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New Hampshire Agricultural Experiment Station

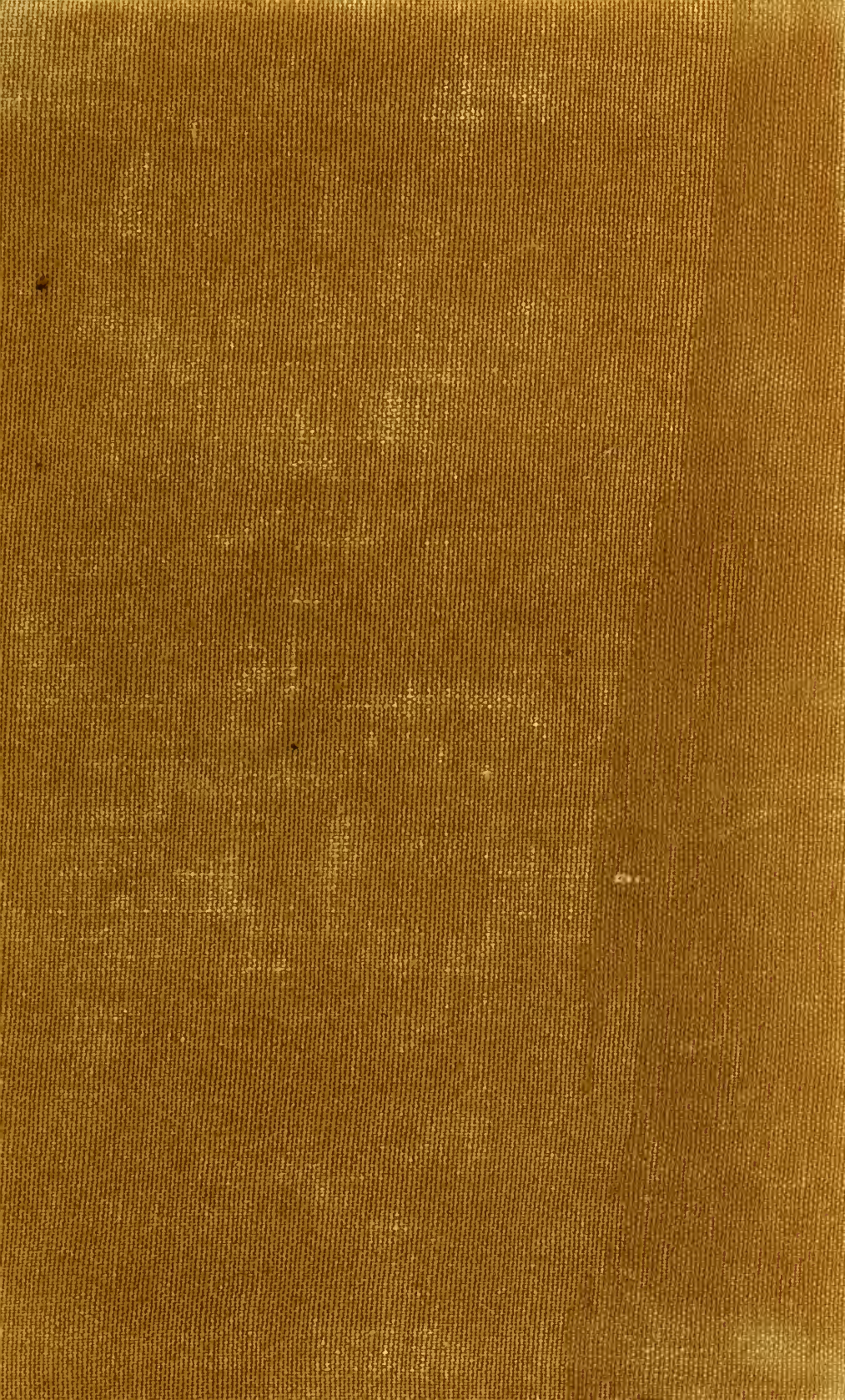
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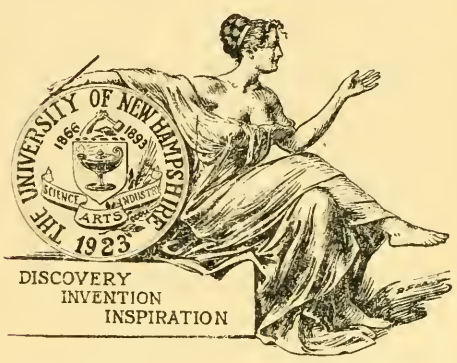


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NEW HAMPSHIRE
AGRICULTURAL EXPERIMENT STATION
DEPARTMENT OF CHEMISTRY

Analysis of Feeding Stuffs

MADE FOR THE
STATE DEPARTMENT OF AGRICULTURE



BY B. E. CURRY AND T. O. SMITH

NEW HAMPSHIRE COLLEGE
OF
AGRICULTURE AND THE MECHANIC ARTS
DURHAM, N. H.

Feeding Stuffs Inspection for 1918.

The samples of the various brands of feeding-stuffs for the 1918 inspection were collected by representatives of Mr. Andrew L. Felker, Commissioner of Agriculture. Two hundred and eighty-eight samples were received and analyzed at the Experiment Station. The analytical data in this report have been prepared with the assistance of E. N. Sanders, P. B. Place, J. Bloomfield, C. L. Lane and W. L. Owen.

A list of the ingredients of the compounded feed-stuffs, as certified by the manufacturers, will be found on pages 16 to 20, and some suggestions concerning the other classes of feeds on pages 4 to 6.

Copies of this report will be sent free upon request to the Commissioner of Agriculture, Concord, N. H., or to the Director of the New Hampshire Experiment Station, Durham, N. H.

COTTONSEED MEALS.

There has been a decided drop in the quality of cottonseed meals. Lots containing 41% protein have entirely disappeared from the market. The 38% grades have almost disappeared. Much of the meal which comes into New Hampshire is "off" color and flavor. Nearly all lots contain large quantities of ground hulls.

COTTONSEED FEEDS.

These products are coming upon the market in various forms. Many carry about 20% protein and consist of a mixture of low-grade cottonseed meal and ground cottonseed hulls. One-fourth to one-third of the total weight may be cottonseed hulls. Cottonseed feed corresponding to the above description should not cost more than one-half as much as a good grade of cottonseed meal. The cottonseed meal in these products usually is "off" color and flavor.

WHEAT BY-PRODUCTS.

The wheat feeds are being milled more closely than heretofore and nearly all of the starchy portion of the wheat berry is removed. This is in keeping with the government milling requirements.

CORN PRODUCTS.

The corn products are of good quality.

OAT PRODUCTS.

The feed-stuffs which contain oat products should be scrutinized with much care. Some of these are very good in quality. Others are poor and carry large quantities of oat hulls. Oat hulls are now sold at wholesale at about \$20 per ton. When they are mixed with other products and sold as a compounded feed, the consumer pays \$40 to \$50 per ton for them.

The extended use of oat products for human consumption has created a tremendous output of oat by-products, especially oat hulls. These are being ground and sold both as such and in mixtures. They move more readily when mixed with more valuable products and consequently they are being found in larger quantities in the compounded feeds.

At present there is not a very wide difference between the selling price of some stock feeds which contain large amounts of oat hulls and some thoroughly good products.

DISTILLERS' GRAINS.

Distillers' grains are of good quality but scarce.

FLAXSEED MEAL.

The flaxseed meals have been uniformly good.

GLUTEN FEED.

Gluten feeds and meals have maintained their quality.

PEANUT FEEDS.

Peanut feeds are coming into the state; some of these are of excellent quality, some are not.

BARLEY FEEDS.

Barley feeds are coming into our markets. These vary widely in composition. Some lots are ground hulls and screenings; other lots are much better. The feeds which contain barley products should be examined before they are purchased. They may or may not be desirable when the price and quality are considered.

HIGH-GRADE COMPOUNDED FEEDS.

The producers of the high-grade and high-protein dairy feeds are maintaining the quality of their products.

MOLASSES FEEDS.

The price and composition should largely determine whether they should be used.

POULTRY FEEDS.

Poultry feeds are very high priced. Usually they sell for about the price of the most expensive ingredient they contain even when that is present in very small quantities. The poultryman should examine what he buys and the price of the constituents of which it is composed.

THE GUARANTEE.

All feed-stuffs sold in New Hampshire should be guaranteed, both in respect to their chemical composition and the ingredients of which they are composed.

CRUDE FIBER.

The higher grades of compounded products contain relatively small amounts of crude fiber. The statement covering the ingredients of any mixture will show from what principal sources the fiber comes. The crude fiber appears in the guaranteed amount of carbohydrates. When the amount of crude fiber is deducted from the amount of carbohydrates, more accurate information is had about the amount of good carbohydrates the product contains. The crude fiber has little value because it has a very low digestibility.

The consumers of this state have access to information before buying. It is of little value to the consumer to know that he has bought badly after the article has been bought and paid for. He should be especially discriminating while prices are high. Freight rates are the same for both poor and good products. Also commissions and selling charges are as much, if not more, on the poor products, because they are more difficult to sell. The consumer should keep in mind the fact that oat and barley hulls, corn-cob meal and cottonseed hulls are no more valuable in a mixture than when they are unmixed.

Name of Sample.	Manufactured by.	Address.	Protein.		Fat.		Carbo-hydrates.		Ash.		Moisture.		Crude Fibre.	
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.
WHEAT FEEDS.														
Trojan Bran.....	The Allen & Wheeler Co.....	Troy, Ohio.....	14.98	14.00	4.00	4.00	63.22	52.00	6.50	.....	11.3	.....	9.5	.....
Trojan Mixed Feed.....	The Allen & Wheeler Co.....	Troy, Ohio.....	13.49	14.50	4.55	4.00	84.29	52.00	5.30	.....	10.8	.....	8.0	.....
William Tell Bran.....	Ansted & Burk Co.....	Springfield, Ohio.....	15.06	13.00	3.45	4.00	86.26	51.00	6.50	.....	10.3	.....	12.0	.....
William Tell Mixed Feed.....	Ansted & Burk Co.....	Springfield, Ohio.....	14.71	14.00	4.10	4.50	85.29	56.00	6.30	.....	9.6	.....	8.5	.....
William Tell Wheat Middlings.....	Ansted & Burk Co.....	Springfield, Ohio.....	15.81	15.00	4.12	5.00	84.77	58.00	3.90	.....	11.1	.....	5.5	.....
Atlas Wheat Flour Middlings.....	Atlas Flour Mills.....	Milwaukee, Wis.....	17.08	14.50	5.52	3.00	83.00	54.00	4.30	.....	10.1	.....	3.0	.....
Atkinson's Wheat Bran.....	Made in Minneapolis.....	.....	16.73	13.00	4.79	4.00	81.78	.....	4.00	.....	9.2	.....	13.0	.....
Bailey's Fancy Mixed Feed.....	E. W. Bailey & Co.....	Montpelier, Vt.....	15.11	13.00	3.75	3.75	83.58	41.00	5.90	.....	11.2	.....	10.0	.....
(Nye) Mixed Feed.....	E. W. Bailey & Co.....	Montpelier, Vt.....	16.81	15.00	3.75	4.00	84.34	.....	5.00	.....	11.6	.....	.....	.....
Pennant Pure Winter Bran.....	E. W. Bailey & Co.....	Montpelier, Vt.....	15.15	14.50	3.81	4.00	84.34	.....	7.50	.....	9.2	.....	10.0	.....
Pennant Pure Winter Bran.....	E. W. Bailey & Co.....	Montpelier, Vt.....	15.24	14.50	4.04	4.00	83.82	.....	7.00	.....	9.9	.....	10.0	.....
Pennant Winter Bran.....	E. W. Bailey & Co.....	Montpelier, Vt.....	15.06	14.50	4.02	4.00	83.22	.....	6.80	.....	10.9	.....	10.0	.....
White Red Dog.....	Baldwin Flour Mills.....	Minneapolis, Minn.....	14.63	16.00	5.04	5.00	88.63	.....	2.70	.....	9.0	.....	4.0	.....
White Satin Mixed Feed.....	Barber Milling Co.....	Minneapolis, Minn.....	16.20	15.00	5.63	4.50	82.17	60.00	5.40	.....	10.6	.....	9.0	.....
Winona Bran.....	Bay State Milling Co.....	Winona, Minn.....	15.68	15.00	5.00	4.50	83.22	53.00	6.00	.....	10.1	.....	12.0	.....
Big Diamond Wheat Bran.....	Big Diamond Mills Co.....	Minneapolis, Minn.....	15.11	14.00	5.00	4.00	84.79	.....	6.40	.....	8.7	.....	11.0	.....
Big Rush Bran.....	Campbell Flour Mills Co., Ltd.....	Toronto & Peterboro, Canada.....	15.68	.....	4.49	.....	66.03	.....	5.40	.....	8.4	.....	.....	.....
Bull Rush Bran.....	Campbell Flour Mills Co., Ltd.....	Toronto & Peterboro, Canada.....	15.76	.....	4.57	.....	65.17	.....	5.90	.....	8.6	.....	.....	.....
Wheat Standard Middlings.....	Cataract City Milling Co.....	Niagara Falls, N. Y.....	17.43	15.00	5.82	4.50	81.95	.....	5.20	.....	9.6	.....	10.0	.....
Madella Roller Mills Wheat Standard Middlings.....	C. S. Christensen Co.....	Madella, Minn.....	15.59	14.75	5.27	4.05	84.14	.....	5.60	.....	9.4	.....	9.25	.....
Wirthmore Middlings.....	Chas. M. Cox Co.....	Boston, Mass.....	15.59	14.50	5.01	4.00	82.90	50.00	5.70	.....	10.8	.....	7.0	.....
Wirthmore Wheat Feed.....	Chas. M. Cox Co.....	Boston, Mass.....	15.68	15.00	4.55	4.50	85.97	50.00	4.70	.....	9.1	.....	7.0	.....
Wirthmore Wheat Feed.....	Chas. M. Cox Co.....	Boston, Mass.....	15.46	15.00	4.49	4.50	84.43	50.00	4.50	.....	11.2	.....	7.0	.....
Wheat Bran.....	Crescent Milling Co.....	Fairfax, Minn.....	14.45	14.20	4.68	3.80	85.17	.....	5.7	.....	10.0	.....	12.0	.....
Commander Wheat Flour Middlings.....	Commander Milling Co.....	Minneapolis, Minn.....	17.34	16.00	5.97	4.50	82.79	.....	4.5	.....	9.4	.....	7.0	.....
Tiger Middlings.....	Detroit Milling Co.....	Detroit, Mich.....	16.46	15.50	5.51	5.00	84.43	.....	4.1	.....	9.5	.....	8.0	.....
Boston Mixed Feed.....	Duluth Superior Milling Co.....	Duluth, Minn.....	15.85	12.00	5.17	4.00	83.88	.....	5.1	.....	11.0	.....	9.0	.....
Wheat Flour Middlings.....	Duluth Superior Milling Co.....	Duluth, Minn.....	17.30	16.80	5.60	5.00	83.20	.....	4.6	.....	9.2	.....	8.0	.....
Eldred Pure Bran.....	Eldred Mill Co.....	Duluth, Minn.....	15.76	14.21	3.69	3.68	85.55	54.17	5.8	.....	9.2	.....	10.88	.....
Eldred Pure Middlings.....	Eldred Mill Co.....	Jackson, Mich.....	17.43	17.00	4.78	4.60	82.99	.....	3.9	.....	9.6	.....	9.6	.....
Pure Mill Feed.....	Eldred Mill Co.....	Jackson, Mich.....	16.46	14.87	4.26	4.05	83.68	56.22	6.0	.....	9.9	.....	9.63	.....
Wheat Bran.....	Empire Milling Co.....	Minneapolis, Minn.....	14.67	14.00	5.08	4.00	83.25	.....	6.0	.....	11.0	.....	11.0	.....
Dairy Maid Winter Wheat Bran.....	Federal Milling Co.....	Lockport, N. Y.....	14.63	13.00	4.09	2.00	83.68	52.00	6.5	.....	11.1	.....	14.0	.....
Dairy Maid Winter Wheat Middlings.....	Federal Milling Co.....	Lockport, N. Y.....	15.14	13.50	5.17	2.25	84.58	53.00	4.1	.....	11.0	.....	8.5	.....

Name of Sample.	Manufactured by.	Address.	Protein.		Fat.		Carbo-hydrates.		Ash.		Moisture.		Crude Fibre.	
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.
WHEAT FEEDS—Continued.														
Lucky Spring Wheat Bran.....	Federal Milling Co.	Lockport, N. Y.	16.73	13.00	5.18	2.50	61.79	51.00	3.9	.....	11.0	.....	14.0	Guaranteed
Lucky Spring Wheat Bran.....	Federal Milling Co.	Lockport, N. Y.	15.59	13.00	4.63	2.50	62.38	51.00	5.5	.....	11.9	.....	14.0	Guaranteed
Garland Mixed Feed.....	Garland Milling Co.	Greensburg, Ind.	15.85	15.00	3.96	4.00	63.89	55.00	5.8	.....	10.5	.....	9.0	Guaranteed
Grafton Wheat Feed.....	Grafton Rolling Mills Co.	Grafton, N. Dak.	14.80	14.00	3.88	2.70	66.32	64.10	4.7	.....	10.3	.....	8.4	Guaranteed
Impr. Grafton Wheat Feed.....	Grafton Rolling Mills Co.	Grafton, N. Dak.	17.08	15.40	5.45	4.50	65.17	.....	5.9	.....	9.5	.....	9.6	Guaranteed
Gwinn's Dairy Feed.....	Gwinn Milling Co.	Columbus, Ohio	16.40	15.00	4.95	4.00	64.41	.....	4.9	.....	9.2	.....	9.0	Guaranteed
Gwinn's Wheat Bran.....	Gwinn Milling Co.	Columbus, Ohio	17.11	15.00	5.71	4.00	64.41	.....	6.1	.....	10.6	.....	10.0	Guaranteed
Gwinn's Wheat Middlings.....	Gwinn Milling Co.	Columbus, Ohio	15.16	18.00	3.93	4.00	64.63	.....	6.3	.....	8.7	.....	7.4	Guaranteed
Choice Wheat Bran.....	Hecker-Jones-Jewel Milling Co.	Buffalo, N. Y.	16.03	13.75	5.72	3.00	63.25	52.60	3.8	.....	9.2	.....	12.5	Guaranteed
Fancy White Middlings.....	Hecker-Jones-Jewel Milling Co.	Buffalo, N. Y.	17.51	16.00	5.40	4.75	64.79	59.00	5.7	.....	9.2	.....	13.5	Guaranteed
Mixed Feed.....	Hecker-Jones-Jewel Milling Co.	Buffalo, N. Y.	18.04	14.75	5.07	3.75	61.69	53.25	3.1	.....	9.5	.....	11.2	Guaranteed
Mixed Feed.....	Hecker-Jones-Jewel Milling Co.	Buffalo, N. Y.	17.69	14.75	5.34	3.75	63.47	53.25	5.1	.....	8.3	.....	11.2	Guaranteed
Red Dog Flour.....	Hecker-Jones-Jewel Milling Co.	Buffalo, N. Y.	17.30	16.25	5.27	4.00	64.63	60.00	2.8	.....	10.0	.....	4.12	Guaranteed
Standard Middlings.....	Hecker-Jones-Jewel Milling Co.	Buffalo, N. Y.	18.65	16.00	6.82	4.75	59.92	54.25	4.7	.....	9.9	.....	8.37	Guaranteed
Standard Middlings.....	Hecker-Jones-Jewel Milling Co.	Buffalo, N. Y.	18.65	16.00	6.82	4.75	59.92	54.25	4.9	.....	10.8	.....	9.25	Guaranteed
Jenks' Strike Stock Feed.....	The Huron Milling Co.	Harbor Beach, Mich.	13.14	12.18	4.28	4.60	67.98	68.32	5.2	.....	9.4	.....	5.85	Guaranteed
Lucky Strike Stock Feed.....	Ill. Feed Mills	St. Louis, Mo.	14.06	12.00	3.03	3.00	69.11	67.00	4.7	.....	9.1	.....	20.0	Guaranteed
Blue Tag Mixed Feed.....	F. W. Kelley Co.	St. Johnsbury, Vt.	14.89	16.00	4.38	4.00	67.03	.....	4.4	.....	9.3	.....	7.5	Guaranteed
Anchor Brand.....	Kemper Mill & Elevator Co.	Kansas City, Mo.	16.55	14.50	3.06	4.00	65.09	53.50	6.2	.....	9.1	.....	10.0	Guaranteed
Snow Flake Mixed Feed.....	Lawrenceburg Roller Mills Co.	Lawrenceburg, Ind.	17.51	15.20	4.77	4.30	62.32	.....	5.8	.....	9.6	.....	8.0	Guaranteed
Elmeo Fancy Wheat Bran.....	Listman Mill Co.	LaCrosse, Wis.	16.29	14.90	4.91	3.80	65.10	.....	5.7	.....	11.6	.....	12.0	Guaranteed
Elmeo Red Dog Flour.....	Listman Mill Co.	LaCrosse, Wis.	16.29	14.56	3.45	2.85	67.46	.....	2.2	.....	10.6	.....	3.0	Guaranteed
Fancy Canadian Middlings.....	Maple Leaf Milling Co.	Toronto, Canada	15.86	16.00	5.15	5.50	64.69	.....	4.2	.....	10.1	.....	10.0	Guaranteed
Maple Leaf Wheat Bran.....	Maple Leaf Milling Co.	Toronto, Canada	17.25	15.50	5.50	4.50	62.25	.....	4.8	.....	11.2	.....	12.0	Guaranteed
Rex Wheat Middlings.....	Maple Leaf Milling Co.	Toronto, Canada	16.45	16.00	5.94	5.50	62.91	.....	4.6	.....	9.1	.....	10.0	Guaranteed
Wheat Bran.....	Maple Leaf Milling Co.	Toronto, Canada	16.75	15.50	5.56	4.50	63.39	.....	5.3	.....	11.3	.....	12.0	Guaranteed
Middlings.....	McQuesten & Lewis	Manchester, N. H.	12.69	.....	3.23	.....	70.48	.....	2.3	.....	11.3	.....	.....	Guaranteed
Harter's Mainspring Feed.....	The Mennel Milling Co.	Toledo, Ohio	16.55	15.00	5.29	4.00	63.76	.....	5.4	.....	8.9	.....	8.0	Guaranteed
Pure Wheat Bran.....	Milbourn Mills	Philadelphia, Pa.	14.89	15.00	3.48	4.00	66.13	.....	6.6	.....	8.9	.....	10.0	Guaranteed
Pure Wheat Bran.....	National Feed Co.	St. Louis, Mo.	14.89	14.50	4.78	4.00	64.23	54.00	6.3	.....	9.8	.....	10.0	Guaranteed
Wheat Mixed Feed.....	National Feed Co.	St. Louis, Mo.	15.85	15.00	3.86	4.00	67.12	54.00	5.3	.....	8.0	.....	9.0	Guaranteed
Highest Quality Pennant Feed.....	National Milling Co.	Toledo, Ohio	16.29	15.00	3.29	3.75	64.18	49.00	4.7	.....	9.3	.....	8.5	Guaranteed
Pennant Mixed Feed.....	National Milling Co.	Toledo, Ohio	15.76	15.00	4.81	3.75	63.73	49.00	5.3	.....	10.4	.....	8.5	Guaranteed
Powerful Standard Middlings.....	The New England Flour Co.	Boston, Mass.	16.38	15.00	6.27	4.00	62.45	.....	4.5	.....	9.3	.....	11.0	Guaranteed
Planet Feed.....	Northwestern Consol. Milling Co.	Minneapolis, Minn.	16.64	15.00	5.57	4.00	62.88	55.00	5.3	.....	9.3	.....	8.0	Guaranteed
Pure Wheat Bran.....	Northwestern Consol. Milling Co.	Minneapolis, Minn.	16.33	14.50	4.43	4.00	64.12	50.00	3.8	.....	8.2	.....	11.0	Guaranteed
XXX Comet.....	Northwestern Consol. Milling Co.	Minneapolis, Minn.	18.85	16.50	5.96	4.00	63.51	60.00	3.5	.....	8.2	.....	3.0	Guaranteed
Wheat Bran.....	The Ogilvie Flour Mills Co.	Montreal, Canada	15.24	13.00	4.92	4.00	62.94	50.00	0.40	.....	10.3	.....	15.0	Guaranteed
Wheat Bran.....	The Ogilvie Flour Mills Co.	Montreal, Canada	16.99	13.00	4.28	4.00	64.12	50.00	5.7	.....	8.4	.....	13.0	Guaranteed
Wheat Bran.....	The Ogilvie Flour Mills Co.	Montreal, Canada	15.46	15.00	5.73	4.00	64.16	62.00	7.5	.....	10.6	.....	11.0	Guaranteed

	12.61	11.00	5.66	4.00	67.53	53.00	5.3	8.9	14.0
Pillsbury Milling Co.	Minneapolis, Minn.	16.34	16.00	5.10	4.00	62.96	58.00	10.9	14.0
Pillsbury Milling Co.	Minneapolis, Minn.	12.78	15.00	5.34	4.00	64.08	55.00	9.7	10.0
Pillsbury Milling Co.	Minneapolis, Minn.	15.68	13.00	4.78	4.00	63.74	50.00	9.1	8.0
Pillsbury Milling Co.	Minneapolis, Minn.	16.00	14.00	5.49	4.00	62.91	52.00	10.6	13.0
Pillsbury Milling Co.	Minneapolis, Minn.	16.20	14.00	6.08	4.00	63.62	52.00	8.9	11.0
Pillsbury Milling Co.	Minneapolis, Minn.	18.40	16.00	6.57	4.00	60.67	60.00	10.7	11.0
Pillsbury Milling Co.	Minneapolis, Minn.	19.45	16.00	5.32	4.00	62.43	60.00	9.6	4.0
Portland Milling Co.	Portland, Mich.	14.15	13.56	3.86	3.58	65.19	59.54	11.7	8.47
Quaker City Flour Mills Co.	Philadelphia, Pa.	15.50	13.00	3.94	3.00	64.66	50.00	6.4	10.0
Richardson Roller Mills Co.	Richardson, No. Dak.	19.88	16.70	5.15	3.70	59.27	55.00	9.5	9.2
Royal Milling Co.	Great Falls, Mont.	17.34	14.50	4.38	3.00	62.38	50.00	10.4	9.0
Royal Milling Co.	Great Falls, Mont.	17.16	16.00	4.37	3.50	65.17	53.75	8.1	7.11
Russell-Miller Milling Co.	Minneapolis, Minn.	15.06	13.00	4.98	4.00	63.95	60.00	9.2	11.0
Russell-Miller Milling Co.	Minneapolis, Minn.	15.06	13.00	4.19	4.00	63.95	60.00	10.1	11.0
Russell-Miller Milling Co.	Minneapolis, Minn.	19.44	15.00	6.36	5.00	61.90	60.00	8.0	6.0
Russell-Miller Milling Co.	Minneapolis, Minn.	17.43	15.00	5.32	4.50	63.65	60.00	8.5	10.0
Russell-Miller Milling Co.	Minneapolis, Minn.	18.21	15.00	4.99	4.50	61.40	60.00	10.5	10.0
Russell-Miller Milling Co.	Minneapolis, Minn.	17.25	15.00	5.57	4.00	61.22	60.00	8.4	9.0
Shane Bros. & Wilson Co.	Minneapolis, Minn.	17.25	15.00	5.41	4.50	61.90	60.00	10.0	7.39
Sheffield King Milling Co.	Minneapolis, Minn.	17.25	15.00	5.81	4.50	61.90	60.00	9.4	7.0
St. Albans Grain Co.	St. Albans, Vt.	17.25	15.00	4.68	4.00	65.07	55.00	9.8	7.0
St. Paul Milling Co.	St. Paul, Minn.	15.50	14.00	5.03	4.00	63.07	50.00	10.3	12.0
Starks Milling Co.	Alton, Minn.	16.55	16.00	3.81	3.50	63.94	50.00	10.3	12.0
Starks & Crescent Milling Co.	Chicago, Ill.	15.76	15.00	4.25	4.00	62.91	60.00	10.8	9.10
F. W. Stock & Sons.	Hillsdale, Mich.	13.75	14.00	4.35	3.00	65.60	45.00	9.7	10.0
F. W. Stock & Sons.	Hillsdale, Mich.	15.06	14.00	3.09	3.00	64.55	45.00	11.6	10.0
F. W. Stock & Sons.	Hillsdale, Mich.	17.08	16.00	4.89	4.00	62.23	45.00	10.0	10.0
David Stott Flour Mills.	Detroit, Mich.	14.98	14.00	3.70	4.00	67.72	60.00	10.4	5.5
David Stott Flour Mills.	Detroit, Mich.	15.54	13.50	4.41	4.00	64.45	50.00	9.8	11.5
David Stott Flour Mills.	Detroit, Mich.	14.28	12.80	2.39	2.00	72.63	67.00	1.2	9.5
David Stott Flour Mills.	Detroit, Mich.	14.71	14.50	3.88	4.00	66.12	60.00	3.3	12.1
David Stott Flour Mills.	Detroit, Mich.	14.54	14.50	4.46	4.00	63.00	52.50	5.8	8.5
Stratton & Co.	Concord, N. H.	14.54	15.00	4.57	4.00	66.19	60.00	9.3	11.0
Stratton & Co.	Concord, N. H.	15.24	16.20	5.24	4.25	65.72	60.00	3.7	10.1
Stratton & Co.	Concord, N. H.	14.28	15.87	4.96	4.92	64.46	60.00	11.4	9.12
Stratton & Co.	Concord, N. H.	15.15	15.87	5.45	4.92	65.20	60.00	9.5	9.12
Ceo. Urban Milling Co.	Buffalo, N. Y.	16.73	14.00	5.65	3.50	63.52	55.00	8.4	12.5
Valley City Milling Co.	Grand Rapids, Mich.	14.98	14.50	4.97	4.82	62.75	60.00	11.7	12.5
Vallier & Snies Milling Co.	St. Louis, Mo.	15.85	14.50	4.34	3.50	62.91	50.00	10.6	10.0
Voigt Milling Co.	Grand Rapids, Mich.	14.98	14.50	4.63	3.50	64.89	60.00	11.6	10.0
Voigt Milling Co.	Grand Rapids, Mich.	15.24	14.50	4.96	4.00	64.11	60.00	8.9	11.0
Voigt Milling Co.	Grand Rapids, Mich.	15.24	14.50	5.51	3.50	66.05	60.00	8.9	11.0
Voigt Milling Co.	Victor, N. Y.	15.94	15.00	5.01	4.50	65.75	53.31	8.8	10.0
Voigt Milling Co.	Victor, N. Y.	14.01	15.00	3.33	4.50	65.46	60.00	11.1	10.0
Waggoner-Gates Milling Co.	Independence, Mo.	16.80	13.00	4.15	4.00	63.50	50.00	9.2	10.0

Name of Sample.	Manufactured by.	Address.	Protein.		Fat.		Carbo- hydrates.		Ash.		Moisture.		Grade Fibre.	
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.
WHEAT FEEDS.—Continued.														
Adrian Red Dog Flour	Washburn-Crosby Co.	Minneapolis, Minn.	17.74	16.00	5.58	4.00	62.68	50.00	3.6	.....	10.4	.....	.....	4.0
Adrian Red Dog Flour	Washburn-Crosby Co.	Minneapolis, Minn.	17.30	16.00	4.81	4.00	64.89	60.00	2.5	.....	10.5	.....	2.13	4.0
Wheat Bran	Washburn-Crosby Co.	Minneapolis, Minn.	14.71	13.00	4.47	4.00	62.84	50.00	6.5	.....	11.1	.....	.....	13.0
Wheat Bran	Washburn-Crosby Co.	Minneapolis, Minn.	14.67	13.00	4.85	4.00	65.46	50.00	6.4	.....	9.0	.....	.....	13.0
Wheat Mixed Feed	Washburn-Crosby Co.	Minneapolis, Minn.	16.91	14.00	5.23	4.00	61.76	58.00	4.6	.....	8.5	.....	.....	10.0
Wheat Standard Middings	Washburn-Crosby Co.	Minneapolis, Minn.	14.90	14.00	5.21	4.00	65.21	52.00	5.3	.....	9.3	.....	.....	10.4
Blue Seal Wheat Feed	L. K. Webster Co.	Lawrence, Mass.	16.73	16.00	5.07	4.00	63.80	.....	3.0	.....	9.4	.....	.....	7.0
Star Winter Wheat, Bran and Screenings	The Western Star Mill Co.	Salina, Kans.	16.99	15.00	4.18	3.50	62.53	50.00	6.5	.....	9.8	.....	.....	11.0
Kent Mixed Feed	Williams Bros. Co.	Kent, Ohio	14.01	12.00	4.00	2.50	67.19	.....	4.7	.....	10.1	.....	.....	8.0
Nokomas Wheat Bran	Yerxa-Andrew-Thurston	Minneapolis, Minn.	15.33	12.00	5.00	3.00	64.57	50.00	5.0	.....	10.1	.....	.....	13.0
COTTONSEED MEALS.														
Capital Cottonseed	E. W. Bailey & Co.	Montpelier, Vt.	35.55	36.00	6.25	6.00	43.00	.....	6.0	.....	9.2	.....	.....	12.0
Cottonseed Meal	E. W. Bailey & Co.	Montpelier, Vt.	33.63	.....	5.80	.....	45.37	.....	5.3	.....	9.9	.....	.....	.....
Columbia Cottonseed Feed	Union Seed Fert. Co.	Huntsville, Ala.	20.31	20.56	4.23	3.00	62.86	35.00	3.9	.....	8.7	.....	23.9	25.0
Dove Brand Prime Cottonseed Meal	F. W. Brode & Co.	Memphis, Tenn.	38.53	38.63	8.68	6.00	36.88	22.00	5.6	.....	10.1	.....	.....	12.0
Jay Brand Cottonseed Feed	F. W. Brode & Co.	Memphis, Tenn.	37.13	36.00	7.05	5.00	39.52	30.00	6.7	.....	9.6	.....	.....	14.0
Jay Cottonseed Feed	F. W. Brode & Co.	Memphis, Tenn.	32.75	36.00	6.98	5.00	44.57	30.00	6.0	.....	9.7	.....	.....	14.0
Buckeye Good Cottonseed Meal	The Buckeye Cotton Oil Co.	Cincinnati, Ohio	36.00	36.00	6.13	5.00	43.91	30.00	5.5	.....	8.1	.....	.....	14.0
Buckeye Good Cottonseed Meal	The Buckeye Cotton Oil Co.	Cincinnati, Ohio	36.39	36.00	6.45	5.00	42.76	30.00	5.9	.....	8.5	.....	.....	14.0
Beauty Cottonseed Feed	S. P. Davis	Little Rock, Ark.	36.25	36.00	6.19	6.00	45.16	.....	6.3	.....	6.1	.....	.....	14.0
East St. Louis Brand Cottonseed Meal	East St. Louis Cotton Oil Co.	Nat. Stock Yards, Ill.	37.56	38.50	6.18	6.00	44.06	.....	6.1	.....	6.1	.....	.....	12.0
St. Clair Cottonseed Meal	East St. Louis Cotton Oil Co.	Nat. Stock Yards, Ill.	35.06	36.00	5.86	5.00	44.18	.....	6.4	.....	8.5	.....	.....	16.0
Gilt Edge Cottonseed Meal	Empire Cotton Oil Co.	Atlanta, Ga.	34.59	36.00	6.72	5.50	45.49	30.00	5.1	.....	8.1	.....	.....	14.0
Gilt Edge Brand Cottonseed Meal	Empire Cotton Oil Co.	Atlanta, Ga.	36.13	36.00	6.88	5.50	44.29	30.00	5.2	.....	8.0	.....	.....	14.0
Danish Cottonseed Meal	Humphreys-Godwin Co.	Memphis, Tenn.	36.13	36.00	6.89	5.00	42.88	25.00	6.0	.....	8.1	.....	.....	15.0
Danish Brand Cottonseed Meal	Humphreys-Godwin Co.	Memphis, Tenn.	35.29	36.00	6.50	5.00	44.34	25.00	6.0	.....	8.5	.....	.....	15.0
Fort Brand Cottonseed Meal	Humphreys-Godwin Co.	Memphis, Tenn.	36.95	38.55	6.77	6.00	40.98	24.00	5.9	.....	8.7	.....	.....	12.0
77 Cottonseed Feed	Humphreys-Godwin Co.	Memphis, Tenn.	19.36	20.00	4.47	4.00	63.97	.....	5.5	.....	6.7	.....	.....	28.0
Kineda Prime Cottonseed Meal	J. M. MacDonald	1914 Union Central Bldg., Cincinnati	38.35	38.60	6.04	6.00	40.83	22.00	6.28	.....	8.5	.....	.....	12.0
Tip Top Good Cottonseed	Meridian Grain & Elevator Co.	Meridian, Miss.	35.11	36.00	6.89	5.00	39.34	20.00	7.3	.....	10.2	.....	.....	15.0
Tip Top Good Cottonseed	Meridian Grain & Elevator Co.	Meridian, Miss.	36.69	36.00	6.89	3.00	40.02	20.00	9.9	.....	8.5	.....	.....	15.0
Globe Brand Cottonseed Feed	C. L. Montgomery & Co.	Memphis, Tenn.	20.19	20.00	3.51	3.50	63.20	.....	4.2	.....	8.9	.....	.....	27.0
Planter's Perfect Brand Cottonseed Feed	Planter's Oil Mill & Gin Co.	Kosciusko, Miss.	19.35	20.00	3.81	3.50	63.04	.....	4.1	.....	9.7	.....	.....	25.0
Paritan Cottonseed Meal	J. E. Soper Co.	Boston, Mass.	36.91	36.00	6.58	5.00	40.41	30.00	7.1	.....	9.0	.....	.....	15.0

COTTONSEED MEALS.—Cont'd.

Good Cottonseed Meal.....	The Southern Oil Co.....	33.10	36.00	5.61	5.00	46.79	25.00	6.2	8.3	.....	18.0
No. 7 Cottonseed Meal.....	Union Seed & Fertilizer Co.....	34.41	36.00	6.15	5.50	74.94	27.00	5.4	9.1	.....	14.0
Surety Brand Cottonseed Meal.....	Union Seed & Fertilizer Co.....	38.00	36.00	7.83	5.30	39.97	27.00	6.1	8.1	.....	14.0
HOMINY FEEDS.											
Spring Garden Hominy Feed.....	Baltimore Pearl Hominy Co.....	13.08	10.00	6.99	6.00	69.03	.....	3.3	8.6	.....	5.77 6.00
MOLASSES FEEDS.											
Clover Leaf Dairy Feed.....	Buffalo, N. Y.....	15.46	13.50	4.38	3.50	58.56	50.00	11.2	9.4	.....	16.81 15.00
International Planter's Dairy Feed	Minneapolis, Minn.....	22.47	22.00	3.76	3.50	58.07	37.00	6.8	8.9	.....	14.92 18.50
International Ready Ration.....	Minneapolis, Minn.....	19.38	20.00	5.57	5.00	53.55	45.00	9.3	11.6	.....	13.86 15.00
International Special Dan Patch	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Horse Feed.....	Minneapolis, Minn.....	13.04	9.00	3.36	3.00	63.80	65.00	8.0	11.5	.....	14.83 15.00
International Special Dairy Feed.....	Minneapolis, Minn.....	15.68	15.00	5.50	4.50	60.72	50.00	10.1	8.1	.....	18.31 14.00
Quaker Dairy Feed with Molasses	Chicago, Ill.....	17.95	15.00	5.75	5.50	59.70	47.50	5.9	10.7	.....	15.45 16.00
Quaker Oats Co.....	Chicago, Ill.....	16.46	16.00	5.69	5.50	58.95	47.50	9.5	9.4	.....	18.08 16.00
Purina O-Molene Feed.....	St. Louis & Buffalo.....	10.59	9.70	3.76	3.20	71.95	67.00	4.8	8.9	.....	12.41 8.00
POULTRY FEEDS.											
Queen Poultry Mash.....	The Albert Dickinson Co.....	11.38	11.00	5.04	2.50	70.88	60.00	3.7	9.0	.....	8.64 10.00
Butchford's Fill the Basket Egg	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mash.....	Blatchford Calf Meal Factory.....	21.23	19.00	4.89	4.00	53.78	51.00	12.0	8.0	.....	9.36 10.00
Blatchford's Milk Mash.....	Blatchford Calf Meal Factory.....	19.18	20.00	4.79	4.00	56.05	52.00	10.2	9.8	.....	7.94 7.50
Butfero Poultry Mash.....	Buffalo, N. Y.....	15.59	15.00	5.67	4.00	65.94	.....	3.0	9.8	.....	5.69 6.00
E. A. Cowee's Climax Poultry	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mash.....	E. A. Cowee Co.....	18.82	20.00	4.90	3.50	57.07	.....	10.6	8.6	.....	7.57 10.00
Wirthmore Fish and Scrap Poul-	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
try Mash.....	Chas. M. Cox Co.....	18.12	17.00	3.11	4.00	56.76	.....	11.5	10.5	.....	4.50
Wirthmore Growing Feed with	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Scraps.....	Chas. M. Cox Co.....	15.90	15.00	5.43	4.50	59.97	50.00	8.6	10.1	.....	6.35 4.50
Wirthmore Mash Feed (fish and	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
scraps).....	Chas. M. Cox Co.....	19.70	20.00	4.75	4.00	59.19	50.00	9.2	8.3	.....	9.74 8.50
Green's Meat Mash for Poultry.....	Greene Chick Feed Co.....	14.67	12.00	5.14	3.00	59.19	.....	11.5	9.5	.....	9.54 7.00
Red Comb Meat Mash with Shell	Marblehead, Mass.....	20.67	15.00	4.69	4.00	58.44	45.00	6.3	9.9	.....	8.94 10.00
Hinckley Poultry Feed.....	Chicago, Ill.....	33.76	35.00	13.41	8.00	.....	.....	40.0	4.4	.....	.....
Manchester Poultry Feed.....	Hinckley Rendering Co.....	37.00	40.00	15.94	8.00	.....	.....	35.7	5.7	.....	.....
Poultry Mash.....	Manchester, N. H.....	21.01	11.00	4.34	2.50	57.55	60.00	7.30	8.8	.....	7.22 7.00
Lay or Bust Dry Mash.....	McQuesten & Lewis.....	18.21	18.00	5.31	1.50	55.28	40.00	11.40	9.8	.....	6.55 12.0
Lay or Bust Dry Mash.....	Boston, Mass.....	19.61	18.00	4.65	1.50	58.55	40.00	9.20	8.0	.....	10.89 12.0
Portland Poultry Feed.....	Park & Pollard.....	38.75	40.00	14.83	9.00	.....	.....	.....	6.0	.....	.....
Quaker Poultry Mash.....	Portland Rendering Co.....	17.51	17.50	5.03	4.00	58.63	52.00	8.90	8.70	.....	8.08 10.0
Schumacher Poultry Mash.....	Quaker Oats Co.....	20.93	19.00	5.49	4.00	61.50	52.00	5.70	9.8	.....	10.0
Prima Chicken Chowder Feed.....	Ralston Purina Co., Inc.....	17.51	17.50	4.63	4.00	57.44	56.00	7.30	9.7	.....	9.06 9.0
Chic Chick Chowder Feed.....	Buffalo & St. Louis.....	50.35	50.00	2.28	2.00	.....	.....	3.65	4.5	.....	1.0
Stratton's Poultry Mash with Shell	Russia Cement Co.....	17.16	15.00	4.69	4.00	59.15	45.00	10.00	9.0	.....	8.19 10.0
Stratford Dry Mash.....	Stratton & Co.....	20.23	16.00	5.04	3.00	56.96	40.00	12.80	9.3	.....	6.64 5.00
Tri-O-Ga Laying Food.....	Strauss Milling Co.....	16.81	16.00	4.13	2.50	48.33	.....	17.6	8.8	.....	6.68 6.00
Blue Seal Dry Mash for Poultry.....	Tri-O-Ga Laying Food.....	18.53	16.00	4.89	3.00	54.58	.....	19.4	8.6	.....	6.95 10.0
Meat and Bone Poultry Scrap.....	H. K. Webster Co.....	39.41	35.00	14.46	12.00	.....	.....	3.69	6.1	.....	.....
Dry Mash.....	Whitman & Pratt Rendering Co.....	15.24	.....	4.49	.....	64.57	.....	6.2	9.5	.....	10.69

Name of Sample.	Manufactured by.	Address.	Protein.		Fat.		Carbo- hydrates.		Ash.		Moisture.		Crude Fibre.	
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.
COMPOUNDED FEEDS.														
Acme Stock Feed.....	Acme Evans Co.	Indianapolis, Ind.	9.37	8.50	5.50	3.25	73.23	4.80	.....	7.1	.....	14.30	13.0	
Lortage Stock Feed.....	Akron Feed & Milling Co.	Akron, Ohio	8.50	8.50	6.45	4.00	70.45	5.70	.....	8.9	.....	13.69	10.0	
Stag Stock Feed.....	The Allport Dickinson Co.	Chicago, Ill.	9.28	9.00	4.21	3.00	71.31	60.00	5.50	.....	9.7	.....	10.15	12.0
Ohio Farm Feed.....	Austed & Burk Co.	Springfield, Ohio	12.43	11.50	4.23	4.50	68.54	59.00	4.20	.....	10.6	.....	8.03	8.5
Pennant Stock Feed.....	E. W. Bailey	Swanton, Vt.	8.23	10.00	5.49	6.50	74.08	3.00	.....	9.4	.....	9.42	10.0	
Pennant Stock Feed.....	E. W. Bailey	Swanton, Vt.	10.16	10.00	5.24	6.50	71.53	3.50	.....	9.6	.....	10.06	10.0	
Buffalo Horse Feed.....	Buffalo Cereal Co.	Buffalo, N. Y.	11.99	10.00	4.39	4.00	71.29	60.00	4.30	.....	8.1	.....	12.11	9.0
Buffalo Cereal Co. Feed.....	Buffalo Cereal Co.	Buffalo, N. Y.	9.11	9.00	3.97	4.00	72.02	3.90	.....	10.7	.....	8.29	9.0	
Buffeco Steam Cooked Feed.....	Buffalo Cereal Co.	Buffalo, N. Y.	11.12	10.00	4.20	5.00	69.93	60.00	4.20	.....	10.7	.....	13.71	10.0
Buffeco Stock Feed.....	Chas. M. Cox Co.	Buffalo, N. Y.	10.94	9.00	5.23	4.00	69.13	60.00	3.50	.....	10.2	.....	9.21	9.5
Wirthmore Stock Feed.....	Chas. M. Cox Co.	Boston, Mass.	11.12	9.00	5.49	4.00	70.62	.....	4.50	.....	8.3	.....	11.80	13.0
Crawford's Stock Feed.....	Crawford Bros.	Walton, N. Y.	11.32	9.00	5.77	4.00	69.31	.....	5.30	.....	8.0	.....	12.83	9.0
Stock Feed.....	John W. Eschelmann	Lancaster, Pa.	13.66	10.00	4.33	3.00	70.91	.....	5.20	.....	7.3	.....	15.21	14.00
Grandin's Stock Feed.....	D. H. Grandin's Milling Co.	Jamestown, N. Y.	10.07	9.00	5.90	5.00	71.23	55.00	4.00	.....	8.6	.....	11.56	14.00
Grandin's Stock Feed.....	D. H. Grandin's Milling Co.	Jamestown, N. Y.	10.54	9.00	6.35	5.00	70.31	55.00	4.10	.....	8.6	.....	11.45	15.00
Harvest Horse Feed.....	Hales & Edwards Co.	Chicago, Ill.	14.28	10.00	2.08	2.00	65.44	45.00	8.30	.....	9.9	.....	17.31	10.0
Algrene Milk Feed.....	H-O Co.	Buffalo, N. Y.	16.55	14.00	3.18	4.00	65.17	.....	5.70	.....	8.2	.....	15.18	15.00
Lucky Strike Stock Feed.....	Ill. Feed Mills.	St. Louis, Mo.	11.29	11.00	4.16	3.00	69.15	67.00	7.20	.....	9.4	.....	17.31	10.0
Lucky Strike Stock Feed.....	Ill. Feed Mills.	St. Louis, Mo.	9.98	11.00	3.56	3.00	71.76	53.00	5.60	.....	9.1	.....	17.33	15.00
Domino (formerly) Stock Feed.....	Nowak Milling Co.	Buffalo, N. Y.	9.19	9.00	5.74	3.00	71.47	45.00	4.40	.....	9.2	.....	12.30	12.0
Park & Pollard Stock Feed.....	Park & Pollard Co.	Boston, Mass.	9.81	9.00	6.21	1.50	69.18	.....	4.3	.....	10.5	.....	10.89	12.00
Buckeye Feed.....	Quaker Oats Co.	Chicago, Ill.	16.55	15.00	4.83	4.50	64.92	63.00	5.6	.....	8.1	.....	8.72	8.50
Schumacher Feed.....	Quaker Oats Co.	Chicago, Ill.	11.61	10.00	5.97	3.25	67.42	62.00	5.4	.....	9.6	.....	12.69	10.00
Schumacher Feed.....	Quaker Oats Co.	Chicago, Ill.	11.38	10.00	4.29	3.25	70.63	62.00	3.6	.....	10.1	.....	12.21	10.00
Purina Pig Chow.....	Ralston Purina Co.	St. Louis & Buffalo.	15.15	.....	5.74	.....	65.41	4.5	.....	9.2	.....	14.50	.....
Emergency Horse Feed.....	St. Albans Grain Co.	St. Albans, Vt.	10.59	9.00	4.88	4.00	71.83	60.00	4.1	.....	8.6	.....	12.93	10.50
Stock Feed.....	Stratton & Co.	Concord, N. H.	9.37	8.80	4.52	3.35	73.41	65.00	3.5	.....	9.2	.....	13.71	11.50
Blue Grass Valley Feed.....	A. Walbr & Co.	Henderson, Ky.	8.91	9.00	2.70	2.00	74.69	.....	4.7	.....	9.0	.....	17.38	17.00
Blue Seal Stock Feed.....	H. K. Webster Co.	Lawrence, Mass.	12.61	10.00	4.72	4.00	68.37	.....	4.8	.....	9.5	.....	11.87	8.00
ALFALFA MEALS.														
Otto Weiss Alfalfa Meal.....	The Otto Weiss Milling Co.	Wichita, Kans.	15.54	12.00	2.74	1.00	64.82	95.00	8.9	.....	8.0	.....	.....	35.00
The Park & Pollard Co. Alfalfa.....	The Park & Pollard Co.	Boston, Mass.	16.25	12.00	2.37	1.50	67.18	40.00	9.3	.....	4.9	.....	.....	30.00
Alfalfa.....	Stratton & Co.	Concord, N. H.	16.73	.....	2.64	.....	60.83	.....	10.7	.....	9.1	.....	.....	30.00
Wichita Pure Alfalfa Meal.....	Wichita Alfalfa Stock Food Co.	Wichita, Kans.	15.59	12.00	2.40	1.50	65.51	.....	8.0	.....	8.5	.....	.....	30.00
CALF MEALS.														
Blatchford's Calf Meal.....	Blatchford Calf Meal Factory.	Waukegan, Ill.	20.58	24.00	8.54	5.00	56.38	53.00	5.0	.....	9.5	.....	7.63	6.75
Blatchford's Calf Meal.....	Blatchford's Calf Meal Factory.	Waukegan, Ill.	24.23	24.00	6.74	5.00	54.93	53.00	5.6	.....	8.5	.....	7.36	6.75

Name of Sample.	Manufactured by.	Address.	Protein.		Fat.		Carbo- hydrates.		Ash.		Moisture.		Crude Fibre.	
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.
MEAT & BONE FEEDS.—Cont'd.														
Beach's Superior Beef Scraps.....	Beach Soap Co.....	Lawrence, Mass.....	51.01	50.00	15.04	15.00	.....	.....	26.3	.....	5.3	.....	.....	.....
Star Brand Beef Scraps.....	Beach Soap Co.....	Lawrence, Mass.....	38.88	40.00	11.30	10.00	.....	.....	38.1	.....	7.2	.....	.....	.....
Star Brand Ground Beef Scraps.....	Beach Soap Co.....	Lawrence, Mass.....	38.61	40.00	11.27	10.00	.....	.....	39.5	.....	5.7	.....	.....	.....
Breck's Ground Beef Scraps.....	Joseph Breck & Sons.....	Boston, Mass.....	40.11	43.00	15.12	12.00	.....	.....	33.3	.....	6.5	.....	.....	.....
Beef Scrap.....	John C. Dow Co.....	Boston, Mass.....	42.99	43.00	20.20	12.00	.....	.....	25.1	.....	6.9	.....	.....	.....
Ground Beef Scraps.....	John C. Dow Co.....	Boston, Mass.....	45.00	43.00	18.32	12.00	.....	.....	22.4	.....	8.8	.....	.....	.....
Meat Scraps.....	W. D. Higgins.....	Framingham, Mass.....	36.08	40.00	17.62	12.00	.....	.....	34.4	.....	3.4	.....	.....	1.00
Red Star Brand Fish Scraps.....	International Ghe Co.....	Boston, Mass.....	45.18	45.00	2.23	2.00	.....	.....	31.5	.....	8.7	.....	.....	.....
Marsh's Pure Ground Scraps.....	The Geo. E. Marsh Co.....	Lynn, Mass.....	37.74	40.00	10.06	10.00	.....	.....	29.4	.....	7.5	.....	.....	.....
Manchester Bone and Meat Meal.....	Manchester Rendering Co.....	Manchester, N. H.....	34.94	35.00	10.33	8.00	.....	.....	46.7	.....	4.2	.....	.....	.....
Manchester Bone Meal.....	Manchester Rendering Co.....	Manchester, N. H.....	22.16	20.00	10.84	5.00	.....	.....	61.2	.....	4.8	.....	.....	.....
Darling's Pure Ground Meat Scraps.....	The Van Iderstine Co.....	Long Island, N. Y.....	54.38	45.00	11.06	5.00	.....	.....	27.5	.....	4.8	.....	.....	3.00
Meat and Bone Poultry Scrap.....	Whitman & Pratt Rendering Co.....	Boston, Mass.....	41.68	25.00	13.30	12.00	.....	.....	35.5	.....	7.3	.....	.....	.....
DAIRY FEEDS														
Arady Dairy Feed.....	Arady Farms Milling Co.....	Roundout, Ill.....	18.39	16.00	3.51	3.50	61.40	60.00	7.0	.....	9.7	.....	15.24	15.00
Burgeo Creamery Feed.....	Buffalo Cereal Co.....	Buffalo, N. Y.....	19.35	18.00	4.75	4.00	61.50	.....	4.8	.....	8.9	.....	10.93	9.00
Unicorn Dairy Ration.....	Chapin & Co.....	Hammond, Ind.....	25.92	28.00	6.43	5.00	52.95	50.00	6.0	.....	8.7	.....	8.92	11.0
Withmore Bal. Ration for Milch Cows.....	Chapin & Co.....	Hammond, Ind.....	26.97	28.00	6.02	5.50	52.11	50.00	5.6	.....	9.3	.....	11.12	11.0
Crosby's Quality Feed (Ready Ra- tion).....	Chas. M. Cox Co.....	Boston, Mass.....	24.34	25.50	5.12	5.20	56.54	.....	4.8	.....	9.2	.....	10.73	9.5
Crosby's Ready Ration.....	E. Crosby Co.....	Brattleboro, Vt.....	25.48	25.00	6.06	7.00	53.56	50.00	5.1	.....	9.8	.....	6.27	9.0
Grandin's Milk Maker.....	E. Crosby Co.....	Brattleboro, Vt.....	24.96	25.00	6.14	7.00	54.00	50.00	5.5	.....	9.4	.....	11.83	9.0
Grandin's Milk Maker.....	D. H. Grandin Milling Co.....	Jamestown, N. Y.....	23.21	22.50	5.35	4.00	57.82	50.00	4.7	.....	8.3	.....	12.22	13.0
Larroe's Big 6 Complete Dairy Ration.....	D. H. Grandin Milling Co.....	Jamestown, N. Y.....	26.44	22.50	5.10	4.00	53.16	50.00	5.0	.....	10.3	.....	8.02	13.0
Larro Feed.....	The Larroe Milling Co.....	Detroit, Mich.....	20.49	21.00	4.83	4.00	60.58	48.00	5.3	.....	8.8	.....	9.17	12.0
Larro Feed.....	The Larroe Milling Co.....	Detroit, Mich.....	21.14	20.00	3.99	3.00	62.77	50.00	5.0	.....	8.1	.....	12.69	14.0
Stevens 44 Dairy Ration.....	The Larroe Milling Co.....	Detroit, Mich.....	21.36	20.00	4.60	3.00	60.14	58.00	4.4	.....	9.5	.....	12.11	14.0
Stevens 44 Dairy Ration.....	The Park & Pollard Co.....	Boston, Mass.....	26.27	24.00	6.06	5.00	53.57	.....	5.3	.....	8.8	.....	13.69	14.0
Big Q Dairy Ration.....	The Park & Pollard Co.....	Boston, Mass.....	23.29	24.00	5.92	5.00	57.09	.....	4.7	.....	9.0	.....	12.61	14.0
Purina Chow Feed.....	Quaker Oats Co.....	Chicago, Ill.....	21.54	21.00	5.24	5.00	57.92	50.00	5.5	.....	9.8	.....	12.02	10.5
Union Grains (Ubioco) Bles Ready Dairy Ration.....	Ralston Purina Co., Inc.....	St. Louis & Buffalo, Cincinnati, Ohio.....	25.66	24.00	3.77	4.75	55.17	52.00	6.6	.....	8.8	.....	15.58	13.5
Union Grains (Ubioco).....	Ubioco Milling Co.....	Cincinnati, Ohio.....	24.34	24.00	6.6	7.00	55.96	50.00	5.2	.....	7.9	.....	12.75	10.0
Union Grains (Ubioco).....	Ubioco Milling Co.....	Cincinnati, Ohio.....	25.13	24.00	7.01	7.00	55.06	51.00	4.6	.....	8.2	.....	12.48	10.00

CERTIFIED COMPOSITION OF COMPOUNDED BRANDS.

Name.	Manufactured by.	Address.	Certified to Contain.
MOLASSES FEEDS. Clover Leaf Dairy Feed.....	Clover Leaf Milling Co.....	Buffalo, N. Y.	Cottonseed meal, corn, distillers' dried grains, mixed broken grains, consisting of wheat, corn, barley, speltz taken from grain screenings, cocoa shell meal, clipped oat by-product, molasses, $\frac{1}{2}$ of 1% salt.
International Planters Dairy Feed	International Sugar Feed Co.....	Minneapolis, Minn.	Cottonseed feed, ground delinted cottonseed hulls, molasses and salt.
International Ready Ration.....	International Sugar Feed Co.....	Minneapolis, Minn.	Cottonseed meal, molasses, ground clipped oat by-product, ground cleaned grain screenings, wheat bran, linseed oil meal.
International Special Dan Patch Horse Feed.....	International Sugar Feed Co.....	Minneapolis, Minn.	Oats, cracked corn, ground alfalfa, cane molasses, salt.
International Special Dairy Feed.	International Sugar Feed Co.....	Minneapolis, Minn.	Cottonseed meal, molasses, ground clipped oat by-product, salt, ground cleaned grain screenings.
Quaker Dairy Feed with Molasses	Quaker Oats Co.....	Chicago, Ill.	Molasses, corn, distillers' grains, ground grain screenings, cottonseed meal, palm kernel meal, tricalcium phosphate, oat meal mill by-product, oat middlings, oat hulls, oat short, $\frac{1}{2}$ of 1% salt.
Purina O-Molene Feed.....	Ralston Purina Co., Inc.....	St. Louis, Mo.	Cracked corn, oats, molasses, ground alfalfa, 1% salt.
POULTRY FEEDS. Queen Poultry Mash.....	The Albert Dickinson Co.....	Chicago, Ill.	Wheat, bran, wheat middlings, alfalfa meal, ground corn, bran, corn feed meal, linseed oil meal, meat scraps, salt $\frac{1}{2}$ of 1%.
Blatchford's Fill the Basket Egg Mash.....	Blatchford Calf Meal Factory.....	Waukegan, Ill.	Locust bean meal, unpressed flaxseed, wheat flour, rice polish, blood flour, barley and malt, sprout meal, ground beans and peas, old process oil meal, cocoa shell meal, coconut meal, re-cleaned cottonseed meal, Foenugreek dried milk.
Blatchford's Milk Mash.....	Blatchford Calf Meal Factory.....	Waukegan, Ill.	Blatchford's calf meal, also bone, corn and oat meals, wheat middlings, meat scraps, fish and powdered limestone.
Blatchford's Fill the Basket Egg Mash.....	Blatchford Calf Meal Factory.....	Waukegan, Ill.	Blatchford's calf meal, also alfalfa bone, corn and oat meals, wheat bran, wheat middlings, meat scraps, fish, carpsium and powdered limestone.
Inf-eco Poultry Mash.....	Buffalo Cereal Co.....	Buffalo, N. Y.	Ground corn, wheat bran and middlings, hominy feed, corn, gluten feed, oat middlings and rolled oats.
E. A. Cowen's Climax Poultry Mash.....	E. A. Cowen Co.....	Worcester, Mass.	Wheat bran, oats, barley, gluten, corn, meat and bone meal, fish scraps and salt, wheat middlings, alfalfa meal, linseed.

Poultry Mash.....	McQuesten & Lewis.....	Manchester, N. H.	Corn meal by-products, alfalfa meal, oil meal, gluten, bran, beef scraps and fish scraps.
"Lay or Bust" Dry Mash.....	Park & Pollard.....	Boston, Mass.	Corn, wheat, oats, barley, kafir corn, alfalfa, fish meal, bone, beet pulp, wheat screenings not exceeding mill run, calcium carbonate and salt.
Quaker Poultry Mash.....	The Quaker Oats Co.....	Chicago, Ill.	Meat scraps, oat meal, wheat bran with ground screenings not exceeding mill run, alfalfa meal, yellow hominy feed, corn gluten feed, ground grain screenings.
Schumacher Poultry Mash.....	The Quaker Oats Co.....	Chicago, Ill.	Meat scrap, oat meal, wheat bran, with grain screenings not exceeding mill run, alfalfa meal, yellow hominy feed, corn feed meal by-product, corn gluten feed, and ground grain screenings.
Purina Chicken Chowder Feed..	Ralston Purina Co., Inc.....	St. Louis, Mo.	Wheat bran, wheat middlings, corn meal, not over 1% salt, alfalfa meal, linseed meal, granulated meat charcoal.
Chic Chnk.....	Russia Cement Co.....	Gloucester, Mass.	Salt 2.00, bone containing calcium carbonate, calcium phosphate, from silica, etc., 30.00.
Stratton's Poultry Mash with Shell	Stratton & Co.....	Concord, N. H.	Ground oats, linseed oil meal, corn feed meal, meat scraps, wheat bran, wheat middlings, alfalfa meal and not over 3% shell.
Syracold Dry Mash.....	Syracuse Milling Co.....	Syracuse, N. Y.	Wheat bran and middlings with screenings, corn meal, corn gluten feed, linseed meal and Hen-E-ta (composed of phosphorus, silica, lime and soda).
Ti-O-Ga Laying Food.....	Tioga Mill and Elevator Co.....	Waverly, N. Y.	Wheat middlings, wheat bran, corn gluten meal, corn feed meal, kafir corn meal, hominy feed, meat and bone scrap, oats, barley, buckwheat.
Blue Seal Dry Mash for Poultry..	H. K. Webster Co.....	Lawrence, Mass.	Wheat feed, corn meal, gluten feed, rolled oats, beef scraps, beet pulp, oil meal and Hen-E-ta, bone composed of silica, lime and soda.
STOCK FEEDS.	Acme Evans Co.....	Indianapolis, Ind.	Corn, homik (corn feed meal), hominy meal, wheat bran, wheat middlings, oat feed, oat hulls, oat middlings and salt.
Acme Stock Feed.....	Portage Stock Feed.....	Akron, Ohio.	Corn, barley, oat shorts, oat hulls, oat middlings, and 1/2 of 1% salt.
Portage Stock Feed.....	The Albert Dickinson Co.....	Chicago, Ill.	Corn feed meal, ground corn bran, ground corn screenings, ground barley, oat meal mill by-products, oat middlings, oat hulls, oat shorts, wheat middlings, cottonseed meal 1/2 of 1% salt.
Stag Stock Feed.....	Ansted & Burk Co.....	Springfield, Ohio.	One-half wheat middlings, one-third corn, bran and meal, balance wheat bran and grain cleaned wheat screenings not to exceed mill run.
Ohio Farm Feed.....	E. W. Bailey & Co.....	Swanton, Vt.	Fine white hominy and oat by-products (oat middlings, hulls, and shorts) 1/2 of 1% salt.
Pennant Stock Feed.....	Buffalo Cereal Co.....	Buffalo, N. Y.	Ground oats, corn and barley, wheat middlings, hominy feed, oat shorts, oat middlings, oat hulls, linseed meal, corn gluten feed.
Bufeco Horse Feed.....	Buffalo Cereal Co.....	Buffalo, N. Y.	Ground corn and oats, hominy feed, oat shorts, oat middlings, oat hulls and 1/2 of 1% salt.
Bufeco Steam Cooked Feed.....			

Name.	Manufactured by.	Address.	Certified to Contain.
Bufceco Stock Feed.....	Buffalo Cereal Co.....	Buffalo, N. Y.	Ground corn, oats and barley, wheat middlings, corn gluten feed, hominy feed, oat shorts, oat middlings, oat hulls, $\frac{1}{2}$ of 1% salt.
Wirthmore Stock Feed.....	Chas. M. Cox Co.....	Boston, Mass.	Ground barley, oat meal mill by-product, oat middlings, oat shorts, $\frac{1}{2}$ of 1% salt.
Wirthmore Stock Feed.....	Chas. M. Cox Co.....	Boston, Mass.	Ground barley, ground oats, ground hominy meal, ground corn, oat meal mill by-products (oat middlings, oat hulls, oat shorts), $\frac{1}{2}$ of 1% salt.
Crawford's Stock Feed.....	Crawford Bros.....	Walton, N. Y.	Ground corn, hominy feed, corn germ meal, oat hulls, wheat bran, wheat middlings.
Stock Feed.....	John W. Eschelman.....	Lancaster, Pa.	Oat middlings, wheat middlings, rye middlings, cottonseed meal, ground grain screenings, corn meal, oat hulls, hominy feed.
Grandin's Stock Feed.....	D. H. Grandin Milling Co.....	Jamestown, N. Y.	Fine white hominy feed, corn gluten feed, oat meal mill by-products, oat middlings, oat hulls, oat shorts and salt.
Grandin's Stock Feed.....	D. H. Grandin Milling Co.....	Jamestown, N. Y.	Fine white hominy feed, corn gluten feed, oat meal mill by-products, oat middlings, oat hulls, oat shorts and salt.
Harvest Horse Feed.....	Hale & Edwards Co.....	Chicago, Ill.	Alfalfa, molasses, cracked corn, oats and barley.
Algrane Milk Feed.....	H-O Co.....	Buffalo, N. Y.	Oat hulls, wheat feed, cottonseed meal, oat shorts, corn gluten feed, ground corn, ground oats, ground grain screenings, molasses, clipped oats by-products, salt, $\frac{1}{2}$ of 1%.
Lucky Strike Stock Feed.....	Illinois Feed Mills.....	St. Louis, Mo.	Hominy feed, wheat middlings, cottonseed meal, corn meal from shelled corn, oat middlings, oat sugar starch and carbo., 67.00.
Domino (formerly) Stock Feed...	Novak Milling Co.....	Buffalo, N. Y.	Hominy feed, oat middlings, low grade flour, corn feed meal, oat hulls, $\frac{3}{4}$ of 1% salt.
Park & Pollard Stock Feed.....	Park & Pollard Co.....	Boston, Mass.	Ground corn, hominy feed, oat feed.
Buckeye Feed.....	Quaker Oats Co.....	Chicago, Ill.	Wheat mixed feed with ground screenings, not exceeding mill run; and rye shorts.
Schumacher Feed.....	Quaker Oats Co.....	Chicago, Ill.	Ground corn, hominy feed, corn feed by-products, ground barley, wheat flour, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, oat meal by-products, oat middlings, oat hulls, oat shorts, $\frac{1}{2}$ of 1% salt.
Purina Pig Chow.....	Ralston Purina Co., Inc.....	St. Louis, Mo.	Corn feed meal, alfalfa meal, molasses digester tankage, and 1% salt.
Emergency Horse Feed.....	St. Albans Grain Co.....	St. Albans, Vt.	Crimped oats, ground oats, hominy, oat meal by-products (oat middlings, oat shorts, oat hulls), $\frac{1}{2}$ of 1% salt.
Stock Feed.....	Stratton & Co.....	Concord, N. H.	Reground oat feed and yellow corn meal.

Blue Grass Valley Feed.....	A. Waller & Co.....	Henderson, Ky.	Winter wheat, bran, ground corn and cob.
Blue Seal Stock Feed.....	H. K. Webster Co.....	Lawrence, Mass.	Ground oats, kiln dried hominy feed, wheat, bran, linseed meal, not over 1/2 of 1% salt. Pure oat feed.
CALF MEALS.			
Blatchford's Calf Meal.....	Blatchford Calf Meal Factory.....	Waukegan, Ill.	Locust bean meal, unpressed flaxseed, wheat flour, blood flour, barley and malt sprouts, meal, ground beans and peas, rice polish, old process oil meal, cocoa shell meal, coconut meal.
Blatchford's Calf Meal.....	Blatchford Calf Meal Factory.....	Waukegan, Ill.	Locust bean meal, unpressed flaxseed, wheat flour, blood flour, barley and malt sprouts meal, ground beans and peas, rice polish, old process oil meal, cocoa shell meal, coconut meal, re-cleaned cottonseed meal, Foenugreek, dried milk, anise and salt.
International Grofast Calf Meal..	International Sugar Feed Co.....	Minneapolis, Minn.	Foenugreek seed, locust bean, linseed oil meal, cleaned grain screenings.
Schumacher Calf Feed.....	Quaker Oats Co.....	Chicago, Ill.	Oat meal, wheat meal, ground flaxseed, milk, albumen, cottonseed meal, and 1/2 of 1% bicarbonate of soda.
Ryde's Cream Calf Meal.....	Ryde & Co.....	Chicago, Ill.	Ground flaxseed, wheat flour, locust bean meal, re-cleaned cottonseed meal, blood flour, bean lentils, cocoa shell meal, hominy feed, Foenugreek, anise and salt.
DISTILLERS' AND BREWERS' GRAINS.			
Corby Dried Brewers' Grains.....	The Corby Co.....	Washington, D. C.	Barley, malt, rye, malt, malt sprouts, corn.
Bull Brand Dried Brewers' Grains	Farmers' Feed Co.....	New York	Dried yeast, grains from corn, barley, malt and sprouts.
Fleischmann's Dried Grains.....	The Fleischmann Co.....	Chicago, Ill.	Malt sprouts, dried brewers' grains, cottonseed meal, molasses, ground and bolted clipped oat by-product, cleaned ground and colted grain screenings, salt, corn gluten meal, cocoa shell meal.
Brownie Distillers' Grains.....	The Larrowe Milling Co.....	Detroit, Mich.	Ground corn, wheat bran and middlings, hominy feed, corn gluten feed, cottonseed meal, oat shorts, oat middlings, oat hulls, 1/2 of 1% salt.
DAIRY FEEDS.			
Arcady Dairy Feed.....	Arcady Farms Milling Co.....	Roundout, Ill.	Corn, distillers' grains, cottonseed meal, gluten feed, linseed meal, hominy meal, corn starch by-products with corn, bran, barley feed, malt sprouts, wheat, bran, copra meal, salt.
Buffere Creamery Feed.....	Buffalo Cereal Co.....	Buffalo, N. Y.	Choice cottonseed meal, linseed meal, gluten feed, fancy distillers' grains, bran, choice malt sprouts, hominy or corn meal, 3/4 of 1% salt.
Unicorn Dairy Ration.....	Chapin & Co.....	Hammond, Ind.	Distillers' dried grains, oil meal, cottonseed meal, malt sprouts, wheat bran, wheat middlings, hominy feed, and 1/2 of 1% salt.
Wirthmore Bal. Ration for Milch Cows.....	Chas. M. Cox Co.....	Boston, Mass.	
Crosby's Quality Feed (Ready Ration).....	E. Crosby Co.....	Brattleboro, Vt.	

Name.	Manufactured by.	Address.	Certified to Contain.
Grandin's Milk Maker.....	D. H. Grandin Milling Co.....	Jamestown, N. Y.	Linsseed oil meal, cottonseed meal, gluten feed, distillers' dried grains, brewers' dried grains, hominy feed, malt sprouts, wheat bran, wheat middlings and salt.
Larrowe's Big 6 Complete Dairy Ration.....	The Larrowe Milling Co.....	Detroit, Mich.	Linsseed oil meal, cottonseed meal, corn, gluten feed, dried distillers' grains (mainly from corn), hominy feed, wheat bran, wheat middlings, and $\frac{1}{2}$ of 1% salt, bran and middlings may contain ground screenings not exceeding mill run.
Larro-Feed.....	The Larrowe Milling Co.....	Detroit, Mich.	Cottonseed meal, corn, gluten feed, old process linsseed oil meal, dried beet pulp, standard wheat bran, standard wheat middlings, $\frac{1}{2}$ of 1% salt, bran and middlings may contain ground screenings not exceeding mill run.
Larrow-Feed (Ready Ration).....	The Larrowe Milling Co.....	Detroit, Mich.	Cottonseed meal, corn, gluten feed, dried distillers' grains (mainly from corn), dried beet pulp, standard wheat bran and wheat middlings may contain ground screenings not exceeding mill run.
Stevens 44 Dairy Ration.....	Park & Pollard Co.....	Boston, Mass	Oil meal, hominy meal, cottonseed meal, buckwheat middlings, wheat bran with mill run of screenings, gluten feed, brewers' grains, corn meal, cocount oil meal, pea meal, corn germ meal, distillers' grains, ground barley, wheat middlings and salt.
Purina Cow Chow Feed.....	Ralston Purina Co., Inc.....	St. Louis, Mo.	Cottonseed meal, brewers' dried grains, gluten feed from corn, ground alfalfa, molasses, 1% salt.
Union Grains (Ubico) Biles Ready Dairy Ration.....	Ubico Milling Co.....	Cincinnati, Ohio.	Fourex distillers' dried grains, choice cottonseed meal, old process linsseed meal, white wheat middlings, winter wheat bran, hominy meal, gluten feed, brewers' dried grains, barley, malt sprouts, $\frac{1}{2}$ of 1% salt.
Big (Q) Dairy Ration.....	Quaker Oats Co.....	Chicago, Ill.	Cottonseed meal, corn distillers' grains and solubles, corn gluten feed, old process linsseed oil meal, by-product from the manufacture of hominy and corn meal, white middlings and wheat bran with screenings, oat meal mill by-product (oat middlings, oat hulls, oat shorts), 1% salt.



