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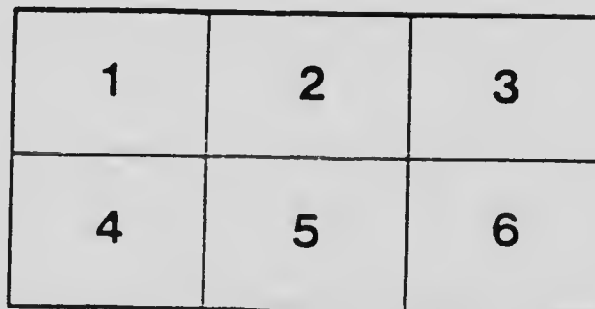
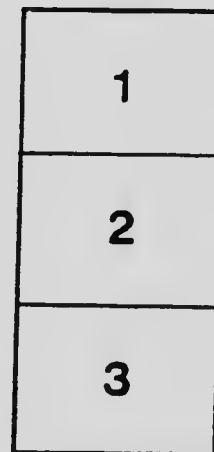
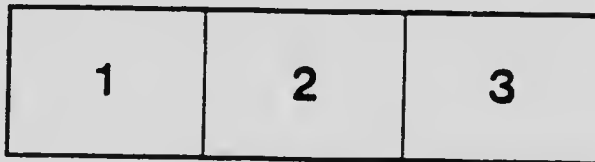
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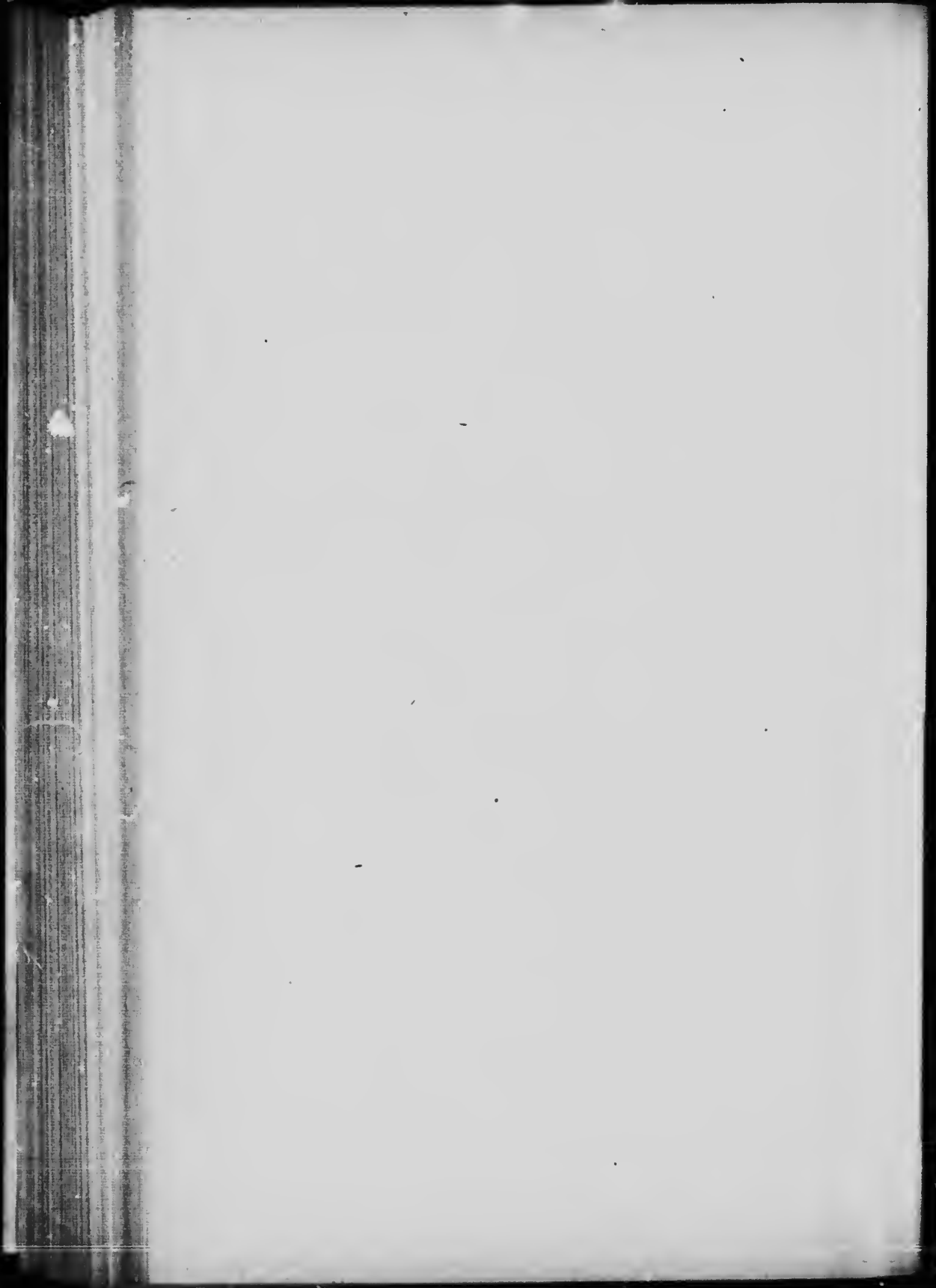
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LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA

BULLETIN No. 341

HOUSEHOLD AMMONIA



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 notes. For convenience of reference these notes will be numbered in series.

A. MCGILL,
Chief Analyst.

LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA

BULLETIN No. 341

HOUSEHOLD AMMONIA

OTTAWA, June 15, 1916.

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

SIR,—Of late years Ammonia has come to be largely in use in the household, as a detergent and for the convenience of persons in whose hands the strong solution of ammonia would be attended with danger, manufacturers have placed on the market a dilute ammonia under the name of Household Ammonia, which finds very extensive sale. For the most part, this article is simply a dilution with water of the strong solution (Liquor Ammoniae Fortis) of the Pharmacopœia. This latter is required to contain 32.5 per cent by weight of Ammonia (NH_3). A weaker solution is also defined by the Pharmacopœia (Liquor Ammoniae) containing 10 per cent by weight of Ammonia. It may be mentioned here that the Ammonia of the French Codex contains only 20.18 per cent and the Aqua Ammoniae Fortior of the United States Pharmacopœia, 28 per cent by weight of Ammonia.

Some market samples of the article contain, in addition to Ammonia, soaps of various kinds, and other ingredients.

In January 1914, Professor J. F. Snell of Macdonald College, presented to the Canadian Section of the Society of Chemical Industry a study of Commercial Household Ammonia in Canada. (See Journal of the Society, 1914, p. 1177) and recommended that a more extended inspection of the articles be made under the Adulteration Act.

Ammonia, considered as a drug, undoubtedly comes under the purview of this Act. While Household Ammonia cannot be described as a drug in the strict sense, it has been thought well, in the interest of the public generally, to examine this article, and the present report deals with the more or less complete analysis of one hundred and sixty-two (162) samples, purchased by our inspectors as Household Ammonia, in December, January and February last.

Professor Snell reports upon the Analysis of 10 samples of clear ammonias, 5 samples of so-called cloudy Ammonias (containing soaps), and 6 samples of solid Ammonias (essentially carbonate of ammonia) and finds, for the liquid preparations, that "the household Ammonium sells wholesale at from 4 to 14 times the wholesale value of the Ammonia contained in it. The retail price is from 6 to 20 times the wholesale value of the Ammonia," and adds, "How much more economical it would be to buy commercial concentrated ammonium, and dilute it with good soft water."

There is of course a certain convenience in purchasing the article in a form ready for use, and that the average consumer is willing to pay for this service is amply evident when we consider the extensive sale of many foods in neat packages, which could be purchased at much less cost in bulk. It is however, a reasonable claim, when the purchaser asks how much in excess of its minimum market value he pays for the advantage of package, or in the case of Household Ammonia, of dilution and package. It is certainly with surprise and indignation that the purchaser learns of the six-fold increase found by Professor Snell.

With a view to establishing as far as possible, a relation between value and price of these articles I have tabulated (see Table II) the results of analysis, grouping together samples bearing the same name (Brand). On account of the difficulty attending exact measurement of containers the information given in Table II must be regarded as approximate only.

From this it is seen that one unit of Ammonia, purchased in 12 ounce bottle, costs from 1.877 of a cent (cheapest) to 12.918 cents; the average cost being about 3 cents.

In order to obtain some idea of the cost of the same quantity of Ammonia, in twelve ounce package, bottle included, I caused four samples to be purchased in Ottawa, and Hull, and found these to cost 35 cents, in each case. The Ammonia values were found to be 23.14; 22.54, 21.98 and 23.24; giving a mean value of 22.72 per cent. The value per unit, is thus found to be 1.540 cents.

It is to be noted that this is the cost of a pure Ammonia, and a less highly purified article may be purchased at a considerably lower price. In a general way it may be said that our examination of so-called Household Ammonia essentially substantiates the findings of Professor Snell, and leads to the conclusion that the consumer can effect a substantial saving, by purchasing liquid Ammonia and diluting with water to suit his purposes.

I would respectfully suggest publication of this report as Bulletin No. 341. It contains information which will be helpful to many questioners regarding possible household economies.

I remain, sir,

Your obedient servant,

A. MCGILL,
Chief Analyst.

TABLE I—BULLETIN No. 341—

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

DISTRICT OF NOVA SCOTIA—

1915.							
Dec. 29	Household Ammonia	60854	A. J. Roop, New Glasgow.	3 bots.	45	Sawyer Crystal Blue Co., Boston, Mass.	R. McGregor & Sons, New Glasgow.
" 29	"	60855	S. M. Lochhart & Co. "	3 "	35	Sultana Ltd., Montreal.	Mfr.....
" 31	"	60856	R. McNabb, Trenton, N.S.	3 "	35	Alpha Chem. Co., Berlin, Ont.	".....

DISTRICT OF PRINCE EDWARD ISLAND—

Dec. 17	Household Ammonia.	60463	Beer & Goff, Charlotte town.	3 bots.	36	Sultana Ltd. Montreal.	.....
" 17	"	60464	P. A. Smith, Charlotte town.	3 "	36	Dearborn Co., Ltd., St. John.	.....
" 17	"	60465	J. G. Passmore, Charlotte town.	3 "	30	Stuart & Foster Ltd., Toronto.	.....
" 24	"	60466	J. A. Cronin, Charlotte town.	3 "	30	Dearborn Co., Ltd., St. John.	.....
" 24	"	60467	L. C. Worthy, Charlotte town.	3 "	36	Bee Starch Co., Montreal.	.....
" 24	"	60468	J. M. McQuaid, Charlotte town.	3 "	36	Alpha Chem. Co., Berlin, Ont.	.....

DISTRICT OF NEW BRUNSWICK—

Dec. 13	Household Ammonia.	66281	W. A. Simonds, St. John.	3 bots.	30	Nat. Drug & Chem. Co., St. John.	.....
" 13	"	66282	Nat. Drug & Chem. Co., St. John.	3 "	30	Vendors .....	.....
" 13	"	66283	Dearborn & Co., St. John.	3 "	25	" .....	.....
" 21	"	66284	The Canadian Drug Co.,	3 "	30	" .....	.....
1916.							
Jan. 11	"	66285	M. E. Doohan, Fredericton	3 "	30	Dearborn & Co., St. John.	.....
" 13	"	66286	Yerxa Grocery Co., Woodstock.	3 "	25	Stuart & Foster Ltd., Toronto.	.....
Feb. 8	"	66287	W. B. McKay, Ltd., Sussex.	3 "	30	W. F. Hatheway Co., St. John.	.....
" 8	"	66288	Smith Bros., Sussex	3 "	30	Dearborn & Co., St. John.	.....
" 8	"	66289	Mrs. P. White, Moncton.	3 "	30	Baird Co., Ltd., Woodstock.	.....
" 11	"	66290	J. B. Snowball Co. Ltd., Chatham.	3 "	30	Stuart & Foster Ltd., Toronto.	.....

HOUSEHOLD AMMONIA.

Inspector's Report, (Is not an expression of opinion.)	Name of Brand.	Results of Analysis.				No. of Sample.	Remarks, and Opinion of the Chief Analyst.
		Ammonia NH ₃ .	Dissolved Solids.	Ash.	Specific Gravity.		

W. A. PETIPAS, TEMPORARY INSPECTOR.

		p. c.	p. c.	p. c.		
.....	Sawyer's.....	7.83	0.019	0.010	.....	60854
.....	Sultana.....	4.36	0.151	0.132	.....	60855
.....	Alpha Chem. Co.	3.19	0.029	0.008	.....	60856

WM. A. WEEKS, INSPECTOR.

		p. c.	p. c.	p. c.		
.....	Sultana.....	4.02	0.038	0.021	.....	60463
.....	Dearborn.....	4.69	0.031	0.012	.....	60464
.....	Sun.....	2.58	0.011	0.005	.....	60465
.....	Dearborn.....	4.66	0.028	0.011	.....	60466
.....	Bee.....	2.73	0.012	0.006	.....	60467
.....	Alpha Chem. Co.	3.20	0.019	0.003	.....	60468

JOHN C. FERGUSON, INSPECTOR

		p. c.	p. c.	p. c.		
.....	Simonds.....	2.98	0.053	0.041	.....	66281
.....	Nat. Drug Co.....	6.98	0.017	0.012	.....	66282
.....	Dearborn.....	4.69	0.036	0.022	.....	66283
.....	Canada Drug Co.....	4.98	0.043	0.030	.....	66284
.....	Dearborn.....	4.36	0.081	0.015	.....	66285
.....	Sun.....	3.41	0.014	0.007	.....	66286
.....	Hatheway.....	2.85	0.043	0.036	.....	66287
.....	Dearborn.....	4.24	0.047	0.014	66288
.....	Baird.....	2.41	0.010	0.005	66289
.....	Sun.....	3.39	0.012	0.007	66290

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				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF QUEBEC CITY—

1915.							
Dec. 22	Ammonique dom.	56632	E. Martel, 1078 St. Valier, Quebec.	3 bts.	75	Vendor	
" 22	"	56633	J. Masson, 808 St. Valier, Quebec.	3 "	45	.....	N. D. & C. Co.,
" 23	"	56634	J. B. Giroux, 385 St. Joseph, Quebec.	3 "	75	.....	J. E. Livernois.
" 23	"	56635	A. Leclerc, 243 St. Joseph, Quebec.	3 "	60	.....	Unknown
" 23	"	56636	W. Brunet Cie, 144 St. Joseph, Quebec.	3 "	60	.....	J. Comen, Montreal.
" 23	"	56637	J. Plamondon, 122 St. Joseph, Quebec.	3 "	60	Unknown	
" 24	"	56638	Dr. Gagnon, 28 St. Pierre, Quebec.	3 "	75	.....	Dr. Ed. Morin.
" 24	"	56639	" " "	3 "	45	Unknown	
" 24	"	56640	Dr. Ed. Morin, 113 de la Montagne, Quebec.	3 "	45	"	
" 24	"	56641	Laroche & Co., 4 de la Fabrique, Quebec.	3 "	1.05	"	

DISTRICT OF QUEBEC PROVINCE—J. E. AUDET, O. BROCHU,

1915.							
Dec. 23	Ammonia...	3664	J. E. Gagne, Ste. Maxime	2 bts.	30	Dr. Ed. Morin, Quebec.	.....
" 23	"	3666	J. Dussault, St. Henedine	2 "	30	Bee Starch Co., Montreal.	.....
1916.							
Jan. 11	"	3671	W. J. Doyle, St. Edward	3 "	45	White-head & Turner, Quebec.	.....
" 14	"	3677	Dorchester Lumber, St. Malachi.	3 "	45	Sultana, Ltd., Montreal.	.....
" 29	"	3683	G. Ed. Couture, Levis...	3 "	30	J. B. Paine Co., Toronto.	.....
1915.							
Dec. 21	"	4437	L. N. Roy, St. Valier...	3 "	75	Sultana, Montreal..	.....
" 21	"	4439	Eugene Bolduc, St. Valier	3 "	45	Stuart & Foster, Toronto.	.....
" 22	"	4445	J. A. Lemieux, St. Michel	3 "	60	J. B. Paine Co., Toronto.	.....
" 22	"	4448	Geo. Roy, St. Michel	3 "	30	Sultana, Montreal...	.....
" 30	"	72233	A. E. Michson, Montmagny.	3 "	30	Sappho Mfg. Co., Montreal	.....
" 30	"	72234	Dr. Jas. Gagnon, Montmagny.	3 "	60	.....	J. E. Livernois, Quebec.

HOUSEHOLD AMMONIA.

Inspector's Report. (Is not an expression of opinion.)	Name of Brand.	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Ammonia NH ₃ .	Disolved Solids.	Ash.	Specific Gravity.		

F. X. W. E. BELAND, INSPECTOR.

		p.c.	p.c.	p.c.	
		23.80			56632
		5.95			56633
		24.80			56634
		23.50			56635
		10.45			56636
		7.85			56637
	Hartshorn	6.95			56638
		15.64			56639
	Hartshorn	7.65			56640
		6.64			56641

T. GENDREAU, A. PELLETIER AND N. CADIEUX, TEMPORARY INSPECTORS.

		6.42	0.067	0.043	3664
	Beo	3.23	0.013	0.007	3666
	Sun	5.46	0.017	0.008	3671
	Sultana	3.57	0.030	0.020	3677
	Bulldog	2.59	0.023	0.015	3683
	Sultana	2.15			4437
	Sun	2.51			4439
	Bulldog	1.87			4445
	Sultana	3.86			4448
	Sapho	2.41			72233
	Hartshorn	16.22			72234

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				Quantity.	Cents.	Manufacturer.	Furnisher.

DISTRICT OF QUEBEC CITY—

1915.							
Dec. 22	Ammonia...	4920	P. E. Danjous & Fils, Bic.	1 cbrp	15	Sultana Co., Mont- real.	
" 18	" ..	346	Eugene Fournier, St. Jerome.	3 bts.	60	.....
" 18	" ..	348	Pierre Simard, St. Jerome	3 "	45	Sapho Mfg., Co.	
" 28	" ..	364	Napoleon Hetu, St. Agathe des Monts.	3 "	45	Stuart & Foster.	
1916.							
Jan. 7	" ..	376	Belair & Paquette, St. Eustache deux Mont- agnes.	3 "	36	.....	Laporte & Mar- tin.
" 7	" ..	377	Boileau & Aubu, St. Eustache deux Mont- agnes.	3 "	30	.....	Stuart & Foster

DISTRICT OF THREE RIVERS—

1915.							
Dec. 18	Ammonia...	69217	L. A. Caisse, Berthier- ville.	3 bts.	39	Sapho Mfg., Co.	
1916.							
Jan. 3	" ...	69221	J. A. Boisvert, Joliette.	3 "	30	Sultana Co., Mont- real.	
" 3	" ...	69223	L. P. Crepeau, Joliette..	3 "	30	Stuart & Foster, Toronto.	
" 4	" ...	69225	Rodrique Deblois, St. Thomas.	3 "	30	Stuart & Foster, Toronto.	

DISTRICT OF EASTERN TOWNSHIPS—

Feb. 10	Ammonia...	67559	Gosselin & Paradis, Magog.	3 bts.	30	.....
" 10	" ...	67560	J. O. Donigan, Magog...	3 "	30	Nat. Drug. & Chem. Co.	
" 11	" ...	67561	H. Paré, Granby.....	3 "	25	.....
" 11	" ..	67562	Mercure & Frere, Granby	3 "	30	.....

HOUSEHOLD AMMONIA.

Inspector's Report. (Is not an expression of opinion.)	Name of Brand.	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Ammonia NH ₃ .	Dissolved Sol ^{ts} %.	Ash.	Specific Gravity.		

Concluded.

		p. c.	p. c.	p. c.		
		3.85	2.500	0.070		4920
		7.56				346
	Sapho	3.86				348
	Sun	4.31				364
	"	5.10				376
	"	4.50				377

DR. V. P. LAVALLEE, TEMPORARY INSPECTOR.

	Sapho	2.41				69217
	Sultana	4.32				69221
	Sun	6.19				69223
	"	4.82				69225

J. J. COSTIGAN, ACTING INSPECTOR.

Sultana	Sultana	4.32				67560
	National	5.64				67560
Entente	Entente	1.29				67561
Sun	Sun	5.13				67562

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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.	
				Quantity.	Cents.	Manufacturer.	Furnisher.
DISTRICT OF MONTREAL—							
1916.							
Feb. 7	Ammonia...	67251	A. Wolgensinger, 394 Charlevoix St., Montreal.	3pkts.	15	S. F. Laurason Co.	.....
" 7	" ..	67252	R. Mercier, 420 Charlevoix St., Montreal.	3 "	15	Pugsley, Dingman & Co., Ltd.	.....
" 8	" ..	67253	N. Lalande, 391 Charlevoix St., Montreal.	3 bots.	30	Stuart & Foster.	.....
" 8	" ..	67254	Boisvert Bros., 351 Hibernia St., Montreal.	3 "	30	Bee Starch Co.	.....
" 8	" ..	67255	R. Gough, 351 Hibernia St., Montreal.	3 pkgs	15	Pugsley, Dingman Co., Ltd.	.....
" 8	" ..	67256	D. Hadden, 1 Rushbrooke St., Montreal.	3 "	30	S. F. Laurason.	.....
" 8	" ..	67257	J. Stetson, 264 Hibernia St., Montreal.	3 bots.	30	Sultana, Ltd.	.....
" 8	" ..	67258	N. Fortin, 80 Coleraine St., Montreal.	3 "	30	Unknown	.....
" 9	" ..	67259	R. Ekin, 601 Wellington St., Montreal.	3 pkgs	15	Bee Starch Co.	.....
" 9	" ..	67260	S. Whitehead, 291 Charron St., Montreal.	3 bots.	30	Sultana, Ltd.	.....
DISTRICT OF VALLEYFIELD—							
Jan. 28	Ammonia..	62971	E. Beauchamp, St. Lamberts.	3 bots.	45	Hervay Chem. Co., St. Basile.	.....
" 28	" ..	62972	Graham & Hunter, St. Lamberts.	3 "	30	Stuart & Foster, Toronto.	.....
DISTRICT OF OTTAWA—							
1915.							
Dec. 7	Household Ammonia.	70553	A. M. Parkinson, Kemptville.	3 bots.	45	Sultana, Ltd., Montreal.	.....
" 7	" ..	70554	Mundle & Percival, Kemptville.	3 pkgs	30	Eze Mfg. Co., Ltd., Toronto.	.....
" 11	" ..	70568	W. G. Becksted, Morrisburg.	3 "	30	Pugsley, Dingman & Co., Toronto.	.....
" 11	" ..	70569	W. & J. Meikle, Morrisburg.	3 bots.	30	Stuart & Foster, Ltd., Toronto.	.....
" 14	" ..	70590	T. McCormick & Son, Arnprior.	3 pkgs	15	S. F. Laurason & Co., London, Ont.	.....
" 24	" ..	70630	E. Birrns, Eganville.	3 "	30	Bee Starch Co., Montreal.	.....
" 29	" ..	70642	Eugene Doucet, Dupont and Papineau Sts., Hull.	3 "	15	A. Hutchinson & Co., Toronto.	.....
" 30	" ..	70650	King George Grocery, Somerset St., Ottawa.	3 bots.	30	Bee Starch Co., Montreal.	.....
1916.							
Jan. 4	" ..	70657	J. H. McKee, 901 Bank St., Ottawa.	3 pkgs	15	Eze Mfg. Co., Toronto.	.....

HOUSEHOLD AMMONIA.

Inspector's Report. (Is not an expression of opinion.)	Name of Brand.	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Ammonia N.H ₃ .	Dissolved Solids.	Ash.	Specific Gravity.		

D. J. KEARNEY, INSPECTOR.

		p. c.	p. c.	p. c.		
	Laurason's	2.04				67251
	Handy	3.06				67252
	Sun	2.65				67253
	Bee	3.09				67254
	Handy	4.08				67255
	Laurason's	3.40				67256
	Sultana	4.40				67257
	Murray's	4.97				67258
	Bee	2.04				67259
	Sultana	4.03				67260

J. J. COSTIGAN, ACTING INSPECTOR.

	Chemical Co.	4.66				62571
	Sun	3.85				62972

J. A. RICKEY, INSPECTOR.

Red Seal	Sultana	3.50				70553
Star, contents equal to 6 qts. Lip. Ammonia. Absolutely pure.	Star	1.70				70554
Harvey's Sun	Handy	3.23				70568
Harvey's Sun	Sun	4.66				70569
Snowflake	Laurason's	2.89				70590
Bee Brand	Bee	1.70				70630
Good	Hutchison's	2.45				70642
Bee Brand	Bee	2.77				70650
	Crescent	4.37				70657

TABLE I—BULLETIN No. 341—

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

DISTRICT OF KINGSTON—

1915.							
Dec. 10	Household Ammonia.	71781	Geo. Mahood, Kingston.	3 bots.	30	Vendor.....	
" 13	"	71782	Wallbridge & Clark, Belleville.	3 "	30	Stuart & Foster, Toronto.	
" 13	"	71783	Ed. A. Kellaway, Belleville.	3 "	30	" "	
" 13	"	71784	The Belleville Pharmacy, Belleville.	3 "	35	Vendor.....	
" 14	"	71785	W. H. Ireland, Trenton..	3 "	30		
" 14	"	71786	W. Webster, Trenton...	3 "	30	Sultana, Montreal ..	
" 14	"	71787	W. Burnet, Cobourg.	3 "	30	Cleveland Chem. Co., Toronto.	
" 14	"	71788	E. Guillet, Cobourg ...	3 "	30	Stuart & Foster Toronto.	
" 15	"	71789	A. M. Caroling, Peterboro	3 "	30	J. T. Taylor, Toronto	
" 15	"	71790	J. E. Lillico, Peterboro..	3 "	30	Moody's, Berlin, Ont.	

DISTRICT OF TORONTO—

Dec. 14	Household Ammonia.	70131	Matheson Bros., Whitby..	3 pkgs	15	S. F. Lawrason Co., London.	
" 15	"	70132	T. C. Forman, Port Perry.	3 "	25	Eze Mfg. Co., Toronto.	
" 15	"	70133	A. M. MacPhail, Uxbridge.	3 bots.	30	Gorman Eckert Co., London.	
" 15	"	70134	J. A. McLean, Cannington.	3 pkgs	30	Pugsley Dingman Co., Toronto.	
" 17	"	70135	J. G. French, Beaverton.	3 "	30		Eby Blain Co, Toronto.
" 20	"	70136	N. Sisterson, 395 Wilton Ave., Toronto.	3 bots.	30	Cleveland Chem. Co., Toronto.	
" 20	"	70137	W. J. Nichol, 258 Queen St. E., Toronto.	3 pkgs	25	Hutchinson Omand Co., Toronto.	
" 21	"	70138	J. H. Porter, 689 Bloor St. W., Toronto.	3 bots.	30	W. Wilson & Son, Toronto.	
" 23	"	70139	T. W. Squire, 229 Church St. W., Toronto.	3 pkgs	15	Eze Mfg. Co., Toronto.	
" 23	"	70140	C. Byars, 259 Danforth Ave., Toronto.	3 bots.	30	Alpha Chem. Co., Berlin, Ont.	

DISTRICT OF WINDSOR—

1916.							
Jan. 14	Liquid Ammonia.	54564	A. M. Smith & Son, Woodstock.	1 bot.	10		M. Maserret & Co., London.
" 14	"	54567	Geo. Parker, Woodstock.	1 "	10	Stuart & Foster, Toronto.	
" 14	"	54569	E. W. Sage, Woodstock.	1 "	10	Gorman Eckert Co., London.	

HOUSEHOLD AMMONIA.

Inspector's Report. (Is not an expression of opinion.)	Name of Brand.	Results of Analysis.				No. of Sample	Remarks and Opinion of the Chief Analyst.
		Ammonia NH ₃ .	Dissolved Solids.	Ash.	Specific Gravity.		

S. HOGAN, INSPECTOR.

	p. c.	p. c.	p. c.	
.....	8.36	.....	.....	71781
Sun.....	6.12	.....	.....	71782
".....	2.24	.....	.....	71783
.....	8.84	.....	.....	71784
Bull Dog Brand. Bull Dog.....	3.90	.....	.....	71785
Sultana.....	4.42	.....	.....	71786
Hawe's.....	5.22	.....	.....	71787
Sun.....	4.14	.....	.....	71788
.....	4.08	.....	.....	71789
Moody's.....	3.52	.....	.....	71790

H. J. DAGER, INSPECTOR.

.....	Lawrason's.....	2.21	.....	.....	70131
.....	Star.....	1.87	.....	.....	70132
.....	.....	5.32	.....	.....	70133
.....	Handy.....	3.23	.....	.....	70134
.....	Anchor.....	2.04	.....	.....	70135
.....	Hawe's.....	4.86	.....	.....	70136
.....	H. O.....	2.38	.....	.....	70137
.....	Wilson's.....	11.38	.....	.....	70138
.....	Crescent.....	2.62	.....	.....	70139
.....	Moody's.....	2.84	.....	.....	70140

JOHN TALBOT, INSPECTOR.

Blue Circle Brand.	Blue Circle.....	6.70	.....	.....	54564
.....	Sun.....	4.79	.....	.....	54567
.....	.....	5.76	.....	.....	54569

TABLE I—BULLETIN No. 341—

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—							
1916.							
Jan. 14	Liquid Ammonia.	54571	F. J. Coles & Co., Woodstock.	1 bot.	10	J. B. Paine Co., Toronto.	
" 14	"	54572	John A. Smith, Woodstock.	1 "	10	Gorman Eckert & Co., London.	
" 14	"	54574	White & Co., Woodstock.	1 "	10	" "	
" 14	"	54576	Lewis & Son, Woodstock.	1 "	10	I. X. L. Spice & Co., London.	
" 20	"	54587	Willis & Co., London....	1 "	10	Gorman Eckert & Co., London.	
" 20	"	54588	James McLeod, London.	1 "	10	" "	
" 20	"	54589	Dan. Carter, London.....	1 "	10	.....	E. Adams & Co., London.
DISTRICT OF MANITOBA—							
1915.							
Dec. 20	Household Ammonia.	71987	E. A. Whitman, Enters.	12 oz.	25	Royal Crown Soap Co., Winnipeg.	
" 23	"	71988	P. Dalair, Elm Creek....	12 "	30	" "	
" 30	"	71989	H. McFelridge, Minnedosa.	12 "	15	J. B. Paine Co., Toronto.	
1916.							
Jan. 5	"	71990	J. H. Moore, Souris.....	12 "	15	Royal Crown Soap Co., Winnipeg.	
" 6	"	71991	A. I. Grocery, Brandon..	12 "	15	Codville Co., Brandon.	
" 6	"	71992	MacFee Drug Co., Brandon.	12 "	25	National Drug Co., Winnipeg.	
" 6	"	71993	Kennedy Pharmacy, Brandon.	12 "	15	Vendor.....	
" 6	"	71994	W. J. Young, Brandon....	12 "	20	Gold Standard Co., Winnipeg.	
" 6	"	71995	Mutter Bros., Brandon....	12 "	15	J. B. Paine, Toronto.	
" 6	"	71996	Ross & McMullen, Virden.	12 "	30	Vendors.....	
DISTRICT OF SASKATCHEWAN—							
1915.							
Dec. 18	Household Ammonia.	71533	E. R. Davis, Estevan....	1 pint.	15	Martin Bole & Wynne, Winnipeg.	
1916.							
Feb. 9	"	71547	Fletcher's Grocery, Swift Current.	1 "	15	Royal Crown Soap Co., Winnipeg.	Swift Current Grocery.
" 9	"	71548	D. Wodlinger, Swift Current.	1 "	15	J. B. Paine Co., Toronto.	
" 10	"	71553	Robinson McBean Co., Moose Jaw.	1 "	15	Stewart & Fisher, Winnipeg.	
" 10	"	71554	W. S. Hamilton, Moose Jaw.	1 "	15	The Bole Drug Co., Winnipeg.	

HOUSEHOLD AMMONIA.

Inspector's Report. (Is not an expression of opinion.)	Name of Brand.	Results of Analysis.				No. of Sample.	Remarks and Opinion of the Chief Analyst.
		Ammonia NH ₃ .	Dissolved Solids.	Ash.	Specific Gravity.		

Concluded.

		p. c.	p. c.	p. c.		
Bull Dog Brand	Bull Dog	3.40				54571
		5.70				54572
		5.75				54574
		5.40				54576
		5.50				54587
		5.61				54588
Fan Brand	Fan	5.66				54589

J. B. COSGROVE, TEMPORARY INSPECTOR.

		3.40	0.09		0.9868	71987
		2.90	0.12		0.9894	71988
		1.80	0.01		0.9926	71989
		1.90	0.11		0.9934	71990
		4.10	0.05		0.9832	71991
		8.70	0.02		0.9634	71992
		6.00	0.01		0.9750	71993
		4.30	0.06		0.9827	71994
		2.70	0.02		0.9891	71995
		8.70	0.04		0.9633	71996

L. H. HALL, INSPECTOR.

		3.90	0.04		0.9840	71533
Royal Crown	Royal Crown	2.50	0.10		0.9905	71547
Bull Dog	Bull Dog	2.90	0.01		0.9875	71548
Sun	Sun	3.30	0.02		0.9864	71553
		4.90	0.02		0.9799	71554

TABLE I—BULLETIN No. 341—

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 ALBERTA—

1916.							
Feb. 10	Household Ammonia.	52371	J. H. Morris & Co., Edmonton.	3 bot.	15	Royal Crown Soap Ltd., Calgary.	
" 10	" ..	52372	G. H. Graydon, Edmonton.	3 "	25	Vendor	
" 14	" ..	52373	J. J. Christopher, Wetaskiwin.	3 "	30	Standard Soap Co., Calgary.	
" 15	" ..	52374	Younge Bros., Camrose.	3 "	25	Royal Crown Soap Co. Ltd., Calgary	
" 15	" ..	52375	P. J. Hampen, "	3 "	25	Georgeson & Co., Calgary.	
" 16	" ..	52376	L. J. Adams, Stettler.	3 "	30	Royal Crown Soap Co. Ltd., Calgary.	
" 22	" ..	52377	John Irwin Co. Ltd., Calgary.	3 "	25	" ..	
" 22	" ..	52378	J. A. Nolan, Calgary.	3 "	25	" ..	
" 23	" ..	52379	Geo. J. Wood, "	3 "	25	" ..	
" 23	" ..	52380	Woolard's Grocery, Calgary.	3 "	25	" ..	

DISTRICT OF ROCKY MOUNTAINS—

1915.							
Dec. 14	Household Ammonia.	68112	Rutherford Drug Co., Nelson.	3 bot.	45	Vendors	
" 14	" ..	68113	City Drug & Stationery Co., Nelson.	3 "	30	" ..	
" 14	" ..	68116	Canada Drug & Book Co., Nelson.	3 "	40	" ..	
" 14	" ..	68117	Poole Drug Co., Nelson.	3 "	30	" ..	
1916.							
Jan. 7	" ..	68151	Ira R. Manning, Cranbrook.	3 "	40	.....	Cranbrook Jobbers, Cranbrook
" 10	" ..	68158	D. E. Grove, Ymir.	3 "	30	.....	A. Macdonald & Co., Nelson.
" 17	" ..	68176	W. R. Braden, Rossland.	3 "	50	Vancouver Chem. Wks., Vancouver.	
" 17	" ..	68177	Hunter Bros., Rossland.	3 "	35	Royal Crown Soaps, Vancouver.	
Feb. 9	" ..	68183	T. Lauriente & Son, Trail.	1 bot.	35	W. J. Pendray & Sons, Victoria.	

DISTRICT OF VANCOUVER—

Jan. 19	Household Ammonia.	55468	Slater Bros., 131 Hastings St., E. Vancouver.	3 bot.	40	Vancouver Chem. Wks., Vancouver.	
" 20	" ..	55469	Red Cross Grocery, Robson and Howe Sts., Vancouver.	3 "	"	Quality Mfg. Co., Vancouver.	

HOUSEHOLD AMMONIA.

Inspector's Report. (Is not an expression of opinion.)	Name of Brand.	Results of Analysis.				No. of Sample.	Remarks and Opinions of the Chief Analyst.
		Ammonia NH ₃ .	Dissolved Solids.	Ash.	Specific Gravity.		

A. W. R. MARKLEY, INSPECTOR.

		p. c.	p. c.	p. c.		
Golden West....	Golden West.....	1.95	6.83	.....	1.0574	52371
.....	.....	8.03	0.05	.....	0.9662	52372
.....	.....	1.37	7.23	.....	1.0558	52373
Golden West....	Golden West.....	2.05	8.10	.....	1.0698	52374
.....	.....	4.36	0.06	.....	0.9814	52375
Golden West....	Golden West.....	2.00	3.87	.....	1.0282	52376
" ".....	" ".....	2.12	7.86	.....	1.0666	52377
" ".....	" ".....	2.05	3.89	.....	1.0282	52378
" ".....	" ".....	2.06	3.89	.....	1.0279	52379
" ".....	" ".....	2.41	0.05	.....	0.9898	52380

THOS. PARKER, INSPECTOR.

.....	.....	6.19	0.33	.....	0.9768	68112
.....	.....	7.89	0.01	.....	0.9661	68113
.....	.....	8.13	0.01	.....	0.9654	68116
.....	.....	6.61	0.01	.....	0.9716	68117
.....	.....	6.88	0.01	.....	0.9706	68151
.....	.....	4.24	0.01	.....	0.9815	68158
.....	.....	3.75	0.01	.....	0.9837	68176
.....	Royal Crown..	4.16	0.02	.....	0.9820	68177
.....	.....	6.54	0.01	.....	0.9719	68183

E. J. MORGAN, INSPECTOR.

.....	.....	7.72	0.01	.....	0.9671	55468
Quality Brand.	Quality	3.33	0.01	.....	0.9857	55469

TABLE I—BULLETIN No. 341—

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.	Cost.	Manufacturer.	Furnisher.
DISTRICT OF VANCOUVER—							
1916.							
Jan. 20	Household Ammonia.	55470	S. Pritchard, 950 Robson St., Vancouver.	3 bots	45	W. J. Pendray & Sons, Ltd., Victoria.	.....
" 20	" ..	55471	R. H. Richardson, 1029 Robson St., Vancouver.	3 "	75	Empress Mfg. Co., Vancouver.	.....
" 20	" ..	55472	" " " "	3 "	45	W. J. Pendray & Sons, Ltd., Victoria.	.....
" 20	" ..	55473	Hudson's Bay Co., Granville St., Vancouver.	3 "	75	Royal Crown Soaps, Ltd., Vancouver.	.....
" 20	" ..	55474	" " " "	3 "	75	S. F. Sutton & Sons, London, Eng.	.....
" 20	" ..	55475	" " " "	3 pkgs	45	Pugsley, Dingman & Co., Toronto.	.....
" 22	" ..	55476	New Westminster Co-op. Assn., 33 8th St., New Westminster.	3 bots.	40	The Lee Chem. Co., Vancouver.	.....
" 22	" ..	55477	C. A. Welch Ltd., 681 Columbia St., New Westminster.	3 "	75	W. J. Pendray & Sons, Ltd., Victoria.	.....
DISTRICT OF VICTORIA—							
Feb. 22	Household Ammonia.	66655	Dix H. Ross, & Co., 1317 Gov't. St., Victoria.	1 qt. .	25	.....	Wm. Jackson, & Co., Victoria.
" 22	" ..	66658	The West End Grocery Co., 1002 Gov't. St., Victoria.	1 " .	20	W. J. Pendray & Sons, Victoria.	.....
" 24	" ..	66675	H. O. Kirkham & Co., 1109 Gov't. St., Victoria.	1 " .	20	" " ..	.....
" 24	" ..	66686	Acton Bros., 1317 Douglas St., Victoria.	1 " .	20	" " ..	.....
" 28	" ..	71307	L. D. Rives, Menzies and Simcoe Sts., Victoria.	1 " .	20	Western Pickling Wks. Victoria.	.....
Mar. 7	" ..	71312	Ivel's Pharmacy, 1415 Gov't. St., Victoria.	1 " .	20	.....	Nat. Drug & Chem. Co., Victoria.
" 9	" ..	71314	D. E. Campbell, Douglas and Fort Sts., Victoria.	1 " .	25	.....	" " ..
" 9	" ..	71315	Nat. Drug & Chem. Co., 512 Yates St., Victoria.	1 " .	15	Vendor.....	.....
" 9	" ..	71316	Ferry's Drug Store, 705 Fort St., Victoria.	1 " .	15	" ..	.....
" 10	" ..	71317	Geo. A. Fraser & Co., 917 Gov't. St., Victoria.	1 " .	25	" ..	.....
DISTRICT OF NOVA SCOTIA—							
Feb. 18	Household Ammonia.	64321	Wm. Moore, Halifax. . . .	3 bots.	30	Bee Starch Co., Montreal.	Unknown
" 21	" ..	64322	J. L. Wilson, & Co., Halifax.	3 "	30	Sawyer Crystal Blue Co., Boston Mass.	Manufacturer... ..
" 21	" ..	64323	" " " "	3 "	30	Stuart & Foster, Toronto	" ..

HOUSEHOLD AMMONIA.

Inspector's Report. (Is not an expression of opinion.)	Name of Brand.	Result of Analysis.				No. of Sample.	Remarks and Opinions of the Chief Analyst.
		Ammonia NH_3	Dissolved Solids.	Ash.	Specific Gravity.		

Concluded.

		p. c.	p. c.	p. c.		
Standard	Standard	5.81	0.01	.....	0.9752	55470
Climax	Climax	4.67	0.01	.....	0.9709	55471
Concentrated	Concentrated	6.53	0.02	.....	0.9722	55472
Royal Crown	Royal Crown	4.40	0.03	.....	0.9813	55473
Sutton's Compound Cream of Ammonia.	Sutton's	11.84	0.08	.....	0.9611	55474
Handy Brand	Handy	3.41	7.31	.....	.....	55475
Lee's Liquid Ammonia.	Lee's	5.35	0.01	.....	0.9769	53476
Pendray's Washing Ammonia.	Pendray's	4.62	0.01	.....	0.9804	55477

D. O'SULLIVAN, INSPECTOR.

Imperial	Imperial	6.15	0.01	.....	0.9735	66655
Concentrated	Concentrated	6.13	0.01	.....	0.9736	66668
Absolutely pure	.....	6.39	0.01	.....	0.9724	66675
Concentrated	Concentrated	6.58	0.01	.....	0.9719	66686
Double strength	.....	5.01	0.01	.....	0.9784	71307
.....	.....	8.40	0.01	.....	0.9641	71312
.....	.....	6.12	0.01	.....	0.9737	71314
.....	.....	2.80	0.55	.....	0.9838	71315
.....	.....	8.49	0.01	.....	0.9637	71316
.....	.....	10.76	0.01	.....	0.9545	71317

R. J. WAUGH, INSPECTOR.

.....	Bee	3.44	0.024	0.010	.....	64321
.....	Sawyer's	7.82	0.020	0.012	.....	64322
Sun Brand	Sun	5.71	0.017	0.007	.....	64323

TABLE II—BULLETIN No. 341—HOUSEHOLD AMMONIA.

Brand.	Results of Analysis				Brand.	Results of Analysis.			
	No. of Samples analyzed.	Average p.c. of NH ₃ .	Average price per bottle of approx. 12 ozs.	Price per unit value.		No. of Samples analyzed.	Average p.c. of NH ₃ .	Average price per bottle of approx. 12 ozs.	Price per unit value.
Sun.....	20	4.24	11	2.594	Canada Drug Co.....	1	4.98	10	2.000
Bee.....	5	5.05	11	3.606	Hathways.....	1	2.85	10	3.508
Hartshorn's Morins.....	2	7.30	21	2.890	Baird's.....	1	2.41	10	4.149
" Livermois.....	1	16.22	20	1.233	National.....	1	5.64	10	1.773
Bull Dog.....	5	2.53	18	7.114	Entente.....	1	1.29	10	7.752
Sapho.....	2	2.49	12	4.819	Murrays.....	1	4.97	10	2.012
Sawyers.....	2	7.83	14	1.788	Blue Circle.....	1	6.76	20	2.988
Suitana.....	12	5.90	12	3.077	Fan.....	1	5.66	10	1.770
Moody's.....	4	3.18	10	3.144	Quality.....	1	3.38	10	3.003
Dearborn.....	5	4.52	10	2.212	Standard.....	1	5.81	10	1.721
Hawes.....	2	5.04	10	1.984	Climax.....	1	4.67	16	3.426
Royal Crown, Vancouver	1	4.28	18	4.205	Suttons.....	1	11.84	25	2.195
Golden West.....	1	2.09	27	12.918	Lees.....	1	5.35	8	1.495
Concentrated.....	2	6.41	12	1.872	Pendrays.....	1	4.62	12	2.597
Gorman Eckert.....	6	5.60	10	1.789	Imperial.....	1	6.15	16	2.601
Royal Crown, Winnipeg.	4	2.68	20	7.462	Chemical Co.....	1	4.66	15	3.218
Simonds.....	1	2.98	10	3.355	Wilson's.....	1	11.38	10	0.878
National Drug Co.....	1	6.89	10	1.451					

No brand given. No. of sample.	Results of Analysis.				No brand given. No. of sample.	Results of Analysis.			
	No. of Samples analyzed.	Average p.c. of NH ₃ .	Average price per bottle of approx. 12 ozs.	Price per unit value.		No. of Samples analyzed.	Average p.c. of NH ₃ .	Average price per bottle of approx. 12 ozs.	Price per unit value.
56632.....	1	23.80	30	1.260	71554.....	1	4.90	10	2.040
56633.....	1	5.95	18	3.025	52372.....	1	8.03	10	1.245
56634.....	1	24.80	30	1.209	52373.....	1	1.37	10	7.299
56635.....	1	23.50	24	1.021	52375.....	1	4.36	10	2.293
56636.....	1	10.45	15	1.436	68112.....	1	6.19	15	2.423
56637.....	1	7.85	20	3.548	68113.....	1	7.89	20	2.594
56639.....	1	15.64	18	1.150	68116.....	1	8.13	26	3.197
56641.....	1	6.64	30	4.518	68117.....	1	6.61	20	3.025
3664.....	1	6.42	30	4.672	68151.....	1	6.88	10	1.453
71781.....	1	8.36	10	1.196	68158.....	1	4.24	10	2.358
71784.....	1	8.84	24	2.714	68176.....	1	3.75	25	6.686
64576.....	1	5.40	10	1.851	68183.....	1	6.54	25	3.822
71989.....	1	1.80	15	8.333	55468.....	1	6.59	12	1.877
71991.....	1	4.10	15	3.658	66675.....	1	7.72	15	1.943
71992.....	1	8.70	25	2.673	71307.....	1	6.59	12	1.877
71993.....	1	6.00	15	2.600	71312.....	1	5.01	12	2.395
71994.....	1	4.30	20	4.651	71314.....	1	8.40	12	1.428
71995.....	1	2.70	15	5.655	71315.....	1	6.12	12	1.960
71996.....	1	8.70	30	3.448	71316.....	1	2.80	10	3.571
346.....	1	7.56	20	2.645	71317.....	1	8.49	10	1.177
71533.....	1	3.90	10	2.566	71789.....	1	10.76	16	1.486
						1	4.6	10	2.450

TABLE II—BULLETIN 341—HOUSEHOLD AMMONIA.

SAMPLES OF DRY AMMONIA.

Brand.	Results of Analysis.				Brand.	Results of Analysis.			
	No. of Samples analyzed.	Average p.c. of NH ₃ .	Average price per pound approx.	Price per unit value.		No. of Samples analyzed.	Average p.c. of NH ₃ .	Average price per pound approx.	Price per unit value.
			Cents				Cents		
Lawrason's Snowflake.	4	2.63	5	1.901	Good.	1	2.45	5	2.040
Handy.	5	3.40	5	1.470	Anchor.	1	2.04	5	2.450
Star.	2	1.78	7	3.932	H. O.	1	2.38	5	2.100
Crescent.	2	3.49	4	1.145	Bee.	2	1.87	5	2.673

analysis.
per ounce or approx. 12 ozs.
Price per unit value.
s. p.c.
10 2.000
10 3.508
10 4.149
10 1.773
10 1.752
10 2.012
20 2.988
10 1.770
10 3.003
10 1.721
16 3.426
25 2.195
8 1.495
12 2.597
16 2.601
15 3.218
10 0.878

analysis.
approx. 12 ozs.
Price per unit value.
s.
2.040
1.245
7.299
2.293
2.423
2.534
3.197
3.025
1.453
2.358
6.666
3.822
1.943
1.877
2.395
1.428
1.960
3.571
1.177
1.486
2.450

