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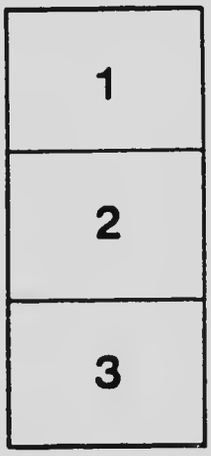

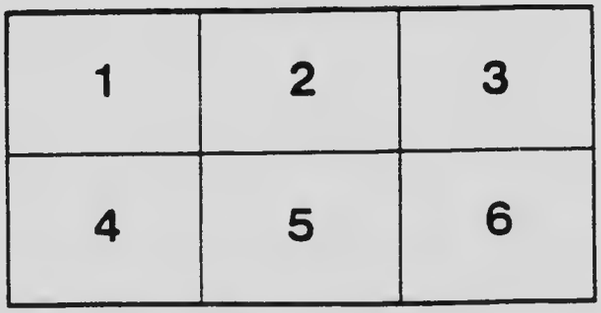

O. H. M. S.

W. J. Gerald

Deputy Minister.

LABORATORY

OF THE

INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

BULLETIN No. 182

STANDARD FERTILIZERS, 1909

4345—1

LABORATORY

OF THE

INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

BULLETIN No. 182

STANDARD FERTILIZERS 1909

AND

THE FERTILIZERS ACT, 1909.

OTTAWA, July 13, 1909.

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

SIR,—I beg to hand you a report upon 182 samples of Commercial Fertilizers sent in as standards to represent the different brands offered on the Canadian market during the season of 1909. This is in accordance with the requirements of section 3 of the Fertilizers Act of 1890.

This will be the last issue of a Bulletin of this description. The Fertilizers Act of 1909 comes into force with the beginning of 1910; and renders the publication of standards unnecessary. In order to give as wide distribution as possible to the new Act, it is published in full in this bulletin.

One of the reasons for discontinuing the publication of standards is the practical impossibility of securing the necessary data in time to be of service to intending purchasers of fertilizers. Reference to the date of registration of the samples now reported will illustrate this.

It will be seen that, with very few exceptions, the samples sent in by manufacturers fully meet the claims made for them. This is as might be expected, and is a matter of much less importance to the farmer than that the samples *as offered in the market* should come up to the claims made for them. By filing with the department a sample containing less fertilizing material than claimed on the label, the manufacturer incurs no penalty, since he does not effect any sale by his action. Of course it is only by unintentional oversight, or by error in mixing that a manufacturer fails to send this department a sample fully up to his guarantee.

It may be well to point out briefly the main features of the new Fertilizers Act.

1. Every fertilizer must be registered, and the registration number must be affixed to every package or parcel sold.

2. The registration number remains constant, for the same fertilizer, from year to year.

3. The manufacturer must attach a statement to every package guaranteeing definite amounts of nitrogen, phosphoric acid and potash.

4. Departmental inspectors will purchase samples of all brands of fertilizers offered on the market. These will be analysed, and the results published annually. Users of fertilizers will be able to know, from this publication, whether the manufacturer lives up to his guarantee or not.

5. Should any purchaser wish to have a special analysis of a registered fertilizer as furnished to him, he may get such analysis at a nominal fee of one dollar. His sample must be taken in such a way as to fairly protect the vendor. The registration numb r under which sold, enables easy and certain identification to be made.

6. Any purchaser who causes a fertilizer to be specially made to his order, can have such fertilizer analysed, but it will cost him five dollars.

7. Fertilizers imported for use, and not for sale, are not inspected under the Act. The importer may have an analysis made, but it will cost him five dollars.

8 In reports of fertilizer analysis, it has been the custom to introduce a statement of the relative value of the fertilizer based upon the content in phosphoric acid, nitrogen and potash. This feature will be discontinued, because of the facts, (1) That trust worthy relative values for the different ingredients of a fertilizer cannot be obtained. (2) that the value of a fertilizer is not solely dependent upon the cost of materials entering into its composition. The character of the crop and the nature of the soil are very important factors in determining the value of a fertilizer in use, and the cost of labour and transportation, as well as the degree of perfection attained in grinding and in mixing are elements of value which are not connotated in the calculation of relative values. (3) That the so-called *relative values* hitherto published have been made use of by salesmen, to the injury of purchasers of fertilizers. This has been done by reading into these numbers meanings which they were not intended to carry.

I may further add, that in spite of every precaution taken by the framers of a Fertilizer Inspection Act, and in spite of the utmost care by an executive department in its administration, true economy in the employment of fertilizers makes demands upon the intelligence of the farmer. It is necessary that he should acquaint himself with the terms used in describing fertilizers: with the needs of plants and with the nature of soils. The man who reads and thinks and who is willing to do some experimental work on his own fields, is the man who can afford to use fertilizers because he will use them intelligently.

The text of the new Fertilizers Act is appended to this report; and fertilizer inspection in 1910 will be carried out under its requirements.

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

A. McGILL,
Chief Analyst.

8-9 EDWARD VII.—CHAP 16.

An Act respecting Agricultural Fertilizers.

[*Assented to 19th May, 190[illegible].*]

His Majesty, by and with the advice and consent of the Senate and House of Commons of Canada, enacts as follows :—

1. This Act may be cited as *The Fertilizers Act, 1909.* Short title.

2. In this Act, unless the context otherwise requires,— Definitions.

(*a*) "Minister" means the Minister of Inland Revenue ; "Minister."

(*b*) "fertilizer" includes every natural or artificial manure containing phosphoric acid, or nitrogen, or potash, except ordinary stable manure ; "Fertilizer."

(*c*) "registration number" means the specific number given by the Minister, under this Act, to each brand of fertilizer ; "Registration number."

(*d*) "agent" means any person whose name has been filed with the Minister as provided in section 4 of this Act ; "Agent."

(*e*) "guaranteed analysis" means the valuation of a fertilizer by the manufacturer or agent in terms of its content of phosphoric acid, nitrogen and potash. "Guaranteed analysis."

3. Fertilizers shall be considered as of distinct brands when differing either in guaranteed composition, trade mark, name, or in any other characteristic method of marking. Distinct brands.

4. Where the manufacturer of any fertilizer has his factory or chief place of business elsewhere than in Canada, he shall file with the Minister the name of a person resident in Canada, and acceptable to the Minister, or a corporation having its head office in Canada, as the agent or representative of such manufacturer for all the purposes of this Act ; and any notice to, or communication or dealing with, such agent or representative by the Minister shall be effectual for all the purposes of this Act. Name of foreign manufacturer's agent or representative in Canada to be filed with Minister.

2. In default of such filing, the Minister may take any proceeding or action under this Act *ex parte*, and without any notice to or communication with such person or corporation. Default of filing.

5. Every brand of fertilizer offered for sale in Canada shall bear a registration number, which shall be permanently assigned to the particular brand or species of fertilizer for which it is issued. The number shall be granted by the Minister on the application of the manufacturer of such brand of fertilizer, or his agent, and on payment of a fee of two dollars. Registration number. Fee.

6. Every application for a registration number shall be accompanied by a statement giving the following particulars :— Application for registration number.

(*a*) Name of brand for which the registration number is asked, and trade mark, if any ;

(*b*) Name and address of manufacturer ;

(*c*) Name and address of the person applying for registration ;

(*d*) Guaranteed analysis ;

(*e*) Materials from which the fertilizer is made.

7. The registration number must be affixed by the manufacturer, or his agent, in a plain and legible manner, to every package of fertilizer sold or offered for sale, and shall constitute an identification of the brand. In addition to the registration number there must be legibly printed, on every package of fertilizer sold, the statement set out in schedule A to this Act. This condition shall be held to be fulfilled if a printed tag, bearing the registration number and the statement required, is securely attached to the package. Registration number: how affixed. Statement required.

Notice of change of formula and application for new number.

8. If a manufacturer elects to change the formula or composition of any fertilizer for which a registration number has been granted, he shall notify the Minister to that effect, and shall apply for a new registration number to designate the new or altered fertilizer, and the former registration number shall be cancelled, and shall not be reissued.

Annual license to sell.

9. No manufacturer of a fertilizer, and no agent of any such manufacturer, shall sell or offer for sale any fertilizer, as defined by section 2 of this Act, unless he has a license under this Act authorizing the sale thereof.

Fee.

2. Upon application of any such manufacturer or his agent, and upon payment of a fee of five dollars therefor, the Minister may grant a license authorizing the sale of such brands of fertilizers as are named in the license.

Period of validity.

3. Such license shall be in such form as the Minister prescribes and shall confer authority to sell during the calendar year in which the license is issued.

Renewal.

4. The Minister may renew any such license from year to year.

Purchaser of registered fertilizer may obtain analysis.

Fee.

10. Any purchaser of a registered fertilizer as delivered to him, by making application for such analysis, accompanied by a sample of the fertilizer of at least one pound weight, and taken in accordance with the directions given in schedule B to this Act and on payment of a fee of one dollar.

Certain officers to act as inspectors.

R.S., c. 133.

11. The officers of Inland Revenue, the officers of Customs, the inspectors and deputy inspectors of weights and measures, and the inspectors of food, drugs and agricultural fertilizers acting under *The Adulteration Act* shall, when required so to do by any regulation made in that behalf by the Governor in Council or the Minister, act as inspectors of fertilizers, and shall procure and submit for analysis samples of fertilizers offered for sale in Canada.

Inspectors to procure samples for analysis.

Analysis and publication of results.

12. Every inspector of fertilizers shall, whenever instructed by the Minister so to do, obtain for analysis a sample of every fertilizer for sale in the district for which such inspector is appointed.

2. Every sample so obtained shall be transmitted to the Minister for submission to the chief analyst for analysis; and the result of all such analyses shall be published annually by the Minister in such manner as he sees fit, together with such other information pertaining to fertilizers as he deems it desirable should be published.

Fertilizers imported for personal use.

Analysis.

13. If any fertilizer is imported for the personal use of the importer, and not for sale, this Act shall not apply thereto, but such importer may secure an analysis of the fertilizer, as delivered to him, on application to the Minister and on payment of a fee of five dollars. The sample submitted must be taken in accordance with the requirements of section 10 of this Act.

Fertilizers made to order, and not intended for sale.

14. This Act shall not apply to fertilizers which are manufactured to the order of the purchaser and are not intended for sale, unless such fertilizers be actually sold by such purchaser, but such purchaser may secure an analysis of the fertilizer as delivered to him, under the conditions stated in section 10 of this Act, on payment of a fee of five dollars.

Analysis.

Penalties for non-compliance with this Act.

Proviso as to evidence of fraudulent intent.

15. Every manufacturer or agent, or purchaser in the case provided for in the next preceding section, who sells or offers or exposes for sale any fertilizer in respect of which the provisions of this Act have not been complied with; or who sells or offers or exposes for sale any fertilizer which does not contain the percentage of constituents mentioned in the manufacturer's certificate accompanying such fertilizer, shall be liable in each case to a penalty not exceeding fifty dollars for the first offence, and for each subsequent offence to a penalty not exceeding one hundred dollars and, in default of payment of such penalty, to imprisonment for thirty days. Provided that a deficiency of one half of one per cent of the ammonia or its equivalent in nitrogen or nitric acid, or of the potash claimed to be

or of phosphoric acid,

contained in the fertilizer, shall not be considered as evidence of fraudulent intent, if the total value of the fertilizer in fertilizing materials is substantially equivalent to the guaranteed statement made by the manufacturer or agent.

Forgery of certificate, registration number, etc.

16. Every person who forges, or utters or uses knowing it to be forged, any manufacturer's certificate, registration number, or certificate of analysis required under this Act, is guilty of an indictable offence, and is liable to imprisonment for a term not exceeding two years, with or without hard labour.

Penalty.

Unlawful use of certificate, registration number, etc.

17. Every person who wilfully applies to any fertilizer a certificate, or tag, or registration number given in relation to any other package or lot of fertilizer, every person who sells an unregistered fertilizer, and every person who lowers the fertilizing value of a registered fertilizer by mixing any other substance therewith, after the said fertilizer has been placed upon the market by the manufacturer or agent shall be liable, on summary conviction, to a penalty not exceeding five hundred dollars, and in default of payment to imprisonment for a term not exceeding twelve months.

Penalty.

False certificate.

Penalty.

18. Every person who gives a false certificate in writing with respect to a fertilizer sold by him as a principal or agent, shall be liable on summary conviction to a penalty not exceeding five hundred dollars, and in default of payment to imprisonment for a term not exceeding twelve months.

Application of fees and penalties.

19. All fees paid and penalties recovered under this Act shall form part of the Consolidated Revenue Fund of Canada.

R.S. c. 132 repealed.

20. *The Fertilizers Act*, chapter 132 of the Revised Statutes, 1906, is repealed.

Commencement of Act.

21. This Act shall come into force on the first day of January, one thousand nine hundred and ten.

SCHEDULE A.

STATEMENT TO BE ATTACHED TO PACKAGE.

1. *(Name of brand.)*
2. *(Registration number.)*
3. *(Name and address of manufacturer.)*
4. *(Analysis as guaranteed by the manufacturer.)*
5. Notice. Any purchaser may have an analysis made by the Department of Inland Revenue, on payment of one dollar. Samples must be taken in conformity with the regulations. For regulations address the Deputy Minister of Inland Revenue, Ottawa.

SCHEDULE B.

INSTRUCTIONS FOR TAKING SAMPLES OF FERTILIZERS TO BE SUBMITTED FOR ANALYSIS IN ACCORDANCE WITH SECTION 10.

Samples of fertilizer submitted by a purchaser for analysis must be inclosed in glass jars or bottles, and properly sealed. The samples must be taken in the presence of the vendor or of his representative.

Process of Sampling.

In lots of five tons, or less, portions shall be drawn from each separate package, and from at least ten packages; or if less than ten packages are present, all shall be sampled. In lots of over five tons, at least ten per cent of the packages shall be sampled. The portions so taken shall be thoroughly mixed in the presence of the parties interested, and from this mixture the sample sent to the Minister is to be taken: and must bear the signature of vendor and purchaser; and at the same time a duplicate sample is to be left with the party whose goods are inspected, subject to the call of the manufacturer or agent.

Date When Received.	Designation.	Number of Sample.	Name and Address of Manufacturer.	By Whom Sent.	From what Materials Produced.	—
1909.						
Jan. 25	Tankage	2269	Davies Packing Co., Ltd., Harriston, Ont.	Manufacturers. .	Blood, bone, etc.	Guaranteed contents. Contents as found...
" 25	Unground Tankage.	2270	Wm. Davies Co., Ltd., Toronto.	" ..	" ..	Guaranteed contents. Contents as found...
" 25	Concentrated Tankage.	2271	" ..	" ..	" ..	Guaranteed contents. Contents as found...
" 25	Ground Bone...	2272	" ..	" ..	Bone.	Guaranteed contents. Contents as found...
" 25	Dried Blood....	2273	" ..	" ..	Blood	Guaranteed contents. Contents as found...
" 25	Standard Tankage.	2274	The Laing Packing Co., Montreal.	" ..	Tankage	Guaranteed contents. Contents as found...
Feb. 3	Sulphate of Ammonia.	2275	W. A. Freeman Co., Ltd., Hamilton, Ont.	" ..	Sulphate of ammonia.	Guaranteed contents. Contents as found...
" 3	Nitrate of Soda.	2276	" .	" ..	Nitrate of soda..	Guaranteed contents. Contents as found...
" 3	Sulphate of Potash.	2277	" ..	" ..	Sulphate of potash.	Guaranteed contents. Contents as found...
" 3	Muriate of Potash.	2278	" ..	" ..	Muriate of potash.	Guaranteed contents. Contents as found...
" 3	Pure Bone Meal	2279	" ..	" ..	Phosphate, bone, blood, tankage, sulphuric acid, muriate of potash, sulphate of potash, ammonia, sulph., nitrate of soda.	Guaranteed contents. Contents as found...
" 3	Phosphate Powder.	2280	" ..	" ..	" ..	Guaranteed contents. Contents as found...
" 3	Phosphate Rock, ground.	2281	" ..	" ..	" ..	Guaranteed contents. Contents as found...
" 3	Tankage Manure	2282	" ..	" ..	" ..	Guaranteed contents. Contents as found...
" 3	Potato Manure.	2283	" ..	" .	" ..	Guaranteed contents. Contents as found .
" 3	Tobacco Manure	2284	" ..	" ..	" ..	Guaranteed contents. Contents as found...
" 3	Sure Growth Manure.	2285	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 3	Celery and Early Vegetable Manure.	2286	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 3	Bone and Potash	2287	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 3	Lawn Dressing .	2288	" ..	" ..	" .	Guaranteed contents Contents as found...

STANDARD FERTILIZERS.

Results of Analysis.											
Nitrogen, p. c.		Phosphoric Acid, per cent.									
Total, including that of Nitric Acid or Ammonia if Present.	Total, calculated as Ammonia.	Soluble in Water.	Citric Soluble.	Insoluble.	Total.	Total available.	Potash.	Moisture.	Relative value per ton of 2,000 lbs.	Number of Sample.	Remarks and Opinion of the Chief Analyst.
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c	p.c.	p.c.	$ c.		
9·19	11·16	.....	.....	.....	10·14	.....	.....	8·59	.....	2269	
9·04	10·98	Trace.	9·61	1·04	10·65	9·61	.....	8·15	41·62	....	Up to guarantee.
7·14	8·67	.....	...	. .	12·92	.	.....	16·06	.....	2270	
7·60	9·23	Trace.	10·65	2·50	13·15	10·65	.....	16·40	38·30	...	"
12·22	14·84	....	.....	... .	.....	. . .	.....	8·43	....	2271	
12·74	15·47	Trace.	1·05	0·25	1·30	1·05	.....	6·40	44·55	...	"
4·05	4·92	....	.....	.....	23·41	..	.	6·12	.....	2272	
4·13	5·02	.....	15·40	9·30	24·70	15·40	.....	4·90	33·77	....	"
10·99	13·34	.....	.....	...	....	.....	.....	19·23	.....	2273	
10·63	12·90	.....	4·22	0·90	5·12	4·22	....	18·95	41·05	..	"
6·51	7·90	.....	.....	...	12·58	.....	.....	6·20	.....	2274	
6·57	7·97	0·35	9·43	3·22	13·00	9·78	.....	5·65	34·10	....	"
20·59	25·00	.....	....	.....	.....	.....	.....	.....	70·00	2275	
20·34	25·30	.....	.....	.....	.....	.....	.....	6·65	70·86	...	"
15—16	18·21	.....	.....	.....	.....	.....	.....	.....	51 00	2276	"
	19·43										
15·85	19·24	.....	.....	.....	.....	.....	.....	0·90	53·89	...	"
.....	.....	. ....	.....	.....	.....	.....	§	.....	.....	2277	
.. . .	*	.....	.....	.. ...	.....	.....	51·44	0·55	51·44	....	"
. . ...	.....	.....	.....	.....	.. ..	.....	‖	.....	.....	2278	
.....	†	.....	.....	.. ...	.....	... ..	50·68	0·25	50·68	...	"
2 47—4·12	3—5	... ..	.....	.....	20—25	.....	.....	.....	.....	2279	
3·00	3·64	.....	18·80	6·50	25·30	18·80	.....	11·00	32·83	....	"
.....	.....	.....	.....	.....	13—16	.....	.....	.....	.....	2280	
0·39	0·48	.. .	7·43	7·90	15·33	7·43	.....	13·90	11·87	....	"
. . ....	.....	.....	.....	.....	‡	.....	.....	.....	.....	2281	64·18 per cent phosphate and
0·21	0·26	.....	6·90	22·50	29 40	6·90	.....	4·15	15·05	....	up to guarantee.
4 12—5·77	5—7	.....	.....	...	12—15	.....	.....	.....	.. ..	2282	Up to guarantee.
6·57	7·97	0·58	12·30	3·12	16·00	12·88	.....	4·85	37·50	....	"
2 47—3·29	3—4	..	.....	.....	8—10	.....	5—7	.....	.....	2283	
3·02	3·67	2·08	7·15	1·97	11·20	9·23	6·75	13 95	27·97	...	"
2 47—3·29	3—4	.....	.....	....	7—9	.....	4—5	... ..	.....	2284	
3·21	3 89	2·45	7·28	2·02	11·75	9·73	5·10	14·80	27·57	....	"
2·89—4 12	3½—5	.....	.....	.....	8—10	.....	3—4	....	.....	2285	
3 28	3·98	2·30	7·42	2·12	11·85	9 73	3·50	15 00	26 22	....	"
4 12—5·77	5—7	.....	....	. .	9—10	.....	5—7	....	.....	2286	
4·70	5·83	2·20	6·45	1·50	10·15	8 65	7·20	13·75	33 36	....	"
1 65 2·47	2 3	.....	.	...	9—10		6—8	....	.....	2287	
2·51	3·54	2·15	7·15	2·10	11·40	9·30	7·49	13·50	27 10	....	"
2·47—4·12	3—5	....	....	.....	9—10	.....	4—4½	.....	.....	2288	
3 36	4·09	6·02	0·28	4·80	11·10	6·30	4·25	11·50	24 65	....	"

* 95·12 per cent sulphate of potash. † 80·27 per cent muriate of potash. ‡ 65–72 per cent phosphate.
§ 90 per cent as sulphate. ‖ 80 per cent as muriate.

Date When Received.	Designation.	Number of Sample.	Name and Address of Manufacturer.	By Whom Sent.	From what Materials Produced.	—
1909.						
Feb. 3	Fertilizer.	2289	Davies, Ltd., Montreal.	Manufacturers..	Blood, bone and proteid matter	Guaranteed contents Contents as found...
" 10	Thomas Phosphate Powder (ground basic slag).	2290	Late H. & E. Albert, England.	Anglo-Canadian Chem. Co., St. John, N.B.	... .	Guaranteed contents Contents as found...
" 10	" .	2291	" ..	" ..	....	Guaranteed contents Contents as found...
" 10	Albert's Horticultural Manure.	2292	Late H. & E. Albert, Biebrich, Germany.	" ..	.....	Guaranteed contents Contents as found...
" 10	Potato Fertilizer No. 1.	2293	Late H. & E. Albert, England.	" ..	.....	Guaranteed contents Contents as found...
" 17	Nitrate of Soda..	2294	The Nitrate Agencies Co., Toronto	The Nitrate Agencies Co., Toronto.	.....	Guaranteed contents Contents as found...
" 17	Basic Slag.....	2295	Anglo Continental Guano Works (late Ohlendorff's)	H. H. McNutt, Lower Truro, N.S.	.....	Guaranteed contents Contents as found...
" 17	No. 1 Superphosphate.	2296	Capelton Chemical & Fertilizer Co., Buckingham, P.Q.	Capelton Chem. and Fert. Co., Buckingham, P.Q.	Acidulated phosphate rock, tankage, sulphate of ammonia, sulphate and muriate of potash.	Guaranteed contents Contents as found...
" 17	Royal Canadian.	2297	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 17	Reliance	2298	" .	" ..	" ..	Guaranteed contents Contents as found...
" 17	Victor.....	2299	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 17	Swift's Lowell Cereal Fertilizer.	2300	Swift's Lowell Fert. Co., Boston	Manufacturers..	Blood, meat, bone, bone black, bone phosphate, nitrate of soda or ammonia sulphate and sulphate or muriate of potash.	Guaranteed contents Contents as found...
" 17	Swift's Lowell Empress Brand	2301	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 17	Swift's Lowell Bone Fertilizer	2302	" ..	" ..	" ..	Guaranteed contents Contents as found..
" 17	Swift's Lowell Animal Brand.	2303	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 17	Swift's Lowell Potato Manure	2304	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 17	Swift's Lowell Potato Phosphate.	2305	" ..	" ..	" ..	Guaranteed contents Contents as found...

STANDARD FERTILIZERS.

Results of Analysis.											
Nitrogen, p.c.		Phosphoric Acid, per cent.									
Total, including that of Nitric Acid or Ammonia if Present	Total, calculated as Ammonia.	Soluble in Water.	Citric Soluble	Insoluble.	Total.	Total available.	Potash.	Moisture.	Relative value per ton of 2,000 lbs.	Number of Sample.	Remarks and Opinion of the Chief Analyst.
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p.c.	p.c.	$ c.		
6·20	7·53	.....	.....	.....	13·47	.....	.....	3·54	.....	2289	
6·26	7·60	0·20	9·35	2·50	12·05	9·55	.....	3·80	32 56	..	Slightly below guarantee in phosphoric acid.
.....	.....	.....	.....	.....	17—20	.....	.....	.....	.....	2290	
.....	.....	.....	13·40	4·10	17·50	13·40	.....	0·15	15 97	....	Up to guarantee.
.....	.....	.....	.....	.....	14—16	.....	.....	.....	.....	2291	
.....	.....	.....	11·15	4·30	15·45	11·15	.....	.....	13 55	....	"
12·20	14·81	11·11	.....	.....	.....	.....	15·00	.....	69 81	2292	
11·82	14·35	11·80	None.	None.	11·80	11·80	13·62	2 75	67 97	....	Essentially up to guarantee.
2·00	2·43	7·00	*	.....	.....	.....	7·00	.....	22 20	2293	
3·46	4·20	6·58	1·52	0·60	8·70	8·10	6·05	10·50	27 56	....	Up to guarantee.
Na. NO_3 =	95·12	.....	.....	.....	.....	.....	.....	3·40	.....	2294	
16·07	19·52	.....	.....	.....	.....	.....	.....	1·20	54 64	....	97·56 per cent nitrate of soda. Up to guarantee.
.....	.....	.....	16·50	.....	17·95	†	.....	.....	.....	2295	
.....	.....	.....	13·25	4·65	17·90	13·25	.....	0·15	15 97	....	Up to guarantee in total phosphoric acid.
.....	.....	.....	.....	.....	10—14	.....	.....	.....	.....	2296	
.....	.....	10 05	2·58	1·87	14·50	12·63	.....	8·75	15 46	....	Up to guarantee.
3·29—4·11	4—5	..	.....	.....	9—11	.....	5—6	.....	.....	2297	
4·12	5·00	9·65	0·17	1·30	11 12	9·82	6·27	10·15	32 44	....	"
1·65—2·47	2—3	.....	.....	.....	6—7	.....	2—3	.....	.....	2298	
2·77	3·66	5·00	3·45	1·17	9·62	8·45	2·89	5·40	22 45	....	"
1·65—2·47	2—3	.....	.....	.....	7—9	.....	3—4	.....	.....	2299	
2·69	3·26	6·25	1·12	1·35	9·12	7·77	3·70	6·20	21 98	...	"
0·82	1	.....	.....	1	8	7	1	.....	11 79	2300	
1·22	1·48	5·78	2·50	0·92	9·20	8·28	1·32	6·90	15 43	....	"
1·24	1·5	.....	.....	1	8	7	2	.....	14·22	2301	
1·19	1·45	6·60	1·95	0·75	9·30	8·55	2·31	6·11	16·65	..	Up to guarantee.
1·65	2	.....	.....	...	9	8	3	....	17 71	2302	
1·41	1·71	5·68	3·10	1·42	10·20	8·78	3·25	8·65	18 70	...	"
2·47	3	...	..	.....	10	8	4	.....	21 80	2303	
2·32	2·80	6·50	2·16	1·04	9·70	8·66	4·51	8 25	22 89	..	"
1·65	2	.....	.....	.....	8	7	4	....	17 61	2304	
1·61	1·95	4·75	2·60	0·80	8·15	7·35	4·24	6·[illegible]	18 51	....	"
2·47	3	.....	.....	.....	9	8	6	.....	23 50	2305	
2·25	2·74	6·45	2·33	1·12	9·90	8·78	6·15	8·40	24 44	....	"

* Soluble. † Fineness, 80·90

Date When Received.	Designation.	Number of Sample.	Name and Address of Manufacturer.	By Whom Sent.	From what Materials Produced.	—
1903.						
Feb. 17	Swift's Potato Grower.	2306	Swift's Lowell Fert. Co., Boston.	Manufacturers..	Blood, meat, boneblack, bone phosphate, nitrate of soda, or sulphate of ammonia and sulphate or muriate of potash.	Guaranteed contents Contents as found...
" 17	Swift's Superior Fertilizer.	2307	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 17	Swift's Lowell Ground Bone.	2308	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 17	Essex XXX Fish and Potash.	2309	Essex Fertilizer Boston.	" ..	Fish, meat, bone, boneback, bone phosphates, sodium nitrate or sulphate of ammonia, and sulphate or muriate of potash.	Guaranteed contents Contents as found...
" 17	Essex Market Garden and Potato Manure.	2310	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 17	Essex Complete Manure for Potatoes, Roots & Vegetables.	2311	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 17	Essex Ground Bone.	2312	" ..	" ..	.....	Guaranteed contents Contents as found...
" 17	New England Peerless Fertilizer.	2313	New England Fert. Co., Boston.	" ..	Blood, meat, bone boneblack, bone phosphate, sodium, nitrate or sulphate of ammonia and sulphate or muriate of potash.	Guaranteed contents Contents as found...
" 17	N. E. Potato Fertilizer.	2314	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 17	N. E. Corn and Grain fertilizer.	2315	N. E. Fertilizer Co.	" ..	" ..	Guaranteed contents Contents as found...
" 17	N. E. Potato Grower.	2316	" ..	" .	" ..	Guaranteed contents Contents as found...
" 17	N. E. Ground Bone.	2317	" ..	" ..	.....	Guaranteed contents Contents as found...
" 18	Bradley's X L Superphosphate of Lime.	2318	Am. Agr. Chem. Co.	Boston Sales Dept.	Bone black. animal bone, phosphatic guano, dried fish, meat, or blood, nitrate of soda or sulphate of ammonia, sulphate and or muriate of potash, sulphuric acid.	Guaranteed contents Contents as found...
" 18	Bradley's Potato Fertilizer.	2319	" ..	" ..	" ..	Guaranteed contents Contents as found ..
" 18	Bradley's Eclipse Phosphate for all Crops.	2320	" ..	" ..	" ..	Guaranteed contents Contents as found...

STANDARD FERTILIZERS.

Results of Analysis.											
Nitrogen, p.c.		Phosphoric Acid, per cent.									
Total, including that of Nitric Acid or Ammonia if Present.	Total, calculated as Ammonia.	Soluble in Water.	Citric Soluble.	Insoluble.	Total.	Total available.	Potash.	Moisture.	Relative value per ton of 2,000 lbs.	Number of Sample.	Remarks and Opinion of the Chief Analyst.
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p.c.	p. c.	p. c.	$ cts.		
3·29	4	..	....	....	7	6	10	....	28 09	2306	
3·50	4·25	4·20	2·05	0·75	7·30	6·25	10·36	7·60	29 78	....	Up to guarantee.
3·71	4·5	....	....	[illegible]	8	7	10	.....	30 61	2307	
3·63	4·40	5·60	2·16	0·82	8·58	7·76	9·53	9·05	31 26	....	"
2·47	3	.....	....	.....	25	.....	....	.....	.....	2308	
2·55	3 09	.....	20·00	7·45	27·45	20·00	.....	4·40	32 90	....	"
2 06	2·50	.....	8	1	9	.. .	3	.....	19 10	[illegible]	
1·78	2·16	5·75	3·20	1·00	9·95	8·95	2·99	8·25	19 76	....	"
2·06	2·50	8	...	1	9	.....	5	.....	21 90	2310	
1·92	2·33	6·55	1·85	0·80	9·10	8·30	4·87	7·50	21 53	....	"
3·29	4	6	.....	1	7	.....	10	.....	28 69	2311	
3·39	4·11	3·85	2·08	0·77	6·70	5·93	10·27	6·85	28 93	....	"
2·47	3	....	.....	....	23·00	10	... ..	... .	23 30	2312	
2 52	3·06	.. .	19·45	8·05	27·50	19·45	.... .	4·25	32 38	...	"
0·82	1	.....	....	1	8	7	1	....	11 79	2313	
0·99	[illegible] 20	4·35	2·80	0·95	3·10	7·15	1·11	5·00	13 06	....	"
1 [illegible]	2	....	.....	....	8	7	4	.....	17 61	2314	
1·57	1·80	4·90	3·18	0·77	8·85	8·08	4·36	6·00	19 31	....	"
1·24	1·5	.....	....	. ....	8	7	2	.....	14 22	2315	
0·99	1·21	4·30	3 00	0·55	7·85	7·30	1·96	4·65	13 95	...	"
2·47	3	.....	.....	.....	7	6	10	.....	25 30	2316	
2·44	3·03	5·35	2·70	1·15	9·20	[illegible]	11·51	6·90	29 [illegible]	....	"
2·47	·3	.....	.....	.....	23	.	...	.....	.....	2317	
2·45	2·98	.....	19·25	8·15	27·40	[illegible]	. .	4·25	31 25	...	"
2·06—2·88	2·5-3·5	5—6	3—4	2—3	10—13	8	1·5-2·5	.....	18 40	2318	
2·13	2·58	6·75	3·45	2·25	12·45	10·20	1·60	11·25	21 41	...	"
2·06—2·88	2·5-3·5	5—6	3—4	2—3	10—12	8—10	3—4	.....	19 90	2319	
1·91	2·34	7·10	3·55	2·35	13·00	10·65	2·77	13·90	22 39	....	"
1·03—2·50	1·25-3	6· -8	2—4	2—3	10—15	8—12	2—3	.....	15 50	2320	
1·55	1·88	7·25	2·85	2·65	12·75	10·10	2·72	11·15	20 62	....	"

Date When Received.	Designation.	Number of Sample.	Name and Address of Manufacturer.	By Whom Sent.	From what Materials Produced.	—
1909.						
Feb. 18	Bradley's Complete Manure with 10 per cent Potash.	2321	Amer. Agr. Chem. Co.	Boston Sales Dep	Bone, bone black, animal bone, phosphatic guano, dried fish, meat or blood, nitrate of soda or sulphate of ammonia, sulphate and or nitrate of potash, and sulphuric acid.	Guaranteed contents Contents as found...
" 18	Bradley's Eureka Fertilizer.	2322	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 18	Bradley's Farmers' New Method Fertilizer.	2323	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 18	Bradley's High Grade Fertili'r with 10 percent Potash.	2324	" ..	" .	" ..	Guaranteed contents Contents as found...
" 18	Read's Practical Special.	2325	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 18	Read's Potato Manure.	2326	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 18	Read's High Grade Farmers Friend Superphosphate.	2327	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 18	Read's Fish Bone Potash.	2328	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 18	Quinnipiac Climax Phosphate for all Crops.	2329	" ..	" ..	" ..	Guaranteed contents Contents as found ..
" 18	Soluble Pacific Guano.	2330	" ..	" ..	" ..	Guaranteed contents Contents as found.
" 18	Pacific Potato Special.	2331	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 18	Pacific Nobsque.	2332	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 18	Standard Fertilizer.	2333	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 18	Clark's Cove Great Planet Manure.	2334	..	" ..	" ..	Guaranteed contents Contents as found...
" 18	Cumb'rland's potato Fertilizer.	2335	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 18	Darling's Blood, Bone & Potash.	2336	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 18	Tucker's Imperial Bone Superphosphate for All Crops.	2337	" ..	" ..	" ..	Guaranteed contents Contents as found...

STANDARD FERTILIZERS.

Results of Analysis.											
Nitrogen, p.c.		Phosphoric Acid, per cent.									
Total, including that of Nitric Acid or Ammonia if Present.	Total, calculated as Ammonia.	Soluble in Water.	Citric Soluble	Insoluble.	Total.	Total available.	Potash.	Moisture.	Relative value per ton of 2,000 lbs.	Number of Sample.	Remarks and Opinion of the Chief Analyst.
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	$ c.		
3·5—4·13	4—5	4—6	2—4	1—2	7—10	6—8	10—12	.....	29 20	2321	
3·28	3·98	5·80	2·00	1·50	9·30	7·80	9·17	8·85	29 93	....	Up to guarantee.
1·03—2·5	1·25-3	6—8	2—4	2—3	10—15	8—12	2—3	.....	15 50	2322	
1·61	1·95	7·00	2·43	2·92	12·35	9·43	2·37	10·35	19 79	....	"
1·03—2·5	1·25-3	6—8	2—4	2—3	10—15	8—12	2—3	.....	15 50	2323	
1·57	1·80	7·15	2·73	2·62	12·50	9·88	2·40	10·60	20 11	....	"
2·4—3	3—4	5—6	1—2	1—2	7—10	6—8	10—12	.....	25 56	2324	
1·92	2·33	3·50	3·43	3·92	10·85	6·93	9·39	9·55	25 07	....	"
0·82—1·65	1—2	2—3	2—3	1—2	5—8	4—6	8—10	.....	15 69	2325	
1·09	1·19	6·00	2·63	2·12	10·75	8·63	7·39	13·00	21 82	....	"
2·4—3	3—4	5—6	1—2	1—2	7—10	6—8	10—12	.. .	25 56	2326	
1·92	2·33	3·40	3 23	3·67	10·30	6·63	9·97	9·55	25 23	....	"
3·5—4·13	4—5	4—6	2—4	1—2	7—10	6—8	10—12	.....	29 20	2327	
3·28	3·98	5·85	2·08	1·22	9·15	7·93	9·07	9·25	29 90	....	"
2—3	2·4-3·6	3—4	1—2	1—2	5—7	4—6	4—6	..	15 80	2328	
1·69	2 06	5·20	2·88	2·57	10·65	8·08	4·11	12·75	20 03	....	"
1·03—2·50	1·25—3	6—8	2—4	2—3	10—15	8—12	2—3	.....	15 50	2329	
1·67	2·02	7·05	2·90	2·90	12·85	9·95	2·32	10·20	20 52	....	"
2·06—2·88	2·5 3·5	5—6	3—4	2—3	10—13	8—10	1·5-2·5	.....	18 40	2330	
1·88	2·26	6·70	3·38	2·02	12·10	10·08	1·55	11·50	20 24	....	"
2·06—2·88	2·5-3·5	5—6	3—4	2—3	10—13	8—10	3—4	.....	19 90	2331	
1·96	2·36	7·40	3·08	2·22	12·70	10·48	2·78	13·75	22 34	....	"
1·03—2·15	1·25—3	6—8	3—4	2—3	10—15	8—12	2—3	...	15 50	2332	
1·68	2·04	7·30	2·98	3·07	13 35	10·28	2·29	10·35	20 96	....	"
2 06—2·88	2·5-3·5	5—6	3—4	2—3	10—13	8—10	1·5-2·5	....	18 40	2333	
1·85	2·23	6·70	3·38	2·17	12·25	10·08	1·54	11·70	20 17	....	"
3·3—4 12	4—5	6—8	2—3	1—2	9—13	8—11	7—8	.....	27 92	2334	
3·14	3·81	7·50	2·48	1·32	11·30	9·98	6·48	12·80	29 28	...	"
2·06—2·88	2·5-3·5	5—6	3—4	2—3	10—13	8—10	3—4	.....	19 90	2335	
1·86	2·26	7·10	3·25	2·55	12·90	10 35	2·72	14·30	21 90	...	"
4·10—5	5—6	5—7	2—3	1—2	8—12	7—10	7—8	.... .	29 44	2336	
4·20	5·40	5·30	3·55	1·30	10·15	8·85	6·54	11·15	31 47	....	"
1·03—2·50	1·25—3	6·8	2·4	2·3	10·15	8·12	2—3	.....	15 50	2337	
1·[illegible]	1·92	7·05	2·75	3·00	12·80	9·80	2·41	10·75	20 17	..	"

Date When Received.	Designation.	Number of Sample.	Name and Address of Manufacturer.	By Whom Sent.	From what Materials Produced.	—
1909.						
Feb. 20	Bradley's Superphosphate with Potash for Orchards.	2338	Amer. Agr. Chem. Co.	Boston Sales Dept.	Bone black and phosphatic guano, muriate and sulphate of potash.	Guaranteed contents Contents as found...
" 20	Bradley's Alkaline Bone with Potash.	2339	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 20	Bradley's Fine Ground Bone.	2340	" ..	" ..	.....	Guaranteed contents Contents as found...
" 20	Pacific Fine Ground Bone.	2341	" ..	" ..	.....	Guaranteed contents Contents as found...
" 20	Cumberland Fine Ground Bone.	2342	" ..	" ..	.....	Guaranteed contents Contents as found...
" 26	Tankage.....	2343	Montreal Stock Yards Co., Montreal.	Manufacturers..	Cattle blood, cattle and hogs' entrails, hogs' hair, hogs' toes, sheep and calves' entrails, sheep's heads, calves' heads, &c.	Guaranteed contents Contents as found...
" 2	Tankage E.....	2344	Harris Abattoir Co., Toronto.	" ..	Dried blood, bones, tankage, potash and mechanical filler.	Guaranteed contents Contents as found...
" 2	Tankage F.....	2345	" .	" ..	" ..	Guaranteed contents Contents as found...
.....	" G.....	2346	" ..	" ..	" ..	Guaranteed contents Contents as found...
.....	" H.....	2347	" ..	" ..	" ..	Guaranteed contents Contents as found. .
.....	" I.....	2348	" ..	" ..	" ..	Guaranteed contents Contents as found...
Mar. 2	" J.....	2349	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 2	" K.....	2350	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 2	Special Potash Mixture.	2351	Am. Agr. Chem. Co.	" ..	Animal matter, blood, bone and (tankage), mineral phosphates, potash, and all treated with sulphuric acid.	Guaranteed contents Contents as found...
" 2	High Grade Potash Compound	2352	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 2	Crocker's New York Special Phosphate.	2353	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 2	Crocker's Wheat and Corn Fertilizer.	2354	" ..	" ..	" ..	Guaranteed contents Contents as found...

STANDARD FERTILIZERS.

Results of Analysis.											
Nitrogen, p.c.		Phosphoric Acid, per cent.									
Total, including that of Nitric Acid or Ammonia if present.	Total, calculated as Ammonia.	Soluble in Water.	Citric Soluble.	Insoluble.	Total.	Total available.	Potash.	Moisture.	Relative value per ton of 2,000 lbs.	Number of Sample.	Remarks and Opinion of the Chief Analyst.
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	$ cts.		
....	...	.....	.....	2—3	15—18	13—15	1—2	.....	15 90	2338	
0·25	0·31	10·80	1·85	2·05	14·70	12·65	1·13	12·65	17 59	...	Up to guarantee.
....	.....	6—7	5—6	1—2	12—15	11—13	2—3	.....	15 00	2339	
0·21	0·25	10·00	2·98	2·82	15·80	12·98	1·80	12·15	18 63	....	"
2·5—3·25	3—4	.....	....	.....	21—23	.....	....	.....	.....	2340	
2·75	3·32	.....	16·15	8·05	24·20	16·15	...	6·65	29 53	....	"
2·5—3·25	3—4	.. ..	...	.....	21—23	....	.....	...	.. .	2341	
2·79	3·35	.....	17·65	6·65	24·30	17·65	.....	6·65	30 90	....	"
2·5—3·25	3—4	....	.....	.....	21—23	....	....	...	...	2342	
2·84	3·45	.....	16·95	7·25	24·20	16·95	....	6·75	30 48	....	"
9·38	11·39	....	.....	.....	3·06	.....	.... .	14·46	.....	2343	
9·38	11·39	.....	2·60	0·45	3·05	2·60	.....	6·75	34 89	....	"
4·2	5·1	.....	.....	.....	11·54	.....	8	.....	... .	2344	
3·68	4·47	.. .	11·75	1·20	12·95	11·75	8·65	7·40	34 45	....	"
4·3	5·2	.....	.....	.....	12·85	. . .	4	.....	.....	2345	
4·08	4·96	... ..	10·75	2·00	12·75	10·75	2·40	8·75	28·70	....	Below guarantee in potash.
5·4	6·6	.....	.....	.. .	11·00	.....	5	.....	.....	2346	
5·32	6·46	.. .	11·45	1·20	12·65	11·45	2·52	9·25	33 56	....	"
3·08	3·74	.. .	.....	.. .	10·79	.....	6·5	....	.....	2347	
3·04	3·69	.....	10·60	2·00	12·60	10·60	3·77	8·90	26 37	....	"
1·84	2·23	.....	...	.....	12·32	.....	5	.....	.....	2348	
1·88	2·28	.....	11·10	3·10	14 20	11·10	2·71	7·25	22 24	.. .	"
2·41	2·93	.....	.....	.....	14·38	.....	3	...	.....	2349	
2·32	2·82	.....	13·73	2·27	16·00	13·73	3·06	7·25	26 73	....	Up to guarantee.
2·31	2·83	.....	.... .	.....	11·86	.....	10	.....	... .	2350	
2·28	2·77	. ....	11·58	1 52	13·10	11·58	8·24	8·00	29 19	..	Below guarantee in potash.
0·82—1·65	1—2	7—8	2—3	1—2	10—13	9—11	7—8	.....	20 69	2351	
1·18	1·43	7·30	1·13	3·27	11·70	8·43	8·15	5·40	23 15	....	Up to guarantee.
1·65—2·47	2—3	6—7	2—3	1—2	9—12	8—10	10—11	.....	25 31	2352	
1·58	1·92	7·15	1·08	2·02	10·25	8·23	10·79	9·90	26 54	...	"
.....	. . .	8—9	2—3	1—2	11—14	10—12	8—9	....	20 10	2353	
. .....	.....	7·65	2·25	1·25	11·15	9·90	7·76	6·00	19 79	....	"
2·06—2·88	2·5-3·5	6—7	2—3	1—2	9—12	8—10	1·5-2·5	.....	18 20	2354	
2·16	2·62	6·35	2·98	1·77	11·10	9·33	1·78	12·30	20 55	....	"

Date When Received.	Designation.	Number of Sample.	Name and Address of Manufacturer.	By Whom Sent.	From what Materials Produced.	—
1909.						
Mar. 2	Crocker's Complete Manure.	2355	Am. Agr. Chem. Co.	Manufacturers..	Animal matter, blood, bone and tankage, mineral phosphates, potash and all treated with sulphuric acid.	Guaranteed contents Contents as found...
" 2	Crocker's Special Potato Manure	2356	" ..	" .	" ..	Guaranteed contents Contents as found...
" 2	Crocker's Best Potato Fertilizer.	2357	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 2	Bradley's New Method Fertilizer.	2358	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 2	Bradley's B. D. Sea Fowl Guano.	2359	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 2	Bradley's Complete Manure for Potatoes & Vegetables.	2360	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 2	Complete Manure.	2361	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 2	Michigan Carbon Fruit and Vine Fertilizer.	2362	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 2	Michigan Carbon Complete Fertilizer.	2363	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 2	Michigan Carbon Defiance Fertilizer.	2364	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 2	Homestead High Grade Garden and Vegetable Fertilizer.	2365	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 2	Standard Bone & Potash Fertilizer.	2366	" .	" ..	" ..	Guaranteed contents Contents as found...
" 2	Homestead Corn & Grain Producer.	2367	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 2	Virginia Tobacco Fertilizer.	2368	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 2	General Blood, Bone and Potash Fertilizer.	2369	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 2	Best Potato and Garden Blood and Tankage Fertilizer.	2370	" ..	" ..	" ..	Guaranteed contents Contents as found..
" 3	Campbells Fertilizer. No. 1.	2371	The Executors of Robt. Campbell Esq., Manchester, Eng.	Blackie Bros., Halifax, N.S.	Bones, kainit, superphosphate rape meal, ammoninm sulphite (sic).	Guaranteed contents Contents as found...
" 3	Fertilizer No. 2..	2372	" ..	" ..	Superphosphate, ammonium sulphite (sic). kainit.	Guaranteed contents Contents as found...

STANDARD FERTILIZERS.

Results of Analysis.											
Nitrogen, p.c.		Phosphoric Acid, per cent.									
Total, including that of Nitric Acid or Ammonia if Present.	Total, calculated as Ammonia.	Soluble in Water.	Citric Soluble	Insoluble.	Total.	Total available.	Potash.	Moisture.	Relative value per ton of 2,000 lbs.	Number of Sample.	Remarks and Opinion of the Chief Analyst.
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	$ c.		
0·82—1·65	1—2	6—7	2—3	1—2	9—12	8—10	4—5	.....	16 49	2355	
1·05	1·28	6·73	1·20	3·27	11·20	7·93	3·77	11·15	17 72	....	Up to guarantee.
3·29—4·11	4—5	6—7	2—3	1—2	9—12	8—10	7—8	.....	27 89	2356	
3·19	3·88	4·85	4·18	1·67	10·70	9·03	7·53	11 55	29 29	....	Up to guarantee.
1·65—2·47	2—3	6—7	2—3	1—2	9—12	8—10	10—11	.....	25 31	2357	
1 65	2·01	7·48	1·27	1·90	10·65	8·75	10·30	9·50	26 85	....	Up to guarantee.
0·82—1·65	1—2	6—7	2—5	1—2	9—12	8—10	2—3	.....	14 49	2358	
1·09	1·33	7·48	1·80	2·22	11·50	9·28	2·13	7·80	17 46	....	"
2·06—2·88	2·5-3·5	6—7	2—3	1—2	9—12	8—10	1·5-2·5	.....	18 20	2359	
2·13	2·58	6·45	3·01	1·87	11·33	9·46	1·63	11·65	20 48	....	"
3·29—4·11	4—5	6—7	2—3	1—2	9—12	8—10	7—8	.....	27 89	2360	
3·26	3·96	4·85	4·[illegible]	1·60	10·95	9·35	7·51	11·00	29 84	....	"
2·06—2·88	2·5-3·5	6—7	2—3	1—2	9—12	8—10	3—4	.....	19 70	2361	
1 82	2·21	5·25	3·88	1·65	10·78	9·13	3·59	8·40	20 84	...	"
1·65—2·47	2—3	6—7	2—3	1—2	9—12	8 - 10	10—11	.....	25 31	2362	
1·57	1·90	6·75	2·23	1·87	10·85	8·98	10·92	9·25	27 37	....	"
1·65—2·47	2—3	6—7	2—3	1—2	9—12	8—10	4—5	. ..	19 31	2363	
1·83	2·23	6·45	2·56	1·72	10·73	9·01	4·49	12·15	21 78	...	"
1·65—2·47	2—3	6—7	2—5	1—2	9—12	8—10	2—3	.....	17 31	2364	
1·86	2·26	8·15	1·25	2·35	11·75	9·40	2·16	12·40	19 34	....	"
1·65—2·47	2—3	6—7	2—3	1—2	9—12	8—10	6—7	.....	21·31	2365	
1·60	1·94	7·40	0·95	2·20	10·55	8·35	6·95	11·00	22·97	....	"
1·65—2·47	2—3	6—7	2—3	1—2	9—12	8—10	4—5	....	19·31	2366	
1·78	2·16	6·50	3·18	1·77	11·45	9·68	4·28	12·00	22·16	....	"
1·65—2·47	2—3	6—7	2—3	1—2	9—12	8—10	2—3	.....	17·31	2367	
1·95	2·36	7·80	1·46	2·42	11·68	9·26	2·25	12·25	20·57	....	"
1 65—2·47	2—3	6—7	2—3	1—2	9—12	8—10	4—5	.....	19·31	2368	
1·82	2·21	5·95	2·68	1·72	10·35	8·63	4·23	13·00	21·02	....	"
1·65—2·47	2—3	6- 7	2—3	1—2	9—12	8—10	10—11	.....	25·31	2369	
1·61	1·95	7·05	2·03	1·77	10·85	9·08	10 10	10·40	26·80	....	-
1·65—2·47	2—3	6—7	2—3	1—2	9—12	8—10	6—7	.....	21·31	2370	
1·61	1·95	7·30	1·98	2·15	11·43	9·28	7·39	9·50	24·45	....	
4·59	5·57	*	.....	.....	†	.....	5·75	‡	....	2371	
4·90	5·95	3·95	2·48	1·05	7·48	6·43	4·26	6·90	28·80	....	"
3·43	4·17	**	....	....	.	....	8·00	‡	.....	2372	
4·02	4·88	7·60	0·82	0·48	8·90	8·42	3·77	9·15	27 60	....	"

* 7·5 p.c. sol. phosphate. † 7·5 p.c. phosphate. ‡ Sulphate. ** 13 p.c. phosphate.

Date When Received.	Designation.	Number of Samples.	Name and Address of Manufacturer.	By Whom Sent.	From what Materials Produced.	—
1906.						
Mar. 3	Special Potato Manure.	2373	Alex Cross & Sons, Ltd., Glasgow, Scotland.	R. A. Beck, Amherst, N.S.	Bone phosphate, nitrates and muriate of potash.	Guaranteed contents Contents as found...
" 3	Scotia Basic Slag Phosphate.	2374	" ..	" ..	.....	Guaranteed contents Contents as found...
" 5	Bone Dust	2375	.....	Rufus R. Gage, Hamilton, Ont.	Bone	Guaranteed contents Contents as found...
" 5	Great Eastern High Grade Potato Manure	2376	Am. Agr. Chem. Co., G. Eastern Fertilizer Branch	Manufacturers..	Bone black, animal bone, phosphatic guanos, dried fish, meat or blood, sod, nitrate or sulphate of ammonia, sulphate and or muriate of potash, sulphuric acid.	Guaranteed contents Contents as found...
" 5	G. E. Potato Manure.	2377	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 5	G. E. General Fertilizer.	2378	" .	" ..	" ..	Guaranteed contents Contents as found...
" 5	G. E. Grass and Oats Fertilizer	2379	" ..	" ..	Bone black, and or phosphatic guanos, muriate and or sulphate of potash.	Guaranteed contents Contents as found...
" 5	Aroostook Complete Manure.	2380	" ..	" ..	Bone black, animal bone, phosphatic guanos, dried fish, meat or blood, soda, nitrate or sulphate of ammonia, sulphate and or muriate of potash, sulphuric acid.	Guaranteed contents Contents as found...
" 5	Peerless Potato Manure.	2381	" ..	" ..	" ..	Guaranteed contents Contents as found...

STANDARD FERTILIZERS.

Results of Analysis.											
Nitrogen, p.c.		Phosphoric Acid, per cent.									
Total, including that of Nitric Acid or Ammonia if Present.	Total, calculated as Ammonia.	Soluble in Water.	Citric Soluble.	Insoluble.	Total.	Total available.	Potash.	Moisture.	Relative value per ton of 2,000 lbs.	Number of Sample.	Remarks and Opinion of the Chief Analyst.
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.			
2·88—4·11	3·5—5	...	....	††	....	‡‡	6—9	...	...	2373	
3·64	4·42	7·85	3·60	1·55	13·00	11·45	5·78	1·90	32·20	....	Up to guarantee.
.....	.....	.....	.....	.....	13—20	...	.....	.....	.....	2374	
.. ..	.....	.....	15·18	6·62	21·80	15·18	.....	0·20	18·68	....	"
2·47	3	..	....	.....	23	....	....	..	.....	2375	
2·70	3·28	.....	17·75	6·25	24·00	17·75	.....	3·50	29·58	....	"
3·20—4·15	4—5	4—6	2—4	1—2	7—10	6—8	10—12	.....	28·18	2376	
3·39	4·11	6·45	1·98	1·20	9·63	8·43	8·90	8·15	30·70		"
2·06—2·88	2·5-3·5	5—6	3—4	2—3	10—13	8—10	3—4	....	19·90	2377	
2·04	2·48	7·70	4·06	1·37	13·13	11·76	3·09	11·40	24·14	...	"
0·82—1·65	1—2	5—7	3—4	2—3	10—14	8—11	4—5	.....	16·69	2378	
1·12	1·36	6·63	3·35	2·30	12·28	9·98	3·49	11·10	19·62	....	"
.. ....	.....	6—7	5—6	1—2	12—15	11—13	2—3	.....	15·00	2379	
.....	.....	10·33	3·43	2·07	15·83	13·76	1·76	12·15	18·55	....	"
2·4—3	3—4	3—6	1—2	1—2	5—10	6—8	10—12	.....	25·56	2380	
2·38	2·89	·67	3·39	3·54	10·60	7·06	9·21	8·50	26·50	..	"
3·3—4·12	4—5	6—8	2—3	1—2	9—13	8—11	7—8	.....	27·92	2381	
3·16	3·84	7·40	3·85	1·50	12·75	11·25	6·27	11·35	30·58	....	"

†† 4—6 p.c. insol. bone phosphate. ‡‡ 15—18 Sol. phosph-

Date When Received.	Designation.	Number of Sample.	me and Address of Manufacturer.	By Whom Sent.	From what Materials Produced.	—
1909.						
Mar. 9	Special Potato Phosphate.	2382	Nova Scotia Fertilizer Co., Halifax.	Manufacturers..	Bone, char. bone, dried blood, tankage, meat, fish bone, phosphates, sulphate of ammonia, sodium nitrate, high grade muriate of potash or sulphate of potash and sulphuric acid.	Guaranteed contents Contents as found...
" 9	Basic Slag.....	2383	" ..	" ..	.....	Guaranteed contents Contents as found...
" 9	Potato Phosphate.	2384	" ..	" ..	Bone, char. bone, dried blood, tankage, meat, fish bone, phosphates, am. sulph., sodium nitrate, high grade muriate of potash or sulphate of potash and sulphuric acid.	Guaranteed contents Contents as found...
" 9	Ceres Superphosphate.	2385	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 9	10 p.c. Potato Phosphate.	2386	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 9	Pure Ground Bone Meal.	2387	" ..	" ..	Bone..... ..	Guaranteed contents Contents as found...
"	Blood, Bone and Potash.	2388	" ..	" ..	Bone, dried blood, tankage, bone phosphates, sulphate of ammonia, nitrate of soda, high grade muriate of potash or sulphate of potash and sulpuric acid.	Guaranteed contents Contents as found...
" 9	Bilston Basic Phosphate.	2389	Alfred Hickman & Co., Bilston, Eng.	E. E. McNutt, Truro, N.S.	....	Guaranteed contents Contents as found...
" 22	Fertilizer A....	2390	Victoria Chem. Co. Ltd., Victoria, B.C.	Manufacturers..	Nitrate of soda, muriate of potash and superphosphates.	Guaranteed contents Contents as found...
" 22	" B....	2391	" ..	" ..	Nitrate of soda, muriate of potash and superphosphates of lime.	Guaranteed contents Contents as found...

STANDARD FERTILIZERS.

Results of Analysis.											
Nitrogen, p.c.		Phosphoric Acid, per cent.									
Total, including that of Nitric Acid or Ammonia if Present.	Total, calculated as Ammonia.	Soluble in Water.	Citric Soluble	Insoluble.	Total.	Total available.	Pot.	Moisture.	Relative value per ton of 2,000 lbs.	Number of Sample.	Remarks and Opinion of the Chief Analyst.
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	$ cts.		
2·06–2·47	2·5–3	.....	.....	2–3	8–11	6–8	7–9	...	21 20	2382	
2·10	2·55	6·65	2·35	0·70	9·70	9·00	10 16	10·15	28 07	....	Up to guarantee.
.....	.....	.....	.....	.....	14–16	.....	.....	.....	.....	2383	
.....	.....	.....	13·80	4·75	18·55	13·80	.....	0·25	16 60	....	"
1·65–2·47	2–3	.....	...	2–3	9–12	7–9	4–5	.....	17 91	2384	
2·38	2·89	7·90	1·64	0·84	10·38	9·54	7·35	9·25	26 98	....	"
1·65–2·47	2·3	.....	.....	2–3	9–12	7–9	2–3	.....	15 91	2385	
2·27	2·75	6·70	1·84	0·76	9·30	8·54	3·02	9·15	21 03	....	"
2·06–2·47	2·5–3	..	.....	2–3	8–11	6–8	10–12	.....	24 20	2386	
1·64	1·99	7·30	1·55	0 80	9·65	8·85	12·91	12·10	29 19	....	"
2·47–3·06	3–4	...	.....	....	‡‡	.....	.....	.....	.....	2387	
4·09	4·96	.....	17·82	7·28	25·10	17·82	.....	7·75	35 69	....	54·8 p.c. phosphate. Up to guarantee.
1·65–2·47	2–3	.....	.....	2·3	8–11	6–8	4–5	.....	16 81	2388	
2·07	2·48	6·25	1·81	0·64	8–70	8·06	6·23	9·45	22 95	....	Up to guarantee,
.....	.....	†	.....	.....	21·00	.....	*	*	.....	2389	
.....	.....	.....	15·60	5·50	21·10	15·60	.....	0·25	18 81	....	"
4·00	4·86	.....	.....	.....	10·00	.....	7·00	.....	.....	2390	
3·22	3·91	2·44	1·43	0·68	11·57	10·87	7·37	15·90	31 42	....	"
3·5	4·25	.....	...	.....	9·00	...	11·00	.....	.....	2391	
3·07	3 72	8·64	1·89	0·58	11·11	10·53	11·35	13·25	34 37	....	"

† 17·46 Soluble. ‡‡ 50—60 Bone Phosphate. * Fine Meal 89 per cent.

Date When Received.	Designation.	Number of Sample.	Name and Address of Manufacturer.	By Whom Sent.	From what Materials Produced.	—
1909.						
Mar. 22	Fertilizer C....	2392	Victoria Chem. Co., Victoria, B.C.	Manufacturers..	Muriate of potash and superphosphate of lime.	Guaranteed contents Contents as found...
" 22	" D....	2393	" ..	" ..	Nitrate of soda, muriate of potash and superphosphate of lime.	Guaranteed contents Contents as found...
" 22	Superphosphate of Lime.	2394	" ..	" ..	Bone char. and sulphuric acid.	Guaranteed contents Contents as found...
" 22	Nitrate of Soda.	2395	" ..	" ..	Imported from Chili.	Guaranteed contents Contents as found...
" 22	Sulphate of Potash.	2396	" ..	" ..	Imported from Germany.	Guaranteed contents Contents as found...
" 22	Muriate of Potash.	2397	" ..	" ..	Imported from Germany.	Guaranteed contents Contents as found...
" 23	Bone Meal.....	2398	Prov. Ch. Fertilizer Co., St. John, N.B.	" ..	.....	Guaranteed contents Contents as found...
" 23	10 p.c. Aroostock Potato.	2399	" ..	" ..	.....	Guaranteed contents Contents as found...
" 23	*4 p.c. Potato...	2400	" ..	" ..	.....	Guaranteed contents Contents as found...
" 23	†Special Potato.	2401	" ..	" ..	.....	Guaranteed contents Contents as found...
" 23	Potato Grower..	2402	" ..	" ..	.....	Guaranteed contents Contents as found...
" 23	Imperial Superphosphate.	2403	" ..	" ..	.....	Guaranteed contents Contents as found...
" 23	Victor Guano...	2404	" ..	" ..	.....	Guaranteed contents Contents as found...
" 23	Fertilizer H...	2405	W. Harris & Co., Toronto.	" ..	Flesh, blood and bone.	Guaranteed contents Contents as found...
April 2	Stockbridge Special Complete Manure for Potatoes & Vegetables.	2406	Bowker Fertilizer Co., Boston.	" ..	Bone, bone black, phosphatic guana, bone, phosphate, dried blood, meat or fish, ammonia, sulphate or sodium, nit. pot., sulph. or pot., mur. and sulphuric acid.	Guaranteed contents Contents as found...
" 2	Bowker's Blood, Bone and Potash.	2407	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 2	Bowker's Early Potato Manure	2408	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 2	Bowker's Market Garden Fertilizer.	2409	" ..	" ..	" ..	Guaranteed contents Contents as found...

* Is labelled with the word *Potato* only. † Is labelled 6 p.c., but am uncertain to which ingredient this refers.

STANDARD FERTILIZERS.

Results of Analysis.											
Nitrogen, p. c.		Phosphoric Acid, per cent.									
Total, including that of Nitric Acid or Ammonia if Present.	Total, calculated as Ammonia.	Soluble in Water.	Citric Soluble	Insoluble.	Total.	Total available.	Potash.	Moisture.	Relative value per ton of 2,000 lbs.	Number of Sample.	Remarks and Opinion of the Chief Analyst.
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	$ c.		
.....	....	.....	.....	....	12·5	.....	11·00	....	.....	2392	
0·39	0·48	11·83	2·65	0·98	15·46	14·48	11·78	12·40	30 51	....	Up to guarantee.
2·50	3·04	....	....	.....	10·00	..	11·00	.....	.....	2393	
2·53	3·07	10·01	2·00	0·68	12·69	12·01	11·30	12·60	34 31	....	"
.....	....	...	.....	.....	16·00	....	.....	....	....	2394	
0·52	0·63	15·85	0·28	0·62	16·75	16·13	.....	12·60	21 28	....	"
15·5	18·82		.....	.....	.....	.....	.....	....	52 70	2395	
16·02	19·45	...	.....	..	....	.....	.....	7·10	54 47	....	"
.....	...	.....	....	.....	.....	.....	50	.....	50 00	2396	
.....	....	.....	...	.....	....	.....	53·62	0·35	53 62	....	"
.....	.....	....	.....	....	.....	.....	50	.....	50 00	2397	
.....	.....	.....	....	...	.....	.....	49·22	2·80	49 22	....	"
3·21	3·90	.....	.....	.....	23·40	.....	.....	.....	.....	2398	
3·99	4·85	.....	18·77	4·28	23·05	18·77	.....	9·15	35 50	...	"
3·17	3·84	....	.....	.....	7·97	.....	9·28	.....	..	2399	
3·37	4·10	6·65	0·48	0·42	7·55	7·13	10·71	8·65	30 80	...	"
2·69	3·27	....	.	.....	8·78	...	6·20	.....	.....	2400	
1·80	2·31	3·75	3·21	0·99	7·95	6·96	5·23	6·00	19 68	...	Slightly below guarantee.
2·45	2·98	...	.....	...	7·80	.....	4·78	.....	.....	2401	
2·49	3·03	6·80	1·35	0·70	8·85	8·15	6·71	11·65	25 03	....	Up to guarantee.
3·22	3·91	..	.....	...	6·10	....	9·76	....	.....	2402	
2·63	3·20	2·55	2·93	0·62	6·10	5·48	13·15	7·40	28 51	....	"
							12·87				
2·97	3·61	.....	.	.	8·50	.....	2·53	.....	.....	2403	
2·80	3·40	6·75	0·64	7·85	7·85	7·39	2·37	15·15	18 70	....	"
2·03	2·47	....	.....	...	6·70	.....	3·90	.....	.....	2404	
1·83	2·23	3·55	3·42	0·96	7·93	6·97	3·59	8·25	18 12	...	"
6·63	8·05	.....	.....	.....	5½—6	.....	.....	.....	.....	2405	
7·78	9·45	Trace	6·26	1·52	7·78	6·26	.....	6·50	33 69	...	"
3·30	4	.....	.....	...	7	6	10	.....	28 12	2406	
3·50	4·25	5·90	1·3	1·19	9·05	7·86	8·90	9·25	30 39	....	"
4·12	5	.....	.....	.....	9	7	7	.....	29 31	2407	
4·02	4·88	5·50	3·60	1·30	10·40	9·10	6·60	11·95	31 72	....	"
3·30	4	.....	.....	.....	9	8	7	....	27 32	2408	
3·12	3·79	7·40	3·03	1·32	11·75	10·43	6·47	13·40	29 69	....	"
2·47	3	.....	.....	.....	7	6	10	.....	25 30	2409	
2·39	2·91	4·35	3·30	2·55	10·20	7·65	9·90	10·75	27 64	....	"

Date When Received.	Designation.	Number of Sample.	Name and Address of Manufacturer.	By Whom Sent.	From what Materials Produced.	—
1909.						
Apr. 2	Bowker's Vermont Phosphate.	2410	Bowker Fertilizer Co., Boston.	Manufacturers..	Bone, bone black, phosphatic guano, bone phosphate, dried blood meat or fish, ammonia sulph. or sodium, nitrate sulphate of Potash or muriate of potash and sulphuric acid.	Guaranteed contents Contents as found...
" 2	Bowker's Potato and Vegetable Phosphate.	2411	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 2	Bowker's Corn Phosphate.	2412	" ..	" ..	" ..	Guaranteed contents Contents as found ..
" 2	Bowkers Square Brand Bone & Potash.	2413	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 2	Bowkers Farm & Garden Phosphate.	2414	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 2	Bowkers 6 p.c. Potato Fertilizer.	2415	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 2	Bowkers Sure Crop Phosphate.	2416	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 2	Bowkers Potash Bone Phosphate.	2417	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 2	Bowkers Superphosphate with potash.	2418	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 2	Bowkers Plain Superphosphate for Orchards.	2419	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 2	Fresh Ground Bone.	2420	" ..	" ..	.....	Guaranteed contents Contents as found...
" 2	Fresh Nitrate of Soda.	2421	" ..	" ..	.....	Guaranteed contents Contents as found...
" 2	Bowkers Muriate of Potash.	2422	" ..	" ..	.....	Guaranteed contents Contents as found...
" 2	Bowkers Dissolved Bone Black	2423	" ..	" ..	.....	Guaranteed contents Contents as found...
" 6	Griffins Blood & Bond Fertilizer	2424	J. Y. Griffin & Co.. Ltd., Winnipeg.	" ..	Blood, bone and rendering scrap	Guaranteed contents Contents as found...
" 8	Muriate of Potash.	2425	The Nitrate Agencies Co., Toronto	" ..	.....	Guaranteed contents Contents as found...
" 8	Sulphate of Potash.	2426	" ..	" ..	.....	Guaranteed contents Contents as found...
" 8	Acid Phosphate.	2427	" ..	" ..	.....	Guaranteed contents Contents as found...

STANDARD FERTILIZERS.

Results of Analysis.											
Nitrogen, p.c.		Phosphoric Acid, per cent.									
Total, including that of Nitric Acid or Ammonia if Present.	Total, calculated as Ammonia.	Soluble in Water.	Citric Soluble.	Insoluble.	Total.	Total available.	Potash.	Moisture.	Relative value per ton of 2,000 lbs.	Number of Sample.	Remarks and Opinion of the Chief Analyst.
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	$ cts.		
2·47	3	.....	.....	.....	10	8	4	....	21 80	2410	
2·45	2·98	7·20	3·30	0·98	11·48	10·50	5·48	13·65	26 37	....	Up to guarantee.
1·65	2	.....	.....	.....	9	8	2	.....	16 71	2411	
1·86	2·26	6·93	2·70	2·92	12·55	9·63	2·04	10·90	20 53	....	"
1·65	2	.....	.....	..	9	8	2	.....	16 71	2412	
1·85	2·24	7·28	2·79	2·98	13·05	10·07	2·00	11·15	20 99	....	"
1·65	2	.....	.....	..	7	6	2	....	14 51	2413	
1·85	2·24	6·20	3·65	3·35	13·20	9·85	1·95	10·05	20 70	...	"
1·65	2	.....	.....	.....	9	8	2	...	16 71	2414	
1·96	2·38	6·95	3·18	3 02	13·15	10·13	2·08	11·05	19 41	....	"
0·82	1	.....	.....	..	7	6	6	...	15 69	2415	
1·12	1·36	4·93	3·82	2·55	11·30	8·75	5·11	14·24	19 80	...	"
0·82	1	.....	.....	.....	9	8	2	.....	13 89	2416	
1·18	1·43	6·75	3·28	2·47	12·50	10·03	2·12	13·05	18 58	...	"
0·82	1	.....	.....	.....	8	6	2	.....	11 99	2417	
1·19	1·45	6·68	3·32	2·35	12·35	10·00	2·07	13·00	18 49	....	"
.....	.....	.....	.....	.....	11	10	2	.....	13 30	2418	
.....	.....	8·55	4·40	2·30	15·25	12·95	1·75	15·00	17 54	....	"
.....	.....	.....	.....	.....	15	14	.....	.....	15 70	2419	
.....	.....	8·17	6·21	1·02	15·40	14·38	.....	14·90	16 94	....	"
2·47	3	.....	.....	.....	22·80	.....	.....	.....	.....	2420	
3·05	3·71	.....	19·35	6·30	25·65	19·35	.....	5·90	33 54	....	"
15	18·21	.....	.....	.....	.....	.....	.....	.....	51 00	2421	
15·46	18·76	.....	.....	.....	.....	.....	.....	1·85	52 56	....	"
.....	.....	.....	.....	.....	.....	.....	49·0	.....	49 00	2422	
.....	.....	.....	.....	.....	.....	.....	51·70	0·85	51 70	....	"
.....	.....	.....	.....	.....	16	15	.....	.....	16 80	2423	
.....	.....	14·30	1·28	1·77	17·35	15·58	.....	8·50	19 10	....	"
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2424	
6·75	8 19	Trace	9·23	2·22	11·45	9·23	.....	5·50	33 76	....	No guarantee furnished.
.....	.....	.....	.....	.....	.....	.....	51·10	.....	51 10	2425	
.....	.....	.....	.....	.....	.....	.....	50·41	.....	50 41	....	Up to guarantee.
.....	.....	.....	.....	.....	.....	.....	51·20	.....	51 20	2426	
.....	.....	.....	.....	.....	.....	.....	51·26	.....	51 26	....	"
.....	.....	.....	.....	0·92	17·70	16·78	.....	.....	18 73	2427	
.....	.....	15·75	1·05	2·20	19·00	16·80	.....	.....	20 71	....	"

Date When Received.	Designation.	Number of Sample.	Name and Address of Manufacturer.	By Whom Sent.	From what Materials Produced.	—
1909.						
April 21	Homestead Bone Black Fertilzer	2428	Am. Agr. Chem. Co., Michigan Carbon Works, Detroit.	Manufacturers .	Dissolved bone black, mineral phosphates, sulphate of ammonia, acidulated tankage, sulphate or muriate of potash.	Guaranteed contents Contents as found...
" 21	Homestead High Grade Garden and Vegetable Fertilizer.	2429	Amer. Agr. Chem Co., Michigan Carbon Works, Detroit.	" ..	Dissolved bone black, mineral phosphates, sulphate of ammonia, acidulated tankage, sulphate or muriate of potash.	Guaranteed contents Contents as found...
" 21	Special Beet Fertilizer.	2430	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 21	Sugar Beet Fertilizer.	2431	" ..	" ..	" .	Guaranteed contents Contents as found .
" 21	Gregory's Special High Grade Tobacco Guano.	2432	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 21	Dessicated Bone	2433	" ..	" ..	Pure animal bone.	Guaranteed contents Contents as found...
" 21	Nitrate of Soda.	2434	" ..	" ..	Imported from Chili.	Guaranteed contents Contents as found...
" 21	Muriate of Potash.	2435	" ..	" ..	Imported from Germany.	Guaranteed contents Contents as found. .
" 22	Calumet Brand Potato, Tobacco and Onion Grower.	2436	Hirsh, Stein & Co., Chicago.	" ..	Bone and animal matter and sulphate of potash.	Guaranteed contents Contents as found...
" 22	Calumet Brand Special Potato and Onion Grower.	2437	" ..	" ..	" ..	Guaranteed contents Contents as found...
" 22	Calumet Brand Bone Phosphates.	2438	" ..	" ..	Bone.....	Guaranteed contents Contents as found...
" 22	Nitrate of Soda.	2439	" ..	" ..	.....	Guaranteed contents Contents as found...
" 22	Muriate of Potash.	2440	" ..	" ..	....	Guaranteed contents Contents as found...
May 6	Standard. ..	2441	Standard Fertl. & Ch. Co., Smith's Falls.	" ..	Nitrate of soda, sulphate of ammonia, potash and magnesia salts, mineral superphosphate and fine bone meal.	Guaranteed contents Contents as found...
" 6	Special.....	2442	" ..	" ..	" ..	Guaranteed contents Contents as found...
June 4	Fertilizer	2443	London Fertilizer Works, London, Ont.	" ..	Dry tankage, ammonia, phosphoric acid and potash.	Guaranteed contents Contents as found...

STANDARD FERTILIZERS.

Results of Analysis.											
Nitrogen, p.c.		Phosphoric Acid, per cent.									
Total, including that of Nitric Acid or Ammonia if present.	Total, calculated as Ammonia.	Soluble in Water.	Citric Soluble	Insoluble.	Total.	Total available.	Potash.	Moisture.	Relative value per ton of 2,000 lbs.	Number of Sample.	Remarks and Opinion of the Chief Analyst.
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	$ cts.		
2·06	2·50	....	....	.....	10·00	8·00	1·50	.....	17 30	2428	
2·44	2·96	7·65	2·08	1·62	11·35	9·73	1·89	9·00	22·14	....	Up to guarantee.
1·65	2·00	.....	.....	.....	10·00	8·00	5·00	.....	19 41	2429	
1·85	2·24	7·40	1·43	0·92	9·75	8·83	4·47	12·50	21 49	...	"
1·65	2·00	.....	.....	.....	10·00	8·00	5·00	.....	19 41	2430	
1·82	2·21	7·70	1·38	0·97	10·05	9·08	4·77	13·50	22 00	....	"
1·23	1·50	.....	.....	.....	[illegible]	9·00	2·00	.....	16 08	2431	
1·18	1·43	6·50	1·73	1·52	9·75	8·23	1·95	13·10	16 12	....	"
2·47	3·00	....	.....	.....	10·00	8·00	4·00	.....	21 20	2432	
2·56	3·11	7·65	1·33	1·02	10·00	8·98	6·04	12·75	25 69	....	"
1·23	1·50	.....	.....	.....	25·00	.....	.....	.....	.....	2433	
2·04	2·48	....	20·25	10·05	30·30	20·25	.....	2·25	32 18	...	"
14·81	18·00	.....	.....	.....	.....	.....	.....	.....	50 35	2434	
15·57	18·90	.....	.....	.....	.....	.....	.....	2·25	52 94	...	"
.....	.....	.....	.....	.....	.....	.....	50·00	.....	50 00	2435	
.....	.....	.....	.....	.....	.....	.....	49·62	0·40	49 62	...	"
1·60	2·00	.....	.....	1·00	9·00	8·00	5·00	.....	19 54	2436	
2·24	2·72	3·85	6·63	0·72	11·20	10·48	6·43	3·75	25 17	....	"
1·60	2·00	.....	.....	1·00	6·00	5·00	10·00	.....	21 24	2437	
2·35	2·86	2·80	7·23	0·97	11·00	10·03	10·18	3·90	29 77	....	"
.....	.....	.....	.....	1·00	11·00	10·00	.....	.....	11 30	2438	
0·49	0·60	5·00	6·43	0·72	12·15	11·43	....	1·35	14 95	....	"
15·00	18·21	.....	.....	.....	.....	.....	.....	.....	51 00	2439	
15·45	19·24	.....	.....	.....	.....	.....	.....	1·75	52 53	...	"
.....	.....	.....	.....	.....	.....	.....	50·00	.....	50 00	2440	
.....	.....	.....	.....	.....	.....	.....	54·76	0·50	54 76	...	"
2·06	2·5	.....	.....	.....	.....	9	2	.....	24 84	2441	
2·73	3·31	9·15	1·04	8·36	18·55	10·19	3·07	7·50	26 98	....	"
2·88	3·5	.....	.....	.....	.....	8	7	.....	25 59	2442	
4·42	5·37	10·20	1·82	0·68	12·70	12·02	7·04	4·90	36 51	....	"
4·96	5·95	....	.....	.....	16·70	.....	3·03	1·09	...	....	
4·30	5·22	trace	11·90	4·68	16·58	11·90	3·42	7·60	32 53	2443	"

Date when Received.	Designation.	Number of Sample.	Name and Address of Manufacturer.	By Whom Sent.	From what Materials Produced.	—
1909.						
May 25	Soluble Bone....	2444	The Buffalo Fertilizer Co., Buffalo, N.Y.	Manufacturers..	.....	Guaranteed contents Contents as found...
" 25	Extra Bone and Potash.	2445	" .	" ..	.....	Guaranteed contents Contents as found...
" 25	Ideal Wheat and Corn.	2446	" ..	" ..	.....	Guaranteed contents Contents as found...
" 25	General Crop...	2447	" ..	" ..	.....	Guaranteed contents Contents as found...
" 25	Bone and Potash.	2448	" ..	" ..	.....	Guaranteed contents Contents as found...
" 25	Farmer's Choice.	2449	" ..	" ..	.....	Guaranteed contents Contents as found...
" 25	4-6-10 Fertilizer.	2450	" ..	" ..	.....	Guaranteed contents Contents as found...

STANDARD FERTILIZERS.

Results of Analysis.												
Nitrogen, p.c.		Phosphoric Acid, per cent.										
Total, including that of Nitric Acid or Ammonia if Present.	Total, calculated as Ammonia.	Soluble in Water.	Citric-Soluble.	Insoluble.	Total.	Total available.	Potash.	Moisture.	Relative Value per Ton of 2,000 lbs.	Number of Sample.	Remarks and Opinion of the Chief Analyst.
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	$ c.		
....	.....	...	.....	....	..	14·00	.....	.....	15 40	2444	
.....	.....	7·70	6·75	2·55	17·00	14·[illegible]5	..	.....	17 43	....	Up to guarantee.
....	....	.....	.....	.....	.....	10·00	8·00	.....	19 00	2445	
.....	....	7·90	2·25	2·05	12·20	10·15	7·75	.....	20 32	...	"
1·65	2·00	.....	.....	.....	.....	9·00	5·00	....	20 51	2446	
2·08	2·53	7·90	1·10	1·20	10·20	9·00	6·17	.....	24 29	...	"
.....	.....	.....	.....	.....	.....	9·00	3·00	.....	12 90	2447	
.. ..	.....	6·80	3·70	1·85	12·35	10·50	3·05	.....	15 83	....	"
.. ..	..	.....	.....	.....	.....	12·00	5·00	....	18 20	2448	
.....	....	8·90	2·90	2·40	14·20	11·80	5·51	.....	20 10	....	"
....	1·00	.....	.....	.....	.....	8·00	5·00	.....	16 62	2449	
0·85	1·03	7·95	1·85	2·30	12·10	9·80	5·52	....	20 67	....	"
.. . .	4·00	...	.....	.....	.....	6·00	10·00	....	27 82	2450	
2·86	3·50	7·95	0·30	1·85	10·10	8·25	11·20	.. .	31 35	....	"