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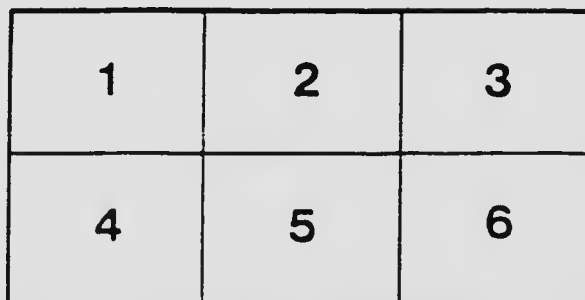
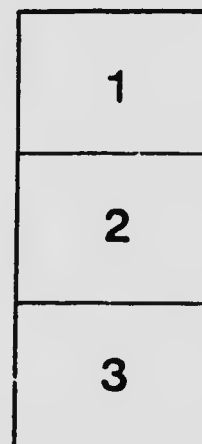
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LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA

BULLETIN No. 101

STANDARD FERTILIZERS, 1905

1905-1906

LABORATORY
OF THE
INLAND REVENUE DEPARTMENT,
OTTAWA CANADA.

BULLETIN No. 101.

STANDARD FERTILIZERS, 1905.

OTTAWA, 7th April, 1905.

WM. HINSWORTH, Esq.,
Acting Deputy Minister of Inland Revenue.

SIR,—I beg to submit the results of analysing 117 standard samples of fertilizers, which, in accordance with the provisions of the Fertilizers Act, 1890, were sent to the Minister of Inland Revenue as representing the goods which the manufacturers propose to offer for sale in the Dominion during the present year. These samples should, according to the Act, be sent in before the end of the month of January in each year, but it was not until about the middle of March, 1905, that the last of them were received. The following is a statement of the number of such standard samples which have been submitted to this Branch during the past nine years:—

In 1897 there were analysed 107 samples.

1898	"	124	"
1899	"	154	"
1900	"	107	"
1901	"	102	"
1902	"	106	"
1903	"	128	"
1904	"	111	"
1905	"	120	"

The tabulated statement appended to this report gives the designations of the various brands of fertilizers, the names of the manufacturers or importers, the claims made as regards their fertilizing constituents, and the actual percentage of these found in the standard samples on analysis in this laboratory. The guaranteed contents must be understood to indicate only the lowest percentages claimed on the manufacturer's label or given in his correspondence with the Department.

40-45707

As required by the Fertilizers Act, the tabulated statement contains also a column in which the relative value per 2,000 lbs. of each fertilizer is given, calculated from their contents in fertilizing ingredients, the values of these being taken as follows:—

	Cents per lb.
Nitrogen in salts of ammonia or in nitrates, as well as in compound fertilizers.....	17
Organic nitrogen in ground bone, fish, blood or tankage..	16
Phosphoric acid:—	
Soluble in water	6
Soluble in 1 p.c. citric acid.....	5½
Insoluble in Thomas phosphate powder.....	3½
Insoluble in ground rock, phosphate, and fertilizers generally.....	1½
Potash in high grade salts.....	5

These rates have this year been modified in order to bring them to correspond more closely with the present commercial prices of the materials used in the manufacture of fertilizers. The valuation of each brand is calculated on the results of the analysis of the standard samples, but it has been omitted in the case of the guaranteed contents on account of the imperfect character of the information supplied in the majority of instances.

I beg to recommend the immediate publication of this report, and in advance of the one to be issued regarding 'Fertilizers as sold.'

I have the honour to be, sir, your obedient servant,

THOMAS MACFARLANE,
Chief Analyst.

TABULATED STATEMENT of the Results of Analysis of 120 Standard

Number of Sample.	Designation.	Name of Manufacturer or Importer.	By whom sent.	From what Materials produced.	
1603	Fertilizer No. 1—Exhibit 'A.'	The Wm. Davies Co., Ltd., Toronto.	Manufacturers...	Dried blood, bone and tankage.	Guaranteed contents Standard sample....
1604	Concentrated Fertilizer No. 2—Exhibit 'C.'	"	"	Tank water evaporated and dried.	Guaranteed contents Standard sample....
1606	No. 1 Brand, Superphosphate.	Nichols Chemical Co. of Canada, Ltd.	"	Canadian phosphate rock, sulphuric acid, muriate of potash and sulphate of ammonia.	Guaranteed contents Standard sample....
1606	Reliance Fertilizer...	"	"	"	Guaranteed contents Standard sample....
1607	Royal Canadian Fertilizer.	"	"	"	Guaranteed contents Standard sample....
1608	Victor Fertilizer....	"	"	"	Guaranteed contents Standard sample....
1609	Crown Fertilizer....	"	"	"	Guaranteed contents Standard sample....
1610	Superphosphate, Capelton Brand.	"	"	"	Guaranteed contents Standard sample....
1611	Fertilizer Exhibit 'A'	Harris Abbatoir Co., Ltd., Toronto.	"	Dried blood, bone and tankage.	Guaranteed contents Standard sample....
1612	Fertilizer.	Leung Packing and Provision Co., Ltd., Montreal.	"	Packing house tankage made from blood, bones, hair and offal of cattle and hogs.	Guaranteed contents Standard sample....
1613	Essex Complete Manure for corn, grain and grass.	Russia Cement Co.	S. C. Shaffner, Granville Ferry, N.S.	Nitrate of soda, high grade dry western blood, ground fish meal, ground fish bone, high grade sulphate of potash, high grade muriate of potash, double superphosphate and acid phosphate.	Guaranteed contents Standard sample....
1614	Essex Complete Manure for potatoes, roots and vegetables.	"	"	"	Guaranteed contents Standard sample....
1615	Essex 'A 1' Superphosphate.	"	"	"	Guaranteed contents Standard sample....
1616	Essex XXX Fish and Potash.	"	"	"	Guaranteed contents Standard sample....
1617	Essex Orchard Fertilizer.	"	"	"	Guaranteed contents Standard sample....
1618	Essex Bone Meal....	"	"	"	Guaranteed contents Standard sample....

Samples of Commercial Fertilizers, registered for 1905.

RESULT OF ANALYSIS.										Relative Value per Ton of 2,000 lbs.	Name of Analyst and Number of Sample.	
Nitrogen.		Phosphoric Acid.					Pot. ash.	Moisture.				
Total including Nitric Acid and Ammonia.	Total Calculated as Ammonia.	Soluble in Water.	Citric Soluble.	Insoluble.	Total.	Total Available.						
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	\$ cts.			
6.33	7.87				14.00			7.90		1603		
6.02	7.31		13.35	2.87	15.22	15.35		6.72	37.00	Miss E. Davidson.		
12.65	15.35							7.10		1604		
11.62	14.11		2.72	0.47	3.19	2.72	1.37	8.76	41.66	"		
						11.50				1605		
		9.75	2.72	5.43	17.90	12.47		11.08	16.32	"		
										1606		
2.31	2.00					6.00	2.00			1606		
	2.61	4.31	2.09	5.11	11.51	6.40	4.36	12.00	21.21	"		
	4.00					9.00	5.00			1607		
4.55	5.52	8.63	1.77	3.67	14.07	10.40	6.34	6.52	28.83	"		
	2.00					7.00	3.00			1608		
2.59	3.15	5.75	1.13	5.27	12.15	6.88	4.93	11.24	23.49	"		
	2.00					11.00	2.50			1609		
2.70	3.28	10.87	1.12	5.43	17.42	11.19	4.00	7.44	20.16	"		
						8.00				1610		
1.19	1.45	5.91	0.39	6.23	12.53	6.30		12.32	13.44	1611		
0.30	12.60				5.04			6.06		1611		
10.01	12.16		5.92	0.95	6.87	5.92	1.02	4.96	30.85			
										1612		
7.30	8.86				9.44			10.48		1612		
6.16	7.34		11.20	1.59	12.79	11.20		9.16	32.51			
										1613		
3.00	4.00	3.60	4.00	2.50	9.50		9.50			A. Lemoine		
3.22	3.91	4.35	4.48	2.87	11.70	8.83	9.36	9.64	31.16			
										1614		
3.70	4.50	3.00	4.00	2.00	9.00		8.50			1614		
3.50	4.25	2.75	6.40	4.47	13.62	9.15	7.68	8.76	31.26	"		
										1615		
	1.25				9.00	7.00	3.00			1615		
1.54	1.87	1.15	5.24	5.63	12.02	6.00	2.12	6.36	16.19	"		
2.10	2.50	4.50	4.50	3.00	12.00		2.25			1616		
2.66	3.23	2.24	7.84	4.63	14.71	10.08	2.31	9.35	24.05	Miss E. Davidson.		
	2.00	4.00	3.00	2.00	9.00		6.50			1617		
1.82	2.21	1.92	10.24	2.23	14.39	12.16	9.05	5.20	29.47	"		
										1618		
3.17	3.85		10.08	9.59	19.68	10.09		11.96	24.12	Miss E. Davidson.		

TABULATED STATEMENT of the Results of Analysis of 120 Standard

Number of Sample.	Designation.	Name of Manufacturer or Importer.	By whom sent.	From what materials Produced.	Guaranteed contents Standard sample . . .
1619	Essex Market Garden and Potato Manure.	Russea Cement Co.	S. C. Shaffner, Granville Ferry, N.S.	Nitrate of soda, high grade dry western blood, ground fish meal, ground fish bone, high grade sulphate of potash, high grade muriate of potash, double super phosphate and acid phosphate.	Guaranteed contents Standard sample . . .
1620	Essex Dry Ground Fish.	"	"	"	Guaranteed contents Standard sample . . .
1621	Great Eastern High Grade Potato Manure	American Agricultural Chemical Co.	Great Eastern Fertilizer Branch, Rutland, Vt.	Bone black, animal bone, phosphatic guano, dried fish, meat or blood, sulphate of ammonia, sulphate or muriate of potash, sulphuric acid.	Guaranteed contents Standard sample . . .
1622	Great Eastern Northern Corn Special.	"	"	"	Guaranteed contents Standard sample . . .
1623	Great Eastern Potato Manure.	"	"	"	Guaranteed contents Standard sample . . .
1624	Great Eastern General Fertilizer.	"	"	"	Guaranteed contents Standard sample . . .
1625	Great Eastern Grass and Oats Fertilizer	"	"	Bone black, bone phosphate, guano, muriate or sulphate of potash.	Guaranteed contents Standard sample . . .
1626	Great Eastern plain Superphosphate.	"	"	"	Guaranteed contents Standard sample . . .
1627	Fertilizer Exhibit 'B'	The Wm. Davis Co., Ltd., Toronto.	Manufacturer . . .	Dried blood, bone and tannage.	Guaranteed contents Standard sample . . .
1628	Fertilizer	Jos. O'Mara, Plantaganet, Ont.	"	Blood, bone and general packing house refuse.	Guaranteed contents Standard sample . . .
1629	Thomas Phosphate Powder.	Chemical Works, late H. & E. Albert, 15 Philpot Lane, London.	Anglo Canadian Chemical Co., St. John, N.B.	"	Guaranteed contents Standard sample . . .
1630	Freeman's Sure Growth Manure for Grass, Grain and Vegetables.	The W. A. Freeman Co., Ltd., Hamilton.	Manufacturers . . .	Phosphate, bone tannage, sulphuric acid, muriate of potash, sulphate of potash, sulphate of ammonia and nitrate of soda.	Guaranteed contents Standard sample . . .
1631	Freeman's Bone and Potash.	"	"	"	Guaranteed contents Standard sample . . .
1632	Freeman's Celery and Early Vegetable Manure.	"	"	"	Guaranteed contents Standard sample . . .

Samples of Commercial Fertilizers, registered for 1905—Continued.

RESULTS OF ANALYSIS.										Relative Value per Ton of 2,000 lbs.	Name of Analyst and Number of Sample.	
Nitrogen.		Phosphoric Acid.					Pot. ash.	Moisture.				
Total including Nitric Acid and Ammonia.	Total Calculated as Ammonia.	Soluble in Water.	Citric Soluble.	Insoluble.	Total.	Total Available.						
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	\$ cts.			
2.00	2.40	4.00	4.00	2.00	10.00	5.00	5.00	12.44	25 02	1619	Miss E. Davidson.	
1.97	2.39	4.16	6.70	3.51	14.37	7.86	5.51					
5.88	7.14	2.08	12.47	4.63	19.18	14.55	0.55	9.20	36 36	1620	"	
3.15	3.82	6.00	2.87	1.00	9.46	8.18	10.00	10.71	31 33	1621	A. Lemoine.	
1.83	2.50	8.00	1.00	1.00	11.19	9.28	1.50	17.76	23 16	1622	"	
2.10	2.22	7.22	2.06	1.91	11.70	10.11	4.44	12.48	23 29	1623	"	
1.02	2.50	8.00	1.00	1.00	10.23	6.52	3.80	12.36	16 21	1624	"	
Tr.	1.00	8.00	1.41	3.71	10.23	6.52	3.95	12.36	16 21	1625	"	
Tr.	1.24	5.11	1.00	1.00	18.11	10.88	2.00	14.36	12 34	1626	"	
None.	Tr.	6.71	4.17	2.23	14.30	10.88	3.03	14.36	12 34	1627	"	
5.86	7.24	14.00	0.52	3.51	13.15	8.19	0.19	16.30	14 24	1628	J. G. A. Valin.	
5.74	6.97	10.36	0.44	7.75	11.84	8.19	0.56	6.70	10 08	1629	"	
7.28	8.84	0.33	6.30	3.32	10.04	6.72	0.35	6.75	32 07	1630	"	
					17.00					1631	"	
			14.14	3.00	17.14	14.14			17 65	1632	"	
2.94	3.50	5.24	3.21	7.03	8.00	8.45	3.00	15.60	24 18	1633	"	
	3.57				15.48		2.85			1634	"	
2.59	2.00				9.00		6.00			1635	"	
6.00	3.14	4.48	2.88	6.52	13.88	7.36	4.98	15.60	24 78	1636	"	
5.04	6.00	5.12	3.04	4.31	12.47	8.16	6.00	13.61	33 04	1637	Miss E. Davidson.	
	6.12						5.14			1638	"	

TABULATED STATEMENT of the Results of Analysis of 120 Standard

Number of Sample.	Designation.	Name of Manufacturer or Importer.	By whom sent.	From what Materials Produced.	---
1633	Freeman's Phosphate Powder.	The W. A. Freeman Co. Ltd., Hamilton.	Manufactures....	Phosphate, bone, tankage, sulphuric acid, muriate of potash, sulphate of potash, sulphate of ammonia and nitrate of soda.	Guaranteed contents Standard sample....
1634	Freeman's Potato Manure.	" ..	" ..	" ..	Guaranteed contents Standard sample....
1635	Freeman's Tankage Manure.	" ..	" ..	" ..	Guaranteed contents Standard sample....
1636	Freeman's Tobacco Manure.	" ..	" ..	" ..	Guaranteed contents Standard sample....
1637	Freeman's Pure Bone Meal.	" ..	" ..	" ..	Guaranteed contents Standard sample....
1638	Superphosphate of Lime.	Standard Fertilizer and Chemical Co., Ltd., Smith's Falls, Ont.	" ..	Mineral phosphates	Guaranteed contents Standard sample....
1639	Special Fertilizer....	" ..	" ..	Nitrate of soda, sulphate of ammonia, potash and magnesia salts, mineral superphosphates, bone char and fine bone meal.	Guaranteed contents Standard sample....
1640	Standard Fertilizer..	" ..	" ..	" ..	Guaranteed contents Standard sample....
1641	Star Fertilizer.....	" ..	" ..	" ..	Guaranteed contents Standard sample....
1642	No. 1 Fertilizer.....	" ..	" ..	" ..	Guaranteed contents Standard sample....
1643	Royal Fertilizer....	" ..	" ..	" ..	Guaranteed contents Standard sample....
1644	Nitrate of Soda.....	" ..	" ..	" ..	Guaranteed contents Standard sample....
1645	Superphosphate.....	Mr. Thomas Reid, Parish of St. Simonds, N.B.	" ..	Bone meal, spent char, fish dealers refuse, phosphate rock, oil vitriol, sand plaster, kainite, salt and sulphate of ammonia.	Guaranteed contents Standard sample....
1646	Bradley's Superphosphates for Orchards.	American Agricultural Chemical Co., Boston.	Boston Sales Dept. Boston.	Bone black, animal bone, phosphatic guanos, sulphate or muriate of potash.	Guaranteed contents Standard sample....
1647	Bradley's Potato Fertilizer.	" ..	" ..	" .. and dry fish, meat or blood, nitrate of soda, sulphate of ammonia, sulphuric acid.	Guaranteed contents Standard sample....

Samples of Commercial Fertilizers, registered for 1905—Continued.

RESULTS OF ANALYSIS.										Name of Analyst and Number of Sample.
Nitrogen.		Phosphoric Acid.					Pot- ash.	Mois- ture.	Relative value per Ton of 2,000 lbs	
Total in- cluding Nitric Acid and Am- monia.	Total calculat- ed as Am- monia.	Soluble in Water.	Citric Soluble.	In- sol- uble.	Total.	Total Avail- able.				
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	\$ cts.	
			13.50	4.79	15.00	18.29	13.50	10.08	16.29	1633 Miss E. Davidson.
	3.00				8.00		5.00			1634
2.80	3.40	6.67	2.73	5.59	14.39	8.80	5.56	14.72	27.04	"
	5.00				12.00					1635
7.11	8.63		13.74	2.72	16.46	13.74		7.20	38.68	"
	6.00				7.00		7.00			1636
4.90	5.95	5.76	2.71	4.80	13.27	8.47	6.40	13.96	27.99	"
	3.00				23.00					1637
1.10	4.98		17.58	5.44	23.02	17.58		5.56	34.09	"
		11.38	2.18	4.90	18.55	13.56		7.20	17.55	1638 A. Lemoine.
	3.50	8.00			16.00		6.00			1639
3.29	3.99	7.54	1.93	2.55	12.02	9.47	7.25	12.36	30.37	"
	2.50	9.00			11.00		2.00			1640
2.73	3.31	6.90	2.37	3.39	12.66	9.27	2.10	9.08	23.22	Miss E. Davidson.
	2.00					5.00	2.00			1641
1.96	2.38	3.00	2.12	1.59	6.71	5.12	2.33	2.08	15.40	"
	1.50	9.00			12.00		1.00			1642
1.40	1.70	6.27	2.49	3.39	12.15	8.76	1.83	11.04	17.87	"
	2.00					8.00	3.00			1643
1.26	1.53	4.67	3.45	2.11	10.23	8.12	3.07	5.72	17.39	"
	18.00									1644
14.42	17.50							0.55	49.02	J. G. A. Valin.
										1645
2.88	3.50	3.20	8.96	6.20	18.36	12.16	3.75	20.80	29.10	"
						14.00				1646
		8.76		1.67	10.43	8.76		13.20	11.01	"
										1647
2.06	2.60	5.00	3.00	2.00	10.00	8.00	3.00			"
1.40	1.70	7.16	0.33	4.79	12.28	7.49	3.37	13.30	18.52	"

TABULATED STATEMENT of the Results of Analysis of 120 Standard

Number of Samples.	Designation.	Name of Manufacturer or Importer.	By whom sent.	From what Materials Produced.	—
1648	Bradley's N.L. Superphosphate of lime.	American Agricultural Chemical Co., Boston.	Boston Sales Dept. Boston.	Bone black, animal bone, phosphatic guanos, sulphate or muriate of potash.	Guaranteed contents Standard sample....
1649	Bradley's Farmers' New Method Fertilizer.	" ..	" ..	" and dry fish, meat or blood, nitrate of soda, sulphate of ammonia, sulphuric acid.	Guaranteed contents Standard sample....
1650	Bradley's Fine Ground Bone.	" ..	" ..	" ..	Guaranteed contents Standard sample ..
1651	Bradley's Eclipse Phosphate.	" ..	" ..	" ..	Guaranteed contents Standard sample ..
1652	Bradley's Eureka Fertilizer.	" ..	" ..	" ..	Guaranteed contents Standard sample ..
1653	Bradley's Alkaline Bone with Potash.	" ..	" ..	Bone black, bone or phosphate guano, muriate or sulphate of potash.	Guaranteed contents Standard sample ..
1654	Bradley's Complete Manure with ten per cent Potash.	" ..	" ..	" and dry fish, meat or blood, nitrate of soda or sulphate of ammonia and sulphuric acid.	Guaranteed contents Standard sample....
1655	Read's Standard Superphosphate.	" ..	" ..	" ..	Guaranteed contents Standard sample ..
1656	Read's Sure Catch Fertilizer.	" ..	" ..	Bone black, bone or phosphate guano, muriate of sulphate of potash.	Guaranteed contents Standard sample....
1657	Read's Fish Bone and Potash.	" ..	" ..	" and dry fish, meat or blood, nitrate of soda or sulphate of ammonia and sulphuric acid.	Guaranteed contents Standard sample....
1658	Tucker's Imperial Bone Superphosphate.	" ..	" ..	" ..	Guaranteed contents Standard sample ..
1659	Williams & Clarke's American Potato Manure.	" ..	" ..	" ..	Guaranteed contents Standard sample ..
1660	Pacific Potato Special.	" ..	" ..	" ..	Guaranteed contents Standard sample....
1661	Pacific Nobisque Guano.	" ..	" ..	" ..	Guaranteed contents Standard sample ..
1662	Pacific Fine Ground Bone.	" ..	" ..	" ..	Guaranteed contents Standard sample ..
1663	Soluble Pacific Guano	" ..	" ..	" ..	Guaranteed contents Standard sample ..
1664	Quinnipiac Climax Phosphate for all Crops.	" ..	" ..	" ..	Guaranteed contents Standard sample....

Samples of Commercial Fertilizers, registered for 1905—Continued.

RESULTS OF ANALYSIS.										Relative value per Ton of 2,000 lbs.	Name of Analyst and Number of Sample.	
Nitrogen.		Phosphoric Acid.					Potash.	Moisture.				
Total including Nitric Acid and Ammonia.	Total calculated as Ammonia.	Soluble in Water.	Citric Soluble.	In-soluble.	Total.	Total Available.						
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	\$ cts.			
2.06	2.50	5.00	3.00	2.00	10.00	8.00	1.50	.....	.....	1648
1.26	1.53	7.48	.....	4.28	11.76	7.48	2.99	15.40	17.50	J. G. A. Valin.	
1.03	1.25	6.00	2.00	2.00	10.00	8.00	2.00	.....	.....	1649
1.68	2.34	6.84	0.11	4.24	11.19	6.95	2.62	14.35	17.93	"		
2.47	3.00	.....	.....	.....	22.00	.....	.....	.....	.....	1650
2.94	3.57	.....	15.62	10.04	25.66	15.62	.....	2.45	29.70	"
1.03	1.25	6.00	2.00	2.00	10.00	8.00	2.00	.....	.....	1651
1.44	1.75	4.48	2.41	3.61	10.43	6.92	2.41	14.10	16.42	"		
1.03	1.25	6.00	2.00	2.00	10.00	8.00	2.00	.....	.....	1652
1.33	1.61	3.84	3.20	3.64	10.68	7.04	1.89	13.85	15.63	"		
.....	.....	6.00	5.00	1.00	12.00	11.00	2.00	.....	.....	1653
0.28	0.34	6.07	4.10	2.87	13.04	10.17	2.24	13.77	15.84	"		
3.30	4.00	4.00	2.00	1.00	7.00	6.00	10.00	.....	.....	1654
2.91	3.51	5.11	2.24	1.60	8.95	7.35	11.78	11.50	30.75	"		
0.82	1.00	5.00	3.00	2.00	10.00	8.00	4.00	.....	.....	1655
1.12	1.36	4.93	2.82	2.68	10.43	7.75	3.77	9.65	17.40	"		
.....	.....	.....	.....	.....	12.00	10.00	2.00	.....	.....	1656
1.82	2.21	6.71	2.38	4.47	13.56	9.09	2.00	13.48	20.20	"		
2.00	2.40	.....	.....	.....	.....	4.00	4.00	.....	.....	1657
1.96	2.38	7.22	1.29	3.83	12.34	8.51	4.75	12.72	22.65	"		
1.03	1.25	6.00	2.00	2.00	10.00	8.00	2.00	.....	.....	1658
1.54	1.87	5.43	1.29	4.47	11.19	6.72	2.02	14.16	16.53	"		
2.06	2.50	5.00	3.00	2.00	10.00	8.00	3.00	.....	.....	1659
2.10	2.55	7.03	1.92	4.03	12.96	8.95	2.02	13.55	20.92	"		
2.06	2.50	5.00	3.00	2.00	10.00	8.00	3.00	.....	.....	1660
2.10	2.55	7.35	0.84	4.47	12.66	8.19	3.12	13.68	21.34	"		
1.03	1.25	6.00	2.00	2.00	10.00	8.00	2.00	.....	.....	1661
1.54	1.87	4.79	3.21	3.19	11.19	8.00	1.91	14.04	17.38	"		
2.47	3.00	.....	.....	.....	22.00	.....	.....	.....	.....	1662
2.88	3.50	.....	13.12	15.66	28.78	13.12	.....	4.88	28.35	"
2.06	2.50	5.00	3.00	2.00	10.00	8.00	1.50	.....	.....	1663
1.76	2.14	6.87	2.41	2.55	11.83	9.28	2.45	15.49	20.10	Miss E. Davidson.		
1.03	1.25	6.00	2.00	3.00	10.00	9.00	2.00	.....	.....	1664
1.47	1.79	3.84	4.63	3.84	12.31	8.47	2.62	14.08	18.47	"		

TABULATED STATEMENT of the Results of Analysis of 120 Standard

No. of Sample.	Designation.	Name of Manufacturer or Importer.	By whom sent.	From what Materials Produced.	---
1665	Cumberland Super-phosphate.	American Agricultural Chemical Co., Boston.	Boston Sales Dept. Boston.	Bone black, bone phosphate guano, nitrate or sulphate of potash.	Guaranteed contents Standard sample....
1666	Cumberland Potato Fertilizer.	" " "	" " "	" " and dry fish, meat or soda or sulphate of ammonia and sulphuric acid.	Guaranteed contents Standard sample....
1667	Cumberland Fine Ground Bone.	" " "	" " "	" " "	Guaranteed contents Standard sample....
1668	Cumberland Grass and Grain Fertilizer.	" " "	" " "	" " "	Guaranteed contents Standard sample....
1669	Read's Practical Potato Special.	" " "	" " "	" " "	Guaranteed contents Standard sample....
1670	Concentrated Soluble Horticultural Manure, Brand A G.	Chemical Works, late H. & E. Albert, Biebrich on Rhine.	The Anglo Canadian Chem. Co., St. John, N.B.	" " "	Guaranteed contents Standard sample....
1671	New England Potato Fertilizer.	New England Fertilizer Co., Boston, Mass.	Manufacturers....	Blood, meat, bone black, bone phosphate, nitrate of soda or sulphate of ammonia and sulphate or muriate of potash.	Guaranteed contents Standard sample....
1672	New England Corn Phosphate.	" " "	" " "	" " "	Guaranteed contents Standard sample....
1673	New England Corn and Grain.	" " "	" " "	" " "	Guaranteed contents Standard sample....
1674	Swift's Lowell Bone Fertilizer.	Swift's Lowell Fertilizer Co., Boston.	" " "	Blood, meat, bone black, bone phosphate, nitrate of soda or sulphate of ammonia and sulphate or muriate of potash.	Guaranteed contents Standard sample....
1675	Swift's Lowell Potato Manure.	" " "	" " "	" " "	Guaranteed contents Standard sample....
1676	Swift's Lowell Potato Phosphate.	" " "	" " "	" " "	Guaranteed contents Standard sample....
1677	Swift's Lowell Animal Brand.	" " "	" " "	" " "	Guaranteed contents Standard sample....
1678	Swift's Lowell Ground Bone.	" " "	" " "	" " "	Guaranteed contents Standard sample....
1679	Bradley's New Method Fertilizer.	American Agricultural Chemical Co., Boston.	Buffalo Sales Dept., Buffalo.	Animal matter (blood, bone and tankage) mineral phosphate and potash, all treated with sulphuric acid.	Guaranteed contents Standard sample....

Samples of Commercial Fertilizers, registered for 1905—Continued.

RESULTS OF ANALYSIS.										Relative value per Ton of 2,000 lbs	Name of Analyst and Number of Sample.
Nitrogen.		Phosphoric Acid.					Pot-ash.	Mois-ture.			
Total in-cluding Nitric Acid and Am-monia.	Total calculated as Am-monia.	Soluble in Water.	Citric Soluble.	In-sol-uble.	Total.	Total Avail-able.					
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	\$ cts.		
2.06	2.50	5.00	3.00	2.00	10.00	8.00	1.50	.....	.....	1665
1.82	2.21	7.03	2.89	2.07	11.99	9.92	2.37	15.04	20 81	Miss E. Davdson.	
2.06	2.50	5.00	3.00	2.00	10.00	8.00	3.00	.....	.....	1666
1.78	2.16	6.55	1.77	3.83	12.15	8.32	3.93	13.48	20 94	"	
2.47	3.00	.....	.....	.....	22.00	.....	.....	.....	.....	1667
2.81	3.41	.....	22.54	5.28	27.82	22.54	.....	4.48	35 37	"
1.03	1.25	6.00	2.00	2.00	10.00	8.00	2.00	.....	.....	1668
1.47	1.78	3.96	2.95	3.32	10.23	6.91	1.56	14.15	15 55	J. G. A. Valin.	
0.82	1.00	2.00	2.00	1.00	5.00	4.00	8.00	.....	.....	1669
0.70	0.85	3.52	2.69	2.55	8.76	6.21	7.14	12.90	17 47	"	
12.04	.....	11.83	.....	.....	.....	.....	19.85	.....	.....	1670
10.78	13.09	13.88	.....	0.32	14.20	13.88	16.16	1.90	67.41	"
.....	2.00	.....	.....	.....	8.00	7.00	4.00	.....	.....	1671
2.03	2.46	4.79	2.70	1.91	9.40	7.49	3.78	14.00	19 97	"	
.....	2.00	.....	.....	.....	9.00	8.00	3.00	.....	.....	1672
1.40	1.70	7.80	0.84	1.59	10.23	8.64	3.49	11.40	19 01	"	
.....	1.50	.....	.....	.....	8.00	7.00	2.00	.....	.....	1673
1.61	1.95	6.52	0.64	2.11	9.27	7.16	2.85	7.95	17 48	"	
.....	2.00	.....	.....	.....	9.00	8.00	3.00	.....	.....	1674
1.98	2.41	7.03	1.41	2.43	10.87	8.44	3.92	13.24	20 87	A. Lemoine.	
.....	2.00	.....	.....	.....	8.00	7.00	4.00	.....	.....	1675
1.98	2.41	5.95	1.38	2.55	9.78	7.23	4.34	10.76	20 89	"	
.....	3.00	.....	.....	.....	9.00	8.00	6.00	.....	.....	1676
2.68	3.26	6.27	2.37	2.23	10.87	8.64	6.68	10.88	26 59	"	
.....	3.00	.....	.....	.....	10.00	9.00	4.00	.....	.....	1677
2.74	3.72	6.39	2.83	2.48	11.70	9.22	5.15	10.64	24 99	"	
.....	3.00	.....	.....	.....	25.00	.....	.....	.....	.....	1678
2.70	3.28	.....	17.73	8.50	26.23	17.73	Tr.	3.84	30 69	"
0.82	1.00	6.00	2.00	1.00	9.00	8.00	2.00	.....	.....	1679
1.05	1.27	6.59	1.40	4.03	12.02	7.99	2.35	13.44	16 57	J. G. A. Valin.	

TABULATED STATEMENT of the Results of Analysis of 120 Standard

Number of Sample.	Designation.	Name of Manufacturer or Importer.	By whom sent.	From what Materials Produced.	Guaranteed contents Standard sample....
1680	Bradley's Complete Manure for Potatoes and Vegetables.	American Agricultural Chemical Co., Boston.	Buffalo Sales Dept. Buffalo.	Animal matter (blood, bone and tankage) mineral phosphate and potash, all treated with sulphuric acid.	Guaranteed contents Standard sample....
1681	Special Potash Mixture.	" "	" " "	" " "	Guaranteed contents Standard sample....
1682	High Grade Potash Compound.	" "	" " "	" " "	Guaranteed contents Standard sample....
1683	Crocker's New York Special.	" "	" " "	" " "	Guaranteed contents Standard sample....
1684	Crocker's Wheat and Corn Fertilizer.	" "	" " "	" " "	Guaranteed contents Standard sample....
1685	Crocker's Cabbage and Potato Manure	" "	" " "	" " "	Guaranteed contents Standard sample....
1686	Bradley's B. D. Sea fowl Guano.	" "	" " "	" " "	Guaranteed contents Standard sample....
1687	Potato Phosphate...	Provincial Chemical Fertilizer Co., St. John, N.B.	Manufacturers....	Meat, tankage, bone char, fish scrap, sulphate of potash and sulphate of ammonia.	Guaranteed contents Standard sample....
1688	Imperial Superphosphate.	" "	" " "	" " "	Guaranteed contents Standard sample....
1689	Victor Guano.....	" "	" " "	" " "	Guaranteed contents Standard sample....
1690	Bone Meal.....	" "	" " "	" " "	Guaranteed contents Standard sample....
1691	Blood, Bone and Potash.	" "	" " "	" " "	Guaranteed contents Standard sample....
1692	Potato Phosphate...	Nova Scotia Fertilizer Co., Halifax, N.S.	" " "	Bone char, bone, dried blood, tankage, meat, fish, bone phosphates, sulphate of ammonia, nitrate of soda, high grade muriate of potash or sulphate of potash and sulphuric acid.	Guaranteed contents Standard sample....
1693	Ceres Superphosphate.	" "	" " "	" " "	Guaranteed contents Standard sample....
1694	Bone Meal.....	" "	" " "	" " "	Guaranteed contents Standard sample....
1695	Fruit Tree Fertilizer.	" "	" " "	" " "	Guaranteed contents Standard sample....
1696	Southern Guano....	" "	" " "	" " "	Guaranteed contents Standard sample....
1697	Brand 'H' Fertilizer	Messrs. W. Harris & Co., Toronto.	" " "	" " "	Guaranteed contents Standard sample....
1698	Bone Meal.....	" "	" " "	" " "	Guaranteed contents Standard sample....

Samples of Commercial Fertilizers, registered for 1905—Continued.

RESULTS OF ANALYSIS.										Relative value per Ton of 2,000 lbs.	Name of Analyst and Number of Sample.	
Nitrogen.		Phosphoric Acid.					Free ash.	Moisture.	p.c.			\$ cts.
Total including Nitric Acid and Ammonia.	Total calculated as Ammonia.	Soluble in Water.	Citric Soluble.	In-soluble.	Total.	Total Available.						
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
3.29	4.00	6.00	2.00	1.00	9.00	8.00	7.00			1080		
3.44	4.18	7.03	0.65	2.55	10.23	7.68	8.08	13.12	29.67	Miss E. Davidson.		
0.82	1.00	7.00	2.00	1.00	10.00	9.00	7.00			1681		
0.84	1.02	7.51	1.45	3.19	12.15	8.08	8.40	11.88	22.91	"		
1.65	2.00	6.00	2.00	1.00	9.00	8.00	10.00			1682		
1.61	1.96	8.15	1.13	2.39	11.67	9.28	9.86	9.52	26.73	"		
tr.	tr.	8.00	2.00	1.00	11.00	10.00	8.00			1683		
2.06	2.50	6.00	3.36	3.35	13.59	10.24	7.23	10.56	20.18	"		
2.07	2.52	6.00	2.00	1.00	9.00	8.00	1.50			1684		
2.47	2.52	6.87	2.57	3.51	12.85	9.44	2.54	11.60	21.70	"		
2.17	3.00	6.00	2.00	1.00	9.00	8.00	6.00			1685		
2.17	2.64	6.39	3.69	1.91	11.99	10.08	6.87	9.64	20.55	"		
2.06	2.50	6.00	2.00	1.00	9.00	8.00	1.50			1686		
2.17	2.63	6.27	3.13	3.71	13.11	9.40	1.95	10.24	21.41	A. Lemoine.		
	2.50					8.00	1.50			1687		
24	2.72	7.99	1.61	5.11	14.71	9.60	8.14	7.44	28.64	"		
	3.00					10.50	1.50			1688		
2.66	3.23	8.18	1.61	5.43	15.22	9.79	1.77	6.36	24.03	"		
	2.00					7.00	2.50			1689		
1.68	2.00	8.31	2.25	5.43	15.99	10.56	3.53	8.76	23.32	"		
	3.10				24.14					1690		
3.43	4.16		20.35	2.87	23.22	20.35		7.48	34.22	"		
	2.00					7.00	4.00			1691		
1.82	2.41	7.90	1.61	4.79	14.39	9.60	4.86	8.44	23.86	"		
	3.00				10.00		6.00			1692		
2.59	3.15	7.03	1.45	0.95	9.43	8.48	5.04	11.88	24.76	Miss E. Davidson.		
	2.00				11.00		2.00			1693		
2.10	2.55	8.95	0.65	1.43	11.03	9.60	4.53	13.28	23.55	"		
	3.00									1694		
3.27	3.87	0.00	13.71	8.15	21.86	13.71		7.84	27.99	Miss E. Davidson.		
	3.00				8.00		6.00			1695		
2.53	3.06	6.55	1.44	1.12	9.11	7.99	6.36	11.48	24.76	"		
	2.00				7.00		3.00			1696		
2.24	2.72	7.99	1.77	1.11	10.87	9.76	4.86	12.00	24.34	"		
										1697		
7.96	9.69	1.47	5.88	1.28	8.63	7.35	1.06	11.56	36.81	A. Lemoine.		
										1698		
4.06	4.93		12.61	7.54	20.15	12.61	Trace.	7.40	29.12	"		

TABULATED STATEMENT of the Results of Analysis of 120 Standard

Number of Sample.	Designation.	Name of Manufacturer or Importer.	By whom sent.	From what Materials Produced.	Guaranteed contents Standard sample....
1699	Muriate of Potash...	Victoria Chemical Co. Ltd., Victoria, B.C.	Imported from Germany.	Bone char, bone, dried blood, tankage, meat, fish, bone phosphates, sulphate of ammonia, nitrate of soda, high grade muriate of potash or sulphate of potash and sulphuric acid.	Guaranteed contents Standard sample....
1700	Kainite	"	"	"	Guaranteed contents Standard sample....
1701	Sulphate of Potash...	"	"	"	Guaranteed contents Standard sample....
1702	Thomas' Phosphate Powder.	"	"	"	Guaranteed contents Standard sample....
1703	Nitrate of Soda....	"	Imported from Chili.	"	Guaranteed contents Standard sample....
1704	Superphosphate of Lime.	"	"	Made by treating spent bone char with sulphuric acid.	Guaranteed contents Standard sample....
1705	Fertilizer 'A' ..	"	"	This is made by mixing nitrate of soda, muriate of potash and superphosphate of lime	Guaranteed contents Standard sample ..
1706	Fertilizer 'B'.....	"	"	"	Guaranteed contents Standard sample
1707	Fertilizer 'C'.....	"	"	A mixture of muriate of potash and superphosphate of lime.	Guaranteed contents Standard sample ...
1708	Eureka Phosphate ..	Pigeon Fertilizer Co., Windsor, N.S.	Manufacturer.....	Ground Bone, Acid Phosphate, Nitrate of Soda Meat and Muriate of Potash.	Guaranteed contents Standard sample....
1709	Intense Brand.	"	"	"	Guaranteed contents Standard sample....
1710	Potato Manure	"	"	"	Guaranteed contents Standard sample ...
1711	Ground Bone.....	"	"	"	Guaranteed contents Standard sample....
1712	Orcard Fertilizer ..	"	"	"	Guaranteed contents Standard sample ...
1713	Thomas' Phosphate Flour.	Campbell Arnott & Co., 114 Victoria St., Toronto.	Mr. Geo. C. Arnott, Toronto.	"	Guaranteed contents Standard sample....
1714	Concentrated Soluble Manure.	"	"	"	Guaranteed contents Standard sample....
1715	Homestead 'A' Bone Black Fertilizer.	Michigan Carbon Works, Detroit.	Manufacturer.....	"	Guaranteed contents Standard sample....

Samples of Commercial Fertilizers, registered for 1905—Continued.

RESULTS OF ANALYSIS.											Name of Analyst and Number of Sample.
Nitrogen.		Phosphoric Acid.					Pot. ash.	Moisture.	Relative Value per Ton of 2,000 lbs.		
Total in- cluding Nitric Acid and Am- monia.	Total Calcul- ated as Am- monia.	Soluble in Water.	Citric Soluble.	Insol- uble.	Total.	Total Avail- able.					
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	% cts.		
							50.00				1699
							49.36	4.20	49.36		A. Lemoine.
							12.00				1700
							12.16	6.56	12.16		"
							50.00				1701
							42.19	1.44	42.19		Miss E. Davidson.
					16.00						1702
				15.99	4.15	20.14	15.99	0.05	20.40		"
16.00											1703
12.57	15.26								42.74		"
					16.00						1704
		10.87	3.37	1.43	15.67	14.24		13.80	17.18		"
4.00					10.00		7.00				1705
3.15	3.83	7.20	2.06	0.79	10.07	9.28	10.03	14.28	31.91		"
3.50					9.00		11.00				1706
2.87	3.49	8.00	1.59	0.64	10.23	9.59	11.81	10.28	33.11		"
					12.50		11.00				1707
0.35	0.42	12.66	0.13	2.43	15.22	12.79	11.97	11.04	29.22		A. Lemoine.
	2.50						8.00	2.00			1708
2.24	2.72	6.07	2.56	4.03	12.66	8.63	2.53	14.64	21.45		A. Lemoine.
	3.50				7.00		4.50				1709
2.45	2.97	7.03	0.65	2.55	10.23	7.68	5.23	13.76	23.47		"
	3.70					8.00	4.70				1710
2.38	2.89	7.35	1.92	2.75	12.02	9.27	4.77	13.04	24.62		"
	3.00				20.00						1711
3.15	3.82		10.83	11.83	22.71	10.88	1.15	5.96	29.09		"
					6.00		11.00				1712
Traces.	Traces.	5.12	2.72	0.63	8.47	7.84	11.41	12.64	20.73		Miss E. Davidson.
					18.00						1713
			19.03	4.47	23.50	19.03			24.06		"
	13.25						12.50	18.00			1714
11.82	14.35	12.79	1.12	0.48	14.39	13.91	17.75	3.48	74.67		"
2.06	2.50					9.00	8.00	1.50			1715
2.18	2.65	8.15	0.81	1.59	10.55	8.96	1.81	19.28	20.37		"

TABULATED STATEMENT of the Results of Analysis of 120 Standard

Number of Sample.	Designation.	Name of Manufacturer or Importer.	By whom sent.	From what Materials Produced.	
1716	Homestead Potato and Tobacco Fertilizer.	Michigan Carbon Works, Detroit.	Manufacturer.....		Guaranteed contents Standard sample....
1717	Desiccated Bone ...	" ..	" ..		Guaranteed contents Standard sample....
1718	Homestead High Grade Garden and Vegetable Fertilizer.	" ..	" ..		Guaranteed contents Standard sample....
1719	Gregory's Special Tobacco Guano.	" ..	" ..		Guaranteed contents Standard sample....
1730	Ground Bone.....	Pidgeon Fertilizer Co., Ltd., Windsor, N.S.	" ..		Guaranteed contents Standard sample....
1731	Peruvian Guano ....	.....	Rufus R. Gage, Hamilton, Ont.		Guaranteed contents Standard sample....
1722	"Victor Ferland Fertilizer."	.....	Mathias O. Ferland, Berthier, P.Q.		Guaranteed contents Standard sample....

Samples of Commercial Fertilizers, registered for 1905—*Concluded.*

RESULTS OF ANALYSIS.										Relative value per Ton of 2,000 lbs	Name of Analyst and Number of Sample.
Nitrogen.		Phosphoric Acid					Pot. ash.	Mois- ture.			
Total in- cluding Nitric Acid and Am- monia.	Total calcu- lated as Am- monia.	Soluble in Water.	Citric Soluble.	In- soluble.	Total.	Total Avail- able.					
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	8 cts.		
2.06	2.50				9.00	8.00	3.00		1716		
2.13	2.58	8.95	0.65	1.50	11.19	9.60	3.30	17.64	22.47	Miss E. Davidson.	
	1.50				25.00				1717		
1.95	2.28		19.66	12.79	32.45	19.66		3.60	31.74	"	
2.00	2.59					8.00	6.00		1718		
3.24	3.98	7.99	0.17	0.79	8.95	8.16	6.92	15.86	27.95	"	
	3.00					8.00	4.00		1719		
2.68	3.23	7.30	0.64	0.95	8.79	7.84	4.03	18.00	22.70	"	
2.80	3.40		25.14	3.32	28.46	25.14		18.80	37.56	1720	
										J. G. A. Valis.	
	3.00				18.00		3.00		1821		
2.80	3.40	5.56	4.01	11.86	21.43	9.57	3.07	10.95	27.23	"	
	3.00				5.00		9.00		1722		
3.44	4.28	2.55	3.21	6.07	11.83	5.76	3.22	9.50	23.32	"	



