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New Hampshire Agricultural Experiment Station

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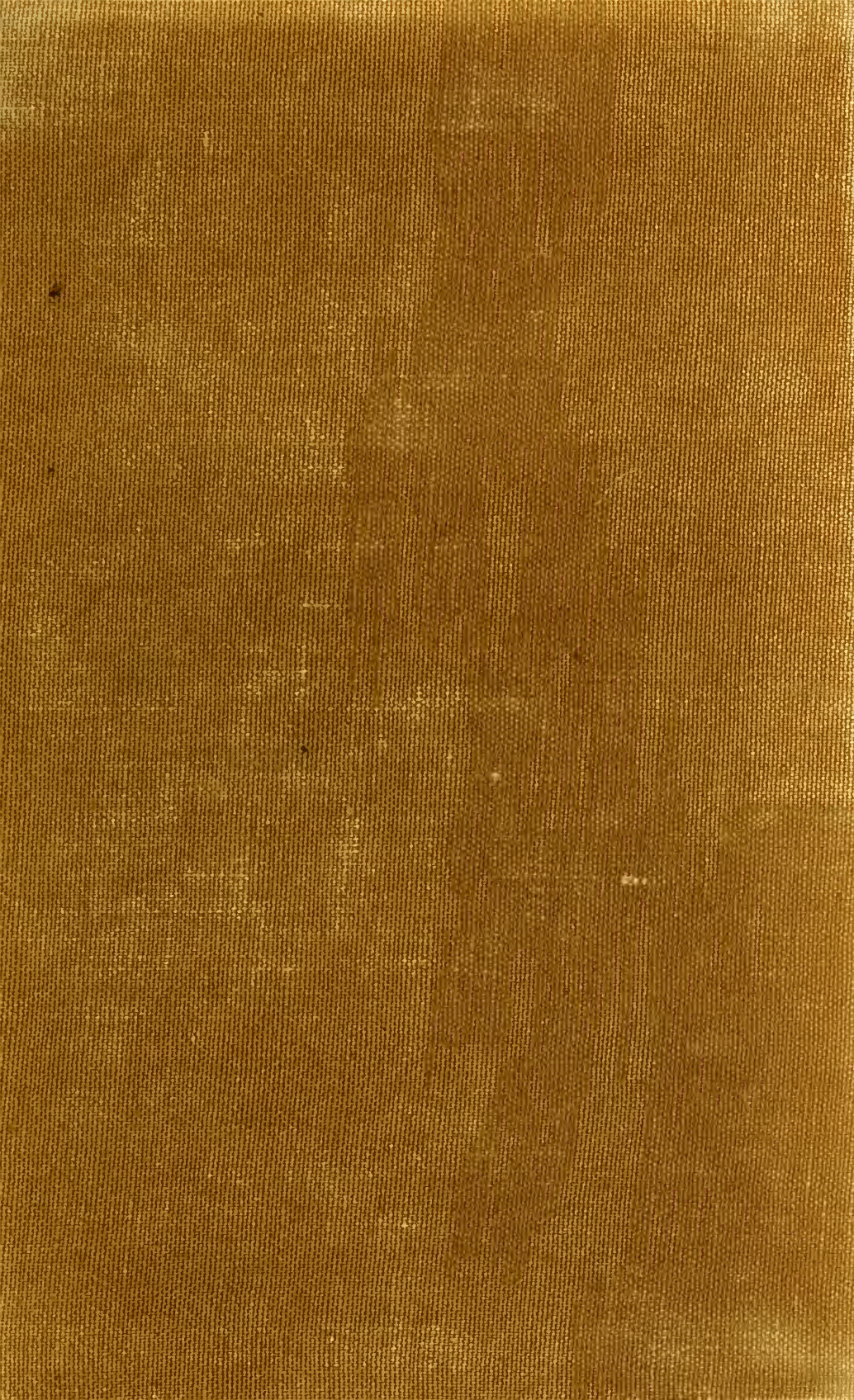
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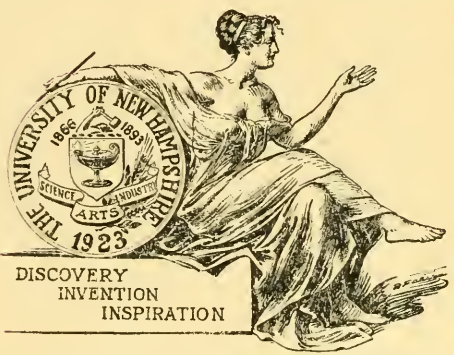


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Bulletin 184

August, 1917

NEW HAMPSHIRE  
AGRICULTURAL EXPERIMENT STATION  
DEPARTMENT OF CHEMISTRY

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# Analysis of Feeding Stuffs

MADE FOR THE  
STATE DEPARTMENT OF AGRICULTURE



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

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

## Feeding-Stuffs Inspection and Analyses, 1917.

The samples of the various brands of feeding-stuffs for the 1917 inspection were collected by Mr. A. G. Weeks, under the direction of Mr. A. L. Felker, Commissioner of Agriculture. Aside from duplicates, 302 samples were received and analyzed at the New Hampshire Experiment Station. Samples representing duplicates are not reported in this bulletin.

In this report a percentage valuation is given for the carbohydrates. The percentage of ash and moisture has been determined this year in addition to the determination of protein, fat and crude fiber which has been reported heretofore. The carbohydrate value includes the crude fiber as well as starches, sugar, etc. The crude fiber has a low digestibility and this should be kept in mind in making comparative or other valuations of a given sample of feed-stuff.

The percentage of carbohydrates is obtained by subtracting the sum of the percentage of protein, fat, ash, and moisture from 100 per cent.

A statement of the ingredients of the compounded feed-stuffs as certified by the manufacturers, will be found on pages 12 to 16.

Messrs. A. J. Grant, E. N. Sanders, F. A. Barker, H. C. Fogg, and P. B. Place have assisted in the preparation of the following data.

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

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.														
Middlings	Ansted & Burk Co.	Springfield, Ohio	14.98	15.00	4.19	5.00	65.83	58.00	4.25	.....	10.75	.....	.....	5.50
Mixed Feed	Ansted & Burk Co.	Springfield, Ohio	15.40	14.00	4.22	4.50	65.34	56.00	5.44	.....	9.60	.....	8.17	8.50
Standard Wheat Middlings	Alias Flour Mill	Milwaukee, Wis.	15.35	13.50	4.14	3.50	61.92	54.00	6.28	.....	10.00	.....	10.52	10.50
Bailey Fancy Feed	E. W. Bailey & Co.	Montpelier, Vt.	16.28	.....	4.19	.....	65.57	.....	5.03	.....	8.63	.....	8.50	8.50
Pennant Pure Winter Bran	E. W. Bailey & Co.	Montpelier, Vt.	15.76	14.50	4.06	4.00	62.08	.....	6.85	.....	11.25	.....	.....	10.00
Golden Link Wheat Flour	Baldwin Flour Mills	Minneapolis, Minn.	17.69	14.50	5.10	4.00	58.46	.....	9.91	.....	8.81	.....	.....	12.00
Golden Link Wheat Bran	Baldwin Flour Mills	Minneapolis, Minn.	17.12	16.50	5.19	5.00	62.09	.....	4.62	.....	10.98	.....	3.05	7.00
Golden Link Wheat Flour	Barber Milling Co.	Minneapolis, Minn.	17.51	18.00	4.69	5.00	61.56	.....	2.96	.....	10.28	.....	.....	4.00
Pancy Low Grade Flour	Barber Milling Co.	Minneapolis, Minn.	19.01	14.00	5.17	4.00	62.59	61.00	5.13	.....	8.10	.....	.....	10.00
Pure Wheat Middlings	Bozeman Milling Co.	Bozeman, Mont.	13.93	.....	5.11	.....	61.67	.....	5.14	.....	11.15	.....	.....	.....
Ceretana Bran	Bozeman Milling Co.	Bozeman, Mont.	18.48	14.50	3.29	3.75	62.27	50.00	5.72	.....	10.25	.....	8.72	12.00
Pure Wheat Bran & Screenings	Bowersock Mills & Power Co.	Lawrence, Kas.	16.31	15.00	4.80	4.50	62.49	.....	5.17	.....	11.20	.....	8.24	10.00
Wheat Standard Middlings	Catawba City Milling Co.	Niagara Falls, N. Y.	14.45	15.00	4.82	4.00	61.61	.....	6.40	.....	9.69	.....	10.37	10.00
Matchless Pure Wheat Bran	L. Christian & Co.	Minneapolis, Minn.	14.89	15.50	4.71	.....	61.87	.....	5.74	.....	12.79	.....	12.83	9.00
Dudley Wheat Bran	Chas. M. Cox Co.	Boston, Mass.	16.03	15.00	5.11	4.00	63.69	.....	5.29	.....	9.88	.....	.....	10.00
Monogram Fancy Pure Wheat Bran	Chas. M. Cox Co.	Boston, Mass.	16.10	14.50	5.01	4.00	63.83	50.00	4.32	.....	10.74	.....	6.87	7.00
Wirhmore Middlings	Chas. M. Cox Co.	Boston, Mass.	15.76	16.00	4.05	4.00	63.62	.....	4.99	.....	11.58	.....	8.00	7.00
Wirhmore Wheat Feed	Chas. M. Cox Co.	Boston, Mass.	15.76	16.00	4.92	3.00	64.93	54.00	4.74	.....	9.63	.....	.....	9.00
Rob Roy Feed	Wm. A. Coombs Milling Co.	Coldwater, Mich.	14.42	14.00	3.82	3.00	65.87	.....	6.60	.....	9.26	.....	.....	10.00
Wheat Bran	Wm. A. Coombs Milling Co.	Coldwater, Mich.	15.85	15.00	4.63	3.00	66.53	.....	4.72	.....	8.27	.....	.....	6.00
Wheat Middlings	Wm. A. Coombs Milling Co.	Coldwater, Mich.	15.76	15.50	4.64	3.82	65.94	.....	3.82	.....	10.44	.....	5.27	8.00
Tiger Middlings	Detroit Milling Co.	Detroit, Mich.	15.76	15.00	4.43	4.25	64.16	.....	5.14	.....	10.51	.....	9.00	9.75
Boston Mixed Feed	Duluth Superior Milling Co.	Duluth, Minn.	14.15	14.50	5.42	3.75	64.49	.....	5.75	.....	9.89	.....	10.21	12.25
Duluth Imperial Bran	Duluth Superior Milling Co.	Duluth, Minn.	17.50	16.75	5.45	4.25	30.83	.....	3.17	.....	10.05	.....	3.15	3.00
Red Dog	Duluth Superior Milling Co.	Duluth, Minn.	26.01	25.00	6.76	6.00	55.75	.....	4.50	.....	6.89	.....	11.27	10.00
Elmore's Milk Grains	Elmore Milling Co.	Oneonta, N. Y.	14.15	13.50	4.18	3.50	67.46	53.00	3.70	.....	10.51	.....	.....	8.50
Dairy Maid Winter Wheat Middlings	Federal Milling Co.	Lockport, N. Y.	17.69	14.00	3.91	3.50	64.07	52.00	4.74	.....	9.59	.....	.....	8.50
Lucky Spring Wheat Flour Middlings	Federal Milling Co.	Lockport, N. Y.	15.60	15.04	5.60	4.50	61.85	.....	4.45	.....	10.50	.....	8.13	9.50
Improved Grafton Wheat Feed	Grafton Roller Mill Co.	Grafton, N. Dak.	15.76	16.00	4.72	4.00	64.70	.....	5.64	.....	9.18	.....	7.50	7.50
Xiragood Mixed Feed	Grissold & Mackinnon.	St. Johnsbury, Vt.	15.33	15.00	4.28	.....	61.95	.....	4.74	.....	13.70	.....	7.64	9.00
Gwin's Dairy Feed	Gwin Milling Co.	Columbus, Ohio	16.99	.....	4.04	.....	65.75	.....	2.76	.....	10.48	.....	9.64	9.00
Gwin's Red Dog Flour	Gwin Milling Co.	Columbus, Ohio	14.63	15.00	3.83	.....	65.69	.....	6.25	.....	9.60	.....	10.32	10.00
Gwin's Wheat Bran	Gwin Milling Co.	Columbus, Ohio	16.12	16.00	5.27	4.00	64.34	.....	3.98	.....	10.29	.....	5.54	7.50
Gwin's Wheat Middlings	Gwin Milling Co.	Columbus, Ohio	16.12	16.00	5.27	4.00	64.34	.....	3.98	.....	10.29	.....	5.54	7.50

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.
<b>WHEAT FEEDS.—Continued.</b>														
Choice Wheat Bran.	Hecker, Jones, Jewell Milling Co.	Buffalo, N. Y.	15.50	14.00	4.42	4.25	62.09	52.50	6.86	11.63	8.29	8.60	11.50	Guaranteed.
Fancy White Middlings.	Hecker, Jones, Jewell Milling Co.	Buffalo, N. Y.	17.40	16.75	4.97	5.00	64.24	58.00	3.03	10.36	10.94	4.97	5.50	Found.
Mixed Feed.	Hecker, Jones, Jewell Milling Co.	Buffalo, N. Y.	16.60	15.00	4.93	5.25	61.93	54.00	5.00	10.34	10.68	8.97	9.25	Guaranteed.
Standard Middlings	Hecker, Jones, Jewell Milling Co.	Buffalo, N. Y.	13.48	16.50	5.58	6.00	60.13	52.30	5.13	10.68	11.00	8.50	8.50	Guaranteed.
Dreadnought Extra Coarse Wheat Bran	Hunter, Robinson, Wenz Milling Co.	St. Louis, Mo.	15.50	15.50	3.67	4.00	65.47	50.00	7.07	8.29	9.01	11.00	11.00	Guaranteed.
Standard Fine Middlings.	Hubbard Milling Co.	Mankato, Minn.	7.00	18.70	5.92	4.59	57.31	53.43	5.43	13.74	9.01	9.00	9.00	Found.
Anchor Pure Bran.	Kemper Mill & Elevator Co.	Kansas City, Mo.	17.78	14.50	3.87	4.00	62.01	53.50	7.16	9.19	11.82	10.00	10.00	Guaranteed.
Carnation Gray Middlings.	Kemper Mill & Elevator Co.	Kansas City, Mo.	17.86	16.00	4.24	4.30	60.76	56.25	5.32	11.82	9.00	8.00	8.00	Guaranteed.
Blue Tag Mixed Feed.	F. W. Kelley Co.	St. Johnsbury, Vt.	6.20	16.00	4.77	4.00	65.04	5.43	8.56	9.05	7.50	7.50	7.50	Guaranteed.
Snow Flake Mixed Feed.	Lawrenceberg Roller Mill Co.	Lawrenceberg, Ind.	15.76	15.20	4.54	4.30	64.60	6.04	9.05	10.15	9.86	8.00	8.00	Guaranteed.
Elmco Wheat Fancy Bran.	Listman Mill Co.	Lacrosse, Wis.	15.50	14.88	3.88	4.20	65.83	4.64	10.15	10.15	9.11	11.22	11.22	Guaranteed.
Elmco Wheat Fancy White Middlings & Screenings.	Listman Mill Co.	Lacrosse, Wis.	17.08	16.29	5.11	5.09	64.02	3.57	10.22	10.22	5.30	5.30	5.30	Guaranteed.
Elmco Wheat Red Dog Flour.	Listman Mill Co.	Lacrosse, Wis.	15.85	15.91	4.35	3.94	67.89	2.52	9.39	9.39	2.08	2.08	2.08	Guaranteed.
Elmco Wheat Standard Middlings & Screenings.	Listman Mill Co.	Lacrosse, Wis.	15.50	14.88	3.88	4.20	65.83	4.64	10.15	10.15	9.11	11.22	11.22	Guaranteed.
Fancy Canadian Middlings.	Maple Leaf Milling Co. Limited	Toronto, Canada.	16.29	16.00	5.63	5.50	62.18	4.80	11.10	11.10	7.99	10.00	10.00	Guaranteed.
Wheat Bran.	Maple Leaf Milling Co. Limited	Toronto, Canada.	15.76	15.50	4.97	4.00	60.89	5.12	13.26	13.26	12.00	12.00	12.00	Guaranteed.
Brooks Fancy Mixed Feed.	A. H. McLeod Milling Co.	St. Johnsbury, Vt.	15.59	16.00	4.41	4.00	65.58	6.06	8.36	8.36	9.00	9.00	9.00	Guaranteed.
Bran.	McQuisten & Lewis.	Manchester, N. H.	14.58	.....	3.39	.....	65.51	5.44	11.08	11.08	9.15	.....	.....	Guaranteed.
Middlings.	Moseley & Motley Milling Co.	Manchester, N. H.	14.54	.....	4.53	.....	66.19	2.82	11.92	11.92	9.15	.....	.....	Guaranteed.
Big B Mixed Feed.	National Milling Co.	Rochester, N. Y.	15.61	15.00	4.99	4.00	60.33	5.60	13.47	13.47	9.12	12.00	12.00	Guaranteed.
Highest Quality Premium Feed.	National Milling Co.	Toledo, Ohio	15.41	15.00	4.04	3.75	66.13	49.00	4.91	9.48	9.48	7.42	8.50	Guaranteed.
Choice Wheat Bran.	Niagara Falls Milling Co.	Niagara Falls, N. Y.	15.15	12.00	4.98	3.00	64.13	5.91	9.83	9.83	10.17	13.00	13.00	Guaranteed.
Osota Feed.	National Milling Co.	Toledo, Ohio	15.50	15.00	4.82	4.50	65.39	4.12	10.17	10.17	7.92	10.00	10.00	Guaranteed.
Pure Feed.	Northwestern Consol. Milling Co.	Minneapolis, Minn.	17.51	15.00	4.86	4.00	60.02	55.00	5.35	8.66	8.66	8.00	8.00	Guaranteed.
Pure Wheat Bran.	Northwestern Consol. Milling Co.	Minneapolis, Minn.	15.54	14.50	4.73	4.00	64.14	50.00	6.26	10.33	11.00	11.00	11.00	Guaranteed.
Fancy White Middlings.	Northwestern Consol. Milling Co.	Minneapolis, Minn.	16.73	15.50	5.12	4.50	64.26	57.00	4.47	9.42	11.00	11.00	11.00	Guaranteed.
Wheat Mixed Feed.	Northwestern Consol. Milling Co.	Minneapolis, Minn.	15.63	15.00	4.53	4.50	63.59	53.00	5.37	10.75	10.75	10.00	10.00	Guaranteed.
Wheat Standard Middlings.	Northwestern Consol. Milling Co.	Minneapolis, Minn.	15.03	15.00	4.88	4.50	64.85	53.00	5.00	9.24	9.24	9.25	11.00	Guaranteed.
XXX Cornet Pure Wheat Product	Northwestern Consol. Milling Co.	Minneapolis, Minn.	18.39	16.50	4.63	4.00	63.78	3.20	10.00	10.00	8.00	8.00	8.00	Guaranteed.
Wheat Middlings.	Ogilvie Flour Mills Co., Ltd.	Montreal, Canada.	16.85	15.00	4.81	5.00	63.86	3.83	10.65	10.65	7.00	8.00	8.00	Guaranteed.
Hominy Feed.	Patent Cereals Co.	Geneva, N. Y.	11.64	10.00	5.82	6.00	70.62	2.50	9.42	9.42	4.49	5.00	5.00	Guaranteed.
Pillsbury's Durum Wheat Bran.	Pillsbury Milling Co.	Minneapolis, Minn.	13.49	11.00	5.16	4.00	66.96	53.00	5.32	9.07	9.07	14.00	14.00	Guaranteed.
Pillsbury's Durum Wheat Standard B. Middlings.	Pillsbury Milling Co.	Minneapolis, Minn.	15.11	12.50	6.83	4.00	64.34	54.00	5.21	8.51	8.51	11.00	11.00	Guaranteed.



Feed Name	Manufacturer	Minneapolis, Minn.	15.94	14.00	4.23	4.00	61.83	53.00	4.96	13.54	9.80	10.00
Pillsbury Milling Co.	Minneapolis, Minn.	15.94	14.00	4.23	4.00	61.83	53.00	4.96	13.54	9.80	10.00	
Pillsbury Milling Co.	Minneapolis, Minn.	16.90	15.00	5.21	4.50	60.22	55.00	4.59	7.10	7.00	7.00	
Pillsbury's Wheat Bran	Minneapolis, Minn.	14.80	13.00	4.26	4.00	62.82	50.00	6.82	11.30	10.81	13.00	
Pillsbury's Wheat Standard B. Middings	Minneapolis, Minn.	16.46	14.00	4.88	4.00	62.88	52.00	5.82	9.96	8.37	11.00	
Pillsbury's XX Daisy	Minneapolis, Minn.	17.60	16.00	3.69	4.00	65.05	60.00	3.02	10.64	4.10	4.00	
Champion Mixed Feed	Minneapolis, Minn.	14.66	13.56	4.11	3.58	66.64	59.54	5.51	9.08	8.47	8.47	
Bran (Winter)	Philadelphia, Pa.	1.01	13.00	3.02	3.00	65.37	50.00	6.83	10.77	10.67	10.30	
Buckeye Feed	Chicago, Ill.	15.68	15.50	5.19	4.50	63.80	55.00	5.11	10.13	8.71	8.50	
Middings	Tekousha, Mich.	15.06	14.00	4.76	3.50	65.95	50.00	4.96	9.27	5.18	6.00	
Richardson Mixed Feed	Richardson, N. Dak.	15.59	16.70	4.07	3.70	65.41	50.00	5.00	9.93	6.58	9.20	
Four Middings	Minneapolis, Minn.	17.08	15.00	4.66	5.00	64.43	50.00	3.37	10.46	5.50	6.00	
Occident Wheat Feed	Minneapolis, Minn.	16.40	15.00	5.43	4.50	63.41	50.00	4.72	10.44	9.28	10.00	
Standard Middings	Minneapolis, Minn.	16.46	15.00	5.76	4.00	63.62	50.00	4.50	9.66	8.00	9.00	
Gold Mine Feed	Sheffield King Milling Co.	15.76	15.00	4.82	4.50	63.50	50.00	10.90	9.00	9.00	9.00	
Shredded Wheat Waste	Niagara Falls, N. Y.	11.21	10.00	2.62	1.50	76.88	50.00	1.84	7.45	2.00	2.00	
Pure Screenings	Shredded Wheat Co.	13.31	12.90	2.62	2.26	68.60	50.00	2.80	12.67	4.56	3.93	
Pure Wheat Bran	Southwestern Milling Co., Inc.	17.43	17.00	3.27	3.50	61.41	46.50	6.90	10.99	10.00	10.00	
Try-Me Winter Mixed Feed	Sparks Milling Co.	16.99	16.00	4.35	3.50	63.01	50.00	5.25	10.40	7.15	8.00	
Wheat Middings	Steeple Eye Flour Mill Co.	15.68	16.50	4.59	4.50	66.84	52.00	4.87	8.02	9.50	9.50	
Bran	F. W. Stock & Sons	14.71	14.00	3.87	3.00	64.38	50.00	6.27	10.87	10.00	10.00	
Middings	Hillsdale, Mich.	16.56	16.50	4.98	4.00	65.47	50.00	5.04	7.95	6.00	6.00	
Stag Flour	David Stott Flour Mills, Inc.	14.36	14.00	2.97	3.00	69.64	67.00	1.93	11.10	2.00	2.00	
Stott's Fine White Middings	Detroit, Mich.	15.33	15.00	4.77	4.50	66.08	60.00	3.35	10.47	4.87	6.00	
Stott's Heavy Mixed Wheat Feed	Detroit, Mich.	11.89	16.00	3.94	4.00	62.17	50.00	5.78	13.22	9.00	9.00	
Stott's Honest Mixed Feed	Detroit, Mich.	15.41	15.50	4.47	4.50	54.48	52.50	4.90	10.74	8.00	8.00	
Stott's Pure Winter Wheat Bran	Detroit, Mich.	15.22	14.00	3.92	4.50	63.38	51.50	6.55	10.93	10.50	10.50	
Spring Wheat Bran & Screenings	Detroit, Mich.	14.45	14.00	4.13	4.00	64.79	50.00	5.83	10.80	8.36	10.50	
Stott's Winner Feed	Detroit, Mich.	10.42	10.50	5.23	5.00	72.38	62.00	2.73	9.24	7.82	8.50	
Stratton & Co.'s Fancy Bran	Concord, N. H.	15.10	15.00	4.23	4.00	64.63	50.00	2.91	10.42	9.00	11.90	
Stratton & Co.'s Middings	Concord, N. H.	16.29	16.20	4.40	4.26	66.58	50.00	2.98	9.75	4.64	6.50	
Stratton & Co.'s Mixed Feed	Concord, N. H.	18.10	15.87	4.87	4.92	63.61	50.00	4.21	9.21	7.09	9.12	
Wheat Bran	Tennant & Hoyt Co.	14.89	14.00	4.46	4.00	60.90	50.00	4.74	14.01	10.44	11.00	
Angelus Wheat Bran	Thompson Milling Co.	15.24	13.00	4.22	4.00	64.55	50.00	6.55	9.44	14.00	14.00	
Angelus Wheat Middings	Thompson Milling Co.	16.46	13.00	4.76	4.00	65.36	50.00	3.75	9.67	14.00	14.00	
Angelus Wheat Mixed Feed	Thompson Milling Co.	15.94	13.00	4.76	4.00	65.46	50.00	4.95	9.49	14.00	14.00	
T. & C. Wheat Mixed Feed	Thornston & Chester Milling Co.	15.15	14.00	5.38	4.50	64.27	50.00	5.40	9.80	11.00	11.00	
Wheat Bran	George Urban Milling Co.	15.50	14.00	3.90	3.50	63.28	50.00	6.25	11.07	10.59	12.50	
Wheat Middings	George Urban Milling Co.	16.73	16.00	5.11	4.50	64.94	50.00	4.71	8.51	9.50	9.50	
Victor Spring Wheat Bran	Victor, N. Y.	11.80	14.00	5.02	4.00	64.75	51.00	5.98	9.45	15.00	15.00	
Victor Spring Wheat Middings	Victor, N. Y.	18.39	17.50	6.07	5.00	60.02	48.00	4.54	10.98	10.00	10.00	
Victor Spring Wheat Mixed Feed	Victor, N. Y.	15.24	15.00	5.74	4.50	63.33	50.00	4.90	10.19	10.00	10.00	
Pure Crescent Bran	Grand Rapids, Mich.	16.55	14.00	4.66	4.00	63.83	50.00	4.72	10.24	11.00	11.00	
Pure Crescent Middings	Grand Rapids, Mich.	15.85	14.50	3.41	3.50	64.69	50.00	4.47	11.58	10.00	10.00	
Voigt's Pure Bran	Grand Rapids, Mich.	14.19	15.00	3.23	3.50	66.35	50.00	6.06	10.11	11.00	11.00	
Voigt's Pure Cow Feed	Grand Rapids, Mich.	14.08	14.00	3.60	3.50	65.98	50.00	4.96	11.38	7.99	10.00	
Mill Run Bran Mixed Feed	Wagoner-Gates Milling Co.	16.50	15.50	4.01	4.00	65.48	50.00	5.57	8.44	8.08	10.00	



Name of Sample.	Manufactured by.	Address.	Protein.		Fat.		Carbo- hydrates.		Ash.		Moisture.		Fibre. Crude.	
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.
<b>WHEAT FEEDS.—Continued.</b>														
Washburn-Crosby Co.'s Adrian Red Dog Flour.....	Washburn-Crosby Co.....	Minneapolis, Minn...	17.34	16.00	5.25	4.00	64.52	60.00	3.51	.....	9.37	.....	3.50	4.00
Washburn-Crosby Co.'s Pure Rye Middlings.....	Washburn-Crosby Co.....	Minneapolis, Minn...	15.68	14.00	3.63	3.00	65.44	60.00	4.15	.....	11.10	.....	.....	6.00
Washburn-Crosby Co.'s Wheat Bran Washburn-Crosby Co.'s Wheat Bran Washburn-Crosby Co.'s Wheat Bran Washburn-Crosby Co.'s Wheat Standard Middlings.....	Washburn-Crosby Co.....	Minneapolis, Minn...	13.84	13.00	4.10	4.00	64.24	50.00	7.06	.....	9.36	.....	10.81	12.00
Blue Seal Wheat Feed.....	Washburn-Crosby Co.....	Minneapolis, Minn...	16.20	14.00	5.20	4.00	62.48	52.00	5.50	.....	10.62	.....	8.50	11.00
Spring Wheat Bran.....	H. K. Webster Co.....	Lawrence, Mass.....	15.94	16.00	4.73	4.00	63.15	.....	5.42	.....	10.76	.....	8.86	7.00
Hammond Dairy Feed.....	Western Canada Flour Mills Co. Western Grain Products Co.....	Davenport, Iowa..... Hammond, Ind.....	17.08 16.38	14.50 16.50	5.63 4.61	4.00 3.50	65.00 57.64	..... 48.00	5.25 9.03	..... .....	7.04 12.34	..... .....	7.99 14.26	11.00 12.00
<b>COTTON SEED MEALS.</b>														
Dove Brand Prime Cotton Seed Meal.....	F. W. Brode & Co.....	Memphis, Tenn.....	39.67	38.63	8.02	6.00	36.54	22.00	5.77	.....	10.00	.....	.....	10.00
Buckeye Good Cotton Seed Meal.....	Buckeye Cotton Oil Co.....	Cincinnati, Ohio.....	37.39	36.00	7.49	5.00	41.29	30.00	6.89	.....	6.89	.....	.....	14.00
The Veribest Brand Cotton Seed Meal.....	Buckeye Cotton Oil Co.....	Cincinnati, Ohio.....	39.49	38.62	6.94	6.00	42.89	.....	5.36	.....	5.32	.....	.....	12.00
East St. Louis Brand Cotton Seed Meal.....	S. P. Davis.....	Little Rock, Ark.....	41.42	38.50	5.90	6.00	40.05	.....	5.97	.....	6.66	.....	.....	10.00
Bull Brand Cotton Seed Meal.....	East St. Louis Cotton Oil Co. (Sold by) Farmington Cash Store	Nat. Stock Yards, Ill. Farmington, N. H.....	38.35	38.50	7.65	6.00	39.47	.....	6.46	.....	8.07	.....	.....	12.00
Danish Brand Cotton Seed Meal.....	Humphreys-Godwin Co.....	Memphis, Tenn.....	31.44	.....	7.57	6.00	48.91	.....	5.63	.....	6.46	.....	.....	.....
Dixie Brand Cotton Seed Meal.....	Humphreys-Godwin Co.....	Memphis, Tenn.....	40.11	41.00	7.24	6.00	37.70	26.00	6.46	.....	9.16	.....	9.90	10.00
Forfat Brand Cotton Seed Meal.....	Humphreys-Godwin Co.....	Memphis, Tenn.....	35.81	36.00	7.21	5.00	43.38	20.00	6.44	.....	7.13	.....	.....	15.00
Cotton Seed Meal.....	Humphreys-Godwin Co. (Sold by) C. S. Langley & Son	Memphis, Tenn..... Durham, N. H.....	38.61 36.08	38.62 38.55	7.71 6.27	6.00 6.00	37.78 43.07	24.00 24.00	5.95 6.23	..... .....	9.95 8.35	..... .....	.....	12.00
Kineta Prime Cotton Seed Meal.....	J. M. MacDonald.....	1914 Union Central Bldg., Cincinnati, O.	35.55	.....	7.26	.....	42.64	.....	5.67	.....	8.88	.....	15.01	.....
Dirigo Brand Cotton Seed Meal.....	W. Newton Smith.....	Baltimore, Md.....	39.49	38.60	6.78	6.00	40.94	22.00	4.71	.....	8.08	.....	12.60	12.00
Pilgrim Cotton Seed Meal.....	J. E. Soper Co.....	Boston Mass.....	31.09	38.50	5.60	7.00	50.02	.....	5.93	.....	7.36	.....	.....	10.50
Pioneer Cotton Seed Meal.....	J. E. Soper Co.....	Boston Mass.....	40.02	38.50	9.04	5.00	36.87	.....	6.56	.....	7.51	.....	.....	10.00
Puritan Cotton Seed Meal.....	J. E. Soper Co.....	Boston Mass.....	41.86	41.00	7.10	7.00	36.57	.....	5.89	.....	8.58	.....	.....	10.00
Number 7 Cotton Seed Feed Meal.....	Union Seed & Fert. Co.....	Boston Mass. New York, 27 Beaver St.	36.10	36.00	5.60	5.00	44.85	30.00	6.68	.....	6.77	.....	.....	15.00
Security Brand Cotton Seed Meal.....	Union Seed & Fert. Co.....	Pine Bluff, Ark.....	34.85	36.00	6.36	5.50	44.85	26.00	5.32	.....	8.62	.....	.....	14.00
American Red Tag Cotton Seed Meal.....	Union Seed & Fert. Co.....	Argenta, Ark.....	36.42	36.00	6.61	5.50	41.96	27.00	6.52	.....	8.48	.....	.....	14.00
Jersey Brand Cotton Seed Meal.....	Union Seed & Fert. Co. Lanier Bros.....	Nashville, Tenn.....	38.80 39.84	38.55 38.62	5.88 9.44	7.00 6.00	42.58 37.64	..... 22.00	5.38 6.97	..... .....	7.36 7.01	..... .....	12.00 .....	11.50 10.00



Name of Sample.	Manufactured by.	Address.	Protein.		Fat.		Carbo- hydrates.		Ash.		Moisture.		Fibre. Crude.	
			Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.	Found.	Guaranteed.
<b>POULTRY FEEDS.—Continued.</b>														
Schumacher Poultry Mash.....	The Quaker Oats Co.....	Chicago, Ill.....	18.00	17.50	4.68	4.00	61.10	52.00	5.54	.....	10.68	.....	9.47	10.00
Purina Chickens Cloverder Feed...	Ralston Purina Co., Inc.....	St. Louis & Buffalo.....	19.96	19.00	5.48	4.00	58.70	55.00	7.70	.....	8.16	.....	12.00	9.00
Stratton & Co.'s Egg Mash.....	Stratton & Co.....	Concord, N. H.....	16.73	15.00	4.94	3.00	61.08	55.00	5.22	.....	11.43	.....	8.15	10.00
Stratton & Co.'s H. Poultry Mash.....	Stratton & Co.....	Concord, N. H.....	19.18	16.00	6.90	4.00	59.15	.....	6.82	.....	7.95	.....	.....	.....
Dry Mash for Poultry.....	J. K. Webster Co.....	Lawrence, Mass.....	16.73	20.00	4.33	3.00	61.91	.....	18.16	.....	8.87	.....	6.14	10.00
<b>DAIRY FEEDS.</b>														
Empire State Dairy Feed.....	American Milling Co.....	Peoria, Ill.....	31.88	30.00	11.45	12.00	50.22	30.00	1.56	.....	4.89	.....	13.75	14.00
Lactola Dairy Feed.....	Chapin & Co.....	Hammond, Ind.....	17.08	16.50	5.47	3.00	58.37	50.00	6.02	.....	13.06	.....	11.67	12.00
Unicorin Dairy Ration.....	Chapin & Co.....	Hammond, Ind.....	27.67	26.00	7.36	5.50	52.06	50.00	4.96	.....	7.95	.....	14.05	10.00
Wirthmore Bal. Ration for Milch Cows.....	Chas. M. Cox Co.....	Boston, Mass.....	24.52	25.50	5.16	5.20	56.85	.....	4.59	.....	8.88	.....	10.93	9.50
Crosby's Ready Ration.....	B. Crosby & Co.....	Brattleboro, Vt.....	24.93	25.00	6.90	7.00	57.44	50.00	4.73	.....	6.00	.....	12.11	9.00
H. & S. Horse, Mule & Dairy Feed	Dwight E. Hamlin.....	Pittsburgh, Pa.....	16.33	.....	4.34	.....	62.94	.....	6.70	.....	9.69	.....	12.41	.....
Larro Feed.....	The Larrore Milling Co.....	Detroit, Mich.....	20.93	20.00	3.60	3.00	60.08	50.00	4.01	3.00	11.38	.....	13.40	14.00
The H. O. Co.'s Algraine Milk Feed	H. O. Mills.....	Buffalo, N. Y.....	17.00	14.00	3.86	4.00	64.76	.....	5.81	.....	8.57	.....	14.42	10.00
Stevens 44 Dairy Ration.....	Oswego Mill Co. (by) The Park & Pollard Co.....	Boston, Mass.....	24.80	24.00	7.40	5.00	53.36	.....	5.75	.....	8.69	.....	12.67	14.00
Protina Dairy Feed.....	Ralston Purina Co., Inc.....	St. Louis & Buffalo.....	14.80	.....	4.35	.....	61.88	.....	8.00	.....	10.97	.....	14.02	.....
R-E-A-L a bal. Ration for Dairy Cows.....	F. B. Spaulding Co.....	Lancaster, N. H.....	24.69	24.00	5.97	6.00	56.37	50.00	4.63	.....	8.44	.....	9.97	6.00
Union Grains (Union) Bites Ready Dairy Ration.....	The Ubico Milling Co.....	Cincinnati, Ohio.....	25.04	24.00	7.64	7.00	53.24	50.00	5.84	.....	8.24	.....	10.15	9.00
<b>MISCELLANEOUS COMPOUND- ED FEEDS.</b>														
Portage Stock Feed.....	The Akron Feed & Milling Co.....	Akron, Ohio.....	9.19	10.00	4.90	4.00	73.17	.....	3.82	.....	8.92	.....	12.65	10.00
Pennant Stock Feed.....	E. W. Bailey & Co.....	Swanton, Vt.....	11.60	10.00	5.88	6.50	69.15	.....	3.94	.....	9.43	.....	9.56	10.00
Rufesco Stock Feed.....	Buffalo Cereal Co.....	Buffalo, N. Y.....	10.61	10.00	5.03	5.00	72.67	.....	4.53	.....	7.16	.....	13.79	10.00
Rufesco Horse Feed.....	Buffalo Cereal Co.....	Buffalo, N. Y.....	11.30	11.00	4.00	4.00	72.02	.....	3.52	.....	9.16	.....	11.22	9.00
Corno Stock Feed.....	Corno Mills Co.....	St. Louis, Mo.....	8.81	9.00	6.57	3.50	69.64	6.00	4.17	.....	10.78	.....	12.97	10.00
Charlestock Feed.....	Chas. M. Cox Co.....	Boston, Mass.....	9.54	6.00	5.57	3.00	72.17	.....	3.94	.....	8.78	.....	13.75	16.00
Wirthmore Stock Feed.....	Chas. M. Cox Co.....	Boston, Mass.....	10.68	9.00	5.32	4.00	71.57	60.00	4.43	.....	8.00	.....	9.80	9.50
Crosby's Stock Food.....	F. Crosby & Co.....	Brattleboro, Vt.....	10.16	9.00	5.13	4.00	72.37	60.00	3.67	.....	8.67	.....	12.32	10.00
Quality Stock Feed.....	J. Cushing & Co.....	Pittsburg, Mass.....	9.19	9.00	7.80	6.00	73.33	61.00	3.36	.....	6.32	.....	9.07	9.00
Stock Feed.....	John W. Eschelmann.....	Lancaster, Pa.....	10.68	10.00	4.49	3.00	69.75	.....	4.49	.....	10.18	.....	10.39	9.00
Grandin's Stock Food.....	D. H. Grandin Milling Co.....	Jamestown, N. Y.....	9.37	8.50	6.40	4.00	70.57	50.00	3.76	.....	9.90	.....	11.30	13.00
Haskell's Stock Feed.....	W. H. Haskell & Co.....	Toledo, Ohio.....	10.94	9.00	6.67	6.00	69.85	61.00	3.38	.....	9.16	.....	9.42	9.00



MISCELL. FEEDS.—Continued.	Indiana Milling Co.	Terre Haute, Ind.	12.08	12.00	3.59	3.00	69.69	5.07	9.57	17.66	16.00	
Holstein Feed.	Indiana Milling Co.	Terre Haute, Ind.	9.89	10.00	2.96	3.00	72.51	4.74	9.90	16.15	16.00	
Herling Feed.	Il. O. Mills.	Buffalo, N. Y.	10.51	9.00	4.66	4.00	73.25	5.16	6.42	11.38	10.00	
The H. O. Co.'s New England Stock Feed.	The Park & Pollard Co.	Boston, Mass.	9.15	9.00	3.47	1.50	73.72	2.65	11.01	11.41	12.00	
The Park & Pollard Co. Stock Feed	The Quaker Oats Co.	Chicago, Ill.	10.24	10.00	3.81	3.25	72.83	3.72	9.40	12.44	10.00	
Schumacher Stock Feed.	The Quaker Oats Co.	Chicago, Ill.	9.59	8.00	3.32	3.00	74.22	3.11	9.81	11.17	12.00	
Victor Feed.	The Quaker Oats Co.	Chicago, Ill.	9.44	8.00	2.28	3.25	74.00	2.51	11.72	9.00	9.00	
White Diamond Feed.	A. Waller & Co.	Henderson, Ky.	10.51	9.00	2.38	2.00	71.77	4.00	11.34	17.22	17.00	
Blue Grass Valley Feed.												
ALFALFA AND CLOVER MEALS.	Joseph Breck & Sons Corp.	Boston, Mass.	8.14	7.91	2.16	3.36	73.86	7.41	8.43	29.84		
Banner Brand Cut Clover.	The Denver Alfalfa Milling & Products Co.	Chicago, Ill.	16.50	12.00	1.50	65.33	9.00	9.00	7.67	32.00	35.00	
Alfalfa Meal.	The Albert Dickinson Co.	St. Louis, Mo.	15.41	14.00	2.06	1.00	63.94	8.92	9.07	35.00	35.00	
Pure Alfalfa Meal.	National Feed Co.	Boston, Mass.	15.54	14.00	2.43	1.25	65.35	8.35	8.33	29.55	33.00	
Alfalfa	The Park & Pollard Co.	San Francisco, Cal.	14.28	12.00	2.08	15.00	67.92	9.71	6.01	30.00	30.00	
Red Star Brand Alfalfa Meal.	Somers & Co., 240 Cal. St.	San Francisco, Cal.	16.90	15.00	2.73	1.40	67.35	5.75	7.27	29.50	29.50	
Otto Weiss Alfalfa Meal.	The Otto Weiss Alfalfa Stock Food Co.	Wichita, Kas.	14.30	14.00	1.80	1.50	67.04	35.00	8.57	33.71	30.00	
CALF MEALS.												
Blatchford's Calf Meal.	Blatchford Calf Meal Factory.	Waukegan, Ill.	24.37	24.00	5.55	5.00	54.51	51.00	5.48	10.19	6.18	6.75
Schumacher Calf Meal.	The Quaker Oats Co.	Chicago, Ill.	20.14	19.00	7.98	8.00	59.21	4.14	8.53	3.00	3.00	3.00
Ryde's Cream Calf Meal.	Ryde & Co.	Chicago, Ill.	23.03	25.00	4.97	5.00	55.54	5.69	10.77	8.64	6.00	6.00
DRIED BEET PULP.												
Dried Beet Pulp.	The Larrowe Milling Co.	Detroit, Mich.	10.61	8.00	0.43	0.50	80.05	58.00	2.97	5.94	18.97	20.00
Dried Beet Pulp.	Mononice River Sugar Co.	Mononice, Mich.	7.62	8.00	0.41	0.50	80.25	58.00	3.12	2.50	19.19	20.00
Dried Beet Pulp.	West Bay City Sugar Co.	Bay City, Mich.	9.72	8.00	0.33	0.50	83.19	3.25	2.50	3.51	20.00	
Dried Beet Pulp.	Chas. Pope.	Chicago, Ill.	9.10	8.00	0.89	0.50	68.25	50.00	4.64	9.11	19.52	20.00
Dried Beet Pulp.	Michigan Sugar Co.	Saginaw, Mich.	9.72	8.00	0.97	0.50	77.55	58.00	3.01	2.50	18.15	20.00
Dried Beet Pulp.	Michigan Sugar Co.	Sebewaing, Mich.	10.16	8.00	0.68	0.50	74.80	58.00	2.87	2.50	11.49	20.00
Dried Beet Pulp.	Continental Sugar Co.	Blissford, Mich.	8.52	8.00	0.50	0.50	74.42	58.00	2.66	2.50	12.43	20.00
Dried Beet Pulp.	The Hottellet Co.	Milwaukee, Wis.	8.23	8.00	0.48	0.50	76.30	60.00	2.56	12.43	19.10	20.00
Dried Beet Pulp.	Michigan Sugar Co.	Bay City, Mich.	9.37	8.00	0.51	0.50	76.66	58.00	2.67	2.50	10.57	20.00
Dried Beet Pulp.	Michigan Sugar Co.	Saginaw, Mich.	8.80	8.00	0.96	0.50	71.16	58.00	2.63	2.50	17.60	20.00
Dried Beet Pulp.	Owosso Sugar Co.	Owosso, Mich.	10.33	8.00	0.47	0.50	79.98	58.00	2.91	6.31	18.97	20.00
Dried Beet Pulp.	Holland-St. Louis Sugar Co.	Decatur, Ind.	9.63	8.00	0.35	0.50	80.34	58.00	3.50	2.50	18.00	20.00
Dried Beet Pulp.												
BREWERS' AND DISTILLERS' GRAINS.												
Ajax Flakes.	Ajax Milling & Feed Co.	H Hammond, Ind.	32.23	30.00	10.17	10.00	48.34	30.00	2.39	6.87	17.82	14.00
Burkhardt's Dried Grains.	Burkhardt	Roxbury Sta., Mass.	25.04	25.00	5.71	5.00	59.62	2.86	6.77	18.80	15.00	
Bourbon D3 Dewey's Dist. Dried Grains.	The Dewey Bros. Co.	Blanchester, Ohio	24.26	24.00	9.16	8.00	57.32	40.00	3.29	5.97	14.86	14.00
Dewey's Dist. Dried Grains Corn D3.	The Dewey Bros. Co.	Blanchester, Ohio	26.27	26.00	10.70	9.00	58.00	30.00	4.12	8.11	13.57	13.00

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.
<b>BREWERS' GRAINS.—Continued.</b>														
Eagle D3 Dewey's Distillers' Dried Grains	The Dewey Bros. Co.	Blanchester, Ohio.	30.21	27.20	13.12	6.30	47.58	55.30	1.75	3.86	7.34	7.34	9.57	13.00
Bull Brand Dried Brewers' Grains	Farmers' Feed Co.	New York, N. Y.	29.33	20.20	5.70	7.00	62.64		2.38		6.84	6.84	14.99	15.20
Fleischmann's Dried Grains, F. M. Co.	The Fleischmann Co.	Peekskill, N. Y.	20.23	20.00	7.91	7.00	62.64		2.38		6.84	6.84	17.07	19.00
Brewers' Grains	Haffenreifer & Co.	Boston, Mass.	27.32	20.50	5.61	4.00	58.15		3.52		5.84	5.84	13.88	19.00
Hector Distillers' Dried Grains	The Hotelet Co.	Milwaukee, Wis.	32.14	30.00	9.15	10.00	48.76		1.61		8.34	8.34	12.66	14.00
Holstein Brewers' Dried Grains	The Hotelet Co.	Milwaukee, Wis.	25.66	25.00	6.72	5.00	56.52		3.88		7.72	7.72	14.83	14.00
Fourex Dist. Dried Corn Grains	The Ubeco Milling Co.	Cincinnati, Ohio.	29.16	31.00	10.88	12.00	45.07		3.70		11.09	11.09	12.13	13.00
<b>GLUTEN FEEDS.</b>														
Cream of Corn Gluten Feed	American Maize Products Co.	New York, N. Y.	20.49	24.00	2.91	1.50	66.00		3.01		7.59	7.59	8.12	8.00
Clinton Corn Gluten Feed	Clinton Sugar Refining Co.	Clinton, Iowa	24.75	23.00	3.17	3.00	60.85		1.67		9.56	9.56	8.34	8.00
Continental Gluten Feed	Continental Cereal Co.	Peoria, Ill.	28.98	29.00	11.85	10.00	50.07		4.02		5.08	5.08	6.07	10.00
Buffalo Corn Gluten Feed	Corn Products Refining Co.	New York, N. Y.	25.41	23.00	3.66	1.00	57.72		5.44		8.34	8.34	8.15	8.50
Crescent Corn Gluten Feed	Corn Products Refining Co.	New York, N. Y.	28.88	23.00	2.22	1.00	54.86		3.41		10.63	10.63	7.83	8.50
Diamond Corn Gluten Meal	Corn Products Refining Co.	New York, N. Y.	42.91	40.00	0.89	1.00	48.95		1.40		5.85	5.85	3.75	8.50
Globe Corn Gluten Feed	Corn Products Refining Co.	New York, N. Y.	24.78	23.00	3.10	1.00	58.65		3.54		9.93	9.93	8.13	8.50
Douglas Corn Gluten Feed	Douglas Company	Cedar Rapids, Iowa	24.91	23.00	0.90	1.00	58.44	52.00	4.77		10.98	10.98	6.77	8.00
Jenks' Corn Gluten Feed	The Huron Milling Co.	Harbor Beach, Mich.	24.34	22.00	2.95	3.00	63.95		2.77		6.19	6.19	9.28	8.00
Staley's Corn Gluten Feed	A. E. Staley Mfg. Co.	Decatur, Ill.	24.43	23.00	2.85	2.50	60.56		4.01		8.15	8.15	9.16	12.00
<b>FLAXSEED MEALS.</b>														
Anco Old Process Linseed Meal	American Milling Co.	Peoria, Ill.	31.53	30.00	7.00	5.00	46.21		6.06		9.20	9.20	10.00	
Linseed Oil Meal	American Linseed Co.	Chicago, Ill.	37.65	36.00	3.40	2.00	43.96		5.41		9.58	9.58	9.00	
Old Process Linseed Oil Meal	American Linseed Co.	Buffalo, N. Y.	36.16	34.00	6.06	5.00	43.56		5.10		9.12	9.12	8.00	
Old Process Oil Meal	The Toledo Seed & Oil Co.	Toledo, Ohio	34.15	30.00	6.52	5.00	44.27		5.56		9.50	9.50	8.99	10.00
Pure Old Process Oil Meal	American Linseed Co.	New York, N. Y.	34.06	34.00	6.93	5.00	42.41		5.95		11.65	11.65	7.00	8.00
Pure Old Process Oil Meal	Spencer Kellogg & Sons, Inc.	Buffalo, N. Y.	35.99	33.00	6.12	5.00	43.15		5.46		9.28	9.28	9.16	10.00
Old Process Ground Oil Cake	Archer Daniels Linseed Co.	Buffalo, N. Y.	32.40	33.00	7.80	6.00	46.82		4.14		8.84	8.84	9.38	10.00
<b>MEAT AND BONE FEEDS.</b>														
Ground Meat Scraps A.A.	The Am. Agri. Chem. Co.	New York, N. Y.	49.74	45.00	11.42				33.87		9.94	9.94		
Purox Pure Ground Meat Scraps A.A.	The Am. Agri. Chem. Co.	New York, N. Y.	55.69	55.00	13.00	10.00			25.47		6.37	6.37		
Fish Scraps	American Glue Co.	Boston, Mass.	50.00	50.00	1.32	2.00			3.75		8.22	8.22		

MEAT AND BONE FEEDS.—Cont.									
Beach's Star Brand Meat & Bone Meal	Beach Soap Co.	Lawrence, Mass.	30.29	30.00	8.84	10.00	47.78	8.48	
Beach's Star Brand Pure Bone Meal	Beach Soap Co.	Lawrence, Mass.	10.59	10.00	7.69	8.00	72.39	2.40	
Beach's Superior Beef Scraps	Beach Soap Co.	Lawrence, Mass.	52.45	50.00	16.75	15.00	22.40	8.74	
Beef Scraps	Beach Soap Co.	Lawrence, Mass.	41.70	40.00	13.46	10.00	18.12	9.05	
Breck's Dry Ground Fish Meal for Poultry Food	Jos. Breck & Sons Corp.	Boston, Mass.	52.10	45.00	1.56	2.50	30.00	31.42	10.99
Breck's Ground Beef Scraps	Jos. Breck & Sons Corp.	Boston, Mass.	43.52	43.00	12.34	12.00	28.72	8.72	
Burlington Poultry Feed	Burlington Rend. Co.	Burlington, Vt.	37.21	40.00	10.19	8.00	36.30	6.32	
Butchers' Poultry Feed	Butchers' Rend. Co.	Fall River, Mass.	47.79	40.00	11.07	10.00	32.59	7.32	
Darling's Meat Crisps	Darling & Co.	Chicago, Ill.	76.62	75.00	7.31	5.00	11.02	8.17	
Ground Beef Scraps	John C. Dow Co.	Boston, Mass.	47.63	43.00	13.68	12.00	2.84	8.70	
Greene's Meat Mash for Poultry	The Greene Chicken Feed Co.	Marblehead, Mass.	12.26	12.00	4.93	3.00	15.66	7.79	6.90
Greene's Old Fashioned Meat Scraps for Poultry	The Greene Chicken Feed Co.	Marblehead, Mass.	30.03	35.00	7.37	5.00	39.08	14.79	
Greene's Poultry Scraps	The Greene Chicken Feed Co.	Marblehead, Mass.	24.43	40.00	8.77	3.00	56.33	8.54	
Meat Scraps	W. D. Higgins	Framingham, Mass.	39.67	40.00	16.02	12.00	3.19	6.32	
Bone & Meat Meal	Hinckley Rend. Co.	Somerville, Mass.	38.26	35.00	9.76	8.00	4.25	6.09	
Red Star Brand Fish Scraps	International Glue Co.	Boston, Mass.	47.54	45.00	1.25	2.00	12.62	7.62	
Peerless Poultry Feed	Lowell Rend. Co.	Lowell, Mass.	49.83	40.00	11.10	8.00	25.68	5.57	
Manchester Bone & Meat Meal for Poultry	Manchester Rend. Co.	Manchester, N. H.	35.00	35.00	12.92	8.00	36.99	7.94	
Cracked Bone for Poultry	Manchester Rend. Co.	Manchester, N. H.	25.74	20.00	6.31	5.00	5.96	7.05	
Manchester Poultry Feed	Manchester Rend. Co.	Manchester, N. H.	45.80	40.00	10.80	8.00	32.92	11.26	
Marsh's Pure Ground Scraps for Poultry	The Geo. E. Marsh Co.	Lynn, Mass.	41.59	40.00	10.38	10.00	34.50	9.13	
Blue Ribbon Meat Scraps	The Park & Pollard Co.	Boston, Mass.	45.88	45.00	12.39	13.00	4.47	10.46	
Portland Bone Meal	Portland Rend. Co.	Portland, Me.	22.77	20.00	5.73	5.00	59.78	7.46	
Portland Cracked Bone for Poultry	Portland Rend. Co.	Portland, Me.	22.77	10.00	4.95	5.00	59.96	5.96	
Portland Poultry Feed	Portland Rend. Co.	Portland, Me.	40.19	40.00	10.59	8.00	37.99	5.57	
Shay's Beef Scraps	C. M. Shay Co.	Groton, Conn.	42.56	40.00	13.62	10.00	31.94	6.94	
Whitman & Pratt's Animal Meal	Whitman & Pratt Rend. Co.	Lowell, Mass.	35.90	33.00	9.57	10.00	35.50	16.31	
Whitman & Pratt's Beef Scraps	Whitman & Pratt Rend. Co.	Lowell, Mass.	48.51	45.00	10.29	10.00	32.72	7.73	
J. Cushing & Co. Poultry Feed	Worcester Rend. Co.	Auburn, Mass.	43.95	40.00	12.60	8.00	97.03	7.05	
Royal Worcester Poultry Feed	Worcester Rend. Co.	Auburn, Mass.	43.17	40.00	11.59	8.00	31.47	6.54	
OAT FEEDS.									
Oat Feed	Robin Hood Mills, Ltd.	Moose Jaw, Can., etc.	6.66	5.25	2.89	2.50	5.30	8.44	26.64
Purity Reground Oat Hulls	Purity Oats Co.	Davenport, Iowa	9.89	6.73	2.11	2.71	77.88	5.92	28.66
PROVENDERS.									
Provender	J. C. Richardson	Littleton, N. H.	10.86	.....	3.90	.....	3.14	11.71	5.81
Provender	Moulton & Clark	Lisbon, N. H.	10.59	.....	4.33	.....	2.73	9.57	6.16
Stratton & Co.'s Provender	Stratton & Co.	Concord, N. H.	11.03	.....	5.31	.....	2.94	12.83	6.94



## CERTIFIED COMPOSITION OF COMPOUNDED BRANDS.

Name.	Manufactured by.	Address.	Certified to Contain.
<b>MOLASSES FEEDS.</b>			
Sucrene Dairy Feed.....	American Milling Co.....	Peoria, Ill.	Molasses, cottonseed meal, corn, gluten feed, ground and bolted grain screenings, clipped oat by-product, corn, dried grains and salt.
Clover Leaf Dairy Feed.....	Clover Leaf Milling Co.....	Buffalo, N. Y.	Cottonseed meal, corn, gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, speltz taken from grain screenings, cocoa shell meal, clipped by-product, molasses, $\frac{1}{2}$ of 1% salt.
Corno Sweet Feed.....	The Corno Mills Co.....	St. Louis, Mo.	Whole oats, ground alfalfa, cracked corn, cottonseed meal, molasses.
International Special Dairy Feed..	International Sugar Feed Co.....	Minneapolis, Minn.	Cotton seed meal molasses, ground clipped oat by-product, salt, ground cleaned grain screenings.
International Special Dan Patch Horse Feed.....	International Sugar Feed Co.....	Minneapolis, Minn.	Oats, barley, cracked corn, ground alfalfa, cane molasses, and salt.
The Park & Pollard Co. Horse Feed .....	The Park & Pollard Co.....	Boston, Mass.	Alfalfa, corn, oats, molasses, salt.
Quaker Dairy Feed with Molasses..	The Quaker Oats Co.....	Chicago, Ill.	Molasses, malt sprouts, cottonseed meal, ground grain screenings, new process linseed oil meal, oatmeal mill by-product, oat middlings, oat hulls, oat shorts, $\frac{1}{2}$ of 1% salt.
Purina Cow Chow Feed.....	Ralston Purina Co., Inc.....	St. Louis, Mo.	Cottonseed meal, gluten feed, brewers' grain, molasses, ground alfalfa, 1% salt.
Purina Feed with Molasses.....	Ralston Purina Co., Inc.....	St. Louis, Mo.	Cracked corn, oats, ground alfalfa, molasses, 1% salt.
Purina O-Molene Feed.....	Ralston Purina Co., Inc.....	St. Louis, Mo.	Corn, oats, ground alfalfa meal, molasses, 1% salt.
Purina Sweet Feed.....	Ralston Purina Co., Inc.....	St. Louis, Mo.	Ground alfalfa, molasses, 1% salt.
Xtra-Vim Feed .....	Xtravim Molasses Feed Co.....	Boston, Mass.	Pure cane sugar, molasses, sphagnum moss.
<b>POULTRY FEEDS.</b>			
Globe Egg Mash.	The Albert Dickinson Co.....	Chicago, Ill.	Wheat bran, wheat middlings, alfalfa meal, corn, bran, corn feed meal, linseed oil cake, meat scraps, $\frac{1}{2}$ of 1% of salt.
Queen Poultry Mash.....	The Albert Dickinson Co.....	Chicago, Ill.	Alfalfa meal, corn feed meal, wheat meal, ground corn, bran, wheat bran, meat scraps, linseed oil cake, $\frac{1}{2}$ of 1% salt.
Blatchford's Milk Mash.....	Blatchford Calf Meal Factory.....	Waukegan, Ill.	Blatchford's calf meal, also bone, corn and oat meals wheat middlings beef scrap, fish and powdered limestone.
Bufoeco Poultry Mash.....	Buffalo Cereal Co.....	Buffalo, N. Y.	Ground corn, wheat bran, middlings, hominy feed, corn, gluten feed, oat middlings, rolled oats.
Wirthmore Growing Feed (with scraps) .....	Chas. M. Cox Co.....	Boston, Mass.	Ground wheat, corn, oats, barley, peas, maize, beet pulp, wheat middlings salt, choice fine ground beef scraps.

Wirthmore Poultry Mash (all grain).....	Chas. M. Cox Co.....	Boston, Mass.	Ground oats, ground barley, gluten feed, alfalfa meal, wheat bran, ground corn, wheat middlings, % of 1% salt.
Wirthmore Poultry Mash ( fish and scrap).....	Chas. M. Cox Co.....	Boston, Mass.	Ground oats, ground barley, gluten feed, alfalfa meal, wheat bran, ground corn, beef scraps, fish meal, wheat middlings, % of 1% salt.
E. A. Cowen's Climax Poultry Mash Laying Mash for More Eggs.....	E. A. Cowen Est. John W. Eschelman.....	Worcester, Mass. Lancaster, Pa.	20% fish and beef scraps, gluten meal, cottonseed meal, oil cake meal, alfalfa meal, corn meal, wheat bran, wheat middlings, ground grain screenings, oat chop, hominy feed.
Hen-E-Ta.....	Hen-E-Ta Bone Co.....	Blairsville, Pa.	Corn meal, corn gluten feed, wheat middlings, wheat bran, old process linseed oil meal, Hen-E-Ta composed of phosphorus, silica, lime and soda. Phosphorus 2% to 6% bone ash.
Hen-O-La, Dry Mash.....	Hen-E-Ta Bone Co.....	Newark, N. J.	Beef scraps, fish meal, alfalfa meal, corn oil meal, bran middlings, hominy, crushed oats, salt.
Purity II. Poultry Mash.....	Wm. S. Hills Co.....	Boston, Mass.	Wheat and wheat by-products, corn and corn by-products, gluten feed, alfalfa meal, barley meal, oil meal, a small amount of salt.
Poultry Mash.....	McQuesten & Lewis.....	Manchester, N. H.	Ground corn, ground wheat, ground barley, ground oats, meat, bone, alfalfa, kafir corn, wheat bran, wheat middlings, buckwheat, beet pulp, calcium carbonate, salt.
Growing Feed.....	The Park & Pollard Co.....	Boston, Mass.	Ground commercial wheat bran, commercial wheat middlings, corn, wheat, oats and barley, kafir corn, buckwheat, alfalfa, fish, meat, bone, beet pulp, calcium carbonate.
Lay or Bust Dry Mash.....	The Park & Pollard Co.....	Boston, Mass.	Hominy feed, ground barley, cottonseed meal, wheat, mixed feed, rye shorts.
American Poultry Feed.....	The Quaker Oats Co.....	Chicago, Ill.	Meat scraps, oat meal, wheat bran, with ground screenings, alfalfa meal, yellow hominy feed, corn, gluten feed, ground grain screenings.
Schumacher Poultry Mash.....	The Quaker Oats Co.....	Chicago, Ill.	Wheat middlings, wheat bran, corn meal, alfalfa meal, linseed meal, 1% salt, granulated meal, charcoal.
Purina Chicken Chowder Feed.....	Ralston Purina Co., Inc.....	St. Louis & Buffalo.	Wheat bran, wheat middlings, alfalfa meal, corn bran, corn feed meal, linseed oil cake, meal scraps, ½ of 1% salt.
Stratton & Co.'s Egg Mash.....	Stratton & Co.....	Concord, N. H.	Beef scraps, alfalfa meal, middlings, bran, corn meal, chick cracked corn, crushed oats.
Stratton's H. Poultry Mash.....	Stratton & Co.....	Concord, N. H.	Wheat feed, corn meal, gluten feed, rolled oats, beef scraps, beet pulp, oil meal, hen-eta bone.
Dry Mash for Poultry.....	H. K. Webster Co.....	Lawrence, Mass.	Corn, distillers' dried grains.
DAIRY FEEDS,	American Milling Co.....	Peoria, Ill.	Choice cottonseed meal, corn, distillers' grains,
Empire State Dairy Feed.....	Chapin & Co.....	Hammond, Ind.	chipped oat by-product, corn gluten feed, corn germ meal, ivory nut meal, brewers' grains, cane molasses, salt.
Lactola Dairy Feed.....	Chapin & Co.....	Hammond, Ind.	

Name.	Manufactured by.	Address.	Certified to Contain.
Unicorn Dairy Ration.....	Chapin & Co.....	Hammond, Ind.	Corn, distillers' grains, cottonseed meal, linseed meal, hominy meal, gluten feed, corn starch by-products with corn bran, brewers' grains and salt.
Wirthmore Bal. Ration for Milch Cows.....	Chas. M. Cox Co.....	Boston, Mass.	Cottonseed meal, linseed meal, gluten feed, distillers' grains, bran, malt sprouts, hominy or corn meal, $\frac{3}{4}$ of 1% salt.
Crosby's Ready Ration..... H. & S. Horse, Mule & Dairy Feed Larro Feed.....	E. Crosby & Co..... Dwight E. Hamlin..... The Larrowe Milling Co.....	Brattleboro, Vt. Pittsburg, Pa. Detroit, Mich.	Cottonseed meal, corn gluten feed, dried distillers' grain, dried beet pulp, standard wheat bran, standard wheat middlings, $\frac{3}{4}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.
The H. O. Co.'s Algrane Milk Feed	H. O. Mills.....	Buffalo, N. Y.	Oat hulls, wheat middlings, cottonseed meal, oat shorts, corn gluten feed, ground corn, ground oats, ground grain screenings, molasses, $\frac{1}{2}$ of 1% salt.
Stevens 44 Dairy Ration.....	Oswego Mill Co., (By) The Park & Pollard Co., Mass.	Boston,	Oil meal, hominy meal, cottonseed meal, buckwheat middlings, winter wheat, bran, gluten feed, corn meal, brewers' grains, coconut oil meal, pea meal, corn germ meal, distillers' grains, ground barley, wheat middlings, salt.
Protena Dairy Feed..... R-E-A-L a bal. Ration for Dairy Cows..... Union Grains (Ubico) Ready Dairy Ration.....	Ralston Purina Co., Inc..... F. B. Spaulding Co..... The Ubico Milling Co.....	St. Louis & Buffalo. Lancaster, N. H. Cincinnati, Ohio.	Standard wheat bran, corn meal gluten and cottonseed meal, linseed oil meal, distillers' grains. Fourx corn, distillers' grains, cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, brewers' grains, barley, malt sprouts, 1% salt.
<b>MISCELLANEOUS COMPOUND-ED FEEDS.</b>			
Portage Stock Feed.....	The Akron Feed & Milling Co.....	Akron, Ohio.	Either white or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings, $\frac{1}{2}$ of 1% salt.
Pennant Stock Feed..... Bufecoo Stock Feed.....	E. W. Bailey & Co..... Buffalo Cereal Co.....	Swanton, Vt. Buffalo, N. Y.	Fine white hominy and oat by-products. Ground corn, oats and barley, wheat middlings, corn gluten feed, hominy feed, oat shorts, oat middlings, oat hulls, $\frac{1}{2}$ of 1% salt.
Bufecoo Horse Feed.....	Buffalo Cereal Co.....	Buffalo, N. Y.	Ground oats, ground corn, ground barley, wheat middlings, hominy feed, oat shorts, oat middlings, oat hulls, linseed meal, corn gluten feed.
Corno Stock Feed.....	Corno Mills Co.....	St. Louis, Mo.	Mixture of oat feed and hominy feed.



Charlestock Feed	Chas. M. Cox Co.	Boston, Mass.	Oat feed, oat meal, mill by-products, oat shorts, oat middlings, oat hulls, hominy or corn meal, $\frac{1}{2}$ of 1% salt.
Wirthmore Stock Feed	Chas. M. Cox Co.	Boston, Mass.	Ground barley, ground oats, ground corn, hominy meal, oat meal mill by-products, oat middlings, oat shorts, oat hulls, $\frac{1}{2}$ of 1% salt.
Crosby's Stock Feed	E. Crosby & Co.	Brattleboro, Vt.	Ground barley, ground hominy feed, ground oats, oat feed.
Quality Stock Feed	J. Cushing & Co.	Fitchburg, Vt.	Ground oats, corn meal, hominy feed, oat shorts, oat hulls and salt.
Stock Feed	John W. Eschelman	Lancaster, Pa.	Oat middlings, rye middlings, cottonseed meal, wheat middlings, corn meal, ground grain screenings, oat hulls, hominy feed.
Grandin's Stock Food	D. H. Grandin Milling Co.	Jamesstown, N. Y.	Hominy feed, oat meal mill by-products, oat middlings, oat hulls, oat shorts, salt.
Haskell's Stock Feed	W. H. Haskell & Co.	Toledo, Ohio.	Ground corn, ground oats, hominy feed, oat hulls, oat shorts, and salt.
Holstein Feed	Indiana Milling Co.	Terre Haute, Ind.	Wheat bran with ground screenings not exceed mill run, cob meal.
Sterling Feed	Indiana Milling Co.	Terre Haute, Ind.	Wheat bran with ground screenings not exceed mill run, ground corn and cob.
The H. O. Co.'s New England Stock Feed	H. O. Mills	Buffalo, N. Y.	Wheat middlings, ground corn, hominy feed, oat hulls, oat shorts, ground oats, molasses, $\frac{1}{2}$ of 1% salt.
The Park & Pollard Co. Stock Feed	The Park & Pollard Co.	Boston, Mass.	Ground corn, hominy feed, oat feed.
Schumacher Stock Feed	The Quaker Oats Co.	Chicago, Ill.	Ground corn and barley, hominy feed, wheat flour, cottonseed meal, ground puffed rice, and wheat. Wheat middlings with ground screenings, not exceeding mill run. Oat meal mill by-product, oat middlings, oat hulls, oat shorts, $\frac{1}{2}$ of 1% salt.
Victor Feed	The Quaker Oats Co.	Chicago, Ill.	Ground corn, hominy feed, oat meal mill by-product, oat middlings, oat hulls, oat shorts, $\frac{1}{2}$ of 1% salt.
White Diamond Feed	The Quaker Oats Co.	Chicago, Ill.	Ground corn, hominy feed, oat meal mill by-product, oat middlings, oat hulls, oat shorts, $\frac{1}{2}$ of 1% salt.
Blue Grass Valley Feed	Q. Waller & Co.	Henderson, Ky.	Winter wheat bran, winter wheat middlings, ground corn and cob.

Name.	Manufactured by.	Address.	Certified to Contain.
<b>ALFALFA AND CLOVER MEALS.</b>			
Banner Brand Oat Clover.....	Jos. Breck & Sons.....	Boston, Mass.	Red clover hay.
Alfalfa Meal.....	The Denver Alfalfa & Milling Products Co.,	Denver, Col.	Alfalfa hay.
Alfalfa Meal.....	The Albert Dickinson Co.....	Chicago, Ill.	Made from alfalfa hay.
Pure Alfalfa Meal.....	National Feed Co.....	St. Louis, Mo.	Ground alfalfa hay.
Alfalfa.....	The Park & Pollard Co.....	Boston, Mass.	
Red Star Brand Alfalfa Meal....	Somers & Co.....	240 Cal. St., San Francisco, Cal.	Pure ground alfalfa hay.
Otto Weiss Alfalfa Meal.....	Otto Weiss Alfalfa Stock Food Co.....	Wichita, Kas.	Ground alfalfa hay.
<b>CALF MEALS.</b>			
Blatchford's Calf Meal.....	Blatchford Calf Meal Factory.....	Waukegan, Ill.	Locust bean meal, unpressed flaxseed, wheat, flour, barley meal, ground beans and peas, rice, Polish old process oil meal, cocoa shell meal, coconut meal, re-cleaned cottonseed meal, Fenugreek, dried milk, anise and salt.
Schumacher Calf Meal.....	The Quaker Oats Co.....	Chicago, Ill.	Oat meal, wheat meal, ground flaxseed, dried casein, cottonseed meal, 1/2 of 1% bicarbonate of soda.
Ryde's Cream Calf Meal.....	Ryde & Co.....	Chicago, Ill.	Carob, beans, flaxseed, wheat flour, cottonseed meal, beans and lentils, Fenugreek, anise, cocoa meal, trace of salt, blood meal.





