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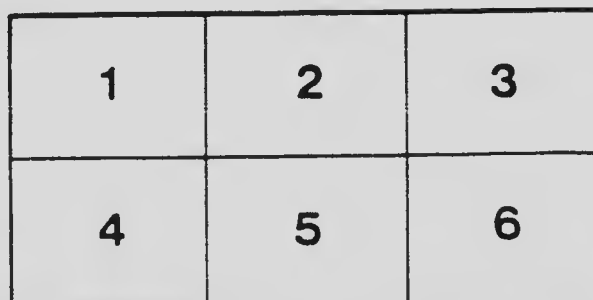
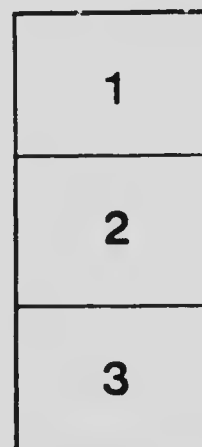
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LABORATORY
OF THE
INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

BULLETIN No. 243

COCOAS AND CHOCOLATES



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OF THE
INLAND REVENUE DEPARTMENT

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COCOAS AND CHOCOLATES

WM. HIMSWORTH, Esq.,
Acting Deputy Minister,
Inland Revenue,

OTTAWA, October 16, 1912.

SIR,—I beg to hand you a report upon 252 samples purchased as cocoas and chocolates in February and March of this year.

Cocoa has not been systematically inspected since September, 1900 (see Bulletin No. 72). At that time it was found that cocoa and chocolate were, as a rule, quite free from anything that could be regarded as adulteration.

The various processes of manufacture involving removal of more or less fat, addition of starch, fineness of grinding, etc., are for their object the preparation of the article in digestible form, and there can be no doubt that the different brands found on the market approve themselves to the different tastes and needs of users of cocoa.

The terms cocoa and chocolate appear to be employed according to no very definite rule. It would be well to restrict the term chocolate to the sugared article, and especially to a preparation containing vanilla or other flavouring substance.

Where our inspectors have sent in considerable numbers of samples from the same manufacturers, it will be noted that such samples, when representing the same brand, give analytical results of very constant character. This indicates great care in manufacture; and it may be safely inferred from the appended tables, that cocoa and chocolate, as found on our markets, are of good quality. In one or two instances (see No. 49350 & 49351) the ash and the fat content are exceptional. Such samples are usually sold in bulk, and do not bear the manufacturer's name. They contain excess of cocoa husk.

We have not established any legal standards for these articles, and the present report may serve the purpose of a guide for future action in this direction. The federal standards of the United States of America require chocolate to contain not more than three (3%) per cent of insoluble ash, or three and a half (3.5 %) per cent of fibre or less than forty-five (45%) per cent of cocoa fat. They further limit the amount of added starch permissible to nine (9%) per cent. Cocoa is defined as

a product from which more or less of the fat has been removed, with corresponding changes in the amount of remaining constituents.

I consider it unnecessary as yet to advise standardization of cocoa and chocolate; and would respectfully suggest that the present report be published as Bulletin No. 243.

I have the honour to be, sir,

Your obedient servant,

A. MCGILL,
Chief Analyst.

NOTES.

MOTTS.

Number of Sample.	ASH.		Alkalinity of Ash.	Moisture.	Fat.	Sugar.	Remarks.
	Total.	Soluble.					
47019	5.08	2.22	6.50	5.75	25.75	.....	Cocoa.
49347	5.70	2.55	7.05	6.15	18.80	.....	"
47022	3.27	.....	.....	.....	.....	.....	Chocolate.
47024	2.95	1.25	3.69	2.00	46.85	.....	"
46162	2.77	.....	.....	.....	.....	.....	"
45606	2.88	1.00	3.32	1.98	40.25	.....	"
49527	2.99	1.63	4.14	2.39	40.30	.....	"
40830	3.01	1.32	3.80	4.21	34.60	.....	"
49352	1.07	0.52	.....	0.97	22.10	63.32	Double diamond.

"CADBURY."

50127	1.48	0.94	.....	1.23	7.30	72.71	Chocolate.
50130	1.48	0.93	.....	1.25	7.25	71.46	"
44127	1.65	1.04	.....	1.94	7.35	69.50	"
48607	8.20	6.72	10.05	3.90	27.20	.....	Cocoa.

EPPS.

*46169	1.53	0.66	2.00	4.27	23.15	30.78	Cocoa.
39037	1.46	.....	.....	.....	.....	.....	"
*40822	1.56	0.64	2.05	3.71	22.70	31.56	"
*50125	1.58	0.70	2.05	3.78	23.20	29.68	Presence of starch (arrowroot) stated on the label.

GHIRARDELLI.

38280	2.77	1.96	.....	1.92	14.20	58.50	Chocolate powder.
47700	3.02	2.05	.....	2.39	15.40	55.18	" "
48489	2.98	2.06	.....	1.80	15.00	54.42	" "
47698	1.49	0.55	.....	1.55	24.35	58.37	" cake.

H. DE JONG.

49523	7.60	5.04	9.80	4.30	28.65	.....	Cocoa.
49612	7.51	6.07	10.40	4.40	27.45	.....	"
49695	7.76	5.47	10.20	6.45	26.95	.....	"

* Contains starch.

COCHRANE.

Number of Sample.	Ash.		Alkali- nity of Ash.	Mois- ture.	Fat.	Sugar	Remarks.
	Total.	Soluble.					
*50124	3.71	1.64	4.70	3.65	10.10	10.70	Cocoa. Chocolate.
50120	6.55	2.26	7.17	5.17	17.05	.....

MENIER.

46165	1.32	0.51	.....	1.24	22.45	60.00	Chocolate.
40829	1.31	0.50	.....	1.06	23.05	61.05	"

ROWNTREE.

45602	5.32	2.04	6.35	4.23	20.35	.....	Cocoa.
47694	7.74	6.40	10.40	4.80	28.00	.....	"

TETLEY.

44124	8.69	7.14	11.30	5.67	23.65	24.25	Cocoa.
38279	8.45	6.89	11.00	7.08	24.20	.....	"

TODD HUNTER.

45608	3.00	0.91	3.36	3.62	42.05	.....	Chocolate.
19354	1.32	0.49	.....	1.22	22.15	55.93	" diamond.
47869	6.12	1.62	6.25	3.05	23.70	.....	Cocoa.

VAN HOUTEN.

44125	8.25	6.75	11.15	3.34	27.55	.....	Cocoa.
49613	8.03	6.58	10.50	4.47	28.95	.....	"
38277	7.95	6.47	10.40	4.34	28.95	.....	"

38282	2.84	2.00	.....	2.15	14.75	56.08	Chocolate, Charlesworth.
*47697	0.74	0.32	.....	1.50	24.70	52.51	" Dom. Cho. Works.
38278	6.80	4.85	9.10	4.82	27.70	.....	Cocoa, Dreissen.
47016	7.01	5.50	9.15	5.42	24.45	.....	" Melior.
47692	6.08	4.45	8.10	5.71	29.70	.....	" Ridgway.
47020	8.08	6.58	10.00	4.82	26.80	.....	" Schwartz.
48606	6.67	4.93	8.70	3.95	30.55	.....	" Suchard.

* Contains starch (maize in 47697, arrowroot in 50124).

BAKERS CHOCOLATE AND COCOA.

Number of Sample.	Ash.		Alkali- nity of Ash.	Mois- ture.	Fat.	Sugar.	Remarks.
	Total.	Soluble.					
47021	3.10						Chocolate No. 1.
40161	3.11	1.27	3.8	0.76	54.1		
45007	3.05						
37367	3.01						
40826	3.17	1.27	3.8	0.76	54.1		
40526	2.90						
40528	3.10	1.15	3.6	1.02	54.4		
40529	3.12						
48611	3.26						
48612	2.91	1.1	3.5	1.95	54.4		
48614	3.18						
40608	3.26						
47606	3.32						
47023	1.65	0.52		0.90	39.5	41.2		Sweetened chocolate. Cocoa.
40167	5.16						
45001	5.80						
45005	5.65	2.07	6.8	4.02	21.5		
40823	5.47						
50122	5.21	1.85	6.4	4.26	27.0		
40521	5.10						
40522	5.19						
48083	5.22						
48610	5.74	1.80	6.9	3.50	24.8		
41121	5.35	2.00	6.4	4.58	28.0		
41123	5.06						
39034	5.65						
47888	5.18	1.78	6.3	4.41	27.9		
39033	5.75	2.34	6.8	6.05	25.2		
39038	5.53	2.29	6.7	6.05	25.5		

Egg.

47017	1.67						Cocoa.	
*37328	1.67	0.50	2.05	3.46	14.90	36.83		Homeopathic cocoa.
37360	1.66						" "	
*39035	1.82	0.63	2.15	2.90	15.10	39.70	" "	
*48492	1.58	0.50	1.95	3.33	14.25	38.33	" "	
38277	1.67						" "	
47693	1.77						Breakfast cocoa.	
40170	5.28							
37361	5.37	3.95	8.25	5.27	30.85			
39036	5.46	4.11	8.30	5.09	31.10			
50121	5.41							
48208	5.41	4.02	8.10	4.76	30.40			
48220	5.45							
48006	5.45							
48009	5.52	4.13	8.15	4.45	31.25			
40164	0.96	0.38		1.37	22.60	59.25		Chocolate.
37364	3.01	0.97		2.43	17.90	41.31		
37365	1.27							" "
39010	1.26							" "
50128	1.25							" "
48213	1.22	0.42		1.10	23.05	59.25	" powder.	
48225	1.18						" "	
48086	1.24	0.41		1.05	23.80	57.14	" "	
48005	1.28						" "	
48613	0.92	0.33		1.11	22.50	60.90	" diamond.	
45603	5.48						Cocoa.?	
40821	5.46						" ?	

* Contains starch (arrowroot) stated as "Other ingredients" on the label.

LOWNEY'S.

Number of Sample.	Ash.		Alkalinity of Ash.	Moisture.	Fat.	Sugar.	Remarks.
	Total.	Soluble.					
47025	2.98	0.98	3.69	2.06	53.2	.....	Chocolate.
37366	3.35	1.40	3.85	0.90	53.0	.....	"
40827	3.68	1.34	4.04	0.41	51.35	.....	"
48615	3.21	.....	.....	.....	.....	.....	"
49007	3.31	.....	.....	.....	.....	.....	"
46168	5.23	2.11	6.45	5.08	22.75	.....	Breakfast cocoa.
45604	5.43	2.07	6.55	4.19	22.95	.....	"
37359	5.82	.....	.....	.....	.....	.....	"
37362	5.50	2.26	6.65	3.79	23.05	.....	Cocoa.
40825	5.63	.....	.....	.....	.....	.....	"
48608	5.14	.....	.....	.....	.....	.....	"
49614	5.50	2.29	6.80	4.17	20.60	.....	"
45609	1.14	0.43	.....	1.12	25.60	58.9	Diamond chocolate.
37363	1.25	0.44	.....	1.10	23.80	56.38	"
39041	2.87	0.88	.....	1.10	16.20	40.60	Chocolate.
39042	2.65	0.81	.....	2.31	16.00	49.75	"
39043	2.92	.....	.....	.....	17.15	45.38	"
50126	3.95	1.04	.....	2.11	15.85	43.42	"
44126	3.04	1.02	.....	1.76	16.30	43.87	" (premium).
44128	2.59	0.88	.....	1.78	16.20	47.95	"
44129	2.64	0.88	.....	1.71	15.35	48.10	"
44130	3.20	1.07	.....	1.87	16.75	42.37	"
48490	2.40	0.90	.....	1.91	18.20	46.30	"
38281	2.66	0.95	.....	2.55	15.20	47.80	"

MANUFACTURER UNKNOWN.

49349	5.09	3.07	6.60	3.95	24.05	.....	Cocoa.
*49350	4.79	1.74	5.20	2.95	6.00	.....	"
†49351	13.89	2.91	11.40	4.00	3.70	.....	"
49356	5.19	1.58	5.95	4.55	25.50	.....	Chocolate.

COWAN'S.

47018	5.24	.....	.....	.....	.....	.....	Cocoa.
46166	5.05	.....	.....	.....	.....	.....	"
40824	5.30	.....	.....	.....	.....	.....	"
50123	5.47	1.82	6.40	4.49	22.95	23.70	"
49524	5.34	1.86	6.20	4.40	23.25	.....	"
49534	5.30	.....	.....	.....	.....	.....	"
49348	5.50	.....	.....	.....	.....	.....	"
47882	5.59	.....	.....	.....	.....	.....	"
47891	5.39	.....	.....	.....	.....	.....	"
47867	5.26	1.69	6.20	4.17	25.25	.....	"
48080	5.19	.....	.....	.....	.....	.....	"
44122	5.25	.....	.....	.....	.....	.....	"
38276	5.64	1.84	6.30	4.13	23.90	.....	"
47091	5.05	.....	.....	.....	.....	.....	"
46163	4.00	.....	.....	.....	.....	.....	Chocolate.
45610	3.38	1.35	3.81	1.23	52.60	.....	"
40828	4.15	1.45	4.91	2.27	35.25	.....	"
49530	4.24	.....	.....	.....	.....	.....	"
49355	4.19	1.42	4.90	1.26	34.75	.....	"
49609	3.09	1.17	3.61	1.51	54.05	.....	"
47699	3.86	1.48	4.98	4.60	34.10	.....	"
*48491	2.34	0.95	3.40	2.89	11.20	45.56	"

* Contains starch. † Excess husk.

BULLETIN No. 243—COCOAS

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—

1912.							
Feb. 19	Cocoa . . .	47016	Wentzells, Ltd., Halifax, N.S.	3 tins.	45	Melior, Holland.	Mfrs.
" 20	"	47017	City Provision Store, Halifax, N.S.	3 " .	30	J. S. Fry, London, Eng.	"
" 20	"	47018	W. J. Forristall & Co., Halifax, N.S.	3 " .	30	Cowar Co., Toronto.	Unknown
" 20	"	47019	John P. Mott & Co., Halifax, N.S.	3 " .	Nil	Vendors. . . . .	. . . . .
Mar. 6	"	47020	W. H. Schwartz & Sons, Halifax, N.S.	3 " .	25	" . . . . .	. . . . .
Feb. 19	Chocolate. . .	47021	Wentzells, Ltd., Halifax, N.S.	½ lb. .	25	W. Baker, Dorchester, Mass.	Mfrs.
" 20	"	47022	T. H. Brown, Halifax, N.S.	½ " . .	20	J. P. Mott & Co., Halifax, N.S.	J. P. Crowe & Co., Halifax.
" 20	"	47023	W. J. Hopgood & Sons, Halifax, N.S.	½ " . .	18	W. Baker, Dorchester, Mass.	Mfrs.
" 21	"	47024	John P. Mott & Co., Halifax, N.S.	½ " . .	Nil	Vendors . . . . .	. . . . .
" 21	"	47025	J. F. Crowe & Co., Ltd., Halifax, N.S.	½ " . .	17	W. M. Lowney Co., Montreal.	Mfrs.

DISTRICT OF PRINCE EDWARD ISLAND—

Feb. 8	Chocolate. . .	46161	Beer & Goff, Charlottetown, P.E.I.	3 pks.	75	Walter Baker & Co., Ltd., Dorchester, Mass.	. . . . .
" 8	"	46162	" " " "	3 " .	60	Jno. P. Mott & Co., Halifax, N.S.	. . . . .
" 9	"	46163	John McKenna, Charlottetown, P.E.I.	3 " .	30	Cowan & Co., Ltd., Toronto.	. . . . .
" 15	"	46164	Brace & McKay Co., Ltd., Summerside, P.E.I.	3 " .	24	J. S. Fry & Sons, Bristol & London, Eng.	. . . . .
" 19	"	46165	Sanderson & Co., Charlottetown, P.E.I.	3 " .	36	M. Menier. . . . .	. . . . .
" 7	Cocoa	46166	Stewart & Son, Charlottetown, P.E.I.	3 " .	30	The Cowan Co., Ltd., Toronto.	. . . . .
" 7	"	46167	" " " "	3 " .	45	The Walter Baker Co., Ltd., Montreal	. . . . .
" 8	"	46168	Beer & Goff, Charlottetown, P.E.I.	3 " .	45	The Walter M. Lowney Co., Montreal.	. . . . .
" 9	"	46169	John McKenna, Charlottetown, P.E.I.	3 " .	30	Jas. Epps & Co., Ltd., London, Eng.	. . . . .
" 15	"	46170	Brace-McKay Co., Ltd., Summerside, P.E.I.	3 " .	45	J.S. Fry & Sons, Ltd., Bristol, Eng.	. . . . .

BULLETIN No. 243—COCOAS

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 NEW BRUNSWICK—

1912.							
Feb. 6	Cocoa	45601	Dearborn & Co., St. John, N.B.	3 tins.	33	Walter Baker & Co., Ltd., Montreal.	
" 14	"	45602	Wm. Hawker & Son, St. John, N.B.	½ lb.	45	Rowntree, York, Eng.	
Mar. 5	"	45603	Yerxa Grocery Store, Fredericton, N.B.	3 cans	30	J. S. Fry & Sons, Ltd., Bristol, Eng.	
" 13	"	45604	Reed & Co., Ltd., Moncton, N.B.	3 "	30	The Walter M. Lowney Co., Ltd., Montreal.	
" 14	"	45605	J. D. Paulin, Newcastle, N.B.	3 "	45	Walter Baker & Co., Montreal.	
Feb. 7	Chocolate	45606	Walter Gilbert, St. John, N.B.	½ lb.	20	Jno. P. Mott & Co., Halifax, N.S.	
" 7	"	45607	McPherson Bros., St. John, N.B.	½ "	20	Walter Baker & Co., Ltd., Dorchester, Mass.	
Mar. 6	"	45608	Borden & King, Woodstock, N.B.	3 pks.	30	Todhunter, Mitchell & Co., Toronto.	
" 13	"	45609	Reed & Co., Ltd., Moncton, N.B.	3 bars	21	The W. M. Lowney Co., Montreal.	
" 14	"	45610	George Stables, Newcastle, N.B.	½ lb.	25	The Cowan Co., Ltd., Toronto.	

DISTRICT OF QUEBEC—

Feb. 6	Cocoa	37358	Arthur Rinfret, 414 Rue St. Joseph, Quebec.	½ lb.	30	J. S. Fry & Son, Bristol.	J. B. Bedard, Quebec.
" 7	"	37359	Arthur Drolet, 714 Rue St. Valier, Quebec.	½ "	30	Lowney's Co., Montreal.	Mfrs.
" 7	"	37360	" " " "	½ "	30	Fry & Sons, Bristol.	Langlois & Paradis.
" 8	"	37361	O. LaCroix, 19 Rue St. Joseph, Quebec.	½ "	36	" " "	Mfrs.
" 8	"	37362	" " " "	½ "	30	Lowney's, Montreal.	
" 7	Chocolate	37363	Arthur Drolet, 714 Rue St. Valier, Quebec.	½ "	39	" " "	Mfrs.
" 7	"	37364	" " " "	½ "	30	J. S. Fry & Sons, Bristol.	J. B. Renaud & Co.
" 8	"	37365	O. LaCroix, 19 Rue St. Joseph, Quebec.	½ "	45	" " "	Mfrs.
" 8	"	37366	" " " "	½ "	30	Lowney's, Montreal.	"
" 8	"	37367	" " " "	½ "	25	Baker, Dorchester, Eng.	"

BULLETIN No. 243—COCOAS

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 ST. HYACINTHE—

1912.							
Mar. 25	Cocoa	39033	H. Belisle, St. Hyacinthe	1 box.	25	W. Baker & Co., Ltd.	
Feb. 19	"	39034	N. Larivie, Farnham	3 "	39	Bakers	Hudson & Orsali Montreal.
" 20	"	39035	L. Bissonnet, St. Jean	3 "	30	J. S. Fry & Sons, Ltd.	
" 20	"	39036	D. Cussan, St. Jean	½ lb.	25	"	
Mar. 6	"	39037	Davignon & Pratte, Knowlton.	3 boxes	25	J. Epps & Co., Ltd.	
" 7	"	39038	The Hub, Cowansville, P.Q.	½ lb.	25	W. Baker & Co., Ltd.	
Feb. 19	Chocolate	39040	E. Bienvonn, Farnham	3 boxes	36	J. S. Fry & Sons, Ltd.	
" 22	"	39041	Lemay & Fiset, Sherbrooke	3 "	30	Lowney, Montreal	
Mar. 6	"	39042	N. O. Rockwell, Waterloo	½ lb.	25	"	
" 19	"	39043	P. Thibault, Victoriaville	3 boxes	30	"	

DISTRICT OF MONTREAL—

Feb. 14	Cocoa	40821	M. Schwartz, 100 St. Catherine St., Montreal.	3 tins.	25	J. S. Fry & Son	
" 14	"	40822	E. Martin, 203 Laurier Ave., W., Montreal.	3 "	25	Jas. Epps & Co., Ltd.	
" 11	"	40823	" " "	3 "	35	W. Baker & Co., Ltd. Montreal.	
" 15	"	40824	Wilfrid Brouillet, 77 University St., Montreal.	3 "	30	The Cowan Co., Ltd. Toronto.	
" 15	"	40825	S. Dever & Son, 107 Colonial Ave., Montreal.	3 "	45	Walter M. Lowney	
" 15	Chocolate	40826	Wilfrid Brouillet, 77 University St., Montreal.	3 cakes	10	W. Baker Co., Ltd.	
" 15	"	40827	S. Dever & Son, 107 Colonial Ave., Montreal.	3 "	40	W. M. Lowney Co.	
" 15	"	40828	" " "	3 "	30	The Cowan Co., Ltd.	
" 15	"	40829	L. Beaudoin, 21 Vitre St., Montreal.	3 "	45	Meniers	
" 16	"	40830	L. S. Guay, 124 Sherbrooke St., W., Montreal.	3 "	30	Jno. P. Mott & Co.	

AND CHOCOLATES.

RESULTS OF ANALYSIS.										No. of Sample.
On Air-Dry Original Material.										
Ash.		Alkalinity of Ash ccs. $\frac{1}{10}$ Acid per 1 gram Chocolate and Cocoa.	Moisture.	Fat.		Cane Sugar.	Total Ash calculated to Fat and Moisture Free Sample.	Total Ash calculated to Fat, Moisture and Sugar Free Sample.	Percentage of Ash Soluble in Water.	
Total.	Soluble in Water.			By Centri- fuge.	By Contin- uous Extrac- tion 16 hrs.					

Inspector's Report.
(Is not an expression
of opinion).

J. C. ROULEAU, INSPECTOR.

.....	5.75	2.34	6.77	6.05	25.15	.....	.....	8.35	41	39033
.....	5.65	.....	.....	.....	.....	.....	.....	.....	.....	39034
.....	1.82	0.63	2.15	2.90	15.10	.....	39.70	4.30	35	39035
.....	5.46	4.11	8.30	5.09	31.10	.....	.....	8.56	75	39036
.....	1.56	.....	.....	.....	.....	.....	.....	.....	.....	39037
.....	5.53	2.29	6.70	6.05	25.50	.....	.....	8.08	41	39038
.....	1.26	.....	.....	.....	.....	.....	.....	.....	.....	39040
.....	2.87	0.88	.....	1.10	16.20	.....	46.60	7.95	31	39041
.....	2.65	0.81	.....	2.31	16.00	.....	49.75	8.30	31	39042
.....	2.92	.....	.....	.....	17.15	.....	45.38	.....	.....	39043

J. J. COSTIGAN, INSPECTOR.

.....	5.46	.....	.....	.....	.....	.....	.....	.....	.....	40821
.....	1.56	0.61	2.05	3.71	22.70	.....	31.56	3.71	41	40822
.....	5.47	.....	.....	.....	.....	.....	.....	.....	.....	40823
.....	5.30	.....	.....	.....	.....	.....	.....	.....	.....	40824
.....	5.63	.....	.....	.....	.....	.....	.....	.....	.....	40825
.....	3.17	1.27	3.78	0.76	54.05	.....	.....	7.01	40	40826
.....	3.68	1.34	4.04	0.41	51.35	.....	.....	7.62	36	40827
.....	4.15	1.45	4.91	2.27	35.25	.....	.....	6.61	35	40828
"Chocolat Menier".....	1.31	0.50	.....	1.06	23.05	.....	61.05	8.83	38	40829
"Motts Elite".....	3.01	1.32	3.80	4.21	54.60	.....	.....	4.92	44	40830

BULLETIN No. 243—COCOAS

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 OTTAWA—

1912.								
Feb.	3	Cocoa	50121	Seely & Stewart, Bank st., Ottawa.	3 tins.	30	J. S. Fry & Son, Ltd., England.	Mfrs.....
"	5	"	50122	Williams & Vanluven, Smith's Falls.	3 "	39	W. Baker & Co., Ltd., Dorchester, Mass.	Robertson, Nicolle, & Co., Smith's Falls.
"	19	"	50123	Jos. P. Valiquette, Dalhousie st., Ottawa.	3 "	30	The Cowan Co., Ltd., Toronto.	S. Major, Ltd., Ottawa.
"	19	"	50124	L. Malette, Dalhousie st., Ottawa.	3 lb.	20	C. H. Cochrane & Co., Ottawa.	Mfrs.....
"	19	"	50125	J. Mundy, St. Patrick st., Ottawa.	3 tins.	30	Jas. Epps & Co., Ltd., London, Eng.	Unknown
"	3	Chocolate...	50126	Murphy - Gamble, Ltd., Ottawa.	3 "	45	Lowrey's, Montreal.	Mfrs.....
"	3	"	50127	Bate & Co., Sparks st., Ottawa.	3 "	75	Cadbury, England..	Crosse & Blackwell, London, Eng.
"	3	"	50128	A. L. Pinard & Sons, Rideau st., Ottawa.	3 "	47	J.S.Fry & Sons, Ltd., Bristol, Eng.	Mfrs.....
"	19	"	50129	L. Malette, Dalhousie st., Ottawa.	3 lb.	30	C. H. Cochrane & Co., Ottawa.	"
"	20	"	50130	Bryson - Graham, Ltd., Ottawa.	3 tins.	75	Cadbury, England..	"

DISTRICT OF KINGSTON—

Feb.	5	Cocoa	49521	W. J. Ne-bit, Kingston..	3 pks.	45	Baker, Ltd., Dorchester, Mass.	.....
"	6	"	49522	A. Glover, Kingston.....	3 "	45	" "	.....
"	6	"	49523	J. Gilbert, Kingston.....	3 "	40	H. De Jong, Wormerveer, Holland.	.....
"	7	"	49524	Thompson Bros., Belleville	3 "	30	Cowan's, Toronto....	.....
"	5	Chocolate...	49526	Wm. J. Arnul, Alfred st., Kingston.	3 "	38	Baker, Ltd., Dorchester, Mass.	.....
"	5	"	49527	W. H. Medley, Johnston st. Kingston.	3 "	30	J. P. Mott, Halifax.	.....
"	7	"	49528	J. B. Harker, Belleville..	3 "	75	Baker, Ltd., Dorchester, Mass.	.....
"	8	"	49529	J. E. Lillico, Peterboro..	3 "	75	" "	.....
"	8	"	49530	A. Pearson, Peterboro....	3 "	30	Cowan's, Toronto....	.....
"	7	Cocoa	49534	S. Fort, Port Hope.....	3 "	30	" "	.....

BULLETIN No. 243—COCOAS

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 TORONTO—

1912.								
Feb.	8	Cocoa	49347	A. C. Tresham, 266 King St. West, Hamilton.	3 pks.	30	Motts	Unknown
"	14	"	49348	The Cowan Co., Ltd., Sterling Road, Toronto.	3 "	23	Vendors .....	.....
"	15	"	49349	T. J. Medland, Ltd., 118 King St. East, Toronto.	1/2 lb.	13	.....	.....
"	16	"	49350	J. G. Pond, Queen St. West, Toronto.	1/2 "	13	.....	J. M. Lowes Co., Ltd., Toronto.
"	21	"	49351	Prentice & Sproule, Collingwood.	1/2 "	13	.....	Lang & Bro., Collingwood.
"	7	Chocolate...	49352	The Arthur Bell Co., 447 Barton St. East, Hamilton.	3 cakes	15	Jno. P. Mott & Co., Halifax.	.....
"	13	"	49354	D. Cameron, 164 Main St. East, Toronto.	3 pks.	15	Todhunter, Mitchell & Co., Toronto.	.....
"	14	"	49355	The Cowan Co., Ltd., Sterling Road, Toronto.	3 "	22	Vendors .....	.....
"	15	"	49356	J. M. Evans & Co., 1743 Dundas St., Toronto.	1/2 lb.	20	.....	Robertson Bros., Toronto.

DISTRICT OF LONDON—

Feb.	19	Cocoa	47882	Jones & May, Exeter	3 pks.	30	Cowan & Co., Ltd., Toronto.	.....
"	19	Chocolate...	47887	J. A. Stewart, Exeter	3 "	30	Pure Gold Mfg. Co., Toronto.	Pure Gold Chocolate.
"	19	Coc	47898	"	3 "	38	W. Baker Co., Ltd., Dorchester, Mass.	Labelled Webbs Pure Cocoa Powder.
"	20	"	47897	Geo. McLennon & Co., Clinton.	3 "	30	Cowan & Co., Ltd., Toronto.	.....
"	21	"	48208	McGuire & Co., Seaforth.	3 "	45	J. S. Fry & Sons, Bristol, Eng.	Fry's Pure Breakfast Cocoa.
"	21	Chocolate..	48213	T. S. Blues, Seaforth	3 "	45	"	Fry's Chocolate Powder.
"	22	C	48220	Knechtel Grocery Co., Stratford.	3 "	45	" .....	.....
"	24	Chocolate..	48225	W. R. Butcher, St. Marys	3 "	30	"	Fry's Chocolate Powder.

AND CHOCOLATES.

Inspector's Report.
(Is not an expression
of opinion).

Results of Analysis.											
On Air-Dry Original Material.											
Total.	Ash.	Soluble in Water.	Alkalinity of Ash excess of Acid per 1 gram Chocolate and Cocoa.	Fat.				Total Ash calculated to Fat and Moisture Free Sample.	Total Ash calculated to Fat, Moisture and Sugar Free Sample.	Percentage of Ash Soluble in Water.	No. of Sample.
				Moisture.	By Centri- fuge.	By Contin- uous Extrac- tion 16 hrs.	Cane Sugar.				

H. J. DAGGER, INSPECTOR.

	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	
.....	5.70	2.55	7.05	6.15	18.80	19.35	.....	7.60	.....	45	49347
.....	5.50										49348
Pure Cocoa imported by vendors.	5.09	3.07	6.60	3.95	24.05	.....	.....	7.08	.....	60	49349
.....	4.79	1.74	5.20	2.95	6.00	6.10	.....	5.26	.....	36	49350
.....	13.89	2.91	11.40	4.00	3.70	4.20	.....	15.05	.....	21	49351
"Double Diamond" Choco- late.	1.07	0.52	.....	0.97	22.10	.....	63.32	.....	7.86	38	49352
Vienna Sweet Diamond Chocolate.	1.32	0.49	.....	1.22	22.15	.....	55.93	.....	6.37	37	49354
Cowan's Perfection Choco- lates.	4.19	1.42	4.90	1.26	34.75	.....	.....	6.54	.....	34	49355
.....	5.19	1.53	5.95	4.55	25.50	.....	.....	7.42	.....	30	49356

INO. TALBOT, ACTING INSPECTOR.

.....	5.29										47882
Pure Gold Chocolate	+										47887
Labelled Wink's Pure Cocoa Powder.	5.18	1.78	6.30	4.41	27.85	.....	.....	7.65	.....	34	47888
.....	5.39										47891
Fry's Pure Breakfast Cocoa	5.41	4.02	8.10	4.76	30.45	31.30	.....	8.44	.....	73	48208
Fry's Chocolate Powder	1.22	0.42	.....	1.10	23.05	.....	59.25	.....	7.35	34	48213
.....	5.45										48220
Fry's Chocolate Powder	1.18										48225

* Contains starch. + Contains excess of bark. ‡ Chocolate Jelly Pudding coll, by mistake.
30594-2

BULLETIN No. 243—COCOAS

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 WINDSOR							
1912.							
Feb. 12	Cocoa	47867	W. H. Tricker, Sarnia	3 pks	30	Cowan Co., Ltd., Toronto.	
" 12	"	47869	R. Wanless, Sarnia	"	30	Tothunter, Toronto.	
" 6	"	48080	John Diprose, London, Ont.	"	30	Cowan Co., Ltd., Toronto.	
" 7	"	48083	Wm. Hayes, London, Ont.	"	45	Walter Baker Co., Ltd.	
" 7	Chocolate.	48086	Thos. Shaw, London, Ont.	"	30	J. S. Fry & Sons, Bristol, Eng.	
" 8	"	48095	Teeple's Market, London, Ont.	"	30	" "	
" 8	Cocoa	48096	"	"	30	" "	
DISTRICT OF MANITOBA—							
Feb. 20	Cocoa	48606	A. Macdonald & Co., Portage Ave., Winnipeg.	"	75	P. H. Suchards, Neuchatel, Suisse.	
" 20	"	48607	Geo. Nixon & Co., Portage Ave., Winnipeg.	"	75	Calbury, England.	
" 20	"	48608	"	"	75	Lowney & Co., Montreal.	
" 21	"	48609	N. Trimble, Portage Ave., Winnipeg.	"	45	Fry & Sons, Bristol, Eng.	
" 21	"	48610	"	"	45	Baker & Co., Ltd., Montreal.	
" 21	Chocolate	48611	"	"	75	W. Baker & Co., Ltd., Dorchester, Mass.	
" 21	"	48612	H. G. Weldon & Co., Portage Ave., Winnipeg.	"	45	" "	
" 21	"	48613	The Codville Co., Winnipeg.	"	13	J. S. Fry & Sons, Ltd., London, Eng.	
" 21	"	48614	Foley Bros., & Larsen, Winnipeg.	"	50	W. Baker Co., Ltd., Dorchester, Mass.	
" 21	"	48615	"	"	50	Lowney Co., Ltd., Montreal.	
DISTRICT OF CALGARY—							
"	Cocoa	44121	Capitol Mercantile Co., Edmonton.	3 pks.	45	Walter Baker & Co., Ltd., Montreal.	
"	"	44122	Hudson Bay Co., Edmonton.	3 cans	30	The Cowan Co., Toronto.	
" 7	"	44123	The Acme Co., Edmonton	3 "	45	Walter Baker & Co., Dorchester, Mass.	
" 7	"	44124	Chas. W. Campbell, Edmonton.	3 "	75	Jos. Tetley & Co., Ltd., London, Eng.	
" 7	"	44125	"	3 "	80	C. J. Van Houten & Son, Weesp, Holland.	

AND CHOCOLATES.

Inspector's Report. (Is not an expression of opinion.)	RESULTS OF ANALYSIS.										No. of Sample.
	On Air-Dry Original Material.										
	Ash.			Fat.				Total Ash calculated to Fat and Moisture Free Sample.	Total Ash calculated to Fat, Moisture and Sugar Free Sample.	Percentage of Ash Soluble in Water.	
	Total.	Soluble in Water.	Alkalinity of Ash cc.s. 1% Acid per gram; Chocolate and Cocoa.	Moisture.	By Centri- fuge.	By Continuous Extraction, 16 hrs.	Cane Sugar.				

JNO. TALBOT, INSPECTOR.

	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	
Perfection Cocoa	5.26	1.69	6.20	4.17	25.25			7.45		32	47867
.....	6.12	1.62	6.25	3.05	23.70			8.35		26	47869
.....	5.19										48080
Breakfast Cocoa	5.22										48083
.....	1.24	0.41		1.05	23.80		57.14		6.89	33	48086
Fry's Chocolate Powder...	1.28										48095
Pure Breakfast Cocoa....	5.45										48096

A. C. LARIVIERE, INSPECTOR.

"Ibis" Brand.....	6.67	4.93	8.70	3.95	39.55			10.17		74	48606
.....	8.20	6.72	10.05	3.90	27.20	28.15		11.00		82	48607
.....	5.14										48608
.....	5.52	4.13	8.15	4.45	31.25			8.39		75	48609
.....	5.74	1.89	6.85	3.50	24.80	25.30		8.01		33	48610
.....	3.26										48611
.....	2.93	1.11	3.50	1.95	54.35			6.70		38	48612
Fry's Diamond Sweet Cho- colate.....	0.92	0.33		1.11	22.50		60.90		5.94		48613
.....	3.18										48614
Lowney's Premium....	3.24										48615

R. W. FLETCHER, INSPECTOR.

.....	5.35	2.00	6.40	4.58	27.95			7.93		37	44121
.....	5.25										44122
.....	5.06										44123
.....	8.69	7.14	11.30	5.67	23.65	24.25		12.30		82	44124
.....	8.25	6.75	11.11	3.34	27.55			11.94		82	44125

BULLETIN No. 243 COCOAS

Date of Collection.	Nature of Sample.	Name and Address of Vendor.	Quantity.	Cost.	Name and Address of Manufacturer or Furnisher as given by the Vendor.	
					Manufacturer.	Furnisher.

DISTRICT OF CALGARY—

1912.						
Mar. 6	Chocolate.	44126 Capitol Mercantile Co., Edmonton.	1 tin	50	Lowney's, Montreal.	
" 7	"	44127 Hudson Bay Co., Edmonton.	1 "	25	Cadbury, Bourneville, Eng.	
" 8	"	44128 Haller & Aldridge, Edmonton.	3 tins	50	Lowney's, Montreal.	
" 8	"	44129 J. H. Morris Co., Ltd., Edmonton.	1 tin	25	"	
" 8	"	44130 City Grocery, Edmonton.	1 "	25	"	

DISTRICT OF NELSON—

Feb. 13	Chocolate.	48489 England & Sons, Kamloops.	$\frac{1}{2}$ lb.	25	D. Ghirardette, San Francisco.	
" 13	"	48490 " " "	3 tins	30	W. M. Lowney Co., Montreal.	
" 13	Cocoa	48491 " " "	$\frac{1}{2}$ lb.	20	The Cowan Co., Toronto.	
" 13	"	48492 " " "	"	30	J. S. Fry & Sons, Bristol, Eng.	
" 13	Chocolate.	49607 Stevens & Allan, Kamloops.	$\frac{1}{2}$ "	25	W. M. Lowney Co., Montreal.	
" 13	"	49608 " " "	$\frac{1}{2}$ "	25	W. Baker & Co., Dorchester, Mass.	
" 13	"	49609 " " "	$\frac{1}{2}$ "	25	The Cowan Co., Toronto.	
" 13	Cocoa	49612 Wilson Grocery Co., Kamloops.	$\frac{1}{2}$ "	35	H. DeLong, Wormer, veer, Holland.	
" 13	"	4 6.3 " " "	$\frac{1}{2}$ "	40	C. J. Van Houten & Son, Weesp, Holland.	
" 13	"	49614 " " "	$\frac{1}{2}$ "	35	W. M. Lowney Co., Montreal.	

DISTRICT OF VANCOUVER—

Feb. 13	Cocoa	38275 J. Graham, Milner, B.C.	3 pds.	30	Fry & Co., London, Eng.	
" 13	"	38276 Burrows & Cameron, Cloverdale, B.C.	$\frac{1}{2}$ lb.	30	Cowans, Ltd., Toronto.	
" 13	"	38277 H. V. Parr, Cloverdale, B.C.	$\frac{1}{2}$ "	35	Van Houten & Co., Rotterdam.	
" 14	"	38278 Lillie's Cash Grocery, Chilliwack, B.C.	$\frac{1}{2}$ "	50	A. Dreissen, Rotterdam.	
" 14	"	38279 B. T. Malcolm, Chilliwack, B.C.	3 tins	75	Jos. Tetley & Co., London, Eng.	

AND CHOCOLATES.

Inspector's Report.
(Is not an expression
of opinion).

RESULTS OF ANALYSIS.

On Air-Dry Original Material.											
Total	Ash.		Alkalinity of Ash as % Acid per 1 gram Chocolate and Cocoa.	Moisture.	Fat.			Total Ash calculated to Fat and Moisture Free Sample.	Total Ash calculated to Fat, Moisture and Sugar Free Same %.	Percentage of Ash Soluble in Water.	No. of Sample.
	Soluble in Water.				By Centri- fuge.	By Contin- uous Extrac- tion 16 hrs.	Cane Sugar.				

Concluded.

	p. c.	p. c.		p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.
.....	3.04	1.02		1.78	16.30		43.87		7.98	33 44126
.....	1.65	1.04		1.01	7.35		69.50		7.46	63 44127
.....	2.59	0.88		1.78	16.20		47.05		7.60	34 44128
.....	2.64	0.88		1.71	15.33		48.10		7.58	33 44129
.....	3.20	1.07		1.87	16.75		42.37		8.20	33 44130

THOS. PARKER, INSPECTOR.

.....	2.98	2.06		1.80	15.00		54.42		10.36	69 48489
.....	2.40	0.90		1.91	18.20		46.90		7.15	37 48490
.....	2.31	0.95	3.40	2.89	11.20		45.56		5.80	41 48491
.....	1.58	0.50	1.95	3.33	14.25		38.33		3.60	22 48492
.....	3.31									49607
.....	2.26									49608
.....	3.09	1.17	3.61	1.51	54.05			6.94		38 49609
.....	7.51	6.07	10.40	4.40	27.45			11.10		80 49612
.....	8.05	6.58	10.50	4.47	28.95			12.10		82 49613
.....	5.59	2.29	6.80	4.17	20.60			7.43		41 49614

J. F. POWER, INSPECTOR.

Manufactured with Cocoa carefully selected for quality and flavour. Guaranteed.	1.67									38275
Absolutely pure.	5.64	1.84	6.30	4.13	23.90			7.84		33 38276
Guaranteed pure soluble Cocoa.	7.95	6.47	10.40	4.34	28.95			11.92		81 38277
.....	6.80	4.85	9.10	4.82	27.70			10.08		71 38278
Absolutely pure and soluble	8.45	6.87	11.00	7.08	24.20			12.30		81 38279

BULLETIN No. 243—COCOAS

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 VANCOUVER—							
1912.							
Feb. 15	Chocolate.	38280	Des Brisay, General Stores, Mission Jct., B.C.	1 lb.	25	D. Chirardalli, San Francisco, Cal.	
" 15	"	38281	C. A. Welsh, New Westminster, B.C.	1/2 "	25	Lowney & Co., Toronto.	
" 15	"	38282	London Muffin Co., Snythe St., Vancouver, B.C.	1/2 "	30	C. Charlesworth, Water St., Van.	
DISTRICT OF VICTORIA—							
Feb. 27	Cocoa.	47691	Windsor Grocery Co., Victoria, B.C.	3 pks	30	The Cowan Co., Ltd., Toronto.	
" 28	"	47692	The West End Grocery Co., Ltd., Victoria, B.C.	3 "	75	Ridgways, Ltd., London, Eng.	
" 29	"	47693	D. H. Ross, "	3 "	25	J. S. Fry, London, Eng.	
Mar. 1	"	47694	Copas & Young, Victoria, B.C.	3 "	75	Rowantree & Co., Ltd., York, Eng.	
" 1	"	47695	J. M. B. Hall, Victoria, B.C.	1/2 lb.	30	H. D. Jong, Wormerveer, Holland.	
" 27	Chocolate.	47696	Windsor Grocery Co., Victoria, B.C.	1 "	50	Walter Baker & Co., Dorchester, Mass.	
" 28	"	47697	The West End Grocery Co., Ltd., Victoria, B.C.	1 "	35	Dom. Chocolate Works, Toronto.	
" 29	"	47698	D. H. Ross & Co., Victoria, B.C.	1 "	35	D. Ghirardelli, San Francisco, Cal.	
Mar. 1	"	47699	Copas & Young, Victoria, B.C.	1/2 "	25	The Cowan Co., Ltd., Toronto.	
" 6	"	47700	Harrison & McDonald, Victoria, B.C.	1/2 "	25	D. Ghirardelli, San Francisco, Cal.	

AND CHOCOLATES.

RESULTS OF ANALYSIS.

Inspector's Report.
(Is not an expression
of opinion).

On Air-Dry Original Material.											
Ash.		Alkalinity of Ash cc. s. 10 Acid per 1 gram Chocolate and Cocoa.	Moisture.	Fat.			Cane Sugar.	Total Ash calculated to Fat and Moisture Free Sample.	Total Ash calculated to Fat, Moisture and Sugar Free Sample.	Percentage of Ash Soluble in Water.	No. of Sample.
Total.	Soluble in Water.			By Centri- fuge.	By Contin- uous Extrac- tion 1/2 hrs.						

Concluded.

	p.c.	p.c.		p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	
Strictly pure.....	2.77	1.96		1.92	14.20		58.50		10.91	71	38280
Absolutely pure.....	2.66	0.95		2.55	15.20		47.80		7.72	36	38281
.....	2.84	2.00		2.15	14.75		56.08		10.51	70	38282

D. O'SULLIVAN, INSPECTOR.

.....	5.05										47691
"Ridgways".....	6.08	4.45	8.10	5.71	29.70				9.41	73	47692
Frys.....	1.77										47693
Rowantrees.....	7.74	6.40	10.40	4.80	28.00				11.52	83	47694
De Jong's.....	7.76	5.47	10.20	6.45	26.95				11.65	70	47695
.....	3.82										47696
Canadian Beaver Chocolate	0.74	0.32		1.50	24.70		52.54		3.48	43	47697
"Eagle" Brand.....	1.49	0.55		1.55	24.35		58.37		9.60	37	47698
"Cowans Perfection".....	3.86	1.48	4.98	4.60	34.10				6.30	38	47699
Ground Chocolate.....	3.02	2.05		2.89	15.40		55.18		11.38	67	47700

