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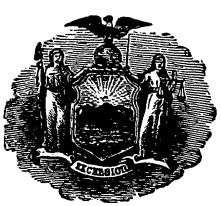
INSPECTION OF FEEDING STUFFS.

W. H. JORDAN, C. G. JENTER AND F. D. FULLER.



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BULLETIN No. 217.

INSPECTION OF FEEDING STUFFS.

W. H. JORDAN, C. G. JENTER AND F. D FULLER.

SUMMARY.

The report given herewith of the inspection of feeding stuffs comprises the following:

(1) List of brands licensed in the State of New York for the year 1902

(2) Analyses of samples collected in 1902.

(3) Comments on the facts shown by the inspection.

FEEDING STUFFS LICENSED IN 1902.

During the present year eighty-five manufacturers or jobbers have registered the guaranteed composition and paid the license fee on one hundred and twenty-nine brands of feeding stuffs to be placed on sale in the State of New York.

The brands named in the following list may be handled by dealers during the present year, without fear of violating the State law, as far as selling unlicensed goods is concerned, and may be purchased by the farmer with the assurance, excepting in infrequent cases, that the goods contain the amounts of protein and fat, within reasonable limits, guaranteed by the manufacturer of the goods.

TABLE I. — MANUFACTURERS AND IMPORTERS WHO HAVE COMPLIED WITH THE NEW YORK FEEDING STUFFS LAW FOR THE YEAR 1902, WITH A LIST OF BRANDS SO GUARANTEED AND THE GUARANTEES.

License number.	Manufacturer or jobber.		Name of feed.	Guaranteed.	
	Name.	Address.		Protein.	Fat.
				Per ct.	*Per ct.*
213	Acme Milling Co.,	Olean,	Acme feed,	8.50	4.50
232	Adikes, J. & T.,	Jamaica,	Ground feed,	8.75	3.0
218	American Cereal Co., The,	Chicago, Ill.,	Quaker dairy feed,	14.0	3.5
	" " " "	" "	Victor corn and oat feed,	9.0	4.0
	" " " "	" "	Schumacher's stock food,	13.0	5.0
	" " " "	" "	Corn, oats and barley feed,	13 0	5.0
	" " " "	" "	Buckeye wheat feed,	17.75	4.7
	" " " "	" "	Vim oat feed,	7.5	2.75
	" " " "	" "	American poultry food,	14.0	4.5
197	American Cotton Oil Co., The,	New York,	"Prime" cottonseed meal,	43.0	9.0
239	American Linseed Co.,	" "	Oil meal, O. P.,	32—36	5—7
178	American Milling Co.,	Chicago, Ill.,	Sucrene dairy feed,	16.5	3.5
246	American Spirits Mfg. Co.,	Peoria, Ill.,	Manhattan gluten feed,	31.8-36.2	10.8-11.8
233	Armour Fertilizer Works, The,	Chicago, Ill.,	Meat meal,	65—68	12—14
	" " " "	" "	Meat and bone,	60—62	10—12
	" " " "	" "	Blood meal,	85—87	2—3
	" " " "	" "	Poultry bone,	24—26	5—6
192	Atlas Feed & Milling Co.,	Peoria, Ill.,	Atlas gluten meal,	35.0	12.5
248	Bagley, G. A.,	Peekskill,	Mixed feed,	12.44	4.65
205	Barwell, J. W.,	Waukegan, Ill.,	Blatchford's calf meal,	26.0	5.0
208	Biles Co., The J. W.,	Cincinnati, O.,	Biles' XXXX distiller's dried grains.	33.0	11.0
	" " "	" "	Biles' XX distiller's dried grains,	30.0	8.0
	" " "	" "	Biles' R. distiller's dried grains,	21.0	5.0
230	Bowker Fertilizer Co.,	Boston, Mass.,	Animal meal,	30 0	5.0
	" " "	" "	Beef scraps,	30.0	20.0

243	Brodé, F. W., & Co.,	Memphis, Tenn.,	F. W. Brodé & Co.'s "Owl" cottonseed meal,	43.0	9.0
202	Brooks-Griffiths Co.,	Minneapolis, Minn ,	Royal mixed feed,	16.61	5.48
252	Cassel. F. P.,	Lansdale, Pa.,	F. P. C. chick manna,	14.1	4.75
199	Cerealine Mfg. Co.,	Indianapolis, Ind.,	Cerealine feed, No. 1,	7.88	5.99
	" " "	" "	" " " 2.	10.82	8.03
179	Chapin & Co.,	Buffalo,	Green diamond hominy feed,	11.0	8.0
	" "	"	Green diamond cottonseed meal,	43.0	9.0
	" "	"	Green diamond linseed meal, O. P.	36 0	7.0
	" "	"	Gluten feed,	28.0	3.0
258	Chester Mills,	"	Chester stock food,	9.5	4.0
247	Cleveland Milling Co.,	Cleveland, O.,	B chop,	9.58	5.42
	" " "	" "	C chop,	9.13	3.27
183	Commercial Milling Co.,	Detroit, Mich.,	Ground corn and oat feed provender,	10.81	6.02
193	Crittenden. M. L.,	Buffalo,	Sterling provender,	7.87	3.88
186	Crow & Williams,	Ossining,	Crow & Williams' mixed feed,	9.0	4.0
177	Darling & Co.,	Chicago, Ill.,	Beef meal,	55—65	10—15
	" "	" "	" scraps,	55—65	15—20
240	Diamond Elevator & Milling Co.,	Minneapolis, Minn.,	Hominy feed,	11.16	5 52
	" " "	" "	"O. O." feed,	10.51	5.75
236	Diamond Mills, The	Buffalo,	C. & O. feed,	9.44	4.78
253	" " "	"	Empire State cow feed,	14.96	3.48
	" " "	"	Mixed feed,	12.75	2.96
198	Ellicottville Milling Co.,	Ellicottville,	Chop feed,	8.20	4.40
220	Elsworth, E., & Co.,	Buffalo,	De-Fi corn and oat feed,	8.30	3.0
215	Empire Mills,	Olean,	Empire feed,	7.63	2.97
184	Evans, C. H., & Sons,	Hudson,	Malt sprouts,	28.44	0.46
222	Everett & Treadwell,	Kingston,	C. O. & W. feed,	11.5	3.5
190	Finn's, H., Sons,	Syracuse,	Ground beef cracklings,	45.88	20.4
267	Fuller-Page Co., The,	"	Mohawk winter wheat feed,	12.59	3 19
269	" " " "	"	" dairy feed,	35.60	12.40

TABLE I.—*Continued.*

License number.	Manufacturer or jobber.		Name of feed.	Guaranteed.	
	Name.	Address.		Protein.	Fat.
				Per ct.	*Per ct.*
214	Glucose Sugar Refining Co.,	Chicago, Ill.,	Buffalo gluten feed,	28.0	4.0
	" " " "	" "	Chicago gluten meal,	38.0	4.0
	" " " "	" "	Germ oil meal,	25.0	10.0
	" " " "	" "	Fancy corn bran,	14.0	4.0
180	Great Western Cereal Co., The,	" "	"Boss" feed,	8.27	3.64
	" " " " "	" "	"Durham" feed,	9.46	3.92
	" " " " "	" "	"Royal" "	8.25	4.14
	" " " " "	" "	"Friends" "	10.9	3.7
	" " " " "	" "	Great Western dairy feed,	12.25	3 2
259	" " " " "	" "	Excelsior corn and oat feed,	8.21	4.58
216	Harding, Geo. L.,	Binghamton,	Ground beef scraps,	42.0	30.0
	" " "	"	Harding's meat meal,	49.0	19.0
249	" " "	"	" unexcelled baby chick food,	15.0	7.75
211	Hauenstein & Co.,	Buffalo,	Linseed meal, O. P.,	37.82	7.54
234	Hayt, S. T.,	Corning,	Corn and oats,	10.0	4.0
221	H. O. Company, The,	Buffalo,	The H. O. Co.'s horse feed,	12.0	4.5
	" " "	"	" " " dairy feed,	18.0	4.5
	" " "	"	" " " poultry feed,	17.0	5.5
255	Hodgman, W. S., & Co.,	Painted Post,	Corn and oat chop feed,	9 69	3.88
238	Hotton Bros.,	Portville,	Common feed,	8.38	4.85
209	Hudnut Co., The,	Terre Haute, Ind.,	Hominy feed,	12.85	8.52
261	" " "	" " "	Maizelene feed,	10.42	9.03
223	Husted Milling & Elevator Co.,	Buffalo,	Monarch chop,	10.4	3.27
	" " " "	"	B "	8.28	2.75
196	Illinois Sugar Refining Co.,	Pekin, Ill.,	Pekin gluten feed,	27.7	3.5
187	Indianapolis Hominy Mills,	Indianapolis, Ind.,	Hominy feed,	11 62	8 48

200	Kellogg, Spencer,	Buffalo,	"S K" oil meal,	35 94	5.04
185	Kelloggs & Miller,	Amsterdam,	Linseed oil meal, O. P.,	36.7	7.83
191	Kentucky Milling Co., The	Henderson, Ky.,	"Jersey" mixed feed,	11.56	3.65
219	Knickerbocker Milling and Grain Co.,	Albany,	Champion feed,	9.92	4.01
231	Lapham & Parks,	Glens Falls,	Common feed,	7.5	3.5
244	Lowell Fertilizer Co.,	Boston, Mass.,	Bone and meat meal,	50—60	10—15
264	Manitoba Mills Co.,	Cleveland, O.,	Mazie feed,	26.24	7.06
181	Mann Bros. Co., The	Buffalo,	Linseed oil meal.,	35.15	7.05
212	McCoy & Best,	Peekskill,	Evap. bone and meat meal,	41.4	19.75
242	Merchants Distilling Co.,	Terre Haute, Ind.,	Merchants feed,	31.3-35.0	12.7-12.9
203	Midland Linseed Oil Co.,	Minneapolis, Minn.,	Midland,	32.5-37.5	5.5-8.5
251	Mueller, E. P.,	Milwaukee, Wis.,	Brewer's dried grains,	24.86	5.69
	" "	" "	Barley sprouts,	26.25	1.01
235	Nester, S. K.,	Geneva,	Malt sprouts,	25.0	2.0
272	New York Glucose Co.,	New York,	Globe gluten feed	27.0	3.38
257	Newport Milling Co.,	Newport, Ind.,	Hominy feed,	13.3	8 4
189	Norton & Co.,	Lockport, Ill.,	Standard oat feed,	5.5	4.0
260	" "	" "	Anchor corn and oat feed,	9.5	4.5
217	Oliver & Bolender,	Olean,	Chop feed,	8 58	4.86
227	Oneonta Milling Co.,	Oneonta,	Corn and oat provender,	8.75	3 50
	" " "	"	Monarch horse feed,	13.0	5 75
	" " "	"	"Arrow" corn and oat feed,	9.0	3.75
263	" " "	"	Special gluten,	14.0	4 0
206	Patent Cereals Co., The	Geneva,	Hominy feed.	11.46	9.3
201	Pfeffer Milling Co.,	Lebanon, Ill.,	P. M. Co's. bulk hominy feed,	11.57	9 93
241	Pope, Chas., Glucose Co.	Chicago, Ill.,	Cream gluten meal,	38—40	2.5-3.0
	" " "	" "	Corn bran,	9—10	1 5-2 0
204	Pratt Cereal Mill Co.,	Decatur, Ill.,	Ground hominy feed,	11.83	9 18
262	Rankin, M. G., & Co.,	Milwaukee, Wis.,	Jersey malt sprouts,	25.0	2 5
266	" " "	" "	Durham dried grains	25 0	7 0
228	Romaine, DeWitt,	New York,	Boiled beef and bone,	45.0	15.0
268	Rudolph & Huber,	Poughkeepsie,	Star five cent horse food,	10.75	5.4

TABLE I.—*Concluded.*

License number.	Manufacturer or jobber.		Name of feed.	Guaranteed.	
	Name.	Address.		Protein.	Fat.
				Per ct.	*Per ct.*
188	Shel abarger Mill and Elevator Co.,	Decatur, Ill.,	Shellabarger's hominy feed,	11.14	9.02
250	Smith, A. V.,	Marcellus Falls,	Barley feed,	14.8	3.4
265	Stanton, H. M.,	Schenectady,	Ground scraps,	50.0	9.0
226	Staples, A. S.,	Rondout,	Arcade mills mixed feed,	10.42	5 86
224	Streeter, L. L., & Sons,	Johnstown,	Common feed,	8.78	5 23
182	Suffern, Hunt & Co.,	Decatur, Ill.,	Hominy feed,	11.02	7.84
237	Terwilliger, C. A.,	Niagara Falls,	Niagara chop,	10.42	4.83
194	Toledo Elevator Co., The	Toledo, O.,	Star brand feed,	8.85	5.83
195	" " "	" "	Hominy feed,	10.93	7.05
207	Union Linseed Co.,	Troy,	Cow brand oil meal,	22.09	6.32
210	U. S. Frumentum Co.,	Detroit, Mich.,	Frumentum hominy feed,	11.63	8 66
225	U. S. Sugar Refinery,	Chicago, Ill.,	Waukegan gluten feed,	27.38	3.39
229	Victor Mills,	Springville,	Golden chop,	9.17	5.84
256	Wallace, L. R.,	Middletown,	Mapes balanced ration for poultry,	14.0	4.5
254	Waller, A., & Co.,	Henderson, Ky.,	Blue grass mixed feed,	12 59	3.19
245	Wright, M. M., & Co.,	Danville, Ill.,	Wright's hominy feed,	10.93	8.0

The list of licensed brands may be classified as follows:

Cottonseed meal...	3 brands.	Hominy feed.....	16 brands.
Linseed meal.....	8 "	Corn bran.....	2 "
Gluten meal.....	4 "	Meat and bone meal	15 "
Gluten feed.....	7 "	Proprietary or mixed feeds	62 "
Germ oil meal.....	1 "		
Distillery grains....	5 "	Total	129 brands.
Brewer's grains....	2 "		
Malt sprouts.....	4 "		

ANALYSES OF SAMPLES COLLECTED DURING 1902.

The following table (II) shows the analyses of the samples of feeding stuffs collected in various parts of the State during 1902. The percentages of protein and fat found are given for comparison with the guarantees. In the case of those samples where it was reasonable to suspect the presence of oat hulls or some other inferior ingredients, the proportion of crude fiber was determined. As a matter of interest the retail selling prices are given as stated by the dealers from whose stock the samples were taken.

TABLE II.—SAMPLES OF FEEDING

Collection No.	Name and address of manufacturer or jobber.	Sampled at
424	American Cotton Oil Co , Huntsville, Ala.,	Poughkeepsie, W. S. Reynolds & Co.,
473	Chapin & Co., Buffalo.	Kingston. Wilson & Wolven,
412	Humphreys, Goodwin & Co , Memphis, Tenn.,	Albany. Geo. Drew.
503	" " " " "	Utica. G. W. Head Co.,
478	Leder Oil Co., Demopolis, Ala.,	Kingston. Everett & Treadwell,
399	Robinson. Geo B., Jr., New York,	Albany. Barber & Bennett,
445	Travis, W. S., New York,	New York, Fisk. Clark & Allen.
455	" " " "	Long Island City, Thos. Morgan Mill,
493	Williams, E. B., & Co., Memphis, Tenn.,	Amsterdam, W. N. Carpenter,
387	American Linseed Co., Chicago, Ill.,	Albany, F. Reuter,
420	" " " " "	Poughkeepsie, Wm. S. Reynolds & Co.,
458	" " " " "	New York. W. H. Payne & Son ,
504	Falls, J. C., & Co., Memphis, Tenn.,	Utica, G. W. Head Co.,
398	Kelloggs & Miller, Amsterdam,	Albany. Barber & Bennett
451	" " "	New York John E. Connelly & Co.,
490	" " "	Amsterdam. Kelloggs & Miller,
523	Mann Bros., Buffalo,	Naples, J E. Lyon,
404	Midland Linseed Co., Minneapolis, Minn.,	Albany, Mahar Bros.,
444	" " " " "	New York. Fisk. Clark & Allen,
481	Union Linseed Co., Troy,	Rondout, A. S. Staples,
475	Glucose Sugar Refining Co., Chicago, Ill.,	Kingston. Wilson & Wolven,
518	Fuller-Page Co , Syracuse,	Philadelphia, Wilson Bros.,
495	Dean, C. R., Owego,	Amsterdam, W. N. Carpenter,
403	Glucose Sugar Refining Co., Chicago, Ill.,	Albany, H. S Bell & Co.,
411	Illinois Sugar Refining Co., Pekin, Ill.,	Albany. Geo. Drew,
500	Sull-Franke Grain Co., Waukegan, Ill.,	Utica, Ogden & Clark,
301	National Starch Co , Glen Cove. N. J.,	Albany. J. H Peters' Sons,
483	U. S Sugar Refinery, Waukegan, Ill.,	Rondout. A. S. Staples,
474	Glucose Sugar Refining Co., Chicago, Ill.,	Kingston, Wilson & Wolven,
498	Biles Co., The J. W., Cincinnati, O.,	Utica, Ogden & Clark,
413	Beakes, Albany,	Albany. Geo. Drew.
468	Chapin & Co., Buffalo,	Kingston, Wilson & Wolven,
487	Clapp, A. J., New York,	Rondout A. S. Staples.
499	Cox & Co., Boston, Mass.,	Utica, Ogden & Clarke,
414	Evans & Sons, Hudson,	Hudson, Evans & Sons,
430	Nester. S. K., Geneva.	Peekskill, C. S. Horton & Sons,
426	Reynolds & Co., Poughkeepsie,	Peekskill, G. W. Bagley & Son,
419	Robinson, G. B., Jr., New York,	Hudson, Dunning & Bogardus,

STUFFS COLLECTED DURING 1902.

Collection No.	Name of feed.	Protein. Found.	Protein. Guaranteed.	Fat. Found.	Fat. Guaranteed.	Crude fiber found.	Price per ton.
		Per ct.	*Per ct.*	*Per ct.*	*Per ct.*		
424	Cotton seed meal, prime,	44 7	43.0	10.9	9.0		$30.00
473	" " " green diamond,	45.1	43.0	9 3	9.0		28 00
412	1 " " " Dixie brand,	46 5	43 0	12.1	9.0		30.00
503	1 " " " " "	45.3	43.0	7.9	9.0		28 00
478	1 " " "	43.8	43 0	7.1	9 0		30.00
399	1 " " "	40.7	43.0	11.3	9 0		
445	1 " " "	49.1		10 5			30.00
455	1 " " "	45.1		9.4			32.00
493	1 " " " daisy brand,	46 7	43.0	9.9	9.0		32.00
387	Oil meal, O. P.,	37 8	32-36	8.7	5-7		34 00
420	" " "	36.4	"	8.6	"		35.00
458	" " "	38.8	"	6.6	"		34.00
504	1 Linseed meal, square,	29 8	33 5	6.4	7 5		30 00
398	Oil meal, pure, O. P.,	37.5	36 70	8.4	7 83		
451	" " " "	38.1	"	9.1	"		37 00
490	" " " "	37.4	"	8 6	"		29.00
523	" " " "	38 8	35.15	7.0	7.05		
404	Linseed cake, ground, O. P.,	36.9	32.5-37.5	7.7	5.5-8.5		
444	" meal, Midland,	36.7	"	9.2	"		34.00
481	Oil meal, cow brand,	31 6	22.09	6.6	6.32		36.00
475	Gluten meal.	38.1	38.0	2.9	4.0		29.00
518	Gluten stock feed, Manhattan	39.8	36.22	11.5	11.70		27.00
495	Gluten feed, Buffalo,	28.7	28.0	3.5	4.0		26.00
403	" " "	29.3	"	3.7	"		27.00
411	" " Pekin,	28.1	27.7	5.0	3.5		28.00
500	1 " "	26.8	27.38	4.7	3.39		25.00
391	1 " "	24.1	22.9	2.7	2.3		28.00
483	" " Waukegan,	27.5	27.38	2.9	3.39		26.00
474	Germ oil meal,	25.5	25.0	8.7	10.0		
498	Distiller's dried grains, Biles' XXXX,	38.6	33.0	13.7	11.0		25.00
413	1 Barley sprouts,	28.2		4.4			22.00
468	1 Malt "	26.6		1.6			22.00
487	1 " "	28.6		2.0			22.00
499	1 " "	29.1		2.3			
414	" "	32.5	28.44	4.1	0.46		20.00
430	" "	28.4	25.0	2.8	2.0		20.00
426	1 " "	28.1	23.48	2 7	1.68		20.00
419	1 " "	29.4		4.8			22.00

Collection No.	Name and address of manufacturer or jobber.	Sampled at
402	Banner Food Co., New York,	Albany, H. S. Bell & Co.,
492	Barwell, J. W., Waukegan, Ill.,	Amsterdam, W. N. Carpenter,
501	" " " "	Utica, Ogden & Clark,
405	H. O. Company, The, Buffalo,	Albany, Mahar Bros..
390	" " " "	Albany, J. H. Peters' Sons,
432	" " " "	Peekskill, C. S. Horton & Sons,
407	American Cereal Co., The, Chicago, Ill.,	Albany, Geo. Drew,
418	" " " " " "	Hudson, Downing & Bogardus,
429	" " " " " "	Poughkeepsie, G. W. Bagley & Son,
401	Kenwood Mill, Kenwood,	Albany, H. S. Bell & Co.,
520	American Cereal Co., The, Chicago, Ill.	Almond, C. W. Sisson,
509	Amos, Jacob, Syracuse,	Syracuse, Jacob Amos,
441	Hecker-Jones Mill Co., New York,	NewYork, Hecker-Jones Mill Co.,
409	Imperial Mills Co., Duluth, Minn.,	Albany, Geo. Drew,
472	" " " " "	Kingston, Wilson & Wolven,
506	" " " " "	Utica, G. W. Head Co.,
408	Stone, R. C., Milling Co , Springfield, Mo.,	Albany, Geo, Drew,
479	Ustman, Wm., Mill Co., Superior, Wis.,	Kingston, Everett & Treadwell,
446	" " " " " "	New York, Fisk, Clark & Allen,
460	Long Dock Mill & Elevator Co., Jersey City, N. J.	New York, Long Dock Mill & Elevator Co.,
386	Pillsbury, Minneapolis, Minn.,	Albany, F. Reuter,
466	Reed, I. H , New York,	Brooklyn, Brooklyn Elevator & Mill Co.,
452	Clapp, A. Jerome, New York,	New York, J. E. Connelly,
449	" " " "	" " H. Ingersoll,
480	M. & M. M. Co., Rochester,	Kingston, Everett & Treadwell,
507	Voight Mill Co., Grand Rapids, Mich.,	Utica, G. W. Head & Co.,
512	Decatur Cereal Mill Co., Decatur, Ill.,	Saugerties, F. G. Phelps,
427	Indianapolis Hominy Mills, Indianapolis, Ind.,	Peekskill, G. W. Bagley & Son,
431	" " " " "	" C. S. Horton & Sons,
417	Miami Maize Co., The, Toledo, O.,	Hudson, Downing & Bogardus,
421	" " " " "	Poughkeepsie, W. S. Reynolds & Co.,
471	" " " " "	Kingston, Wilson & Wolven,
485	Patent Cereals Co., The, Geneva,	Rondout, A. S. Staples,
456	Payne, W. H., & Son, New York,	New York, W. H. Payne & Son,
462	" " " "	" " Titus, Wells & Willets,
511	Reynolds & Co., Poughkeepsie,	West Coxsackie, Levi Bedell,
470	Shellabarger Mill & Elevator Co , Decatur, Ill.,	Kingston, Wilson & Wolven,
467	Simpson, Hendee & Co., New York,	" C. F. Gray,
435	Cerealine Mfg. Co., Indianapolis, Ind.,	Peekskill, Geo. F. Cooley,
465	Brooklyn Elevator & Mill Co., Brooklyn,	Brooklyn, Brooklyn Elevator & Mill 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*	
402	[1] Banner stock food,	29.1	25.0	6.6	5.0		$160 00
492	[1] Blatchford's sugar and oil meal,	30.1	28.25	10 0	11.25		70 00
501	Blatchford's calf meal,	25 9	26.0	4.6	5.0		70 00
405	H. O. Co.'s dairy feed,	19.9	18.0	4.6	4 5	11.4	30 00
390	" " horse feed,	14.3	12.0	5.6	4.5	8.9	30 00
432	" " " "	13.9	12.0	5 2	4 5	8.8	31 00
407	Quaker dairy feed,	15.6	14.0	3 8	3.5	15.1	26 00
418	" " "	15.2	14 0	5.6	3.5	15 2	25 00
429	" " "	18 6	14.0	5.8	3.5	13.7	24 00
401	Rye feed,	16.8		3.5			24 00
520	Wheat feed, Buckeye,	20.0	17.75	4.8	4.70		
509	Mixed feed, bran, middlings and ships,	19.2		5.2		7 2	17 00
441	" " " and middlings,	21.1		5 5		7.1	26 00
409	" " "Boston," bran, middlings and low-grade flour,	19.7		5.3		7.0	26 00
472	Mixed feed, "Boston," bran, middlings and low-grade flour,	19.6		5.0			25 00
506	Mixed feed, "Boston," bran, middlings and low-grade flour,	19.9		5.0		6.9	24 00
408	Mixed feed, bran and middlings,	19.6		4.2		6.6	26 00
479	" " " "	20.1		5.3			25 00
446	Middlings, No. 2 flour,	18 3		2.2			28 00
460	" " 1	17.3		3.4			26 66
386	" B,	20.1		6.3			26 00
466	"	20.9		4 6			26 00
452	Bran, Tuxedo,	16 2		4 4			25.00
449	"	16.9		4 4			26 00
480	"	19.1		4.7			25.00
507	" winter wheat,	17.3		4.1		7.4	24 00
512	[1] Hominy feed,	12.6	11 83	8.3	9.18	4.5	27.00
427	" "	11.9	11.62	9 2	8.48	4.4	29 00
431	" "	11.2	11.62	7 3	8 48	4 3	27 00
417	" "	10.9	10.93	8 6	7 05	7.5	29.00
421	" "	10.8	10.93	9.5	7 05	7 9	29 00
471	" "	11 1	10 93	6 8	7.05	6 9	28.00
485	" "	12.7	11 46	9 0	9 3	4.3	26.00
456	1 " "	12.4		7.7		4 1	
462	1 " "	12.2		8.5		4.4	25.00
511	1 " "	13.4		10 4		4.2	27.00
470	" "	11.3	11.14	6.6	9.02	8.0	28.00
467	1 " "	12 7		9.2		4.2	28 00
435	Cerealine feed No. 2.	12.6	10.82	8.1	8.03	2 4	30.00
465	Corn meal,	10.5		3.8			25.00

Collection No.	Name and address of manufacturer or jobber.	Sampled at
494	Husted Mill & Elevator Co., Buffalo,	Amsterdam, McConnell, Cramer & Miller,
448	Long Dock Mill & Elevator Co., Jersey City N. J.,	New York, H. Ingersoll,
461	" " " " " " " "	" " Long Dock Mill & Elevator Co.,
488	Husted Mill and Elevator Co., Buffalo,	Amsterdam, Hill & Watson.
459	Long Dock Mill & Elevator Co., Jersey City, N. J.,	New York, Long Dock Mill and Elevator Co ,
385	American Cereal Co., The, Chicago, Ill.,	Albany, F. Reuter,
388	" " " " " "	" J. H Peters' Sons,
524	" " " " " "	Almond, C. W. Sisson,
397	Barber & Bennett, Albany,	Albany, Barber & Bennett,
464	Brooklyn Elevator and Milling Co., Brooklyn,	Brooklyn, Brooklyn Elevator and Milling Co.,
396	Coonley, Geo. W., Albany,	Albany, Geo. W. Coonley,
395	Diamond Mills, Buffalo,	" Leonard & Co.,
521	" " "	Naples, J. E. Lyon,
409	Elsworth & Co., Buffalo,	Kingston, Wilson & Wolven,
497	" " "	Utica, Ogden & Clark,
442	Fisk, Clark & Allen, New York,	New York, Fisk, Clark & Allen,
443	" " " "	" " " "
415	Great Western Cereal Co., The, Chicago, Ill.,	Hudson, Downing & Bogardus,
416	" " " " " " "	" " "
505	Head Co., G. W., Utica,	Utica, G. W. Head Co.,
389	Heath, H. R , & Son, Fort Dodge, Ia.,	Albany, J. H. Peters' Sons,
516	Herrick & Son, Watertown,	Watertown, Herrick & Son,
453	Morgan, Thos., Mill, Long Island City,	Long Island City, Thos. Morgan Mill,
502	Ogden & Clark. Utica,	Utica, Ogden & Clark,
423	Oliver, David, Joliet, Ill.,	Poughkeepsie, W. S. Reynolds & Co.,
519	Wilson Bros., Philadelphia,	Philadelphia, Wilson Bros.,
514	Yousey, C. F., & Co., Lowville,	Lowville, C. F. Yousey & Co.,
400	Oneonta Milling Co , Oneonta,	Albany, H. S. Bell & Co.,
392	" " " "	" J. H. Peters' Sons,
477	Everett & Treadwell, Kingston,	Kingston, Everett & Treadwell,
508	Amos, Jacob, Syracuse,	Syracuse, Jacob Amos,
517	Herrick & Son, Watertown,	Watertown, Herrick & Son,
484	Staples, A. S., Rondout,	Rondout, A. S Staples,
510	Webster, G. W., & Son, Cortland,	Cortland, G. W. Webster & Son,
425	Bagley, G. W., & Son, Peekskill,	Peekskill, G. W. Bagley & Son,
457	Payne, W. H., & Son, New York,	New York, W. H. Payne & Son,
513	Yousey, C. F., & Co., Lowville,	Lowville, C. F. Yousey & Co ,
394	American Cereal Co., Chicago, Ill.,	Albany, Righter & Son,
410	" " " " "	" Geo. Drew,
463	Brooklyn Elevator & Milling Co., Brooklyn,	Brooklyn, Brooklyn Elevator & Milling Co.,
476	Clapp, A. J., New York,	Kingston, Wilson & Wolven,
486	Great Western Cereal Co., Chicago, Ill.,	Rondout, A. S. Staples,
447	Long Dock Mill & Elevator Co. Jersey City, N. J.,	New York. H. Ingersoll,
454	Morgan, Thos., Mill, Long Island City,	Long Island City, Thos. Morgan, Mill.

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.*	
494	Corn meal,	10.5		3.2		2.6	$28.00
448	" "	10 6		4.0			30 00
461	" "	10.3		3 7			26 00
488	Corn and oats, half and half,	12.1		3.6		3.4	32.00
459	" "	12.5		5.1		4.6	28.00
385	Corn and oat feed, Victor,	10.9	9.0	5.1	4.0	11.7	27.00
388	" " " "	11.1	9.0	4.6	4.0	9.4	27.00
524	" " " "	10.8	9.0	4.5	4.0	10.7	
397	1 " " "	10.2		3.4		10.0	28.00
464	" " "	12.4		4.0		5.4	29.00
396	1 " " "	11.9		3.8		7.8	28.00
395	" " "	9.6	9.44	4.2	4.78	10.4	27.00
521	" " "	9.3	9.44	3.5	4.78	12.1	
469	" " " De-fi,	10.1	8.3	3.0	3.0	13.4	24.00
497	" " " "	10.2	8.3	3.4	3.0		25.00
442	" " " No. 1,	11.9		3.8		5.1	30.00
443	" " " No. 2,	9.9		3.6		5.3	29.00
415	" " " Durham,	8.1	9.46	3.3	3.92	14.5	28.00
416	" " " Bo-s,	7.8	8.27	3.3	3.64	15.9	28.00
505	" " "	10.9		4.4		4.2	30.00
389	1 " " " Yankee,	9.1	8.96	3.1	4.33	14.4	24.00
516	" " "	12.9		4.3		6.0	32.00
453	" " "	11.2		4.4		4.8	27.40
502	" " "	12.7		4.0		5.9	30.00
423	2 " " " Durham,	9.0	9.46	2.6	3.92	13.9	27.00
519	" " "	13.0		4.7		9.6	30.00
514	" " "	13.3		4.4		3.6	31.00
400	" " " chop feed,	8.7	9.0	4.6	3.75	15.7	28.00
392	" " " provender,	8.7	8.75	3.6	3.50	12.0	
477	Corn, oats and wheat feed.	13.0	11.5	4.2	3.5	7.1	28.00
508	1 Corn, oats and middlings,	12.1		2.8		4 7	26.00
517	1 " " " ships,	14 3		4.8		5.3	29 00
484	" " " rye,	13 1		3.6		4.5	32.00
510	" " " "	10.6		3.6		7.3	20.00
425	Corn, oats, rye, hominy and middlings,	16 9	12.44	4.7	4.65	4 7	29.00
457	1 " " hominy and oat hulls,	10.4		4.2		6.4	32.00
513	1 " bran and middlings,	15.2		4.4			26 00
394	1 Oat feed, X,	9 1	6 30	3 2	2 38	22.2	22 00
410	" " Vim,	8.0	7.5	2.4	2.75	23.5	20 00
463	" "	13.4		4.0		8.5	32.00
476	1 " " golden,	3.6		1.3		29 3	20.00
486	" " royal,	6 1	8 25	2.1	4.14	25.0	
447	" "	14 9		4.6		7 7	30.00
454	" "	13 1		5.6		8 4	34.40

Collection No.	Name and address of manufacturer or jobber.	Sampled at
439	Adikes, J. & T., Jamaica,	Jamaica, J. & T. Adikes,
496	Husted Mill & Elevator Co., Buffalo,	Amsterdam, McConell, Cramer & Miller,
393	Knickerbocker Milling Co., Albany,	Albany, Righter & Son
434	Murer, Alfred, Co., Milwaukee, Wis.,	Peekskill, Geo. F. Cooley,
491	Pillsbury-Washburne Flour Mills Co., Ltd., Minneapolis, Minn.,	Amsterdam, W. N. Carpenter,
482	Staples, A. S., Rondout,	Rondout, A. S. Staples,
515	Waller, A., & Co., Henderson, Ky.,	Lowville, Louis Bush,
377	American Cereal Co., Chicago, Ill.,	New York, Excelsior Wire & Poultry Supply Co ,
383	" " " " "	New York, Cypher Incubator Co.,
376	H. O. Company, The, Buffalo,	" Excelsior Wire & Poultry Supply Co.,
406	" " " "	Albany, Mahar Bros.,
380	Pineland Incubator Co , Jamesburg, N. J.,	New York, Excelsior Wire & Poultry Supply Co.,
440	Harding, Geo. L., Binghamton.	New York, Cornell Incubator Mfg. Co.,
384	Pratt Food Co., Philadelphia, Pa.,	New York, Cypher Incubator Co.,
382	Spratt's Patent, (Am.) Ltd., Newark, N. J.,	" " " " " "
381	Star Incubator Co , Bound Brook, N. J.,	" " Star Incubator Co.,
379	Bowker Fertilizer Co., New York,	New York, Excelsior Wire & Poultry Supply Co.,
436	Darling & Co., Chicago, Ill ,	New York, Cypher Incubator Co.,
437	" " " "	" " " " "
438	Harding, Geo. L , Binghamton,	" " Cornell Incubator Mfg. Co.,
378	Smith & Romaine, New York,	New York, Excelsior Wire & Poultry Supply 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.*	
439	Ground feed,	9.5	8.75	3.5	3.00		$18 00
496	Chop feed, B,	7.0	8.28	2.2	2.75	15.8	27 00
393	Champion feed,	12.5	9.92	3 9	4.01	8.5	26.00
434	[1] Dick "	16 4	14-0	4.6	3 0	9.9	30.00
491	Dairy "	8.1	7.09	2.6	2.85	23.0	21.00
482	Arcade mixed feed, hominy, oat hulls and royal oat feed,	8.3	10.42	4.3	5.86	15 3	25.00
515	Mixed feed, blue grass, wheat bran and ground corn cobs,	14.8	12.59	4.1	3.19	11.5	23.00
377	Poultry food, American,	15.3	14.0	6 7	4.5	4.7	30.00
383	" " "	15 2	14.0	6.5	4.5	4.8	40 00
376	" " H. O.,	19 9	17.0	6 3	5.5	4.6	35.00
406	" " "	20.8	17.0	5.3	5.5	4 1	40.00
380	[1] Chick food, Fidelity,	15.6	20.47	3 9	3 68	2.5	55.00
440	" " Baby,	16.5	15.00	7 5	7.75	2 5	50.00
384	[1] Poultry food, Pratt's,	16.8		7.9		7 7	
382	1 " " Spratt's patent,	24.4		3 2		1.5	120.00
381	1 " " Star, morning mash,	8 8		1 6		2.4	25 00
379	Animal meal,	39.8	30.0	9.7	5 0		35.00
436	Beef scraps, ground,	65.2	55-65	15.7	15-20		40.00
437	" meal,	64 6	55-65	10 7	10-15		40 00
438	Meat meal,	72 2	49.0	15.8	19 0		45.00
378	[3] Boiled beef and bone,	49 4	45 0	17 3	15.0		34.00

[1] Not licensed in this State in 1902.
[2] Licensed by the Great Western Cereal Co.
[3] " " De Witt Romaine.

The samples analyzed may be classified as follows:

TABLE III.—CLASSIFICATION OF SAMPLES ANALYZED.

	Samples.	Brands.	Samples unlicensed goods.
	No.	*No.*	*No.*
Cottonseed meal	9	7	5
Linseed meal	11	6	1
Gluten meal	2	2	—
Gluten feed	6	5	2
Germ oil meal	1	1	—
Distillery grains	1	1	—
Malt sprouts	8	8	6
Hominy feed	13	19	4
Mixed offals (bran and middlings)	17	5	—
Ground grains	6	5	—
Meat and bone meal	5	5	—
Proprietary or mixed feeds	64	54	16
Total	143	118	34

COMMENTS.

The previous table shows the following range of prices as stated by the retail dealers:

Cottonseed meal	$28–$32	per ton.
Linseed meal	29– 36	" "
Gluten meal	27– 29	" "
Gluten feed	25– 28	" "
Malt sprouts	20– 22	" "
Hominy feeds	26– 30	" "
Wheat offals	17– 28	" "
Meat and bone meal	34– 45	" "
Proprietary or mixed feeds	18– 32	" "

Although the list shows a large number of samples of unlicensed goods, almost half of the number falls upon the proprietary or mixed goods. More unlicensed samples of cottonseed meal, malt sprouts and hominy feeds seem to have been found in our markets than in the two former years.

It is gratifying to note that the discrepancies between the guarantees and the actual composition of the samples as analyzed are becoming less numerous from year to year. This may readily be seen from the following list:

TABLE IV.—SAMPLES FALLING BELOW GUARANTEES.

	In protein.	In fat.
	Per ct.	*Per ct.*
1900	50	30
1901	31	23
1902	11	21

Most of the discrepancies, during the past season, fall upon the unlicensed and proprietary goods, nearly all of the standard feeds being as good as indicated by the guarantee, in many cases even exceeding it.

As repeatedly shown in former bulletins, the sale and use as adulterants of such materials as oat hulls and corn cobs are a serious menace not only to the commercial reputation of the feeding stuff trade, but to the farmer's pocketbook. The attention of consumers is emphatically directed to certain brands of goods included in the above list of analyses.

A word of explanation, although a repetition of previous statements, is given in this connection. The percentage of crude fiber in oats is shown by tables of analyses to vary from 1.5 per ct. to 12.9 per ct., the average being 9.5 per ct., and in dent corn from 0.9 per ct. to 4.8 per ct., with an average of 2.2 per ct. If, then, a mixture is made of average corn and oats in equal parts, the percentage of fiber should approximate 5.8 per ct. If two-thirds corn and one-third oats, the average percentage of fiber would be 4.6 per ct. When, therefore, a mixture supposedly corn and oats, and which actually contains a considerable proportion of corn, shows 10 per ct. of fiber and upwards, it is reasonable to conclude that oat hulls or very inferior oats are present. Another indication of the presence of oat hulls in so-called corn and oat mixtures is a percentage of protein as low as 9 per ct. or below. To be sure some

manufacturers are shrewd enough to introduce into their compounded goods enough of some highly nitrogenous material to bring the proportion of protein up to or above what pure corn and oats would contain, but this expedient in no way increases the value of the inferior ingredients present. The percentages of protein and fat in a feeding stuff, as so often urged, are only a partial measure of value. *The character of the carbohydrate portion must be considered*, and when oat hulls are present this part of the feed becomes more or less degraded.

The same line of reasoning may be applied to other feeding stuffs. Pure hominy feeds, according to several analyses made in the laboratory of this Station, contain less than 5 per ct. of fiber. It is noticeable that the samples of hominy feed shown in the foregoing table appear to be divided into classes, one containing the normal proportion of fiber, viz.: 4.1 per ct. to 4.5 per ct., and another in which the fiber varies from 6.9 per ct. to 8.0 per ct. The latter samples are somewhat inferior in appearance and show an abnormal proportion of fibrous material.

There is being sold in the State a class of goods made up chiefly of wheat bran, but containing an adulterant which in certain instances is corn cobs or some material equally inferior. To the uninitiated such mixtures appear to be pure wheat bran. It is significant, however, that these goods are sold under proprietary names and that the guarantee for protein is less than what pure bran contains. Buyers should be on the watch for commodities of this class.

The following table shows the samples to which it is well to apply the above considerations:

TABLE V.—BRANDS NEEDING SPECIAL CONSIDERATION.

No. sample	Manufacturer.	Protein.	Fat.	Fiber.
	HOMINY FEEDS:	*Per ct.*	*Per ct.*	*Per ct.*
417	The Miami Maize Co., Toledo, O.,	10.9	8.6	7.5
421	" " " " "	10.8	9 5	7.9
470	" " " " "	11.1	6 8	6 9
471	Shellabarger Mill & Elevator Co., Decatur, O.,	11 3	6.6	8 0
	PROPRIETARY AND MIXED FEEDS:			
385	Victor Corn and Oat Feed,	10 9	5 1	11.7
388	" " " " "	11 1	4.6	9 4
524	" " " " "	10.8	4.5	10.7
407	Quaker Dairy Feed,	15 6	3 8	15.1
418	" " "	15.2	5 6	15.2
429	" " "	18 6	5 8	13.7
469	De-Fi Corn and Oat Feed,	10.1	3.	10.4
415	Durham Feed,	8 1	3.3	14.5
423	" "	9.	2 6	13.9
416	Boss Feed,	7 8	3 3	15.9
389	Yankee Feed,	9.1	3.1	14.4
392	Corn and Oat Provender,	8 7	3.6	12.
400	" " " Chop Feed.	8.7	4 6	15.7
496	B Chop Feed,	7.	2 2	15.8
482	Arcade Mixed Feed,	8.3	4 3	15.3
394	X Oat Feed,	9.1	3.2	22 2
410	Vim Oat Feed,	8.	2.4	23.5
476	Golden Oat Feed,	3.6	1.3	29.3
486	Royal Oat Feed,	6.1	2.1	25.
491	Dairy Feed,	8 1	2.6	23.

The hominy feeds shown above are certainly of a somewhat different grade from those heretofore examined at the Station and known to be pure, but whether this is due to processes of manufacture or to the deliberate introduction of inferior material does not appear from the chemical analysis.

It cannot be affirmed that all of the corn and oat feeds to which especial attention is called contain oat hulls. Some certainly do, but in a few cases the high proportion of fiber may possibly be due to the use of light oats, though this seems doubtful. The last five feeds mentioned in the last table consist wholly or very largely of oat hulls, and considering their real value they are sold at ridiculously high prices.