	None.....	None.....	44209
"	"	44210	D. Hutchison, Kingston.....	2 "	10	Seaforth Milling Co.....	Trace.....	Trace.....	44210
"	"	44211	C. Rathman, Belleville.....	2 "	10	Western Canada Flour Mills Co.	0.2	1.0	44211
"	"	44212	Panter & Son, Belleville.....	2 "	8	Lake of the Woods Milling Co.....	None.....	None.....	44212
"	"	44213	A. Pakes, Belleville.....	2 "	10	Ogilvie Milling Co.....	0.14	0.7	44213
"	"	44214	H. E. Fairfield, Belleville.....	2 "	10	Lake of the Woods Milling Co.....	None.....	None.....	44214
"	"	44215	E. A. Duncan, Cobourg.....	2 "	10	Robin Hood.....	0.24	1.2	44215
"	"	44216	Hooley & Son, Cobourg.....	2 "	6	A. Pratt.....	None.....	None.....	44216
"	"	44217	J. Curtis, Port Hope.....	2 "	10	Lake of the Woods Milling Co.....	"	"	44217
"	"	44218	H. L. Burnham, Peterboro.....	2 "	10	Peterboro Cereal Co.....	Trace.....	Trace.....	44218
"	"	44219	Roland Deane, Peterboro.....	2 "	10	Quaker Oats Co., Peterboro.....	None.....	None.....	44219
"	"	44220	Savigny Bros., Peterboro.....	2 "	10	Central Milling Co., Peterboro.....	0.1	0.5	44220

DISTRICT OF KINGSTON--JAS. HOGAN, INSPECTOR.

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

Mar.	2 Flour.	41447	Wm. Elliott, Toronto.	Parliament st., 2 lbs.	10	The Ogilvie Flour Mills Co., Ltd.	Patent Glengowan	Trace.	41447
"	"	41448	J. Haines, Toronto. <th>3</th> <td>10</td> <td>Western Canada Flour Mills Ltd. Toronto. <td>Purity.</td> <td>"</td> <td>41448</td> </td>	3	10	Western Canada Flour Mills Ltd. Toronto. <td>Purity.</td> <td>"</td> <td>41448</td>	Purity.	"	41448
"	"	41449	Cody & York, Toronto. <th>4</th> <td>10</td> <td>H. V. Denne & Co., Newmarket. <td>White Crown.</td> <td>None.</td> <td>41449</td> </td>	4	10	H. V. Denne & Co., Newmarket. <td>White Crown.</td> <td>None.</td> <td>41449</td>	White Crown.	None.	41449
"	"	41450	W. S. Summerfeldt & Sontz, Supton. <th>4</th> <td>10</td> <td>Vendors.</td> <td>Regina.</td> <td>"</td> <td>41450</td>	4	10	Vendors.	Regina.	"	41450
"	"	41451	G. S. Baldwin, Aurora. <th>4</th> <td>10</td> <td>Vendor.</td> <td>Hungarian. <td>"</td> <td>41451</td> </td>	4	10	Vendor.	Hungarian. <td>"</td> <td>41451</td>	"	41451
"	"	41452	The Wood Milling Co., Hamilton. <th>7</th> <td>10</td> <td>Vendors. <td>Gold Medal. <td>"</td> <td>41452</td> </td></td>	7	10	Vendors. <td>Gold Medal. <td>"</td> <td>41452</td> </td>	Gold Medal. <td>"</td> <td>41452</td>	"	41452
"	"	41453	Hamilton Milling Co., Hamilton. <th>7</th> <td>5</td> <td>"</td> <td>Peacemaker. <td>"</td> <td>41453</td> </td>	7	5	"	Peacemaker. <td>"</td> <td>41453</td>	"	41453
"	"	41454	The Ker Milling Co., Dundas. <th>8</th> <td>10</td> <td>"</td> <td>Thistle-down. <td>"</td> <td>41454</td> </td>	8	10	"	Thistle-down. <td>"</td> <td>41454</td>	"	41454
"	"	41455	W. Pringle & Son, Hamilton. <th>8</th> <td>5</td> <td>The Caledonia Milling Co., Ltd., Caledonia. <td>Bridal Veil. <td>"</td> <td>41455</td> </td></td>	8	5	The Caledonia Milling Co., Ltd., Caledonia. <td>Bridal Veil. <td>"</td> <td>41455</td> </td>	Bridal Veil. <td>"</td> <td>41455</td>	"	41455
"	"	41456	Thos. S. Morris, Hamilton. <th>9</th> <td>10</td> <td>R. W. Smith, Jarvis. <td>"</td> <td>"</td> <td>41456</td> </td>	9	10	R. W. Smith, Jarvis. <td>"</td> <td>"</td> <td>41456</td>	"	"	41456
"	"	41457	Milton Flour Mills, Milton. <th>14</th> <td>5</td> <td>Vendor. <td>"</td> <td>"</td> <td>41457</td> </td>	14	5	Vendor. <td>"</td> <td>"</td> <td>41457</td>	"	"	41457
"	"	41458	J. Black & Son, St. Catharines. <th>15</th> <td>10</td> <td>Vendors. <td>Herald. <td>"</td> <td>41458</td> </td></td>	15	10	Vendors. <td>Herald. <td>"</td> <td>41458</td> </td>	Herald. <td>"</td> <td>41458</td>	"	41458
"	"	41459	The Hedley Shaw Milling Co., Ltd., St. Catharines. <th>15</th> <td>6</td> <td>"</td> <td>Selkirk. <td>"</td> <td>41459</td> </td>	15	6	"	Selkirk. <td>"</td> <td>41459</td>	"	41459
"	"	41460	Mouros & Roantree, Thorold, Ont. <th>16</th> <td>10</td> <td>"</td> <td>Perfect. <td>"</td> <td>41460</td> </td>	16	10	"	Perfect. <td>"</td> <td>41460</td>	"	41460
"	"	41461	H. J. Green, Niagara Falls. <th>16</th> <td>10</td> <td>The John Campbell Co., Ltd., St. Thomas. <td>Sunbeam. <td>0 8</td> <td>41461</td> </td></td>	16	10	The John Campbell Co., Ltd., St. Thomas. <td>Sunbeam. <td>0 8</td> <td>41461</td> </td>	Sunbeam. <td>0 8</td> <td>41461</td>	0 8	41461

DISTRICT OF LONDON—T. KIDD, INSPECTOR.

Mar.	10 Flour.	44717	James Hewer & Son, Guelph.	2 lbs.	10	James Goldie, Guelph.	Snow Drift.	1 8	44717
"	"	44722	11	2	8	Vendor.	King.	Trace.	44722
"	"	44725	12	3	10	Faber Bros., Wexley.	Lily White.	None.	44725
"	"	44727	15	2	10	Western Canada Flour Milling Co., Seaforth. <td>Purity. <td>0 26</td> <td>44727</td> </td>	Purity. <td>0 26</td> <td>44727</td>	0 26	44727
"	"	44733	18	2	10	Seaforth Milling Co., Seaforth. <td>Wave Crest.</td> <td>None.</td> <td>44733</td>	Wave Crest.	None.	44733
"	"	44734	18	3	10	Lake of the Woods Milling Co., Winnipeg. <td>"</td> <td>"</td> <td>44734</td>	"	"	44734

BULLETIN No. 206—FLOUR—(NITRITE REACTING NITROGEN IN)

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		No. of Sample.
				Quantity.	Cents.			Nitrite reacting Nitrogen, Parts per million.	Calculated as Sodium Nitrite, Parts per million.	
DISTRICT OF LONDON—T. KIDD, INSPECTOR.—Concluded.										
1910.										
Apr. 11	Flour.....	44735	Wm. Stomanan, Mitchell.	2 "	10	Stewart Bros., Mitchell.	Perth Standard.....	None.....	None.....	44735
" 12	"	44736	Vidier & Co.....	2 "	10	Goderich Milling Co., Goderich.		0.4	2.0	44738
" 13	"	44739	Peter Dill, Dublin.....	2 "	10	Hunt Bros., London.....		0.4	2.0	44739
" 13	"	44740	M. Klinghan.....	2 "	10	Stewart Bros., Mitchell.....		None.....	None.....	44740
" 14	"	44742	McCulley & Haugh, Stratford.	2 "	10	Ratz & Co., Tavistock.....		0.4	2.0	44742
" 14	"	44743	W. B. Butcher, St. Marys.....	2 "	10	F. Carter & Co., St. Marys.....		None.....	None.....	44743
" 19	"	44746	R. W. Wilson, Fergus.....	2 "	10	James Goldie & Co., Guelph.....		0.4	2.0	44746
" 19	"	44747	Steel Bros., Fergus.....	2 "	10	Cargil & Son, Cargill.....		None.....	None.....	44747
" 21	"	44750	H. Wilbeer, Clinton.....	2 "	10	J. & V. Fair, Clinton.....		"	"	44750

DISTRICT OF WINDSOR—JNO. TALBOT, INSPECTOR.

Mar.	3	Flour.....	42506	Hookway & Son, London.....	2 lbs.	H. Hamlyn, Lambeth.....	Hearty Delight.....	Trace.....	Trace.....	42506
"	3	"	42507	Adams & Tanton, London.....	2 "	Hunt Milling Co., London.....	Diuond.....	0.4	2.0	42507
"	4	"	42512	R. J. Wood, London.....	2 "	J. Hawkins, Arva.....	Hawkins Daisy.....	None.....	None.....	42512
"	4	"	42513	Cullis & Fleming, London.....	2 "	Watford Milling Co., Watford.....		Trace.....	Trace.....	42513
"	4	"	42516	John Whiting, London.....	2 "	Hunt Milling Co., London.....		None.....	None.....	42516
"	7	"	42524	Wm. Johnston, Sarnia.....	2 "	Mustard & Son, Wyoming.....	Eldorado.....	1.64	5.2	42524

42526	Gardner Bros	2 "	10	Hayne Milling Co., Bryden.....	Hayne's best 3 points.	None	None	42526
42527	King Milling Co., Sarnia.....	3 "		Vendors	Bonney Doon	"	"	42527
42531	A. Scarbrook, Petrolia.....	2 "	7	Eureka Roller Mills, Wyoming..	Eldorado	0 62	3 1	32531
42534	Geo. Primmer, Petrolia.....	2 "	7	W. W. Paling, Petrolia.....	"	None	None	32534
42535	Fred. Scarbrook, Petrolia.....	2 "	6	J. Martyn Co., Alvinston.....	Our best	"	"	42535
42540	D. W. Newcombe, St. Thomas..	2 "	5	Jas. Cullen, Woodstock.....	King Edward	0 54	2 7	42540
42541	"	2 "	5	Campbell Milling Co., St. Thomas	Sunbeam	Trace	Trace	42541

DISTRICT OF MANITOBA—A. C. LAKRIVIERE, INSPECTOR.

Mar.	7	Flour	43416	Wm. Bowen, Minnedosa.....	3 "	Nil	W. J. Lindsay & Co., Rapid City, Man.	Lindsay's Patent	None	None	43416
"	21	"	43417	Morden Roller Mills, Morden...	3 "	"	Morden Roller Mills, Morden...	Early Down	"	"	43417
"	28	"	43418	Western Canada Flour Mills Co., St. Boniface.	3 "	"	Vendors	Purity	"	"	43418
"	28	"	43419	"	3 "	"	"	Three Stars	"	"	43419
"	29	"	43420	The Ogilvie Flour Mills Co., Ltd., Winnipeg.	3 "	"	"	Royal Household	"	"	43420
"	29	"	43421	"	3 "	"	"	Glenora	"	"	43421
Apr.	7	"	43422	Geo. McCulloch & Sons, Souris.	3 "	"	"	Ladies Choice	"	"	43422
"	8	"	43423	Western Canada Flour Mills Co., Brandon.	3 "	"	"	Snow Drift	"	"	43423
"	8	"	43424	"	2 "	"	"	Lily	"	"	43424
"	8	"	43425	The Maple Leaf Flour Mills Co., Brandon.	3 "	"	"	Hard Wheat	"	"	43425
"	8	"	43426	"	2 "	"	"	Castle	"	"	43426
"	8	"	43427	Lake of the Woods Milling Co., Portage La Prairie.	3 "	"	"	Five Rows	"	"	43427
"	8	"	43428	"	2 "	"	"	Harvest Queen	"	"	43428
"	13	"	43429	Nichols, Hubbard & Brimden.	3 "	"	"	Sweet Home	0 1	0 5	43429
"	13	"	43430	Leitch Bros. Milling Co., Lake	3 "	"	"	Sweet Home	0 1	0 5	43430

* Smell of Turpentine. † Smells of Turpentine strongly.

BULLETIN No. 206—FLOUR—(NITRITE REACTING NITROGEN IN).

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.
				Quantity.	Cents.			Nitrite reacting Nitrogen. Parts per million.	Calculated as Sodium Nitrite. Parts per million.	
1910.										
Mar.	8 Flour.....	35642	J. H. Morris & Co., Edmonton.	2 lbs.	10	Campbell & Ottewill, Edmonton	White House.....	0 1	0 5	35642
"	" ".....	35643	Gilbert Berg, Edmonton.	2 " "	10	Lake of the Woods Milling Co., Keewatin.	Five Roses.....	None	None	35643
"	" ".....	35644	Hallier & Aldridge, Edmonton.	2 " "	10	Ogilvie, Winnipeg.....	Royal Household.....	"	"	35644
"	15 ".....	35645	Spencer & Todd, Medicine Hat.	2 " "	10	Lake of the Woods Milling Co.	Five Roses.....	0 1	0 5	35645
"	15 ".....	35646	L. B. Cochrane, Medicine Hat.	2 " "	10	Med. Hat Milling Co.	Prairie Pride.....	None	None	35646
"	22 ".....	35647	Hudson's Bay Co., Lethbridge.	2 " "	10	Ogilvie, Winnipeg.....	Royal Household.....	"	"	35647
"	22 ".....	35648	Bentley Co., Lethbridge.	2 " "	10	Lake of the Woods Milling Co.	Five Roses.....	0 1	0 5	35648
"	22 ".....	35649	MacDonald & Co., Lethbridge.	2 " "	10	Taylor Milling Co., Lethbridge.	Pride of Alberta.....	None	None	35649
"	22 ".....	35650	Geo. Kerr & Co., Lethbridge.	2 " "	10	Ogilvie, Winnipeg.....	Royal Household.....	"	"	35650
"	22 ".....	35651	H. A. McKillop Co., Lethbridge.	2 " "	10	Taylor Milling Co., Lethbridge.	Pride of Alberta.....	0 46	2 3	35651
"	29 ".....	35652	The Corner Grocery.....	2 " "	10	Calgary Milling Co.	Seal of Alberta.....	1 06	5 3	35652
"	29 ".....	35653	Hallat & Longten.....	2 " "	10	" " " " " "	" " " " " "	0 2	1 0	35653
"	29 ".....	35654	S. G. Freeze.....	2 " "	10	Western Milling Co., Calgary.	Rising Sun.....	None	None	35654
"	29 ".....	35655	J. T. Macdonald.....	2 " "	10	Ogilvie's, Winnipeg.....	Royal Household.....	"	"	35655
"	29 ".....	35656	Hudson's Bay Co.....	2 " "	10	Lake of the Woods Milling Co., Keewatin.	Five Roses.....	"	"	35656

DISTRICT OF CALGARY—R. W. FLETCHER, INSPECTOR.

DISTRICT OF VANCOUVER - J. F. POWER, INSPECTOR.

Mar. 10	Flour	37813	Ideal Grocery, Vancouver, B.C.	2 lbs.	20	Lake of the Woods Milling Co.	5 Roses	None	None	37813
"	"	37814	H. A. Edgett Co., Vancouver, B.C.	2 "	10	Unknown		"	"	37814
"	"	37815	Clark & Grocery, Vancouver, B.C.	2 "	10	Ogilvie Milling Co.	Economy	"	"	37815
"	"	37816	Duke's Grocery, Vancouver, B.C.	2 "	10	"	Royal Household	"	"	37816
"	"	37817	The White Grocery, Vancouver, B.C.	2 "	20	Saskatchewan Flour Mills Co. Ltd.	Robin Hood	"	"	37817
"	"	37818	J. D. Miller, Vancouver, B.C.	2 "	10	Medicine Hat Milling Co.	Prairie Pride	0.24	1.2	37818
"	"	37819	H. I. Parry	2 "	15	Allison Milling & Elevator Co.	Our Best	None	None	37819
"	"	37820	A. & C. Grocery, Vancouver	2 "	15	Unknown		0.2	1.0	37820
"	"	37821	McDowell Kinnis, Vancouver	2 "	10	Vancouver Milling Co.	Wild Rose	0.1	0.5	37821
"	"	37822	J. McTaggart, Vancouver	2 "	10	Columbia Flour Mills	Premium	None	None	37822
"	"	37823	Hudson's Bay Co., Vancouver	2 "	10	Hudson's Bay Co.	Hudson's Bay Hungarian	0.1	0.5	37823
"	"	37824	Tunus & Mitchell, Vancouver	2 "	10	Hampden Milling Co.	Queen Ann.	0.24	1.2	37824
"	"	37825	Walford & Roney, Vancouver	2 "	10	Eastbrook Milling Co.	Imperial	None	None	37825
"	"	37826	Wm. Crossman, Vancouver	2 "	10	Columbia Mills, Ltd.	Drifted Snow	None	None	37826
"	"	37827	W. H. Walsh, Vancouver	2 "	10	Western Canada Flour Mills	Parity	0.74	3.7	37827

DISTRICT OF VICTORIA - D. OSULLIVAN, INSPECTOR.

Mar. 15	Flour	41634	Windsor Grocery Co., Victoria, B.C.	2 lbs.	10	Ogilvie Flouring Mills, Winnipeg, Man.	Royal Household	None	None	41634
"	"	41635	The Brackman Ker Milling Co., Ltd., Victoria, B.C.	2 "	8	Lake of the Woods Milling Co., Kewatin, Victoria, B.C.	Five Roses	"	"	41635
"	"	41636	Saunders Grocery Co., Ltd., Victoria, B.C.	2 "	10	The Columbia Flouring Mills Co., Ltd., Enderby, B.C.	Drifted Snow	"	"	41636
"	"	41637	The Brackman Ker Milling Co., Ltd., Victoria, B.C.	2 "	8	"	Three Star	"	"	41637
"	"	41638	"	2 "	8	The Portland Flouring Mills Co., Albany, Oregon.	Snowflake	"	"	41638
"	"	41639	"	2 "	8	Western Canada Milling Co.	Parity	0.18	0.9	41639

BULLETIN No. 206—FLOUR—(NITRITE REACTING NITROGEN IN).

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.		
				Quantity.	Cents.			Nitrite reacting as Sodium Nitrite. Parts per million.	Calculated as Sodium Nitrite. Parts per million.			
1910.	"	16	Flour.....	41640	The Brackman Ker Milling Co., Ltd., Victoria, B.C.	2	8	Medicine Hat Milling Co., Medicine Hat, Alta.	Prairie Pride Patent.....	None.....	None.....	41640
"	"	16	"	41641	"	2	8	Saskatchewan Milling Co., Moose Jaw, Sask.	Robin Hood.....	0.28	1.4	41641
"	"	16	"	41642	"	2	8	Calgary Milling Co., Calgary, Alta.	Hungarian Patent.....	0.1	0.5	41642
"	"	16	"	41643	"	2	8	Vancouver Milling & Grain Co., Vancouver, B.C.	Wild Rose.....	None.....	None.....	41643
"	"	16	"	41644	"	2	8	"	Royal Standard.....	"	"	41644
"	"	16	"	41645	"	2	8	Columbia Flouring Mills Co., Ltd., Enderby, B.C.	Moffet's Best.....	"	"	41645
"	"	17	"	41646	Scott & Peden, Victoria, B.C.	2	5	Elison Mills & Elevator Co., Ltd., Raymond, Alta.	Our Best No. 1 Hard Wheat.	0.6	3.0	41646
"	"	17	"	41647	Geo. N. Gowen, Victoria, B.C.	2	10	Calgary Milling Co., Calgary, Alta.	Seal of Alberta.....	0.52	2.7	41647
"	"	17	"	41648	Sylvester Feel Co., Victoria, B.C.	2	Central Mills, Victoria, B.C.	Whole Wheat.....	None.....	None.....	41648

DISTRICT OF VICTORIA—D. O'SULLIVAN, INSPECTOR—Concluded.

