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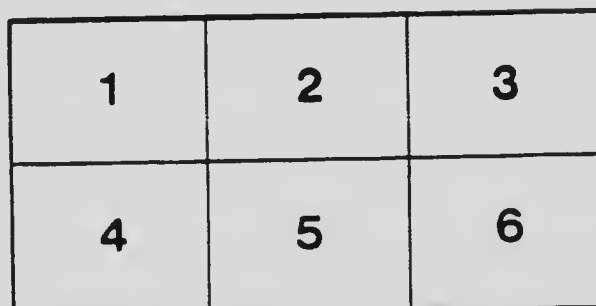
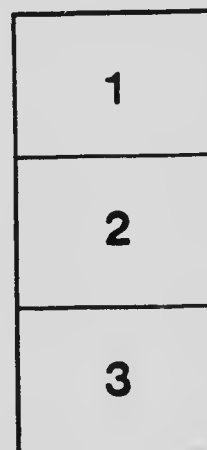
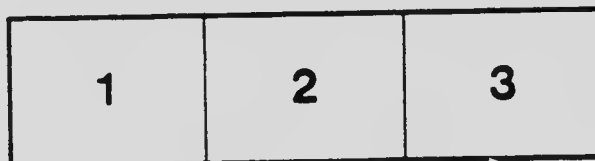
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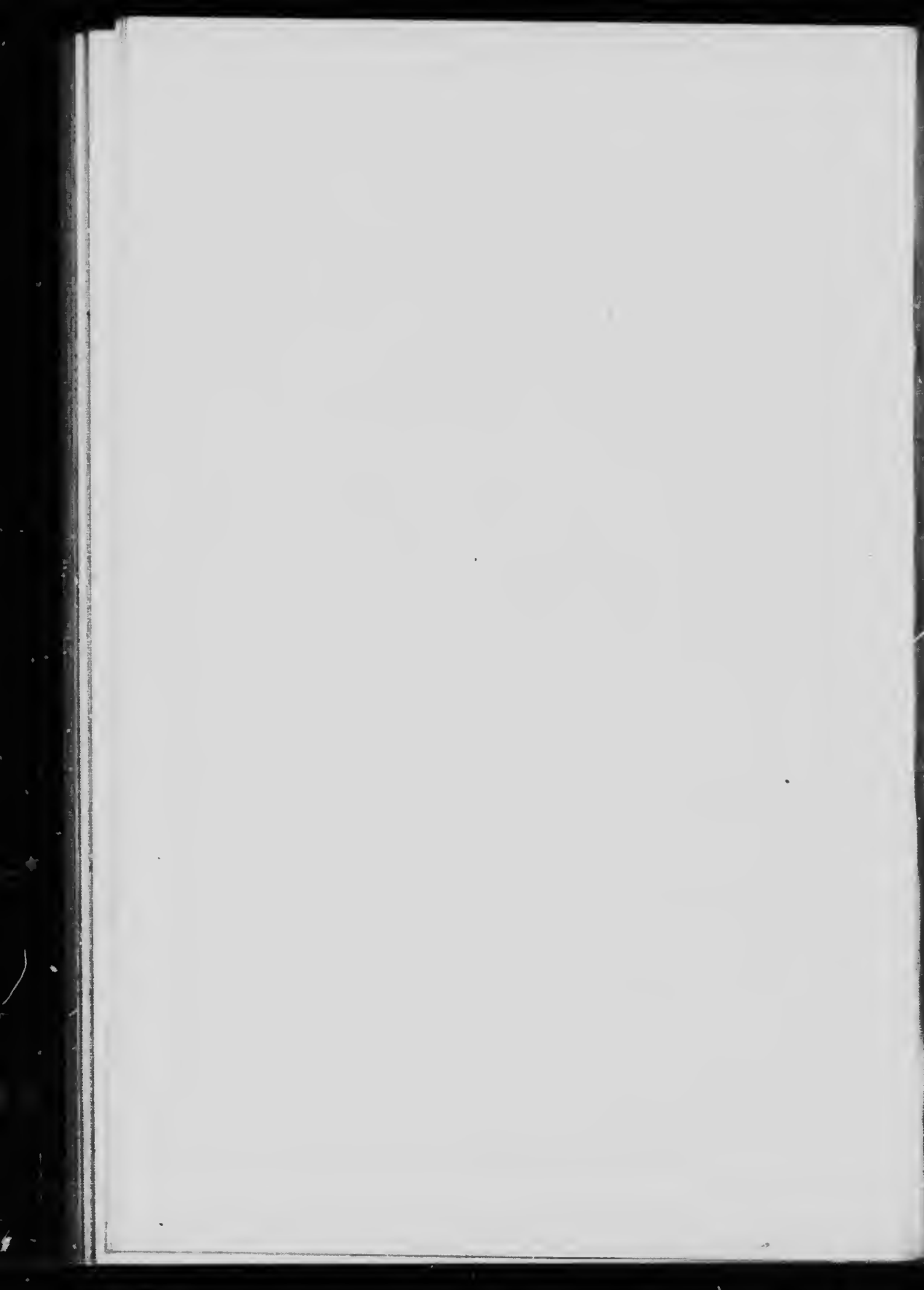
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LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA

BULLETIN No. 254

BRAN, SHORTS AND CHOP FEED

LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA.

BULLETIN No. 254

BRAN, SHORTS AND CHOP FEED

OTTAWA, May 20, 1913.

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

SIR.—I have the honour to hand you a report upon 396 samples of feeds sold as bran, shorts or middlings and chops.

These samples were purchased throughout Canada in September and October last; and may be taken fairly to represent the character of cattle feed offered under the above names.

As explained in Bulletin No. 231 (February, 1912), which contains a report of our last inspection of Unregistered Feeds, an Order in Council of May 3, 1911, requires these feeds to possess minimum values as below:—

	Proteids.	Fat.	Fibre.
	(minimum)	(minimum)	(maximum)
Bran	14	3	10
Shorts or Middlings	15	4	8
Chop	10	2	10

Although feeds of these classes are not required to be registered before being offered for sale, it is not forbidden that any manufacturer who believes his product to be notably better than the minimum legal requirements should register this and sell with a guarantee of quality. In such case the manufacturer must give some distinguishing name to the article, and not sell it simply as "Bran". He may name it "Smith's Bran", or "Jones' Bran", or he may devise a specific name for it. For purposes of the Act, the article then becomes a "Stock Feed" as defined by Sect. 2 (b) of the Act; and is amenable to the conditions of Sect. 2 (c) and Sect. 15. Thirty-eight samples of bran, shorts and chops among the 396 now reported are sold with a guarantee of value. It is, of course, proper that the manufacturer should be required to live up to any guaranteed value which he claims; and it may thus happen that a bran (for example) which would have passed as legal bran, if sold without any special claim of quality may be found deficient and technically adulterated because it fails to show the content of proteid matter or fat which the manufacturer claimed, and upon which, rather than upon the legal requirements for bran, it is judged.

The following table gives a concise statement of the results of analysis of bran, shorts and chop feeds.

	Sold with a guarantee.		Sold without a guarantee.		Total.		
	Meets guarantee.	Below guarantee.	Genuine.	Below requirements.	Genuine.	Adul.	Sum.
Bran.....	8	4	121	2	129	6	135
Shorts or Middlings	1	3	127	8	128	11	139
Chop.....	16	6	91	9	107	15	122
Totals.....	25	13	339	19	364	32	396

In some cases the deficiency is very small and may be regarded as accidental. Sometimes the deficiency in one component is fully compensated by overplus in another, so that the purchaser of the feed is not defrauded except technically. As a rule the deficiency is most notable in cases where a guarantee of value is given, the manufacturer evidently basing his guarantee upon a higher analytical result than he has found it practicable to live up to. The following tables show in detail the deficiencies referred to. It is to be noted that our standards, as interpreted by section 15 of the Feeding Stuffs Act, 1909, provide for a deficiency of one per cent in proteids or fat or for an excess of two per cent fibre, if the total value of the feed is not impaired thereby.

FEEDS SOLD WITH A GUARANTEE AND FAILING TO MEET THIS.

BRAN.

Number	Guarantee.			Below guarantee.		
	Proteids.	Fat.	Fibre.	Proteids.	Fat.	Fibre.
59481	16.82	5.50	10.86	1.86	0.82	
50488	16.82	5.50	10.86	1.73	0.88	
51616	16.82	5.50	10.86	2.48	1.30	
51471	16.82	5.50	10.86	1.90	1.38	

NOTE 1.—The Western Canada Flour Mills Company, Goderich, writes as follows under date, April 2, 1913: We at one time did put out our bran under registration number and analysis, but later found that such was not necessary under the Act, and we therefore discontinued the practice.

All of the above samples meet legal requirements for bran; but they were sold under Registration No. 66, with the guarantee as given above.

SHORTS.

No.	Reg. No.	Guarantee.			Below Guarantee.		
		Proteids.	Fat.	Fibre.	Proteids.	Fat.	Fibre.
*39158	68	16.73	4.39	5.20	4.79	0.31	7.12
51483	63	18.38	6.02	7.99	1.94	1.56	
51617	63	18.38	6.02	7.99	1.76	1.36	

* Inspector Rouleau is uncertain regarding register number, probably 68 is intended. This judgment must be regarded as doubtful.

43511—1½

No. 51483 meets the standard for shorts, but fails to meet the guarantee. The same is true of No. 51617. No. 39158 falls much below the standard for shorts.

Chor.

No.	Reg. No.	Guarantee.			Below guarantee.		
		Proteids.	Fat.	Fibre.	Proteids.	Fat.	Fibre.
50508	112	10.48	3.25	13.25	2.02	0.15	
50509	73	12.00	3.40	8.00	1.80		
39176	131	10.00	2.50	18.00	5.77	1.48	7.00
50954	50	11.00	2.50	16.00	2.78	0.88	
49260	138	18.00	5.00	10.00	2.56	0.60	1.1
49271		45.00	8.00		2.00		

FEEDS SOLD WITHOUT A GUARANTEE.

BRAN.

No.	Requirements.			Below Requirements.		
	Proteids.	Fat.	Fibre.	Proteid.	Fat.	Fibre.
50489	14	3	10	1.36		
48168	14	3	10	1.53		

SHORTS.

46890	15	4	8	1.22	0.18	...
46325	15	4	8	...	1.48	0.8
37253	15	4	8	2.88	2.40	3.1
37257	15	4	8	2.44	0.81	0.1
49676	15	4	8	1.22	1.96	...
38459	15	4	8	1.66	...	...
38164	15	4	8	1.19	...	...
49275	15	4	8	1.39	...	...

Chor.

46872	10	2	10	1.11	...	...
37275	10	2	10	1.54	0.56	1.2
37280	10	2	10	2.45	0.38	5.1
39170	10	2	10	0.38	...	5.0
50952	10	2	10	...	...	2.6
49509	10	2	10	1.70	...	...
48132	10	2	10	1.54	...	...
49679	10	2	10	0.59	...	3.7
49681	10	2	10	0.45	...	8.2

SUMMARY OF THE FOREGOING, AS JUDGED UNDER THE TERMS OF THE ACT.
GUARANTEED FEEDS.

No.	
50481	Are adulterated if held to meet the guarantee. Are genuine if sold as legal bran.
50488	
51616	
51471	
39158	Adulterated.
5514	Meet the standard for legal Shorts, but are adulterated if judged by manufacturer's claim.
5516	
50508	Adulterated.
50509	Low proteids compensated by excess of fat.
39176	Adulterated
50954	

- N₁. Meets legal requirements for chop, but is adulterated under terms of guarantee.
 49260 Is a special feed. The deficiency of 2 p.c. protein would be large for an ordinary chop, being 20 p.c. of the total protein required by law. The percentage of deficiency of protein in this feed is only about 4%. It contains an excess of 0.44 fat above guarantee. It is doubtful if such a result would justify condemnation as adulterated.

FEEDS SOLD WITHOUT GUARANTEE.

- 50489 Low proteins compensated by excess fat.
 48168 " " "
 46896 Adulterated.
 46325 Low fat compensated by excess proteins.
 37253 Adulterated.
 37257 " "
 49676 Low fibre cannot be held to compensate for deficiency in both proteins and fat. Adulterated.
 38459 Adulterated.
 38461 " by a very narrow margin. Technical adulteration
 49275 Adulterated.
 46872 Excess of fat compensates for low proteins.
 37275 Adulterated.
 37280 " "
 39170 " by excess of fibre.
 50952 The excess of fibre is fully compensated by excess of proteins and fat.
 49509 Excess of fat practically compensates deficiency of proteins.
 48132 Adulterated.
 49679 " by excess of fibre.
 49681 Compensating value in excess of fat.

SUMMARY OF SAMPLES IN WHOSE CASES COMPENSATING VALUES DO NOT APPEAR; CONSEQUENTLY ARE ADULTERATED.

- 50481 If required to meet the guarantee.
 50488 " " "
 51615 " " "
 51471 " " "
 39158 Adulterated.
 51483 If required to meet the guarantee.
 51617 " " "
 50608 Adulterated.
 39176 " "
 50954 " "
 49260 If required to meet the guarantee.
 46896 Adulterated.
 37253 " "
 37257 " "
 49676 " "
 38459 " "
 38464 Doubtful.
 49275 Adulterated.
 37275 " "
 37280 " "
 39170 " "
 48132 " "
 49679 " "

So far as nutriment value is concerned, it therefore appears that only 23 samples out of 396, or less than 6 per cent of the collection, can be regarded as adulterated under the Act. Of this number, one sample is doubtfully amenable to the charge of adulteration; and 7 others, while failing to meet the manufacturer's claims, are found to meet the legal minimum values for the class of feed to which they belong. This leaves only fifteen (15) samples in whose regard no extenuating circumstances can be pleaded.

Even among these it will be found that the deficiencies are for the most part slight, and the report shows that bran, shorts and chop feeds are so far as their feeding value goes generally of good quality. Modern milling processes are so complex, and the natural desire of the manufacturer to work economically and to secure a maximum value from his grain is so great that with the fullest intention to bring his low priced products up to the legally required minima, it is inevitable that he should at times utter a sample below standard, unless he takes the precaution of checking his output by analysis.

FEED FLOUR.

In Bulletin No. 231 (page 5) I called attention to a variety of feeding stuff sold as shorts or middlings, but having characters which would seem to indicate that it is rather a low-grade flour than shorts or middlings, as these are generally known. The following quotation from Bulletin No. 231 explains this matter:—

"A considerable number of samples, which appear to answer a description of low grade flour, were found in the above collection; but these were supplied indiscriminately as shorts or middlings, as indicated by the maxima for fibre and for fat, though most of them were sold as middlings.

"In order to discover whether the present collection indicates any accepted distinction between the terms, I have collated the results for 72 out of 73 samples sold as shorts, and for 54 out of 68 samples sold as middlings, being in each case the number of samples respectively, which meet the requirements of legal definition.

"Seventy-two (72) samples of shorts give results as follows:—

SHORTS.			
	Fat.	Proteids.	Fibre.
Means.	4.65	16.20	6.3
Maxima.	6.48	18.46	8.0
Minima.	3.44	14.00	3.9

"Fifty-four (54) samples of middlings give the following results:—

	Fat.	Proteids.	Fibre.
Means.	4.47	15.95	5.2
Maxima.	6.26	18.02	8.1
Minima.	3.02	14.13	1.4

"The results appear to justify the conclusion that the article sold as shorts is not substantially different from the article sold as middlings; and this conclusion is corroborated by the expressed opinion of many millers, in answer to questions by our inspectors. At the same time it is to be noted that samples characterized by very low fibre, low fat and a high starch content (indicating flour), are usually sold as middlings, rather than as shorts.

"Examples of this are found in the following:—

Number.	Fat.	Proteids.	Fibre.	—
46084.	2.16	10.37	1.5	low in proteids and fibre.
36956.	1.55	12.73	0.7	" " fat and fibre.
43271.	2.08	12.51	0.8	" " "
43281.	2.32	13.26	1.3	" " "
47413.	2.66	15.11	1.9	" fat and fibre.
47414.	3.16	12.56	1.8	" proteids and fibre.
38185.	2.66	11.42	0.9	" fat and fibre.
38189.	2.02	12.03	0.5	" " "
47611.	2.37	14.61	1.1	" fat and fibre.
47618.	1.98	13.04	0.8	" "
47621.	2.28	12.86	1.0	" "

"Feeds of this kind should be sold as feed-flour; or by some name which distinguished them from legal shorts or middlings. While they possess considerable value for feeding purposes, they must be regarded as adulterated under the Act when offered as shorts or middlings. Their low fibre content is an advantage from the point of view of nutritive value, since this is replaced by starch in amount equivalent to the difference between the legal maximum for fibre (8 per cent) and the actual fibre present."

"I am convinced that in none of the above listed samples is there any evidence of intended fraud. The irregularity is apparently due to ignorance of legal requirements for shorts (middlings), and a mistaken idea that a low grade flour is even better value, than middlings as usually understood. I feel justified in recommending that for this first inspection under the Feeding Stuffs Act, leniency be exercised towards the vendors, and their attention called, to the requirements of the Act."

It is a matter for consideration whether G. 968 should not be amended by addition of this description of feed under the name "FEED FLOUR"; in such case it would be necessary to amend the Act in Section 2 (b), by exclusion of the term "FEED FLOUR" as a commercial feeding stuff requiring registration.

The standard for bran, shorts and chop feeds, as defined in G. 932, were amended on June 7, 1911, by the following clause: 'And must be free from vital seeds of any of the noxious weeds defined by the Governor in Council under the Seed Control Act.' (See G. 968).

Examination of all the samples herein reported as to their content in vital weed seeds has been made by the courtesy of the Department of Agriculture, through the office of the Seed Commissioner.

Samples were submitted to the Seed Commissioner on the twentieth of March, but this being the busiest season for that department of work, it was found impossible to report them until the 15th instant; which accounts for the considerable delay in issuing this Bulletin.

On that date, I received a very valuable and exhaustive report from the Seed Commissioner accompanied by the subjoined letter of explanation:—

DEPARTMENT OF AGRICULTURE,
OFFICE OF THE SEED COMMISSIONER,
OTTAWA, May 15, 1913.

MR. A. MCGILL,
Chief Analyst,
Inland Revenue Department, Ottawa.

Dear Sir,— Herewith I am sending you six folios containing summary results of the analysis of the samples of brans, shorts, middlings and chop feeds submitted with your letter of March 20.

For your convenience, we have arranged these in consecutive order according to your laboratory test numbers. If and when you have occasion to refer to the analysis of any sample, I shall be obliged if you will kindly quote our laboratory test number.

We have not made germination test of any of the weed seeds enumerated to determine whether they are vital. We have, however, enumerated only those weed seeds which were found to be fully matured and in perfect condition; these we have assumed to be vital.

Nature has provided most kinds of noxious weed seeds with a hard or mucilagenous seed coat by which the germ may be protected, even though the seed may be exposed to the best possible conditions for germination; such weed seeds do not lend themselves readily to artificial methods for determining their percentage vitality.

From research work that has been done in our seed laboratory and elsewhere, however, we have good reason to believe that there are exceedingly few fully matured and uninjured seeds of plants that can properly be characterized as noxious weeds that are not capable of germinating. The fact that they cannot be forced to germinate until nature has prepared them for such is the principal factor that brings them within the category of noxious weeds and makes them so troublesome to farmers.

Yours very truly,
GEO. H. CLARK,
Seed Commissioner.

The result of this examination is presented in the following summary:—

	Samples.
Containing more than 400 vital weed seeds per lb.....	6
" " " 300 " " " 	3
" " " 200 " " " 	4
" " " 100 " " " 	11
" " " 50 " " " 	14
" " " 25 " " " 	27
" less " 25 " " " 	71
Free from vital weed seeds.	260
Total	396

The Seed Control Act (1-2 George 5, Chap. 23) of 1911, as interpreted under Order in Council under section 2, is as follows:—

The maximum proportion of noxious weeds that may be tolerated in any other seeds without affecting their character as being free from the seeds of the said weeds within the meaning of section 6 of this Act, shall be as follows:—

- (a) For seed of oats, barley, wheat or other seeds similar in size, one weed seed in one pound avoirdupois.
- (b) For seed of flax, millet or other seeds similar in size, one weed seed in one ounce avoirdupois.
- (c) For seed of white clover and grasses, five weed seeds in one ounce avoirdupois.

It is to be kept in mind that these regulations apply to seeds intended to be applied directly to the land. In the case of cattle feeds, the vital weed seeds are presumably applied to the soil only after they have passed through the alimentary tract of the animals to which they are fed, and it is reasonable to suppose that their vitality will be greatly affected in the processes of digestion.

The only experimental data available to me directed to the determination of the vitality of seeds which have been fed to animals is contained in a report published as Bulletin No. 128 of the Maryland Agricultural Experiment Station, College Park, Md., in June, 1908.

This valuable study of the question is briefly presented in the following summary:—

SUMMARY.

The above results were obtained through experiments concerning the vitality of weed seeds under the influence of their distribution by manure along two different lines; namely, the effect of fermenting manure on the vitality of weed seeds (seeds introduced through bedding) and the effect upon the vitality of weed seeds after passing through the digestive channel of domestic animals (seeds fed to animals).

The first part of the experiment was accomplished so as to cover the condition where manure remains for six months in a barnyard, pound or pile. The second covered conditions where the manure remained on piles for a short while, as when shipped by earload lots from cities.

From the above results the following conclusions seem justified:—

1st. When manure is allowed to ferment in piles for 6 months no danger of distributing weed seeds is incurred.

2nd. When manure is allowed to remain in piles and undergoing partial fermentation, little danger of distribution is incurred.

The second part of the experiment which dealt with the effect upon the vitality of weed seeds after passing through the digestive channels of domestic animals was accomplished so as to bring about three existing conditions.

1st. Manure hauled direct from the stable to the field as a top dressing and left there exposed to the washing of the rains.

2nd. Where the manure is hauled directly from the stable to the field where it is immediately ploughed under.

3rd. Where the domestic animals are allowed to run in pasture and the droppings are allowed to remain wherever they chance to fall.

From the above tables in the latter part, the following results were obtained:—

1st. Where the manure was hauled directly from the stable as a top dressing an average of only 12.8 per cent of the feds fed to animals germinated.

2nd. Where the manure was hauled directly from the stable upon the land and ploughed under, 2.3 per cent of the seeds fed to animals came up.

3rd. Where the droppings remained on the pasture fields unadulterated as they fell, an average of only 3.1 per cent of the seeds fed to animals germinated.

I have the following expression of opinion from Geo. H. Clark, Esq., Seed Commissioner of the Department of Agriculture, Canada.—

"There has been quite a large number of samples of mill feeds analysed in our seed laboratory covering the period of six years, and from the results of this work we have formed the opinion that the proportion of whole weed seeds contained in the feeding stuff depends largely on the care or lack of care on the part of the manufacturer.

Weed seeds in seed grain are probably five times more dangerous to agriculture than are weed seeds in mill feeds, for the reason that only a small per cent of the weed seeds fed to stock ultimately are put on the land in a viable condition.

For the present, I think I cannot do more than to express the opinion that if you were to tolerate five noxious weed seeds per pound of bran, shorts or chop feed before you consider their character affected as being free from the seeds of the said weeds within the meaning of your regulations, then field agriculture would be as well safeguarded as it now is under the regulations that are applied for a similar purpose under the Seed Control Act.

This last suggestion would place the limit at 5 vital seeds of noxious weeds per pound; and it is proper, in its regard, to further analyse the ease of 71 samples of this collection which contained less than 25 weed seeds per pound:—

	Samples.
20 or more weed seeds per pound.	8
15 " " " "	11
10 " " " "	14
5 " " " "	18
Less than 5 " "	20
Total	71

It may be found necessary to place the limit for vital weed seeds in bran, shorts and chop feeds as low as suggested by the Seed Commissioner. There can be no doubt, however, that when the number exceeds 25 seeds per pound, a reasonable limit is passed, and such samples must be regarded as adulterated, on this ground and altogether apart from considerations of nutritive value.

Many of these contain notable amounts of protein and fat, and if properly ground so as to destroy their vitality they might not be objectionable in a feed except in such species as contain acrid or poisonous principles.

Complaints have frequently reached this office to the effect that animals refused to eat certain feeds, or that ill effects have been noted after feeding.

The subjoined table gives details of 65 samples of feeds which contain more than 25 vital seeds per pound.

No. of Sample.	Seeds per lb.	Class.	Manufacturer.	Address.	Feeding Value.
46873.	112	Chop.	Canada Cereal Co.	Toronto	O. K.
46874.	80	"	Gunn & Co.	Halifax	"
46875.	43	"	"	"	"
46877.	128	"	Ogilvie Mill. Co.	Montreal	"
46880.	432	"	Halifax	Halifax	"
46882.	25	Bran	Ogilvie	Montreal	"
46894.	32	Shorts	Unknown	"	"
46307.	32	Bran	Ogilvie Mill. Co.	Montreal	"
46314.	96	"	"	"	"
46330.	176	Chop.	Can. Cereal Co.	Toronto	"
46331.	32	"	Ogilvie Mill. Co.	Montreal	"
50493.	512	Shorts	Dom. Flour Mills.	"	"
50499.	336	Middlings	Milling Co.	Woolverton	"
50503.	32	Chop.	Maynes & Riley	St. John, N.B.	"
50504.	43	"	Ogilvie Mill. Co.	Montreal	"
50506.	80	"	"	"	"
50507.	224	"	"	"	"
50508.	32	"	Cereal Mill. Co.	Tillsonburg	Adulterated.
50509.	320	"	Western F. M. Co.	"	O. K.
37278.	100	"	Ogilvie Mill. Co.	Montreal	"
39151.	32	Bran	Western F. M. Co.	"	"
39154.	26	"	Robin Hood Mills.	"	"
39163.	32	Shorts	St. Lawrence Mill. Co.	Montreal	"
39171.	144	Chop.	Consens & Co.	St. Jean	"
50942.	48	Shorts	West. Can. F. M. Co.	"	"
50293.	48	Chop	Sylvester & Son	Vankleek Hill	"
50294.	48	Bran	Campbell Co.	Peterboro'	"
50298.	352	Shorts	Quakers Oats Co.	"	"
51618.	64	Chop	West. Can. F. M. Co.	"	"
49590.	52	"	Geo. Gibson.	Kingston	"
49591.	64	"	W. J. Peters	"	"
49593.	43	"	W. M. F. Co.	"	"
49595.	32	"	Anderson Bros.	Kingston	"
49596.	112	"	"	"	"
49597.	48	"	E. F. M. Brown.	Washburn	"
51471.	32	Bran	West. Can. F. M. Co.	"	Doubtful.
51476.	176	"	Dom. F. M. Co.	Hamilton	O. K.
51479.	640	"	Wood Mill. Co.	"	"
51480.	32	"	Seaforth Mill. Co.	Seaforth	"
51488.	128	Shorts	Dom. F. M. Co.	Hamilton	"
51489.	64	"	Ogilvie Mill. Co.	Montreal	"
51496.	64	"	Unknown	"	"
51491.	96	Chop	Campbell F. M. Co.	Toronto	"
51495.	204	"	W. J. Baldwin.	Aurora	"
51497.	288	"	Dom. F. M. Co.	Hamilton	"
48127.	96	Bran	King Mill. Co.	Sarnia	"
48132.	48	Chop	A. J. Sutherland.	London	Adulterated.
48134.	96	Bran	Docter & Son.	"	O. K.
48165.	32	Chop	R. M. Pincombe.	Strathroy	"
48751.	32	Bran	Lake of Woods Co.	Portage la Prairie	"
49772.	544	Chop.	West. Can. F. M. Co.	Brandon	"
48776.	1,104	"	Ogilvie's	Winnipeg	"
48778.	48	"	W. Can. F. M. Co.	St. Boniface	"
49680.	64	"	Brackman Ker Co.	Strathcona	"
49682.	48	Bran	Ellison Mill. Co.	Leithbridge	"
38451.	128	"	Vanc. Mill. Co.	Vancouver	"
38454.	32	"	Robin Hood Co.	Moosajaw	"
38469.	48	Chop	F. T. Vernon	Vancouver	"
38476.	112	"	Brackman Ker Co.	New Westminster	"
38471.	64	"	McLellan & McCaster.	Vancouver	"
38473.	80	"	Brown & Hovey	"	"
38475.	432	"	A. E. Burnett & Co.	"	"
49265.	32	Shorts	Lake of Woods Co.	Portage la Prairie	"
49272.	112	Bran	Robin Hood Co.	Calgary	"
49280.	256	"	Ogilvie Mills	Winnipeg	"

From the above table it is seen that 62, perhaps 63, out of the 65 samples recorded as containing more than 25 vital weed seeds per pound are of satisfactory value as regards the nutritive values of the feeds. This does not prevent them from being judged as adulterated, provided that the limit number of 25 vital weed seeds per pound be held justifiable. From a study of all the work bearing upon this subject to which I have access, I am convinced that the limit suggested is quite liberal.

Thirty-seven samples are sold as chop, 18 samples as bran and 10 samples as shorts or middlings. It is to be expected that if unground weed seeds are to be found in cattle feeds they should appear in chop or in bran. They should not apparently be found in shorts or middlings because this product is supposed to represent only the result of such fine grinding as should ensure the destruction of the seeds by comminution. It would seem that whole weed seeds could only appear in shorts or middling by purposeful addition of waste or 'screenings.'

It is evident from this study that purchasers of stock feeds have little ground for complaint as regards the feeding value of these goods.

On the other hand, they contain very notable amounts of vital weed seeds, and, in the light of present knowledge are in my opinion adulterated when such contamination exceeds 25 seeds per pound.

The practice of adding 'screenings' or 'offal' to bran, shorts and chop is very objectionable, and unless the 'screenings' have been ground so fine as to destroy the vitality of the weed seeds contained must be held to be a violation not only of the Adulteration Act, but, in spirit at least, a violation of the Seed Control Act.

I beg to recommend publication of this report as Bulletin No. 254.

I have the honour to be, Sir,

Your Obedient Servant,

A. MCGILL,

Chief Analyst.

Date of Collection	Nature of Sample	No. of Sample	Name and Address of Vendor	Cost		Name and Address of Manufacturer or Furnisher as given by the Vendor		Inspector's Report. (Is not an expression of opinion).
				Quantity	Cents	Manufacturer	Furnisher	

DISTRICT OF NOVA SCOTIA—

1912.								
Sept. 11	Chop Feed.	46871	Wentzells Ltd., 3 lbs. Halifax, N.S.	Nil.		Quaker Oats Co., Peterboro, Ont.	Mfrs.	Registration No. 113.
" 23	"	46872	Quaker Oats Co., 3 Agency, Halifax, N.S.	"	"	"	"	"
" 24	"	46873	S. P. Goudy, Yar- 3 mouth, N.S.	"	"	Canada Cereal Co., Toronto.	E. Allen, Yar- mouth, N.S.	"
Oct. 2	"	46874	Gunn & Co., Hali- 3 fax, N.S.	"	"	Vendors	"	Pig Feed.
" 2	"	46875	" " " 3	"	"	"	"	"O & B" Chop
" 3	"	46876	C. B. McMullen, 3 Truro, N.S.	"	"	"	"	"Special" Br'd
" 3	"	46877	R. McG. Archi- 3 bald, Truro, N.S.	"	"	Ogilvie M. Co., Montreal.	Mfrs.	"Hercules" Brand.
" 3	"	46878	Colchester Co. F. 3 Co-op. Assoc., Truro, N.S.	"	"	Quaker Oats Co., Peterboro.	"	"Banner" Feed Marked reg- istered but number not given on bag.
" 5	"	46879	H. C. Barnaby & 3 Sons, Bridge- water, N.S.	"	"	"	"	"Schumacher" No. 13.
" 8	"	46880	F. A. Shaw, Hali- 3 fax, N.S.	"	"	Halifax M. M. Co., Halifax, N.S.	"	Crushed oats.
Sept. 11	Bran.	46881	Wentzells Ltd., 3 Halifax, N.S.	"	"	Lake of the Woods M. Co., Toronto.	"	"
" 19	"	46882	J. D. Stewart, 3 Halifax, N.S.	"	6	Ogilvie M. Co., Montreal.	"	"
" 20	"	46883	I. B. Shaffner & 3 Co., Halifax, N.S.	Nil.	"	Western F. M., Toronto.	"	No. 66.
" 20	"	46884	Estate of H. W. 3 Brown, Halifax, N.S.	"	"	Canada F. Mills, Chatham, Ont.	I. B. Shaffner Co., Halifax, N.S.	"
" 24	"	46885	S. P. Goudy, Yar- 3 mouth, N.S.	"	"	Maple Leaf Mills, Toronto.	Cochrane & Burns, Bos- ton, Mass.	"
" 25	"	46886	Shand Bros, Wini- 3 sor, N.S.	"	"	Quaker Oats Co., Peterboro.	Mfrs.	"
" 26	"	46887	F. W. Fraser, 3 Halifax, N.S.	"	"	Peterboro Cereal Co., Peterboro	"	"
" 26	"	46888	F. A. Shaw, Hali- 3 fax, N.S.	"	"	Maple Leaf Mills Co., Toronto.	I. B. Shaffner Co., Halifax, N.S.	"
" 27	"	46889	Gunn & Co., Hali- 3 fax, N.S.	"	"	Shank & Snider, Bridgeport, Ont.	Mfrs.	"
" 27	"	46890	G. A. Redman 43 Co., Dartmouth, N.S.	"	"	Maple Leaf Mills Co., Toronto.	"	"

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.				Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.			

R. J. WAUGH, INSPECTOR.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.					
10.33	3.29	10.5	11.48	3.66	3.4				46871	Meets guarantee.
			8.89	3.06	7.3				46872	Practically up to standard by compensating fat.
			10.60	4.36	4.6	112	Wild oats. False Flax. Canada Thistle. Wild Mustard.		46873	Genuine as to food value.
			9.83	3.12	3.2	80	Wild Oats. Ball Mustard.		46874	" " "
			10.15	4.28	5.2	43	Wild Oats. Wild Mustard.		46875	" " "
			9.55	4.64	7.8	11	Wild Oats.....		46876	" " "
			10.36	4.26	4.3	128	Wild Oats. Ball Mustard. Wild Mustard.		46877	" " "
8.50	3.50	9.00	8.82	3.38	6.3				46878	Meets guarantee.
10.50	4.00	10.50	9.94	2.30	9.2				46879	"
			11.97	3.84	11.7	432	Wild Mustard. Canada Thistle. False Flax Stink Weed		46880	Genuine as to food value high in weed seeds.
			15.09	4.62	9.2				46881	Genuine.
			14.13	4.62	9.0	25	Wild Oats		46882	" as to food value.
16.82	5.50	10.86	15.62	5.02	8.1	3	Wild Oats.....		46883	Meets guarantee.
			14.61	4.32	8.9				46884	Genuine.
			15.35	4.68	7.0				46885	"
			16.63	4.88	6.1				46886	"
			14.78	4.48	8.4				46887	"
			14.48	4.38	8.1				46888	"
			15.22	4.42	8.9	10	Wild Oats. Rag Weed		46889	"
			14.44	4.16	8.4				46890	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NOVA SCOTIA--

1912.								
Sept. 11	Shorts.....	46891	Wentzells Ltd Halifax, N.S.	3 lbs.	Nil.	W. F. Taylor Co., Chatham, Ont.		
" 19	"	46892	J. D. Stewart, Halifax, N.S.	3 "	6	Ogilvie M. Co., Montreal.	Nelson & Hart, Halifax, N.S.	
" 20	"	46893	I. B. Shaffner & Co., Halifax, N.S.	3 "	Nil.	" "	Mfrs.	
" 20	"	46894	Estate of H. W. Brown, Halifax, N.S.	3 "	"	Unknown	J. B. Shaffner Co., Halifax, N.S.	
" 24	"	46895	S. P. Goudy, Yar- mouth, N.S.	3 "	"	Ogilvie M. Co., Montreal.	Mfrs.	
" 25	"	46896	Shand Bros., Wind- sor, N.S.	3 "	"	Quaker Oats Co., Peterboro.	"	
" 26	"	46897	F. W. Fraser, Hal- ifax, N.S.	3 "	"	Campbell F. Mills, Toronto	"	
" 26	"	46898	F. A. Shaw, Hali- fax, N.S.	3 "	"	Unknown	J. B. Shaffner Co., Halifax, N.S.	
" 27	"	46899	Gunn & Co., Hali- fax, N.S.	3 "	"	T. H. Taylor Co. Chatham, Ont.	Mfrs.	
" 27	"	46900	G. A. Redmond & Co., Ltd., Dart- mouth, N.S.	3 "	"	Dom. F. Mills, Co., Brantford, Ont.	"	

DISTRICT OF PRINCE EDWARD ISLAND--

Sept. 6	Bran.....	46307	A. Horne & Co., Ch. Town, P.E.I.	3 lbs.	6	Ogilvie's Mont- real.		
" 13	"	46308	Auld Bros., Ch. Town, P.E.I.	3 "	6	Dom. F. Mills, Montreal.		
" 17	"	46309	Geo. Forbes, Ver- non River Bridge P.E.I.	3 "	6	Canada F. Mills, Chatham, Ont.		
" 23	"	46310	F. L. McNutt, Ch. Town, P.E.I.	3 "	6		G. H. Toombs, Ch. Town, P.E.I.	
" 23	"	46311	The P.E.I. Hay & Produce Co., Ltd. Ch. Town, P.E.I.	3 "	6	The Woodburn M. Co. Glencoe, Ont.		
" 23	"	46312	R. E. Mutch & Co., Ch. Town, P.E.I.	3 "	6	E. A. Barry, Montreal.		
" 27	"	46313	Carvell Bros., Ch. Town, P.E.I.	3 "	6	Ogilvie's, Mont- real.		
Oct. 1	"	46314	Brace McKay & Co. Summerside, P.E.I.	"	"	"		
" 3	"	46315	J. J. Hughes, Souris, P.E.I.	3 "	6	Taylor's, Chat- ham, Ont.		
" 3	"	46316	A. Currie, Souris, P.E.I.	3 "	8	Campbell M. Co., Toronto Jct., Ont.		

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		

Concluded.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
.....	.....	.....	15.13	4.74	7.3	.....	.....	46891	Genuine
.....	.....	.....	15.57	4.62	6.4	10	Campions, Wild Oats	46892	"
.....	.....	.....	15.92	4.56	5.9	.....	.....	46893	"
.....	.....	.....	15.80	4.78	5.8	52	Wild Mustard, Hare's Ear Mustard.	46894	Genuine as to food value.
.....	.....	.....	16.23	4.00	5.0	.....	.....	46895	" "
.....	.....	.....	13.78	3.82	6.5	.....	.....	46896	Low in proteids. Adulterated.
.....	.....	.....	15.80	5.12	7.7	.....	.....	46897	Genuine.
.....	.....	.....	16.23	4.72	5.8	4	Ball Mustard.	46898	"
.....	.....	.....	15.18	4.38	4.7	.....	.....	46899	"
.....	.....	.....	15.88	4.34	4.5	.....	.....	46900	"

WM. A. WEEKS, INSPECTOR.

.....	.....	.....	14.35	4.34	9.9	32	False Flax. Stink- weed.	46307	Genuine as to food value.
.....	.....	.....	13.96	4.56	9.4	.....	.....	46308	Genuine.
.....	.....	.....	14.17	3.62	9.1	.....	.....	46309	"
.....	.....	.....	15.09	3.52	9.9	.....	.....	46310	"
.....	.....	.....	14.96	4.78	8.9	.....	.....	46311	"
.....	.....	.....	14.57	5.12	9.8	.....	.....	46312	"
.....	.....	.....	15.05	4.78	9.0	.....	.....	46313	"
.....	.....	.....	14.13	4.24	9.3	96	Wild Oats. Wild mus- tard.	46314	Genuine as to food value.
.....	.....	.....	13.30	4.24	9.1	.....	.....	46315	Genuine.
.....	.....	.....	14.92	4.42	8.7	.....	.....	46316	"

Date of Collection.	Nature of Sample.	Nature of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF PRINCE EDWARD ISLAND—

1912.								
Sept.	13	Shorts.	46317 A. Horne & Co., Ch. Town, P.E.I.	3 lbs.	6	Taylor, Chatham Ont.		
"	13	"	46318 Auld Bros., Ch. Town, P.E.I.	3 "	6	Don. F. Mills, Montreal.		
"	17	"	46319 Geo. Forbes, Vernon River Bridge, P.E.I.	3 "	6	Canada F. Mills, Chatham, Ont.		
"	23	"	46320 F. L. McNutt, Ch. Town, P.E.I.	3 "	6		G. H. Toombs, Ch. Town, P.E.I.	
"	23	"	46321 The P. E. I. Hay & Produce Co., Ch. Town, P.E.I.	3 "	6		Auld Bros., Ch. Town, P.E.I.	
"	27	"	46322 Carvell Bros., Ch. Town, P.E.I.	3 "	6	Shirk & Snider, Bridgeport, Conn.		
Oct.	1	"	46323 Sinclair & Stewart, Summerside, P.E.I.	3 "	6	The J.W. Campbell Co., St. Thomas, Ont.		
"	1	"	46324 " "	3 "	6	Ogilvie M. Co., Montreal.		
"	3	"	46325 J. J. Hughes, Souris, P.E.I.	" "	6	Taylor's, Chatham, Ont.		
"	3	"	46326 Mathew & McLean, Souris, P.E.I.	3 "	6	Empire M. Co., St. Thomas, Ont.		
Sept.	17	Chop Feed	46327 George Forbes, Vernon River Bridge, P.E.I.	3 "	8	Canada F. Mills, Chatham, Ont.		
"	23	"	46328 F. L. McNutt, Ch. Town, P.E.I.	3 "	9		J. A. Farquharson & Co., Ch. Town, P.E.I.	
"	23	"	46329 The P.E.I. Hay & Produce Co., Ch. Town, P.E.I.	3 "	6	P.E.I. Farmer.	Unknown	
"	25	"	46330 Auld Bros., Ch. Town, P.E.I.	3 "	6	Canada Cereal Co., Toronto.		
Oct.	1	"	46331 Sinclair & Stewart, Summerside, P.E.I.	3 "	6	Ogilvie M. Co., Montreal.		
"	5	"	46332 Mathew & McLean, Souris, P.E.I.	3 "	8	Johnson & McDonald, New Glasgow, N.S.		
"	3	"	46333 Sterna Bros., Souris, P.E.I.	3 "	8	Atlantic M. Co., Pictou, N.S.		

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		

Concluded.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
			16.97	4.58	4.3			46317	Genuine
			15.22	4.22	4.5			46318	"
			16.19	4.92	7.2			46319	"
			16.80	3.92	4.4			46320	"
			16.58	4.22	4.1			46321	"
			16.44	4.44	3.4			46322	"
			16.97	4.66	5.8			46323	"
			16.06	4.76	3.4			46324	"
			16.63	2.52	8.8	16	Campions.....	46325	Low in fat—Compensated by excess proteids.
			15.44	4.26	3.9			46326	Genuine.
			9.20	3.24	1.6			46327	"
			8.35	2.80	1.4			46328	"
			12.04	4.48	8.9			46329	"
			10.50	3.33	2.6	176	Wild oats, wild mustard. Hare's Ear mustard.	46330	" as to food value.
			11.09	6.54	4.0	32	Great Ragweed. Wild Oats.	46331	" "
			9.71	3.60	1.7	1	Wild oats.....	46332	" "
			9.04	4.04	1.7			46333	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF NEW BRUNSWICK—

1912.								
Sept. 14	Bran	50480	C. H. Peters Sons Ltd., St. John, N.B.	3 lbs.	10	Quaker Oats Co., Peterboro, Ont.		"Bell Cow" Brand.
" 16	"	50481	James Collins, St. John, N.B.	3 "	10	Western F. M. Co., Ltd., Canada.		Protein 18.82% Fat 5.5% Fibre 10.88%
" 17	"	50482	P. Nase & Son, St. John, N.B.	3 "	10	Maple Leaf M. Co., Ltd., Toronto, Ont.		"Maple Leaf" Brand.
" 17	"	50483	L. C. Prime & Co., Ltd., St. John, N.B.	3 "	10	The Jas. Goldie Co. Ltd., Guelph Ont.		
" 25	"	50484	St. Martin's Trading Co., Ltd., St. Martin's, N.B.	3 "	10	Sask. M. Co., Ltd., Moosejaw, Sask.		"Robin Hood" Crude Protein 16.25% Fat 5.2% Crude Fibre 9.8%
" 25	"	50485	J. & J. S. Titus, St. Martin's, N.B.	3 "	10	Dom. F. M., Ltd., Montreal.		Labelled Pure Bran Feed.
Oct. 4	"	50486	Stroug & Nodden, Woodstock, N.B.	3 "	10	Maple Leaf M. Co., Ltd., Toronto, Ont.		"Maple Leaf" Brand.
" 5	"	50487	B. Beveridge, Andover, N.B.	3 "	10	Canada C. & M. Co., Tillsonbury, Ont.		
" 17	"	50488	I. & J. Ritchie, Newcastle, N.B.	3 "	10			Registration No. 66. Protein 16.82% Fat 5.5% Fibre 10.38%
" 18	"	50489	J. B. Snowball Co., Ltd., Chatham, N.B.	3 "	10	The Tavistock M. Co., Ltd., Tavistock, Ont.		
Sept. 14	Shorts	50490	C. H. Peters Sons Ltd., St. John, N.B.	3 "	10	Maple Leaf M. Co., Toronto, Ont.		"Maple Leaf" Brand.
" 16	"	50491	Jas. Collins, St. John, N.B.	3 "	10	Quaker Oats Co., Peterboro, Ont.		"Bell Cow" Brand.
" 17	"	50492	P. Nase & Son, St. John, N.B.	3 "	10		W. F. Barnhill, Fairville, N.B.	National Brand
" 17	"	50493	L. C. Prime & Co., Ltd., St. John, N.B.	3 "	10	Dom. F. Mills, Ltd., Montreal.		
Oct. 3	"	50494	M. E. Doohan, Fredericton, N.B.	3 "	10	The Campbell M. Co., West Toronto, Ont.		"Bull Rush" Brand.
" 3	"	50495	G. T. Whelpley, Estate, Fredericton, N.B.	3 "	10	Lake of the Woods M. Co., Montreal.		
" 4	"	50496	Stroug & Modden, Woodstock, N.B.	3 "	10	Maple Leaf M. Co., Ltd., Toronto, Ont.		"Maple Leaf" Brand.

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis			Vital Weed Seeds.		No. of Sample	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		

J. C. FERGUSON, INSPECTOR.

1 Cow "									
nd.			14.65	4.40	8.3			50480	Genuine.
n 18.82%									
5.5%			16.82	5.50	10.86	14.96	4.68	8.2	50481 Below guarantee in proteids. See Note 1—p.
re 10.88%									
le Leaf "			15.27	4.52	6.4			50482	Genuine.
nd.									
			14.39	4.34	8.5			50483	"
n Hood "			16.25	5.20	9.80	17.28	4.44	8.4	5 Hare's Ear mustard. . . 50484 Meets guarantee.
de Pro-									
16.25%									
t 5.2%									
le Fibre									
ed Pure									
n Feed.			13.96	4.60	9.5			50485	Genuine.
le Leaf "									
nd.			15.18	4.20	7.4			50486	"
			14.13	4.68	8.7			50487	"
stration			16.82	5.50	10.86	15.09	4.62	8.8	17 Stickseed. Wild oats. 50488 Below guarantee in proteids, but doubtful identification of the brand. Meets requirements for legal bran. See note 1.
66. Pro-									
16.82%									
t 5.5%									
re 10.38%									
			12.64	4.34	10.0			50489	Low in proteids, but excess of 1.34 p.c. fat compensates.
le Leaf "									
nd.			16.06	4.22	5.9			50490	Genuine.
Cow "			16.44	4.16	6.5			50491	"
nd.									
mal Br'nd			15.92	5.00	4.4		11 Wild Mustard. Hare's Ear Mustard.	50492	"
			14.70	4.02	3.2		512 Tumbling Mustard. . . .	50493	" as to food value high in weed seeds.
l Rush "			16.49	4.50	5.7		24 Stink Weed. Wild Mustard. Hare's Ear Mustard.	50494	" "
nd.									
			16.76	4.46	4.6			50495	Genuine.
le Leaf "			15.92	4.20	5.1			50496	"
nd.									

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF NEW BRUNSWICK—								
1912.								
Oct. 5	Shorts....	50497	B. Beveridge, Ant-dover, N.B.	3 lbs.	10	Canada C. & M. Co., Tillsonburg, Ont.		
" 17	Midlings.	50498	D. & J. Ritchie, Newcastle, N.B.	3 "	10	Don. F. Mills, Ltd.		
" 18	"	50499	J. B. Snowball Co., Ltd., Chatham, N.B.	3 "	10	The Wolverton M. Co., Ltd., Wolverton, O.		
Sept. 14	Chop Feed.	50500	C. H. Peters Sons, Ltd., St. John, N.B.	3 "	10	Maynes & Riley Mills City Road, St. John, N.B.		Cracked Corn & Oats.
" 16	"	50501	James Collins, St. John, N.B.	3 "	10	Quaker Oats Co., Peterboro, Ont.		"Banner" Brand.
" 17	"	50502	P. Nase & Son, St. John, N.B.	3 "	10	Steen Bros., St. John, N.B.		
" 19	"	50503	Maynes & Riley, Ltd., St. John, N.B.	3 "	10	Vendors		
Oct. 3	"	50504	John Gibson & Son, Fredericton, N.B.	3 "	10	Ogilvie F. M. Co., Montreal.		Puritan Brand
" 4	"	50505	J. M. Fripp, Medux-naque F. Mills, Woodstock, N.B.	3 "	10	Vendor		Product of Native Buck-wheat, whole contents of grain, except outer hull.
" 7	"	50506	J. W. McPhail, Perth, N.B.	3 "	10	Ogilvie M. Co., Ltd., Montreal		"Puritan" Brand.
" 15	"	50507	Sussex Mercantile Co., Ltd., Sussex, N.B.	3 "	10	" "		"Hercules" Brand.
" 16	"	50508	Trombs & Son, Moncton, N.B.	2 "	10	Canada C. & M. Co., Ltd., Tillsonburg, Ont.		"Edinboro" Chop.
" 16	"	50509	Reed & Co., Ltd., Moncton, N.B.	3 "	10	Western F. M. Co., Ltd.		"Jockey" Feed, Reg. No. 73. Protein 12.0. Fat 3.4 p.c. Crude Fibre 8.0 p.c.

DISTRICT OF QUEBEC—

Sept. 5	Bran.....	37252	N. Cantin, 133 Rue du Pont, Quebec	3 lbs.	10	Unknown	P. T. Busiere & Cie.	
" 5	Shorts.....	37253	" " " "	3 "	10	"	"	
" 16	".....	37254	Hamel & Bedard, 728 Rue St. Valier, Quebec.	3 "	6	"	"	
" 16	Bran.....	37255	" " " "	3 "	6	"	"	

BRAN, SHORTS, CHOP FEED.

Claim			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		

J. A. FERGUSON, INSPECTOR - *Concluded.*

			p.c.	p.c.	p.c.				
			16.80	4.90	5.7			50497	Genuine
			17.50	4.82	5.1			50498	"
			14.78	4.24	4.9	336	False Flax.	50499	" as to food value very high in weed seeds.
			9.71	3.82	2.8	5	Wild Oats. Ball Mustard.	50500	Genuine.
8.50	3.50	9.00	8.76	2.48	7.3	3	Stickseed.	50501	Meets guarantee.
			9.19	3.52	3.9			50502	Genuine.
			9.80	3.74	3.8	32	Wild Oats.	50503	" as to food value.
9.50	4.00	6.50	9.27	3.14	8.1	43	Wild Oats.	50504	Meets guarantee as to food value.
			19.30	2.38	1.6			50505	Genuine.
9.50	4.00	6.50	9.54	4.74	7.9	80	Wild Oats.	50506	Meets guarant as to food value.
			9.89	4.04	4.5	224	Docks. False Flax. Wild Oats. Ball Mustard. Hare's Ear Mustard.	50507	Genuine as to food value.
10.48	3.25	13.25	8.46	3.10	12.8	32	Wild Oats.	50508	Low in proteids, as guaranteed adulterated.
12.00	3.40	8.00	10.20	4.82	6.7	320	Campions. False Flax. Stink Weed. Hare's Ear Mustard.	50509	Below guarantee in proteids compensating fat excess 1.42 p.c. very high in weed seeds.

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

			14.39	4.42	7.9			37252	Genuine.
			12.12	1.60	11.1	2	Wild Oats.	37253	Low in proteids and fat. Adulterated.
			14.44	4.50	7.3	9	Wild Mustard.	37254	Genuine.
			16.40	3.76	3.2			37255	"

BULLETIN No. 254—

Date of Collection.	Nature of Sample.	Nature of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF QUEBEC—

1912.								
Sept. 17	Bran	37256	J. Rochette, 7 Rue D. Eliguy, Quebec.	3 lbs.	10	Unknown	J. B. Reneaud & Cie.	
" 16	Shorts	37257	" " "	3 "	12	"	"	
" 18	Bran	37258	M. Boyce & Son, 1921 Cote D'Abraham, Quebec.	3 "	9	"	P. J. Busiere, Quebec.	
" 19	"	37259	Jos. Boiteau, Rue Sutherland, Quebec.	27 3 "	10	"	J. B. Reneaud	
" 20	"	37260	G. Tanguay, Rue St. Paul, Quebec	3 "	Nil	St. Lawrence M. Flour Mills, Quebec.	Mfrs.	
" 20	Shorts	37261	" " "	3 "	"	Maple Leaf M. Co.	St. Lawrence Flour Mills,	
" 20	Bran	37262	W. Carrier et fils, 108 Rue Dalhousie, Quebec.	3 "	"	Ogilvie's, Montreal.	Mfrs.	
" 20	Shorts	37263	" " "	3 "	"	" " "	"	
" 20	Bran	37264	P. G. Busiere, Rue Dalhousie, Quebec.	3 "	"	" " "	"	
" 20	Shorts	37265	" " "	3 "	"	Maple Leaf M. Co.	"	
" 20	Chop Feed	37266	" " "	3 "	"	Vendor	"	
" 20	Bran	37267	D. E. Drolet, Rue Dalhousie, Quebec.	3 "	"	Lac Des Bois	Mfrs.	
" 20	Shorts	37268	" " "	3 "	"	Ogilvie's, Montreal.	"	
" 23	Bran	37269	J. E. Hall, 84 Rue Richardson, Quebec.	3 "	"	St. Lawrence Co.	"	
" 23	Shorts	37270	J. E. Drolet, 143 Rue du Pont, Quebec.	3 "	"	Maple Leaf M. Co.	Kirouack et fils.	
" 23	"	37271	Vezina & Filion, Rue du Pont, St. Roch Nord, Quebec.	3 "	"	Dom. Flour Mills.	Mfrs.	
" 23	Chop Feed	37272	" " "	3 "	"	Vendors	"	
" 23	Shorts	37273	Begin & frere, 67 Rue St. Roch, Quebec.	3 "	"	Maple Leaf Flour M. Co.	Mfrs.	
Oct. 8	Moule Avoine.	37274	J. B. Reneaud & Cie, Quebec.	3 "	"	F. Goulet, Beauport.	"	
" 8	Moule Kamout.	37275	"	3 "	"	Lake of the Woods M. Co., Montreal.	"	
" 8	Moule Shorts.	37276	"	3 "	"	Maple Leaf Co.	"	

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly		
			14.22	4.04	10.7		21 False Flax, Hare's Ear Mustard.	37256	Genuine
			12.56	3.19	8.1			37257	Low in proteids. Adulterated.
			14.74	4.44	8.5		11 Campions. Stink-Weed.	37258	Genuine.
			14.83	4.70	9.0		10 Wild Oats.	37259	"
			14.74	5.14	9.0		Campions.	37260	"
			15.75	4.28	5.6			37261	"
			14.44	4.40	9.5			37262	"
			16.84	4.24	5.4			37263	"
			16.49	4.72	6.2		6 Hare's Ear Mustard.	37264	"
			16.14	4.90	6.0		6 Campions.	37265	"
			15.31	4.58	8.5		5 Great Ragweed.	37266	"
			15.71	4.50	9.6			37267	"
			16.80	5.46	3.1			37268	"
			14.57	4.76	9.7			37269	"
			15.88	4.04	5.4			37270	"
			14.70	3.56	4.7			37271	"
			10.29	4.88	9.2			37272	"
			16.19	4.02	4.7			37273	"
			9.88	4.66	11.2			37274	"
			8.46	1.44	11.2			37275	Low in proteids. Adulterated.
			16.97	5.28	6.2			37276	Genuine.

Continued.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF QUEBEC—

1912.								
Oct.	8 Moulé Middlings.	37277	J. B. Renaud & Cie., Quebec.	3 lbs.	Nil.	Ontario Flour Mills.	Manufacturers	.....
"	8 Eureka Feed.	37278	"	3 "	"	Ogilvie T. Mills, Montreal.	"	.....
"	8 Barley Feed.	37279	"	3 "	"	"	"	.....
"	9 Moulé Avoine.	37280	N. Bertrand, 685 Rue St. Valier, Quebec	3 "	"	Vendor	.....	.....
"	9 Moulé Mele.	37281	"	3 "	"	Unknown	Julien et Cie, Quebec.	.....

DISTRICT OF ST. HYACINTHE—

Sept.	16 Bran	39145	E. Dionne, St Bonaventure.	3 lbs.	Nil.	Ogilvie M. Co., Montreal.	.....	.....
"	17 "	39146	D. Parent, Yamas ka West.	3 "	"	St. Lawrence M. Co., Montreal.	.....	.....
"	18 "	39147	C. Roberge, Sorel.	3 "	"	Lake of the Woods M. Co., Montreal.	.....	.....
"	19 "	39148	H. De la Barre, Lack St. Ours.	3 "	"	Vendor	.....	.....
"	24 "	39149	Chas. R. Cousins & Co., St. Jean.	3 "	"	Dom. F. Mills, Ltd., Brantford.	.....	.....
"	25 "	39150	Ed. Brosseau, Henryville.	3 "	"	St. Lawrence M. Co., Montreal.	.....	.....
Oct.	1 "	39151	Fuller & Wright, Sherbrooke.	3 "	"	Western Canada Flour Mills Co.	.....	.....
"	4 "	39152	G. B. Reed, North Hatley.	3 "	"	The Quaker Oats Co., Peterboro	.....	.....
"	8 "	39153	J. Dupaul, Valcourt Ely.	3 "	"	St. Lawrence M. Co., Montreal.	.....	.....
"	8 "	39154	E. Rogers, Eastman.	3 "	"	Robin Hood Mills, Ltd.	.....	Protein 16.26 %; Fat 5.2%; Fibre 9.8%.
Sept.	16 Shorts	39156	N. Simard, St. Germain de Grant-ham.	3 "	"	Maple Leaf M. Co.	Lake of the Woods M. Co., Montreal.	.....
"	17 "	39157	G. D. Tremblay, Pierreville Mills.	3 "	"	.....	Laperriere & fils, Pierreville.	.....
"	17 "	39158	L. Descheneau, Pierreville Mills.	3 "	"	West. Canada F. Mills Co.	.....	Registered No. 66 as best as I could read.
"	17 Middlings.	39159	"	3 "	"	Maple Leaf M. Co., of Canada	.....	.....
"	17 Shorts	39160	D. Parent, Yamas ka West.	3 "	"	.....	E. Benoit & fils, Montreal.	.....

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		

Concluded.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
			15.09	4.26	5.9	3	Wild oats.....	37277	Genuine
9.50	4.50	13.0	8.72	3.68	15.3	100	Wild oats. Wild mustard.	37278	Meets guarantee as to food value.
			9.45	3.86	9.5	4	Wild oats.....	37279	Genuine.
			7.55	1.62	15.1	3	Wild oats.....	37280	Low in proteids, high fibre. Adulterated.
			10.89	3.36	7.7			37281	Genuine.

J. C. ROULEAU, INSPECTOR.

			14.88	4.60	8.3			39145	Genuine.
			13.09	4.50	9.1	19	Campions. False flax.	39146	"
			15.09	4.58	7.5			39147	"
			17.94	4.58	9.1			39148	"
			14.00	4.64	8.8			39149	"
			14.48	4.84	9.2			39150	"
			15.57	4.30	8.8	32	Wild oats.....	39151	Genuine as to food value.
			14.57	4.68	8.6			39152	Genuine.
			14.48	4.94	9.7			39153	"
16.26	5.20	9.80	15.18	4.72	8.8	26	Stickseed. Wild oats.	39154	Meets guarantee as to food value.
			16.14	4.52	3.2			39156	Genuine.
			16.60	4.60	4.7			39157	"
16.82	5.50	10.86	11.94	4.08	12.3			39158	Low in proteids, either as guaranteed or as legal shorts. Adulterated.
			15.40	4.08	4.7			39159	Genuine.
			15.71	3.50	1.3			39160	"

BULLETIN No. 254—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF ST. HYACINTHE—

1912.								
Sept. 18	Special Middlings	39161	C. Roberg., Sorel.	3 lbs.	Nil	Lake of the Woods M. Co., Montreal.		
" 18	Shorts....	39162	U. St. Jean, Con- treneur.	3 " "	" "	Swan Lake Flour Mills Co.		
" 25	"	39163	Ed. Brosseau, Henryville.	3 " "	" "	St. Lawrence M. Co., Montreal.		
" 25	Middlings.	39164	" "	3 " "	" "	" "		
Oct. 2	Shorts....	39165	Ed. Durand, Me- gantic.	3 " "	" "	Ont. & Manitoba F. M. Ltd., Ottawa.		
Sept. 16	Moulée....	39167	Jos. Laberte, St. Germain de Grantham.	3 " "	" "	W. J. Watkins, St. G. de Grant-ham.		Orge, Sarrazin Bled'Inde & Pois.
" 16	Barley Feed	39168	E. Dionne, St. Bonaventure	3 " "	" "	Ogilvie M. Co., Montreal.		
" 17	Moulée 'Granite'	39169	A. Roberge, maska East.	3 " "	" "	" "		
" 18	Moulée Melangée	39170	J. P. Paul, Sorel.	3 " "	" "		J. B. Gagne, Sorel.	Orge, Avoine & Sarrazin.
" 24	Moulée Orge.	39171	Chas. R. Consins & Co., St. Jean.	3 " "	" "	Vendors.....		
" 26	'Kremo' Feed.	39172	N. Thompson, Frelshburg.	3 " "	" "	West. Canada F. M. Co.		Registered No. 74.
" 27	Moulée....	39173	J. H. Brault, St. Armand.	3 " "	" "	The Quaker Oats Co., Peterboro		Registered No. 13.
Oct. 3	Moulée de Ble En- dommagée.	39174	D. S. Bachand, Coaticook.	3 " "	" "	Vendor.....		
" 4	Moulée Melangée	39175	G. B. Reed, North Hatley.	3 " "	" "	" "		About 50% Bled'Inde & 50% Avoine.
" 9	Moulée 'Success'	39176	A. Leduc, Manson- ville.	3 " "	" "	St. Lawrence F. M. Co., Mont- real.		Bag stamped. Proteids 10.0%, Fat 2.50%, Fibre 18.0%.

DISTRICT OF MONTREAL—

Sept. 6	Bras	50931	Sinclair Bros., Lawrence Mkt. Place, Montreal.	3 lbs.	Nil	Lake of the Woods Milling Co., Ltd.		
" 6	"	50932	S. Leclerc, 1646 St. Lawrence Montreal.	3 " "	" "	" "		
" 6	"	50933	Canada Grain & Feed Co., St. Dominique St., Montreal.	3 " "	5	Unknown..		

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		

Concluded.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
			16.42	3.72	3.4			39161	Genuine.
			15.18	4.40	4.3			39162	"
			16.14	5.20	6.5	32	Stinkweed, wild mustard.	39163	" as to food value.
			16.40	5.04	6.3	1	Wild mustard.	39164	"
			17.30	4.98	5.7			39165	"
			14.22	1.86	5.5			39167	"
			13.47	3.34	3.6			39168	"
			15.88	3.88	4.3			39169	"
			9.62	2.34	15.0			39170	High in fibre—adulterated.
			12.12	2.10	4.8	144	Wild Oats, mustard.	39171	Genuine as to food value.
			11.56	2.16	16.20	10.67	1.70	39172	Up to guarantee.
			10.50	4.00	10.50	10.55	3.26	39173	"
				13.43	2.42	2.7		39174	Genuine.
				9.90	4.60	4.5		39175	"
			10.00	2.50	18.00	4.23	1.02	39176	Very low in proteids—high in fibre—adulterated.

J. J. COSTIGAN, INSPECTOR.

			14.74	4.62	9.8			50031	Genuine.
			14.92	4.58	9.9			50032	"
			15.31	4.78	5.6			50033	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF MONTREAL—								
1912.								
Sept. 7	Bran.	50934	Brennan Currie & Co., Place Youville, Montreal.	3 lbs.	Nil.	Campbell M. Co. Peterboro, Ont.		
" 16	"	50935	A. Guertin, 534 Notre Dame St. W., Montreal.	3 " " "	" " "	E. A. Barry...		
" 18	"	50936	E. Benoit et fils, 181 St. Paul St., Montreal.	3 " " "	" " "	H. Cook Sons & Co., Hensal, Ont.		
" 16	"	50937	J. P. Lebel, 69 Commissioner St., Montreal.	3 " " "	5	Lake of the Woods M. Co., Ltd.		Protein 14.5% Fat 4.0% Crude Fibre 10.0%
" 19	"	50938	F. X. Benoit, 201 St. Paul St., Montreal.	3 " " "	5	H. Cook Son & Co.		
" 6	Shorts	50941	Sinclair Bros., St. Lawrence Market Place, Montreal.	3 " " "	Nil.	Lake of the Woods M. Co., Ltd.		
" 7	"	50942	Brennan Currie & Co., Place Youville, Montreal.	3 " " "	5	Western Canada M. Co., Ltd.		
" 16	"	50943	A. Guertin, 534 Notre Dame St. W., Montreal.	3 " " "	5	E. A. Barry...		
" 16	"	50944	E. Benoit et fils, 181 St. Paul St., Montreal.	3 " " "	5	Maple Leaf M. Co.		
" 18	"	50945	J. P. Lebel, 69 Commissioner St., Montreal.	3 " " "	8	Western Canada F. Mills Co.		Registered No. 63.
" 18	Middlings . .	50946	" " "	3 " " "	7	Ogilvie F. Mills Co., Ltd.		
" 19	Shorts	50947	W. Lamarre & Co., Atwater Ave., Montreal.	3 " " "	Nil.	Dom. Flour M. Co., Ltd.		
" 19	Middlings . .	50948	F. X. Benoit, 201 St. Paul St., Montreal.	3 " " "	5			
" 20	Shorts	50949	F. Gobeille et fils, Henri Julian Ave., Montreal.	3 " " "	Nil.	Robin Hood Mills, Ltd.		
" 7	Chop Feed . .	50951	Brennan Currie & Co., Place Youville, Montreal.	3 " " "	"	McDonald Robb Co., Valleyfield, P.Q.		
" 18	"	50952	E. Benoit et fils, 181 St. Paul St., Montreal.	3 " " "	5	W. L. Hogg, Montreal.		
" 16	Middlings . .	50953	A. Guertin, 534 Notre Dame St., Montreal.	3 " " "	Nil.	Dom. Flour Mills Co., Ltd., Brantford, Ont.		

BRAN, SHORTS, CHOP FEED.

Chem.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		

Continued.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
			14.39	4.36	9.9	16 Wild oats.	Ball mus-	50934	Genuine
						tard.			
			14.74	5.04	9.8			50935	"
			14.17	4.36	7.6			50936	"
14.50	4.00	10.00	16.44	4.60	9.2			50937	Meets guarantee.
			14.57	3.82	6.7			50938	Genuine.
			17.29	4.84	5.3			50941	"
			14.13	4.02	9.6	48 Wild Oats.	Campions	50942	" as to food value.
			16.06	4.70	9.5			50943	"
			16.58	4.08	9.6			50944	"
18.38	6.02	7.99	17.98	5.22	5.1			50945	Meets guarantee.
			15.97	3.80	3.8			50946	Genuine.
			14.00	2.54	2.3			50947	"
			16.84	4.00	3.6			50948	"
			15.79	4.12	5.4			50949	"
			16.10	3.54	7.6	3 Wild Oats.		50951	"
			10.28	3.96	12.6	5	"	50952	High in fibre. Pass, as high in fat.
			14.83	3.24	3.3			50953	Genuine.

BULLETIN No. 254—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF MONTREAL								
1912.								
Sept. 18	Chop Feed	50954	J. P. Lebel, 693 Commissioner St., Montreal.	3 lbs.	5	Lake of the Woods M. Co., Ltd.		Kamoat Reg. No. 50.
" 19	"	50955	A. Lamarre & Cie., Atwater Ave., Montreal.	3 "	Nil.	Vendor		
" 19	"	50956	F. X. Benoit, 201 St. Paul St., Montreal.	3 "	5			" Champion ".
" 20	"	50957	Gobeille et fils, Henri Julien Ave., Montreal.	3 "	Nil.	John Mackays, Bowmanville, Ont.		Pure Mixed Feed.

DISTRICT OF OTTAWA—

Sept. 7	Bran	50288	C. Whitney & Son, Prescott.	3 lbs.	Nil.	Ogilvie's Ltd.	Mfrs.	
" 7	Shorts	50289	" " "	3 "	"	"	"	
" 7	Chop Feed	50290	" " "	3 "	"	"	"	
Aug. 30	Bran	50291	W. C. Sylvester & Son, Vankleek Hill.	3 "	"	Vendors.		
" 30	Shorts	50292	" " "	3 "	"	"		
" 30	Chop Feed	50293	" " "	3 "	"	"		
" 31	Bran	50294	A. V. McLean, Perth, Ont.	3 "	"	Campbell M. Co., Peterborough.	Mfrs.	
" 31	Shorts	50295	" " "	3 "	"	"	"	
" 31	Chop Feed	50296	" " "	3 "	"	"	"	
Sept. 6	Bran	50297	A. E. Cameron, Brockville.	3 "	"	Ogilvie M. Co.	"	
" 6	Shorts	50298	H. Brown & Sons, Brockville.	3 "	"	Quaker Oats Co., Peterborough.	"	
" 6	Chop Feed	50299	A. E. Cameron, Brockville.	3 "	"	Vendor.		
" 17	Bran	51614	The Maple Leaf M. Co., Ltd., Ottawa.	3 "	"	Vendors		
" 17	Shorts	51615	" " "	3 "	"	"		
" 17	Bran	51616	The West-Canada F. M. Co., Ottawa.	3 "	"	"		Reg. No. 66. Protein 16.82% Fat 5.6% Fibre 10.86%
" 17	Shorts	51617	" " "	3 "	"	"		Reg. No. 63. Protein 18.38% Fat 6.02% Fibre 7.99%

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		

Concluded.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
11.00	2.50	16.00	8.22	1.62	13.8			50954	Low in proteids as guaranteed. Adulterated.
			10.25	5.30	8.2	6	Western False Flax	50955	Genuine.
			10.80	5.00	7.6	13	Stink Weed. Hare's Ear Mustard.	50956	"
			12.60	3.14	9.1			50957	"

J. A. RICKEY, INSPECTOR.

			14.04	4.72	10.4			50288	Genuine.
			15.01	4.34	5.6			50289	"
			10.14	5.40	9.2	9	Western False Flax	50290	"
			16.23	3.68	6.9			50291	Genuine.
			15.01	4.26	3.4			50292	"
			13.47	3.26	5.2	48	Wild Mustard	50293	" as to food value.
			13.82	4.34	8.3	48	Great Rag Weed. Sow Thistles. Canada Thistle.	50294	" "
			16.97	5.42	5.8	11	Wild Oats. Ball Mustard.	50295	"
			12.60	2.84	9.8			50296	"
			15.27	4.74	8.7			50297	"
			16.93	4.94	4.6	352	Tumbling Mustard	50298	Genuine as to food value. High in weed seeds.
			10.60	5.36	7.3	18	Western False Flax. Wild oats.	50299	Genuine.
			14.26	4.28	8.7			51614	"
			15.35	3.68	5.2			51615	"
16.82	5.50	10.86	14.34	4.20	9.0	13	Wild oats. Wild Mustard. Hares Ear Mustard.	51616	Below guarantee in proteids. See note 1 p.
18.38	6.02	7.99	16.62	4.66	5.6			51617	Below guaranteed. See note 2. Adulterated.

BULLETIN No. 234—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF OTTAWA—								
1912.								
Sept. 17	Chop Feed.	51618	The West-Canada F.M.Co., Ottawa	3 lbs.	Nil.	Vendors		"Good Luck" Brand.
" 19	Bran . . .	51620	J. A. Forward, Ottawa.	3 "	"	Lake of the Woods Milling Co.	Mfrs.	
" 19	Shorts ...	51621	" " "	3 "	"	" " "	" " "	
" 19	Bran	51622	Wm. Scott & Co., Deschenes, P.Q.	3 "	"	Vendors.		
" 19	Shorts	51623	" " "	3 "	"	" " "		
" 19	Chop Feed.	51624	" " "	3 "	"	" " "		Barley Chop..
" 20	" " "	51625	J. W. McKay, Ottawa.	3 "	"	W. R. Cummings, Cummings Bridge.	Mfrs.	"All Grain."
" 20	" " "	51628	W. D. Ardley, Ottawa.	3 "	"	" " "	" " "	
" 20	Bran	51629	A. Bergevin, Dalhousie St., Ottawa.	3 "	"	Ontario & Manitoba F.M.Ltd., Ottawa.	Mfrs.	
" 20	Shorts	51630	" " "	3 "	"	" " "	" " "	
" 20	Shorts.	51631	" " "	3 "	"	Dowd Milling Co.	" " "	
" 20	Chop Feed.	51632	Larose Bros., Cumberland St. Ottawa.	3 "	"	Quaker Oats Co., Peterboro.	" " "	"Banner"—Reg. No. 16—Protein 8.5%—Fat 3.5%—Fibre 9.0%.
" 20	" " "	51633	Larose Bros., Cumberland St., Ottawa.	3 "	"	Chisholm M. Co., Toronto.	" " "	"Crescent"—Reg. No. 84—Protein 9.0%—Fat 5.0%—Fibre 20.0%.
" 20	Bran.	51635	Ed. St. Germain, Byward Market, Ottawa.	3 "	"	Lake of the Woods M. Co., Keewatin.	" " "	No registered number on bags—Protein 14.5%—Fat 5.0%—Fibre 10%.

DISTRICT OF KINGSTON—

Sept.	3	Bran	49570	Geo. Gibson, Kingston.	3 lbs.	5	Ogilvie Co.	
"	3	" " " " " "	49571	W. P. Peters, Kingston.	3 "	10	Lake of the Woods M. Co., Ltd.	
"	3	" " " " " "	49572	Hedley Shaw, Kingston.	3 "	10	Hedley Shaw Milling Co.	

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		

Concluded.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
			12.30	3.88	11.6	64 Wild Oats. Wild Must.	ard. Cow Cockle.	51618	Genuine as to food value.
			14.78	4.80	9.6			51620	Genuine.
			16.90	4.74	5.2			51621	"
			14.83	4.74	10.2			51622	"
			15.22	4.40	8.9			51623	"
			11.40	1.88	4.4			51624	"
			10.98	4.28	9.0			51625	"
			14.17	2.32	5.4			51628	"
			14.78	4.34	8.8	21 Wild O.		51629	"
			17.59	5.04	4.9			51630	"
			17.19	4.76	4.9			51631	"
8.50	3.50	9.00	8.58	3.24	6.4	4 Wild mustard		51632	Meets guarantee.
9.00	5.00	20.00	11.03	3.42	16.1	9 Stinkweed		51633	"
14.50	4.00	10.00	15.14	4.58	8.8	3 Stinkweed		51635	"

JAS. HOGAN, INSPECTOR.

	11.17	1.28	16.5		49570	Genuine.
	15.44	4.40	9.3		49571	"
	14.00	4.36	9.2		49572	"

Date of Collection	Nature of Sample	No. of Sample	Name and Address of Vendor	Cost		Name and Address of Manufacturer or Finisher as given by the Vendor		Inspector's Report (Is not an expression of opinion.)
				Quantity	Cents	Manufacturer	Furnisher	
DISTRICT OF KINGSTON								
Sept. 3	Brass	49573	Kingston M. Co., 3 lbs.	5		Vendors		
" 3	"	49574	J. A. MacFarlane, 3 "	5		West F. M. Co.		
" 3	"	49575	D. Hutchison, 3 "	5		Ogilvie Co.		
" 4	"	49576	Anderson Bros., 3 "	5		Hedley Shaw Milling Co.		
" 4	"	49577	C. H. Pickering Kingston.	8			W. P. Peters, Kingston.	
" 11	"	49578	Campbell, C. M. 3 "	5		Vendors		
" 11	"	49579	Quaker Oats Co., 3 "	5		"		
" 3 Shorts	"	49580	Kingston M. Co., 3 "	5		"		
" 3	"	49581	D. Hutchison, 3 "	5		Ogilvie Co.		
" 4	"	49582	Anderson Bros., 3 "	10		Hedley Shaw M. Co.		
" 4	"	49583	J. Martin, Kingston.	5		Hedley Shaw M. Co.		
" 9	"	49585	H. E. Fairfield, 3 "	5		Quaker Oats, Peterboro.		
" 9	"	49586	J. Pantar & Son, 3 "	5		J. Cook Hensall, Belleville.		
" 10	"	49587	E. A. Duncans, 3 "	5		Ogilvie Co.		
" 10	"	49588	The Thompson 3 "	5		Leach Co., Oak Macdonald Co., Cobourg.		
" 11	"	49589	Campbell F. Mills 3 "	5		Vendors		
" 3 Chop Feed	"	49590	Geo. Gibson, 3 "	5		Vendor		
" 3	"	49591	W. J. Peters, 3 "	10		"		
" 3	"	49592	Kingston Manufg 3 "	5		Vendors		
" 3	"	49593	J. A. Farlane, 3 "	6		West F. Mills Co.		
" 3	"	49594	D. Hutchison, 3 "	"		Vendor		
" 4	"	49595	Anderson Bros., 3 "	10			W. J. Peters, Kingston.	
" 4	"	49596	C. H. Pickering, 3 "	8				
" 4	"	49597	J. W. Martin, 3 "	10		E. F. McBroon, Washburn.		
" 11	"	49598	Campbell F. Mills 3 "	5		Vendors		
" 11	"	49599	Quaker Oats Co., 3 "	5		"		
" 11 Shorts	"	49600	" 3 "	5		"		

BRAN, SHORTS, CHOP FEED.

Chem.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		
<i>Continued.</i>									
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
			15.44	4.52	8.0			49573	Genuine.
			15.62	4.60	8.2			49574	"
			13.52	4.56	10.2			49575	"
			14.60	4.06	9.8			49576	"
			14.34	4.44	9.7			49577	"
			13.74	4.74	9.6			49578	"
			15.05	4.52	8.5			49579	"
			17.41	5.48	4.6			49580	"
			15.18	4.16	5.3			49581	"
			16.71	4.74	5.3			49582	"
			15.79	2.46	2.7			49583	"
			15.71	4.40	4.2			49585	"
			16.01	4.26	4.5			49586	"
			15.79	4.22	4.6			49587	"
			16.67	4.50	5.0			49588	"
			15.75	5.30	6.4			49589	"
			14.13	4.10	9.6	52	Wild mustard. Docks.	49590	Genuine as to food value.
			10.95	5.20	8.2	64	False Flax. Stinkweed	49591	" "
			10.71	3.76	9.3	4	False Flax.....	49592	Genuine.
			14.17	2.76	2.8	43	False Flax. Stinkweed.	49593	" as to food value.
			10.94	4.00	9.2	8	Campions.....	49594	"
			10.11	4.25	9.2	32	Campions. False Flax Ragweed. Stinkweed Wild mustard.	41595	" as to food value.
			10.41	5.28	9.3	112	Wild oats. Wild mustard.	49596	" "
			10.87	5.68	8.7	48	Wild oats.....	49597	" "
			9.28	2.64	1.1			49598	"
			8.30	3.24	10.0	6	False Flax.....	49599	Low in proteids; but excess fat compensates.
			17.06	4.36	5.5			49600	Genuine.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF TORONTO—

1912.								
Sept. 18	Bran.....	51471	Jas. Pearson, 1948 Dundas St., West Toronto.	3 lbs.	5	West. Canada M. Co., Toronto.	Reg. No. 66—Protein 16.82 %—Fat 5.5% Fibre 19.86	
" 19	"	51472	Lewis & Steveson, 912 Bloor St., West Toronto.	3 "	5	Lake of the Woods M. Co. Ltd., Toronto.	Bags are branded L. W. Bran. K.	
" 23	"	51473	R. Knowles, 658 Yonge St., Toronto.	3 "	5	Alex. Brown M. & E. Co. Ltd., Toronto.	Bags are branded with letter B.	
" 23	"	51474	Wm. Stoughton, 439 Yonge St., Toronto.	3 "	5	The Campbell M. Co., Ltd., Toronto.	"Bull Rush" Brand.	
" 30	"	51475	Jas. Dunlop Co., Ltd., 127 John St., South Hamilton.	3 "	5	S. Lukes Bradford.		
" 30	"	51476	J. Penfold, 98 John St., South Hamilton.	3 "	5	Dom. F. M. Co. Ltd., Hamilton.		
" 30	"	51477	W. Pringle & Son, 280 York St., South Hamilton.	3 "	5	Maple Leaf M. Co., Ltd., Port Colborne.		
" 30	"	51478	Bennett & Son, 188 King St., West Hamilton.	3 "	5	Ker Milling Co., Dundas		
" 30	"	51479	A. Dymont & Son, Boston & Emerald Sts., Hamilton.	3 "	5	Wood Milling Co., Ltd., Hamilton.		
" 30	"	51480	A. W. Swaize, 493 Barton St., East Hamilton.	3 "	6	Seaforth Milling Co., Ltd., Seaforth.	Bags are branded—Seaforth M. Co. Ltd., Bran — Seaforth.	
" 18	Shorts	51481	H. Dent, 1523 Dundas St., West Toronto.	3 "	5	Kewatin M. Co., Ltd., Toronto.		
" 19	"	51482	Chalmers Milling Co., East Toronto.	3 "	5	Vendors		
" 19	"	51483	Elliott & Armstrong, 1554 Danforth Ave., East Toronto.	4 "	5	West. Canada F. M. Co., Ltd., Toronto.	Reg. No. 63, Protein 18.38 %—Fat 8.02 %—Fibre 2.90	
" 19	"	51484	Crompsiey & Kelly, 780 Dufferin Ave., Toronto.	3 "	5	Maple Leaf M. Co., Ltd., Toronto.	Bags are Branded, Maple Leaf Milling Co., Ltd., Trade Mark reg. Maple Leaf.	

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		

H. J. DAGER, INSPECTOR.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
16.82	5.50	10.86	14.92	4.12	8.6	32 Campions, Hare's Ear mustard.	51471	Below guarantee in proteids. See 1—p.	
			14.39	4.66	9.5		51472	Genuine.	
			14.04	4.56	9.4		51473	"	
			14.39	4.50	9.6		51474	"	
			15.44	4.56	8.4	13 Wild oats	51475	"	
			13.65	4.50	9.2	176 False Flax, Canada Thistle, Wild oats, Hare's Ear mustard	51476	" as to food value.	
			15.57	4.62	7.2		51477	"	
			14.65	4.48	9.4		51478	"	
			14.04	4.20	8.2	640 Canada Thistle, False flax, Tumbling mustard, Docks, Campions.	51479	Genuine as to food value, very high in weed seeds.	
			13.91	4.60	9.7	32 Ribgrass, Wild oats	51480	Genuine as to food value.	
			17.46	4.72	4.7		51481	Genuine.	
			16.72	4.58	2.3		51482	"	
18.38	6.02	7.99	16.14	4.46	7.5		51483	Below guarantee. Meets requirements for Shorts. See Note 2, p. adulterated.	
			16.40	4.30	7.0		51484	Genuine.	

BULLETIN No. 254—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cost.	Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
						Manufacturer.	Furnisher.	
DISTRICT OF TORONTO—								
1912.								
Sept. 19	Shorts	51485	G. Forsyth, 495 Bathurst, Toronto.	3 lbs.	5	Alex. Brown M. Co., Ltd., Toronto.		
" 20	"	51486	Geo. Forester, Newmarket.	3 "	5		Ogilvie-Milling Co., Ltd., Montreal.	
" 23	"	51487	Lake of the Woods M. Co., Ltd., Newmarket.	3 "	5	Vendors.		
" 30	"	51488	D. Stein, 444 York st., Hamilton.	3 "	5	Dom. F. Mills Co., Ltd., Hamilton.		
" 30	"	51489	Geo. Matheson, 45 Wellington st. north, Hamilton.	3 "	5	The Ogilvie F. Mills Co., Ltd., Montreal.		
Oct. 1	"	51490	W. Kerns & Co., Burlington.	3 "	5	Unknown		
Sept. 18	Chop Feed (Screenings)	51491	The Campbell F. Mills Co., Ltd., West Toronto.	3 "	5	Vendors		Screenings from various kinds of grain.
" 19	Chop Feed	51492	Wm. Hanna & Co., East Toronto.	3 "	5	"		Composed of Manitoba Wheat.
" 20	"	51493	Stiver Bros., Aurora.	3 "	10	"		
" 20	"	51494	J. Reynolds, Aurora.	3 "	10	The Campbell F. M. Co., Ltd., West Toronto.		
" 20	"	51495	W. J. Baldwin, Aurora.	3 "	5	Vendor		
" 20	"	51496	W. H. Eves, Newmarket.	3 "	5	"		
" 30	"	51497	Dom. Flour Mills Co., Ltd., 75 Main st. east, Hamilton.	3 "	5	Vendors		
" 30	"	51498	Hamilton Milling Co., Market and Park sts., Hamilton.	4 "	5	"		
Oct. 1	"	51499	Kerr Milling Co., Ltd., Dundas.	3 "	5	"		
" 3	"	51500	Wm. Clark, 49 Mc Nab st north, Hamilton.	3 "	5	"		

DISTRICT OF WINDSOR—

Sept. 30	Bran	48127	A. M. Hamilton & Son, London.	3 lbs.	6	King Milling Co., Sarnia.		
" 30	Shorts	48128	"	3 "	6	Docter Milling Co., London.		

BRAN, SHOKTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chaffy.		
<i>Concluded.</i>									
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
			14.57	4.14	5.5	4	Western False Flax...	51485	Genuine
			16.10	4.60	6.4			51486	"
			17.02	4.90	5.4			51487	"
			15.92	4.72	5.1	128	Western False Flax, False Flax, Stinkweed, Ball mustard, Wild mustard.	51488	Genuine as to food value.
			15.75	4.74	4.6	64	False Flax, Wild mustard.	51489	" "
			15.44	3.80	6.7	64	Wild oats.....	51490	" "
			12.26	3.36	12.1	96	Hare's Ear mustard, Campions, Stinkweed.	51491	" "
			13.26	2.64	3.6			51492	Genuine.
			12.64	2.44	4.1	14	Wild mustard.....	51493	"
			13.21	2.54	2.7	11	Wild oats. Ball mustard.	51494	"
			13.15	2.98	4.2	208	False Flax, Campions, Docks, Wild mustard.	51495	Genuine as to food value.
			9.90	4.72	12.3			51496	Genuine.
			12.43	3.20	4.9	288	False Flax, Wild oats.	51497	Genuine as to food value.
			13.21	2.88	4.1	10	Campions, False Flax.	51498	Genuine.
			11.84	4.76	7.8			51499	"
			13.36	2.48	3.1			51500	"

JNO. TALBOT, INSPECTOR.

	15.09	4.44	9.3	96	Docks, Wild oats, Wild mustard.	48127	Genuine as to food value.
	16.23	4.40	7.0			48128	Genuine.

BULLETIN No. 254—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF WINDSOR —								
1912.								
Sept.	30 Chop Feed.	48129	A. M. Hamilton & Son, London.	3 lbs.	6	Vendors		
"	30 Shorts	48130	Jas. Tatchell, London.	3 "	4	Docter & Son, London.		
"	30 Bran	48131	" " " "	3 "	4	J. Hawkins, St. Johns.		
"	30 Chop Feed	48132	" " " "	3 "	5	A. J. Sutherland, London.		
"	30 Shorts	48133	R. Hookway & Son, London.	3 "	7	Docter & Son, London.		
"	30 Bran	48134	" " " "	3 "	7	" " " "		
"	30 Chop Feed	48135	" " " "	3 "	7	Hunt Bros., London.		Corn chop.
"	30 Bran	48136	Leith & Staples, London East.	3 "	5	" " " "		
"	30 Shorts	48137	" " " "	3 "	5	" " " "		
"	30 Bran	48138	Adams & Tanton, London.	3 "	5	Harvey Bros., Exeter.		
"	30 Shorts	48139	" " " "	3 "	5	E. Docter & Son, London.		
"	30 Chop Feed	48140	" " " "	3 "	5	Unknown		Corn chop.
Oct.	2 Bran	48141	C. & J. Morrison, Petrolia.	3 "	5	C. B. Matthews & Son, Watford.		
"	2 Shorts	48142	" " " "	3 "	5	Empire F. Mills, St. Thomas.		
"	2 Chop Feed	48143	" " " "	3 "	5	Vendors		
"	2 Shorts	48144	John Bickle & Co., Petrolia.	3 "	Nil.	Lake of the Woods M. Co.		
"	2 Bran	48145	" " " "	3 "	"	" " " "		
"	2 Chop Feed	48146	" " " "	3 "	"	Vendors		
"	3 Shorts	48155	Gardner Bros., Sarnia.	3 "	5	Lake of the Woods M. Co.		
"	3 Bran	48156	" " " "	3 "	4	" " " "		
"	4 Shorts	48163	R. M. Pineson, Strathroy.	3 "	Nil.	Vendors		
"	4 Bran	48164	" " " "	3 "	"	" " " "		
"	4 Chop Feed	48165	" " " "	3 "	"	" " " "		
"	4 Chop Feed	48166	G. S. Donaldson, Strathroy.	3 "	"	" " " "		
"	4 Shorts	48167	" " " "	3 "	"	" " " "		
"	4 Bran	48168	" " " "	3 "	"	" " " "		

BRAN, SHORTS, CHOP FEED.

Claims.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Dried.	Fibre.	No. per lb.	Chiefly.		
<i>Continued.</i>									
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
			11.51	3.78	6.0			48129	Genuine.
			16.80	5.86	6.1			48130	"
			15.09	4.54	9.9	4	Ragweed.	48131	"
			8.46	2.68	6.6	48	Wild Mustard, Docks.	48132	Low in proteids. Adulterated.
			16.10	4.90	6.3			48133	Genuine.
			13.56	4.60	9.7	96	Purple Cockle, Ball mustard, Wild mustard, Hare's Ear mustard.	48134	" as to food value.
			8.98	3.81	1.9			48135	"
			15.40	4.60	9.2			48136	"
			15.79	4.34	6.0			48137	"
			13.74	4.48	9.8			48138	"
			16.06	5.36	6.6			48139	"
			8.90	3.32	1.6	1	Hare's Ear mustard.	48140	"
			13.74	4.16	6.1			48141	"
			16.40	4.90	4.4			48142	"
			12.43	2.10	3.8	4	Wild oats.	48143	"
			17.86	4.42	4.1			48144	"
			14.09	4.00	5.8			48145	"
			11.33	3.46	7.7	13	Docks, Campions.	48146	"
			17.02	4.90	5.8			48155	"
			15.53	4.52	9.9			48156	"
			14.88	3.54	4.9			48163	"
			13.39	4.12	9.0	5	Wild oats.	48164	"
			11.55	2.78	6.6	32	Docks, Campions.	48165	" as to food value.
			11.88	4.20	7.1			48166	"
			15.05	4.00	4.6	16	False Flax	48167	"
			12.47	4.08	8.5			48168	Low in proteids compensating fat and fibre.

District of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF MANITOBA								
1912.								
Oct.	1 Bran.	48751	The Lake of the Woods M. Co., Portage La Prairie.	3 lbs.	Nil.	Vendors		
"	2 "	48752	Western Canada F. Mills Co., Brandon.	3 "	"	"	"	
"	2 "	48753	Maple Leaf Milling Co., Brandon.	3 "	"	"	"	
"	2 "	48754	G. McCulloch & Sons, Souris.	3 "	"	"	"	
"	3 "	48755	Leitch Bros. M. Co., Oak Lake.	3 "	"	"	"	
"	4 "	48756	The Ogilvie F. Mills Co., Winnipeg.	3 "	"	"	"	
"	4 "	48757	Western Canada F. Mills Co., St. Boniface.	3 "	"	"	"	
"	1 Shorts	48761	The Lake of the Woods M. Co., Port La Portage.	3 "	"	"	"	
"	2 "	48762	Western Canada F. M. Co., Brandon.	3 "	"	"	"	
"	2 "	48763	Maple Leaf M. Co., Brandon.	3 "	"	"	"	
"	2 "	48764	G. McCulloch & Sons, Souris.	3 "	"	"	"	
"	3 "	48765	Leitch Bros. M. Co., Oak Lake.	3 "	"	"	"	
"	4 "	48766	The Ogilvie F. Mills Co., Winnipeg.	3 "	"	"	"	
"	4 "	48767	Western Canada F. M. Co., St. Boniface.	3 "	"	"	"	
"	1 Chop Feed	48771	The Lake of the Woods M. Co., Portage La Prairie.	3 "	"	"	"	
"	2 "	48772	Western Canada F. M. Co., Brandon.	3 "	"	"	"	Oat Chop
"	2 "	48773	" " " "	3 "	"	"	"	Barley Chop
"	2 "	48774	G. McCulloch & Sons, Souris.	3 "	"	"	"	Oat Chop
"	4 "	48775	The Ogilvie F. Mills Co., Winnipeg.	3 "	"	"	"	"
"	4 "	48776	The Ogilvie F. M. Co., Winnipeg.	3 "	"	"	"	Barley Chop
"	4 "	48777	West Canada F. Mills Co., St. Boniface.	3 "	"	"	"	Oat Chop
"	4 "	48778	" " " "	3 "	"	"	"	Barley Chop

BRAN, SHORTS, CHOP FEED.

Claims.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		
A. C. LARIVIERE, INSPECTOR.									
p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
			14.83	4.88	9.7	32 Wild Oats.	Stink Weed.	48751	Genuine as to food value.
			16.67	4.78	8.5			48752	Genuine.
			16.44	5.12	9.3			48753	"
			15.35	4.44	8.6	23 Campions.		48754	"
			14.83	5.20	8.6			48755	"
			15.35	5.04	8.7			48756	"
			16.93	5.06	7.8			48757	"
			17.41	5.40	3.1			48761	"
			17.02	4.54	5.7	18 Wild Oats.	Campions.	48762	"
			17.72	5.54	5.6	Ball Mustard.		48763	"
			18.07	5.12	4.3			48764	"
			16.44	5.08	6.6			48765	"
			17.41	4.52	5.1			48766	"
			16.73	4.78	4.6			48767	"
			11.16	2.64	4.4	5 Wild Oats		48771	"
			13.15	4.86	7.9	544 Wild Oats.	Stink Weed.	48772	" as to food value very high in weed seeds.
			13.30	2.48	4.7	Stickseed.			
			14.28	4.60	12.3	Ball Mustard.			
			10.25	5.12	4.8	13 Wild Oats.	Cow Cackle.	48773	Genuine.
								48774	"
								48775	"
			11.80	2.24	4.6	1,104 Wild oats.	Stickseed.	48776	Genuine as to food value.
						Campions.	Stink weed.		Very high in weed seeds.
			10.60	3.46	8.0			48777	Genuine.
			12.06	2.54	5.8	48 Campions.	False flax.	48778	" as to food value.
						Ball mustard.			

Date of Collection.	Nature of Sample.	Name of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher, as given by the Vendor.		Inspector's Report. (Is not an expression of opinion.)
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF NELSON—								
1912.								
Sept.	3 Shorts	49675	Taylor M. & E. Co., Nelson, B.C.	3 lbs	10	Macleod Milling Co., Macleod.		
"	3 " "	49676	" " " "	3 "	"	Taylor M. & Co., Lethbridge.		
"	3 Bran	49677	" " " "	3 "	"	" " " "		
"	3 Chop Feed	49678	" " " "	3 "	"	" " " "		Chopped Oats.
"	3 " "	49679	Brackman Ker M. Co., Nelson, B.C.	3 "	"	Brackman Ker M. Co., Strathcona, Alta.		" National."
"	3 " "	49680	" " " "	3 "	"	" " " "		Chicken.
"	3 " "	49681	" " " "	3 "	5	" " " "		Dairy.
"	3 Bran	49682	" " " "	3 "	10	Ellison Mill & E. Co., Lethbridge.		
"	3 " "	49683	" " " "	3 "	"	Robin Hood Mills, Calgary.		
"	6 " "	49688	Smith & Welsh, Merritt, B.C.	3 "	"	Vane, Mill & G. Co., Vancouver		
"	6 Shorts	49689	" " " "	3 "	"	" " " "		
"	6 Chop Feed	49700	" " " "	3 "	"	Calgary M. Co., Calgary.		Wheat and Barley.
"	9 Bran	49729	Brown Bros., Revelstoke, B.C.	3 "	"	Ogilvie M. Co., Winnipeg.		
"	9 Shorts	49730	" " " "	3 "	"	" " " "		
"	10 Bran	49739	C. B. Hume & Co., Revelstoke, B.C.	3 "	"	Robin Hood F. M. Co., Calgary.		
"	19 Shorts	49749	" " " "	3 "	"	" " " "		
"	23 Bran	49749	C. A. Warren, Golden, B.C.	3 "	"	Brackman Ker M. Co., Calgary.		
"	23 Shorts	49750	" " " "	3 "	"	" " " "		
"	23 Bran	49757	H. G. Parson, Ltd., Golden, B.C.	3 "	"	Robin Hood M. Co., Moosejaw.		
"	23 Shorts (Middle)	49758	H. J. Parson, Ltd., Golden, B.C.	3 "	"	" " " "		
"	23 Bran	49763	C. R. Lumber Co., Golden, B.C.	3 "	"	Alberta Pacific E. Co., Calgary.		
"	23 Shorts	49764	C. R. Lumber Co., Golden, B.C.	3 "	"	Alberta Pacific E. Co., Calgary.		
"	25 Bran	49773	C. B. Hume & Co., Arrowhead, B.C.	3 "	"	Robin Hood Mills, Moosejaw.		
"	25 Shorts	49774	C. B. Hume & Co., Arrowhead, B.C.	3 "	"	Robin Hood Mills, Moosejaw.		
"	25 " "	49775	Reid & Young, Arrowhead, B.C.	3 "	15	Ellison M. & E. Co., Lethbridge.		

BRAN, SHORTS, CHOP FEED.

Claims.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		

THOS. PARKER, INSPECTOR.

p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
			15.09	4.06	3.4			49675	Genuine.
			13.78	2.04	1.4			49676	Low in proteids and fat. Adulterated.
			16.10	4.70	8.3			49677	Genuine.
			9.64	5.44	9.7			49678	"
			9.41	2.52	13.7			49679	High in fibre. Adulterated.
			17.76	6.26	5.3	64 Ball mustard.		49680	Genuine as to food value.
			9.55	4.32	18.2	3 "		49681	High in fibre. Compensating fat—2.32.
			16.40	4.48	8.7	48 Hare's Ear mustard. Wild oats.		49682	Genuine as to food value.
			15.61	5.00	9.4			49683	Genuine.
			14.88	5.06	8.9			49688	"
			15.97	4.68	5.4			49689	"
			12.95	2.38	3.5			49700	"
			13.78	4.24	10.3			49729	"
			16.54	3.88	3.7			49730	"
			13.74	4.02	8.4			49739	"
			16.27	4.46	4.1			49740	"
			17.46	4.78	7.6			49749	"
			15.92	4.04	5.8			49750	"
			15.18	4.56	8.4			49757	"
			18.07	5.38	3.4			49758	Genuine.
			15.92	4.84	7.9			49765	"
			15.97	5.08	3.6			49764	"
			13.87	4.26	8.4			49773	"
			16.06	4.52	2.8	16 False Flax. Stinkweed.		49774	"
			16.67	3.56	5.7			49775	"

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF VANCOUVER—

1912.								
Oct.	1 Bran	38419	F. T. Vernon, Van- couver, B.C.	3 lbs	20	Robin Hood Mills, Moose- jaw, Sask.		
"	1	38450	Brackman Ker M. 3 Co., New West minster, B.C.	"	Nil	Sask. F. Mills, Moosejaw, Sask.		
"	2	38451	McLellan Mc-3 Carter, Ltd., Van- couver, B.C.	"	"	Vancouver Mill- ing Co., Van- couver.		
"	2	38452	Vancouver Milling 3 Co., Vancouver, B.C.	"	"	Vendors		
"	2	38453	Henry Holtz & 3 Co., Van- couver, B.C.	"	"	Vancouver Mill- ing Co., Van- couver.		
"	3	38454	Brown & How-3 Vancouver, B.C.	"	"	Robin Hood F. M. Moosejaw, Sask.		
"	3	38455	Donaldson & Mac-3 Donald, Van- couver, B.C.	"	"	Vancouver Mill- ing Co., Van- couver.		
"	3	38456	Hall & Willis, 3 Vancouver, B.C.	"	"	Ellison M. Co., Lethbridge, Alta.		
"	9	38457	Brackman Ker M. 3 Co., Vancouver, B.C.	"	"	Ellison M. Co., Lethbridge, Alta.		
"	10	38458	Gibson & Brown, 3 Vancouver, B.C.	"	"	Robin Hood M. Co., Moose- jaw, Sask.		
"	1 Shorts	38459	F. T. Vernon, Van- couver, B.C.	3	"	Robin Hood M. Co., Moose- jaw, Sask.		
"	1	38460	Brackman Ker M. 3 Co., Vancouver, B.C.	"	"	Sask. Milling Co., Moosejaw Sask.		
"	2	38461	McLellan & Mc-3 Carter Co., Van- couver, B.C.	"	"	Vancouver Mill- ing Co., Van- couver.		
"	2	38462	Vancouver Milling 3 Co., Vancouver, B.C.	"	"	Vendors		
"	2	38463	Henry Holtz & 3 Co., Vancouver, B.C.	"	"	Vancouver Mill- ing Co., Van- couver.		
"	2	38464	Donaldson & Mc 3 Donald, Van- couver, B.C.	"	"	Vancouver Mill- ing Co., Van- couver.		
"	4	38465	Hall & Willis, Van- couver, B.C.	3	Nil	Ellison Milling Co., Lethbridge Alta.		
"	4	38466	Brackman Ker M. 3 Co., Vancouver, B.C.	"	"	"		

BRAN, SHORTS, CHOP FEED.

Chem.			Results of Analysis.			Vital Wood Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		

J. F. POWER, INSPECTOR.

p.c.	p.c.	p.c.	p.c.	p.c.	p.c.				
			15.05	4.84	9.3	11 Well Mustard. Hares-	38449	Genuine	
						Ear Mustard.			
			14.92	4.90	8.9		38450	"	
			14.92	5.16	9.3	128 Stinkweed Wild Must-	38451	Genuine as to food value.	
						ard.			
			14.57	5.02	9.5		38452	Genuine.	
			14.74	4.98	8.8		38453	"	
			14.61	4.90	8.7	32 Stinkweed, Hares Ear	38454	Genuine as to food value.	
						Mustard.			
			15.27	4.52	8.2		38455	Genuine.	
			17.46	4.00	8.6		38456	"	
			15.44	4.64	9.1		38457	"	
			15.84	4.78	7.9		38458	"	
			13.34	4.32	6.4		38459	Low in proteids, 1.66- Adulterated.	
			15.01	4.96	8.0		38460	Genuine.	
			15.48	4.72	5.6		38461	"	
			15.75	5.06	5.0		38462	"	
			15.62	4.64	5.3		38463	"	
			13.91	4.16	5.7		38464	Low in proteids, 1.19- Adulterated.	
			17.23	3.96	3.9		38465	Genuine.	
			16.93	3.38	5.4		38466	"	

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.	Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer. Furnisher.	

DISTRICT OF VANCOUVER—

1912.							
Oct.	1 Shorts	38467	Gilson & Brown, 3 Bds. Vancouver, B.C.	Nil.		Robin Hood M. Co., Moosejaw Sask.	
"	1 "	38468	A. E. Burnett & 3 " Co., Vancouver, B.C.	"		"	
"	4 Chop Feed.	38469	F. T. Vernon, Van- 3 " couver, B.C.	"		Vendor	
"	4 "	38470	Brackman Ker M. 3 " Co., New West minister, B.C.	"		Vendors	
"	2 "	38471	McLellan & Mc 3 " Carter Co., Van- couver, B.C.	"		"	
"	2 "	38472	Vancouver Milling 3 " Co., Vancouver, B.C.	"		"	
"	2 "	38473	Brown & Howey, 3 " Vancouver, B.C.	"		"	
"	3 "	38474	Donaldson & Mac 3 " Donald, Vancou- ver, B.C.	"		A. E. Burnett & Co., Vancou- ver.	
"	4 "	38475	Hall & Willis, Van 3 " couver, B.C.	"		"	
"	9 "	38476	Brackman Ker M. 3 " Co., New West minister, B.C.	"		Vendors	
"	10 "	38477	Gilson & Brown, 3 " Vancouver, B.C.	"		Brown & Howey, Vancouver.	
"	10 "	38478	A. E. Burnett & 3 " Co., Vancouver, B.C.	"		Vancouver M. Co., Vancouver.	

DISTRICT OF VICTORIA—

Oct.	21 Bran.	49251	Brackman Ker Mil- 3 lbs. ling Co., Ltd., Victoria, B.C.	3	Robin Hood M. Ltd., Calgary, Alta.	Crude Protein 16.25, Crude Fat 5.20, Crude Fibre 9.80
"	21 "	49252	" " 3 "	4	Ogilvies F. M., Ltd., Winnipeg	
"	21 "	49253	" " 3 "	5	Ellison M. & E. Co., Ltd., Leth- bridge	
"	21 Shorts	49254	" " "	5	"	
"	24 "	49255	" " 3 "	5	Robin Hood M. Co., Ltd., Cal- gary, Alta.	
"	24 "	49256	" " 3 "	5	Ogilvies F. M., Co., Ltd., Win- nipeg.	"Nestor's" Feed Flour.

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	

DISTRICT OF VICTORIA—

1912.								
Oct.	24 Shorts	49257	Brackman Ker 3 lbs. Milling Co., Ltd., Victoria, B.C.	3	4	Robin Hood M. Ltd., Calgary, Alta.		
"	24 Chop Feed	49258	"	3	4	Vendors		"B & K Corn Chop" Protein 9.0% Fat 4.0% Fibre 8.0% Reg. No. 136.
"	24 "	49259	"	3	4	Vendors		B. & K. Oat Feed. Protein 7.0% Fat 3.0% Fibre 15.0% Reg. No. 137.
"	24 "	49260	"	"	4	"		Jersey Dairy Feed. Protein 18.0% Fat 5.0% Fibre 10.0% Reg. No. 138.
"	24 "	49261	"	"	4	"		B. & K. Chicken Chop. Reg. No. 154.
"	24 "	49262	"	"	4	"		Soy Bean Oil Feed. Protein 45.0% Fat 8.0% Crude Protein 16.25% Crude Fat 5.20% Crude Fibre 9.80% Crude Protein 14.5% Crude Fat 4.0% Crude Fibre 10.0%.
"	24 Bran	49263	Scott & Peden, Victoria, B.C.	"	5	Robin Hood Mills, Ltd., Calgary, Alta.		
"	24 "	49264	"	"	5	Lake of the Woods M. Co., Ltd., Portage La Prairie.		
"	24 Shorts	49265	"	"	5	"		
"	24 "	49266	"	"	5	Ellison M. & E. Co., Ltd., Lethbridge, Alta.		
"	24 Chop Feed	49267	"	"	10	Vanc. M. & Grain Co., Ltd., Vancouver, B.C.		
"	25 Bran	49268	J. B. Kelly, Sidney, B.C.	"	5	Ogilvie F. M. Co., Ltd., Winnipeg		
"	25 Shorts	49269	"	"	5	Med. Hat M. Co., Ltd., Med. Hat, Sask.		

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		

Continued.

p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
.....	.....	.....	15.40	3.62	2.5	.....	.....	49257	Genuine
9.00	4.00	8.00	10.18	3.52	6.8	21	Ball mustard. Wild mustard.	49258	"
7.00	3.00	15.00	12.31	3.62	17.9	.....	.....	49259	Meets guarantee.
18.00	5.00	10.00	15.44	4.40	11.1	.....	.....	49260	Below guarantee in proteids. Adulterated.
15.00	5.00	5.00	14.44	4.24	4.9	.....	.....	49261	Meets guarantee.
45.00	8.00	.....	45.50	8.14	4.8	.....	.....	49262	"
16.25	5.20	9.80	15.05	4.84	8.3	16	Wild oats, wild mustard.	49263	"
14.50	4.00	10.00	15.27	4.78	9.2	24	Stinkweed..	49264	"
.....	.....	.....	16.84	5.30	5.8	32	Stinkweed, ball mustard.	49265	Genuine as to food value.
.....	.....	.....	16.27	4.14	2.8	21	Wild oats.....	49266	Genuine.
.....	.....	.....	11.46	3.46	8.0	.....	.....	49267	"
.....	.....	.....	14.83	4.74	10.4	.....	.....	49268	"
.....	.....	.....	16.63	5.30	4.1	.....	.....	49269	"

BULLETIN No. 254—

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by the Vendor.		Inspector's Report. (Is not an expression of opinion).
				Quantity.	Cents.	Manufacturer.	Furnisher.	
DISTRICT OF VICTORIA—								
1912.								
Oct. 25	Shorts ...	49270	J. B. Kelley, Sidney, B.C.	3 lbs	5	Vest. Canada F. Mills, Ltd., St. Boniface, Man.		Protein 18.38% —Fat 6.02%— Fibre 7.99%
" 25	Chop Feed.	49271	" "	"	10	Brackman Ker M. Co., Ltd., Victoria, B.C.		Protein 45.0% —Fat 8.0%
" 26	Bran	49272	Sylvester Feed Co., Victoria, B.C.	"	5	Robin Hood Mills, Ltd., Calgary, Alta.		
" 26	Shorts	49273	" "	"	5	" "		
" 30	Bran	49274	Vanc. Milling & Grain Co., Ltd., Kingston and Victoria, B.C.	"	5	Vanc. M. and Grain Co., Ltd., Vanc., B.C.		
" 30	Shorts ...	49275	" "	"	5	" "		
" 30	Chop Feed.	49276	" "	"	5	" "		
" 30	"	49277	" "	"	5	" "		"Milk Feed".
" 30	"	49278	" "	"	10	Pacific Oil Mills, Seattle, Wash.		"Proteig Soy Beanc."
" 31	Bran ...	49279	Siron Leiser & Co., Ltd., Yates St., Victoria, B.C.	"	Nil.	Vanc. M. and Grain Co., Ltd., Vanc., B.C.		
" 31	"	49280	" "	"	"	Ogilvie F. Mills, Ltd., Winnipeg		

BRAN, SHORTS, CHOP FEED.

Claim.			Results of Analysis.			Vital Weed Seeds.		No. of Sample.	Remarks and Opinion of the Chief Analyst.
Proteids.	Fat.	Fibre.	Proteids.	Fat Direct.	Fibre.	No. per lb.	Chiefly.		

Concluded.

p. c.	p. c.	p. c.	p. c.	p. c.	p. c.				
18.38	6.02	7.99	18.38	5.60	4.8	.....	.....	49270	Meets guarantee.
45.00	8.00	.....	43.00	8.44	4.3	.....	.....	49271	Low in proteids 2.0. Is a special feed; technically adulterated.
.....			14.96	4.62	8.6	112	Wild Oats, Hare's Ear Mustard, Wild Mustard.	49272	Genuine as to food value.
.....			17.5	5.40	5.0	.....	.....	49273	Genuine.
.....			16.27	5.20	8.8	15	Stinkweed, Wild Mustard.	49274	"
.....			13.61	4.38	6.4	.....	.....	49275	Low in proteids. Adulterated.
.....			11.64	3.00	9.1	2	Ball Mustard	49276	Genuine.
.....			11.81	3.22	12.0	.....	.....	49277	"
.....			42.76	8.52	4.6	.....	.....	49278	Should be sold with guarantee. Doubtful.
.....			15.62	4.60	7.6	.....	.....	49279	Genuine.
.....			14.83	4.62	9.4	256	Hare's Ear Mustard...	49280	" as to food value.

