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SEPTEMBER, 1904.

New York Agricultural Experiment Station.

GENEVA, N. Y.

INSPECTION OF FEEDING STUFFS.

W. H. JORDAN AND F. D. FULLER.

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BULLETIN No. 255.

INSPECTION OF FEEDING STUFFS.

W. H. JORDAN AND F. D. FULLER.

SUMMARY.

(1) Prior to May 3d one hundred and four manufacturers licensed one hundred and fifty-four brands of feeding stuffs for the year 1904.

(2) Two hundred and sixty-three samples of feeding stuffs, officially collected from Jan. 6, 1904, to May 6, 1904, have been analyzed.

INTRODUCTION.

Herewith is presented the work of the Station in the examination of concentrated feeding stuffs found in the markets of New York State, in 1904, in compliance with the provisions of the Agricultural Law, Chap. 338, Article 9.

The law under which the samples included in this bulletin were taken so defined the term "concentrated commercial feeding stuffs" that it practically covered all feeds *excepting the following*:—Hays and straws, and the *entire* grains of wheat, rye, barley, oats, maize (corn), buckwheat and broom corn, either whole or ground into meal; also bran and middlings from wheat, rye and buckwheat when sold as such unmixed with other materials. The above feeds may still be sold legally without the payment of a license fee.

AMENDMENT OF THE LAW.

The legislature of 1904 passed an act amending the law controlling the sale and analysis of concentrated commercial feeding stuffs, which was approved by the Governor on May 3d, 1904. This amendment transfers the administration of the feeding stuffs law to the Commissioner of Agriculture, the Experiment Station still being required to analyze the samples of feeding stuffs collected by said Commissioner. Certain materials were added to the specified list of feeds which are defined as "concentrated commercial feeding stuffs," as follows: bean meals, peanut meals, dried distillers' grains, dried beef refuse, meat and bone meals, clover meals, condimental stock and poultry foods, patented and proprietary, or trade-marked, stock and poultry foods.

The condimental stock and poultry foods were added to the list of feeding stuffs requiring legal supervision because it was felt that the interests of the agricultural public demand this. If these mixtures were offered to the public merely as medicines or condiments and no other claims were made for them they would not properly be classed among feeding stuffs. The fact is, how-

ever, in a large number of cases extraordinary and even startling claims are made as to the nutritive (food) value of these substances, and it is but just that these claims should be subject to the same examination given to other materials offered to the public as food for cattle. It is time for the public to be more fully defended, if possible, against what is now one of the most serious impositions practiced upon it.

The law has been further modified by repealing Section 127 which required that any person violating the provisions of the law be given thirty days after one notice in which to comply with said provisions. The actual effect of this requirement, under the interpretation placed upon Section 127 by the Attorney General, was to prevent prosecutions of offenders, a fact which caused the attitude of the Director of the Station to be misinterpreted by those ignorant of the situation.

FEEDING STUFFS LICENSED IN 1904.

Previous to May 3d, 1904, one hundred and four manufacturers or jobbers registered the required guarantees and paid the license fee on one hundred and fifty-four brands of feeding stuffs to be placed on sale in New York State in 1904.

The brands named in the following table (1), may be handled legally during the current year :

TABLE I.—MANUFACTURERS AND JOBBERS WHO, PRIOR TO MAY 3d, 1904, COMPLIED WITH THE NEW YORK FEED-
ING STUFFS LAW FOR THE YEAR 1904, WITH A LIST OF BRANDS SO GUARANTEED AND THE GUARANTEES.

License number.	Manufacturer or jobber.		Name of feed.	Guarantees.	
	Name.	Address.		Protein.	Fat.
421	Acme Milling Co.,	Olean,	Acme feed,	<i>Per ct.</i>	<i>Per ct.</i>
464	Adikes, J. & T.,	Jamaica,	Ground feed,	8.5	4.5
411	American Cereal Co., The,	Chicago, Ill.,	American poultry food,	8.75	3.0
	"	"	Quaker dairy feed,	14.0	4.5
	"	"	Corn, oats and barley feed,	14.0	3.5
	"	"	Schumacher's stock food,	13.0	5.0
	"	"	"C" feed,	13.0	5.0
	"	"	Victor corn and oat feed,	9.0	4.0
	"	"	Vim oat feed,	9.0	4.0
472	American Cotton Oil Co., The,	New York,	Prime cottonseed meal,	7.5	2.75
394	American Hominy Co.,	Indianapolis, Ind.,	Maizeline,	43.0	9.0
	"	"	Hominy feed,	14.81	8.76
438	American Linseed Co.,	New York,	Oil meal, O. P.,	10.24	7.72
420	American Maltng Co.,	"	Malt sprouts,	32-36	5-7
453	American Milling Co.,	Peoria, Ill.,	Sucrene dairy feed,	25.0	2.0
	"	"	" horse feed,	16.5	3.5
	"	"	Blood meal,	13.5	5.0
432	Armour Fertilizer Works, The,	Chicago, Ill.,	Meat meal,	87.0	0.2
	"	"	Meat and bone,	50.0	10.0
	"	"	Poultry bone,	45.0	8.0
	"	"	G.W. Bagley & Son's mixed feed,	25.0	5.0
433	Bagley, G. A.,	Peekskill,	No. 100 fancy white corn bran,	16.0	6.0
488	Baringer, M. F.,	Philadelphia, Pa.,	Malt sprouts,	11.0	7.22
413	Bartholomay Brewery Co.,	Rochester,	Blatchford's calf meal,	30.74	0.32
451	Barwell, J. W.,	Waukegan, Ill.,	" sugar and flaxseed,	25.0	5.0
	"	"	Berg's 3 medal poultry meat,	28.25	11.25
460	Berg Co., The,	Philadelphia, Pa.,	Biles' Fonrex (XXXX) distil- lers' dried grains,	50-55	13-15
401	Biles, J. W., Co., The,	Cincinnati, O.,		33.0	11.0

TABLE I.—Continued.

License number.	Manufacturer or jobber.		Name of feed.	Guarantees.	
	Name.	Address.		Protein.	Fat.
401	Biles, J. W., Co., The,	Cincinnati, O.,	Biles' ready ration, union grains,	<i>Per ct.</i> 24.0	<i>Per ct.</i> 7.0
449	" " " "	" "	Biles' Rye (R) distillers' dried grains,	21.0	5.0
444	Blomo Manufacturing Co.,	New York,	Blomo feed,	15.0	1.19
457	Bowker Fertilizer Co.,	" "	Bowker's beef scraps,	30.0	20.0
469	" " " "	" "	" " animal meal,	30.0	5.0
467	Brodé, F. W., & Co.,	Memphis, Tenn.,	" Owl " cottonseed meal,	43.0	9.0
467	Brooks Elevator Co.,	Minneapolis, Minn.,	Royal mixed feed,	16.61	5.48
443	Buffalo Cereal Co.,	Buffalo,	Creamery feed,	20.0	5.0
	" " " "	" "	Poultry feed,	17.0	5.0
	" " " "	" "	Dairy feed,	14.0	4.0
	" " " "	" "	Horse feed,	12.0	4.5
	" " " "	" "	Hominy feed,	10.5	8.5
	" " " "	" "	3 X stock feed,	9.0	4.5
459	" " " "	" "	Howard's hominy meal,	10.5	8.5
395	Cassel, F. P.,	Lansdale, Pa.,	F. P. C. Chick Manna,	14.01	4.75
416	Chapin & Co.,	Buffalo,	Green Diamond cot'seed meal,	43.0	9.0
446	Clark & Mercer,	Baldwinsville,	Meal and shorts,	12.05	4.15
492	Clements, A. L., & Co.,	New York,	C. C. C. cow oil meal,	32-38	5-8
408	Commercial Milling Co.,	Detroit, Mich.,	Dandy corn and oat chop feed,	10.81	6.02
499	Continental Cereal Co.,	Peoria, Ill.,	Continental gluten feed,	35.0	12.5
415	Coonley, G. W.,	Albany,	Capitol C. & O. feed,	9.04	3.75
397	Crow & Williams,	Ossining,	C. & W. mixed feed,	10.0	4.0
435	Curtiss Co., C. G., The,	Buffalo,	Malt sprouts,	25.0	1.0
485	Cyphers Incubator Co.,	" "	Cyphers laying food,	15.26	5.5
498	" " " "	" "	" " forcing food,	18.17	7.11

389	Darling & Co., "	Chicago, Ill., "	Beef scraps, " meal, Corn Protegran, "O. O." feed, Provender,	55-65 10-15 45-55 33.0 9.19 9.4	10-15 10-15 8.5 6.85 3-85
465	Dewey Bros. Co., The,	Blanchester, O.,	Chop feed,	8.2	4.4
473	Diamond Elevator & Milling Co.,	Minneapolis, Minn.,	Empire feed,	7.63	2.97
494	Dixon & Warren,	Port Byron,	C. O. & W. feed,	11.5	3.5
462	Ellicottville Milling Co.,	Ellicottville,	Ground beef and bone scraps,	40-45	18-20
402	Empire Mills,	Olean,	Green oval linseed meal,	32-36	5-7
412	Everett & Treadwell,	Kingston,	Flint gluten feed,	28.5	3.0
392	Finn, G. M.,	Syracuse,	Apex stock food,	16.0	4.7
409	Flint Mill Co.,	Buffalo,	Green Diamond hominy feed,	11.0	8-9
	" " "	"			
	" " "	"			
441	Glucose Sugar Refining Co., The,	Chicago, Ill.,	Chicago gluten meal,	37.0	3.0
	" " "	"	Buffalo gluten feed,	27.0	3.0
	" " "	"	Germ oil meal,	22.0	10.0
	" " "	"	Fancy corn bran,	14.0	3.0
491	Grandin, D. H.,	Janestown,	Chautauqua chop feed,	8.09	4 16
393	Great Western Cereal Co., The,	Chicago, Ill.,	Excelsior C. & O. feed,	9.0	4.2
	" " "	"	Boss C. & O. feed,	9.0	4.0
	" " "	"	Friends' oat feed,	8.0	3.0
	" " "	"	Royal oat feed,	7.6	2.8
495	" " "	"	Derby hominy feed,	11.0	8.0
463	Harding, G. L.,	Binghamton,	Meat meal,	55.0	10.0
	" "	"	Beef scraps,	45.0	25.0
430	Hauenstein & Co.,	Buffalo,	Egg builder ration,	20.0	5.0
471	Hayt, S. T.,	Corning,	Linseed meal, O. P.,	35.65	7.62
484	H-O Company, The,	Buffalo,	Corn and oat feed,	10.43	4.0
	" " "	"	The H-O Co.'s dairy feed,	18.0	4.5
	" " "	"	" " poultry feed,	17.0	5.5
	" " "	"	" " horse feed,	12.0	4.5
	" " "	"	Edw. Elsworth & Co.'s De-Fi corn and oat feed,	8.03	3.0

TABLE I.—Continued.

License number.	Manufacturer or jobber.		Name of feed.	Guarantees.	
	Name.	Address.		Protein.	Fat.
474	Hodgman Milling Co.,	Painted Post,	Corn and oat chop feed,	<i>Per ct.</i> 9.69	<i>Per ct.</i> 3.88
470	Hotton, Nicholas,	Portville,	Common feed,	8.38	4.85
482	Hubinger, J. C., Bros. Co.,	Keokuk, Ia.	K. K. K. gluten feed,	27.0	3.0
404	Hunter Bros. Milling Co., The,	St. Louis, Mo.,	Hominy feed,	11.02	7.7
486	" " " "	" " "	Cottonseed meal,	43.0	9.0
476	Husted Milling and Elevator Co.,	Buffalo,	Linseed oil meal, O. P.,	34.0	6.5
399	Hygienic Food Co.,	" "	Monarch chop,	8.09	4.16
407			Hygienic stock food,	11.56	3.62
437	Illinois Sugar Refining Co.,	Chicago, Ill.,	Cream gluten meal,	37.0	3.0
"	" " " "	" "	Pekin gluten feed,	27.0	3.0
"	" " " "	" "	Geneva corn bran,	11.0	3.0
483	Iowa Milling Co.,	Davenport, Ia.,	Hawkeye gluten feed,	25.18	5.92
387	Kam Malting Co.,	Buffalo,	Malt sprouts,	23.81	1.34
427	Kellogg, Spencer,	" "	" S. K." oil meal, O. P.,	35.94	5.04
391	Kelloggs & Miller,	Amsterdam,	Pure oil meal, O. P.,	36.7	7.83
450	Kidder, F. L., & Co.,	Paris, Ill.,	Kidder's feed,	11.0	8.05
458	Knickerbocker Milling & Grain Co.,	Albany,	Champion feed,	9.92	4.01
461	Krause, C. A., Grain Co.,	Milwaukee, Wis.,	Blue Ribbon corn dist'r's grains,	33.0	11.0
497	Lackawanna Mill & Elevator Co.,	Buffalo,	Lackawanna special horse and cattle feed,	10.93	3.48
456	Lapham & Parks,	Glens Falls,	Common feed,	7.5	3.5
493	Larowe Milling Co., The,	New York,	Dried molasses beet pulp,	9.53	0.42
"	" " " "	" "	Dried beet pulp,	8.56	0.59
478	Lawrence, N., Co., The,	Dobbs Ferry,	Dandy dairy feed,	8.0	2.5

398	Mann Bros. Co., The,	Buffalo,	Linseed oil meal,	35.15	6.05
424	Marcus, Julius,	New York,	Manhattan gluten feed,	32-35	10-12
425	" "	" "	Merchants' dairy feed,	32-35	10.8-12.0
426	" "	" "	Ajax flakes,	32-35	10.8-12.0
440	McCoy & Best,	Peekskill,	Evap. bone and meat meal,	41.4	19.75
396	Metzger Seed & Oil Co.,	Toledo, O.,	Oil meal, O. P.,	30-36	5-7
423	Meurer, Deutsch & Sickert Co.,	Milwaukee, Wis.,	Climax grains,	34.0	11.0
496	Michigan Starch Co., The,	New York,	Michigan gluten feed,	27.0	4.0
414	Midland Linseed Co.,	Minneapolis, Minn.,	Ground linseed cake, O. P.,	32.5-37.5	5.5-8.5
436	National Starch Co.,	Chicago, Ill.,	Queen gluten feed,	26.0	3.0
418	Nester, S. K.,	Geneva,	Malt sprouts,	25.0	2.0
428	Niagara Mill & Elevator Co.,	Buffalo,	Niagara C. & O. feed,	8.2	3.37
481	Noblesville Milling Co.,	Noblesville, Ind.,	N. M. Co.'s hominy chop,	{ 10.25	7.7-8.0
403	N. Y. Glucose Co.,	New York,	Globe gluten feed,	{ 11.0	3.0
390	Oliver, Geo.,	Olean,	Chop feed,	27.0	4.86
388	Oliver Refining Co.,	Portsmouth, Va.,	Cottonseed meal,	8.58	9.0
	" "	" "	" feed,	43.0	9.0
405	Oneonta Milling Co.,	Albany,	Monarch horse feed,	10.0	3.0
	" "	" "	Corn and oat provender,	13.0	5.75
429	" "	" "	Arrow corn and oat feed,	8.75	3.5
				9.0	3.75
468	Page, J. D., & Co., The,	Syracuse,	Empire State dairy feed,	36.22	11.76
455	Patent Cereals Co., The,	Geneva,	Hominy feed,	11.0	8.0
490	Payne, W. H., & Son,	New York,	Hominy chop,	11.49	8.0
480	Pettit, Hugh, & Co.,	Memphis, Tenn.,	Horseshoe cottonseed meal,	43-47	9-11
466	Pfeffer Milling Co.,	Lebanon, Ill.,	Pfeffer Mill. Co.'s hominy feed,	10.0	8.0
386	Piel Bros. Starch Co.,	Indianapolis, Ind.,	Piel Bros.' gluten feed,	27.6	2.6
447	Pratt Cereal Oil Co.,	Decatur, Ill.,	Germanine,	12.9	1.29
487	Puritan Poultry Farms & Mfg. Co.,	Stamford, Conn.,	Puritan chick food,	12.5	7.5
489	Rodebaugh, J. H.,	Buffalo,	Stone Mills mixed feed,	12.59	3.19
431	Romaine, DeWitt,	New York,	Boiled beef and bone,	45.0	15.0

TABLE I.—*Concluded.*

License number.	Manufacturer or jobber.		Name of feed.	Guarantees.	
	Name.	Address.		Protein.	Fat.
475	Smith, A. V.,	Marcellus Falls,	Barley meal,	<i>Per ct.</i> 14.8	<i>Per ct.</i> 3.4
479	Stanton, H. M.,	Schenectady,	Ground scraps,	50.0	9.0
445	Staples, A. S.,	Rondout,	Arcade mixed feed,	10.42	5.86
439	Streeter, L. L., & Sons,	Johnstown,	Common feed,	8.78	5.23
417	Suffern, Hunt & Co.,	Decatur, Ill.,	Hominy feed,	11.02	7.7
442	Swift's Lowell Fertilizer Co.,	Boston, Mass.,	Swift's Lowell bone & meat meal,	40-50	8-15
400	Toledo Elevator Co., The,	Toledo, O.,	Regular hominy,	12.6	8.57
	" "	" "	Star feed,	11.4	7.31
434	Union Linseed Co.,	Troy,	"Cow" oil meal,	22.09	6.32
410	U. S. Frumentum Co.,	Detroit, Mich.,	Frumentum hominy feed,	10.31	7.98
452	Victor Mills,	Springville,	Golden chop,	9.17	5.84
448	Wagar, C. W., & Co.,	Philadelphia, Pa.,	Cedar Rapids gluten feed,	26.57	3.33
	" "	" "	Imperial dairy feed,	8.74	2.81
454	Wallace, L. R.,	Middletown,	"Mapes" balanced ration for poultry,	14.0	4.0
406	Waller, A., & Co.,	Henderson, Ky.,	Blue grass mixed feed,	12.59	3.19
419	Warner Sugar Refining Co.,	Chicago, Ill.,	Warner's gluten feed,	28.0	3.5
477	Weidler, S. W., Co., The,	Cincinnati, O.,	Weidler's germ food,	14.54	6.45

The list of licensed brands may be classified as follows :

Proprietary or mixed feed,	70 brands.	Corn bran,	3 brands.
Meat and bone meal.	16 "	Molasses feed,	3 "
Hominy feed or chop,	13 "	Gluten meal,	2 "
Gluten feed,	12 "	Sugar beet refuse,	2 "
Linseed oil meal,	11 "	Cottonseed feed,	1 "
Distillers' grains,	9 "	Germ oil meal,	1 "
Cottonseed meal,	6 "		
Malt sprouts,	5 "	Total,	154 brands.

ANALYSES OF SAMPLES COLLECTED BY INSPECTOR.

The following table (II) shows the partial analyses of samples of feeding stuffs collected by an inspector in different parts of the State from Jan. 6, to May 6, 1904. In the feeding stuffs law, special emphasis is laid upon two important features—*first*, that the composition of certain feeds shall be correctly guaranteed, as to their content of protein and fat ; *second*, that adulteration of any feed is a violation of the law unless the true composition or adulteration is plainly indicated upon the package containing the same or in which it is offered for sale.

Therefore in the following tabulation, the percentage of protein and fat guaranteed are given for comparison with the amount actually present, and in most of the samples the percentage of crude fiber was determined, which served in estimating to what extent some of the materials were adulterated. The table also includes the retail price per ton.

Owing to an excess of moisture in some of the samples collected, which were evidently kept under conditions favorable to the growth of mold, they deteriorated to such an extent that their analysis would represent the goods as being much inferior to what they were when they were sampled in the markets.

Therefore, eight samples of corn and oat products, four of beef scraps, three of meat meal, two of bran and middlings, and one sample each of corn meal, meal and shorts, molasses feed and stock food were not included in the inspection.

TABLE II.—ANALYSES OF FEEDING

Col- lec- tion No.	Name and address of manufacturer or jobber.	Sampled at
1179 1257	American Cotton Oil Co , New York, Biggs, R. W., & Co., Memphis, Tenn.,	Fort Edward, E. L. Potter, Buffalo, Husted Milling & Ele- vator Co.,
1095 1155 1213	Bridges, H. E., & Co., Memphis, Tenn., Brodé, F. W., & Co., Memphis, Tenn., Chapin & Co., St. Louis, Mo.,	New York, W. S. Travis, Troy, J. D. Westfall & Sons, Watertown, A. H. Herrick & Son.,
1237	Falls, J. G., & Co., Memphis, Tenn.,	Amsterdam, W. N. Carpenter Co.,
1328	Falls, J. G., & Co., Memphis, Tenn.,	Binghamton, G. Q. Moon & Co.,
1220 1102	Hayley & Hoskins, Memphis, Tenn., Humphreys, Godwin & Co., Memp , Tenn.,	Fulton, Gilbert & Nichols Co., Pleasantville, Washburne Sup- ply Co.,
1307 1232 1274	Humphreys, Godwin & Co., Memp., Tenn. Hunter Bros. Milling Co., St. Louis, Mo , " " " " " "	Oneonta, Oneonta Milling Co., Geneva, J. T. Cook, Jamestown, F. A. Smiley & Co.,
1258 1216 1226 1078 1204	Independent Cotton Oil Co., Memp., Tenn., Nat. Cottonseed Products Co., Memp., Tenn., Pettit, Hugh, & Co., Memphis, Tenn., Robinson, G. B., New York, Sledge & Wells Co., Memphis, Tenn.,	Buffalo, Buffalo Cereal Co., Oswego, H. M. Quigg, Syracuse, H. Frier, New York, Clark & Allen, Utica, Ogden & Clark,
1080 1312 1114 1275 1333 1341 1190 1230 1279 1127 1267 1103	American Linseed Co., New York, " " " " Chapin & Co., Buffalo, " " " " " " " " " Flint Mill Co., Milwaukee, Wis., " " " " " " " " Hauenstein & Co., Buffalo, " " " Hunter Bros. Milling Co., St. Louis, Mo.,	Jamaica, J. & T. Adikes, Oneonta, Morris Bros., Dobbs Ferry, Lawrence & Co., Jamestown, F. A. Smiley & Co., Owego, Truman & Jones, Spencer, M. D. Fisher & Sons, Malone, O. S. Lawrence, Rome, G. Oster & Sons, Salamanca, H. Neff, Ossining, J. Chadeayne & Sons, Brocton, V. Mathews, Pleasantville, Washburne Sup- ply Co ,
1243 1147 1207 1271 1100	Kellogg, Spencer, Buffalo, Kelloggs & Miller, Amsterdam, Mann Bros. Co., The, Buffalo, " " " Metzger Seed & Oil Co., Toledo, O.,	LeRoy, J. Maloney & Son, Albany, Barber & Bennett, Boonville, A. H. Barber & Son, Jamestown, D. H. Grandin, White Plains, E. G. Faile,

STUFFS COLLECTED BY INSPECTOR.

Collection No.	Name of feed.		Protein.		Fat.		Crude fiber found.	Price per ton.
			Found.	Guaranteed.	Found.	Guaranteed.		
			Per ct.	Per ct.	Per ct.	Per ct.		
OIL CAKE MEALS.								
Cottonseed meal.								
1179	Cottonseed meal, prime,		42.2	43.0	9.9	9.0		\$30.00
1257	* " "		21.8	41.0-46.0	5.0	7.0-9.0	22.7	25.50
1095	* " "		43.8	43.0	10.0	9.0-10.0		30.00
1155	" " Owl,		45.9	43.0	9.5	9.0		29.00
1213	" " Green diamond,		45.5	43.0	9.5	9.0		32.00
1237	* " " Southern beauty,		43.2	43.0	10.2	9.0		30.00
1328	* " " " "		39.8	43.0	11.4	9.0		29.00
1220	* " " prime,		40.3	43.0	10.0	9.0		27.00
1102	* " " Dixie,		44.1	43.0	9.0	9.0		30.00
1307	* " " " "		43.6	43.0	8.0	9.0		28.00
1232	" " " "		43.1	43.0	8.8	9.0		28.00
1274	" " prime,		38.7	43.0	6.9	9.0		28.00
1258	* " " " "		41.7	43.0	9.7	9.0		26.00
1216	* " " Indian, prime,		46.2	40.0-45.0	10.8	8.5-10.0		28.00
1226	" " Horseshoe,		41.2	43.0-47.0	10.2	9.0-11.0		29.00
1078	" " prime,		39.1	43.0	10.2	9.0		28.00
1204	* " " Star, prime,		43.5	43.0	8.2	9.0-10.0		28.00
Linseed meal, old process.								
1080	Linseed oil meal, O. P.,		31.3	32.0-36.0	7.4	5.0-7.0		30.00
1312	" " " "		34.6	32.0-36.0	7.1	5.0-7.0		27.00
1114	* " " " Export,		30.0	36.0	7.6	7.0		26.00
1275	* " " " " "		29.8	36.0	7.4	7.0		28.00
1333	* " " " " "		29.9	36.0	8.0	7.0		28.00
1341	* " " " " "		28.3	36.0	6.8	7.0		30.00
1190	" " " " Green ov.,		33.0	36.0	8.3	7.0		30.00
1230	" " " " " "		29.5	32.0-36.0	7.3	5.0-7.0		27.00
1279	" " " " " "		36.5	32.0-36.0	7.8	5.0-7.0		26.00
1127	" " " " " "		36.4	38.32	6.7	7.01		30.00
1267	" " " " " "		35.1	35.65	6.6	7.62		29.00
1103	" " " " " "		32.3	34.0	7.2	6.5		36.00
1243	" " " " " "		32.6	35.94	13.5	5.04		30.00
1147	" " " " " "		34.9	36.7	9.2	7.83		28.00
1207	" " " " " "		34.7	35.15	8.6	6.05		27.00
1271	" " " " " "		34.9	35.15	7.9	6.05		29.00
1100	" " " " " "		32.2	32.0-36.0	8.2	5.0-7.0		40.00

Col- lec- tion No.	Name and address of manufacturer or jobber.	Sampled at
1270 1128 1077 1228	Metzger Seed & Oil Co., Toledo, O., Union Linseed Co., Troy, Clements, A. L., & Co., New York, Midland Linseed Co., Minneapolis, Minn.,	Jamestown, Hayward & Co., Poughkeepsie, J. J. McCann, New York, Clark & Allen, Batavia, C. H. & H. N. Douglass,
1118	Milwaukee Linseed Oil Wks., Mil'kee, Wis.,	Ossining, Crow & Williams,
1143 1242 1101	Biles, The J. W., Co., Cincinnati, O., " " " " " Chapin & Co., Buffalo,	Albany, J. A. Reynolds, Rochester, E. C. Campbell, Pleasantville, Washburne Supply Co.,
1159 1266 1221 1276	Krause, C. A., Grain Co., Milwaukee, Wis., Biles, The J. W., Co., Cincinnati, O., Chapin & Co., Buffalo, " " " "	Troy, J. D. Westfall & Sons, Buffalo, Henry & Missert, Fulton, Gilbert Nichols Co., Falconer, Falconer Milling Co.,
1212	American Spirits Mfg. Co., Peoria, Ill.	Carthage, Jones & Simmons,
1282	" " " " "	Olean, Olean Mills,
1197	Page, J. D., & Co., Syracuse,	Ogdensburg, W. C. Wilcox,
1104	Merchants Distilling Co., Terre Haute, Ind.,	Pleasantville, Washburne Supply Co.,
1294	" " " " "	Buffalo, Chapin & Co.,
1134	Mueller, E. P., Milwaukee, Wis.,	Poughkeepsie, Reynolds Eleva- tor Co.,
1138	Mueller, E. P., Milwaukee, Wis.,	Poughkeepsie, Ambler Bros.,
1262 1265	Heinhold, J. G., Buffalo, Kam Malting Co., "	Lancaster, P. Mook, Buffalo, Henry & Missert,
1139	Mueller, E. P., Milwaukee, Wis.,	Poughkeepsie, Ambler Bros.,
1357	Nester, S. K., Geneva,	Geneva, S. K. Nester,
1160	Oneonta Milling Co., Oneonta,	Troy, A. VanValkenburg,
1306	" " " Chicago, Ill.,	Oneonta, Oneonta Milling Co.
1200	Rang, H., & Sons, Chicago, Ill.,	Utica, McLaughlin Bros.,
1130	Pope, Chas., Glucose Co., Chicago, Ill.,	Poughkeepsie, Reynolds Eleva- tor Co.,
1199	Flint Mill Co., Milwaukee, Wis.,	Ogdensburg, V. G. Morey,
1152	Glucose Sugar Refining Co., Chicago, Ill.,	Albany, J. A. Reynolds, Knickerbocker Mill & Grain Co.,
1334	Glucose Sugar Refining Co., Chicago, Ill.,	Owego, C. R. Dean,
1142	Illinois " " "	Albany, J. A. Reynolds,
1218	National Starch Co.,	Oswego, National Starch Co.,
1094	New York Glucose Co., New York,	New York, W. S. Travis,
1304	" " " " "	Oneonta, Oneonta Milling Co.,
1263	Piel Bros. Starch Co., Indianapolis, Ind.,	Lancaster, P. Mook,

Col- lection No.	Name of feed.	Protein.		Fat.		Crude fiber found.	Price per ton.
		Found.	Guar- anteed.	Found.	Guar- anteed.		
I270	Linseed oil meal, O. P.,	<i>Per ct.</i> 32.6	<i>Per ct.</i> 32.0-36.0	<i>Per ct.</i> 7.2	<i>Per ct.</i> 5.0-7.0	<i>Per ct.</i>	\$25.00
I128	" " " Cow,	32.9	22.09	8.1	6.32		35.00
I077	" cake, ground, O. P.,	28.9	32.0-37.5	7.1	5.5-8.5		25.00
I228	" " " "	28.9	32.5-37.5	8.2	5.5-8.5		30.00
I118	* " " " " "	32.7	34.0-38.0	9.2	5.0-8.0		30.00
	DISTILLERY AND BREWERY BY- PRODUCTS.						
	<i>Distillers' grains.</i>						
I143	Distillers' dried grains, XXXX,	35.4	33.0	I3.5	11.0	12.0	26.00
I242	" " " " "	33.5	33.0	I4.1	11.0		26.00
I101	* " " " Ajax,	30.9	34.02	I4.1	I2.03	14.0	25.00
I159	" " " Blue ribbon,	31.6	33.0	I2.8	11.0		26.00
I266	" " " rye (R),	19.1	21.0	7.3	5.0	I3.7	20.00
I221	Ajax flakes,	31.1	34.0	I3.1	12.0		25.00
I276	" "	32.4	34.0	11.4	12.0		25.00
I212	Gluten feed, Manhattan,	34.8	34.0	11.4	12.0		26.50
I282	" " " "	33.3	34.0	10.2	12.0		28.00
I197	Dairy feed, Empire State,	31.6	36.22	I3.4	11.76		28.00
I104	" " Merchants',	32.6	34.0	I4.3	12.0	I2.3	25.00
I294	" " " "	31.8	34.0	I4.3	12.0		
	<i>Brewers' grains.</i>						
I134	* Brewers' dried grains,	25.2		6.1		14.2	21.00
I138	" " " "	28.7		7.2		15.0	22.00
	<i>Malt sprouts.</i>						
I262	Malt sprouts,	24.2		1.7			17.00
I265	" "	25.9	23.81	1.4	I.34		15.50
I139	* " "	25.0		1.5			18.00
I357	" "	31.2	25.0	2.7	2.0		15.00
I160	* " "	24.3		1.7			18.00
I306	* " "	24.4		1.5			20.00
I200	* " "	26.4		1.5			18.00
	CORN BY-PRODUCTS.						
	<i>Gluten meal.</i>						
I130	Gluten meal, Cream,	38.8	34.12	2.0	3.2		32.00
	<i>Gluten feed.</i>						
I199	Gluten feed, Flint,	22.7	28.5	3.2	3.0		26.00
I152	" " Buffalo,	23.4	28.0	3.6	3.0		26.00
I334	" " " "	24.2	28.0	2.9	3.0		24.50
I142	" " Pekin,	26.6	28.0	3.5	3.0		26.00
I218	" " Queen,	24.3	27.5	2.4	2.5		24.00
I094	" " Globe,	25.3	27.0	2.5	3.38		27.00
I304	" " " "	25.9	27.0	3.7	3.38		26.50
I263	" " Piel Bros.,	27.0	27.6	1.9	2.6		24.00

Collection No.	Name and address of manufacturer or jobber.	Sampled at
1136	Warner Sugar Refining Co., Chicago, Ill.,	Poughkeepsie, Reynolds Elevator Co.,
1327	Warner Sugar Refining Co., Chicago, Ill.,	Binghamton, G. Q. Moon & Co.,
1151	Glucose Sugar Refining Co., Chicago, Ill.,	Albany, Knickerbocker Mill & Grain Co.,
1215	Pratt Cereal Oil Co., Decatur, Ill.,	Oswego, H. M. Quigg,
1256	" " " " "	Buffalo, Husted Mill & Elev. Co.
1097	American Hominy Co., Indianapolis, Ind.,	Yonkers, M. A. Austin,
1123	Buffalo Cereal Co., Buffalo,	Peekskill, C. S. Horton & Sons,
1259	" " " "	Buffalo, Buffalo Cereal Co.,
1342	" " " "	Ithaca, W. J. Davis,
1126	Chapin & Co., "	Ossining, J. Chadeayne & Sons,
1281	" " " "	Olean, Empire Mills,
1309	Hunter Bros. Milling Co., St. Louis, Mo.,	Oneonta, Oneonta Milling Co.,
1356	Patent Cereals Co., Geneva,	Geneva, Patent Cereals Co.,
1082	Payne, W. H., & Son, New York,	New York, W. H. Payne & Son,
1109	Suffern, Hunt & Co., Decatur, Ill.,	White Plains, Cowen & Co.,
1319	" " " " "	Oneonta, Ford & Rowe,
1137	Toledo Elevator Co., The, Toledo, O.,	Poughkeepsie, Ambler Bros.,
1314	" " " " "	Oneonta, Morris Bros.,
1290	U. S. Frumentum Co., Detroit, Mich.,	Springville, Victor Mills,
1264	Acme Milling Co., Indianapolis, Ind.,	Lancaster, P. Mook,
1269	Bernet, Craft & Kauffman Mill Co., St Louis, Mo.,	Fredonia, O. M. & J. R. Hall,
1311	Blish Milling Co., Seymour, Ind ,	Oneonta, Morris Bros.,
1211	Brooks Elevator Co., Minneapolis, Minn.,	Lowville, Louis Bush,
1231	Chapin & Co., Buffalo,	Canastota, F. T. Benjamin,
1268	Commercial Milling Co., Detroit, Mich.,	Brocton, C. P. Lawson,
1353	Empire State Mills, Syracuse,	Tully, W. A. Dewey,
1320	Fertig, H. G., & Co., Minneapolis, Minn.,	Sidney, A. J. Ives,
1210	Flint Mill Co., Milwaukee, Wis.,	Lowville, Louis Bush,
1293	" " " " "	Buffalo, Flint Mill Co.,
1131	Gardner Mill, The, Hastings, Minn.,	Poughkeepsie, Reynolds Elevator Co.,
1325	Hunter Bros. Milling Co., St. Louis, Mo.,	Norwich, R. D. Eaton Grain & Feed Co.,
1229	Imperial Milling Co., Duluth, Minn.,	Rome, G. Oster & Son,
1313	" " " " "	Oneonta, Morris Bros.,
1202	Kehlror Bros., St. Louis, Mo.,	Utica, McLoughlin Bros.,
1187	Lawrenceburg Roller Mills Co., Lawrenceburg, Ind.,	Whitehall, The Witherbee Cash Store,
1222	Meyer, J. F., & Son, Springfield, Mo.,	Phoenix, A. C. Parker,
1316	Moore, R. P., Milling Co., Princeton, Ind.,	Oneonta, Morris Bros.,
1315	Morris Bros., Oneonta,	Oneonta, Morris Bros.,
1196	Ogdensburg Roller Mills, Ogdensburg,	Ogdensburg, Ogd'bg Roller Mills.

Col- lection No.	Name of feed.	Protein.		Fat.		Crude fiber found.	Price per ton.
		Found.	Guar- anteed.	Found.	Guar- anteed.		
		<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>	
1136	Gluten feed, Warner's,	23.8	28.0	2.5	3.5		\$27.00
1327	Gluten feed, Warner's,	24.5		3.5			25.50
	<i>Germ oil meal.</i>						
1151	Germ oil meal,	23.2	25.0	9.9	10.5		26.00
	<i>Germaline.</i>						
1215	Germaline,	13.2	12.9	1.1	1.29	4.4	23.00
1256	"	11.3	12.9	1.4	1.29	4.9	25.00
	<i>Hominy feed.</i>						
1097	Hominy feed,	10.9	10.24	9.4	7.72	4.2	25.00
1123	" meal, Howard,	9.6	10.5	7.9	8.5	3.8	25.00
1259	" feed,	9.7	10.5	5.4	8.5	3.9	20.00
1342	" "	9.7	10.5	8.6	8.5	5.3	24.00
1126	" " Green diamond,	10.4	11.0	8.2	8.0-9.0	5.1	24.00
1281	" " " "	9.2	11.0	6.6	8.0-9.0	7.1	23.00
1309	" "	9.4	11.02	8.4	7.7	5.8	23.50
1356	" "	10.1	11.0	8.4	8.0	4.4	21.00
1082	" chop,	10.1	11.49	7.3	8.0	3.6	24.00
1109	" "	9.5	11.02	6.7	7.7	5.2	28.00
1319	" feed,	9.2	11.02	7.4	7.7	4.5	23.00
1137	" "	9.3	12.6	6.4	8.57	7.7	24.00
1314	" "	9.6	12.6	5.1	8.57	6.4	23.00
1290	" " Frumentum,	10.1	10.31	7.2	7.98	3.3	22.00
	WHEAT BY-PRODUCTS.						
	<i>Bran and middlings.</i>						
1264	Acme feed,	15.8		4.7		8.5	24.00
1269	Mixed "	16.3		4.5		8.4	23.50
1311	" "	15.4		4.6		8.2	25.00
1211	" " Royal,	16.3		4.8		8.7	23.50
1231	" " Erie,	15.6		4.5		8.2	24.00
1268	" " winter wheat,	15.3		4.0		8.2	24.00
1353	" "	15.4		4.9		7.7	25.00
1320	" " Monogram,	17.3		5.2		7.6	25.00
1210	" " Vermont,	17.3		5.1		7.8	24.50
1293	" " "	16.9		5.1		7.8	
1131	" " Croesus,	16.3		4.5		10.2	25.00
1325	" " Sunshine,	17.6		4.7		7.8	25.00
1229	" " Boston,	16.8		5.0		8.9	24.00
1313	" " "	16.8		5.2		8.9	24.00
1202	" "	15.6		4.5		8.6	23.00
1187	" " Snowflake,	15.1		4.6		7.4	27.00
1222	" " Model,	16.3		4.5		8.5	23.00
1316	" " King,	18.3		4.6		8.6	25.00
1315	" " Delaware,	15.1		4.5		7.9	25.00
1196	" "	15.0		4.3		5.9	24.00

Col- lec- tion No.	Name and address of manufacturer or jobber.	Sampled at
1195	Rex Milling Co., Kansas City, Mo.,	Malone, Ladd & Smallman,
1209	Russell, Henry, Albany,	Boonville, A. H. Barber & Son,
1310	Russell-Miller Mill Co., Minneapolis, Minn.,	Oneonta, Oneonta Milling Co.,
1321	Sheffield Milling Co., The, Faribault, Minn.,	Sidney, Sidney Flour & Feed Co.,
1191	Sparks Milling Co., Alton, Ill.,	Malone, G. D. Northridge,
1203	" " " "	Utica, G. W. Head Co.,
1208	Stott, David, Detroit, Mich.,	Boonville, A. H. Barber & Son,
1236	" " " "	Amsterdam, W. N. Carpenter Co.,
1201	Thornton & Chester Milling Co., Buffalo,	Utica, McLoughlin Bros.,
1189	Waller, A. & Co., Henderson, Ky.,	Malone, O. S. Lawrence,
1326	Washburn-Crosby Co., Minneapolis, Minn.,	Norwich, H. O. Hale,
1223	Webster Mill Co., Webster, S. D.,	Phoenix, A. C. Parker,
1217	American Cereal Co., Chicago, Ill.,	Oswego, H. W. Barnes & Son,
1288	" " " "	Ellicottville, Ellicottville Mill- ing Co.,
1198	Stock, F. W., & Sons, Hillsdale, Mich.,	Ogdensburg, W. C. Wilcox,
1219	Gage, W. G., & Co., Fulton,	Fulton, W. G. Gage & Co.,
1157	American Cereal Co., Chicago, Ill.,	Troy, J. D. Westfall & Sons,
1181	" " " "	Fort Edward, J. G. Kinne,
1177	Great Western Cereal Co., The, Chicago, Ill.,	Fort Edward, E. L. Potter,
1183	" " " "	Glens Falls, G. Roberts,
1340	" " " "	Painted Post, Hodgman Milling Co.,
1169	Barwell, J. W., Waukegan, Ill.,	Hoosick Falls, J. J. Deming & Co.,
1305	" " " "	Oneonta, Oneonta Milling Co.,
1178	" " " "	Fort Edward, E. L. Potter,
1277	" " " "	Salamanca, H. Neff,
1354	Biles, J. W., Co., Cincinnati, O.,	Cazenovia, G. H. Atwell & Son,
1149	Knickerbocker Milling & Grain Co., Albany,	Albany, Knickerbocker Milling & Grain Co.,
1185	Glens Falls Co., Glens Falls,	Glens Falls, Glens Falls Co.,
1253	Hotton, Nicholas, Portville,	Portville, N. Hotton,
1176	Lapham & Parks, Glens Falls,	Glens Falls, Lapham & Parks,
1174	Ashton, E. B., Saratoga Springs,	Saratoga Springs, E. B. Ashton,
1148	Barber & Bennett, Albany,	Albany, Barber & Bennett,
1081	Bowne Bros., Flushing,	Flushing, Bowne Bros.,
1088	Bowne, S. W., Brooklyn,	Brooklyn, S. W. Bowne,
1343	Fall Creek Milling Co., Ithaca,	Ithaca, W. J. Davis,
1076	Morgan, Thomas, Long Island City,	Long Island City, Thos. Morgan,
1278	Neff, Henry, Salamanca,	Salamanca, H. Neff,
1083	Payne, W. H., & Son, New York,	New York, W. H. Payne & Son,
1089	Shaw & Truesdell Co., Brooklyn,	Brooklyn, Shaw & Truesdell Co.,
1105	Washburne Supply Co., Pleasantville,	Pleasantville, Washburne Supply Co.,
1170	Tierney & Dalton, Mechanicville,	Mechanicville, Tierney & Dalton,

Col- lection No.	Name of feed.	Protein.		Fat.		Crude fiber found.	Price per ton.
		Found.	Guar- anteed.	Found.	Guar- anteed		
		<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>	
1195	Mixed feed,	16.5		4.9		8.0	\$25.00
1209	" "	17.3		5.2		7.1	24.50
1310	" " Occident,	16.5		5.4		7.8	25.50
1321	" " Gold Mine,	18.5		3.8		7.6	25.00
1194	" " Tri-Me,	18.3		4.5		8.0	24.00
1203	" "	16.3		4.5		8.4	23.00
1208	" " Stott's Honest,	14.5		4.7		8.0	24.50
1236	" " " winter wheat,	15.9		4.5		7.8	24.00
1201	" "	16.5		5.1		9.3	23.00
1189	" " Blue Grass,	10.5	12.59	1.9	3.19	18.0	24.00
1326	" " Superior,	16.8		4.7		8.9	24.00
1223	" "	16.7		5.2		8.1	22.50
1217	Wheat feed, Buckeye,	15.6	17.75	4.3	4.7	7.5	23.00
1288	" " "	15.0	17.75	4.2	4.7	7.6	24.00
1198	" " Monarch ground,	14.6		4.6		7.4	25.00
OATS AND THEIR BY-PRODUCTS.							
1219	* Oats, ground,	7.9		3.2		20.5	31.50
1157	* Oat feed, X,	7.2	6.3	3.0	2.38	24.0	14.00
1181	" " Vim,	8.1	6.3	2.7	2.38	23.6	13.00
1177	* " " Cream,	5.1	6.97	1.5	2.83	25.6	15.00
1183	" " Royal,	5.7	7.53	2.1	2.85	27.1	17.00
1340	" " "	5.1	7.6	2.0	2.8	29.7	15.00
COMPOUNDED FEEDS. <i>Proprietary and otherwise.</i>							
1169	Blatchford's calf meal,	22.7	26.0	4.5	5.0		70.00
1305	" " "	22.1	26.0	4.3	5.0		70.00
1178	" sugar and flaxseed,	26.1	28.25	10.2	11.25		70.00
1277	" " "	27.1	28.25	10.9	11.25		60.00
1354	Biles' ready ration,	24.6	24.0	6.9	7.0	9.1	26.00
1149	Champion feed,	9.9	9.92	2.8	4.01	3.7	22.00
1185	* Common feed,	8.5		2.9		7.6	24.00
1285	" "	8.9	8.38	2.5	4.85	12.7	22.00
1176	" "	8.1	7.5	2.1	3.25	8.4	23.00
1174	Corn and light oats, ground,	9.6		3.4		5.8	23.00
1148	Corn and oats, ground,	8.5		1.2		9.9	22.00
1081	" " "	9.0		4.3		4.4	26.00
1088	" " "	7.8		3.8		7.5	21.80
1343	" " "	12.4		4.0		3.4	27.00
1076	" " "	8.3		4.0		4.4	22.00
1278	" " "	10.3		3.7		7.5	25.00
1083	" " "	9.1	10.05	6.3	6.21	10.1	
1089	" " "	8.6		3.5		5.7	22.20
1105	" " "	9.6		2.7		5.9	31.00
1170	Corn, oats and rye, ground,	10.5		2.2		7.7	30.00

Col- lec- tion No.	Name and address of manufacturer or jobber.	Sampled at
1166	Buffalo Cereal Co.,	Hoosick Falls, Brown & Brownell,
1337	Chase-Hibbard Milling Co., Elmira,	Elmira, Chase-Hibbard Milling Co.,
1346	Dayton Milling Co., Towanda,	Ithaca, J. B. Thayer,
1261	Allen, C. E., Niagara Falls,	Niagara Falls, C. E. Allen,
1286	Ellicottville Milling Co., Ellicottville,	Ellicottville, Ellicottville Milling Co.,
1338	Hayt, S. T., Corning,	Corning, S. T. Hayt,
1339	Hodgman Milling Co., Painted Post,	Painted Post, Hodgman Milling Co.,
1121	Husted Milling & Elevator Co., Buffalo,	Peekskill, E. McCord & Son,
1233	" " " " " "	Geneva, C. C. Davidson,
1150	Knickerbocker Milling & Grain Co., Albany,	Albany, Knickerbocker Milling & Grain Co.,
1284	Oliver, Geo., Olean,	Olean, Geo. Oliver,
1182	Roberts, Geo., Glens Falls,	Glens Falls, Geo. Roberts,
1289	Victor Mills, Springville,	Springville, Victor Mills,
1153	Albany City Mills, Albany,	Albany, Albany City Mills,
1086	American Cereal Co., Chicago, Ill.,	New York, H. Ingersoll,
1299	" " " " " "	Medina, S. P. Blood & Co.,
1238	Buffalo Cereal Co., Buffalo,	Amsterdam, Hill & Watson,
1317	" " " " " "	Oneonta, Morris Bros.,
1192	Elsworth & Co., " "	Malone, G. D. Northridge,
1084	Great Western Cereal Co, Chicago, Ill.,	New York, Demerest & Carr,
1085	" " " " " "	" " " " " "
1171	" " " " " "	Ballston Spa., W. S. Wheeler's Son,
1191	Illinois Cereal Co., Lockport, Ill.,	Malone, G. D. Northridge,
1125	Niagara Mill & Elevator Co., Buffalo,	Ossining, J. Chadeayne & Sons.
1227	" " " " " "	Batavia, C. H. & H. N. Douglass,
1300	Niagara Mill & Elevator Co., Buffalo,	Albion, Woods & Sprague,
1186	Oneonta Milling Co., Oneonta,	Sandy Hill, H. S. & J. S. Shippy,
1303	" " " " " "	Oneonta, Oneonta Milling Co.,
1336	Peck, T. R., & Son, Horseheads,	Horseheads, T. R. Peck & Son,
1234	Dixon & Warren, Port Byron,	Auburn, A. W. Holley,
1145	Oneonta Milling Co., Oneonta,	Albany, J. A. Reynolds,
1302	" " " " " "	Oneonta, Oneonta Milling Co.,
1132	Buffalo Cereal Co., Buffalo,	Poughkeepsie, Reynolds Elev. Co.,
1168	Buffalo Cereal Co., Buffalo,	Hoosick Falls, Brown & Brownell,
1096	American Cereal Co., Chicago, Ill.,	Yonkers, J. J. Wiffler,
1344	" " " " " "	Ithaca, Holman Bros.,
1173	" Milling Co., Peoria, Ill.,	Ballston Spa., W. S. Wheeler's Son,
1322	American Milling Co., Peoria, Ill.,	Norwich, Eaton Grain & Feed Co.,

Collection No.	Name of feed.	Protein.		Fat.		Crude fiber found.	Price per ton.
		Found.	Guaranteed.	Found.	Guaranteed.		
		Per ct.	Per ct.	Per ct.	Per ct.	Per ct.	
1166	Corn and oat chop,	8.4	7.5	4.3	3.5	13.0	\$21.50
1337	" " " No. 2,	9.1		3.6		11.3	21.00
1346	" " " No. 2,	6.8		2.4		9.5	26.00
1261	* Chop feed, Niagara,	10.1	10.42	3.0	4.83	10.3	21.00
1286	" " "	7.5	8.2	1.8	4.4	11.6	23.00
1338	" " corn and oats,	9.4	10.43	3.4	4.0	9.5	26.00
1339	" " " "	10.2	9.69	3.4	3.88	6.2	25.00
1121	" " Monarch,	7.1	8.09	4.0	4.16	13.8	24.00
1233	" " " "	11.6	8.09	4.5	4.16	12.6	22.00
1150	" " corn and oats,	9.8		2.5		5.2	20.00
1284	" " "	7.8	8.13	1.8	4.59	11.8	26.00
1182	" " and corn meal,	8.4		3.4		5.5	24.00
1289	" Golden,	8.8	9.17	3.0	5.84	6.1	20.00
1153	Corn and oat feed, Capitol,	6.3	9.04	2.6	3.75	18.4	21.50
1086	" " Victor,	8.1	9.0	4.1	4.0	11.2	24.00
1299	" " " "	8.9	9.0	4.6	4.0	11.7	23.00
1238	" " XXX,	9.6	9.5	4.6	4.5	10.4	25.00
1317	" " " "	9.7	9.5	4.5	4.5	14.0	26.00
1192	" " De-Fi,	9.4	8.3	2.5	3.0	15.8	20.00
1084	" " Boss,	7.3	8.27	2.4	3.64	15.4	
1085	" " Excelsior,	9.4	8.21	4.4	4.58	13.0	
1171	" " " "	9.6	9.0	6.2	4.2	10.3	24.00
1191	* " " Anchor,	9.1	9.5	2.4	4.0	14.1	22.00
1125	" " Niagara,	8.3	8.2	3.5	3.37	6.0	25.00
1227	" " " "	6.2	8.2	2.9	3.37	16.8	20.00
1300	" " " "	7.0	8.2	3.0	3.37	15.6	24.00
1186	" " Arrow,	8.8	9.0	3.5	3.75	4.2	26.00
1303	" " " "	8.7	9.0	2.5	3.75	3.3	22.50
1336	" " " "	7.9		1.1		9.7	23.00
1234	" " provender,	7.7		2.7		13.3	28.00
1145	" " " choice,	7.3	8.75	2.3	3.5	11.4	20.50
1302	" " " "	8.4	8.75	1.6	3.5	18.3	21.50
1132	Creamery feed,	19.8	20.0	5.4	5.0	12.1	28.00
1168	" " " "	17.6	20.0	5.1	5.0	12.2	27.00
1096	Dairy feed, Quaker,	14.7	14.0	4.7	3.5	17.1	28.00
1344	" " " "	13.6	14.0	4.3	3.5	18.9	25.00
1173	" " Sucrene,	14.4	16.5	4.1	3.5	12.9	25.00
1322	" " " "	15.5	16.5	2.5	3.5	11.4	24.00

Col- lec- tion No.	Name and address of manufacturer or jobber.	Sampled at
1167	Buffalo Cereal Co., Buffalo,	Hoosick Falls, Brown & Bron- nell,
1193	Great Western Cereal Co., Chicago, Ill.,	Malone, G. D. Northridge,
1113	H-O Co., The, Buffalo,	Dobbs Ferry, Lawrence & Co.,
1235	Empire Mills, Olean,	Auburn, J. T. Mollard,
1280	" " "	Olean, Empire Mills,
1079	Adikes, J. & T., Jamaica,	Jamaica, J. & T. Adikes,
1098	Brett, J. H., Mt. Vernon,	Mt. Vernon, J. H. Brett,
1090	Brooklyn Elev. & Mill. Co., Brooklyn,	Brooklyn, Brooklyn Elev. & Mill Co.,
1154	Close Bros., Schenectady,	Schenectady, Close Bros.,
1091	Fulton Grain & Milling Co., Brooklyn,	Brooklyn, Fulton Grain & Milling Co.,
1115	Lawrence, N., Co., Dobbs Ferry,	Dobbs Ferry, N. Lawrence Co.,
1092	McCord, H. D., & Son, New York,	New York, H. D. McCord & Son,
1158	Paine Bros. Co., Milwaukee, Wis.,	Troy, J. D. Westfall & Sons,
1093	Travis, W. S., New York,	New York, W. S. Travis,
1172	American Milling Co., Peoria, Ill.,	Ballston Spa, W. S. Wheeler's Son,
1323	American Milling Co., Peoria, Ill.	Norwich, Eaton Grain & Feed Co.,
1107	Buffalo Cereal Co., Buffalo,	White Plains, R. Young & Bros. Co.,
1087	H-O Co., The, Buffalo,	New York, T. P. Huffman & Co.,
1335	H-O Co., The, Buffalo,	Owego, C. R. Dean,
1146	Oneonta Milling Co., Oneonta,	Albany, J. A. Reynolds,
1291	Lackawanna Mill & Elevator Co., Buffalo,	Buffalo, Lackawanna Mill & Elev. Co.,
1119	Bagley, G. A. Peekskill,	Peekskill, G. A. Bagley,
1116	Crow & Williams, Ossining,	Ossining, Crow & Williams,
1308	Oneonta Milling Co., Oneonta,	Oneonta, Oneonta Milling Co.,
1359	Staples, A. S., Rondout,	Rondout, A. S. Staples,
1135	Mueller, E. P., Milwaukee, Wis.,	Poughkeepsie, Reynolds Eleva- tor Co.,
1175	Mueller, E. P., Milwaukee, Wis.,	Saratoga Springs, D. Gibbs & Son,
1324	Mueller, E. P., Milwaukee, Wis.,	Norwich, Eaton Grain & Feed Co.,
1225	Rankin, M. G., Co., Milwaukee, Wis.,	Syracuse, H. Frier,
1140	Toledo Elevator Co., The, Toledo, O.,	Poughkeepsie, Reynolds Eleva- tor Co.,
1332	Toledo Elevator Co., The, Toledo, O.,	Binghamton, Baker Bros.,
1108	American Cereal Co., Chicago, Ill.,	White Plains, R. Young & Bros. Co.,
1345	American Cereal Co., Chicago, Ill.,	Ithaca, J. B. Thayer,
1112	Flint Mill Co., Milwaukee, Wis.,	Dobbs Ferry, Lawrence & Co.,
1292	" " " " "	Buffalo, Flint Mill Co.,

Col- lection No.	Name of feed.	Protein.		Fat.		Crude fiber found.	Price per ton.
		Found.	Guar- anteed.	Found.	Guar- anteed.		
		Per ct. 12.8	Per ct. 14.0	Per ct. 3.6	Per ct. 4.0	Per ct. 14.2	
1167	Dairy feed,						\$24.00
1193	* Dairy feed, Great Western,	8.1	12.25	2.2	3.2	19.9	17.00
1113	" " H-O,	18.1	18.0	4.3	4.5	13.8	26.00
1235	Empire feed,	7.4	7.63	2.3	2.97	7.5	24.00
1280	" "	7.6	7.63	1.7	2.97	9.6	23.00
1079	Ground feed,	9.2	8.75	2.7	3.0	7.9	20.00
1098	" "	11.7		4.6		5.6	28.00
1090	" "	9.3		4.0		5.3	28.00
1154	" "	9.7		3.0		5.8	22.00
1091	" "	12.8		3.2		12.5	20.00
1115	" "	6.8		2.9		15.5	20.00
1092	" "	7.9		3.5		10.4	
1158	" " Puritan,	7.3	8.5	2.6	3.25	15.3	20.50
1093	" "	12.9		3.2		7.4	24.00
1172	Horse feed, Sucrene,	14.8	13.5	2.8	4.5	10.6	27.00
1323	" " "	15.0	13.5	2.3	4.5	10.9	26.00
1107	" "	12.3	12.0	4.9	4.5	10.5	29.00
1087	" " H-O,	11.5	12.0	4.1	4.5	9.4	28.00
1335	" " "	11.1	12.0	4.0	4.5	11.7	28.00
1146	" " Monarch,	13.8	13.0	4.0	5.75	7.2	28.00
1291	Horse and cattle feed, Lacka- wanna Special,	7.4	10.93	2.6	3.43	12.4	21.00
1119	Mixed feed, G. W. Bagley & Son's,	16.0	16.0	5.4	6.0	6.7	26.00
1116	" " C. & W.,	10.3	10.0	2.9	4.5	7.5	24.00
1308	" " rye,	15.8	14.75	3.2	3.5	5.4	24.00
1359	" " Arcade,	7.4	10.42	4.7	5.86	14.3	26.00
1135	Molasses feed for horses,	17.1	21.81	3.4	2.73	11.9	21.00
1175	" " "	24.0	21.81	4.1	2.73	10.9	20.00
1324	" " "	22.4	21.81	3.7	2.73	10.0	24.00
1225	" " "	22.2	21.81	3.0	2.73	9.8	21.00
1140	Star feed,	8.3	11.4	6.2	7.31	10.0	24.00
1332	" "	9.7	11.4	5.8	7.31	8.0	24.00
1108	Stock food, Schumacker's,	11.6	13.0	5.4	5.0	12.4	29.00
1345	" " "	11.8	13.0	4.8	5.0	11.9	27.00
1112	" " Apex,	14.9	16.0	4.8	4.0	16.6	26.00
1292	" " "	14.1	16.0	4.7	4.0	16.4	

Collection No.	Name and address of manufacturer or jobber.	Sampled at
1124 1355 1156	Strong, Lefferts Co., The, New York, Unknown, Diamond Elev. & Mill. Co., Minn., Minn.,	Peekskill, G. F. Cooley, Geneva, C. C. Davison, Troy, J. D. Westfall & Sons,
1164 1106	American Cereal Co., Chicago, Ill., Buffalo Cereal Co., Buffalo,	Troy, Young & Halsted, White Plains, R. Young & Bros. Co.,
1111 1244 1350	H-O Co., The, Buffalo, " " " Cornell Incubator Mfg. Co., The, Ithaca,	Dobbs Ferry, Lawrence & Co., Batavia, E. J. Salway, Ithaca, The Cornell Incubator Mfg. Co.,
1252 1331 1122 1254 1161 1255 1253	Cyphers Incubator Co., Buffalo, Harding, Geo. L., Binghamton, Puritan Poultry Farms & Mfg. Co., N. Y., Cyphers Incubator Co., Buffalo, " " " " " " " " "	Buffalo, Cyphers Incubator Co., Binghamton, G. L. Harding, Peekskill, E. McCord & Son, Buffalo, Cyphers Incubator Co., Troy, H. W. Gordinier, Buffalo, Cyphers Incubator Co., " " "
1110 1133	H-O Co., The, Buffalo, Harding, Geo. L., Binghamton,	White Plains, Corven & Co., Poughkeepsie, Reynolds Ele- vator Co.,
1296 1248	Armour & Co., Chicago, Ill., " " "	Lockport, J. T. Darrison, Buffalo, Harvey Seed Co.,
1117 1287	Berg Co., The, Philadelphia, Pa., Barwell, J. W., Waukegan, Ill.,	Ossining, Crow & Williams, Ellicottville, Ellicottville Mill- ing Co.,
1348	Cornell Incubator Mfg. Co., The, Ithaca,	Ithaca, The Cornell Incubator Mfg. Co.,
1144 1329	Harding, Geo. L., Binghamton, " " "	Albany, J. A. Reynolds, Binghamton, Geo. L. Harding,
1129 1301	Bowker Fertilizer Co., New York, " " "	Poughkeepsie, J. J. McCann, Albion, Woods & Sprague,
1246 1295	Romaine, DeWitt, New York, Armour & Co., Chicago, Ill.,	Buffalo, Harvey Seed Co., Lockport, J. T. Darrison,
1349	Cornell Incubator Mfg. Co., The, Ithaca,	Ithaca, The Cornell Incubator Mfg. Co.,
1141 1239	Darling & Co., Chicago, Ill., " " "	Hudson, J. H. Vosburgh, Gloversville, M. D. Kasson, Utica, M. T. Jones,
1206 1163	Finn, G. M., Syracuse, Stanton, H. M., Schenectady,	Troy, Young & Halstead, Buffalo, Harvey Seed Co.,
1247	Wuychet Fertilizer Co., Dayton, O.,	Lockport, J. T. Darrison,
1298	Armour & Co., Chicago, Ill.,	Buffalo, Cyphers Incubator Co.,
1251	Cudahy Packing Co., The, Kan. C., Kan.,	Buffalo, Harvey Seed Co.,
1249	Swift & Co., Chicago, Ill.,	
1120 1352 1351 1214	Pioneer Cereal Co., Akron, O., Ryan Bros., Jamesville, Smith, A. V., Marcellus Falls, Alma Sugar Co., Alma, Mich.,	Peekskill, G. A. Bagley, Jamesville, Ryan Bros., Marcellus Falls, A. V. Smith, Watertown, A. H. Herrick & Son,

Col- lection No.	Name of feed.	Protein.		Fat.		Crude fiber found.	Price per ton.
		Found.	Guar- anteed.	Found.	Guar- anteed.		
		Per ct.	Per ct.	Per ct.	Per ct.	Per ct.	
I124	*Stock food, Lenox,	7.3	9.88	3.8	3.27	12.2	\$22.00
I355	*Wheat bran and oat hulls,	8.9		2.5		25.8	16.00
I156	Yellow feed, "O. O."	11.5	10.51	5.6	5.75	6.6	24.00
POULTRY FOODS.							
I164	Poultry food, American,	13.3	14.0	6.4	4.5	5.0	35.00
I106	" "	15.2	17.0	5.3	5.0	4.9	35.00
I111	" " H-O,	16.4	17.0	5.6	5.5	4.9	28.00
I244	" " "	17.8	17.0	5.9	5.5	6.2	35.00
I350	*Chick food, Stan. Peep O'Day,	10.8	15.0	4.2	7.75		50.00
I252	" "	10.7	10.47	2.2	3.31	4.9	39.00
I331	* " " Unexcelled baby,	11.1	15.0	2.4	7.75		50.00
I122	" " Puritan,	12.4	12.5	6.7	7.0	5.3	60.00
I254	Forcing food,	16.2	18.17	4.0	7.11	5.5	39.00
I161	Laying " "	15.5	15.26	4.2	5.5	5.2	40.00
I255	" " "	15.7	15.26	1.8	5.5	5.3	
I253	Scratching food,	11.1	11.34	2.9	3.17	5.7	
I110	" " H-O,	10.6	12.0	3.1	3.0	2.8	40.00
I133	Egg builder ration, Harding's,	13.1		3.9			45.00
I296	Poultry bone, coarse,	22.9	24.0-26.0	1.0	5.0-6.0		45.00
I248	" " fine,	25.7	25.0	0.9			40.00
I117	" meat,	58.1		16.8			55.00
I287	† " meats, Blatchford's,	29.9	33.0	7.1	10.0		60.00
I348	*Meat meal, Cornell,	36.6	55.0-65.0	17.1	10.0-15.0		45.00
I144	" " celebrated,	34.1	55.0-65.0	13.6	10.0-15.0		50.00
I329	" " "	35.6	55.0-65.0	14.1	10.0-15.0		45.00
I129	Animal meal,	34.1	30.0	10.0	5.0		43.00
I301	" " "	40.4	30.0	9.0	5.0		50.00
I246	Boiled beef and bone,	45.6	45.0	17.6	15.0		40.00
I295	Meat and bone,	51.4	45.0	12.4	8.0		50.00
I349	*Beef scraps, Cornell standard,	34.1	42.0-50.0	22.1	30.0-35.0		50.00
I141	Beef scraps, pure, ground,	56.5	55.0-65.0	13.2	10.0-15.0		
I239	" " " "	52.0	55.0-65.0	11.9	10.0-15.0		60.00
I206	" " " "	41.6	42.64	19.1	19.12		50.00
I163	" " " "	40.6	50.0	25.6	9.0		40.00
I247	* " " " "	58.8	50.0	12.6	9.0		40.00
I298	Blood meal,	83.4	87.0	0.2	0.2		70.00
I251	* " " " "	82.8		0.3			70.00
I249	* " " " "	83.8	87.0	0.5			40.00
UNCLASSIFIED FEEDS.							
I120	Barley feed, Pioneer,	13.7	15.0	3.0	4.61	8.2	25.00
I352	" meal,	13.9		3.4		9.2	21.00
I351	" " "	13.1	14.8	4.1	3.4	10.7	21.00
I214	Beet pulp, dried,	8.4		0.7		19.2	18.00

* Not licensed in this State for 1904, prior to May 3, 1904.

† A condimental preparation.

The samples analyzed may be classified as follows :

TABLE III.—CLASSIFICATION OF SAMPLES ANALYZED.

Name of feed.	No. samples.	No. brands.
Cottonseed meal.....	17	13
Linseed oil meal.....	19	10
Linseed cake, ground.....	3	3
Distillers' grains.....	12	8
Brewers' grains.....	2	1
Malt sprouts.....	7	6
Gluten meal.....	1	1
Gluten feed	10	7
Germ oil meal.....	1	1
Germaline.....	2	1
Hominy feed or chop.....	14	10
Mixed feeds (bran and middlings).....	35	30
Oats and their by-products.....	6	5
Compounded feeds, proprietary and otherwise.....	96	74
Poultry foods.....	34	29
Miscellaneous feeds.....	4	4
Total.....	263	203

BRANDS ESPECIALLY MENTIONED.

The brands mentioned in Table IV are named for special consideration either because they are not what their name would indicate or because they are compounded by the use in part of inferior materials, oat hulls being the undesirable ingredient in nearly all cases.

It is unquestionably true that oat hulls have slight value as food for cattle, and their introduction into a compounded feed lowers the quality of the feed and should proportionately lower its price.

TABLE IV.—BRANDS NAMED FOR SPECIAL CONSIDERATION.

Collection No	Name of feed.	Protein.	Fat.	Fiber.
		<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
1257	Cottonseed meal,	21.8	5.0	22.7
1189	Mixed feed, Blue Grass,	10.5	1.9	18.0
1219	Oats, ground,	7.9	3.2	20.5
1157	Oat feed, X,	7.2	3.0	24.0
1181	“ Vim,	8.1	2.7	23.6
1177	“ Cream,	5.1	1.5	25.6
1183	“ Royal,	5.7	2.1	27.1
1340	“ “	5.1	2.0	29.7
1153	Corn and oat feed, Capitol	6.3	2.6	18.4
1086	“ “ Victor,	8.1	4.1	11.2
1299	“ “ “	8.9	4.6	11.7
1238	“ “ XXX,	9.6	4.6	10.4
1317	“ “ “	9.7	4.5	14.0
1192	“ “ De-Fi,	9.4	2.5	15.8
1084	“ “ Boss,	7.3	2.4	15.4
1085	“ “ Excelsior,	9.4	4.4	13.0
1171	“ “ “	9.6	6.2	10.3
1191	“ “ Anchor,	9.1	2.4	14.1
1227	“ “ Niagara,	6.2	2.9	16.8
1300	“ “ “	7.0	3.0	15.6
1234	Provender,	7.7	2.7	13.3
1145	“ choice corn and oat,	7.3	2.3	11.4
1302	“ “ “	8.4	1.6	18.3
1115	Ground feed,	6.8	2.9	15.5
1158	“ “ Puritan,	7.3	2.6	15.3
1359	Mixed “ Arcade,	7.4	4.7	14.3
1335	Wheat bran and oat hulls,	8.9	2.5	25.8
1193	Dairy feed, Great Western,	8.1	2.2	19.9

COMMENTS ON THE RESULTS OF INSPECTION.

A study of the figures showing the results of the inspection up to May 3 reveals the fact that the samples representing quite a large number of brands contained considerably less protein than called for by guarantees. In all, at least fifty-two samples showed a larger deficit than would be regarded as reasonable.

The deficit occurred as follows :

Cottonseed meal.....	5 samples.
Linseed meal	9 "
Distillers' dried grains.....	4 "
Gluten feed.....	4 "
Hominy feed.....	6 "
Compounded and proprietary feeds.....	18 "
Poultry foods.....	6 "

52

One brand, licensed as cottonseed meal, sold by the Husted Milling and Elevator Co., of Buffalo, N. Y., and recorded as manufactured by R. W. Biggs & Co., of Memphis, Tenn., was found to contain only 21.8 per ct. of protein whereas the minimum guarantee is 41 per ct.

The material is evidently cottonseed feed, or cottonseed meal mixed with ground hulls. Such a feed is fraudulent in its character.