

BULLETIN No. 316

AUGUST, 1909

New York Agricultural Experiment Station

GENEVA, N. Y.

INSPECTION OF FEEDING STUFFS



PUBLISHED BY THE STATION.

BOARD OF CONTROL.

GOVERNOR CHARLES E. HUGHES, Albany.
 COMMISSIONER RAYMOND A. PEARSON, Albany.
 LYMAN P. HAVILAND, Camden.
 EDGAR G. DUSENBURY, Portville.
 THOMAS B. WILSON, Halls Corners.
 IRVING ROUSE, Rochester.
 ALFRED G. LEWIS, Geneva.
 LEWIS L. MORRELL, Kinderhook.
 ELIHU S. MILLER, Wading River.

OFFICERS OF THE BOARD;

THOMAS B. WILSON,
President.

WILLIAM O'HANLON,
Secretary and Treasurer.

EXECUTIVE COMMITTEE.

STEPHEN H. HAMMOND,

THOMAS B. WILSON.

LYMAN P. HAVILAND,

STATION STAFF.

WHITMAN H. JORDAN, Sc.D., LL.D., *Director.*

GEORGE W. CHURCHILL, <i>Agriculturist and Superintendent of Labor.</i>	PERCIVAL J. PARROTT, M.A., <i>Entomologist.</i>
WILLIAM P. WHEELER, <i>First Assistant (Animal Industry).</i>	HAROLD E. HODGKISS, B.S., WILLIAM J. SCHOENE, B.AGR., <i>Assistant Entomologists.</i>
FRED C. STEWART, M.S., <i>Botanist.</i>	ULYSSES P. HEDRICK, M.S., <i>Horticulturist.</i>
JOHN G. GROSSENBACHER, Pd.B., A.B., <i>Associate Botanist.</i>	RICHARD WELLINGTON, B.S., MAXWELL J. DORSEY, B.S., W. H. ALDERMAN, B.S.AGR., <i>Assistant Horticulturists.</i>
G. TALBOT FRENCH, B.S., <i>Assistant Botanist.</i>	ORRIN M. TAYLOR, <i>Foreman in Horticulture.</i>
LUCIUS L. VAN SLYKE, Ph.D., <i>Chemist.</i>	WM. J. YOUNG, B.S., <i>Student Assistant in Horticulture.</i>
ALFRED W. BOSWORTH, B.S., ERNEST L. BAKER, B.S., <i>Associate Chemists.</i>	*F. ATWOOD SIRRINE, M.S., <i>Special Agent.</i>
ARTHUR W. CLARK, B.S., ANTON R. ROSE, B.S., MORGAN P. SWEENEY, A.M., JAMES T. CUSICK, B.S., OTTO MCCREARY, B.S., <i>Assistant Chemists.</i>	†JENNIE TERWILLIGER, <i>Director's Secretary.</i>
HARRY A. HARDING, M.S., <i>Bacteriologist.</i>	FRANK E. NEWTON, WILLARD F. PATCHIN, CORA A. WHITAKER, <i>Clerks and Stenographers.</i>
MARTIN J. PRUCHA, M.S., <i>Associate Bacteriologist.</i>	ADIN H. HORTON, <i>Computer and Mailing Clerk.</i>
JAMES K. WILSON, B.S., <i>Assistant Bacteriologist.</i>	JULIA H. HOEY, ‡DONALD REDDICK, Ph.D., <i>Junior Clerk.</i>
GEORGE A. SMITH, <i>Dairy Expert.</i>	‡F. Z. HARTZELL, M.A., <i>Assistant Botanist.</i>
FRANK H. HALL, B.S., <i>Editor and Librarian.</i>	‡F. E. GLADWIN, B.S., <i>Assistant Entomologist.</i>
	<i>Special Agent.</i>

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. †Absent on leave. ‡Connected with the Chautauqua Grape Work

BULLETIN No. 316.

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 and winter of 1908-9, 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 the brands that are licensed for the year 1909 and 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 1909.

The following is a list of brands of concentrated commercial feeding stuffs licensed prior to July 1, 1909, by the Commissioner of Agriculture for sale in the State of New York during the calendar year 1909, 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 analyses herewith published are made in charge of the Chemical Department of the Station, the immediate oversight of the work being assigned to E. L. Baker, Associate Chemist.

LIST OF BRANDS OF CONCENTRATED COMMERCIAL FEEDING STUFFS LICENSED
BY THE COMMISSIONER OF AGRICULTURE PRIOR TO JULY 1, 1909, WITH
THE GUARANTEES OF SAME.

Name and address of manufacturer or jobber.	Brand or trade name.	GUARANTEED ANALYSIS.	
		Crude protein.	Crude fat.
Acme Milling Co., Olean, N. Y.....	Acme Feed.....	<i>Per ct.</i> 7.	<i>Per ct.</i> 3.
J. & T. Adikes, Jamaica, N. Y.....	Ground Feed.....	8.75	3.
Ajax Milling & Feed Co., New York, N. Y.....	Ajax Flakes.....	31.	12.
Akron Produce Co., Akron, N. Y....	Bower's Dairy Ration.....	24.	6.
The Alfalfa Meal & Milling Co., Cherokee, Okla.....	Maza Flora Stock Feed....	14.	3.50
The Alfalfa Products Co., Fremont, Nebraska.....	Alfalfa-Lass.....	13.	1.
The American Alfalfa Food Co., Wichita, Kansas.....	Acme Dairy Food.....	17.62	3.29
The American Alfalfa Food Co., Wichita, Kansas.....	Acme Horse Feed.....	14.50	3.12
American Brokerage Co., Memphis, Tenn.....	Eagle Brand Choice Finely Ground Cotton Seed Meal	41.	9.
American Brokerage Co., Memphis, Tenn.....	Eagle Brand Cotton Seed Meal.....	25.	5.
The American Cotton Oil Co., New York, N. Y.....	Choice Cottonseed Meal..	41.	9.
American Hominy Co., Indianapolis, Ind.....	Homco Feed.....	8.50	7.
American Hominy Co., Indianapolis, Ind.....	Valor Feed.....	5.	2.50
American Hominy Co., Indianapolis, Ind.....	Hexagon Feed.....	6.	5.
American Hominy Co., Indianapolis, Ind.....	Hex Dairy.....	12.	.4
American Linseed Co., New York, N. Y.....	Cleveland Flax Meal or Linseed.....	36.	1.
American Linseed Co., New York, N. Y.....	Old Process Oil Meal.....	32.	5.
American Maize Products Co., Roby, Ind.....	Cream of Corn Gluten Feed.	23.	2.50
American Malting Co., New York, N. Y.....	Malt Sprouts.....	25.	2.
American Milling Co., Chicago, Ill..	Sucrene Dairy Feed.....	16.50	3.50
American Milling Co., Chicago, Ill..	Sucrene Horse & Mule Feed	10.	3.
Ames-Burns Co., Jamestown, N. Y.	A. B. C. Cattle Feed.....	20.	8.
Ames-Burns Co., Jamestown, N. Y.	A. B. C. Consolidated Dairy Feed.....	16.	3.50
Ames-Burns Co., Jamestown, N. Y.	A. B. C. Distillers' Grains.	30.	10.

Name and address of manufacturer or jobber.	Brand or trade name.	GUARANTEED ANALYSIS.	
		Crude protein.	Crude fat.
		Per ct.	Per ct.
Andrews, Son & Co., Penn Yan, N. Y.	2 Chop Feed.....	11.50	4.25
The Armour Fertilizer Works, Chicago, Ill.	Beef Scraps.....	55.	12.
The Armour Fertilizer Works, Chicago, Ill.	Blood Meal.....	80.	0.0
The Armour Fertilizer Works, Chicago, Ill.	Feeding Bone Flour.....	23.	1.
The Armour Fertilizer Works, Chicago, Ill.	Meat & Bone.....	42.	8.
The Armour Fertilizer Works, Chicago, Ill.	Meat Meal.....	50.	10.
The Armour Fertilizer Works, Chicago, Ill.	Poultry Bone.....	25.	.50
The Armour Fertilizer Works, Chicago, Ill.	60% Meat Meal.....	60.	2.
Atlantic Export Co. of Wisconsin, Chicago, Ill.	Dried Brewers' Grains.....	27.	7.
Atlantic Export Co. of Wisconsin, Chicago, Ill.	Malt Sprouts.....	25.	1.50
Atlas Distillery Co., Peoria, Ill.	Manhattan Feed.....	31.	10.
P. Ballantine & Sons, Newark, N. J.	Malt Sprouts.....	25.02	1.69
M. F. Baringer, Philadelphia, Pa.	Dried Brewers' Grains.....	25.	6.
M. F. Baringer, Philadelphia, Pa.	Hominy Feed.....	9.	6.
M. F. Baringer, Philadelphia, Pa.	Distillers' Grains.....	28.	9.
M. F. Baringer, Philadelphia, Pa.	M. F. B. Dairy Feed.....	24.	4.
M. F. Baringer, Philadelphia, Pa.	Pure Corn Bran.....	7.	5.
Bartholomay Brewery Co., Rochester, N. Y.	Dried Brewers' Grains.....	20.72	5.03
Bartholomay Brewery Co., Rochester, N. Y.	Malt Sprouts.....	23.14	1.79
J. W. Barwell, Waukegan, Ill.	Blatchford's Calf Meal.....	25.	5.
W. P. Battle & Co., Memphis, Tenn.	Battle Brand Choice Cotton Seed Meal.....	41.	8.
The Beck Cereal Co., Detroit, Mich.	Royal Corn & Oat Chop Feed.....	8.31	5.10
Burr Bentley, Delanson, N. Y.	Fresh Cut Meat & Bone for Poultry.....	25.	5.
The Berg Co., Philadelphia, Pa.	3 Medal Poultry Meat.....	50.	13.
The J. W. Biles Co., Cincinnati, O.	Biles Fourex (XXXX) Grains.....	31.	12.
The J. W. Biles Co., Cincinnati, O.	Biles' Malt Sprouts.....	23.	1.
The J. W. Biles Co., Cincinnati, O.	Biles' Onex (X) Grains.....	22.	8.
The J. W. Biles Co., Cincinnati, O.	Biles' Twoex (XX) Grains.....	27.	8.
The J. W. Biles Co., Cincinnati, O.	Ubiko Horse & Stock Food.....	16.	6.
The J. W. Biles Co., Cincinnati, O.	Union Grains (UBIKO) Biles' Ready Ration.....	24.	7.
The Birkett Mills, Penn Yan, N. Y.	Buckwheat Bran & Corn....	5.94	2.02

Name and address of manufacturer or jobber.	Brand or trade name.	GUARANTEED ANALYSIS.	
		Crude protein.	Crude fat.
		<i>Per ct.</i>	<i>Per ct.</i>
Bowker Fertilizer Co., New York, N. Y.....	Bowker's Animal Meal.....	40.	5.
Bowker Fertilizer Co., New York, N. Y.....	Bowker's Beef Scrap.....	30.	20.
S. W. Bowne Co., Brooklyn, N. Y..	Bowne's Pure Grain Poultry Food.....	10.	2.
S. W. Bowne Co., Brooklyn, N. Y..	Ground Feed.....	8.	3.25
H. F. Brehm, Waterloo, N. Y.....	Brehm's Beef Scraps.....	40.	15.
F. W. Brode & Co., Memphis, Tenn.	Owl Brand Pure Cotton Seed Meal.....	41.	7.
The Brooklyn Elevator & Milling Co., Brooklyn, N. Y.....	Ground Feed... ..	9.	3.
The Buckeye Cotton Oil Co., Cincinnati, O.....	Buckeye Brand Prime Cotton Seed Meal.....	39.	6.50
Buffalo Cereal Co., Buffalo, N. Y...	Bufceco Chop Feed.....	7.	3.
Buffalo Cereal Co., Buffalo, N. Y...	Bufceco Creamery Feed...	18.	4.
Buffalo Cereal Co., Buffalo, N. Y...	Bufceco Dairy Feed.....	12.	3.
Buffalo Cereal Co., Buffalo, N. Y...	Bufceco Hominy Feed.....	10.25	8.50
Buffalo Cereal Co., Buffalo, N. Y...	Bufceco Horse Feed.....	10.	4.
Buffalo Cereal Co., Buffalo, N. Y...	Bufceco Poultry Feed.....	15.	4.
Buffalo Cereal Co., Buffalo, N. Y...	Bufceco Stock Feed.....	8.	4.
Burlington Rendering Co., Burlington, Vt.....	Burlington Beef Scraps...	40.	15.
H. V. Burns, Buffalo, N. Y.....	Malt Sprouts.....	23.70	2.70
J. Andrew Cain, Versailles, Ky.....	Hope Mills Millfeed.....	15.25	4.25
Cape Vincent Seed Co., Cape Vincent, N. Y.....	H. U. Pea Meal.....	19.21	1.72
Chapin & Co., Buffalo, N. Y.....	A. A A Distillers' Grains. .	27.	8.
Chapin & Co., Milwaukee, Wis.....	Acorn Dairy Ration.....	26.	6.
Chapin & Co., Buffalo, N. Y.....	Cornola Distillers' Grains..	29.	8.
Chapin & Co., St. Louis, Mo.....	Green Diamond Cottonseed Meal.....	41.	8.
Chapin & Co., Milwaukee, Wis.....	Pure Linseed Oil Meal.....	33.	7.
Chapin & Co., Milwaukee, Wis.....	Unicorn Dairy Ration.....	26.	6.
Chase, Hibbard Milling Co., Elmira, N. Y.....	Blue Ribbon Poultry Feed.	8.	4.
Clark & Mercer, Baldwinsville, N. Y.	Meal & Bran.....	12.05	4.15
A. L. Clements & Co., New York, N. Y.....	Old Process Oil Meal.....	28.	5.
The Cleveland Seed Co., Avon, N. Y.	Pea Meal.....	21.	1.90
Clinton Milling & Grain Co., Plattsburg, N. Y.....	Derby Feed.....	7.01	4.26
Clinton Sugar Refining Co., Clinton, Iowa.....	Clinton Gluten Feed.....	23.	3.
Columbia Distilling Co., Waterloo, N. Y.....	Distillers' Dried Malt Grains.....	25.	8.

Name and address of manufacturer or jobber.	Brand or trade name.	GUARANTEED ANALYSIS.	
		Crude protein.	Crude fat.
		<i>Per ct.</i>	<i>Per ct.</i>
Commercial Milling Co., Detroit, Mich.....	Waumbeck Stable Feed....	9.	5.
E. W. Conklin & Son, Binghamton, N. Y.....	Arrow Chick Food.....	11.50	4.30
E. W. Conklin & Son., Binghamton, N. Y.....	Arrow Egg Food.....	11.45	3.85
Continental Cereal Co., Peoria, Ill..	Continental Gluten Feed..	33.	14.
Corn Products Refining Co., New York, N. Y.....	Buffalo Gluten Feed.....	24.	2.50
Corn Products Refining Co., New York, N. Y.....	Crescent Gluten Feed.....	24.	2.50
Corn Products Refining Co., New York, N. Y.....	Diamond Gluten Feed.....	24.	2.50
Corn Products Refining Co., New York, N. Y.....	Globe Gluten Feed.....	24.	2.50
Corn Products Refining Co., New York, N. Y.....	Tiger Gluten Feed.....	24.	2.50
Corn Products Refining Co., New York, N. Y.....	Warner Gluten Feed.....	23.	2.50
The Corno Mills Co., St. Louis, Mo..	Corno Horse & Mule Feed..	10.	3.50
Corona Milling Co., Greentown, Ind.	Corn Cob Meal.....	1.	.20
Chas. M. Cox Co., Boston, Mass....	Wirthmore Hominy Meal..	9.50	7.50
Geo. Craver's Sons, Binghamton, N. Y.....	C. & S. Chick Food.....	10.0086	4.2017
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.....	Chick Food.....	10.	3.
Cyphers Incubator Co., Buffalo, N. Y.....	Developing Food.....	10.	3.
Cyphers Incubator Co., Buffalo, N. Y.....	Forcing Food.....	12.39	3.80
Cyphers Incubator Co., Buffalo, N. Y.....	High Protein Beef Scrap..	55.	15.
Cyphers Incubator Co., Buffalo, N. Y.....	Laying Food.....	17.31	3.80
Cyphers Incubator Co., Buffalo, N. Y.....	Scratching Food.....	10.	3.
Darling & Co., Chicago, Ill.....	Darling's Alfalfa Meal for Poultry.....	15.	2.
Darling & Co., Chicago, Ill.....	Darling's Beef Meal for Poultry.....	45.	5.
Darling & Co., Chicago, Ill.....	Darling's Beef Scraps for Poultry.....	55.	5.
Darling & Co., Chicago, Ill.....	Darling's Chick Feed for Poultry.....	8.	1.

Name and address of manufacturer or jobber.	Brand or trade name.	GUARANTEED ANALYSIS.	
		Crude protein.	Crude fat.
		<i>Per ct.</i>	<i>Per ct.</i>
Darling & Co., Chicago, Ill.	Darling's Forcing Food for Poultry	15.	3.50
Darling & Co., Chicago, Ill.	Darling's Granulated Bone for Poultry	20.	3.
Darling & Co., Chicago, Ill.	Darling's Laying Food for Poultry	18.	3.50
Darling & Co., Chicago, Ill.	Darling's Raw Bone Meal for Poultry	20.	3.
Darling & Co., Chicago, Ill.	Darling's Scratching Food for Poultry	8.	2.50
Decatur Cereal Co., Decatur, Ill.	OXO Hominy Feed	11.02	7.70
The Dewey Bros. Co., Blanchester, Ohio	Dewey's Distillers' Dried Grains	20.	6.
The Dewey Bros. Co., Blanchester, Ohio	Dewey's Distillers' Dried Grains	30.	12.
The Albert Dickinson Co., Chicago, Ill.	Colonial Developing Feed	10.50	3.
The Albert Dickinson Co. Chicago, Ill.	Crescent Chick Feed	10.50	3.00
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., Plattsburg, N. Y.	Buttercup Dairy Feed	29.80	9.80
Dock & Coal Co., Plattsburg, N. Y.	Dandy Corn & Oat Bran Feed	9.71	5.35
Dock & Coal Co., Plattsburg, N. Y.	Tip-Top Feed	10.	4.
Douglas & Co., Cedar Rapids, Iowa.	Cedar Rapids Gluten Feed	23.	4.
Francis Duhne, Jr., Milwaukee, Wis.	Malt Sprouts	25.	2.
Francis Duhne, Jr., Milwaukee, Wis.	Tomahawk Brand Pure Dried Brewers' Grains	26.	6.
Eaton Buckwheat Milling Co., Eaton, N. Y.	Eaton Horse Feed	8.83	3.16
R. D. Eaton Grain & Feed Co., Norwich, N. Y.	Eaton's Perfection Mash Mixture for Laying Fowls	20.	4.
R. D. Eaton Grain & Feed Co., Norwich, N. Y.	Eaton's Pure Pea Meal	23.	2.
R. D. Eaton Grain & Feed Co., Norwich, N. Y.	Eaton's Special Dairy Feed	10.	3.

Name and address of manufacturer or jobber.	Brand or trade name.	GUARANTEED ANALYSIS.	
		Crude protein.	Crude fat.
		Per ct.	Per ct.
J. & S. Emison & Co., (Baltic Mills) Vincennes, Ind.	Kiln Dried 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.....	25.	6.
Empire Grain & Elevator Co., Binghamton, N. Y.	Neverfail Egg Producer . .	8.75	3.75
Empire Grain & Elevator Co., Binghamton, N. Y.	Pearl Hominy.....	10.12	7.52
Empire Manufacturing Co., Franklinsville, N. Y.	Empire Stock Feed.....	18.	3.
Empire Mills, Olean, N. Y.	Empire Feed.....	7.63	2.97
Evans Milling Co., Indianapolis, Ind.	Evans Hominy Feed....	10.	8.
Everett & Treadwell Co., Kingston, N. Y.	C. O. & W. Feed.....	11.50	3.50
Excelsior Milling Co., Minneapolis, Minn.	Flax Feed.....	15.	5.
Faramel Manufacturing Co., Buffalo, N. Y.	Faramel Dairy Feed. . . .	14.80	1.98
Faramel Manufacturing Co., Buffalo, N. Y.	Faramel Horse Feed.....	9.93	2.98
Farmers Feed Co., New York, N. Y.	Dried Brewers' Grains.....	26.30	7.60
Farmers Feed Co., New York, N. Y.	Malt Sprouts.....	29.90	2.20
Federal Milling Co., Lockport, N. Y.	Mixed Meal.....	7.	2.
Geo. M. Finn, Syracuse, N. Y.	Ground Beef & Bone Scrap		
	Chicken Feed.....	35.	15.
Flint Mill Co., St. Louis, Mo.	Green Diamond Hominy...	10.	7.
Flint Mill Co., Milwaukee, Wis.	Maxon Barley Feed.....	10.	5.
Flint Mill Co., Milwaukee, Wis.	Marvel Malt Sprouts.....	22.	2.
Flint Mill Co., Milwaukee, Wis.	Triangle Calf Feed.....	16.	8.
J. A. Forrest Co., Dixon, Ill.	Pure Hominy Feed.....	7.50	6.50
The L. T. Frisbie Co., New Haven, Conn.	Frisbie's Beef Scraps.....	40.	10.
General Flour & Feed Co., Buffalo, N. Y.	Big 4 Chop	8.31	3.38
General Flour & Feed Co., Buffalo, N. Y.	B Meal.....	7.	3.50
General Flour & Feed Co., Buffalo, N. Y.	Honest Cow Feed.....	24.	6.
General Flour & Feed Co., Buffalo, N. Y.	Standard Meal & Ships.....	11.	3.
Gilbert & Nichols Co., Fulton, N. Y.	Fulton Dairy Feed.....	26.	6.
Geo. H. Gisel & Co., Buffalo, N. Y. .	Niagara Mixed Feed. . . .	11.50	2.
Geo. H. Gisel & Co., Buffalo, N. Y. .	Stone Mills Mixed Feed....	10.	2.
Globe Elevator Co., Buffalo, N. Y. .	Corn Chop.....	7.	2.
Globe Elevator Co., Buffalo, N. Y. .	Dairy Mixed Feed	11.	3.
Globe Elevator Co., Buffalo, N. Y. .	Globe Mill Feed.. . . .	10.	2.

Name and address of manufacturer or jobber.	Brand or trade name.	GUARANTEED ANALYSIS.	
		Crude protein.	Crude fat.
		<i>Per ct.</i>	<i>Per ct.</i>
Globe Elevator Co., Buffalo, N. Y..	International Gluten.....	23.	2.
Globe Elevator Co., Buffalo, N. Y..	International Oil Meal....	30.	6.
Globe Elevator Co., Buffalo, N. Y..	Mixed Corn Meal.....	7.	2.
Globe Elevator Co., Buffalo, N. Y..	No. 1 Corn and Oat Chop..	7.	3.
Globe Elevator Co., Buffalo, N. Y..	Royal Gluten Feed.....	20.	2.
Globe Elevator Co., Buffalo, N. Y..	Special Corn & Oat Chop Feed.....	5.	2.
Globe Molasses Feed Co., Brooklyn, N. Y.....	Globe Molasses Feed.....	5.06	2.05
Good Luck Mills, St. Louis, Mo....	Good Luck Mill Feed Scratch Size.....	9.	3.
John Gorman, Buffalo, N. Y.....	Boat Sweepings.....	5.	2.
The Great Western Cereal Co., Chicago, Ill.....	Boss Chop Feed.....	8.50	3.50
The Great Western Cereal Co., Chicago, Ill.....	Daisy Dairy Feed.....	14.	3.
The Great Western Cereal Co., Chicago, Ill.....	Daisy Horse Feed.....	12.	3.
The Great Western Cereal Co., Chicago, Ill.....	Durham Chop Feed.....	8.50	3.50
The Great Western Cereal Co., Chicago, Ill.....	Gregsons Calf Meal.....	25.	5.
The Great Western Cereal Co., Chicago, Ill.....	Maizefalfa Feed.....	11.	4.
The Great Western Cereal Co., Chicago, Ill.....	Sterling Chick Feed.....	11.	3.50
The Great Western Cereal Co., Chicago, Ill.....	Sterling Scratch Feed.....	11.	3.
The Great Western Cereal Co., Chicago, Ill.....	Sterling Stock Feed.....	10.	4.
Grove Products Co., Warwick, N. Y.	Alpha Meal.....	11.22	1.38
Geo. L. Harding, Binghamton, N. Y.	Harding's Celebrated Meat Meal.....	35.	7.
Geo. L. Harding, Binghamton, N. Y.	Harding's Crushed Bone...	20.	19.
Geo. L. Harding, Binghamton, N. Y.	Harding's Egg Builder Ration.....	10.	3.
Geo. L. Harding, Binghamton, N. Y.	Harding's Uncle Sam Baby Chick Food.....	10.	3.
Geo. L. Harding, Binghamton, N. Y.	Harding's Uncle Sam Beef Scrap.....	40.	7.
W. H. Haskell & Co., Toledo, Ohio.	Haskell's Stock Feed.....	8.	4.
W. H. Haskell & Co., Toledo, Ohio.	Pure Hominy Meal.....	10.25	8.10
Hauenstein & Co., Buffalo, N. Y....	Old Process Linseed Meal..	33.	6.
Henry & Missert, Buffalo, N. Y.....	B. S. Stock Food.....	11.	2.
Henry & Missert, Buffalo, N. Y.....	Holstein Milk Food.....	15.	8.
Chas. Herendeen Milling Co., Chicago, Ill.....	Herendeen's H. O. F. Feed.	11.11	7.
The H-O Company, Buffalo, N. Y..	The H-O Co's. Algrane Horse Feed.....	12.	4.50

Name and address of manufacturer or jobber.	Brand or trade name.	GUARANTEED ANALYSIS.	
		Crude protein.	Crude fat.
		<i>Per ct.</i>	<i>Per ct.</i>
The H-O Company, Buffalo, N. Y..	The H-O Co.'s Algrane Milk Feed.....	4.	4.
The H-O Company, Buffalo, N. Y..	The H-O Co.'s Algrane Poultry Feed.....	17.	5.50
The H-O Company, Buffalo, N. Y..	The H-O Co.'s Algrane Scratching Feed.....	11.	8.50
The H-O Company, Buffalo, N. Y..	The H-O Co.'s Chick Feed.	12.	3.
The H-O Company, Buffalo, N. Y..	The H-O Co.'s De-Fi Feed.	8.30	3.
The H-O Company, Buffalo, N. Y..	The H-O Co.'s Force Screenings.	11.	3.
The H-O Company, Buffalo, N. Y..	The H-O Co.'s Jim Dandy Feed.....	7.50	2.75
The H-O Company, Buffalo, N. Y..	The H-O Co.'s New England Stock Feed.....	9.	4.
Hodgman Milling Co., Painted Post, N. Y.....	Corn & Oats Chop Feed...	9.69	3.88
Hoffman & Co., Syracuse, N. Y.....	Brewers' Dry Grains.....	23.	5.10
Stephen Hollands & Sons, Hornell, N. Y.....	No. 2 Feed.....	12.60	3.92
The Hottel Co., Milwaukee, Wis..	Bourbon Grains.....	31.	7.50
The Hottel Co., Milwaukee, Wis..	Holstein.....	27.	6.
Howard & Childs Co., New York, N. Y.....	Dried Brewers' Grains	24.	6.
J. C. Hubinger Bros. Co., Keokuk, Iowa.....	K. K. K. Corn Germ Meal.	20.50	7.
J. C. Hubinger Bros. Co., Keokuk, Iowa.....	K. K. K. Gluten Feed.....	23.	2.
Humphreys, Godwin & Co., Memphis, Tenn.....	Dixie Brand Cotton Seed Meal.....	41.	7.
The Hunter Bros. Milling Co., St. Louis, Mo.....	Dairy Feed.....	15.	3.
The Hunter Bros. Milling Co., St. Louis, Mo.....	Old Process Linseed Oil Meal.....	34.	6.50
The Hunter Bros. Milling Co., St. Louis, Mo.....	Prime Cotton Seed Meal...	41.	7.50
The Hunter Bros. Milling Co., St. Louis, Mo.....	Pure Hominy Feed.....	8.50	7.
The Huron Milling Co., Harbor Beach, Mich.....	Jenks Gluten Feed.....	25.	2.50
Husted Milling Co., Buffalo, N. Y..	Corn Bran.....	8.	4.
Husted Milling Co., Buffalo, N. Y..	Eclipse Feed.....	9.	4.
Husted Milling Co., Buffalo, N. Y..	Hominy Feed.....	9.	5.
Husted Milling Co., Buffalo, N. Y..	Husted Dairy Feed.....	18.	3.
Husted Milling Co., Buffalo, N. Y..	Husted Germaline.....	9.	3.
Husted Milling Co., Buffalo, N. Y..	Husted Horse Feed.....	12.	4.
Husted Milling Co., Buffalo, N. Y..	Husted Laying Mash.....	15.	3.

Name and address of manufacturer or jobber.	Brand or trade name.	GUARANTEED ANALYSIS.	
		Crude protein.	Crude fat.
		<i>Per ct.</i>	<i>Per ct.</i>
Husted Milling Co., Buffalo, N. Y.	Husted Molasses Feed.....	18.	4.
Husted Milling Co., Buffalo, N. Y.	Husted Poultry Feed.....	12.	4.
Husted Milling Co., Buffalo, N. Y.	Husted Stock Feed.....	8.	4.
Husted Milling Co., Buffalo, N. Y.	Husted 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.
Husted Milling Co., Buffalo, N. Y.	Regal Chop.....	7.	3.
Hydraulic Milling Co., Buffalo, N.Y.	Hydraulic Milling Co.'s Standard Chop Feed....	6.44	2.53
The Illinois Seed Co., Chicago, Ill.	Monitor Brand Chick Feed.	10.50	3.
The Illinois Seed Co., Chicago, Ill.	Phoenix Brand Poultry Feed.....	10.50	3.
The Imperial Grain & Milling Co., Toledo, Ohio.....	Corn, Oats & Barley Chop.	8.90	3.70
Indiana Milling Co., Terre Haute, Ind.....	Flo-Midds Mixed Feed....	11.	2.50
Indiana Milling Co., Terre Haute, Ind.....	Jersey Mixed Feed.....	10.	2.50
Indiana Milling Co., Terre Haute, Ind.....	Sterling Mixed Feed.....	11.50	3.
International Sugar Feed Co., Minneapolis, Minn.....	Sugared Feed for Cows....	16.50	3.50
International Sugar Feed Co., Minneapolis, Minn.....	Sugared Feed for Horses..	12.50	3.50
Johnson & Lyon, Oswego, N. Y....	Malt Sprouts.....	26.25	.70
John Kam Malting Co., Buffalo, N. Y.....	Malt Sprouts.....	25.	1.50
Kelloggs & Miller, Amsterdam, N. Y.	Pure (Old Process) Oil Meal	33.	5.
Kornfalfa Feed Milling Co., Kansas City, Mo.....	Kornfalfa Feed.....	12.	4.
Chas. A. Krause Milling Co., Mil- waukee, Wis.....	Badger Dairy Feed.....	16.50	3.50
Chas. A. Krause Milling Co., Mil- waukee, Wis.....	Badger Stock Feed.....	10.	4.
Kreiner & Lehr, Buffalo, N. Y.....	Malt Sprouts.....	24.62	1.56
The Larrowe Milling Co., Detroit, Mich.....	Dried Beet Pulp.....	8.	.50
Lawrence & Hamilton Feed Co., Ltd., New Orleans, La.....	Stafolife.....	11.	6.
Lembeck & Betz, Eagle Brewing Co., Watkins, N. Y.....	Malt Sprouts.....	27.60	3.
Charles R. Lull & Co., Milwaukee, Wis.....	Ground Flax Flakes.....	15.	12.
The Mann Bros. Co., Buffalo, N. Y.	Pure Old Process Oil Meal.	34.	6.
Matthews & Harrison, Kingston, N. Y.....	Arcade Mixed Feed.....	10.42	5.86
Matthews & Harrison, Kingston, N. Y.....	Ulster Chop Feed.....	7.	3.50

Name and address of manufacturer or jobber.	Brand or trade name.	GUARANTEED ANALYSIS.	
		Crude protein.	Crude fat.
		Per ct.	Per ct.
Geo. E. McCoy, Peekskill, N. Y. . . .	Bone & Meat Meal for Poultry.	31.	5.
C. H. McLaughlin, Buffalo, N. Y. . .	Malt Sprouts.	27.76	2.08
The Meader-Atlas Co., New York, N. Y.	Atlas Horse Feed.	10.	2.
Merchants Distilling Co., Terre Haute, Ind.	Merchants High Grade Dairy Feed.	31.	12.
Metzger Seed & Oil Co., Toledo, O.	Old Process Oil Meal.	30.	5.
Geo. J. Meyer Malting Co., Buffalo, N. Y.	Malt Sprouts.	20.82	1.15
Midland Linseed Co., Minneapolis, Minn.	Old Process Ground Linseed Cake.	32.	6.
Milwaukee Grains & Feed Co., Milwaukee, Wis.	Crown Brewers' Dried Grains.	27.	6.
Milwaukee Grains & Feed Co., Milwaukee, Wis.	XXX Dairy Feed.	15.	2.50
Miner-Hillard Milling Co., Wilkes-Barre, Pa.	Choice Steam Cooked Hominy Feed.	10.	7.50
Model Milling Co., Buffalo, N. Y. . .	Model Beef Scrap.	65.	10.
Model Milling Co., Buffalo, N. Y. . .	Model Egg Mash.	20.	4.50
Model Milling Co., Buffalo, N. Y. . .	Model Growing Chick Food.	11.	3.30
Model Milling Co., Buffalo, N. Y. . .	Model Nursery Chick Food.	10.50	2.75
Model Milling Co., Buffalo, N. Y. . .	Model Scratching Food.	12.	2.50
Henry C. Moffat, Buffalo, N. Y. . . .	Malt Sprouts.	26.	1.90
Neidlinger & Co., Oswego, N. Y. . . .	Malt Sprouts.	26.25	.70
Newburg Rendering Co., Newburg, N. Y.	Animal Meal for Poultry.	35.	12.
New Occidental Milling Co., Minneapolis, Minn.	Aloras.	16.	5.
North West Mills Co., Winona, Minn.	Sugarota.	18.	4.50
A. Nowak & Son, Buffalo, N. Y. . . .	Model Chop Feed.	7.	3.
A. Nowak & Son, Buffalo, N. Y. . . .	Model Gluten Feed.	23.	2.
F. C. Ogden, Utica, N. Y.	Ogden's Special Horse Feed.	11.	4.
Ogdensburg Roller Mills, Ogdensburg, N. Y.	Oswegatchie Corn & Oat Chop Feed.	8.	4.
Ogdensburg Roller Mills, Ogdensburg, N. Y.	St. Lawrence Dairy Feed.	10.	4.
Olean Mills, Geo. Oliver, Prop., Olean, N. Y.	Chop Feed.	7.	2.
Oneonta Milling Co., Oneonta, N. Y. .	Arrow Feed.	9.	3.75
Oneonta Milling Co., Oneonta, N. Y. .	Chick Food.	10.75	3.50

Name and address of manufacturer or jobber.	Brand or trade name.	GUARANTEED ANALYSIS.	
		Crude protein.	Crude fat.
		<i>Per ct.</i>	<i>Per ct.</i>
Oneonta Milling Co., Oneonta, N. Y.	Provender.....	8.75	3.50
Oneonta Milling Co., Oneonta, N. Y.	Scratch Food.....	10.50	3.
Oneonta Milling Co., Oneonta, N. Y.	Susquehanna Stock Feed..	8.38	3.85
John Orr & Co., Mountainville, N. Y.	Feed.....	6.	2.
William Orr & Sons, Orr's Mills, N. Y.	Orr's Mixed Feed.....	7.50	2.
J. D. Page & Co., Syracuse, N. Y.	Pure Empire State Dairy Feed.....	28.	9.
The Page Seed Co., Greene, N. Y.	Page's Little Chick Food..	10.	3.
The Patent Cereals Co., Geneva, N. Y.	Hominy Feed.....	10.	7.
The Penn Starch Co., Lititz, Pa.	Penn Brand Gluten Feed..	23.60	5.90
The Francis Perot's Sons Malting Co., Philadelphia, Pa.	Malt Sprouts.....	25.	1.10
M. C. Peters Mill Co., Omaha, Neb.	Peters' Alfalfa-fat Sugar Meal	11.	1.50
M. C. Peters Mill Co., Omaha, Neb.	Peters' Arab Horse Feed...	10.	3.
M. C. Peters Mill Co., Omaha, Neb.	Peters' June Pasture Dairy Meal.....	12.	1.
M. C. Peters Mill Co., Omaha, Neb.	Peters' Lucern (Alfalfa Meal).....	12.	.50
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.	Hoosier Gluten Feed.....	14.	2.
Piel Bros. Starch Co., Indianapolis, Ind.	P. Bro. Gluten Feed.....	22.50	2.
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.	Corn Feed Meal.....	8.50	3.
The Quaker Oats Co., Chicago, Ill.	C. O. & B. Feed.....	10.	4.
The Quaker Oats Co., Chicago, Ill.	Schumacher Calf Meal....	19.	8.
The Quaker Oats Co., Chicago, Ill.	Schumacher Little Chick Feed.....	10.50	3.50
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.	Schumacher Special Horse Feed.....	9.25	3.50
The Quaker Oats Co., Chicago, Ill.	Quaker Little Chick Feed .	10.50	3.50
The Quaker Oats Co., Chicago, Ill.	Quaker Scratching Grains.	10.50	3.
The Quaker Oats Co., Chicago, Ill.	Victor Feed.....	7.50	3.
Ralston Purina Co., St. Louis, Mo.	Purina Feed.....	12.50	4.
Ralston Purina Co., St. Louis, Mo.	Purina Mill Feed Chick Size	11.	3.60
Ralston Purina Co., St. Louis, Mo.	Purina Mill Feed Mash....	17.	2.5
Ralston Purina Co., St. Louis, Mo.	Purina Mill Feed Scratch Size.....	11.	3.60
M. G. Rankin & Co., Milwaukee, Wis.	Malt Sprouts.....	23.	1.50

Name and address of manufacturer or jobber.	Brand or trade name.	GUARANTEED ANALYSIS.	
		Crude protein.	Crude fat.
		<i>Per ct.</i>	<i>Per ct.</i>
M. G. Rankin & Co., Milwaukee, Wis.....	Dried Brewers' Grains.....	23.	6.
W. S. Rhoads & Co., Chicago, Ill. . .	Honeysuckle Calf Meal. . . .	24.80	6.50
DeWitt Romaine, Jersey City, N. J.	Boiled Beef & Bone.....	45.	15.
Rosekrans-Snyder Co., Philadelphia, Pa.....	Pilsner Brewers' Dried Grains.....	26.	6.
J. Rosenthal, Dumont, N. J.	Ground Beef Scraps.....	55.	22.
Ryan Bros., Jamesville, N. Y.	Barley Feed.....	12.	3.50
Schaefer & Sons Malting Co., Buffalo, N. Y.	Malt Sprouts.....	26.75	2.35
Jos. Schlitz Brewing Co., Milwaukee, Wis.....	Schlitz Purity Dried Grains	29.	6.50
The Sherwin-Williams Co., Cleveland, Ohio.....	Linseed Meal... ..	33.	6.
M. L. Shoemaker & Co., Philadelphia, Pa.	Ground Beef Scraps.....	55.	19.
Simpson, Hendee & Co., New York, N. Y.	Brighton Stock Feed.....	8.	4.
Allen V. Smith, Marcellus Falls, N. Y.	Barley Feed.....	13.	3.
The Southern Cotton Oil Co., Charlotte, N. C.	Boveta Feed.....	17.	3.
The Southern Cotton Oil Co., Charlotte, N. C.	Piedmont Feed.....	10.	1.50
Southern Fibre Co., Portsmouth, Va.	Prime Cottonseed Feed. . .	10.	1.80
Spratt's Patent (America) Ltd., Newark, N. J.	Chick Meal No. 5.....	20.	3.
Spratt's Patent (America) Ltd., Newark, N. J.	Spratt's Patent Meat.....	43.	11.
H. M. Stanton, Schenectady, N. Y. .	Ground Beef Scraps.....	40.	15.
Stein & Wittlin, Buffalo, N. Y.	S. W. Mixed Feed.....	8.	2.
David Stott, Detroit, Mich.	Winner Chop Feed.....	8.	4.
Stump & Walter Co., New York, N. Y.	Quality Kind Beef Scraps.	50.	10.
The Sugarine Co., Chicago, Ill.	Sugarine Dairy Feed.....	16.50	3.50
The Sugarine Co., Chicago, Ill.	Sugarine Horse Feed.....	10.	3.
Suffern Hunt & Co., Decatur, Ill. . .	Hominy Feed.....	9.30	7.10
Swift & Co., Chicago, Ill.	Swift's Beef Scraps.....	55.	8.
Swift's Lowell Fertilizer Co., Boston, Mass.	Swift's Lowell Beef Scraps.	40.	10.
Swift's Lowell Fertilizer Co., Boston, Mass.	Swift's Lowell Bone & Meat Meal.....	35.	8.
Swift's Lowell Fertilizer Co., Boston, Mass.	Swift's Lowell Cracked Bone.....	20.	5.

Name and address of manufacturer or jobber.	Brand or trade name.	GUARANTEED ANALYSIS.	
		Crude protein.	Crude fat.
		<i>Per ct.</i>	<i>Per ct.</i>
Swift's Lowell Fertilizer Co., Boston, Mass.....	Swift's Lowell Edible Bone Meal.....	20.	5.
Geo. A. Taylor & Co., Ogdensburg, N. Y.....	Stock Feed.....	8.	4.
William Taylor, Lyons, N. Y.....	Malt Sprouts.....	25.	2.
Tennessee Fibre Co., Memphis, Tenn.....	Creamo Brand.....	22.	5.
Thompson & Mould, Goshen, N. Y.....	Matchless Fancy Corn Bran	10.70	7.80
Thompson & Mould, Goshen, N. Y.....	Special Hominy Meal.....	10.	7.
Thompson & Mould, Goshen, N. Y.....	Special Malt Sprouts.....	24.	1.
Tioga Mill & Elevator Co., Waverly, N. Y.....	Derby Stock Feed.....	10.50	7.
Tioga, Mill & Elevator Co. Waverly, N. Y.....	Economy Feed.....	10.	5.
The Toledo Elevator Co., Toledo, Ohio.....	Star Cotton Feed.....	10.	6.50
The Toledo Elevator Co., Toledo, Ohio.....	Star Feed.....	7.	5.50
The Toledo Elevator Co., Toledo, Ohio.....	Victoria Feed.....	5.50	4.
The Toledo Grain & Milling Co., Toledo, Ohio.....	C. O. & B. Chop.....	9.056	4.33
The Toledo Grain & Milling Co., Toledo, Ohio.....	Feed Meal.....	7.50	3.50
The Toledo Grain & Milling Co., Toledo, Ohio.....	M. B. Chop Feed.....	7.306	3.875
The Toledo Grain & Milling Co., Toledo, Ohio.....	No. 1 Yellow Chop.....	8.575	3.716
Union Starch & Refining Co., Edinburg, Ind.....	Union Gluten Feed.....	24.	3.
U. S. Frumentum Co., Detroit, Mich.....	Frumentum Hominy Feed.....	10.50	8.30
U. S. Sugar Feed Co., Milwaukee, Wis.....	U. S. Sugar Feed.....	16.	3.
Van Buren & Conklin, Hobart, N.Y.....	Horse Feed No. 2.....	11.	5.
Victor Mills, Springville, N. Y.....	Corn, Oats & Barley.....	7.	4.
W. A. Waite & Son, Adams, N. Y.....	Malt Sprouts.....	23.	1.
C. W. Wagar & Co., Philadelphia, Pa.....	Gluten Feed.....	22.	3.
C. W. Wagar & Co., Philadelphia, Pa.....	Maizeline Feed.....	7.	4.
L. R. Wallace, Middletown, N. Y.....	Mapes Balanced Ration.....	12.	4.
A. Waller & Co., Henderson, Ky....	Blue Grass Mixed Feed....	9.	2.
A. Waller & Co., Henderson, Ky....	Oneida Mixed Feed.....	10.	2.50
The Otto Weiss Alfalfa Stock Food Co., Wichita, Kan.....	Otto Weiss Alfalfa Stock Food.....	12	3.50

Name and address of manufacturer or jobber.	Brand or trade name.	GUARANTEED ANALYSIS.	
		Crude protein.	Crude fat.
		<i>Per ct.</i>	<i>Per ct.</i>
The Otto Weiss Alfalfa Stock Food Co., Wichita, Kan.....	The Otto Weiss Alfalfa Oats Food.....	12.	3.50
J. Lindsay Wells Co., Memphis, Tenn.....	Cotton Seed Meal Sunny South Brand.....	25.	5.
J. Lindsay Wells Co., Memphis, Tenn.....	Star Brand Choice Finely Ground Cotton Seed Meal.....	41.	9.
Western Grain Products Co., Hammond, Ind.....	Hammond Dairy Feed....	17.	3.
W. J. Wheelock, Greigsville, N. Y..	Banner Dairy Feed.....	22.	4.
The C. Zwickel Malting Co., Buffalo, N. Y.....	Malt Sprouts.....	25.	2.

ANALYSES OF SAMPLES OF FEEDING STUFFS.

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>
2518	COTTON SEED MEALS: American Brokerage Co., Memphis, Tenn. Eagle Brand Choice Finely Ground Cotton Seed Meal	Hornell	G* F*	41. 38.81	9. 7.33	
2596	American Brokerage Co., Memphis, Tenn. Eagle Brand Choice Finely Ground Cotton Seed Meal	Oswego	G F	41. 39.56	9. 7.83	
2320	American Cotton Oil Co., Greenville, Miss. Choice Cottonseed Meal	Hobart	G F	41. 36.38	9. 7.82	
2634	W. P. Battle & Co., Memphis, Tenn. Battle Brand Choice Cotton Seed Meal	Port Jervis	G F	41. 39.69	8. 10.07	
2398	H. E. Bridges & Co., Memphis, Tenn. Cotton Seed Meal	Canastota	G F	41. 43.05	9. 9.72	
2403	F. W. Brode & Co., Memphis, Tenn. Owl Brand Pure Cotton Seed Meal	Skaneateles	G F	41. 40.13	7. 8.54	
2572	F. W. Brode & Co., Memphis, Tenn. Owl Brand Pure Cotton Seed Meal	Buffalo	G F	41. 41.25	7. 9.39	
2489	F. W. Brode & Co., Memphis, Tenn. Owl Brand Pure Cotton Seed Meal	Plattsburg	G F	41. 39.94	7. 10.34	
2394	Chapin & Co., St. Louis, Mo. Green Diamond Brand Choice Cotton Seed Meal.	Lowville	G F	41. 40.37	9. 8.03	

* 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>
2468	COTTON SEED MEALS: Humphreys-Godwin & Co., Memphis, Tenn. Dixie Brand Cotton Seed Meal	Elmira	G* F*	41. 41.50	8. 11.20	
2660	Humphreys-Godwin & Co., Memphis, Tenn. Dixie Brand Cotton Seed Meal	Maywood	G F	41. 39.63	7. 9.40	
2492	Hunter Bros. Milling Co., St. Louis, Mo. Prime Cotton Seed Meal	Glens Falls	G F	41. 41.50	9. 9.08	
2407	J. Lindsay Wells Co., Memphis, Tenn. Star Brand Cotton Seed Meal Choice Finely Ground	Syracuse	G F	41. 47.50	9. 10.63	
2329	J. Lindsay Wells Co., Memphis, Tenn. Star Brand Choice Finely Ground Cotton Seed Meal	Johnson	G F	41. 39.81	9. 8.41	
2473	J. Lindsay Wells Co., Memphis, Tenn. Sun Brand Cotton Seed Meal Choice Finely Ground	Freeville	G F	41. 35.43	9. 8.25	
2327	LINSEED MEALS: American Linseed Co., New York, N. Y. Old Process Oil Meal	Walton	G F	32.36 33.50	5.70 5.62	
2370	American Linseed Co., Chicago, Ill. Cleveland Flax Meal	Norwich	G ^d F	36.0 34.75	1. 3.66	7.83
2482	Archer Daniels Linseed Co., Minneapolis, Minn. Old Process Ground Linseed Cake	Norwood	G F	32. 34.50	6. 6.11	
2644	A. L. Clements & Co., New York, N. Y. Old Process Oil Meal	New York	G F	28. 28.81	5. 9.10	

* 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>
LINSEED MEALS:						
2416	Globe Elevator Co., Buffalo, N. Y. International Oil Meal	Auburn	G* F*	29. 29.31	4. 7.50	
2803	Globe Elevator Co., Buffalo, N. Y. International Oil Meal	Lawyersville	G F	30. 31.81	6.0 8.03	
2430	Hauenstein & Co., Buffalo, N. Y. Old Process Linseed Meal	Geneva	G F	33.50 34.69	6.99 5.60	
2466	The Hunter Bros. Milling Co., St. Louis, Mo. Old Process Linseed Oil Meal	Waverly	G F	34. 34.13	6.50 7.95	
2613	The Hunter Bros. Milling Co., St. Louis, Mo. Old Process Linseed Oil Meal	Wallkill	G F	34. 31.37	6.50 8.17	
2375	Kelloggs & Miller, Amsterdam, N. Y. Pure (Old Process) Oil Meal	Utica	G F	36.70 33.94	7.83 6.20	
2419	The Mann Bros. Co., Buffalo, N. Y. Oil Meal (Linseed)	Lyons	G F	34. 33.81	6. 7.24	
2527	The Metzger Seed & Oil Co., Toledo, Ohio Old Process Oil Meal	Randolph	G F	30. 33.94	5. 6.85	
2490	Midland Linseed Co., Chicago, Ill. Old Process Ground Linseed Cake..	Ticonderoga	G F	32. 33.37	5.50 7.87	
2693	New Jersey Oil & Meal Co., New York, N. Y. Old Process Seed Oil Meal	Eastport	G F	30. 25.81	5. 10.15	
2618	Red Wing Linseed Co., Red Wing, Minn. Old Process Ground Oil Cake.	Middletown	G F	30. 36.13	6. 5.39	

* 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>
2683	DRIED DISTILLERS' GRAINS: Ajax Milling & Feed Co., New York, N. Y. Ajax Flakes	St. Johnsville	G* F*	31. 31.43	12. 13.94	
2392	Ajax Milling & Feed Co., New York, N. Y. Ajax Flakes	Boonville	G F	31. 31.37	12. 12.	
2402	Barber Consolidated Feed Co., Buffalo, N. Y. Trojan High Grade Distillers' Grains	Skaneateles	G F	33. 31.88	12. 9.77	7.68
2472	Barber Consolidated Feed Co., Buffalo, N. Y. Trojan High Grade Distillers' Grains	Peruville	G F	33. 29.69	12. 10.	
2467	The J. W. Biles Co., Cincinnati, Ohio Biles Fourx (XXXX) Grains	Waverly	G F	31. 29.81	12. 14.21	
2506	The J. W. Biles Co., Cincinnati, Ohio Twoex (XX) Grains	Oneonta	G F	30. 31.43	8. 11.92	
2684	The J. W. Biles Co., Cincinnati, Ohio Onex (X) Distillers' Dried Grains	Ft. Plain	G F	22. 22.88	8. 9.21	
2367	The Dewey Bros. Co., Blanchester, Ohio Dewey's Distiller's Dried Grains	Norwich	G F	30. 22.81	15. 9.88	
2406	Merchants Distilling Co., Terre Haute, Ind. Merchants' High Grade Dairy Feed	Syracuse	G F	34. 30.81	12. 13.36	
2439	J. D. Page & Co., Syracuse, N. Y. Pure Empire State Dairy Feed	Phoenix	G F	32.50 30.56	11.50 11.08	

* 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>
2483	DRIED DISTILLERS' GRAINS: J. D. Page & Co., Syracuse, N. Y. Clark Bros. & Co. Pure Em- pire State Feed	Malone	G* F*	32. 31.75	11.33 13.06	
2428	MALT SPROUTS: W. & J. Agate, Pittsford, N. Y. Malt Sprouts	Pittsford	G F	24. 26.88	2. 1.97	
2335	American Malting Co., Buffalo, N. Y. Malt Sprouts	Bainbridge	G F	25. 26.56	2. 1.63	
2436	American Malting Co., Buffalo, N. Y. Malt Sprouts	Fulton	G F	25. 25.81	2. 2.26	
2465	American Malting Co., New York, N. Y. Malt Sprouts	Greene	G F	25. 26.63	2. 1.79	
2627	Anheuser-Busch Brewing Association, St. Louis, Mo. Malt Sprouts	Newburg	G F	22. 27.81	2. 1.66	
2450	Atlantic Export Co., Milwaukee, Wis. Malt Sprouts	Oxford	G F	25. 27.25	1.50 1.72	
2621	P. Ballantine & Sons, Newark, N. J. Malt Sprouts	Monroe	G F	25.02 25.25	1.69 1.59	
2424	Bartholomay Brewery Co., Rochester, N. Y. Malt Sprouts	Rochester	G F	26.60 25.50	1.06 2.27	
2536	Henry V. Burns, Buffalo, N. Y. Malt Sprouts	Buffalo	G F	25.63 26.56	2.33 2.82	
2431	Francis Duhne, Jr., Milwaukee, Wis. Malt Sprouts	Geneva	G F	25. 27.43	2. 2.41	

* 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 prote.n.	Crude fat.	Fiber.
				<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
	MALT SPROUTS:					
2640	Farmers Feed Co., New York, N. Y. Malt Sprouts	New York	G* F*	29.90 28.31	2.20 1.83	
2477	Flint Mill Co., Milwaukee, Wis. Marvel Malt Sprouts	Mexico	G F	22. 26.75	2. 1.61	
2695	India Wharf Brewing Co., Brooklyn, N. Y. Malt Sprouts	New York	G F	— 18.	— 2.29	10.82
2594	Johnson & Lyon, Oswego, N. Y. Malt Sprouts	Oswego	G F	26.25 29.63	.70 2.70	
2385	John Kam Malting Co., Buffalo, N. Y. Malt Sprouts	Utica	G F	24.80 24.43	.51 1.55	
2537	Kreiner & Lehr, Buffalo, N. Y. Malt Sprouts	Buffalo	G F	26.12 26.94	1.56 2.05	
2680	Lembeck & Betz, Eagle Brew- ing Co., Watkins, N. Y. Malt Sprouts	Watkins	G F	27.60 28.88	3. 1.61	
2542	C. H. McLaughlin, Niagara Falls, N. Y. Malt Sprouts	Niagara Falls	G F	26.76 28.19	2.08 2.32	
2445	Geo. J. Meyer Malting Co., Buffalo, N. Y. Malt Sprouts	Waterville.	G F	20.82 23.62	1.15 1.90	
2534	Henry C. Moffat, Buffalo, N. Y. Malt Sprouts	Buffalo	G F	24.50 26.43	.86 1.75	
2595	Neidlinger & Co., Oswego, N. Y. Malt Sprouts	Oswego	G F	26.25 30.37	.70 2.10	
2495	Oneonta Milling Co., Buffalo, N. Y. Malt Sprouts	Altamont	G F	24. 25.	1. 1.37	

* 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>
2451	MALT SPROUTS: Perot Malting Co., Buffalo, N. Y. Malt Sprouts	Sherburne	G* F*	27.25 28.25	1.67 1.72	
2677	Perot Malting Co., Buffalo, N. Y. Malt Sprouts	Buffalo	G F	32.28 26.69	1.39 1.50	
2376	M. G. Rankin & Co., Milwaukee, Wis. Jersey Malt Sprouts	Utica	G F	25. 25.63	2. 1.81	
2535	Schaefer & Sons Malting Co., Buffalo, N. Y. Malt Sprouts	Buffalo	G F	26.75 27.94	2.35 2.74	
2637	Wm. Taylor Lyons, N. Y. Malt Sprouts	Clyde	G F	24. 28.94	1. 1.68	
2612	Thompson & Mould, Goshen, N. Y. Special Malt Sprouts	Wallkill	G F	24. 26.50	1. 1.56	
2564	Joel Wheeler & Co., Buffalo, N. Y. Malt Sprouts	Buffalo	G F	26.37 26.31	1.69 1.78	
2543	The C. Zwickel Malting Co., Buffalo, N. Y. Malt Sprouts	Buffalo	G F	25. 27.94	2. 1.78	
2384	DRIED BREWERS' GRAINS: Anheuser-Busch Brewing As- sociation, St. Louis, Mo. Dried Brewers' Grains	Utica	G F	25. 25.31	6. 7.47	
2517	Atlantic Export Co., Milwaukee, Wis. Dried Brewers' Grains	Hornell	G F	27. 30.38	7. 7.05	
2425	Bartholomay Brewery Co., Rochester, N. Y. Dried Brewers' Grains	Rochester	G F	26.20 19.50	5.75 4.75	

* 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>
2421	DRIED BREWERS' GRAINS: The J. W. Biles Co., Cincinnati, O. Midland Brewers' Dried Grains	Newark	G* F*	23. 25.63	7.50 6.77	
2590	Columbia Distilling Co., Waterloo, N. Y. Distillers' Dried Malt Grains	Waterloo	G F	25. 27.06	8. 10.96	
2533	Francis Duhne, Jr., Milwaukee, Wis. Pure Dried Brewers' Grains	Buffalo	G F	25. 27.31	7. 6.81	
2639	Farmers Feed Co., New York, N. Y. Dried Brewers' Grains	New York	G F	26.30 26.94	7.60 6.85	
2371	Hoffman & Co., Syracuse, N. Y. Brewers' Dry Grains	Norwich	G F	23.34 26.19	6.43 7.05	
2420	The Hottelet Co., Milwaukee, Wis. Holstein	Newark	G F	27. 25.43	6. 5.95	
2665	Howard & Childs Co., New York, N. Y. Dried Brewers' Grain	Towners	G F	24. 25.06	6. 6.91	
2632	Johnstown Dry Grains Co., Johnstown, Pa. Dried Brewers' Grains	Port Jervis	G F	24. 26.19	6.71 6.98	
2622	Wm. J. Lemp Brewing Co., St. Louis, Mo. Brewers' Dried Grains	Monroe	G F	24. 34.81	7. 6.75	
2666	Milwaukee Grains & Feed Co., Milwaukee, Wis. Crown Brewers' Dried Grains	Brewster	G F	27. 27.69	6. 7.67	
2374	The Pennsylvania Central Brewing Co., Scranton, Pa. Dried Brewers' Grains	Utica	G F	23.71 24.50	7.14 5.85	

* 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>
2610	DRIED BREWERS' GRAINS: The Pennsylvania Central Brewing Co., Scranton, Pa. Dried Brewers' Grains	Poughkeepsie	G* F*	23.71 26.	7.14 6.73	
2446	M. G. Rankin & Co., Milwaukee, Wis. Durham Dried Grains	Waterville	G F	25. 26.	7. 6.21	
2437	Rosekrans-Snyder Co., Philadelphia, Pa. Pilsner's Brewers' Dried Grains	Fulton	G F	26. 26.06	6. 6.97	
2334	Joseph Schlitz Brewing Co., Milwaukee, Wis. Purity Dried Grains	Bainbridge	G F	24.50 26.63	6.50 6.56	
2395	GLUTEN FEEDS: Ajax Milling & Feed Co., Buffalo, N. Y. Unicorn Dairy Ration	Lowville	G F	26. 27.38	6. 6.01	7.71
2326	American Maize Products Co., New York, N. Y. Cream of Corn Gluten Feed	Walton	G F	23. 22.63	2.50 3.37	
2340	Clinton Sugar Refining Co., Clinton, Iowa. Clinton Gluten Feed	Harpursville	G F	24. 24.81	2.50 4.08	
2331	Continental Cereal Co., Peoria, Ill. Continental Gluten Feed	Sidney	G F	33. 29.88	14. 12.21	
2304	Corn Products Manufacturing Co., Chicago, Ill. Buffalo Gluten Feed	Kingston	G F	23. 26.88	2.50 3.28	
2561	Corn Products Manufacturing Co., Chicago, Ill. Buffalo Gluten Feed	Avon	G F	23. 25.56	2.50 2.43	
2460	Corn Products Manufacturing Co., Chicago, Ill. Pekin Crescent Gluten Feed	Binghamton	G F	23. 26.56	2.50 2.92	

* 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>
2662	GLUTEN FEEDS: Corn Products Refining Co., Chicago, Ill. Buffalo Gluten Feed	Maywood	G* F*	23. 25.19	2.50 4.26	
2301	Corn Products Refining Co., New York, N. Y. Crescent Gluten	Catskill	G F	20. 23.	2. 3.36	
2659	Corn Products Refining Co., New York, N. Y. Crescent Gluten	Tarrytown	G F	23. 23.	2.50 2.88	
2389	Corn Products Refining Co., New York, N. Y. Diamond Gluten	Boonville	G F	23. 26.31	2.50 3.68	
2324	Corn Products Refining Co., New York, N. Y. Globe Gluten Feed	East Meredith	G F	26. 26.37	2.50 3.59	
2607	Corn Products Refining Co., New York, N. Y. Globe Gluten Feed	Troy	G F	26. 27.69	2.50 2.26	
2302	Corn Products Refining Co., New York, N. Y. Queen Gluten	Catskill	G F	20. 24.25	2. 3.33	
2476	Corn Products Refining Co., New York, N. Y. Queen Gluten	Oswego	G F	20. 23.06	2. 3.66	
2329	Corn Products Refining Co., New York, N. Y. Tiger Gluten Feed	Walton	G F	23. 26.44	2.50 3.38	
2655	Corn Products Refining Co., New York, N. Y. Warner's Gluten Feed	Port Chester	G F	24. 24.06	2.50 3.71	
2457	Douglas & Co., Cedar Rapids, Iowa Cedar Rapids Gluten Feed	Cortland	G F	24. 22.81	4. 4.13	
2549	Globe Elevator Co., Buffalo, N. Y. International Gluten	Buffalo	G F	20. 26.69	4. 2.35	

* 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>
GLUTEN FEEDS:						
2802	Globe Elevator Co., Buffalo, N. Y. International Gluten Feed	Lawyersville	G* F*	23. 21.81	2. 7.76	
2701	Globe Elevator Co., Buffalo, N. Y. Royal Gluten Feed	Port Jervis	G F	20. 19.69	2. 2.53	
2337	J. C. Hubinger Bros. Co., Keokuk, Iowa K K & Gluten Feed	Windsor	G F	23.50 24.13	2.60 3.12	
2314	J. C. Hubinger Bros. Co., Keokuk, Iowa Gluten Feed	Stamford	G F	23.50 21.43	2.60 3.03	
2352	Huron Milling Co., Harbor Beach, Mich. Jenk's Gluten Feed	Edmeston	G F	27. 26.88	7.50 10.54	
2616	Piel Bros. Starch Co., Indianapolis, Ind. P. Bro. Gluten Feed	Middletown	G F	22.50 21.69	3.50 2.24	
2670	C. W. Wagar & Co., Philadelphia, Pa. Gluten Feed	Johnsons	G F	22. 22.19	3. 2.35	
2508	The Western Glucose Co., Chicago, Ill. Western Gluten Feed	Oneonta	G F	23. 22.75	2.50 3.39	
CORN BRANS:						
2672	M. F. Baringer, Philadelphia, Pa. Pure Corn Bran	Chester	G F	7. 10.19	5. 7.93	7.25
2573	Husted Milling Co., Buffalo, N. Y. Corn Bran	Buffalo	G F	8. 10.31	4. 8.81	7.61
2671	Thompson & Mould, Goshen, N. Y. Matchless Fancy Corn Bran	Johnsons	G F	10.70 10.50	7.80 10.22	3.56

* 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>
2669	CORN BRAN: C. W. Wagar & Co., Philadelphia, Pa. Maizeline Feed	Johnsons	G* F*	7. 9.56	4. 6.86	6.33
2341	HOMINY FEEDS: Allen Baker Commission Co., St. Louis, Mo. Crown Hominy Feed Kiln Dried	Center Village	G F	11.02 10.69	7.70 7.88	3.12
2401	American Hominy Co., Indianapolis, Ind. Hominy Feed	Canastota	G F	10.24 9.69	7.72 6.60	3.39
2349	American Hominy Co., Indianapolis, Ind. Homco Feed	Afton	G F	8.50 10.38	7.70 7.58	3.81
2459	American Hominy Co., Indianapolis, Ind. Homco Feed	Cortland	G F	8.50 10.25	7.70 7.43	3.57
2388	Ames-Burns Co., Jamestown, N. Y. A. B. C. White Hominy	Utica	C F	11. 10.63	8. 8.94	3.89
2351	M. F. Baringer, Philadelphia, Pa. Hominy Feed	Unadilla	G F	9. 10.56	6. 7.49	1.21
2321	Buffalo Cereal Co., Buffalo, N. Y. Hominy Feed	Hobart	G F	10.25 9.18	8. 5.54	2.55
2635	Chas. M. Cox Co., Boston, Mass. Wirthmore Hominy Meal	Hancock	G F	9.50 10.13	7.50 7.79	3.33
2396	Decatur Cereal Co., Decatur, Ill. Hominy Feed	Canastota	G F	11.02 9.69	7.70 7.84	2.71
2452	Elevator Milling Co., Springfield, Ill. Hominy	Eaton	G F	— 9.75	— 7.78	5.98

*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>
2336	HOMINY FEEDS: Empire Grain & Elevator Co., Binghamton, N. Y. Pearl Hominy	Bainbridge	G* F*	10.12 9.56	7.52 6.77	3.38
2328	Evans Milling Co., Indianapolis, Ind. Hominy Feed	Walton	G F	10. 10.50	7.50 8.68	4.05
2434	Flint Mill Co., St. Louis, Mo. Green Diamond Hominy Feed	Fulton	G F	10. 10.38	7. 9.97	3.73
2404	Husted Milling Co., Buffalo, N. Y. Hominy Feed	Skaneateles	G F	9. 10.31	7. 8.11	3.26
2309	Hunter Bros. Milling Co., St. Louis, Mo. Pure Hominy Feed Kiln Dried	Kingston	G F	8.50 10.31	7. 7.81	3.05
2617	Miner-Hillard Milling Co., Wilkes Barre, Pa. Choice Steam Cooked Hominy Feed	Middletown	G F	10. 10.69	7.50 8.83	3.28
2339	Oneonta Milling Co., Buffalo, N. Y. Susquehanna Hominy Chop	Harpursville	G F	10. 11.19	7. 6.84	3.38
2342	The Patent Cereals Co., Geneva, N. Y. Hominy Chop	Ouaquaga	G F	10. 10.38	7. 7.30	2.90
2438	Plymouth Milling Co., Le Mars, Iowa Plymouth's Pure Hominy Feed	Phoenix	G F	10. 10.38	8.80 8.72	4.25
2661	Suffern, Hunt & Co., Decatur, Ill. Hominy Feed	Maywood	G F	9.30 10.06	7.10 7.36	2.22
2611	Thompson & Mould Goshen, N. Y. Special Hominy Meal	Walden	G F	10. 10.	7. 8.44	4.51

* 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>
	HOMINY FEEDS:					
2588	United States Frumentum Co., Detroit, Mich. Frumentum Hominy Feed	Franklinville	G* F*	11.06 10.56	9.67 8.09	3.52
	COMPOUNDED FEEDS:					
2523	Acme Milling Co., Olean, N. Y. Acme Feed	Olean	G F	8.75 9.38	4.20 4.26	6.70
2691	J. & T. Adikes, Jamaica, N. Y. Ground Feed	Jamaica	G F	8.75 8.44	3. 3.09	5.13
2652	The Alfalfa Meal & Milling Co., Cherokee, Okla. Maz-A-Flora Stock Feed	New York	G F	14. 13.06	3.50 3.08	12.24
2531	Ames-Burns Co., Jamestown, N. Y. A. B. C. Cattle Feed	Jamestown	G F	20. 21.56	8. 7.80	7.77
2387	Ames-Burns Co., Jamestown, N. Y. Consolidated Dairy Feed	Utica	G F	16. 16.04	3. 3.84	8.05
2584	Ames-Burns Co., Jamestown, N. Y. Consolidated Dairy Feed	Fredonia	G F	16. 14.97	3.50 4.27	8.20
2606	Ames-Burns Co., Jamestown, N. Y. Consolidated Dairy Feed	Troy	G F	16. 15.74	3.50 4.53	
2353	The American Cereal Co., Chicago, Ill., Quaker Dairy Feed	Edmeston	G F	12. 14.40	3. 3.86	13.31
2316	American Milling Co., Chicago, Ill., Sucrene Dairy Feed	Stamford	G F	16.50 17.16	3.50 4.24	8.30
2563	American Milling Co., Chicago, Ill., Sucrene Dairy Feed	Le Roy	G F	16.50 17.	3.50 4.67	7.84

* 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>
2592	COMPOUNDED FEEDS: American Milling Co., Chicago, Ill., Sucrene Dairy Feed	Fulton	G* F*	16.50 16.93	3.50 4.03	8.22
2593	American Milling Co., Chicago, Ill., Sucrene Horse & Mule Feed	Fulton	G F	10. 11.99	3. 3.92	7.41
2447	American Milling Co., Chicago, Ill., Sucrene Horse, Mule & Ox Feed	Earlville	G F	10. 11.14	3. 3.21	6.51
2682	Andrews, Son & Co., Penn Yan, N. Y. Corn, Oats & Bran	Penn Yan	G F	— 11.81	— 4.41	4.09
2530	Barber Consolidated Feed Co., Buffalo, N. Y. Economy Sugar Feed	Jamestown	G F	15. 14.31	3. 3.20	14.46
2378	The Beck Cereal Co., Detroit, Mich. Royal Corn & Oat Feed	Utica	G F	8.31 8.13	5.10 4.66	5.50
2397	The J. W. Biles Co., Cincinnati, O. Union Grains Biles' Ready Ration	Canastota	G F	24. 22.25	7. 7.47	8.48
2681	The Birkett Mills Penn Yan, N. Y. Buckwheat Bran & Corn	Penn Yan	G F	5.94 5.87	2.02 1.62	27.69
2391	Blatchford's Calf Meal Fac- tory, Waukegan, Ill., Blatchford's Calf Meal	Boonville	G F	25. 24.63	5. 4.41	
2609	Blatchford's Calf Meal Fac- tory, Waukegan, Ill. Blatchford's Sugar & Flax- seed	Poughkeepsie	G F	27. 26.	10. 9.67	
2653	S. W. Bowne & Co., Brooklyn, N. Y. Ground Feed	Brooklyn	G F	8. 9.31	3.25 6.21	4.17

* 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>
2692	COMPOUNDED FEEDS: The Brooklyn Elevator & Mil- ling Co., Brooklyn, N. Y. Ground Feed	Mineola	G* F*	9.50 9.69	3.05 4.33	4.63
2393	Buffalo Cereal Co., Buffalo, N. Y. Buf-Ce-Co Stock Feed	Boonville	G F	9. 9.44	4.50 4.48	5.34
2414	Buffalo Cereal Co., Buffalo, N. Y. Chop Feed	Auburn	G F	7.50 8.13	3.50 4.55	6.09
2545	Buffalo Cereal Co., Buffalo, N. Y. Creamery Feed	Buffalo	G F	20. 20.43	5. 6.31	6.36
2544	Buffalo Cereal Co., Buffalo, N. Y. Dairy Feed	Buffalo	G F	14. 15.19	4. 3.97	7.79
2330	Buffalo Cereal Co., Buffalo, N. Y. Horse Feed	Sidney	G F	12. 11.50	4.50 4.	7.26
2478	Chapin & Co., Milwaukee, Wis. Acorn Dairy Ration	Canton	G F	26. 27.31	6. 7.23	7.09
2487	Clinton Milling & Grain Co., Plattsburg, N. Y. Derby Feed	Plattsburg	G F	7. 7.37	3.56 2.95	9.48
2440	Clark & Mercer, Baldwinsville, N. Y. Meal & Bran	Baldwinsville	G F	12.05 11.69	4.15 4.92	3.50
2645	The Corno Mills Co., East St. Louis, Ill. Corno Horse & Mule Feed	New York	G F	10. 10.63	3.50 3.72	14.17
2658	Crow & Williams, Ossining, N. Y. Crow & Williams Mixed Feed	Ossining	G F	8. 10.44	3. 4.57	5.70
2485	Dock & Coal Co., Plattsburg, N. Y. Dandy Corn & Oat Bran Feed	Saranac Lake	G F	9.71 9.13	5.35 5.30	3.69

* 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>
2488	COMPOUNDED FEEDS: Dock & Coal Co., Plattsburg, N. Y. Buttercup Feed	Plattsburg	G* F*	24. 29.88	8. 11.11	
2486	Dock & Coal Co., Plattsburg, N. Y. Tip Top Feed	Saranac Lake	G F	10. 11.13	4. 4.05	7.90
2619	Francis Duhne, Jr., Milwaukee, Wis. Molasses Milk Feed	Middletown	G F	15. 11.69	3. 2.30	14.48
2498	Elsworth & Co., Buffalo, N. Y. De-Fi Corn & Oat Feed	Albany	G F	8.30 8.	3. 2.43	13.63
2587	Empire Manufacturing Co., Franklinville, N. Y. Empire Stock Feed	Franklinville	G F	18. 19.13	4. 6.34	7.20
2461	Empire Grain & Elevator Co., Binghamton, N. Y. Neverfail Dairy Feed	Binghamton	G F	20. 22.19	5. 5.65	7.49
2415	Empire Mills, Olean, N. Y. Empire Feed	Auburn	G F	7.63 8.94	2.97 4.46	3.53
2303	Everett & Treadwell Co., Kingston, N. Y. C. O. & W. Feed	Kingston	G F	11.50 12.19	3.50 3.86	3.44
2679	Faramel Manufacturing Co., Buffalo, N. Y. Dairy Feed	Buffalo	G F	— 11.77	— 2.57	9.66
2678	Faramel Manufacturing Co., Buffalo, N. Y. Horse & Cattle Food	Buffalo	G F	— 8.85	— 3.88	4.94
2597	Flint Mill Co., Milwaukee, Wis. Triangle Calf Feed	Camden	G F	22. 19.56	10 8.92	2.33
2550	General Flour & Feed Co., Buffalo, N. Y. Big "4" Chop	Buffalo	G F	8.31 10.44	3.38 2.93	8.75

* 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>
2676	COMPOUNDED FEEDS: General Flour & Feed Co., Buffalo, N. Y. Honest Cow Feed	Buffalo	G* F*	24. 23.	6. 6.75	6.04
2591	Gilbert & Nichols Co., Fulton, N. Y. Fulton Dairy Feed	Fulton	G F	26. 26.50	6. 7.07	7.98
2566	Globe Elevator Co., Buffalo, N. Y. A-1 White Middlings	Buffalo	G F	12. 12.43	2. 3.02	6.57
2519	Globe Elevator Co., Buffalo, N. Y. Dairy Mixed Feed	Wellsville	G F	11. 10.31	3. 3.08	15.69
2512	Globe Elevator Co., Buffalo, N. Y. No. 1 Corn and Oat Chop	Bath	G F	7. 8.88	3. 4.64	8.12
2521	Globe Elevator Co., Buffalo, N. Y. Special Corn & Oat Feed	Belmont	G F	5. 9.75	2. 3.60	14.84
2546	Globe Elevator Co., Buffalo, N. Y. Standard A Bran	Buffalo	G F	10. 10.80	3. 3.99	15.81
2547	Globe Elevator Co., Buffalo, N. Y. Standard A Middlings	Buffalo	G F	12. 11.63	3. 3.56	14.80
2548	Globe Elevator Co., Buffalo, N. Y. Corn Meal B	Buffalo	G F	7. 8.04	2. 3.33	5.16
2674	Globe Elevator Co., Buffalo, N. Y. Standard A Middlings	Springville	G F	12. 14.31	3. 4.90	9.69
2801	Globe Elevator Co., Buffalo, N. Y. Globe Mill Feed	Lawyersville	G F	10. 15.81	2. 4.67	
2354	F. W. Goeke & Co., St. Louis, Mo. Holstein Sugar Feed Dair Feed	Edmeston	G F	15. 15.69	3. 3.52	14.39

* 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>
2538	COMPOUNDED FEEDS: J. Gorman Buffalo, N. Y. Boat Sweepings	Buffalo	G* F*	5. 13.50	2. 3.17	4.01
2470	D. H. Grandin, Jamestown, N. Y. Eagle Corn & Oat Feed	Ithaca	G F	7.50 8.25	2.50 4.48	8.38
2529	D. H. Grandin, Jamestown, N. Y. Eagle Corn & Oat Feed	Jamestown	G F	7.50 7.56	2.50 4.09	8.14
2308	The Great Western Cereal Co., Chicago, Ill. Boss Chop Feed	Kingston	G F	8. 8.75	3.50 3.69	6.21
2369	The Great Western Cereal Co., Chicago, Ill. Daisy Dairy Feed	Norwich	G F	16. 14.13	3. 3.12	9.15
2605	The Great Western Cereal Co., Chicago, Ill. Daisy Dairy Feed	Ogdensburg	G F	14. 12.54	3. 2.30	
2688	The Great Western Cereal Co., Chicago, Ill., Daisy Horse Feed	Albany	G F	12. 12.69	3.50 1.65	10.95
2557	The Great Western Cereal Co., Chicago, Ill. Gregson Calf Meal	Batavia	G F	25. 23.69	5. 6.96	
2643	The Great Western Cereal Co., Chicago, Ill. Maizefalfa Feed	New York	G F	12. 11.88	4. 2.79	11.77
2448	The Great Western Cereal Co., Chicago, Ill., Sterling Stock Feed	Oxford	G F	11. 10.19	4. 2.60	8.03
2313	W. H. Haskell & Co., Toledo, O. Haskell's Stock Feed	Roxbury	G F	8. 9.56	4. 7.28	4.95
2516	Henry & Missert, Buffalo, N. Y. Holstein Milk Food	Addison	G F	15. 20.88	8. 8.60	

* 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>
2532	COMPOUNDED FEEDS: Henry & Missert, Buffalo, N. Y. B. S. Stock Feed	Buffalo	G* F*	11. 14.37	2. 3.36	5.40
2332	The H-O Co., Buffalo, N. Y. The H-O Co.'s Algrane Horse Feed	Sidney	G F	12. 12.25	4.50 4.46	8.
2493	The H-O Co., Buffalo, N. Y. The H-O Co.'s Algrane Milk Feed	Ballston Spa.	G F	14. 19.25	4. 4.75	8.91
2539	The H-O Co., Buffalo, N. Y. The H-O Co.'s Jim Dandy Feed	Buffalo	G F	7.50 6.13	2.75 2.44	23.13
2494	The H-O Mills, Buffalo, N. Y. Force Screenings	Ballston Spa.	G F	11. 11.25	3. 3.86	
2509	Hoco Mills, Buffalo, N. Y. New England Stock Feed N-E-S-F	Schenectady	G F	9. 9.25	4. 4.36	9.23
2515	Hodgman Milling Co., Painted Post, N. Y. Corn & Oats Chop Feed	Painted Post	G F	9.69 9.06	3.88 3.65	3.21
2636	Geo. S. Howe, Burlington, Vt. Bran	Burke	G F	 11.31	 2.85	16.25
2480	B. F. Hull & Co., Gouverneur, N. Y. Corn, Oats & Bran	Gouverneur	G F	 11.38	 4.35	4.15
2657	The Hunter Bros. Milling Co., St. Louis, Mo., Dairy Feed	Peekskill	G F	15. 15.50	3. 2.39	9.99
2405	Husted Milling Co., Buffalo, N. Y. Husted Monarch Chop	Skaneateles	G F	7.50 8.06	3.50 3.95	9.21

* 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>
2417	COMPOUNDED FEEDS: Husted Milling Co., Buffalo, N. Y. Husted Dairy Feed	Auburn	G* F*	18. 17.75	3. 4.78	7.62
2429	Husted Milling Co., Buffalo, N. Y. Regal Chop	Geneva	G F	7. 7.88	3. 4.16	9.05
2433	Husted Milling Co., Buffalo, N. Y. Husted Horse Feed	Fulton	G F	12. 12.94	4. 4.65	
2442	Husted Milling Co., Buffalo, N. Y. Husted Corn & Oat B	Herkimer	G F	9. 12.	4. 4.87	5.09
2475	Husted Milling & Elevator Co., Buffalo, N. Y. Fine Ground Eclipse Feed	Oswego	G F	9. 10.88	4. 4.71	4.11
2484	Husted Milling Co., Buffalo, N. Y. Husted Yellow Provender	Saranac Lake	G F	7. 8.	4. 3.79	4.99
2569	Husted Milling Co., Buffalo, N. Y. Monarch Dairy Feed	Buffalo	G F	7. 9.31	3. 5.34	7.69
2571	Husted Milling Co., Buffalo, N. Y. Husted's Stock Feed	Buffalo	G F	8. 9.31	4. 5.77	7.47
2540	Hydraulic Milling Co., Buffalo, N. Y. Standard Chop Feed	Buffalo	G F	6.44 9.81	2.53 5.97	5.31
2454	Indiana Milling Co., Terre Haute, Ind. Jersey Mixed Feed	Binghamton	G F	10. 10.06	2. 3.18	14.73
2615	Indiana Milling Co., Terre Haute, Ind. Jersey Middlings	Montgomery	G F	10. 10.56	2. 2.42	11.17
2305	International Sugar Feed Co., Minneapolis, Minn. International Sugared Feed for Milk Cows.	Kingston	G F	16.50 18.33	3.50 4.72	10.22

* 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>
2667	COMPOUNDED FEEDS: International Sugar Feed Co., Minneapolis, Minn. International Sugared Feed for Horses	Kingston	G* F*	12.50 12.90	5. 4.37	6.66
2357	H. Jennings, Boston, Mass. H. J. Flax Feed	New Berlin	G F	16. 15.31	14. 12.50	
2623	The Kakiat Co., Suffern, N. Y. Kakiat Horse Feed	Suffern	G F	12.50 14.63	4.25 5.79	5.88
2319	Chas. A. Krause Milling Co., Milwaukee, Wis. Badger Dairy Feed	Hobart	G F	18. 16.75	4.50 5.53	
2456	Chas. A. Krause Milling Co., Milwaukee, Wis. Badger Stock Feed	Cortland	G F	10. 12.95	4. 5.02	8.72
2503	Chas. A. Krause Milling Co., Milwaukee, Wis. Badger Dairy Feed	Delhi	G F	18. 16.78	4.50 4.91	7.39
2583	Chas. A. Krause Milling Co., Milwaukee, Wis. Badger Dairy Feed	Dunkirk	G F	18. 13.08	4.50 4.10	10.15
2589	Chas. A. Krause Milling Co., Milwaukee, Wis. Badger Dairy Feed	Arcade	G F	18. 16.08	4.50 4.15	7.96
2306	Matthews & Harrison, Kingston, N. Y. Arcade Mixed Feed	Kingston	G F	10.42 9.44	5.86 4.36	8.13
2651	The Meader Atlas Co., New York, N. Y. Atlas Horse Feed	New York	G F	10. 6.25	2. 1.08	5.24
2435	Milwaukee Grains & Feed Co., Milwaukee, Wis. XXX Feed	Fulton	G F	17.50 14.79	2. 2.72	10. 7.06
2471	Milwaukee Grains & Feed Co., Milwaukee, Wis. Red Tag Cow Feed	Ithaca	G F	17. 11.60	3. 1.47	7.16

* 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>
2346	COMPOUNDED FEEDS: Morrisey J. Mudge, Afton, N. Y. Meal and Bran or Mixed Feed	Afton	G* F*	11.38	4.49	4.59
2441	E. P. Mueller, Milwaukee, Wis. Mueller's Molasses Grains	Herkimer	G F	8.09	1.08	14.06
2526	Henry Neff, Salamanca, N. Y. Seneca Chop	Salamanca	G F	6. 8.02	2. 3.19	6.87
2469	North West Mills Co., Winona, Minn. Sugarota Dairy Feed	Ithaca	G F	18. 17.44	4.50 9.33	11.03
2500	North West Mills Co., Winona, Minn. Sugarota Horse Feed	Cobleskill	C F	12. 14.94	3.50 4.58	18.34
2501	North West Mills Co., Winona, Minn. Sugarota Calf Meal	Cobleskill	G F	25. 26.	6. 6.49	
2368	North West Mills Co., Winona, Minn. Sugarota Dairy Feed	Norwich	G F	18. 16.25	4.50 4.55	18.06
2377	F. C. Ogden, Utica, N. Y. Ogden's Special Horse Feed	Utica	G F	11. 10.75	4. 6.14	4.83
2603	Ogdensburg Roller Mills, Ogdensburg, N. Y. St. Lawrence Dairy Feed	Ogdensburg	G F	10. 9.25	4. 3.50	6.09
2604	Ogdensburg Roller Mills, Ogdensburg, N. Y. Oswegatchie Corn & Oat Chop Feed	Ogdensburg	G F	8. 8.81	4. 2.69	5.72
2522	Olean Mills, Olean, N. Y. Chop Feed	Olean	G F	7. 8.69	2. 4.04	3.44

* 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>
COMPOUNDED FEEDS:						
2343	Oneonta Milling Co., Oneonta, N. Y. Corn & Oat Provender	Bainbridge	G* F*	8.75 9.25	3.50 3.14	4.62
2491	Oneonta Milling Co., Oneonta, N. Y. Arrow Corn & Oat Feed	Ft. Edward	G F	9. 8.94	3.75 3.37	2.91
2624	John Orr & Co., Mountainville, N. Y. Horse Feed	Mountainville	G F	13.20 11.44	3.90 3.99	3.40
2626	Wm. Orr & Sons Orr's Mills, N. Y. Orr's Mixed Feed	Orr's Mills	G F	7.50 11.63	2. 3.83	3.82
2565	The Otto Weiss Alfalfa Stock Food Co., Wichita, Kansas Otto Weiss Alfalfa Stock Food	Buffalo	G F	12. 12.	3.50 3.66	9.18
2614	M. C. Peters Mill Co., Omaha, Neb. June Pasture Dairy Meal	Montgomery	G F	13. 12.86	2. 1.11	22.82
2641	M. C. Peters Mill Co., Omaha, Neb. Peters' Arab Balanced Horse Feed	New York	G F	11.50 9.56	3. 3.32	7.81
2642	M. C. Peters Mill Co., Omaha, Neb. Peters' Alfalfa-Fat Sugar Meal	New York	G F	11. 12.04	2.50 .84	13.88
2514	Phelps & Sibley Co., Cuba, N. Y. P & S Feed	Bath	G F	7.50 8.63	3. 3.22	3.39
2325	The Quaker Oats Co., Chicago, Ill. Schumacher Calf Feed	East Meredith	G F	19. 20.25	8. 7.88	2.75
2356	The Quaker Oats Co., Chicago, Ill. Schumacher (FS) Stock Feed	New Berlin	G F	10. 10.38	4. 3.15	8.28

* 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>
2386	COMPOUNDED FEEDS: The Quaker Oats Co., Chicago, Ill. C. O. & B. Feed Kiln Dried	Utica	G* F*	10. 10.31	4. 3.95	9.58
2408	The Quaker Oats Co., Chicago, Ill. Victor Feed	Syracuse	G F	7.50 7.88	3. 3.62	10.70
2432	The Quaker Oats Co., Chicago, Ill. Buckeye Mixed Feed	Moravia	G F	13. 15.75	4. 4.73	7.76
2585	The Quaker Oats Co., Chicago, Ill. Corn Feed Meal	Mayville	G F	8.50 9.13	3. 6.45	1.42
2345	Rood & Parsons, Bainbridge, N. Y. Mixed Feed	Bainbridge	G F	— 11.38	— 6.89	4.48
2409	Ryan Bros. Jamesville, N. Y. Barley Meal	Syracuse	G F	— 13.38	— 3.53	7.86
2567	Stein & Wittlin, Buffalo, N. Y. S. W. Mixed Feed	Buffalo	G F	8. 8.38	2. 1.79	15.31
2502	The Strong Lefferts Co., Springfield, Mass. Chester Stock Food	Middleburgh	G F	7.50 8.88	3.50 4.29	7.29
2317	The Sugarine Co., Chicago, Ill., Sugarine Dairy Feed	Hobart	G F	16.50 16.95	3.50 5.01	8.12
2479	The Sugarine Co., Chicago, Ill., Sugarine Horse Feed	Gouverneur	G F	13.50 12.04	3.50 3.65	7.85
2359	Chas. D. Shippey, New Berlin, N. Y. Hominy & Bran Mixed Feed	New Berlin	G F	— 12.50	— 5.63	5.94
2562	Allen V. Smith, Marcellus Falls, N. Y. Allen V. Smith's Barley Feed	Marcellus Falls	G F	13. 14.94	3. 4.35	7.50

* 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>
2601	COMPOUNDED FEED: Geo. A. Taylor & Co., Ogdensburg, N. Y. Stock Feed	Lafargeville	G* F*	8. 8.31	4. 3.79	6.53
2307	The Toledo Elevator Co., Toledo, O. Star Feed	Kingston	G F	7. 8.56	6.50 6.41	9.47
2474	The Toledo Elevator Co., Toledo, O. Star Cotton Feed	Oswego	G F	10. 11.81	6.50 6.61	8.91
2524	The Toledo Grain & Milling Co., Toledo, O. M. D. Chop Feed	Little Valley	G F	7.306 8.19	3.875 3.56	4.63
2525	The Toledo Grain & Milling Co., Toledo, O. Feed Meal	Little Valley	G F	7.50 8.31	3.50 3.94	3.59
2673	United States Sugar Feed Co. Milwaukee, Wis. Sugar Feed	Whitney Point	G F	16. 15.13	3. 2.93	8.29
2318	Van Buren & Conkling, Hobart, N. Y. Horse Feed No. 2	Hobart	G F	11. 11.31	5. 4.27	4.98
2586	Victor Mills, Springville, N. Y. Corn, Oats & Barley	Springville	G F	7. 10.	4. 5.33	3.91
2390	A. Waller & Co., Henderson, Ky. Oneida Mixed Feed	Boonville	G F	10. 10.25	2.50 3.01	13.45
2638	A. Waller & Co., Henderson, Ky. Stone Mills Mixed Feed	Wayland	G F	10. 11.19	2. 3.42	14.26
2323	Western Grain Products Co., Hammond, Ind. Hammond Dairy Feed	East Meredith	G F	17. 16.06	3. 4.27	9.06
2600	Western Grain Products Co., Hammond, Ind. Hammond Dairy Feed	Carthage	G F	17. 15.87	3. 4.48	8.95

*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>
2608	COMPOUNDED FEEDS: Western Grain Products Co., Hammond, Ind. Hammond Dairy Feed	Hudson	G* F*	17. 15.29	3. 5.05	
2625	Western Grain Products Co., Hammond, Ind. Hammond Dairy Feed	Mountainville	G F	17. 14.34	3. 4.40	7.68
2462	Western Dairy Feed Co., Milwaukee, Wis. Red Cow Dairy Feed	Binghamton	G F	15. 15.31	3. 6.03	9.50
2559	William J. Wheelock, Greigsville, N. Y. Banner Dairy Feed	Greigsville	G F	22. 22.56	4. 4.70	9.02
	ANIMAL PRODUCTS: (BONE, MEAT MEALS, ETC.)					
2360	The Armour Fertilizer Works, Chicago, Ill. Beef Scraps for Poultry	Norwich	G F	55. 61.50	12. 18.43	
2361	The Armour Fertilizer Works, Chicago, Ill. Feeding Bone Flour	Norwich	G F	23. 22.69	1. 5.18	
2363	The Armour Fertilizer Works, Chicago, Ill. Pure Blood Meal	Norwich	G F	85. 80.63	2. .12	
2362	The Armour Fertilizer Works, Chicago, Ill. Meat Meal for Poultry	Norwich	G F	50. 65.50	10. 12.66	
2663	Chas. E. Beebe, Altamont, N. Y. Ground Bone	Altamont	G F	— 18.80	— 13.09	
2685	Burr Bentley, Delanson, N. Y. Fresh Cut Meat & Bone for Poultry	Delanson	G F	25. 20.34	5. 10.08	
2383	The Berg Co., Philadelphia, Pa. 3 Medal Poultry Meat	Utica	G F	50. 67.38	13. 11.55	

* 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>
	ANIMAL PRODUCTS: (BONE, MEAT MEALS, ETC.)					
2427	The Bowker Co., Boston & New York Bowker's Animal Meal	Brockport	G* F*	40. 33.32	5. 10.75	
2631	Bowker Fertilizer Co., New York, N. Y. Bowker's Beef Scraps	Port Jervis	G F	30. 49.75	20. 12.44	
2664	James E. Crounse, Altamont, N. Y. Fresh Cut Bone	Altamont	G F	— 21.90	— 14.16	
2579	Cyphers Incubator Co., Buffalo, N. Y. High Protein Beef Meal	Buffalo	G F	40. 51.13	6. 13.03	
2580	Cyphers Incubator Co., Buffalo, N. Y. High Protein Beef Scrap for Poultry	Buffalo	G F	55. 57.19	15. 15.77	
2581	Cyphers Incubator Co., Buffalo, N. Y. High Protein Poultry Bone (Medium)	Buffalo	G F	25. 26.06	5. 1.16	
2582	Cyphers Incubator Co., Buffalo, N. Y. High Protein Poultry Bone Meal	Buffalo	G F	25. 26.06	— 3.18	
2310	Darling & Co., Long Island City, N. Y. Darling's Pure Ground Beef Scraps	Kingston	G F	55. 56.85	10. 12.59	
2647	Darling & Co., Long Island City, N. Y. Darling's Granulated Bone for Poultry	New York	G F	20. 21.31	2. 2.05	
2687	Darling & Co., Long Island City, N. Y. Darling's Raw Bone Meal for Poultry	Albany	G F	20. 23.19	2. 4.67	

* 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>
	ANIMAL PRODUCTS: (BONE, MEAT MEALS, ETC.)					
2696	Darling & Co., Long Island City, N. Y. Darling's Pure Ground Beef Meal for Poultry	Long Island City	G* F*	45. 44.63	5. 13.48	
2355	Geo. M. Finn, Syracuse, N. Y. Ground Beef & Bone Scrap Chicken Feed	Edmeston	G F	35.45 37.60	15.20 17.74	
2423	Geo. L. Harding, Binghamton, N. Y. Harding's High Grade Beef Scrap.	Rochester	G F	40. 38.56	18. 17.98	
2444	Geo. L. Harding, Binghamton, N. Y. Harding's Celebrated Meat Meal	Waterville	G F	45. 39.50	10. 8.14	
2528	Harvey Seed Co., Buffalo, N. Y. Ground Beef Scrap for Poul- try	Jamestown	G F	50. 67.13	9. 11.52	
2668	Geo. E. McCoy, Peekskill, N. Y. Evaporated Bone & Meat Meal	Peekskill	G F	31. 36.31	5. 9.75	
2554	Model Milling Co., Buffalo, N. Y. Model Beef Scraps	Buffalo	G F	63. 66.93	10. 9.87	
2628	Newburg Rendering Co., Newburg, N. Y. Animal Meal for Poultry	Newburg	G F	35. 39.19	12.90 10.54	
2510	Carroll S. Page, Hyde Park, Vermont Ground Scraps	Cambridge	G F	60. 50.94	22. 29.10	
2511	Carrol S. Page, Hyde Park, Vermont Cracked Bone	Cambridge	G F	— 25.25	— 2.92	

* 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>
2379	ANIMAL PRODUCTS: (BONE, MEAT MEALS, ETC.) Richmond Abbatoir, Richmond, Va. Rarva Meat Meal	Utica	G* F*	85. 82.44	7. 7.24	
2654	M. L. Shoemaker & Co., Philadelphia, Pa. Beef Scraps	Brooklyn	G F	55. 56.25	10. 13.62	
2520	Spratt's Patent (America) Limited, Newark, N. J. Ground Meat	Wellsville	G F	43. 41.88	11. 16.20	
2686	Springfield Rendering Co., Springfield, Mass. Beef Scraps	Albany	G F	40. 43.31	15. 15.24	
2350	H. M. Stanton, Schenectady, N. Y. Ground Beef Scraps	Unadilla	G F	40. 41.35	15. 20.17	
2646	Stumpp & Walter Co., New York, N. Y. Quality Kind Beef Scraps	New York	G F	50. 55.31	14. 13.93	
2633	Swift & Co., Kearny, N. J. Beef Scrap	Port Jervis	G F	55. 58.44	10. 16.38	
2347	Swift's Lowell Fertilizer Co., Boston, Mass. Swift's Lowell Beef Scraps	Afton	G F	40. 44.58	15. 10.99	
2364	Swift's Lowell Fertilizer Co., Boston, Mass. Edible Bone Meal	Norwich	G F	20. 24.56	5. 9.39	
2365	Swift's Lowell Fertilizer Co., Boston, Mass. Cracked Bone	Norwich	G F	20. 27.31	5. 3.90	
2380	Swift's Lowell Fertilizer Co., Boston, Mass. Swift's Lowell Bone & Meat Meal	Utica	G F	40. 42.19	8. 11.53	

* 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>
2410	POULTRY FEEDS: The Armour Fertilizer Works, Chicago, Ill. Granulated Poultry Bone	Syracuse	G F	25. 25.25	5. 1.27	
2412	Buffalo Cereal Co., Buffalo, N. Y. Buf-Ce-Co Chick Feed	Syracuse	G F	12.50 11.56	2. 2.22	
2443	Buffalo Cereal Co., Buffalo, N. Y. Poultry Feed	Herkimer	G F	17. 16.44	5. 4.50	4.24
2400	The Albert Dickinson Co., Chicago, Ill. Crescent Chick Feed	Canastota	G F	10.50 9.75	3. 2.81	
2311	The Albert Dickinson Co., Chicago, Ill. Globe Scratch Feed (No Grit)	Rondout	G F	10.50 11.38	3. 3.59	
2312	The Albert Dickinson Co., Chicago, Ill. King Pigeon Feed (No Grit)	Rondout	G F	10.50 12.06	3. 2.93	
2496	The Albert Dickinson Co., Chicago, Ill. Pine Tree Scratch Feed	Albany	G F	10.50 10.44	3. 2.83	
2411	The Albert Dickinson Co., Chicago, Ill. Queen Poultry Mash	Syracuse	G F	10.50 11.31	3. 2.77	4.86
2497	The Albert Dickinson Co., Chicago, Ill. Sun Chick Starter	Albany	G F	10.50 9.81	3. 2.43	
2338	E. W. Conklin & Son, Binghamton, N. Y. Arrow Egg Food	Windsor	G F	11.45 11.56	3.85 3.44	
2464	E. W. Conklin & Son, Binghamton, N. Y. Arrow Chick Food	Binghamton	G F	11.50 11.31	4.30 3.14	
2455	Geo. Craver's Sons, Binghamton, N. Y. C. & S. Chick Food	Cortland	G F	10. 10.81	4.20 3.21	

* 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>
2449	POULTRY FEEDS: Geo. Craver's Sons, Binghamton, N. Y. Gold Brand Poultry Food	Oxford	G* F*	8. 9.13	2. 2.63	
2413	Cyphers Incubator Co., Buffalo, N. Y. Chick Food	Syracuse	G F	10.54 12.13	3.40 3.27	
2577	Cyphers Incubator Co., Buffalo, N. Y. Cyphers Developing Food	Buffalo	G F	10.90 10.63	3. 3.04	
2574	Cyphers Incubator Co., Buffalo, N. Y. Cyphers Forcing Food	Buffalo	G F	12.89 11.44	3.80 3.79	2.07
2575	Cyphers Incubator Co., Buffalo, N. Y. Cyphers Laying Food	Buffalo	G F	17.31 17.44	3.80 3.77	2.39
2576	Cyphers Incubator Co., Buffalo, N. Y. Cyphers Scratching Food	Buffalo	G F	11.05 11.	3. 3.24	
2700	Darling & Co., Long Island City, N. Y. Darling's Alfalfa Meal for Poultry	L. I. City	G F	15. 13.50	2. 1.56	26.63
2694	Darling & Co., Long Island City, N. Y. Darling's Chick Feed for Poul- try	Eastport	G F	8. 8.50	1. 1.62	
2699	Darling & Co., Long Island City, N. Y. Darling's Forcing Food for Poultry	L. I. City	G F	15. 18.63	3.50 4.47	4.04
2697	Darling & Co., Long Island City, N. Y. Darling's Laying Food for Poultry	L. I. City	G F	18. 16.75	3.50 4.21	5.21
2698	Darling & Co., Long Island City, N. Y. Darling's Scratching Food for Poultry	L. I. City	G F	8. 10.63	2.50 3.20	

* 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>
2358	POULTRY FEEDS: R. D. Eaton Grain & Feed Co. Norwich, N. Y. Eaton's Climax Grain Mixture for Laying Fowls	New Berlin	G* F*	11. 11.44	2. 3.36	
2372	R. D. Eaton Grain & Feed Co. Norwich, N. Y. Eaton's Perfection Mash Mix- ture for Laying Fowls	Norwich	G F	20. 22.94	4. 3.74	7.29
2315	Empire Grain & Elevator Co., Binghamton, N. Y. Neverfail Egg Producer	Stamford	G F	8.75 10.69	3.75 3.01	
2463	Empire Grain & Elevator Co., Binghamton, N. Y. Neverfail Chick Raiser	Binghamton	G F	11. 10.44	2.50 2.59	
2344	Good Luck Mills, St. Louis, Mo., Good Luck Mill Feed Scratch	Bainbridge	G F	9. 10.06	3. 3.06	
2382	The Great Western Cereal Co. Chicago, Ill. Sterling Chick Feed	Utica	G F	12. 9.75	3.50 1.63	
2630	The Great Western Cereal Co. Chicago, Ill. Sterling Scratch Feed	Port Jervis	G F	12. 10.75	3. 3.96	
2381	Harvey Seed Co., Buffalo, N. Y. Electric Poultry Food	Utica	G F	12. 15.94	3. 3.29	3.85
2422	G. L. Harding, Binghamton, N. Y. Harding's Egg Builder	Rochester	G F	10. 11.25	3. 2.97	
2453	Geo. L. Harding, Binghamton, N. Y. Harding's Uncle Sam Baby Chick Food	Binghamton	G F	10. 13.56	2. 2.64	
2399	The H-O Company, Buffalo, N. Y. The H-O Co.'s Poultry Feed	Canastota	G F	17. 16.81	5.50 5.23	4.77

* 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.
				<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
2570	POULTRY FEEDS: Husted Milling Co., Buffalo, N. Y. Husted's Forcing Mash	Buffalo	G* F*	18. 19.50	5. 5.32	5.11
2568	Husted Milling Co., Buffalo, N. Y. Husted's Laying Mash	Buffalo	G F	15. 16.	3. 5.46	4.17
2418	Husted Milling Co., Buffalo, N. Y. Husted Poultry Feed	Auburn	G F	12. 14.19	4. 3.79	6.13
2690	The Illinois Seed Co., Chicago, Ill., Monitor Brand Chick Food	Albany	G F	10.50 10.63	3. 2.87	
2499	The Illinois Seed Co., Chicago, Ill., Phoenix Brand Poultry Feed	Albany	G F	10.50 11.31	3. 3.07	
2689	The Illinois Seed Co., Chicago, Ill., Reliance Brand Chick Feed	Albany	G F	10.50 12.44	3. 4.59	
2551	Model Milling Co., Buffalo, N. Y. Model Scratching Food	Buffalo	G F	12. 11.32	2.50 2.98	
2552	Model Milling Co., Buffalo, N. Y. Model Growing Chick Food	Buffalo	G F	11. 12.56	3.30 3.51	
2553	Model Milling Co., Buffalo, N. Y., Model Nursery Chick Food	Buffalo	G F	10.50 11.25	2.75 4.	
2555	Model Milling Co., Buffalo, N. Y. Model Broiler Mash	Buffalo	G F	19. 20.69	4. 5.01	5.44
2556	Model Milling Co., Buffalo, N. Y. Model Egg Mash	Buffalo	G F	20. 20.25	4.50 4.29	5.90
2426	Purina Mills, St. Louis, Mo. Purina Mill Feed Chick Size	Rochester	G F	11. 12.13	3.60 3.89	

* 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>
POULTRY FEEDS:						
2649	Purina Mills, St. Louis, Mo. Purina Mill Feed Mash Size	New York	G* F*	17. 16.83	2.50 2.42	8.66
2507	Purina Mills, St. Louis, Mo. Purina Mill Feed Scratch Size	Oneonta	G F	11. 11.19	3.60 3.31	
2513	The Quaker Oats Co., Chicago, Ill. American Poultry Feed	Bath	G F	12. 12.50	3.50 5.41	3.51
2333	The Quaker Oats Co., Chicago, Ill. Schumacher Scratching Grains	Bainbridge	G F	10.50 10.81	3. 3.47	
2650	Spratt's Patent (American) Ltd. Newark, N. J. Chick Meal No. 5	New York	G F	20. 21.56	3.50 3.68	
2620	L. R. Wallace, Middletown, N. Y. Mapes' Balanced Ration for Poultry	Middletown	G F	12. 13.13	4. 5.49	3.29
2656	W. F. Weston, Fishkill, N. Y. Ground Poultry Food	Fishkill	G F	 15.56	 5.26	5.77
MISCELLANEOUS:						
2366	Ames-Burns Co., Jamestown, N. Y. A. B. C. Cattle Feed	Norwich	G F	24. 21.31	8. 9.17	
2599	Cape Vincent Seed Co., Cape Vincent, N. Y. H. U. Pea Meal	Cape Vincent	G F	19.21 18.	1.72 1.24	23.25
2560	The Cleveland Seed Co., Avon, N. Y. Pea Meal	Greigsville	G F	23.32 21.94	1.93 1.88	13.51
2578	Cyphers Incubator Co., Buffalo, N. Y. Cut Alfalfa	Buffalo	G F	17.60 18.25	4. 2.51	20.93

* 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>
2602	MISCELLANEOUS: P. W. Devendorf, Lafargeville, N. Y. Clover Meal	Lafargeville	G* F*	10. 9.56	1. 2.41	27.61
2373	R. D. Eaton Grain & Feed Co. Norwich, N. Y. Eaton's Feeding Pea Meal	Norwich	G F	20. 26.94	1.46 2.42	4.
2558	Franklin Mills Co., Batavia, N. Y. Bran (Spring Wheat)	Batavia	G F	14.38	5.05	8.20
2675	Globe Elevator Co., Buffalo, N. Y. Corn Chop	Buffalo	G F	7. 8.88	2. 3.42	
2458	The Larrowe Milling Co., New York, N. Y. Dried Beet Pulp	Cortland	G F	8. 8.75	.50 .97	
2505	C. R. Lull, Milwaukee, Wis. Ground Flax Flakes	Delhi	G F	15. 16.19	15. 13.21	
2504	The D. L. Marshall Milling Co. Buffalo, N. Y. Marshall's Uniform Mixed Feed	Delhi	G F	16. 16.38	3. 4.31	5.38
2598	New Occidental Milling Co., Minneapolis, Minn. Aloras	Camden	G F	16. 15.06	5. 6.06	
2648	M. C. Peters Mill Co., Omaha, Neb. "Lucern" Alfalfa Meal	New York	G F	13.50 13.81	2.25 1.81	28.52
2348	M. G. Rankin & Co., Milwaukee, Wis. Durham Flax Meal	Afton	G F	17. 17.69	14. 13.98	
2541	The Shredded Wheat Co., Niagara Falls, N. Y. Shredded Wheat Waste	Niagara Falls	G F	10. 11.63	1.50 2.25	
2322	Star & Crescent Milling Co., Chicago, Ill. (Star) Middlings	Bloomville	G F	15. 17.	4. 5.28	6.16

*G and F stand respectively for Guaranteed and Found.

RESULTS OF INSPECTION OF CONCENTRATED COMMERCIAL FEEDING STUFFS FOR 1908-9.

NUMBER AND KINDS OF BRANDS LICENSED.

The brands of feeding stuffs licensed for 1909, prior to June 22, 1909, in each of the several classes are in number as follows, with numbers for previous years given for purposes of comparison:

	1902	1903	1904	1908	1909
Cottonseed-meals	3	5	6	10	12
Linseed meals	8	9	11	10	12
Gluten feeds and meals	12	8	15	12	20
Corn brans	2	1	3	3	3
Dried distillers' grains	5	14	9	15	9
Malt sprouts	4	4	5	27	24
Dried brewers' grains	2	1	—	8	12
Hominy feeds	16	13	13	20	20
Compounded feeds	68	81	76	104	165
Animal products	15	15	16	26	37
Poultry foods (compounded)	—	—	—	33	55
Barley products	—	—	—	2	—
Unclassified	—	—	—	12	16
Totals	<u>129</u>	<u>151</u>	<u>154</u>	<u>282</u>	<u>385</u>

The above figures show a great increase in the number of brands of licensed feeding stuffs offered for sale in New York. This increase has been most rapid in the last three or four years and has been due to great extent to the introduction into our markets of a class of feeding stuffs compounded in most cases by mixing two or more grain products, at least one manufacturing waste usually being present, often of a very inferior character. Seventy-six compounded feeds were licensed in 1904 and 220 in 1909. It is some of these mixtures that are a serious menace to the feeding stuffs trade and their presence in the markets, together with the occasional adulteration of standard feeds, makes necessary feed inspection by the State.

NUMBER AND KINDS OF BRANDS ANALYZED, WITH NUMBER SERIOUSLY BELOW
GUARANTEED COMPOSITION.

Classification	No. of brands sampled.	No. of samples analyzed.	No. of brands seriously below guarantee.
Cotton seed meals.....	9	15	2
Linseed meals.....	13	15	1
Dried distillers' grains.....	9	11	1
Malt sprouts.....	27	30	1
Dried brewers' grains.....	17	18	1
Gluten feeds.....	21	27	1
Corn brans.....	4	4	—
Hominy feeds.....	21	22	2
Compounded feeds.....	140	154	8
Animal products.....	38	38	4
Poultry feeds (compounded).....	53	53	1
Miscellaneous.....	16	16	—
Totals.....	<u>368</u>	<u>403</u>	<u>22</u>

So far as it is a question of the percentages of protein and fat the showing from the year's inspection of the feeds in the market is very satisfactory.

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 so to 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 1909, 220 compounded feeds,—57.2 per ct. of the total number of brands,—and that of the brands analyzed for 1908 130 belong to the compounded class,—52.4 per ct. of the total number of brands analyzed. The most significant fact in this connection is that a large number of 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, such a feed is found to contain less than 9 per ct. of crude protein and more than 10 per ct. of crude fiber, it becomes an object of suspicion. It is hardly possible to compound a mixture out of sound 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 fiber 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 considerably 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. Undesirable ingredients may be present even when the percentage of fiber is much below 10 per ct., as is clearly shown by samples reported in this bulletin. 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.

These examinations not only reveal the presence of oat hulls, peanut hulls, rice hulls, ground corn cob and weed seeds in the feeding stuffs found in New York markets, but also show that many of these mixtures are misbranded in a way calculated to deceive the purchaser, a deception which must be regarded as intentional.

Special examination has been made of various classes of feeds as follows:

Adulterated wheat offals.....	10	samples
Feeds containing alfalfa.....	6	"
Feeds apparently mixtures of ground farm grains or actually so....	50	"
Feeds containing molasses.....	36	"
Other compounded feeds.....	40	"
Total.....	142	

ADULTERATED WHEAT OFFALS.

The following table shows ten brands of wheat offals adulterated in every case with ground corn cob. Evidently ground corn cob is used, first, because it costs but little and, second, because it is not easily detected by the untrained eye and in this way many purchasers are deceived into paying grain prices for a mixture part of which has less value than poor oat straw. These mixtures are in some instances clearly misbranded. The names "A 1 white middlings," "Standard A Bran" and "Standard A Middlings" are not properly applied to any materials excepting pure offals from milling wheat and under the above names the sale of these adulterated wheat offals is unquestionably fraudulent unless the components of the mixtures are stated on the packages. If the wheat bran and corn cob used for mixing three of the brands manufactured by the Globe Elevator Co. of Buffalo were of average composition, into each ton of the mixtures was introduced not very far from 500 pounds of ground corn cob.

ADULTERATED WHEAT-OFFALS.

Sample	Brand name and manufacturer or jobber.		Protein.	Fat	Fiber.	Ingredients found.
			<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>	
2566	Globe Elevator Co., Buffalo, N. Y. A-1 White Middlings	G*	12.	2.		Wheat bran, middlings, corn cob.
		F*	12.43	3.02	6.57	
2519	Globe Elevator Co., Buffalo, N. Y. Dairy Mixed Feed	G	11.	3.		Wheat bran, corn cob.
		F	10.31	3.08	15.69	
2546	Globe Elevator Co., Buffalo, N. Y. Standard A Bran	G	10.	3.		Wheat bran, ground corn cob.
		F	10.80	3.99	15.81	
2547	Globe Elevator Co., Buffalo, N. Y. Standard A Middlings	G	12.	3.		Finely ground bran and corn cob.
		F	11.63	3.56	14.80	
2674	Globe Elevator Co., Buffalo, N. Y. Standard A Middlings	G	12.	3.		Wheat bran (finely ground), corn, corn cob, weed seeds.
		F	14.31	4.90	9.69	
2615	Indiana Milling Co., Terre Haute, Ind. Jersey Middlings	G	10.	2.		Wheat bran, wheat mid- dlings, corn cob.
		F	10.56	2.42	11.17	
2454	Indiana Milling Co., Terre Haute, Ind. Jersey Mixed Feed	G	10.	2.		Wheat bran, corn cob.
		F	10.06	3.18	14.73	
2567	Stein & Wittlin, Buffalo, N. Y. S. W. Mixed Feed	G	8.	2.		Bran, mid- dlings, corn cob.
		F	8.38	1.79	15.31	
2390	A. Waller & Co., Henderson, Ky. Oneida Mixed Feed	G	10.	2.50		Wheat bran, corn cob.
		F	10.25	3.01	13.45	
2638	A. Waller & Co., Henderson, Ky., Stone Mills Mixed Feed	G	10.	2.		Wheat bran, corn cob.
		F	11.19	3.42	14.26	

* G and F stand respectively for Guaranteed and Found.

FEEDS CONTAINING ALFALFA.

Ground alfalfa is now found as a prominent constituent of certain feeds, the presence of which is sometimes indicated in the brand name. In some cases it is accompanied by ground cereal grains, such as cracked corn, crushed oats. In two brands nothing else was found to be present but molasses and salt. It can not justly be claimed that under a proper brand name ground alfalfa is an adulteration or that it is an inferior cattle food. It is a valuable feeding stuff, as is good clover hay. There is no justification, however, for classing alfalfa among grain feeds or for selling it at grain prices. It is shipped mostly from the west and the dealers expect to realize for it in the eastern states a retail price of \$25 per ton which is all out of proportion to its value as compared with the cost of grain. There is no good reason why New York farmers should buy Western hay at nearly grain prices. With corn and alfalfa of average composition a mixture of these containing 12 per ct. of fiber would contain only a little less than 900 pounds of alfalfa in each ton. When first-class clover or alfalfa hay is selling at \$12 per ton and corn at \$30 per ton, such a mixture, for instance, as the Maizefalfa Feed shown in the following table should be sold to the consumer at approximately \$21 per ton. With alfalfa hay at \$15 per ton and corn at \$30 the price should be less than \$24.

FEEDS CONTAINING ALFALFA.

Sample No.	Brand and name of manufacturer or jobber.	Protein.	Fat.	Fiber.	Ingredients found.	Species of weed seeds.
		<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>		
2652	The Alfalfa Meal & Milling Co. Cherokee, Okla. Maz-A-Flora Stock Feed	G* 14. F* 13.06	3.50 3.08	12.24	Cracked corn, alfalfa, wheat bran, salt.	
2645	The Corno Mills Co., East St. Louis, Mo. Corno Horse & Mule Feed	G 10. F 10.63	3.50 3.72	14.17	Cracked corn, oat hulls, alfalfa.	
2643	The Great Western Cereal Co. Chicago, Ill. Maizefalfa Feed	G 12. F 11.88	4. 2.79	11.77	Cracked corn, alfalfa.	
2565	The Otto Weiss Alfalfa Stock Food Co., Wichita, Kans. Otto Weiss Alfalfa Stock Food	G 12. F 12.	3.50 3.66	9.18	Alfalfa, corn, wheat bran, salt.	
2614	M. C. Peters Mill Company, Omaha, Neb. June Pasture Dairy Meal	G 13. F 12.86	2. 1.11	22.82	Alfalfa, molasses, salt.	
2642	M. C. Peters Mill Co., Omaha, Neb. Peters' Alfalfa-Fat Sugar Meal	G 11. F 12.04	2.50 .84	13.88	Molasses, alfalfa, salt.	

* G and F stand respectively for Guaranteed and Found.

PURE AND ADULTERATED GROUND FARM GRAINS MIXTURES.

Many of the feeding stuffs offered for sale in the New York market appear to consist of ground cereal grains such as corn, oats and barley, particularly the two former. In some instances the appearance coincides with the fact, but in more cases it is deceptive. The entrance of oat hulls into the feeding stuffs trade has made it possible to adulterate grain mixtures in a way that escapes ordinary observation. Often the term "chop" or "corn and oat" is a part of the brand name and carries with it the significance that has been attached to it in the past and thus adds to the deception. Oat hulls are very inferior in nutritive value and their introduction into a feed mixture in a way that deceives the purchaser cannot be said to be an honest practice. Where their presence is plainly stated no charges of dishonesty could hold against the manufacturer. In such cases the responsibility is upon the purchaser and if he chooses to pay grain prices for materials of an inferior character he has no one to blame but himself.

The fact that an apparent mixture of cereal farm grains is licensed and sold under a guarantee is presumptive evidence that the mixture is not manufactured wholly from the entire cereal grains, for the feeding stuffs law clearly specifies that the concentrated commercial feeding stuffs which must be licensed "shall not include hays and straws, the whole seeds nor the unmixed meals made directly from the entire grains of wheat, rye, barley, oats, corn, buckwheat and broom corn," ... "neither shall it include ... pure grains ground together." It is not to be supposed that millers will pay a license fee of \$25 when it is unnecessary.

As an aid to interpreting the chemical results as given herewith, there is stated below the average composition of corn meal and of oats as such, and also the composition that various mixtures of average corn meal and oats would have.

	Protein. <i>Per ct.</i>	Fat. <i>Per ct.</i>	Fiber. <i>Per ct.</i>
Oats (av. 30 analyses).....	11.8	5.	9.5
Corn meal (av. 77 analyses).....	9.2	3.8	1.9
Corn meal and oats, equal parts by weight.....	10.5	4.4	5.7
Corn meal 75%, oats 25%, by weight.....	9.8	4.1	3.8
Corn meal 25%, oats 75%, by weight.....	11.1	4.7	7.6

In characterizing the licensed feeds mentioned in the following table judgment has been based both on their composition and on what a careful mechanical and microscopical analysis has revealed.

Oat hulls, introduced into the feeds as such and not in connection with the oat kernel, are found to be present in a large proportion of the samples. These are not reported in any case where a reasonable doubt exists as to their presence. It is not asserted that a small proportion of oat hulls may not have been added to certain licensed mixtures that are marked as "corn and oats" and in these cases the manufacturer is given the benefit of the doubt.

FEED MIXTURES OF GROUND FARM GRAINS OR APPARENTLY SO.

Sample No.	Brand and name of manufacturer or jobber.	Protein.	Fat.	Fiber.	Ingredients found.	Species of weed seeds.
		<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>		
2523	Acme Milling Co., Olean, N. Y. Acme Feed	G* 8.75 F* 9.38	4.20 4.26	6.70	Corn, oats, oat hulls.	
2691	J & T. Adikes, Jamaica, N. Y. Ground Feed	G 8.75 F 8.44	3.09 3.09	5.13	Corn, oats, oat hulls, salt.	
2447	American Milling Co., Chicago, Ill. Sucrene Horse, Mule & Ox Feed	G 10. F 11.14	3.21 3.21	6.51	Corn, brewery and distillery by-products, salt, weed seeds.	Ragweed, wild buckwheat, flax, lamb's quarters, lady's thumb, green foxtail, charlock.
2378	The Beck Cereal Co., Detroit, Mich. Royal Corn & Oat Feed	G 8.31 F 8.13	5.10 4.66	5.50	Corn meal, oats, oat hulls.	
2653	S. W. Bowne & Co., Brooklyn, N. Y. Ground Feed	G 8. F 9.31	3.25 6.21	4.17	Corn meal, oats, barley, salt.	
2692	The Brooklyn Elevator & Milling Co., Brooklyn, N. Y. Ground Feed	G 9.50 F 9.69	3.05 4.33	4.63	Corn, oats, barley.	
2393	Buffalo Cereal Co., Buffalo, N. Y. Buf-Ce-Co Stock Feed	G 9. F 9.44	4.50 4.48	5.34	Cornmeal, corn bran, oats, oat hulls.	

2414	Buffalo Cereal Co., Buffalo, N. Y. Chop Feed	G F	7.50 8.13	3.50 4.55	6.09	Corn meal, oats, oat hulls.
2457	Clinton Milling & Grain Co., Plattsburg, N. Y. Derby Feed	G F	7. 7.37	3.56 2.95	9.48	Corn meal, oats, oat hulls.
2658	Crow & Williams, Ossining, N. Y. Crow & Williams Mixed Feed	G F	8. 10.44	3. 4.57	5.70	Corn meal, oats.
2485	Dock & Coal Co., Plattsburg, N. Y. Dandy Corn & Oat Bran Feed	G F	9.71 9.13	5.35 5.30	3.69	Corn, oats, salt.
2486	Dock & Coal Co., Plattsburg, N. Y. Tip Top Feed	G F	10. 11.13	4. 4.05	7.90	Corn, oats, oat hulls, salt.
2498	Elsworth & Co., Buffalo, N. Y. De-Fi Corn & Oat Feed	G F	8.30 8.	3. 2.43	13.63	Cracked corn, oat hulls (large amount), salt.
2415	Empire Mills, Olean, N. Y. Empire Feed	G F	7.63 8.94	2.97 4.46	3.53	Corn meal, cracked corn, a few oat hulls.
2678	Faramel Manufacturing Co., Buffalo, N. Y. Horse & Cattle Food	G F	8.85	3.88	4.94	Corn, oats, barley.
2550	General Flour & Feed Co., Buffalo, N. Y. Big "4" Chop	G F	8.31 10.44	3.38 2.93	8.75	Corn, oats, oat hulls.

* G and F stand respectively for Guaranteed and Found.

FEED MIXTURES OF GROUND GRAINS OR APPARENTLY SO.

Sample No.	Brand and name of manufacturer or jobber.		Protein.	Fat.	Fiber.	Ingredients found.	Species of weed seeds.
			<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>		
2548	Globe Elevator Co., Buffalo, N. Y. Corn Meal B	G* F*	7. 8.04	2. 3.33	5.16	Corn meal and some cob.	
2512	Globe Elevator Co., Buffalo, N. Y. No. 1 Corn and Oat Chop	G F	7. 8.88	3. 4.64	8.12	Corn, oats, oat hulls, salt.	
2470	D. H. Grandin, Jamestown, N. Y. Eagle Corn & Oat Feed	G F	7.50 8.25	2.50 4.48	8.38	Corn meal, corn bran, oats, oat hulls.	
2529	D. H. Grandin, Jamestown, N. Y. Eagle Corn & Oat Feed	G F	7.50 7.56	2.50 4.09	8.14	Corn, oats, oat hulls.	
2308	The Great Western Cereal Co., Chicago, Ill. Boss Chop Feed	G F	8. 8.75	3.50 3.69	6.21	Cracked corn, oats, oat hulls.	
2448	The Great Western Cereal Co., Chicago, Ill. Sterling Stock Feed	G F	11. 10.19	4. 2.60	8.02	Corn, oats, oat hulls, salt.	
2313	W. H. Haskell & Co., Toledo, O. Haskell's Stock Feed	G F	8. 9.56	4. 7.28	4.95	Corn, oats, barley, oat hulls.	
2509	Hoco Mills, Buffalo, N. Y. New England Stock Feed N-E-S-F	G F	9. 9.25	4. 4.36	9.23	Corn, oats, oat hulls, salt.	

2539	The H-O Company, Buffalo, N. Y. The H-O Co.'s Jim Dandy Feed	G F	7.50 6.18	2.75 2.44	23.13	Ground oats, mostly oat hulls.
2515	Hodgman Milling Co., Painted Post, N. Y. Corn & Oats Chop Feed	G F	9.69 9.06	3.88 3.65	3.21	Corn and oats.
2442	Husted Milling Co., Buffalo, N. Y. Husted Corn & Oats B	G F	9. 12.	4. 4.87	5.09	Wheat, corn, oats.
2433	Husted Milling Co., Buffalo, N. Y. Husted Horse Feed	G F	12. 12.94	4. 4.65	4.18	Cracked corn, corn meal, oats.
2405	Husted Milling Co., Buffalo, N. Y. Husted Monarch Chop	G F	7.50 8.06	3.50 3.95	9.21	Corn meal, oats, oat hulls, salt.
2571	Husted Milling Co., Buffalo, N. Y. Husted's Stock Feed	G F	8. 9.31	4. 5.77	7.47	Hominy, oat hulls, salt.
2484	Husted Milling Co., Buffalo, N. Y. Husted Yellow Provender	G F	7. 8.	4. 3.79	4.99	Corn, oats, oat hulls.
2569	Husted Milling Co., Buffalo, N. Y. Monarch Dairy Feed	G F	7. 9.31	3. 5.34	7.69	Corn, corn bran, oats, oat hulls, salt.
2429	Husted Milling Co., Buffalo, N. Y. Regal Chop	G F	7. 7.88	3. 4.16	9.05	Corn, oats, oat hulls.

* G and F stand respectively for Guaranteed and Found.

FEED MIXTURES OF GROUND FARM GRAINS OR APPARENTLY SO.

Sample No.	Brand and name of manufacturer or jobber.	Protein.	Fat.	Fiber.	Ingredients found.	Species of weed seeds.
		<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>		
2540	Hydraulic Milling Co., Buffalo, N. Y. Standard Chop Feed	G* 6.44 F* 9.81	2.53 5.97	5.31	Corn, oats, oat hulls, weed seeds.	Dock, wild buckwheat, green foxtail, yellow foxtail, flax, char- lock, lady's thumb.
2475	Husted Milling & Elevator Co., Buffalo, N. Y. Fine Ground Eclipse Feed	G 9 F 10.88	4 4.71	4.11	Corn, oats, salt.	
2306	Matthews & Harrison, Kingston, N. Y. Arcade Mixed Feed	G 10.42 F 9.44	5.86 4.36	8.13	Cracked corn, oats, salt.	
2526	Henry Neff, Salamanca, N. Y. Seneca Chop	G 6 F 8.02	2 3.19	6.87	Corn, oats, oat hulls.	
2604	Ogdensburg Roller Mills, Ogdensburg, N. Y. Oswegatchie Corn & Oat Chop Feed	G 8 F 8.81	4 2.69	5.72	Corn meal, oats, oat hulls, salt.	
2522	Olean Mills, Olean, N. Y. Chop Feed	G 7 F 8.69	2 4.04	3.44	Corn, oats, oat hulls.	
2491	Oneonta Milling Co., Oneonta, N. Y. Arrow Corn & Oat Feed	G 9 F 8.94	3.75 3.37	2.91	Corn meal, a few oats, and oat hulls.	
2343	Oneonta Milling Co., Oneonta, N. Y. Corn & Oat Provender	G 8.75 F 9.25	3.50 3.14	4.62	Corn meal, ground oats, and oat hulls.	

2585	The Quaker Oats Co., Chicago, Ill. Corn Feed Meal	G F	8.03 91.5	3. 6.45	1.42	Corn meal, corn bran, salt.
2386	The Quaker Oats Co., Chicago, Ill. C. O. & B. Feed Kln Dried	G F	10. 10.31	4. 3.95	9.58	Corn, oats, oat hulls, barley.
2408	The Quaker Oats Co., Chicago, Ill. Victor Feed	G	7.50 7.88	.3 3.62	10.70	Cracked corn, oats, oat hulls, salt.
2409	Ryan Bros., Jamesville, N. Y. Barley Meal	G F	13.38	3.53	7.86	Barley meal, a few oats.
2502	The Strong Lefterts Co., Springfield, Mass. Chester Stock Food	G* F*	7.50 8.88	3.50 4.29	7.29	Corn, oats, oat hulls.
2601	Geo. A. Taylor & Co., Ogdensburg, N. Y. Stock Feed	G F	8. 8.31	4. 3.79	6.53	Corn meal, oats, oat hulls.
2525	The Toledo Grain & Milling Co., Toledo, O. Feed Meal	G F	7.50 8.31	3.50 3.94	3.59	Corn meal, small amount corn cob, salt.
2524	The Toledo Grain & Milling Co., Toledo, O. M. D. Chop Feed	G F	7.306 8.19	3.875 3.56	4.63	Corn, oats, oat hulls, salt.
2586	Victor Mills, Springville, N. Y. Corn, Oats & Barley	G F	7. 10.	4. 5.33	3.91	Corn, oats.

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

MOLASSES FEEDS.

The so-called molasses feeds, which are now appearing in our market in great number are a somewhat new thing in the feeding stuffs trade. Unfortunately most of them cannot be commended as being compounded wholly out of good materials.

A careful study of several brands both this year and in 1908 reveals the presence in most of these feeds of a great variety of weed seeds, sometimes in generous proportions. Other inferior materials are present. In the following tables there is given what was found in the several brands examined. While oat hulls, oat glumes, weed seeds and straw are mentioned as being found in the mixtures, no attempt is made to indicate the source of these inferior ingredients, and it is difficult to give the proportions in which they are present. They may have in part been introduced as such, but in general this promiscuous combination of such materials shows the use of such wastes as mill screenings, mill sweepings, &c. Indeed some manufacturers do not deny the use of these mill wastes. The brewery by-products that are used in many brands often contain an appreciable quantity of weed seeds. If the materials combined

with molasses were always of a good grade such mixtures would take rank well in the cattle food trade, but farmers should be advised that the purchase of mill screenings at grain prices is not to their advantage. The writer is informed on good authority that the mill and elevator sweepings made in Buffalo are shipped to manufacturers at a uniform price of \$9 per ton at the place of mixing. After mixing these are sold to the consumer at prices approaching \$27 or \$28 per ton. Buckwheat hulls, a most worthless material, are now appearing in molasses feeds. The conservation and proper use of waste products is to be commended but they should be sold to consumers under names that indicate their nature and at prices that are consistent with their quality. It is well to add that the presence of molasses in the feeds under discussion does not add to these feeds any unusual or superlative properties nor does it compensate for the presence of inferior materials. Molasses gets its nutritive value almost wholly from the sugars which it contains and these sugars are worth no more per pound for feeding animals than is the starch of corn meal or of other cereal grains.

MOLASSES

Sample No.	Brand and name of manufacturer or jobber.		Protein.	Fat.	Fiber.
			<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
2316	American Milling Co., Chicago, Ill. Sucrene Dairy Feed	G*	16.50	3.50	8.30
		F*	17.16	4.24	
2563	American Milling Co., Chicago, Ill. Sucrene Dairy Feed	G	16.50	3.50	7.84
		F	17.	4.67	
2592	American Milling Co., Chicago, Ill. Sucrene Dairy Feed	G	16.50	3.50	8.22
		F	16.93	4.03	
2593	American Milling Co., Chicago, Ill. Sucrene Horse & Mule Feed	G	10.	3.	7.41
		F	11.99	3.92	
2584	Ames-Burns Co., Jamestown, N. Y. Consolidated Dairy Feed	G	16.	3.50	8.20
		F	14.97	4.27	
2387	Ames-Burnes Co., Jamestown, N. Y. Consolidated Dairy Feed	G	16.	3.	8.05
		F	16.04	3.84	
2530	Barber Consolidated Feed Co., Buffalo, N. Y. Economy Sugar Feed	G	15.	3.	14.46
		F	14.31	3.20	
2397	The J. W. Biles Co., Cincinnati, Ohio. Union Grains Biles Ready Ration	G	24.	7.	8.48
		F	22.25	7.47	
2619	Francis Duhne, Jr., Milwaukee, Wis. Molasses Milk Feed	G	15.	3.	14.48
		F	11.69	2.30	
2461	Empire Grain & Elevator Co., Binghamton, N. Y. Neverfail Dairy Feed	G	20.	5.	7.49
		F	22.19	5.65	
2679	Faramel Manufacturing Co., Buffalo, N. Y. Dairy Feed	G	—	—	9.66
		F	11.77	2.57	

* G and F stand respectively for Guaranteed and Found.

FEEDS.

Sample No.	Ingredients found.	Species of weed seeds.
2316	Molasses, brewers' grains, cotton seed meal, corn, oat hulls, oat glumes, salt, weed seeds.	Wild buckwheat, lady's thumb, yellow foxtail.
2563	Molasses, brewers' grains, cotton seed meal, oat hulls, oat glumes, particles of straw, salt, weed seeds.	Yellow foxtail, lady's thumb, green foxtail, giant ragweed, barnyard grass, wild buckwheat.
2592	Molasses, brewers' grains, cotton seed meal, corn, oat hulls, oat glumes, salt, weed seeds.	Flax, lady's thumb, wild buckwheat, lamb's quarters, barnyard grass, green foxtail.
2593	Molasses, linseed meal, corn, oat hulls, particles of straw, weed seeds.	Lady's thumb, yellow foxtail, wild buckwheat, lamb's quarters, flax.
2584	Molasses, brewers' grains, malt sprouts, cotton seed meal, oat hulls, salt, weed seeds.	Wild buckwheat, corn cockle, green foxtail, yellow foxtail, lady's thumb, charlock, catch-fly.
2387	Molasses, brewers' grains, malt sprouts, oat hulls, cottonseed meal, salt, weed seeds.	Brassica (Sp.), wild buckwheat, lady's thumb, yellow foxtail, green foxtail.
2530	Molasses, brewers' grains, malt sprouts, dried blood, cottonseed meal, oat hulls, buckwheat hulls, rice hulls, weed seeds.	Charlock, English plantain, bracted plantain, yellow foxtail, green foxtail, pigweed, wild buckwheat, red clover.
2397	Distillers' grains, brewers' grains, cotton-seed meal, wheat bran, molasses, malt sprouts, salt.	
2619	Molasses, brewers' grains, cottonseed meal, malt sprouts, buckwheat hulls, oat hulls, rice hulls, weed seeds.	Brassica (Sp.), yellow foxtail, green foxtail, lady's thumb.
2461	Wheat bran, brewers' grains, malt sprouts, corn, molasses, a few oat hulls, salt.	
2679	Molasses, malt sprouts, wheat bran, corn, barley, small amount of oats and oat hulls, weed seeds.	Green foxtail, flax, charlock, wild buckwheat, lamb's quarters.

Sample No.	Brand and name of manufacturer or jobber.		Protein.	Fat.	Fiber.
			<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
2354	F. W. Goeke & Co., St. Louis, Mo. Holstein Sugar Feed Dairy Feed	G F	15. 15.69	3. 3.52	14.39
2369	The Great Western Cereal Co., Chicago, Ill. Daisy Dairy Feed	G F	16. 14.13	3. 3.12	9.15
2605	The Great Western Cereal Co., Chicago, Ill. Daisy Dairy Feed	G F	14. 12.54	3. 2.30	
2688	The Great Western Cereal Co., Chicago, Ill. Daisy Horse Feed	G F	12. 12.69	3.50 1.65	10.95
2657	The Hunter Bros. Milling Co., St. Louis, Mo. Dairy Feed	G F	15. 15.50	3. 2.39	9.99
2305	International Sugar Feed Co., Minneapolis, Minn. International Sugared Feed for Milk Cows	G F	16.50 18.33	3.50 4.72	10.22
2456	Chas. A. Krause Milling Co., Milwaukee, Wis. Badger Stock Feed	G F	10. 12.95	4. 5.02	8.72
2503	Chas. A. Krause Milling Co., Milwaukee, Wis. Badger Dairy Feed	G F	18. 16.78	4.50 4.91	7.39
2583	Charles A. Krause Milling Co., Milwaukee, Wis. Badger Dairy Feed	G F	18. 13.08	4.50 4.10	10.15

* G and F stand respectively for Guaranteed and Found.

Sample No.	Ingredients found.	Species of weed seeds.
2354	Molasses, brewers' grains, malt sprouts, rice hulls, oats, oat hulls, buckwheat hulls, salt, weed seeds.	Brassica (Sp.), corn cockle, wild buckwheat, sorrel, lady's thumb, yellow foxtail, green foxtail.
2369	Brewers' grains, malt sprouts, cracked corn, cottonseed meal, molasses, oat hulls, salt.	
2605	Molasses, brewers' grains, cottonseed meal, malt sprouts, oat hulls, salt.	
2688	Molasses, brewers' grains, malt sprouts, oat hulls, salt.	
2657	Molasses, brewers' grains, malt sprouts, dried blood, oat hulls, rice hulls, buckwheat hulls, cottonseed meal, salt, weed seeds.	Brassica (Sp.), false flax, lamb's quarters, yellow foxtail, green foxtail, red clover, millet, lady's thumb.
2305	Molasses, cottonseed meal, barley, wheat bran, oat hulls, weed seeds.	Green foxtail, yellow foxtail, wild buckwheat, lady's thumb, pig-weed.
2456	Molasses, brewers' grains, corn, oat hulls, salt.	
2503	Molasses, brewers' grains, corn, cottonseed meal, buckwheat hulls (small amount), oat hulls, particles of straw, salt, malt sprouts, weed seeds.	Cow cockle, charlock, catchfly, yellow foxtail, green foxtail, lamb's quarters, lady's thumb, wild buckwheat, millet, flax, barnyard grass.
2583	Molasses, brewers' grains, malt sprouts, cottonseed meal, oat hulls, buckwheat hulls, particles of straw, a few weed seeds, mostly ground, salt.	Charlock, barnyard grass, lamb's quarters, green foxtail, lady's thumb.

MOLASSES

Sample No.	Brand and name of manufacturer or jobber.		Protein.	Fat.	Fiber.
			<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
2589	Chas. A. Krause Milling Co., Milwaukee, Wis. Badger Dairy Feed	G F	18. 16.08	4.50 4.15	7.96
2651	The Meader Atlas Co., New York, N. Y. Atlas Horse Feed	G F	10. 6.25	2. 1.08	5.24
2471	Milwaukee Grains & Feed Co., Milwaukee, Wis. Red Tag Cow Feed	G F	17. 11.60	3. 1.47	7.16
2435	Milwaukee Grains & Feed Co., Milwaukee, Wis. XXX Feed	G F	17.50 14.79	2. 2.72	10. 7.06
2516	Henry & Missert, Buffalo, N. Y. Holstein Milk Food	G F	15. 20.88	8. 8.60	
2441	E. P. Mueller, Milwaukee, Wis. Mueller's Molasses Grains	G F	— 8.09	— 1.08	14.06
2368	North West Mills Co., Winona, Minn. Sugarota Calf Meal	G F	18. 16.25	4.50 4.55	18.06
2469	North West Mills Co., Winona, Minn. Sugarota Dairy Feed	G F	18. 17.44	4.50 9.53	11.33
2500	North West Mills Co., Winona, Minn. Sugarota Horse Feed	G F	12. 14.94	3.50 4.58	18.34
2641	M. C. Peters Mill Co., Omaha, Neb. Peter's Arab Balanced Horse Feed	G F	11.50 9.56	3. 3.32	7.81
2317	The Sugarine Co., Chicago, Ill. Sugarine Dairy Feed	G F	16.50 16.95	3.50 5.01	8.12

* G and F stand respectively for Guaranteed and Found.

FEEDS.

Sample No.	Ingredients found.	Species of weed seeds.
2589	Molasses, brewers' grains, malt sprouts, cottonseed meal, corn, oat hulls, particles of straw, salt, weed seeds partly ground.	Lady's thumb, wild buckwheat, barnyard grass, green foxtail, giant ragweed.
2651	Molasses (large amount), brewers' grains, oat hulls, weed seeds.	Lady's thumb, pigweed, charlock, green foxtail, yellow foxtail.
2471	Molasses, brewers' grains, malt sprouts, corn bran, oats, a few weed seeds.	Wild buckwheat, charlock, green foxtail, yellow foxtail.
2435	Molasses, brewers' grains, malt sprouts, oat hulls, salt.	
2516	Molasses, barley, linseed meal, weed seeds present in great quantity.	Green foxtail, flax, yellow foxtail, lady's thumb, lamb's quarters, wild buckwheat, charlock, false flax.
2441	Molasses, barley, oat hulls, rice hulls, particles of straw, corn bran, a few weed seeds.	Brassica (Sp.), yellow foxtail, green foxtail, lady's thumb, wild buckwheat.
2368	Molasses, cottonseed meal, oat hulls, particles of straw, a few weed seeds.	Wild buckwheat, green foxtail, flax, pigweed.
2469	Molasses, linseed meal, cottonseed meal, oat hulls, particles of straw, weed seeds.	Charlock, brassica (Sp.), false flax, yellow foxtail, green foxtail, lady's thumb, wild buckwheat.
2500	Molasses, cottonseed meal, particles of straw, oat hulls, a few weed seeds.	Lady's thumb, lamb's quarters, wild buckwheat, flax.
2641	Molasses, cracked corn, oats, barley, alfalfa, salt.	
2317	Molasses, brewers' grains, cottonseed meal, corn, oat hulls, oat glumes, salt, weed seeds.	Flax, lady's thumb, wild buckwheat, green foxtail, charlock, lamb's quarters.

Sample No.	Brand and name of manufacturer or jobber.		Protein.	Fat.	Fiber.
			<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
2479	The Sugarine Co., Chicago, Ill. Sugarine Horse Feed	G* F*	13.50 12.04	3.50 3.65	7.85
2673	United States Sugar Feed Co., Milwaukee, Wis. Sugar Feed	G F	16. 15.13	3. 2.93	8.29
2462	Western Dairy Feed Co., Milwaukee, Wis. Red Cow Dairy Feed	G F	15. 15.31	3. 6.03	9.50
2323	Western Grain Products Co., Hammond, Ind. Hammond Dairy Feed	G F	17. 16.06	3. 4.27	9.06
2600	Western Grain Products Co., Hammond, Ind. Hammond Dairy Feed	G F	17. 15.87	3. 4.48	8.95

* G and F stand respectively for Guaranteed and Found.

Sample No.	Ingredients found.	Species of weed seeds.
2479	Molasses, brewers' grains, cottonseed meal, cracked corn, oats, oat hulls, oat glumes, particles of straw, salt, weed seeds.	Cow cockle, yellow foxtail, green foxtail, flax, charlock, wild buckwheat, lamb's quarters lady's thumb.
2673	Molasses, cottonseed meal, brewers' grains, malt sprouts, buckwheat hulls, corn, dried blood, weed seeds present in large quantity.	Charlock, brassica (Sp.), yellow foxtail, green foxtail, lady's thumb, sorrel, dock, red clover, bracted plantain, lamb's quarters.
2462	Molasses, brewers' grains, malt sprouts, cottonseed meal, corn, rice tonseed hulls, oat hulls, weed seeds.	Cow cockle, corn cockle, wild buckwheat, flax, lady's thumb, brassica (Sp.), lamb's quarters, red clover, sorrel, crab grass, yellow foxtail, green foxtail.
2323	Molasses, malt sprouts, oats, oat hulls, distiller's grains, barley, salt, cotmeal, weed seeds.	Brassica (Sp.), false flax, wild buckwheat, lady's thumb, green foxtail, yellow foxtail, flax.
2600	Molasses, cottonseed meal, corn, barley, oats, oat hulls, salt, weed seeds.	Lady's thumb, yellow foxtail, brassica (Sp.), barnyard grass, false flax, lamb's quarters.

GLUTEN FEEDS.

The various brands of gluten feeds have been examined for acidity and coloring matter. Those found to have considerable acidity and to be artificially colored are as follows: Buffalo Gluten Feed, Crescent Gluten Feed, Diamond Gluten Feed, Globe Gluten Feed, International Gluten Feed, Queen Gluten Feed and Tiger Gluten Feed.

It is claimed by the manufacturers that the acidity is not due to the presence of harmful mineral acids but is caused by adding to the feeds the solid matter of the steep water which contains the soluble compounds leached from the corn kernel. The exact cause of the acidity of gluten feeds does not appear to be well understood, and is now the subject of an inquiry at this institution. The results of our investigations will be reported later.

The excuse offered for artificially coloring the feeds is that the steep water residue makes dark colored feeds that otherwise would be yellowish, and the coloring is done because farmers demand yellow gluten feeds, and are prejudiced against those of any other color.

UNCLASSIFIED COMPOUNDED FEEDS.

In the compounded feeds, which are as a rule chiefly made of by-products, a great variety of ingredients are found,—some good, some bad. Such materials as cotton seed meal, gluten feed, distillers' grains and wheat bran are standard feeds whether used alone or in a mixture, but such substances as ground corn cobs, buckwheat hulls, rice hulls and peanut hulls are of little value and when the farmer buys these at grain prices he is defrauded.

Of the 41 brands mentioned in the table beginning on the next page at least 24 contain one inferior ingredient, the presence of which is not disclosed by ordinary observation.

UNCLASSIFIED COMPOUNDED FEEDS.

Sample No.	Brand and name of manufacturer or jobber.	Protein.	Fat.	Fiber.	Ingredients found.	Species of weed seeds.
		<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>		
2353	The American Cereal Co., Chicago, Ill. Quaker Dairy Feed	G* 12. F* 14.40	3. 3.86	13.31	Cottonseed meal, a large amount of oat hulls, ground oats, salt.	
2366	Ames-Burns Co., Jamestown, N. Y. A. B. C. Cattle Feed	G 24. F 21.31	8. 9.17		Wheat, linseed meal, cottonseed meal, salt.	
2682	Andrews, Son & Co., Penn Yan, N. Y. Corn, Oats & Bran	G F 11.81	4.41	4.09	Corn, oats, wheat bran.	
2681	The Birkett Mills, Penn Yan, N. Y. Buckwheat Bran & Corn	G 5.94 F 5.87	2.02 1.62	27.69	Buckwheat hulls, corn.	
2544	Buffalo Cereal Co., Buffalo, N. Y. Dairy Feed	G 14. F 15.19	4. 3.97	7.79	Gluten feed, oats, oat hulls.	
2330	Buffalo Cereal Co., Buffalo, N. Y. Horse Feed	G 12. F 11.50	4.50 4.	7.26	Corn, oats, oat hulls, wheat bran.	
2587	Empire Manufacturing Co., Franklinville, N. Y. Empire Stock Feed	G 18. F 19.13	4. 6.34	7.20	Malt sprouts, wheat bran, corn, salt.	

* G and F stand respectively for Guaranteed and Found.

UNCLASSIFIED COMPOUNDED FEEDS.

Sample No.	Brand and name of manufacturer or jobber.	Protein.		Fat.		Fiber.	Ingredients found.	Species of weed seeds.
		<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>			
2303	Everett & Treadwell Co., Kingston, N. Y. C. O & W. Feed	G*	11.50	3.50	<i>Per ct.</i>		Corn meal, oats, wheat, wheat bran.	
		F*	12.19	3.86		3.44		
2676	General Flour & Feed Co., Buffalo, N. Y. Honest Cow Feed	G	24.	6.	6.75	6.04	Wheat bran, cottonseed meal, gluten feed, brewers' grains, linseed meal, salt.	
		F	23.					
2591	Gilbert & Nichols Co., Fulton, N. Y. Fulton Dairy Feed	G	26.	6.	7.07	7.98	Brewers' grains, distillers' grains, cottonseed meal, malt sprouts, corn meal, buckwheat hulls, salt.	
		F	26.50					
2801	Globe Elevator Co., Buffalo, N. Y. Globe Mill Feed	G	10.	2.	4.67	13.94	Wheat bran, malt sprouts, peanut hulls.	
		F	15.81					
2802	Globe Elevator Co., Buffalo, N. Y. International Gluten Feed	G	23.	2.	7.76	8.85	Gluten feed, cottonseed meal, peanut hulls.	
		F	21.81					
2803	Globe Elevator Co., Buffalo, N. Y. International Oil Meal	G	30.	6.	8.03	7.23	Linseed meal, screenings, peanut hulls.	
		F	31.81					
2701	Globe Elevator Co., Buffalo, N. Y. Royal Gluten Feed	G	20.	2.	2.53	16.68	Gluten feed, cottonseed meal, peanut hulls.	
		F	19.69					

2521	Globe Elevator Co., Buffalo, N. Y. Special Corn & Oat Feed	G F	5. 9.75	2. 3.60	14.84	Corn, oat hulls, rice hulls corn cob, weed seeds.	Flax, yellow foxtail, green foxtail, lady's thumb, charlock, barnyard grass, lamb's quarters.
2538	J. Gorman, Buffalo, N. Y. Boat Sweepings	G F	5. 13.50	2. 3.17	4.01	Wheat bran, middlings, corn starch.	
2532	Henry & Missert, Buffalo, N. Y. B. S. Stock Feed	G F	11. 14.37	2. 3.36	5.40	Wheat bran, middlings, small amount of bar- ley and oat hulls.	
2332	The H-O Co's. Buffalo, N. Y. The H-O's Algrane Horse Feed	G F	12. 12.25	4.50 4.46	8.	Corn meal, oats, oat hulls, salt.	
2493	The H-O Company, Buffalo, N. Y. The H-O Co.'s Algrane Milk Feed	G F	14. 19.25	4. 4.75	8.91	Gluten feed, cracked corn, cottonseed meal, oat hulls, salt.	
2480	B. F. Hull & Co., Gouverneur, N. Y. Corn, Oats & Bran	G F	— 11.38	— 4.35	4.15	Corn, oats and bran.	
2417	Husted Milling Co., Buffalo, N. Y. Husted Dairy Feed	G F	18. 17.75	3. 4.78	7.62	Gluten feed, cottonseed meal, corn meal, oats, oat hulls.	
2667	International Sugar Feed Co., Minneapolis, Minn. International Sugared Feed for Horses	G F	12.50 12.90	5. 4.37	6.66	Brewers' grains, oats, oat hulls.	

* G and F stand respectively for Guaranteed and Found.

UNCLASSIFIED COMPOUNDED FEEDS.

Sample No.	Brand and name of manufacturer or jobber.	Protein.	Fat.	Fiber.	Ingredients found.	Species of weed seeds.
2357	H. Jennings, Boston, Mass. H. J. Flax Feed	<i>Per ct.</i> 16.	<i>Per ct.</i> 14.	<i>Per ct.</i>	Ground flax seed, ground oat hulls, fenugreek, ground weed seeds.	
		F* 15.31	12.50	8.99		
2623	The Kakiat Co., Suffern, N. Y. Kakiat Horse Feed	G 12.50	4.25	5.88	Wheat bran, corn, oats, oat hulls.	
		F 14.63	5.79			
2505	C. R. Lull, Milwaukee, Wis. Ground Flax Flakes	G 15.	15.	9.06	Flax seed, fenugreek, ground weed seeds, a few oat hulls.	
		F 16.19	13.21			
2346	Morrisey J. Mudge, Afton, N. Y. Meal & Bran or Mixed Feed	G —	—	4.59	Corn meal, wheat bran.	
		F 11.38	4.49			
2598	New Occidental Milling Co., Minneapolis, Minn. Aloras	G 16.	5.	6.06	Wheat bran, corn meal, linseed meal.	
		F 15.06	6.06			
2377	F. C. Ogden, Utica, N. Y. Ogden's Special Horse Feed	G 11.	4.	4.83	Hominy, corn bran, oats	
		F 10.75	6.14			
2603	Ogdensburg Roller Mills, Ogdensburg, N. Y. St. Lawrence Dairy Feed	G 10.	4.	6.09	Corn, wheat bran, oats, oat hulls, salt.	
		F 9.25	3.50			
2624	John Orr & Co., Mountainville, N. Y. Horse Feed	G 13.20	3.90	3.40	Wheat bran, corn meal, oats.	
		F 11.44	3.99			

2662	Wm. Orr & Sons, Orr's Mills, N. Y. Orr's Mixed Feed	G F	7.50 11.63	2. 3.83	3.82	Wheat bran, middlings, corn meal, oats, oat hulls.
2513	The Quaker Oats Co., Chicago, Ill. American Poultry Feed	G F	12. 12.50	3.50 5.41	3.51	Corn meal, hominy, bran.
2432	The Quaker Oats Co., Chicago, Ill. Buckeye Mixed Feed	G F	13. 15.75	4. 4.73	7.76	Wheat bran, corn.
2356	The Quaker Oats Co., Chicago, Ill. Schumacher (FS) Stock Feed	G F	10. 10.38	4. 3.15	8.28	Wheat bran, corn pro- ducts, corn bran, bar- ley, oats, oat hulls, salt.
2348	M. G. Rankin & Co., Milwaukee, Wis. Durham Flax Meal	G F	17. 17.69	14. 13.98	7.78	Ground flaxseed, a few oat hulls, ground weed seeds.
2359	Chas. D. Shippey, New Berlin, N. Y. Hominy & Bran, Mixed Feed	G F	12.50	5.63	5.94	Corn, wheat bran.
2562	Allen V. Smith, Marcellus Falls, N. Y. Allen V. Smith's Barley Feed	G F	13. 14.94	3. 4.35	7.50	Ground oats & barley, middlings.
2474	The Toledo Elevator Co., Toledo, O. Star Cotton Feed	G F	10. 11.81	6.50 6.61	8.91	Corn, corn cob, cotton- seed meal, salt.
2307	The Toledo Elevator Co., Toledo, O. Star Feed	G F	7. 8.56	6.50 6.41	9.47	Hominy, corn cob, salt.
2318	Van Buren & Conkling, Hobart, N. Y. Horse Feed No. 2	G F	11. 11.31	5. 4.27	4.98	Corn, oats, oat hulls, wheat bran.

Charlock, lamb's quar-
ters, green foxtail.

* G and F stand respectively for Guaranteed and Found.

COMPOSITION AND DIGESTIBILITY OF SOME MATERIALS USED IN ADULTERATING FEEDING STUFFS.

In order that the readers of this bulletin may fully appreciate the nature and value of the adulterants now found in feeding stuffs sold in this state, the following table has been prepared:

COMPOSITION AND DIGESTIBILITY OF CERTAIN INFERIOR MATERIALS NOW LARGELY USED TO ADULTERATE FEEDING STUFFS.

Material.	Composition.						Digesti- bility Organic matter.
	Water.	Ash.	Protein.	Fiber.	Nitro- gen free extract	Fat.	
	<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>	<i>Per ct.</i>
Buckwheat hulls.....	9.6	2.2	4.9	42.9	39.3	1.1	
Corn cobs.....	8.	1.3	2.7	31.3	56.2	0.5	43.3
Oat feed (mostly hulls).....	7.	5.5	5.1	26.4	54.4	1.6	31.1
Peanut feed (largely husks).....	10.	2.6	8.9	56.4	16.6	5.5	25.6
Peanut husks.....	13.	1.2	5.	66.	13.1	1.7	
Peanut shells.....	8.5	2.5	7.1	60.7	18.7	2.5	14.7
Rice hulls.....	10.5	17.4	4.6	38.9	27.9	.7	

A study of the above table reveals certain characteristics of the materials therein mentioned; viz., a low percentage of protein, a very high percentage of fiber, conditions always attended by a low digestibility. In coffee husks only about one-tenth of the organic matter was found to be digested and in the peanut shells only about one-seventh. More is digested from corn cobs and oat hulls, but the percentage is low. This is in strong contrast to linseed meal, gluten feed, and corn meal. in which from 80 to 90 per ct. of the organic matter is digested. When one remembers that the undigested portion of a feed is waste material the above figures constitute a serious indictment of certain mixtures now sold in this and other states.

CHANGES IN THE FEEDING STUFFS LAW.

Acting on the initiative and advice of the State Department of Agriculture, the Legislature of 1909 passed an act to amend the law in relation to concentrated commercial feeding stuffs. The text of the act is appended hereto.

The principal changes in the law as affected by this act are as follows:

(1) Corn and cob meal, dried blood, alfalfa feeds and meals and compounded feeds are specifically added to those feeds that are included in the term "concentrated commercial feeding stuffs" and "ground or cracked bone not mixed with any other substances" and "poultry foods consisting of whole and cracked grains and grit mixed together when all the ingredients may be identified by the naked eye" are excluded from such definition.

(2) The guarantee must include the maximum percentage of crude fiber if it exceeds five per ct., the names of the ingredients in a compounded feed, and if the feed is colored the name of the material used for such purpose.

(3) The Commissioner of Agriculture is forbidden to issue a license for the sale of any feed under a name which is misleading or deceptive, and a license may be cancelled when it is shown that it was issued upon a false or misleading statement.

The changes in the requirements of the guarantee and the provision against misbranding were rendered necessary by the extensive use in compounding feeds of almost worthless materials and the sale of these mixtures under misleading names. The facts presented in this bulletin abundantly justify the new legislation, which it is hoped will more fully defend the farmer against fraudulent goods.

LAWS OF NEW YORK.—CHAP. 317.

AN ACT to amend the agricultural law, in relation to concentrated commercial feeding stuffs.

Became a law May 8, 1909, with the approval of the Governor. Passed, three-fifths being present.

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

Section 1. Sections one hundred and sixty, one hundred and sixty-one, one hundred and sixty-two, one hundred and sixty-three and one hundred and sixty-five of chapter nine of the laws of nineteen hundred and nine, entitled "An act in relation to agriculture, constituting chapter one of the consolidated laws," are hereby amended to read, respectively, as follows:

§ 160. Term "concentrated commercial feeding stuffs" defined. —The term "concentrated commercial feeding stuffs" as used in this article, shall include linseed meals, cotton seed meals, pea meals, bean meals, peanut meals, cocoanut meals, gluten meals, gluten feeds, maize feeds, starch feeds, sugar feeds, dried distiller's grains, dried brewer's grains, malt sprouts, hominy feeds, cerealine feeds, rice meals, dried beet refuse, oat feeds, corn and oat chops, corn and cob meal, ground beef or fish scraps, meat meals, meat and bone meals mixed, dried blood, mixed feeds, clover meals, alfalfa feeds and meals, compounded feeds, condimental stock and poultry foods, proprietary or trade-marked stock and poultry foods, and all other materials of similar nature; but shall not include hays and straws, the whole seeds nor the unmixed meals made directly from the entire grains of wheat, rye, barley, oats, corn, buckwheat and broom corn. Neither shall it include wheat, rye and buckwheat brans or middlings, not mixed with other substances, but sold separately, as distinct articles of commerce, nor pure grains ground together, nor wheat bran and middlings mixed together not mixed with any other substances and known in the trade as "mixed feed," nor ground or cracked bone not mixed with any other substance, nor shall it include poultry foods consisting of whole or whole and cracked grains and grit mixed together when all the ingredients may be identified by the naked eye.

§ 161. Statements to be attached to packages; contents; analysis.

—No manufacturer, firm, association, corporation or person shall sell, offer or expose for sale or for distribution in this state, any concentrated commercial feeding stuffs used for feeding live stock unless such concentrated commercial feeding stuffs shall be accompanied by or shall have affixed to each and every package in a conspicuous place on the outside thereof, a plainly printed statement which shall certify as follows:

1. The number of pounds in the package.
2. The name, brand or trade mark.
3. The name and principal address of the manufacturer or person responsible for the placing of the commodity upon the market.
4. Its composition expressed in the following terms:
 - a. The minimum per centum of crude protein.
 - b. The minimum per centum of crude fat.
 - c. The maximum per centum of crude fibre, provided that the per centum of crude fibre may be omitted if it does not exceed five per centum.
 - d. If a compounded feed, the name of each ingredient contained therein.
 - e. If artificially colored, the name of the material used for such purpose.

If any such concentrated commercial feeding stuffs be sold, offered or exposed for sale in bulk, such printed statement shall accompany every car or lot. Any such feeding stuffs purchased in bulk and later sacked or bagged for purposes of sale shall have tags attached giving the information as provided herein before being sold, offered or exposed for sale. Whenever any feeding *stuffs is sold at retail in bulk or in packages belonging to the purchaser, the seller upon request of the purchaser shall furnish the said purchaser the information contained in the certified statement provided herein. That portion of the statement required by this section relating to the quality of feeding stuffs shall be known and recognized as the guaranteed analysis.

*So in original.

§ 162. **Statements to be filed with commissioner of agriculture; to be accompanied by sample and affidavit when requested.**—Before any manufacturer, firm, association, corporation or person shall sell, offer or expose for sale in this state any concentrated commercial feeding stuffs, he or they shall, for each and every brand of concentrated commercial feeding stuff, file annually prior to January first of the calendar year in which such commodity is to be sold, offered or exposed for sale with the commissioner of agriculture a certified copy of the statement specified in section one hundred and sixty-one, said certified copy to be accompanied, when the said commissioner shall so request, by a sealed glass jar or bottle containing at least one pound of the feeding stuff to be sold or offered for sale, and the company or person furnishing said sample shall thereupon make affidavit that said sample corresponds to the feeding stuff which it represents, in the per centum of crude protein, crude fat, crude fibre, name of each ingredient contained therein, if a compounded feed, and the name of any artificial coloring material used.

§ 163. **License fee.**—Every manufacturer, importer, agent or seller of any concentrated commercial feeding stuffs, shall pay annually prior to January first of the calendar year in which such commodity is to be sold, offered or exposed for sale to the treasurer of the state of New York a license fee of twenty-five dollars for each and every brand to be sold or offered or exposed for sale. Whenever a manufacturer, importer, agent or seller of any concentrated commercial feeding stuffs desires at any time to sell such material and has not complied with the requirements of the statute he shall before selling, offering or exposing the same for sale, comply with the requirements as herein provided. Said treasurer shall in each case at once certify to the commissioner of agriculture the payment of such license fee. Each manufacturer, importer or person who has complied with the provisions of this article shall be entitled to receive a certificate from the commissioner of agriculture setting forth said facts. Such certificate shall expire on the thirty-first day of December of the calendar year in which it was issued, but no such certificate shall be issued for the sale of a brand of concentrated commercial feeding stuff under a brand or trade name which is

misleading or deceptive or which tends to mislead or deceive as to the constituents or materials of which it is composed. Any such certificate so issued may be cancelled by the commissioner of agriculture when it is shown that any statement upon which it was issued is false or misleading. Whenever the manufacturer, importer or shipper of concentrated commercial feeding stuffs shall have filed the statement required by section one hundred and sixty-one of this article and paid the license fee as prescribed in this section, no agent or seller of such manufacturer, importer or shipper shall be required to file such statement or pay such fee.

§ 165. **Sale of adulterated meal or ground grains.**—No person shall adulterate any kind of meal or ground grain or other cattle food with milling or manufacturing offals, or any substance whatever, for the purpose of sale, unless the true composition, mixture or adulteration thereof is plainly marked or indicated upon the package containing the same or in which it is offered for sale; no person shall sell or offer for sale any meal or ground grain or other cattle food which has been so adulterated unless the true composition, mixture or adulteration is plainly marked or indicated upon the package containing the same, or in which it is offered for sale.

§ 2. This act shall take effect January first, nineteen hundred and ten.