

BULLETIN No. 303.

JULY, 1908

New York Agricultural Experiment Station.

GENEVA, N. Y.

INSPECTION OF FEEDING STUFFS



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Address all correspondence, not to individual members of the staff, but to the NEW YORK AGRICULTURAL EXPERIMENT STATION, GENEVA, N. Y.

The Bulletins published by the Station will be sent free to any farmer applying for them.

* Riverhead, N. Y.

† Died March 11, 1908.

BULLETIN No. 303.

INSPECTION OF FEEDING STUFFS

This bulletin gives the results of the analyses of samples of feeding stuffs collected by the Commissioner of Agriculture during the fall of 1907 and winter of 1907-8, and by him transmitted for analysis to the Director of the New York Agricultural Experiment Station, in accordance with the provisions of Article IX of the Agricultural Law. These analyses are published by the Director of the New York Agricultural Experiment Station in accordance with the provisions of Chapter 558, Laws of 1904.

The tables which follow show (1) the brands that are licensed for the year 1908 and (2) the results of the analyses of official samples as compared with the guarantees of composition filed or marked on the packages. With some of the samples of compounded feeds a determination of crude fibre was made as one means of learning whether inferior constituents were present.

Following the tables is given a discussion of what the inspection reveals as to the kinds and character of the feeding stuffs now offered for sale in this State.

CONCENTRATED COMMERCIAL FEEDING STUFFS LICENSED FOR 1908.

The following is a list of brands of commercial concentrated feeding stuffs licensed by the Commissioner of Agriculture for sale in the State of New York during the calendar year 1908, together with the names and addresses of the manufacturers or jobbers licensing them and the percentages of crude protein and crude fat which each is guaranteed to contain.

The total number of brands licensed is two hundred and eighty-two.

LIST OF BRANDS OF CONCENTRATED COMMERCIAL FEEDING STUFFS LICENSED
PRIOR TO MAY 7, 1908, TOGETHER WITH THE GUARANTEES OF SAME.

Name and address of manufacturer or jobber.	Brand or trade name.	Crude protein.	Crude fat.
		<i>Per ct.</i>	<i>Per ct.</i>
Acme Milling Co., Olean, N. Y.....	Acme Feed.....	8.75	4.20
J. & T. Adikes, Jamaica, N. Y.....	J. and T. Adikes Ground Feed.....	8.75	3.
W. & J. Agate, Pittsford, N. Y....	Malt Sprouts.....	24.	2.
Ajax Milling & Feed Co., New York, N. Y.....	Ajax Flakes.....	31.	12.
The American Cotton Oil Co., New York, N. Y.....	Choice Cotton Seed Meal..	41.	9.
American Hominy Co., Indianapolis, Ind.....	Hominy Feed.....	8.50	7.70
American Hominy Co., Indianapolis, Ind.....	Homco Feed.....	8.50	7.70
American Linseed Co., New York, N. Y.....	Cleveland Linseed Meal..	36.	1.
American Linseed Co., New York, N. Y.....	Old Process Oil Meal.....	32.	5.
American Malting Co., New York, N. Y.....	Malt Sprouts.....	25.	2.
American Milling Co., Philadelphia, Pa.....	Sucrene Dairy Feed.....	16.50	3.50
American Milling Co., Philadelphia, Pa.....	Sucrene Horse, Mule & Ox Feed.....	10.	3.
Ames-Burns Co., Jamestown, N. Y.	A. B. C. Cattle Feed.....	24.	8.
Ames-Burns Co., Jamestown, N. Y.	A. B. C. Hominy.....	11.	8.
Ames-Burns Co., Jamestown, N. Y.	Ever Ready Dairy Feed..	17.	3.
Anheuser Busch Brewing Associa- tion, St. Louis, Mo.....	Malt Sprouts.....	22.	2.
Archer Daniels Linseed Co., Minne- apolis, Minn.....	Old Process Ground Linseed Cake.....	33.	6.
The Armour Fertilizer Works, Chi- cago, Ill.....	Beef Scraps.....	55.	12.
The Armour Fertilizer Works, Chi- cago, Ill.....	Blood Meal.....	80.	20.
The Armour Fertilizer Works, Chi- cago, Ill.....	Feeding Bone Flour.....	23.	1.
The Armour Fertilizer Works, Chi- cago, Ill.....	Meat and Bone.....	42.	8.
The Armour Fertilizer Works, Chi- cago, Ill.....	Meat Meal.....	50.	10.
The Armour Fertilizer Works, Chi- cago, Ill.....	Poultry Bone.....	25.	50.
Atlantic Export Co. of Wisconsin, Milwaukee, Wis.....	Dried Brewers' Grains....	27.	7.

Name and address of manufacturer or jobber.	Brand or trade name.	Crude protein	Crude fat.
		<i>Per ct.</i>	<i>Per ct.</i>
Atlantic Export Co., of Wisconsin, Milwaukee, Wis.	Malt Sprouts.....	25.	1.50
Atlas Distillery Co., Peoria, Ill.	Manhattan Gluten Feed..	31.	12.
P. Ballantine & Sons, Newark, N. J.	Malt Sprouts.....	25.02	1.69
Barber Consolidated Feed Co., Buffalo, N. Y.	Economy Sugar Feed.....	15.	3.
Barber Consolidated Feed Co., Buffalo, N. Y.	High Flier Rye Grains....	20.	5.
Barber Consolidated Feed Co., Buffalo, N. Y.	Trojan Distillers Grains...	33.	12.
M. F. Baringer, Philadelphia, Pa.	Corn Bran.....	7.	5.
M. F. Baringer, Philadelphia, Pa.	Hominy Feed.....	9.	6.
Bartholomay Brewery Co., Rochester, N. Y.	Dried Brewers Grains.....	26.20	5.75
Bartholomay Brewery Co., Rochester, N. Y.	Malt Sprouts.....	26.60	1.06
Battle Creek Breakfast Food Co., Buffalo, N. Y.	Cooked Feed.....	12.	2.
Burr Bentley, Delanson, N. Y.	Fresh Cut Meat and Bone for Poultry.....	30.	5.
The Berg Company, Philadelphia, Pa.	Berg's 3 Medal Poultry Meat.....	50.	13.
The J. W. Biles Co., Cincinnati, O.	Biles Onex (X) Distillers Dried Grains.....	26.	10.
The J. W. Biles Co., Cincinnati, O.	Biles Twoex (XX) Grains..	30.	8.
The J. W. Biles Co., Cincinnati, O.	Biles Fourex (XXXX) Grains.....	33.	11.
The J. W. Biles Co., Cincinnati, O.	Union Grains, Biles Ready Rations.....	24.	7.
Julius Binz, Buffalo, N. Y.	Malt Sprouts.....	26.43	3.18
Blatchford's Calf Meal Factory, Waukegan, Ill.	Blatchford's Sugar and Flaxseed.....	27.	10.
Blatchford's Calf Meal Factory, Waukegan, Ill.	Blatchford's Calf Meal :	25.	5.
H. W. Bowes & Co., Bath, N. Y.	Mixed Feed.....	9.80	3.30
Bowker Fertilizer Co., New York, N. Y.	Bowker's Animal Meal....	30.	5.
Bowker Fertilizer Co., New York, N. Y.	Bowker's Beef Scraps.....	30.	20.
S. W. Bowne Co., New York, N. Y.	Ground Feed.....	10.75	3.25
H. E. Bridges & Co., Memphis, Tenn	Cotton Seed Meal.....	38.	8.
F. W. Brode & Co., Buffalo, N. Y.	Owl Brand Cotton Seed Meal.....	41.	7.
Buffalo Cereal Co., Buffalo, N. Y.	Buf-Ce-Co Chop Feed.....	7.50	3.50
Buffalo Cereal Co., Buffalo, N. Y.	Buf-Ce-Co Dairy Feed....	14.	4.
Buffalo Cereal Co., Buffalo, N. Y.	Buf-Ce-Co Creamery Feed..	20.	5.
Buffalo Cereal Co., Buffalo, N. Y.	Buf-Ce-Co Hominy Feed..	10.25	8.

Name and address of manufacturer or jobber.	Brand or trade name.	Crude protein.	Crude fat.
		<i>Per ct</i>	<i>Per ct.</i>
Buffalo Cereal Co., Buffalo, N. Y.	Buf-Ce-Co Horse Feed....	12.	4.50
Buffalo Cereal Co., Buffalo, N. Y.	Buf-Ce-Co Poultry Feed..	17.	5.50
Buffalo Cereal Co., Buffalo, N. Y.	Buf-Ce-Co Stock Feed....	9.	4.50
Henry V. Burns, Buffalo, N. Y.	Malt Sprouts.....	25.63	2.33
J. Andrew Cain, Versailles, Ky.	Hope Mills Mill Feed....	15.25	4.50
Chapin & Co., St. Louis, Mo.	Green Diamond Cottonseed Meal.....	41.	8.
Chapin & Co., Milwaukee, Wis.	Linseed Oil Meal.....	33.	5.
Clark & Mercer, Baldwinsville, N. Y.	Meal and Bran.....	12.05	4.15
The Cleveland Seed Co., Avon, N. Y.	Pea Meal.....	23.32	1.93
Clinton Sugar Refining Co., Clinton, Iowa.	Clinton Gluten Feed.....	23.	3.
Coakley & Meader, New York, N. Y.	Atlas Horse Feed.....	16.40	2.90
Columbia Distilling Co., Waterloo, N. Y.	Distiller's Dried Malt Grains.....	25.	8.
The Commercial Milling Co., Cleveland, O.	Dan's Corn and Oat Feed..	9.20	3.90
E. W. Conklin & Son, Binghamton, N. Y.	Arrow Chick Food.....	11.50	4.30
E. W. Conklin & Son, Binghamton, N. Y.	Arrow Egg Food.....	11.75	3.85
Continental Cereal Co., Peoria, Ill.	Atlas Gluten Meal.....	31.	12.
Continental Cereal Co., Peoria, Ill.	Continental Gluten Feed..	33.	14.
Corn Products Manufacturing Co., Chicago, Ill.	Buffalo Gluten Feed.....	23.	2.50
Corn Products Manufacturing Co., Chicago, Ill.	Crescent Gluten Feed....	23.	2.50
Corn Products Refining Co., New York, N. Y.	Diamond Gluten Feed....	23.	2.50
Corn Products Refining Co., New York, N. Y.	Globe Gluten Feed.....	26.	2.50
Corn Products Refining Co., New York, N. Y.	Tiger Gluten Feed.....	23.	2.50
The Corno Mills Co., East St. Louis, Ill.	Corno Horse and Mule Feed	10.	3.50
Geo. Craver's Sons, Binghamton, N. Y.	C. & S. Chick Food.....	10.	4.20
Geo. Craver's Sons, Binghamton, N. Y.	Gold Brand Poultry Food.	8.	2.
Crow & Williams, Ossining, N. Y.	Crow & Williams Mixed Feed.....	8.	3.
Cyphers Incubator Co., Buffalo, N. Y.	Cyphers Chick Food.....	10.54	3.40
Cyphers Incubator Co., Buffalo, N. Y.	Cyphers Developing Food.	10.90	3.
Cyphers Incubator Co., Buffalo, N. Y.	Cyphers Forcing Food.....	12.89	3.80

Name and address of manufacturer or jobber.	Brand or trade name.	Crude protein.	Crude fat.
		<i>Per ct.</i>	<i>Per ct.</i>
Cyphers Incubator Co., Buffalo, N. Y.	Cyphers Laying Food	17.31	3.80
Cyphers Incubator Co., Buffalo, N. Y.	Cyphers Scratching Food	11.05	3.
Darling & Company, Chicago, Ill.	Beef Meal	45.	10.
Darling & Company, Chicago, Ill.	Beef Scraps	55.	10.
Darling & Company, Chicago, Ill.	Chick Feed	8.	1.
Darling & Company, Chicago, Ill.	Forcing Food	15.	3.
Darling & Company, Chicago, Ill.	Granulated Bone	20.	2.
Darling & Company, Chicago, Ill.	Laying Food	18.	4.
Darling & Company, Chicago, Ill.	Raw Bone Meal	20.	2.
Darling & Company, Chicago, Ill.	Scratching Food	15.	3.
Decatur Cereal Co., Decatur, Ill.	Hominy Feed	11.02	7.70
Perl W. Devendorf, La Fargeville, N. Y.	Clover Meal	10.	1.
The Dewey Bros. Co., Blanchester, Ohio.	Dewey's Distillers Dried Grains	21.	6.
The Dewey Bros. Co., Blanchester, Ohio.	Dewey's Distillers Dried Grains	30.	8.
The Dewey Bros. Co., Blanchester, Ohio.	Dewey's Distillers Dried Grains	30.	15.
The Albert Dickinson Co., Chicago, Ill.	"Crescent" Chick Feed	10.50	3.
The Albert Dickinson Co., Chicago, Ill.	"Globe" Scratch Feed	10.50	3.
The Albert Dickinson Co., Chicago, Ill.	"King" Pigeon Feed	10.50	3.
The Albert Dickinson Co., Chicago, Ill.	"Pine Tree" Scratch Feed	10.50	3.
The Albert Dickinson Co., Chicago, Ill.	"Queen" Poultry Mash	10.50	3.
The Albert Dickinson Co., Chicago, Ill.	"Sun" Chick Starter	10.50	3.
Dock & Coal Co., Plattsburgh, N. Y.	Buttercup Dairy Feed	24.	8.
Dock & Coal Co., Plattsburgh, N. Y.	Dandy Corn and Oat Feed	9.	4.20
Dock & Coal Co., Plattsburgh, N. Y.	Tip Top Feed	10.	4.
Douglass & Co., Cedar Rapids, Iowa.	Cedar Rapids Gluten Feed	24.	4.
Deutsch & Sickert Co., Milwaukee, Wis.	Hominy Feed "Success"	11.	7.
Francis Duhne, Jr., Milwaukee, Wis.	Malt Sprouts	25.	2.
Francis Duhne, Jr., Milwaukee, Wis.	Molasses Milk Feed	15.	2.
R. D. Eaton Grain & Feed Co., Norwich, N. Y.	Eaton's Feeding Pea Meal	20.	1.46
R. D. Eaton Grain & Feed Co., Norwich, N. Y.	Eaton's Perfection Mash Mixture for Laying Fowls	20.	4.

Name and address of manufacturer or jobber.	Brand or trade name.	Crude protein.	Crude fat.
		<i>Per ct.</i>	<i>Per ct.</i>
J. & S. Emison Co., Baltic Mills, Vincennes, Ind.	Hominy Feed.....	11.67	9.27
Empire Grain & Elevator Co., Binghamton, N. Y.	Neverfail Chick Raiser....	11.	2.50
Empire Grain & Elevator Co., Binghamton, N. Y.	Neverfail Dairy Feed.....	20.	5.
Empire Grain & Elevator Co., Binghamton, N. Y.	Neverfail Egg Producer...	8.	3.
Empire Grain & Elevator Co., Binghamton, N. Y.	Pearl Hominy.....	10.12	7.52
Empire Mills, Olean, N. Y.	Empire Feed.....	7.63	2.97
Evans Milling Co., Indianapolis, Ind.	Hominy Feed.....	10.	8.
Everett & Treadwell Co., Kingston, N. Y.	C. O. & W. Feed.....	11.50	3.50
Farmers Feed Co., New York, N. Y.	Brewers Dried Grains....	26.30	7.60
Farmers Feed Co., New York, N. Y.	Malt Sprouts.....	29.90	2.20
Geo. M. Finn, Syracuse, N. Y.	Ground Beef & Bone Scrap		
	Chicken Feed.....	35.	15.
Flint Mill Co., Milwaukee, Wis.	Green Diamond Hominy...	10.	7.
Flint Mill Co., Milwaukee, Wis.	Marvel Malt Sprouts.....	22.	2.
Flint Mill Co., Milwaukee, Wis.	Saxon Barley Feed.....	10.	5.
Flint Mill Co., Milwaukee, Wis.	Triangle Calf Feed.....	22.	10.
J. A. Forrest Co., Dixon, Ill.	Flaxine.....	15.	15.
Gilbert & Nichols Co., Fulton, N. Y.	Fulton Dairy Feed.....	26.	6.
Geo. H. Gisel, Sole Agent, Buffalo, N. Y.	Stone Mills Mixed Feed.	10.	2.
Globe Elevator Co., Buffalo, N. Y.	International Oil Meal...	29.	4.
Globe Elevator Co., Buffalo, N. Y.	No. 1 Corn and Oat Chop..	7.	3.
Globe Elevator Co., Buffalo, N. Y.	Special Corn and Oat Feed.	5.	2.
F. W. Goeke & Co., St. Louis, Mo.	Holstein Sugar Feed.....	15.	3.
John Gorman, Buffalo, N. Y.	Boat Sweepings.....	5.	2.
D. H. Grandin, Jamestown, N. Y.	Eagle Corn and Oat Feed .	7.50	2.50
The Great Western Cereal Co., Chicago, Ill.	Boss Chop Feed.....	8.	3.50
The Great Western Cereal Co., Chicago, Ill.	Daisy Dairy Feed.....	14.	3.
The Great Western Cereal Co., Chicago, Ill.	Excelsior Chop Feed.....	8.	3.50
The Great Western Cereal Co., Chicago, Ill.	Gregson's Calf Meal.....	25.	5.
The Great Western Cereal Co., Chicago, Ill.	Maizefalfa Feed.....	12.	4.
The Great Western Cereal Co., Chicago, Ill.	Sterling Chick Feed.....	12.	3.50
The Great Western Cereal Co., Chicago, Ill.	Sterling Scratch Feed.....	12.	3.
The Great Western Cereal Co., Chicago, Ill.	Sterling Stock Feed.....	11.	4.

Name and address of manufacturer or jobber.	Brand or trade name.	Crude protein.	Crude fat.
		<i>Per ct.</i>	<i>Per ct.</i>
Harvey Seed Co., Buffalo, N. Y....	Harvey's Electric Poultry Food.....	12.	3.
W. H. Haskell & Co., Toledo, O....	Haskell's Stock Feed.....	8.	14.
W. H. Haskell & Co., Toledo O....	Hominy Meal.....	10.25	8.10
Hauenstein & Co., Buffalo, N. Y....	Old Process Linseed Meal..	33.50	6.99
Henry & Missert, Buffalo, N. Y....	B. S. Stock Food.....	11.	2.
Henry & Missert, Buffalo, N. Y....	Holstein Milk Food.....	14.	7.
The H-O Company, Buffalo, N. Y....	De-Fi Corn and Oat Feed..	8.	3.
The H-O Company, Buffalo, N. Y....	H-O Horse Feed	12.	4.50
The H-O Company, Buffalo, N. Y....	H-O Milk Feed.....	14.	4.
The H-O Company, Buffalo, N. Y....	H-O Poultry Feed.....	17.	5.50
The H-O Company, Buffalo, N. Y....	Jim Dandy Oat Feed.....	7.	2.75
The H-O Company, Buffalo, N. Y....	New England Stock Feed..	9.	4.
Hodgman Milling Co., Painted Post, N. Y.....	Corn and Oats Chop Feed..	9.69	3.88
Hoffman & Co., Syracuse, N. Y....	Brewers Dry Grains.....	23.	5.10
Hottel & Co., Milwaukee, Wis....	Pure Dried Distillers Grains	18.	6.
J. C. Hubinger Bros. Co., Keokuk, Iowa.....	K. K. K. Gluten Feed.....	24.50	.0275
Humphreys, Godwin & Co., Memphis, Tenn.....	Dixie Brand Cotton Seed Meal.....	41.	9.
The Hunter Bros. Milling Co., St. Louis, Mo.....	Cotton Seed Meal.....	41.	9.
The Hunter Bros. Milling Co., St. Louis, Mo.....	Hominy Feed.....	8.50	7.
Huron Milling Co., Harbor Beach, Mich.....	Jenk's Gluten Feed.....	27.	7.50
Husted Milling Co., Buffalo, N. Y....	Corn Bran.....	8.	4.
Husted Milling Co., Buffalo, N. Y....	Cottonseed Meal.....	35.	7.
Husted Milling Co., Buffalo, N. Y....	Eclipse Feed.....	9.	4.
Husted Milling Co., Buffalo, N. Y....	Hominy Feed.....	9.	4.
Husted Milling Co., Buffalo, N. Y....	Husted's Dairy Feed.....	18.	3.
Husted Milling Co., Buffalo, N. Y....	Husted's Forcing Mash....	19.	5.
Husted Milling Co., Buffalo, N. Y....	Husted's Horse Feed.....	12.	4.
Husted Milling Co., Buffalo, N. Y....	Husted's Laying Mash....	15.	3.
Husted Milling Co., Buffalo, N. Y....	Husted's Poultry Feed....	12.	4.
Husted Milling Co., Buffalo, N. Y....	Husted's Stock Feed.....	8.	4.
Husted Milling Co., Buffalo, N. Y....	Husted's Yellow Provender	7.	4.
Husted Milling Co., Buffalo, N. Y....	Monarch Chop Feed.....	7.50	3.50
Husted Milling Co., Buffalo, N. Y....	Monarch Dairy Feed.....	7.	3.
Hydraulic Milling Co., Buffalo, N. Y.	Standard Chop Feed.....	6.44	2.53
Indiana Milling Co., Terre Haute, Ind.....	Jersey Middlings.....	10.	2.
Indiana Milling Co., Terre Haute, Ind.....	Jersey Mixed Feed.....	10.	2.
The Illinois Seed Co., Chicago, Ill..	Phoenix Brand Poultry Food.....	10.50	3.

Name and address of manufacturer or jobber.	Brand or trade name.	Crude protein.	Crude fat.
		<i>Per ct.</i>	<i>Per ct.</i>
The Illinois Seed Co., Chicago, Ill..	Monitor Brand Chick Feed.	10.50	3.
The Illinois Seed Co., Chicago, Ill..	Reliance Brand Chick Feed	10.50	3.
Henry Jennings, Boston, Mass....	H. J. Flax Feed in 100-lb. Sacks	16.	14.
Johnson & Lyon, Oswego, N. Y.	Malt Sprouts.....	26.25	.70
Johnstown Dry Grains Co., Johnstown, Pa.....	Dried Brewers Grains	24.	6.71
The Kakiat Company, Suffern, N. Y.	Kakiat Horse Feed.....	12.50	4.25
John Kam Malting Co., Buffalo, N. Y.	Malt Sprouts.....	24.80	.51
Kelloggs & Miller, Amsterdam, N. Y.	Pure Oil Meal (Old Process)	36.70	7.83
Chas. A. Krause Milling Co., Milwaukee, Wis.....	Badger Dairy Feed	18.	4.50
Chas. A. Krause Milling Co., Milwaukee, Wis.....	Badger Stock Feed	10.	4.
Kreiner & Lehr, Buffalo, N. Y.	Malt Sprouts.....	26.12	1.56
The Larrowe Milling Co., New York, N. Y.	Dried Beet Pulp.....	8.50	.50
Lembeck & Betz Eagle Brewing Co., Watkins, N. Y.....	Malt Sprouts.....	27.56	1.47
Charles R. Lull, Milwaukee, Wis..	Ground Flax Flakes	15.	15.
The Mann Bros. Co., Buffalo, N. Y.	Oil Meal (Linseed).....	34.	6.
Matthews & Harrison, Kingston, N. Y.....	Arcade Mixed Feed.....	10.42	5.86
Merchants Distilling Co., Terre Haute, Ind.....	Merchant's High Grade Dairy Feed.....	31.	12.
Metzger Seed & Oil Co., Toledo, O.	Metzger's Seed & Oil Co.'s Oil Meal.....	30.	5.
Geo. J. Meyer Malting Co., Buffalo, N. Y.....	Malt Sprouts.....	20.82	1.15
Michigan Starch Co., Traverse City, Mich.....	Michigan Gluten Feed.....	25.	3.
The Miller's Product Co., Chicago, Ill.....	Cerecut.....	15.	8.
Miner Hillard Milling Co., Wilkes-Barre, Pa.....	Choice Steam Cooked Hominy Feed	10.	7.50
Henry C. Moffat, Buffalo, N. Y.	Malt Sprouts.....	24.50	.86
Geo. E. McCoy, Peekskill, N. Y....	Evaporated Bone and Meat Meal.....	41.40	19.75
C. H. McLaughlin, Niagara Falls, N. Y.....	Malt Sprouts.....	27.76	2.08
Neidlinger & Co., Oswego, N. Y.	Malt Sprouts.....	26.25	.70
Henry Neff, Salamanca, N. Y.	Seneca Chop	6.	2.
S. K. Nester, Geneva, N. Y.....	Malt Sprouts.....	25.	2.
Newburg Rendering Co., Newburg, N. Y.....	Animal Meal.....	35.	12.
North West Mills Co., Winona, Minn	Sugarota	18.	4.50

Name and address of manufacturer or jobber.	Brand or trade name.	Crude protein.	Crude fat.
		<i>Per ct.</i>	<i>Per ct.</i>
Olean Mills, Geo. Oliver, Prop., Olean, N. Y.	Chop Feed	7.	2.
Oneonta Milling Co., Buffalo, N. Y.	Arrow Corn and Oat Feed.	9.	3.75
Oneonta Milling Co., Buffalo, N. Y.	Corn and Oat Provender..	8.75	3.50
Oneonta Milling Co., Buffalo, N. Y.	Malt Sprouts	24.	1.
Oneonta Milling Co., Buffalo, N. Y.	Star Brand Extra Prime Cotton Seed Meal	30.	8.
Oneonta Milling Co., Buffalo, N. Y.	Susquehanna Hominy Chop	10.	7.
Oneonta Milling Co., Oneonta, N. Y.	Corn and Oat Provender..	8.75	3.50
Wm. Orr & Sons, Orr's Mills, N. Y.	Orr's Mixed Feed	7.50	2.
The Patent Cereals Co., Geneva, N. Y.	Hominy Feed	10.	7.
Pennsylvania Central Brewing Co., Scranton, Pa.	Dried Brewer's Grains	23.71	7.14
The Francis Perot's Sons Malting Co., Oswego, N. Y.	Malt Sprouts	27.25	1.67
Pfeffer Milling Co., Lebanon, Ill. .	Hominy Feed	10.	8.
Phelps & Sibley Co., Cuba, N. Y. .	P. & S. Feed	7.50	3.
Piel Bros. Starch Co., Indianapolis, Ind.	P. Bro. Gluten Feed	22.50	3.50
The Quaker Oats Co., Chicago, Ill. .	American Poultry Food ...	12.	3.50
The Quaker Oats Co., Chicago, Ill. .	Buckeye Mixed Feed	13.	4.
The Quaker Oats Co., Chicago, Ill. .	C. O. & B. Feed	10.	4.
The Quaker Oats Co., Chicago, Ill. .	"C" Feed	7.50	3.
The Quaker Oats Co., Chicago, Ill. .	Corn Feed Meal	8.50	3.
The Quaker Oats Co., Chicago, Ill. .	Maz-All Corn Feed	9.50	1.40
The Quaker Oats Co., Chicago, Ill. .	Schumacher Calf Meal ...	19.	8.
The Quaker Oats Co., Chicago, Ill. .	Schumacher Scratching Grains	10.50	3.
The Quaker Oats Co., Chicago, Ill. .	Schumacher Stock Feed ...	10.	4.
The Quaker Oats Co., Chicago, Ill. .	Victor Feed	7.50	3.
Ralston Purina Co., St. Louis, Mo. .	Anheuser Busch Dried Brewers Grains	25.	6.
Ralston Purina Co., St. Louis, Mo. .	Purina Mill Feed-Chick and Scratch Size	11.	3.60
M. G. Rankin & Co., Milwaukee, Wis.	Durham Flax Meal	17.	14.
M. G. Rankin & Co., Milwaukee, Wis.	Jersey Malt Sprouts	25.	2.
Red Wing Linseed Co., Red Wing, Minn.	Old Process Ground Oil Cake	30.	6.
J. S. Rich, Duluth, Minn.	Aerial Flax Seed	17.20	17.20
DeWitt Romaine, Jersey City, N. J.	Boiled Beef and Bone	45.	15.
J. Rosenthal, Dumont, N. J.	Ground Beef Scraps	58.19	16.12
Jos. Schlitz Brewing Co., Milwaukee, Wis.	Schlitz Purity Dried Grains	24.50	6.50
Schaefer & Sons Malting Co., Buf- falo, N. Y.	Malt Sprouts	26.75	2.35

Name and address of manufacturer or jobber.	Brand or trade name.	Crude protein.	Crude fat.
		<i>Per ct.</i>	<i>Per ct.</i>
Allen V. Smith, Marcellus Falls, N. Y.....	Allen V. Smith's Barley Feed.....	13.	3.
Spratts Patent (America) Limited, Newark, N. J.....	Spratt's Patent Chick Meal	20.	3.50
H. M. Stanton, Schenectady, N. Y.	Ground Beef Scraps.....	40.	15.
Stumpp & Walter Co., New York, N. Y.....	Quality Kind Beef Scraps.	50.	14.
The Sugarine Co., Chicago, Ill.....	Sugarine Dairy Feed.....	16.50	3.50
Suffern, Hunt & Co., Decatur, Ill..	Hominy Feed.....	11.02	7.70
Swift & Co., Chicago, Ill.....	Swift's Beef Scrap.....	55.	10.
Swift's Lowell Fertilizer Co., Boston, Mass.....	Swift's Lowell Bone and Meat Meal.....	40.	8.
Swift's Lowell Fertilizer Co., Boston, Mass.....	Swift's Lowell Beef Scraps.	40.	15.
Swift's Lowell Fertilizer Co., Boston, Mass.....	Swift's Lowell Cracked Bone	20.	5.
Swift's Lowell Fertilizer Co., Boston, Mass.....	Swift's Lowell Edible Bone Meal.....	20.	5.
Geo. A. Taylor & Co., Ogdensburg, N. Y.....	Geo. A. Taylor & Co. Stock Feed.....	8.	4.
Wm. Taylor, Lyons, N. Y.....	Malt Sprouts.....	24.	1.
Thompson & Mould, Goshen, N. Y.	Matchless Fancy Corn Bran	10.77	7.80
Thompson & Mould, Goshen, N. Y.	Special Hominy.....	10.	7.
The Toledo Elevator Co., Toledo, O.	Diamond Feed.....	10.	6.50
The Toledo Elevator Co., Toledo, O.	Star Feed.....	7.	6.50
Toledo Grain & Milling Co., Toledo, Ohio.....	C. O. and B. Chop.....	7.50	3.50
Toledo Grain & Milling Co., Toledo, Ohio.....	M. D. Chop.....	7.50	4.
Toledo Grain & Milling Co., Toledo, Ohio.....	No. 1 Yellow Chop.....	8.50	3.50
Toledo Grain & Milling Co., Toledo, Ohio.....	Ordinary Feed Meal.....	7.50	3.50
Union Starch & Refining Co., Edinburg, Ind.....	Union Gluten Feed.....	24.	3.
The United States Frumentum Co., Detroit, Mich.....	Frumentum Hominy Feed	10.77	9.06
Victor Mills, Springville, N. Y..	Corn, Oats and Barley Chop	7.	4.
C. W. Wagar & Co., Philadelphia, Pa.....	Maizeline.....	9.	5.
L. R. Wallace, Middletown, N. Y..	Mapes' Balanced Ration..	14.	4.50
A. Waller & Co., Henderson, Ky...	Blue Grass Mixed Feed....	10.	2.50
A. Waller & Co., Henderson, Ky....	Oneida Mixed Feed.....	10.	2.50

Name and address of manufacturer or jobber.	Brand or trade name.	Crude protein	Crude fat.
		<i>Per ct.</i>	<i>Per cl.</i>
The Otto Weiss Alfalfa Stock Food Co., Wichita, Kansas.....	The Otto Weiss Alfalfa Stock Food.....	13.27	4.37
J. Lindsay Wells Co., Memphis, Tenn.	Star Brand Choice Finely Ground Cotton Seed Meal	41.	9.
J. Lindsay Wells Co., Memphis, Tenn.....	Sunny South Brand Cotton Seed Meal.....	25.	5.
Western Dairy Feed Co., Milwaukee, Wis.....	Red Cow Dairy Feed.....	15.	3.
Western Grain Products Co., Ham- mond, Ind.....	Hammond Dairy Feed.....	17.	3.
Joel Wheeler & Co., Buffalo, N. Y..	Malt Sprouts.....	26.37	1.69
W. J. Wheelock, Greigsville, N. Y..	Banner Dairy Feed.....	26.	6.
The C. Zwickel Malting Co., Buffalo, N. Y.....	Malt Sprouts.....	25.	2.

ANALYSIS OF SAMPLES OF FEEDING STUFFS

Collection No.	Name and address of manufacturer or jobber and brand or trade name.	Sampled at		Crude protein.	Crude fat.	Fiber.
2002	COTTON SEED MEALS: Alabama Cotton Oil Co., Huntsville, Ala. Prime Cotton Seed Meal	Delhi	G* F	Per ct. 38.61 37.30	Per ct. 8. 8.40	Per ct.
2001	The American Cotton Oil Co. St. Louis, Mo. Choice Cotton Seed Meal	Delhi	G F	41. 38.30	9. 11.80	
2173	The American Cotton Oil Co., Jackson, Tenn. Choice Cotton Seed Meal	Patterson	G F	41. 45.10	9. 8.50	
m 2232	The American Cotton Oil Co., Fort Smith Mill Prime Cottonseed Meal	Owego	G F	41. 40.10	9. 8.40	
2178	H. E. Bridges & Co., Memphis, Tenn. Cotton Seed Meal	Pawling	G F	38.50 39.70	8. 9.20	
2035	F. W. Brode & Co., Memphis, Tenn. Owl Brand Pure Cotton Seed Meal	Oxford	G F	41. 40.50	7. 10.30	
2118	F. W. Brode & Co., Memphis, Tenn. Owl Brand Pure Cotton Seed Meal	Buffalo	G F	41. 39.40	7. 10.20	
2219	F. W. Brode & Co., Memphis, Tenn. Owl Brand Pure Cotton Seed Meal	West Town	G F	41. 40.50	7. 9.80	
2236	Chapin & Co., St. Louis, Mo. Green Diamond Brand Choice Cotton Seed Meal	Hornell	G F	41. 40.	9. 8.50	
2271	Chapin & Co., St. Louis, Mo. Green Diamond Brand Choice Cotton Seed Meal	Oswego	G F	41. 41.90	9. 7.	

* G and F stand respectively for Guaranteed and Found.

Collection No.	Name and address of manufacturer or jobber and brand or trade name.	Sampled at		Crude Protein.	Crude Fat.	Fiber.
				<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
2020	COTTON SEED MEALS: Humphreys, Godwin & Co., Memphis, Tenn. Dixie Brand Cotton Seed Meal	Oneonta	G F	38. 39.30	9. 8.20	
2159	Humphreys, Godwin & Co., Memphis, Tenn. Dixie Brand Cotton Seed Meal	Albany	G F	38. 38.10	9. 9.10	
2160	The Hunter Bros. Milling Co., St. Louis, Mo. Prime Cotton Seed Meal	Albany	G F	41. 39.10	9. 8.80	
2168	The Hunter Bros. Milling Co., St. Louis, Mo. Prime Cotton Seed Meal	Saratoga Spa.	G F	41. 38.30	9. 7.80	
2034	J. Lindsay Wells Co., Memphis, Tenn. Star Brand Cotton Seed Meal	Sherburne	G F	41. 37.70	9. 9.50	
2091	J. Lindsay Wells Co., Memphis, Tenn. Star Brand Cotton Seed Meal	Canton	G F	41. 40.70	9. 10.60	
2231	J. Lindsay Wells Co., Memphis, Tenn. Star Brand Extra Prime Cotton Seed Meal	Rome	G F	30. 28.10	8. 11.90	
2235	J. Lindsay Wells Co., Memphis, Tenn. Sun Brand Choice Finely Ground Cotton Seed Meal	Corning	G F	41. 33.80	9. 7.40	
2252	J. Lindsay Wells Co., Memphis, Tenn. Sun Brand Choice Finely Ground Cotton Seed Meal	Sinclairville	G F	41. 42.30	9. 9.20	
2254	J. Lindsay Wells Co., Memphis, Tenn. Sun Brand Choice Finely Ground Cotton Seed Meal	No. Collins	G F	41. 43.40	9. 8.60	
2079	LINSEED MEALS: American Linseed Co., Minneapolis, Minn. Ground Linseed Cake	Potsdam	G F	32. 34.50	5. 7.30	

* G and F stand respectively for Guaranteed and Found.

Col- lec- tion No.	Name and address of manufacturer or jobber and brand or trade name.	Sampled at		Crude protein.	Crude fat.	Fiber.
	LINSEED MEALS:					
2005	American Linseed Co., New York, N. Y. Old Process Oil Meal	Delhi	G F	<i>Per ct.</i> 32. 35.20	<i>Per ct.</i> 5. 5.80	<i>Per ct.</i>
2090	Hauenstein & Co., Buffalo, N. Y. Old Process Linseed Meal	Watertown	G F	35.95 35.90	6.51 6.10	
2158	Kelloggs & Miller Amsterdam, N. Y. Pure (Old Process) Oil Meal	Albany	G F	36.70 33.60	7.83 7.50	
2267	Lackawanna Mill & Elevator Co., Buffalo, N. Y. International Oil Meal	Newark	G F	29. 32.50	4. 7.30	
2062	The Mann Bros. Co., Buffalo, N. Y. Old Process Oil Meal	Phoenix	G F	34. 35.80	6. 8.10	
2080	The Metzger Seed & Oil Co., Toledo, Ohio. Old Process Oil Meal	Canton	G F	30. 34.20	5. 6.40	
2078	Minnesota Linseed Oil Co., Minneapolis, Minn. Ground Linseed Cake	Norwood	G F	34. 36.40	5. 5.80	
2280	Northern Linseed Co., Minneapolis, Minn. Ground Oil Cake	Carthage	G F	32. 34.80	6. 6.50	
2201	Louis Pfohl, Buffalo, N. Y. Strictly Pure Old Process Lin- seed Meal	Yonkers	G F	33.40 34.40	6.96 5.80	
2082	Red Wing Linseed Mills, Red Wing, Minn. Ground Oil Cake Old Process	Canton	G F	32. 32.90	6. 8.80	
	GLUTEN FEEDS:					
2024	Clinton Sugar Refining Co., Clinton, Iowa Clinton Gluten Feed	Oneonta	G F	24. 19.30	.50 1.30	

* G and F stand respectively for Guaranteed and Found.

Collection No.	Name and address of manufacturer or jobber and brand or trade name.	Sampled at		Crude protein.	Crude fat.	Fiber.
	GLUTEN FEEDS:			Per ct.	Per ct.	Per ct.
2018	Corn Products Manufacturing Co., Chicago, Ill. Buffalo Gluten Feed	Unadilla	G F	23. 24.70	2.50 3.80	
2039	Corn Products Manufacturing Co., Chicago, Ill. Pekin Gluten Feed	Greene	G F	23. 25.20	2.50 3.20	
2075	Corn Products Refining Co., New York, N. Y. Queen Gluten	Syracuse	G F	20. 23.10	2. 2.40	
2144	Corn Products Refining Co., New York, N. Y. Tiger Gluten Feed	Buffalo	G F	23. 24.40	2. 3.20	
2003	Corn Products Refining Co., New York, N. Y. Warner's Gluten Feed	Delhi	G F	24. 24.60	2.50 2.60	
2021	Douglas & Co., Cedar Rapids, Iowa Cedar Rapids Gluten Feed	Oneonta	G F	24. 19.00	4. 4.30	
2177	J. C. Hubinger Bros. Co., Keokuk, Iowa. Gluten Feed	Pawling	G F	27. 23.60	2.50 2.30	
2215	Huron Milling Co., Harbor Beach, Mich. Jenks Gluten Feed	Liberty	G F	27. 26.90	7.50 11.20	
2179	The Michigan Starch Co., Traverse City, Mich. Michigan Gluten Feed	Millerton	G F	25. 15.80	3. 4.40	5.2
2156	New York Glucose Co., New York, N. Y. Globe Gluten Feed	Albany	G F	26. 26.70	2.50 3.	
2217	Piel Bros. Starch Co., Indianapolis, Ind. P. Bro. Gluten Feed	Middletown	G F	23.50 19.90	3.50 2.60	
2120	CORN BRANS: Husted Milling Co., Buffalo, N. Y. Coarse Corn Bran	Buffalo	G F	8. 9.90	4. 5.40	7.40

* G and F stand respectively for Guaranteed and Found.

Col- lec- tion No.	Name and address of manufacturer or jobber and brand or trade name.	Sampled at		Crude protein.	Crude fat.	Fiber.
	CORN BRANS:			<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
2295	Thompson & Mould Goshen, N. Y. Matchless Fancy Corn Bran	Gardiner	G F	10.70 9.90	7.80 8.20	4.
	DRIED DISTILLERS' GRAINS:					
2057	Ajax Milling & Feed Co., New York, N. Y. Ajax Flakes	Cortland	G F	33. 32.20	12. 14.30	
2154	Barber Consolidated Feed Co., Buffalo, N. Y. Trojan Grains	Mexico	G F	31. 28.70	10. 10.80	
2063	Bernheim Distilling Co., Louisville, Ky. Distillers' Dried Grains	Phoenix	G F	— 29.80	— 11.10	
2026	The J. W. Biles Co., Cincinnati, Ohio. Biles' XXXX Grains	Norwich	G F	33. 31.80	11. 12.10	
2253	The J. W. Biles Co., Cincinnati, Ohio. R. Distillers' Dried Grains	Sheridan	G F	24. 22.70	7. 11.20	
2032	Continental Cereal Co., Peoria, Ill. Continental Gluten Feed	Norwich	G F	33. 30.70	14. 12.40	
2165	Deutsch & Sickert Co., Milwaukee, Wis. Climax Grains	Granville	G F	34. 32.60	11. 12.50	
2230	C. F. Keck & Co., Milwaukee, Wis. Corn Distillers' Grains	Herkimer	G F	31. 28.1	9. 9.9	
2059	Merchants' Distilling Co., Terre Haute, Ind. Merchants' High Grade Dairy Feed	Cortland	G F	33. 36.10	12. 12.20	
2072	Merchants Distilling Co., Terre Haute, Ind. Merchants High Grade Dairy Feed	Syracuse	G F	34. 30.3	12. 13.3	

* G and F stand respectively for Guaranteed and Found.

Col- lec- tion No.	Name and address of manufacturer or jobber and brand or trade name.	Sampled at		Crude protein.	Crude fat.	Fiber.
				<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
2081	DRIED DISTILLERS' GRAINS: J. D. Page & Co., Syracuse, N. Y. Pure Empire State Dairy Feed	Canton	G F	29. 29.10	10.70 7.70	
2096	MALT SPROUTS: W. & J. Agate, Pittsford, N. Y. Malt Sprouts	Pittsford	G F	24. 27.	3. 2.20	
2037	American Malting Co., Buffalo, N. Y. Malt Sprouts	Greene	G F	25. 29.	2. 2.	
2265	Anheuser Busch Brewing As- sociation, St. Louis, Mo. Malt Sprouts	Newark	G F	22. 26.90	2. 1.50	
2185	Atlantic Export Co., of Wis- consin, Milwaukee, Wis. Malt Sprouts	Kingston	G F	25. 22.60	2. 1.60	
2264	Bartholomay Brewery Co., Rochester, N. Y. Malt Sprouts	Rochester	G F	20.94 25.60	2.52 2.10	
2256	Julius Binz Buffalo, N. Y. Malt Sprouts	Buffalo	G F	26.43 28.30	3.18 1.50	
2251	H. V. Burns, Buffalo, N. Y. Malt Sprouts	Buffalo	G F	25.63 23.70	2.33 2.70	
2149	Chas. G. Curtis Co., Buffalo, N. Y. Kiln Malt Sprouts	Buffalo	G F	24. 28.80	1. 1.30	
2249	Deutsch & Sickert Co., Milwaukee, Wis. Malt Sprouts	Springville	G F	22.90	1.30	
2013	Francis Duhne, Jr., Milwaukee, Wis. Malt Sprouts	Bainbridge	G F	25. 23.60	2. 2.	
2279	Flint Mill Co., Buffalo, N. Y. Marvel Malt Sprouts	Lowville	G F	23. 24.90	1. 1.40	

* G and F stand respectively for Guaranteed and Found.

Col- lec- tion. No.	Name and address of manufacturer or jobber and brand or trade name.	Sampled at		Crude protein.	Crude fat.	Fiber.
	MALT SPROUTS:			<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
2289	Husted Milling Co., Buffalo, N. Y. Malt Sprouts	Bath	G F	20. 25.30	1.50 1.20	
2272	Johnson & Lyon, Oswego, N. Y. Malt Sprouts	Oswego	G F	26.25 31.90	.70 2.30	
2147	John Kam Malting Co., Buffalo, N. Y. Malt Sprouts	Buffalo	G F	29.75 25.50	.78 1.60	
2246	Kreiner & Lehr, Buffalo, N. Y. Malt Sprouts	Buffalo	G F	26.12 27.70	1.56 2.10	
2291	Lembeck & Betz, Watkins, N. Y. Malt Sprouts	Watkins	G F	27.56 29.40	1.47 2.10	
2141	Henry C. Moffat, Buffalo, N. Y. Malt Sprouts	Buffalo	G F	28.70 26.90	2.40 1.90	
2273	Neidlinger & Co., Oswego, N. Y. Malt Sprouts	Oswego	G F	26.25 29.60	.70 2.00	
2095	S. K. Nester, Geneva, N. Y. Malt Sprouts	Geneva	G F	25. 26.50	2. 2.30	
2055	M. G. Rankin & Co., Milwaukee, Wis. Jersey Malt Sprouts	Cortland	G F	25. 28.80	2.50 2.	
2054	Reingans-Wolff Grain Co., Milwaukee, Wis. Malt Sprouts	Cortland	G F	23. 27.40	1.25 1.90	
2066	Reingans-Wolff Grain Co., Milwaukee, Wis. Malt Sprouts	Fulton	G F	23. 26.20	1.25 2.10	
2245	Schaefer & Sons Malting Co., Buffalo, N. Y. Malt Sprouts	Buffalo	G F	26.75 30.10	2.35 2.60	

* G* and F stand respectively for Guaranteed and Found.

Collection No.	Name and address of manufacturer or jobber and brand or trade name.	Sampled at		Crude protein.	Crude fat.	Fiber.
	MALT SPROUTS:			<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
2270	William Taylor, Lyons, N. Y. Malt Sprouts	Clyde	G F	24. 29.90	1. 2.40	
2247	Joel Wheeler & Co., Buffalo, N. Y. Malt Sprouts	Buffalo	G F	26.37 25.90	1.69 2.	
2119	C. Zwickel Malting Co., Buffalo, N. Y. Malt Sprouts	Buffalo	G F	25. 26.60	2. 1.90	
	DRIED BREWERS' GRAINS:					
2266	Anheuser Busch Brewing Ass'n, St. Louis, Mo. Dried Brewers' Grains	Newark	G F	24. 24.	7.50 7.	
2101	Atlantic Export Co., of Wis. Milwaukee, Wis. Dried Brewers' Grains	Victor	G F	25. 26.70	7. 7.20	
2100	Bartholomay Brewery Co., Rochester, N. Y. Dried Brewers' Grains	Victor	G F	22.17 26.60	4.60 4.20	
2274	Columbia Distilling Co., Waterloo, N. Y. Distillers' Dry Malt Grains	Waterloo	G F	25. 27.50	8. 12.50	
2226	Francis Duhne, Jr., Milwaukee, Wis. Pure Dried Brewers' Grains	Monroe	G F	25. 29.	7. 6.40	
2205	Farmer's Feed Co., New York, N. Y. Dried Brewers' Grains	New York	G F	26.30 26.60	7.60 6.80	
2074	Hoffman & Co., Syracuse, N. Y. Brewers' Dry Grains	Syracuse	G F	23.34 23.30	6.43 5.80	
2298	Johnstown Dry Grains Co., Johnstown, Pa. Dried Brewers' Grains	West Town	G F	24. 25.60	6.71 6.90	
2047	The Penna. Central Brewing Co., Scranton, Pa. Dried Brewers' Grains	Binghamton	G F	23.71 25.	7.14 6.30	

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Col- lec- tion. No.	Name and address of manufacturer or jobber and brand or trade name.	Sampled at		Crude protein.	Crude fat.	Fiber.
	DRIED BREWERS' GRAINS:			<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
2006	M. G. Rankin & Co., Milwaukee, Wis. Schlitz Pure Dried Grains	Sidney	G F	24.50 24.40	6.50 5.60	
	HOMINY FEEDS:					
2186	Allen Baker Com. Co., St. Louis, Mo. Crown Hominy Feed Kiln Dried	Kingston	G F	11.02 9.6	7.70 8.4	5.
2009	American Hominy Co., Indianapolis, Ind. Hominy Feed	Bainbridge	G F	10.24 10.70	7.72 7.80	3.71
2255	Ames-Burns Co., Jamestown, N. Y. A. B. C. Fine White Hominy	No. Collins	G F	11. 10.40	8. 8.70	5.50
2031	Buffalo Cereal Co., Buffalo, N. Y. Hominy Feed	Norwich	G F	10.25 10.50	8.0 8.50	3.70
2012	Empire Grain & Elevator Co., Binghamton, N. Y. Pearl Hominy	Bainbridge	G F	10.12 10.20	7.52 9.30	4.70
2213	Evans Milling Co., Indianapolis, Ind. Evans Hominy	Walton	G F	10. 11.10	7.70 9.90	5.40
2182	Flint Mill Co., St. Louis, Mo. Green Diamond Hominy Feed	Kingston	G F	10. 10.40	7. 9.10	5.10
2227	The Hunter Bros. Milling Co., St. Louis, Mo. Hominy Feed Kiln Dried	Fort Plain	G F	8.50 10.10	7. 6.98	4.20
2093	Husted Milling Co., Buffalo, N. Y. Hominy Feed	Auburn	G F	9. 9.	7. 4.60	2.20
2218	Miner-Hillard Milling Co., Wilkes Barre, Pa. Choice Steam Cooked Hominy Feed	Middletown	G F	10. 10.80	7.50 9.50	3.30

* G and F stand respectively for Guaranteed and Found.

Col- lec- tion No.	Name and address of manufacturer or jobber and brand or trade name.	Sampled at		Crude protein.	Crude fat.	Fiber.
	HOMINY FEEDS:			<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
2299	Miner-Hillard Milling Co., Wilkes Barre, Pa. Choice Steam Cooked Hominy Feed	West Town	G F	10. 9.80	7.50 7.40	4.10
2019	Oneonta Milling Co., Buffalo, N. Y. Susquehanna Hominy Chop	Oneonta	G F	10. 10.50	7. 8.30	4.20
2044	The Patent Cereals Co., Geneva, N. Y. Hominy Chop	Windsor	G F	10. 10.10	7. 8.	3.50
2175	Wm. H. Payne & Son, New York, N. Y. Hominy Chop	Mount Kisco	G F	11.49 10.3	8. 7.90	4.50
2220	Thompson & Mould, Goshen, N. Y. Special Hominy Meal	Johnson	G F	10. 10.10	7. 8.20	3.40
2040	The Sam W. Weidler Co., Cincinnati, O. Hominy Feed	Greene	G F	10.25 10.70	7.75 8.20	4.70
	COMPOUNDED FEEDS:					
2161	Acme Milling Co., Olean, N. Y. Acme Feed	Albany	G F	8.50 7.50	4.50 3.20	8.60
2239	Acme Milling Co., Olean, N. Y. Acme Feed	Olean	G F	8.50 8.40	4.50 3.90	9.90
2212	J. & T. Adikes, Jamaica, N. Y. Adikes' Ground Feed	Jamaica	G F	8.75 10.	3. 3.10	9.50
2115	C. E. Allen, Niagara Falls, N. Y. Corn and Oats	Niagara Falls	G F	9.90	3.70	5.
2244	Ames-Burns Co., Jamestown, N. Y. A. B. C. Cattle Feed	Jamestown	G F	24. 24.8	8. 11.2	
2234	Ames-Burns Co., Jamestown, N. Y. Ever Ready Dairy Feed	Corning	G F	18. 13.60	3. 3.70	10.10

* G and F stand respectively for Guaranteed and Found.

Collection No.	Name and address of manufacturer or jobber and brand or trade name.	Sampled at		Crude protein.	Crude fat.	Fiber.
COMPOUNDED FEEDS:						
2283	The American Cereal Co., Chicago, Ill., C Feed	Saranac Lake	G F	Per ct. 7.50 8.40	Per ct. 3. 3.70	Per ct. 10.70
2228	The American Cereal Co., Chicago, Ill., Quaker Dairy Feed	St. Johnsville	G F	12. 12.60	3. 3.30	16.30
2058	The American Cereal Co., Chicago, Ill., Schumacher's Stock Feed	Cortland	G F	10. 10.10	4. 4.10	11.50
2068	The American Cereal Co., Chicago, Ill., Victor Feed	Oswego	G F	7.50 8.10	3. 3.10	10.
2065	American Milling Co., Chicago, Ill., Sucrene Dairy Feed	Fulton	G F	16.50 16.70	3.50 4.70	10.60
2204	American Milling Co., Owensboro, Ky., Sucrene Horse Feed	Port Chester	G F	13.50 11.80	3.50 4.30	9.50
2064	American Milling Co., Chicago, Ill., Sucrene Horse, Mule and Ox Feed	Fulton	G F	10. 14.30	3. 4.40	10.20
2007	The Ashland Stock Food Co., Ashland, Ohio Ashland Calf Food	Sidney.	G F	28.05 19.70	6.01 4.20	
2248	Barber Consolidated Feed Co., Buffalo, N. Y. Economy Sugar Feed	Springville	G F	15. 14.30	3. 4.50	14.70
2143	Battle Creek Breakfast Food Co., Buffalo, N. Y. Cooked Feed	Buffalo,	G F	12. 18.	3. 7.60	6.60
2027	The J. W. Biles Co., Cincinnati, Ohio Union Grains Biles' Ready Rations	Norwich	G F	24. 22.60	7. 7.90	9.80
2043	Blatchford's Calf Meal Factory, Waukegan, Ill., Blatchford's Calf Meal	Windsor	G F	25. 27.	5. 4.70	

* G and F stand respectively for Guaranteed and Found.

Col- lec- tion No.	Name and address of manufacturer or jobber and brand or trade name.	Sampled at		Crude protein.	Crude fat.	Fiber.
	COMPOUNDED FEEDS:			<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
2229	Blatchford's Calf Meal Fac- tory, Waukegan, Ill., Blatchford's Sugar and Flax- seed	Waterville	G F	27. 25.70	10. 9.70	
2181	B. & M. Milling & Elevator Co., Adams, Neb. High Grade Degerminated Kiln Dried Corn Products	Kingston	G F	11.60	9.60	4.80
2288	H. W. Bowes & Co., Bath, N. Y. Mixed Feed	Bath	G F	9.80 11.70	3.30 4.	4.60
2111	Buffalo Cereal Co., Buffalo, N. Y. Buf-Ce-Co Stock Feed	Buffalo	G F	9. 9.20	4.50 5.60	4.10
2112	Buffalo Cereal Co., Buffalo, N. Y. Corn and Oat Chop	Buffalo	G F	7.50 9.70	3.50 4.60	4.70
2110	Buffalo Cereal Co., Buffalo, N. Y. Creamery Feed	Buffalo	G F	20. 18.50	5. 5.70	9.10
2109	Buffalo Cereal Co., Buffalo, N. Y. Dairy Feed	Buffalo	G F	14. 14.80	4. 4.60	8.20
2113	Buffalo Cereal Co., Buffalo, N. Y. Horse Feed	Buffalo	G F	12. 12.60	4.50 5.20	4.90
2071	Clark & Mercer, Baldwinsville, N. Y. Meal and Bran	Baldwinsville	G F	12.05 11.40	4.15 4.30	4.60
2211	Coakley & Meader New York, N. Y. Atlas Horse Feed	New York	G F	16.40 14.2	2.90 3.2	7.40
2282	Commercial Milling Co., Cleveland, Ohio Dan's Corn and Oat Feed	Saranac Lake	G F	10.81 8.30	6.02 3.30	7.10
2202	The Corno Mills East St. Louis, Mo. Corno Horse and Mule Feed	Yonkers	G F	10. 10.10	3.50 4.10	12.70

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Collection No.	Name and address of manufacturer or jobber and brand or trade name.	Sampled at		Crude protein.	Crude fat.	Fiber.
	COMPOUNDED FEEDS:			<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
2197	Crow & Williams, Ossining, N. Y. Crow & Williams' Mixed Feed	Ossining	G F	10. 10.70	4.50 5.40	13.10
2284	Dock & Coal Co., Plattsburgh, N. Y. Dandy Corn and Oat Bran Feed	Plattsburgh	G F	9. 9.40	4.20 4.70	6.90
2169	Francis Duhne, Jr., Milwaukee, Wis. Molasses Milk Feed	Brewster	G F	15. 12.90	3. 3.30	16.10
2011	Francis Duhne, Jr., Milwaukee, Wis. Three Star Molasses Feed	Bainbridge	G F	15. 13.40	3. 3.20	15.80
2028	R. D. Eaton Grain & Feed Co., Norwich, N. Y. Pea Bran	Norwich	G F	15.80	1.80	21.30
2257	Ellsworth & Co., Buffalo, N. Y. De-Fi Corn and Oat Feed	Buffalo	G F	8. 8.50	3. 3.50	14.30
2259	Ellsworth & Co., Buffalo, N. Y. The H-O Co.'s Algrane Horse Feed	Buffalo	G F	12. 12.30	4.50 4.80	10.70
2260	Ellsworth & Co., Buffalo, N. Y. The H-O Co.'s Algrane Milk Feed	Buffalo	G F	14. 17.	4. 3.90	12.30
2262	Ellsworth & Co., Buffalo, N. Y. The H.O Co.'s Jim Dandy Feed	Buffalo	G F	7.50 7.90	2.75 2.80	23.90
2258	Ellsworth & Co., Buffalo, N. Y. N. E. S. F. New England Stock Feed	Buffalo	G F	9. 8.40	4. 3.	8.40

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Col- lec- tion No.	Name and address of manufacturer or jobber and brand or trade name.	Sampled at		Crude protein.	Crude fat.	Fiber.
	COMPOUNDED FEEDS:			<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
2046	Empire Grain & Elevator Co., Binghamton, N. Y. Neverfail Dairy Feed	Binghamton	G F	25. 24.20	5. 6.20	9.50
2094	Empire Mills Olean, N. Y. Empire Feed	Auburn	G F	7.63 8.30	2.97 3.50	6.50
2187	Everett & Treadwell Kingston, N. Y. C. O. & W. Feed	Kingston	G F	11.50 12.60	3.50 4.10	3.70
2276	Flint Mill Co., Milwaukee, Wis. Triangle Calf Feed	Camden	G F	22. 19. 1	10. 9.2	3.20
2190	F. W. Goeke & Co., St. Louis, Mo. Holstein Sugar Feed Dairy Feed	Poughkeepsie	G F	15. 14.60	3. 3.	15.50
2145	John Gorman, Buffalo, N. Y. Boat Sweepings	Buffalo	G F	5. 14.	2. 3.60	5.50
2069	The Great Western Cereal Co., Chicago, Ill., Boss Chop Feed	Oswego	G F	8. 8.08	3.50 4.70	9.60
2073	The Great Western Cereal Co., Chicago, Ill. Daisy Dairy Feed	Syracuse	G F	16. 20.40	3. 3.70	10.40
2195	The Great Western Cereal Co., Chicago, Ill. Excelsior Chop Feed	Newburgh	G F	8. 8.40	3.50 3.20	12.20
2108	The Great Western Cereal Co., Chicago, Ill. Gregson's Calf Meal	Batavia	G F	25. 19.	5. 6.70	
2157	The Great Western Cereal Co., Chicago, Ill. Sterling Stock Feed	Albany	G F	11. 11.10	4. 3.90	8.50
2216	W. H. Haskell & Co., Toledo, Ohio Haskell's Stock Feed	Liberty	G F	8. 9.90	4. 7.20	6.

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Col- lec- tion No.	Name and address of manufacturer or jobber and brand or trade name.	Sampled at		Crude protein.	Crude fat.	Fiber.
	COMPOUNDED FEEDS:			<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
2290	B. Hayes & Son, Wayland, N. Y. Mixed Feed	Wayland	G F	10.40	3.90	4.80
2129	Henry & Missert, Buffalo, N. Y. B. S. Stock Feed	Buffalo	G F	13. 13.50	3. 4.40	5.50
2142	The H-O Company, Buffalo, N. Y. Force Screenings	Buffalo	G F	13. 15.20	3. 5.60	5.40
2233	Hodgman Milling Co., Painted Post, N. Y. Corn and Oat Chop Feed	Painted Post	G F	9.69 9.50	3.88 3.10	4.60
2076	Husted Milling Co., Buffalo, N. Y. Corn and Oats Fine Ground "B"	Skaneateles	G F	9. 8.10	3. 3.20	11.80
2122	Husted Milling Co., Buffalo, N. Y. Fine Ground Eclipse Feed	Buffalo	G F	9. 10.90	4. 5.20	5.80
2083	Husted Milling Co., Buffalo, N. Y. Horse Feed	Cape Vincent	G F	12. 13.10	4. 5.50	5.30
2124	Husted Milling Co., Buffalo, N. Y. Husted's Dairy Feed	Buffalo	G F	18. 18.80	3. 5.50	8.90
2127	Husted Milling Co., Buffalo, N. Y. Husted's Horse Feed	Buffalo	G F	12. 13.	4. 4.90	7.40
2121	Husted Milling Co., Buffalo, N. Y. Husted's Stock Feed	Buffalo	G F	8. 9.10	4. 5.10	6.50
2126	Husted Milling Co., Buffalo, N. Y. Husted's Yellow Provender	Buffalo	G F	7. 9.10	4. 4.50	6.20
2077	Husted Milling & Elevator Co., Buffalo, N. Y. Monarch Chop	Skaneateles	G F	7.50 9.20	3.50 4.40	6.70

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Collection No.	Name and address of manufacturer or jobber and brand or trade name.	Sampled at		Crude protein.	Crude fat.	Fiber.
	COMPOUNDED FEEDS:			<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
2275	Husted Milling Co., Buffalo, N. Y. Monarch Dairy Feed	Camden	G F	7. 9.70	3. 4.60	7.20
2132	Hydraulic Milling Co., Buffalo, N. Y. Standard Chop Feed	Buffalo	G F	6.44 9.	2.53 6.10	8.20
2155	Indiana Milling Co., Terre Haute, Ind. Jersey Mixed Feed	Mexico	G F	12.05 9.8	3.20 3.1	16.30
2192	Chas. A. Krause Milling Co., Milwaukee, Wis. Badger Dairy Feed	Fishkill Landing	G F	18. 16.1	4.50 4.3	10.90
2221	C. A. Krause Milling Co., Milwaukee, Wis. Badger Dairy Feed	Johnson	G F	18. 15.30	4.50 5.10	10.80
2146	Lackawanna Mill & Elevator Co., Buffalo, N. Y. Special Corn and Oat Feed	Buffalo	G F	5. 12.	2. 3.50	10.90
2180	Matthews & Harrison Kingston, N. Y. Arcade Mixed Feed	Kingston	G F	10.42 9.70	5.86 4.70	11.60
2067	Milwaukee Molasses Feed Co., Milwaukee, Wis. Prize Dairy Feed	Oswego	G F	18. 15.70	3. 5.20	12.50
2188	E. P. Mueller, Milwaukee, Wis. Mueller's Molasses Grains	Poughkeepsie	G F	19.81 17.3	2.73 1.7	
2103	The Natural Food Co., Niagara Falls, N. Y. Shredded Wheat Waste	Rochester	G F	10. 11.40	1.50 2.	2.30
2241	Neff's Mills, Salamanca, N. Y. Chop Feed	Salamanca	G F	6. 7.40	2. 3.40	12.
2085	Niagara Mill & Elevator Co., Buffalo, N. Y. Niagara Special Corn and Oat Feed	Watertown	G F	8.31 9.80	3.83 5.50	8.50

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Col- lec- tion No.	Name and address of manufacturer or jobber and brand or trade name.	Sampled at		Crude protein.	Crude fat.	Fiber.
	COMPOUNDED FEEDS:					
2238	Olean Mills Olean, N. Y. Chop Feed	Olean	G F	Per ct. 8.58 9.	Per ct. 4.86 4.	Per ct. 8.90
2023	Oneonta Milling Co., Oneonta, N. Y. Arrow Corn and Oat Feed	Oneonta	G F	9. 8.10	3.75 3.50	3.60
2022	Oneonta Milling Co., Oneonta, N. Y. Corn and Oat Provender	Oneonta	G F	8.75 8.80	3.50 3.20	5.50
2292	Oneonta Milling Co., Albany, N. Y. Bran	Voorheesville	G F	 14.40	 6.30	11.40
2224	John Orr & Co., Mountainville, N. Y. Horse Feed	Mountainville	G F	13.20 10.70	3.90 3.60	5.90
2223	Wm. Orr & Sons, Orr's Mills, N. Y. Orr's Mixed Feed	Orr's Mills	G F	7.50 12.30	2. 4.50	4.10
2240	Phelps & Sibley Co., Cuba, N. Y. P. & S. Feed	Cuba	G F	7.50 8.20	3. 3.50	5.40
2296	The Quaker Oats Co., Chicago, Ill. Maz-All Corn Feed	Gardiner	G F	9.50 8.80	1.40 1.	.80
2092	The Quaker Oats Co., Chicago, Ill. Premium Calf Meal	Auburn	G F	15.50 14.50	5.50 7.	2.30
2014	The Quaker Oats Co., Chicago, Ill., Schumacher's Calf Meal	Afton	G F	19. 20.30	8. 8.	
2166	The Quaker Oats Co., Chicago, Ill. Schumacher's F. S. Stock Feed	Fort Edward	G F	10. 11.10	4. 4.	10.80
2167	George Roberts, Glens Falls, N. Y. Mixed Feed	Glens Falls	G F	 11.50	 4.50	4.90

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Col- lec- tion No.	Name and address of manufacturer or jobber and brand or trade name.	Sampled at		Crude protein.	Crude fat.	Fiber.
	COMPOUNDED FEEDS:			<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
2008	J. H. Rodebaugh, Buffalo, N. Y. Stone Mills Mixed Feed	Bainbridge	G F	10. 9.70	2.50 3.10	14.6
2214	The Sugarine Co., Chicago, Ill. Sugarine Dairy Feed	Walton	G F	16.50 17.60	3.50 4.40	9.70
2116	C. A. Terwilliger, Niagara Falls, N. Y. Corn and Oat Feed	Niagara Falls	G F	11.10	4.10	4.80
2243	Toledo Grain & Milling Co., Toledo, Ohio Feed Meal	Little Valley	G F	7.50 8.	3.50 4.10	5.70
2242	Toledo Grain & Milling Co., Toledo, Ohio M. D. Chop	Little Valley	G F	7.30 9.	3.87 4.30	5.10
2017	The Toledo Elevator Co., Toledo, Ohio Star Feed	Unadilla	G F	7. 8.10	6. 5.70	9.90
2250	Victor Mills, Springville, N. Y. Corn, Oats and Barley	Springville	G F	7. 8.20	4. 3.50	8.
2222	C. W. Wagar & Co., Philadelphia, Pa. Maizeline	Johnson	G F	9. 9.50	5. 4.60	9.10
2010	Western Dairy Feed Co., Milwaukee, Wis. Red Cow Dairy Feed	Bainbridge	G F	16.50 15.80	3.50 3.10	9.90
2170	Western Grain Products Co., Hammond, Ind Hammond Dairy Feed	Brewster	G F	17. 14.9	3. 4.1	9.70
2174	Young & Halstead Co., Mount Kisco, N. Y. No. 2 Feed	Mount Kisco	G F	9.60	3.30	11.20
2203	Unknown Hominy Chop Feed	White Plains	G F	10.60	9.20	4.60

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Col- lec- tion, No.	Name and address of manufacturer or jobber and brand or trade name.	Sampled at		Crude protein.	Crude fat.	Fiber.
	ANIMAL PRODUCTS (MEAT, MEALS, ETC.):			<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
2098	The Armour Fertilizer Works, Chicago, Ill. Armour's Beef Scraps	Rochester	G F	55. 66.70	12. 14.	
2135	The Armour Fertilizer Works, Chicago, Ill. Armour's Blood Meal	Buffalo	G F	85. 84.40	2. .70	
2134	The Armour Fertilizer Works, Chicago, Ill. Armour's Granulated Poultry Bone	Buffalo	G F	25. 27.20	5. 1.80	
2269	The Armour Fertilizer Works, Chicago, Ill. Granulated Poultry Bone	Lyons	G F	25. 25.30	5. 1.	
2070	The Armour Fertilizer Works, Chicago, Ill. Armour's Meat and Bone	Oswego	G F	45. 51.80	8. 11.30	
2097	The Armour Fertilizer Works, Chicago, Ill. Meat Meal	Rochester	G F	50. 57.20	10. 12.80	
2293	Burr Bentley, Delanson, N. Y. Fresh Cut Meat and Bone for Poultry	Delanson	G F	30. 31.60	5. 13.90	
2193	The Berg Co., Philadelphia, Pa. 3 Medal Poultry Meat	Fishkill Landing	G F	50. 58.40	13. 12.70	
2297	Blatchford's Calf Meal Fac- tory, Waukegan, Ill. Blatchford's Fill the Basket Poultry Meat	Wallkill	G F	33. 25.30	10. 5.60	
2171	Bowker Fertilizer Co., New York, N. Y. Beef Scrap	Brewster	G F	30. 47.60	20. 11.90	
2089	The Bowker Co., Boston, Mass. Bowker's Animal Meal	Watertown	G F	30. 30.10	5. 19.20	

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Col- lection No.	Name and address of manufacturer or jobber and brand or trade name.	Sampled at		Crude protein.	Crude fat.	Fiber.
				<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
2139	ANIMAL PRODUCTS (MEAT MEALS, ETC.): Cyphers Incubator Co., Buffalo, N. Y. High Protein Beef Scraps for Poultry	Buffalo	G F	55. 56.70	15. 14.50	
2199	Darling & Co., Long Island City; N. Y. Darling's Beef Meal for Poul- try	Ossining	G F	45. 37.90	10. 6.80	
2104	Darling & Co., Chicago, Ill. Darling's Pure Ground Beef Scraps for Poultry	Rochester	G F	55. 55.10	10. 12.	
2198	Darling & Co., Long Island City, N. Y. Darling's Raw Bone Meal for Poultry	Ossining	G F	20. 24.60	2. 2.80	
2106	The Albert Dickinson Co., Chicago, Ill. Dickinson's Blood Meal	Rochester	G F	87. 84.60	— .50	
2036	Geo. M. Finn, Syracuse, N. Y. Beef and Bone Scrap Chicken Feed	Greene	G F	42.643 39.90	19.126 17.80	
2208	Fritts Bros., Ogontz, Pa. Pure Prepared Meat for Poultry	New York	G F	50. 67.80	10. 18.70	
2042	George L. Harding, Binghamton, N. Y. Harding's Celebrated Meat Meal	Binghamton	G F	45. 43.20	10. 10.60	
2015	George L. Harding, Binghamton, N. Y. Harding's High Grade Beef Scrap	Afton	G F	43. 36.60	25. 21.20	
2050	Geo. L. Harding, Binghamton, N. Y. Granulated Bone	Binghamton	G F	— 25.40	— 2.80	

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Col- lec- tion. No.	Name and address of manufacturer or jobber and brand or trade name.	Sampled at		Crude protein.	Crude fat.	Fiber.
				Per ct.	Per ct.	Per ct.
	ANIMAL PRODUCTS (MEAT MEALS, ETC.):					
2107	Harvey Seed Co., Buffalo, N. Y. Ground Beef Scrap	Batavia	G F	50. 62.10	9. 12.10	
2133	Model Milling Co., Buffalo, N. Y. Baby Beef Scrap	Buffalo	G F	— 69.60	— 10.10	
2130	Model Milling Co., Buffalo, N. Y. Model Beef Scrap	Buffalo	G F	63. 67.60	10. 10.30	
2194	Newburgh Rendering Co., Newburgh, N. Y. Animal Meal for Poultry	Newburgh	G F	35. 41.90	12.90 7.40	
2136	D. W. Romaine, New York, N. Y. D. W. Romaine's Evaporated Boiled Beef and Bone for Poultry	Buffalo	G F	45. 40.40	15. 20.60	
2105	J. Rosenthal Dumont, N. J. Ground Beef Scraps	Rochester	G F	58.10 41.	16.12 22.60	
2176	Spratts Patent (America) Ltd., Newark, N. J. Ground Meat	Mount Kisco	G F	43. 49.70	11. 17.60	
2163	H. M. Stanton Schenectady, N. Y. Beef Scrap	Troy	G F	50. 41.30	9. 27.30	
2207	Stumpp & Walter Co., New York, N. Y. Quality Kind Beef Scraps for Poultry	New York	G F	50. 53.50	14. 16.40	
2030	Swift's Lowell Fertilizer Co., Boston, Mass. Swift's Lowell Beef Scraps	Norwich	G F	40. 44.80	15. 12.70	
2162	Swift's Lowell Fertilizer Co., Boston, Mass. Swift's Lowell Bone and Meat for Poultry	Amsterdam	G F	40. 38.	8. 9.60	

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Col- lec- tion No.	Name and address of manufacturer or jobber and brand or trade name.	Sampled at		Crude protein.	Crude fat.	Fiber.
	ANIMAL PRODUCTS (MEAT MEALS, ETC.):			<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
2087	Swift's Lowell Fertilizer Co., Boston, Mass.	Watertown	G F	20. 26.50	5. 5.60	
	Swift's Lowell Cracked Bone for Poultry					
2088	Swift's Lowell Fertilizer Co., Boston, Mass.	Watertown	G F	20. 24.80	5. 8.10	
	Swift's Lowell Edible Bone Meal for Cattle and Poultry					
2209	Unknown.	New York	G F	42. 68.10	30. 18.30	
	Beef Scraps					
	POULTRY FOODS (COMPOUNDED):					
2114	Buffalo Cereal Co., Buffalo, N. Y.	Buffalo	G F	17. 18.30	5. 4.70	5.70
	Poultry Feed					
2051	E. W. Conklin & Son, Binghamton, N. Y.	Binghamton	G F	11.10 12.	4.05 3.30	5.50
	Arrow Chick Food					
2052	E. W. Conklin & Son, Binghamton, N. Y.	Binghamton	G F	11.50 11.80	4.30 3.10	2.90
	Arrow Egg Food					
2053	E. W. Conklin & Son, Binghamton, N. Y.	Binghamton	G F	15.40 17.70	3. 4.10	8.60
	Arrow Mash Food					
2268	The Converse-Hubbard Co., Lyons, N. Y.	Lyons	G F	 25.	 7.40	6.10
	Dry Mash for Chickens					
2045	Geo. Cravers Sons, Binghamton, N. Y.	Binghamton	G F	10. 10.30	4.20 2.70	2.20
	C. & S. Chick Food					
2038	Geo. Cravers Sons, Binghamton, N. Y.	Greene	G F	8. 10.70	2. 3.10	2.65
	Gold Brand Poultry Food					
2140	Cyphers Incubator Co., Buffalo, N. Y.	Buffalo	G F	10.54 10.80	3.40 3.50	2.70
	Chick Food					

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Col- lec- tion No.	Name and address of manufacturer or jobber and brand or trade name.	Sampled at		Crude protein	Crude fat.	Fiber.
	POULTRY FOODS (COMPOUNDED):			<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
2138	Cyphers Incubator Co., Buffalo, N. Y. Developing Food	Buffalo	G F	10. 11.10	3.72 3.20	2.30
2137	Cyphers Incubator Co., Buffalo, N. Y. Forcing Food	Buffalo	G F	12.89 11.90	4.40 3.70	4.
2183	Cyphers Incubator Co., Buffalo, N. Y. Laying Food	Kingston	G F	17.31 17.60	3.80 2.30	3.60
2184	Cyphers Incubator Co., Buffalo, N. Y. Scratching Food	Kingston	G F	10.75 11.10	3.89 3.30	2.50
2025	R. D. Eaton Grain & Feed Co., Norwich, N. Y. Eaton's Perfection Mash Mix- ture for Laying Fowls	Norwich	G F	20. 20.40	4. 4.10	
2261	Ellsworth & Co., Buffalo, N. Y. The H-O Co.'s Poultry Feed	Buffalo	G F	17. 17.80	5.50 4.90	4.70
2049	Empire Grain & Elevator Co., Binghamton, N. Y. Neverfail Chick Raiser	Binghamton	G F	— 10.80	— 2.10	1.80
2048	Empire Grain & Elevator Co., Binghamton, N. Y. Neverfail Egg Producer	Binghamton	G F	— 10.10	— 2.90	2.50
2041	George L. Harding, Binghamton, N. Y. Harding's Uncle Sam Baby Chick Food	Binghamton	G F	12. 12.80	5. 3.40	2.40
2263	Harvey Seed Co., Buffalo, N. Y. Electric Poultry Food	Buffalo	G F	12. 14.80	3. 4.40	4.30
2237	Stephen Hollands, Hornell, N. Y. Soft Feed for Chickens	Hornell	G F	— 13.80	— 4.60	7.30
2128	Husted Milling Co., Buffalo, N. Y. Husted's Forcing Mash	Buffalo	G F	19. 19.	5. 5.90	7.

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Collection No.	Name and address of manufacturer or jobber and brand or trade name.	Sampled at		Crude protein.	Crude fat.	Fiber.
	POULTRY FOODS (COMPOUNDED):			<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
2125	Husted Milling Co., Buffalo, N. Y. Husted's Laying Mash	Buffalo	G F	15. 15.50	3. 5.20	5.40
2123	Husted Milling Co., Buffalo, N. Y. Husted's Poultry Feed	Buffalo	G F	12. 14.90	4. 4.60	6.70
2191	McCoy & Best, Peekskill, N. Y. "C" Poultry Feed	Matteawan	G F	20.40	7.00	
2151	Model Milling Co., Buffalo, N. Y. Model Broiler Mash	Buffalo	G F	19. 24.	4. 5.80	4.40
2150	Model Milling Co., Buffalo, N. Y. Model Egg Mash	Buffalo	G F	20. 26.30	4.50 6.30	5.
2153	Model Milling Co., Buffalo, N. Y. Model Growing Chick Food	Buffalo	G F	11. 11.10	3.30 3.10	3.50
2131	Model Milling Co., Buffalo, N. Y. Model Nursery Chick Food	Buffalo	G F	10.50 11.10	2.75 3.30	2.20
2152	Model Milling Co., Buffalo, N. Y. Model Scratching Food	Buffalo	G F	12. 11.80	2.50 3.30	2.30
2200	Purina Mills, St. Louis, Mo. Purina Mash	Ossining	G F	17. 17.60	5. 3.10	11.90
2060	Purina Mills St. Louis, Mo. Purina Mills Chick Feed	Homer	G F	11. 10.90	3.60 3.80	2.70
2164	The Quaker Oats Co., Chicago, Ill. American Poultry Feed	Hoosick Falls	G F	12. 12.60	3.50 5.40	4.30
2206	Spratt's Patent (America) Ltd., Newark, N. J. Spratt's Patent Chick Meal No. 5	New York	G F	19.30	2.90	

* G and F stand respectively for Guaranteed and Found.

Col- lec- tion (No.	Name and address of manufacturer or jobber and brand or trade name.	Sampled at		Crude protein.	Crude fat.	Fiber.
	POULTRY FOODS (COMPOUNDED):			Per ct.	Per ct.	Per ct.
2210	Star Incubator Co., Bound Brook, N. J. Star Poultry Food for Morn- ing Mash	New York	G F	17.13 9.70	2.62 2.60	3.90
2196	L. R. Wallace, Middletown, N. Y. Mapes' Balanced Ration for Poultry	Newburgh	G F	14. 12.80	4.50 4.40	3.10
2172	BEET-SUGAR-WASTES: The Larrowe Milling Co., New York, N. Y. Dried Beet Pulp	Patterson	G F	8.50 8.60	.50 .90	18.20
2277	OAT BY-PRODUCTS: The Great Western Cereal Co., Chicago, Ill. Royal Oat Feed	Camden	G F	7.60 4.80	2.80 1.40	25.30
2278	The American Cereal Co., Chicago, Ill. Vim Oat Feed	Camden	G F	5. 5.30	2. 1.60	26.90
2033	BARLEY BY-PRODUCTS: Allen V. Smith, Marcellus Falls, N. Y. Allen V. Smith's Barley Feed	Sherburne	G F	13.00 13.60	3. 4.50	9.70
2061	Ryan Brothers, Jamesville, N. Y. Barley Feed	Phoenix	G F	11.60 13.40	3.80 4.30	8.20
2102	UNCLASSIFIED: Alfalfa Meal Co., Omaha, Neb. Payne's Alfalfa Meal	Rochester	G F	 16.60	 1.40	28.20
2056	American Cereal Co., Chicago, Ill., Buckeye Mixed Feed	Cortland	G F	13. 15.90	4. 5.50	6.60
2287	Bernheim Distilling Co., Louisville, Ky. Distillers' Dried Grains	Haynes	G F	20.90 11.50	7.41 6.60	

* G and F stand respectively for Guaranteed and Found.

Col- lection No.	Name and address of manufacturer or jobber and brand or trade name.	Sampled at		Crude protein	Crude fat.	Fiber.
	UNCLASSIFIED:			<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
2084	Cape Vincent Seed Co., Cape Vincent, N. Y. H. U. Pea Meal	Cape Vincent	G F	19.21 18.20	1.72 1.60	23.
2086	Cleveland Seed Co., Cape Vincent, N. Y. Pea Meal	Cape Vincent	G F	— 21.	— 1.40	17.50
2029	R. D. Eaton Grain & Feed Co., Norwich, N. Y. Pea Meal	Norwich	G F	— 30.10	— 2.80	5.90
2286	The High Spire Distillery Co., Highspire, Pa. Rye Grains	Haynes	G F	17.94 18.50	8.25 8.40	
2294	Hottelet & Co., Milwaukee, Wis. Dried Distillers' Grains	Stamford	G F	18. 15.50	6. 6.50	14.
2281	Husted Milling & Elevator Co. Buffalo, N. Y. Distillers' Dried Grains	Malone	G F	15. 15.80	4. 6.50	17.
2016	C. R. Lull, Milwaukee, Wis. Ground Flax Flakes	Afton	G F	17.34 16.70	17.37 11.40	10.70
2189	C. R. Lull, Milwaukee, Wis. Ground Flax Flakes	Poughkeepsie	G F	17.34 16.40	17.73 12.10	11.30
2117	The Natural Food Co., Niagara Falls, N. Y. Shredded Wheat Waste for Dogs	Niagara Falls	G F	— 11.80	— 1.80	2.
2004	Thompson & Mould, Goshen, N. Y. Wellington Gluten	Delhi	G F	10.25 12.90	2.25 3.80	4.60
2225	Thompson & Mould, Goshen, N. Y. Wellington Gluten No. 150	Monroe	G F	13.50 14.10	3.05 3.04	4.20
2285	Unknown Prime Rye Dried Grains	Haynes	G F	19.25 15.50	8.84 9.	

* G and F stand respectively for Guaranteed and Found.

RESULTS OF INSPECTION OF CONCENTRATED COMMERCIAL FEEDING STUFFS FOR 1907-8.

NUMBER AND KINDS OF BRANDS LICENSED.

The brands of feeding stuffs licensed in each of the several classes prior to May 7, 1908, are in number as follows:

Cottonseed-meals.....	10
Linseed meals.....	10
Gluten feeds.....	12
Corn brans.....	3
Dried distillers' grains.....	15
Malt sprouts.....	27
Dried brewers' grains.....	8
Hominy feeds.....	20
Compounded feeds.....	104
Animal products.....	26
Poultry foods (compounded).....	33
Barley products.....	2
Unclassified.....	12
Total.....	282

NUMBER AND KINDS OF BRANDS INSPECTED.

The number of samples of each brand forwarded to this Station for analysis for 1907-8 may be seen in the following table, which also shows the number of samples materially below the guaranteed composition:

Classification.	Number of brands sampled.	Number of samples analyzed.	Number of samples materially below guarantee.
Cottonseed meals	11	20	1
Linseed meals.....	11	11	1
Gluten feeds.....	12	12	5
Corn brans.....	2	2	0
Dried distillers' grain.....	10	11	0
Malt sprouts.....	25	26	1
Dried brewers' grains.....	10	10	0
Hominy feeds.....	15	16	0
Compounded feeds.....	96	99	9
Animals products.....	35	36	6
Poultry foods (compounded).	34	34	1
Beet-sugar wastes.....	1	1	0
Oat by-products.....	2	2	1
Barley by-products.....	2	2	0
Unclassified	13	15	3
	279	297	28

The showing for the inspection of 1907-1908 is very much better than that from 1906-1907. In the former year 69 samples were found to be materially below guarantee, which is practically two and one-half times as many as those reported deficient in this bulletin.

THE CHARACTER AND VALUE OF CONCENTRATED COMMERCIAL FEEDING STUFFS FOUND IN THE MARKETS OF NEW YORK.

INFERIOR COMPOUNDED FEEDS.

It is important for purchasers of commercial feeding stuffs to understand that a determination of the percentages of protein and fat in such materials comes far short of showing fully their character and value. It is possible to so compound a feeding stuff, as for instance by the use of oat hulls, hominy chop and cotton seed meal, that it appears to be of a good standard, as measured by the percentages of protein and fat, while it really may be inferior because of the presence of a large proportion of highly indigestible fibre. The accompaniments of the protein and fat should always be considered. It is for this reason that purchasers of cattle foods should do more than merely consult the guarantees as now required in the State of New York. They should also carefully investigate the nature of the ingredients of the feed to be purchased.

It is interesting, and to purchasers it certainly is profitable, to inquire more closely into the character of feed offered for sale in New York than is required merely for the purposes of legal inspection. A glance at the two preceding tables shows that there were licensed for sale in 1907, 137 compounded feeds,—48.6 per ct. of the total number of brands,—and that of the brands analyzed 130 belong to the compounded class,—46.6 per ct. of the total number of brands analyzed. The most significant fact in this connection is that in a large number of cases these feeds are compounded for the purpose of introducing some inferior or cheap ingredient in order that it may be sold at grain prices when otherwise it would be unmarketable.

There are two ways of detecting inferior or undesirable ingredients in a compounded cattle feed. One way is by chemical analysis. It is safe to say that when, by analysis, a feed is found to contain less than 9 per ct. of crude protein and more than 10 per ct. of crude fiber, this feed becomes an object of suspicion. It is hardly

possible to compound a mixture out of the farm grains, or out of the desirable by-product feeding stuffs, and have it contain as low percentage of protein as 9 per ct. with an accompanying percentage of fibre as high as 10 per ct., without introducing into it some material like oat hulls, corn cobs or other coarse material. Even when a compounded feed carries considerable more than 9 per ct. of protein, even twice as much, a high percentage of fiber is an indication of inferiority because of the introduction of some highly fibrous material. Chemical analysis may be used also to detect undesirable ingredients such as acids.

The other way of detecting inferior ingredients in feeding stuffs is by mechanical or microscopic study of the various mixtures. In this way an excess of oat hulls, the presence of corn cobs, weed seeds and other ingredients may be easily ascertained. With a large number of the compounded feeds analyzed during the past season the proportion of protein and fiber and the general appearance of the mixtures, or other reasons, led to a more detailed examination than the mere determination of protein and fat. Not only have the percentages of protein, fat and fiber been determined, but these mixtures have been studied with reference to the ingredients from which they were compounded. The results for thirty-eight brands are given in the following table:

COMPONENTS OF COMPOUNDED

Sample No.	Brand name and manufacturer or jobber.		Protein.	Fat.	Fiber.
			<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
2008	J. H. Rodebaugh, Buffalo, N. Y. Stone Mills Mixed Feed	G F	10.0 9.7	2.5 3.1	 14.6
2010	Western Dairy Feed Co., Milwaukee, Wis. Red Cow Dairy Feed.	G F	16.5 15.8	3.5 3.1	 9.9
2017	The Toledo Elevator Co., Toledo, Ohio. Star Feed.	G F	7.0 8.1	6.0 5.7	 9.9
2058	The American Cereal Co., Chicago, Ill. Schumacher's Stock Feed.	G F	10.0 10.1	4.0 4.1	 11.5
2064	The American Milling Co., Chicago, Ill. Sucrene Horse, Mule and Ox Feed.	G F	10.0 14.3	3.0 4.4	10.2
2065	American Milling Co., Chicago, Ill. Sucrene Dairy Feed.	G F	16.5 16.7	3.5 4.7	10.6
2067	Milwaukee Molasses Feed Co., Milwaukee, Wis. Prize Dairy Feed.	G F	18.0 15.7	3.0 5.2	12.5
2068	The American Cereal Co., Chicago, Ill. Victor Feed.	G F	7.5 8.1	3.0 3.1	10.0
2073	The Great Western Cereal Co., Chicago, Ill. Daisy Dairy Feed.	G F	16.0 20.4	3.0 3.7	10.4
2076	Husted Milling Co., Buffalo, N. Y. Corn and oats fine ground "B".	G F	9.0 8.1	3.0 3.2	11.8

FEEDS FOR SALE DURING 1907-8

Sample No.	Ingredients found.*	Species of weed seeds.	Germination of weed seeds.
			<i>Per ct.</i>
2008	Mixed feed, ground corn cob.		
2010	Molasses, brewers grains, sprouts, salt.		
2017	Hominy, ground corn cob.		
2058	Oat hulls, ground oats, corn bran, salt.		
2064	Molasses, oat hulls, corn meal, salt, weed seeds.	Wild buckwheat, mustard, dock, night flowering catch fly, false flax, pepper grass, lambs quarters, rag weed, yellow foxtail, lady's thumb, shepherd's purse, green fox tail.	False flax 25%. Lambs quarters 2%
2065	Brewers grains, molasses, salt, weed seeds.	Yellow foxtail, green foxtail, charlock, flax seed, wild buckwheat, pigweed, dock, false flax, pepper grass.	None.
2067	Molasses, brewers grains, oat hulls, oat glumes, salt, weed seeds.	Broad leaved plantain, mustard, English plantain, ¹ dock, wild carrot, bull thistle, wild buckwheat, yellow foxtail.	Mustard 3%. English plantain 50%. Dock 20%. Yellow fox-tail 6%.
2068	Corn meal, oat refuse, salt.		
2073	Brewers grains, sprouts, corn meal, molasses, salt.		
2076	Corn meal, oat hulls, ground oats, salt, wheat.		

*Other ingredients may be present in very small quantities.

¹Also known as narrow leaved plantain or buckhorn.

Sample No.	Brand name and manufacturer or jobber.		Protein.	Fat.	Fiber.
			<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
2146	Lackawanna Mill & Elevator Co., Buffalo, N. Y. Special Corn and Oat Feed.	G F	5.0 12.0	2.0 3.5	10.9
2155	Indiana Milling Co., Terre Haute, Ind. Jersey Mixed Feed.	G F	12.05 9.8	3.20 3.1	16.3
2166	The Quaker Oats Co., Chicago, Ill. Schumacher's F. S. Stock Food.	G F	10.0 11.1	4.0 4.0	10.8
2169	Francis Duhne, Jr., Milwaukee, Wis. Molasses Milk Feed.	G F	15.0 12.9	3.0 3.3	16.1
2170	Western Grain Products Co., Hammond, Ind. Hammond Dairy Feed.	G F	17.0 14.9	3.0 4.1	9.7
2174	Young & Halstead Co., Mount Kisco, N. Y. No. 2 Feed.	G F	9.6	3.3	11.2
2180	Matthews & Harrison, Kingston, N. Y. Arcade Mixed Feed.	G F	10.42 9.70	5.86 4.70	11.60
2190	F. W. Goeke & Co., St. Louis, Mo. Holstein Sugar Feed Dairy Feed.	G F	15.0 14.6	3.0 3.0	15.5
2192	Chas. A. Krause Milling Co., Milwaukee, Wis. Badger Dairy Feed.	G F	18.0 16.1	4.50 4.30	10.9
2197	Crow & Williams, Ossining, N. Y. Crow & Williams Mixed Feed.	G F	10.0 10.7	4.5 5.4	10.1
2195	The Great Western Cereal Co., Chicago, Ill. Excelsior Chop Feed.	G F	8.0 8.4	3.5 3.2	12.2

Sample No.	Ingredients found.*	Species of weed seeds.	Germination of weed seeds.
2146	Corn meal, oat hulls, ground oats, bran, salt, trace molasses.		<i>Per ct.</i>
2155	Wheat bran, corn cob, salt.		
2166	Corn meal, ground oats, oat hulls, middlings, salt.		
2169	Molasses, sprouts, rice hulls, corn meal, salt, weed seeds.	Yellow foxtail, brassica, dock, red clover, pepper grass, crab grass, lambs quarters, millet, timothy, night-blooming catchfly	None.
2170	Molasses, sprouts, brewers grains, oat hulls, salt, weed seeds.	Charlack, wild buckwheat, green foxtail, lady's thumb, lambs quarters, English plantain, broad leaved plantain, brassica, red clover, timothy.	None.
2174	Corn meal, corn bran, oat hulls, oats ground, salt.		
2180	Corn meal, ground oats, salt, oat hulls, oat refuse, bran.		
2190	Molasses, brewers grains, sprouts, rice hulls, salt, weed seeds.	Mustard, dock, corn cockle, pepper grass, red clover, lady's thumb, green foxtail, yellow foxtail.	Red clover 100%.
2192	Molasses, brewers grains, sprouts, oat hulls, corn bran, straw, salt, weed seeds.	Mustard, flax, lady's thumb, yellow foxtail, lambs quarters.	Flax 33 $\frac{1}{3}$ %.
2197	Mixed feed, oat hulls, corn meal, salt.		
2195	Cracked corn, oat hulls, oat refuse, salt.		

*Other ingredients may be present in very small quantities.

Sample No.	Brand name and manufacturer or jobber.		Protein.	Fat.	Fiber.
			<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
2202	The Corno Mills, East St. Louis, Mo. Corno Horse and Mule Feed.	G F	10.0 10.1	3.5 4.1	12.7
2204	American Milling Co., Owensboro, Ky. Sucrene Horse Feed.	G F	13.5 11.8	3.5 4.3	9.5
2011	Francis Duhne, Jr., Milwaukee, Wis. Three Star Molasses Feed.	G F	15.0 13.4	3.0 3.2	15.8
2212	J. & T. Adikes, Jamaica, N. Y. Adikes' Ground Feed.	G F	8.75 10.0	3.0 3.1	9.5
2214	The Sugarine Co., Chicago, Ill. Sugarine Dairy Feed.	G F	16.5 17.6	3.5 4.4	9.7
2221	C. A. Krause Milling Co., Milwaukee, Wis. Badger Dairy Feed.	G F	18.0 15.3	4.5 5.1	10.8
2228	The American Cereal Co., Chicago, Ill. Quaker Dairy Feed.	G F	12.0 12.6	3.0 3.3	16.3
2234	Ames-Burns Co., Jamestown, N. Y. Ever Ready Dairy Feed.	G F	18.0 13.6	3.0 3.7	10.1
2239	Acme Milling Co., Olean, N. Y. Acme Feed.	G F	8.5 8.4	4.5 3.9	9.9
2241	Neff's Mills, Salamanca, N. Y. Chop Feed.	G F	6.0 7.4	2.0 3.4	12.0

Sample No.	Ingredients found.*	Species of weed seeds.	Germination of weed seeds.
2202	Cracked corn, oat hulls, ground alfalfa, salt.		<i>Per ct.</i>
2204	Molasses, cracked corn, brewers grains, salt.		
2011	Molasses, sprouts, corn meal, rice hulls, salt, weed seeds.	<i>Lysidium virginicum</i> , dock, red clover, white clover, wild buckwheat, charlock, persicana, lambs quarters, night-flowering catchfly <i>Chaetochloa italica</i> , <i>Chaetochloa glauca</i> , <i>Chaetochloa viridis</i> , timothy, crab grass.	None.
2212	Cracked corn, oat hulls, sprouts, salt.		
2214	Molasses, brewers grains, corn bran, probably from distillery grains, salt, weed seeds.	Lady's thumb, green foxtail, brassica, wild buckwheat, flax, false flax, dock, lambs quarters, chick weed, yellow foxtail, bracted plantain.	None.
2221	Molasses, brewers grains, sprouts, oat hulls, corn bran, straw, salt, weed seeds.	Brassica, lady's thumb, wild buckwheat, night flowering catchfly, yellow fox-tail, lambs quarters.	None.
2228	Oat hulls, cottonseed meal, oat refuse, corn meal, salt.		
2234	Molasses, brewers grains, oats, oat refuse, oat hulls, straw, salt, weed seeds.	Wild buckwheat.	
2239	Corn meal, oats, oat hulls, salt.		
2241	Corn meal, oat hulls, oat refuse, ground oats, salt.		

*Other ingredients may be present in very small quantities.

Sample No.	Brand name and manufacturer or jobber.		Protein.	Fat.	Fiber.
			<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
2248	Barber Consolidated Feed Co., Buffalo, N. Y. Economy Sugar Feed.	G	15.0	3.0	14.7
		F	14.3	4.5	
2257	Ellsworth & Co., Buffalo, N. Y. De-fi Corn and Oat Feed.	G	8.0	3.0	14.3
		F	8.5	3.5	
2259	Ellsworth & Co., Buffalo, N. Y. The H. O. Co.'s Algrane Horse Feed.	G	12.	4.5	10.7
		F	12.3	4.8	
2260	Ellsworth & Co., Buffalo, N. Y. The H. O. Co.'s Algrane Milk Feed.	G	14.0	4.0	12.3
		F	17.0	3.9	
2262	Ellsworth & Co., Buffalo, N. Y. The H. O. Co.'s Jim Dandy Feed.	G	7.5	2.75	23.9
		F	7.9	2.80	
2283	The American Cereal Co., Chicago, Ill. C. Feed.	G	9.5	3.0	10.7
		F	8.4	3.7	
2292	Oneonta Milling Co., Albany, N. Y. Bran.	G			11.4
		F	14.4	6.3	

An examination of this table shows several important facts:

(1) Nearly all of these compounded feeds contain either oat hulls greatly in excess of what belong to the ground oats present, or ground corn cobs.

(2) The molasses feeds, of which there are twelve brands shown in the above table, nearly all contained a great variety of weed seeds, some of which are noxious weeds such as mustard, charlock, wild carrot and English plantain (narrow leaved plantain, buck-horn). Germination tests show that in several cases these seeds have not lost the power of germination. For instance, in sample 2067,

Sample No.	Ingredients found.*	Species of weed seeds.	Germination of weed seeds.
2248	Molasses, brewers grains, sprouts, oats, rice hulls, salt, weed seeds.	Mustard, sheep sorrel, night flowering catchfly, dock, corn cockle, English plantain, wild buckwheat, flax, lady's thumb, green fox-tail, bracted plantain, broad leaved plantain, lambs quarters, sunflower.	<i>Per ct.</i> Mustard 24%.
2257	Corn meal, ground oats, oat hulls, salt.		
2259	Corn meal, ground oats, oat hulls, middlings, salt.		
2260	Corn meal, ground oats, oat hulls, gluten meal, salt.		
2262	Oat refuse, much oat hulls, ground oats.		
2283	Cracked corn, ground oats, oat refuse, oat hulls, salt.		
2292	Bran, oats, oat hulls.		

*Other ingredients may be present in very small quantities.

50 per cent. of the English plantain seed germinated. It is beyond question possible for these seeds to reach the soil without having lost their germinating power. Moreover, these weed seeds have an unknown nutritive value, and unquestionably many of them having highly resistant coatings pass through the animals undigested. These seeds are, therefore, not only a menace to the land but to the productiveness of the animals that are receiving these molasses feeds on the assumption that they take the place of pure, sound farm grains or of other standard feeding stuffs.

NEW CONDITIONS WITH GLUTEN FEEDS.

One of the most surprising of the recent developments in the feeding stuffs market is the discovery that certain brands of gluten feeds not only contain a large amount of artificial coloring matter but are also very acid. The Station has examined twelve brands for the purpose of testing them for coloring matter and acidity, and the results appear in the table which follows:

ACIDITY AND COLOR IN GLUTEN FEEDS,

Sample No.	Brand.	No. CC N10 KOH	Total acidity HCl %	Appearance of sample.	Color.
2003	Warner's Gluten Feed	2.9	.53	Reddish yellow	Colored
2018	Buffalo Gluten Feed	2.2	.40	Reddish yellow	Colored
2021	Cedar Rapids Gluten Feed	.6	.11	Normal	No coloration
2024	Clinton Gluten Feed	.5	.09	Normal	No coloration
2039	Pekin Gluten Feed	2.3	.42	Reddish yellow	Colored
2075	Queen Gluten	.6	.11	Normal	No coloration
2144	Tiger Gluten	2.0	.37	Reddish yellow	Colored
2156	Globe Gluten Feed	5.0	.91	Very dark	Colored
2177	Gluten Feed	.7	.13	Normal	No coloration
2215	Jenks Gluten Feed	1.7	.31	Canary color	Colored
2217	P. Bro. Gluten Feed	.6	.11	Normal	No coloration
2225	Wellington Gluten Feed No. 150	.9	.16	Reddish yellow	Colored

This table shows that coloring matter had been introduced into seven of the brands examined, five showing no coloration. One significant fact is that these artificially colored feeds contain a considerable proportion of acid, mostly hydrochloric acid, which is much larger in the colored, than in the uncolored, feeds. Sulphuric acid was present only in traces with the exception of sample 2156 which showed .18 of one per cent. of SO_3 . This was probably a residue from the sulphurous acid used in manufacture. As an explanation of the combination of coloring matter and acid, it can only be surmised that the acid was added as a mordant, that is, as a fixer of the coloring matter.

The influence of these ingredients in gluten feeds upon the health of animals cannot be stated on the basis of experimental evidence. A farmer should hesitate, however, to feed his cows any material containing from 0.4 to 0.9 per cent. of free mineral acid and he may also properly object to feeding artificial coloring matters which doubtless are coal tar products.

To summarize, it may be said that the special examinations that have been given to these fifty feeds show the following important facts:

- (1) Many of these feeds contain generous proportions of ingredients that have a very inferior nutritive value.

- (2) The molasses feeds contain a great variety of weed seeds some of which have retained their germinating power and are a menace to the land.

- (3) The gluten feeds are found to contain artificial coloring matter and considerable free acid, largely hydrochloric, which ingredients render these feeds of doubtful healthfulness.

CORRECTION.

The percentage of protein in sample No. 919, Brewer's Grains, manufactured by Farmers Feed Co., New York, N. Y., should be 27.7 instead of 22.3 as given in Bul. No. 291.