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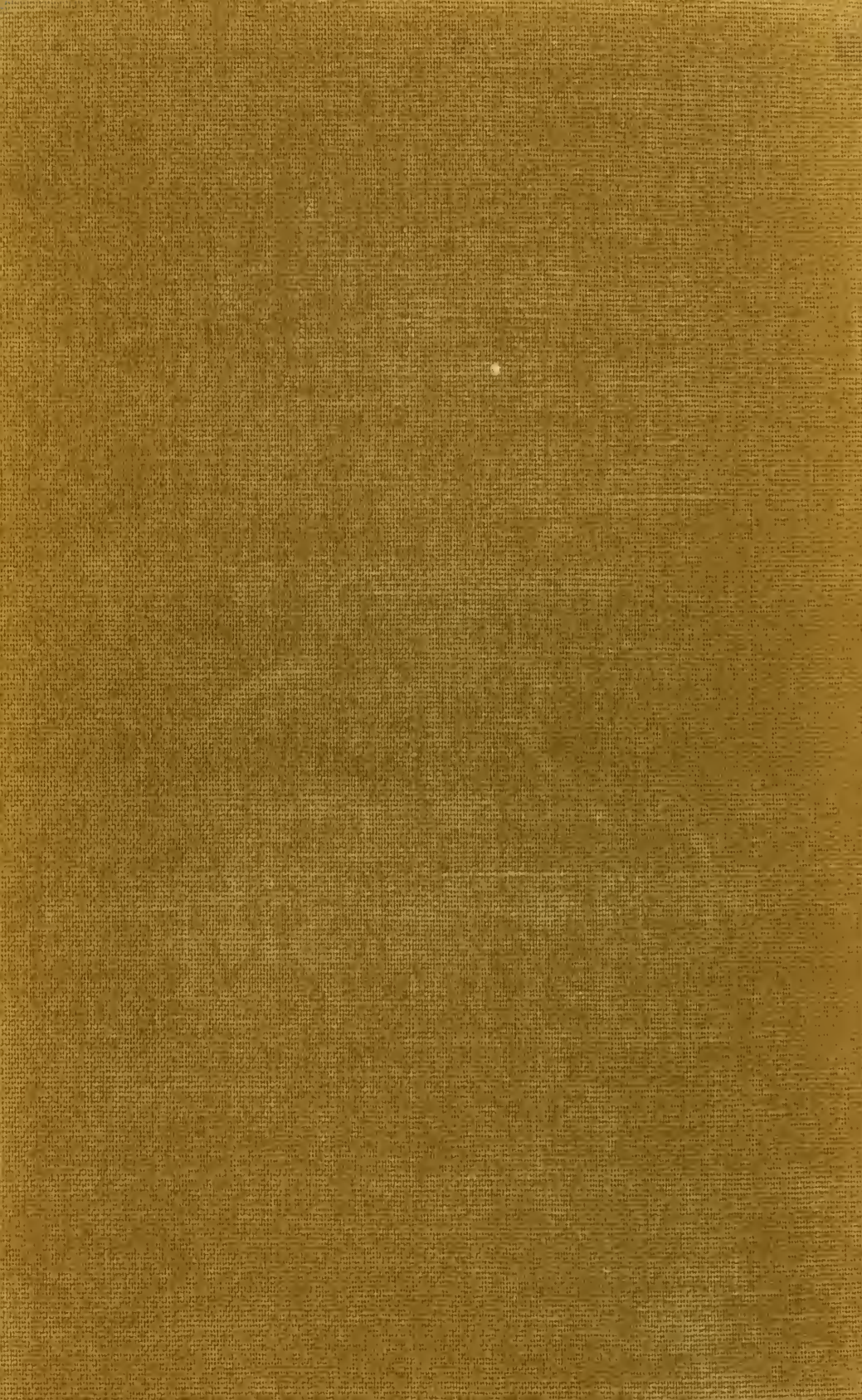
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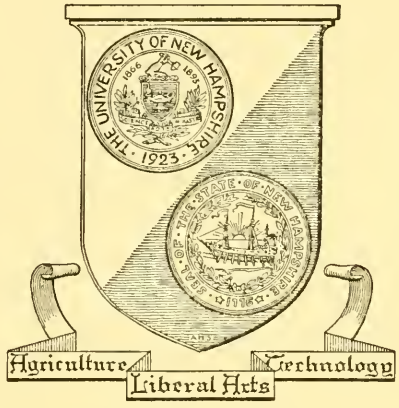
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Inspection of Commercial Feeding Stuffs 1936

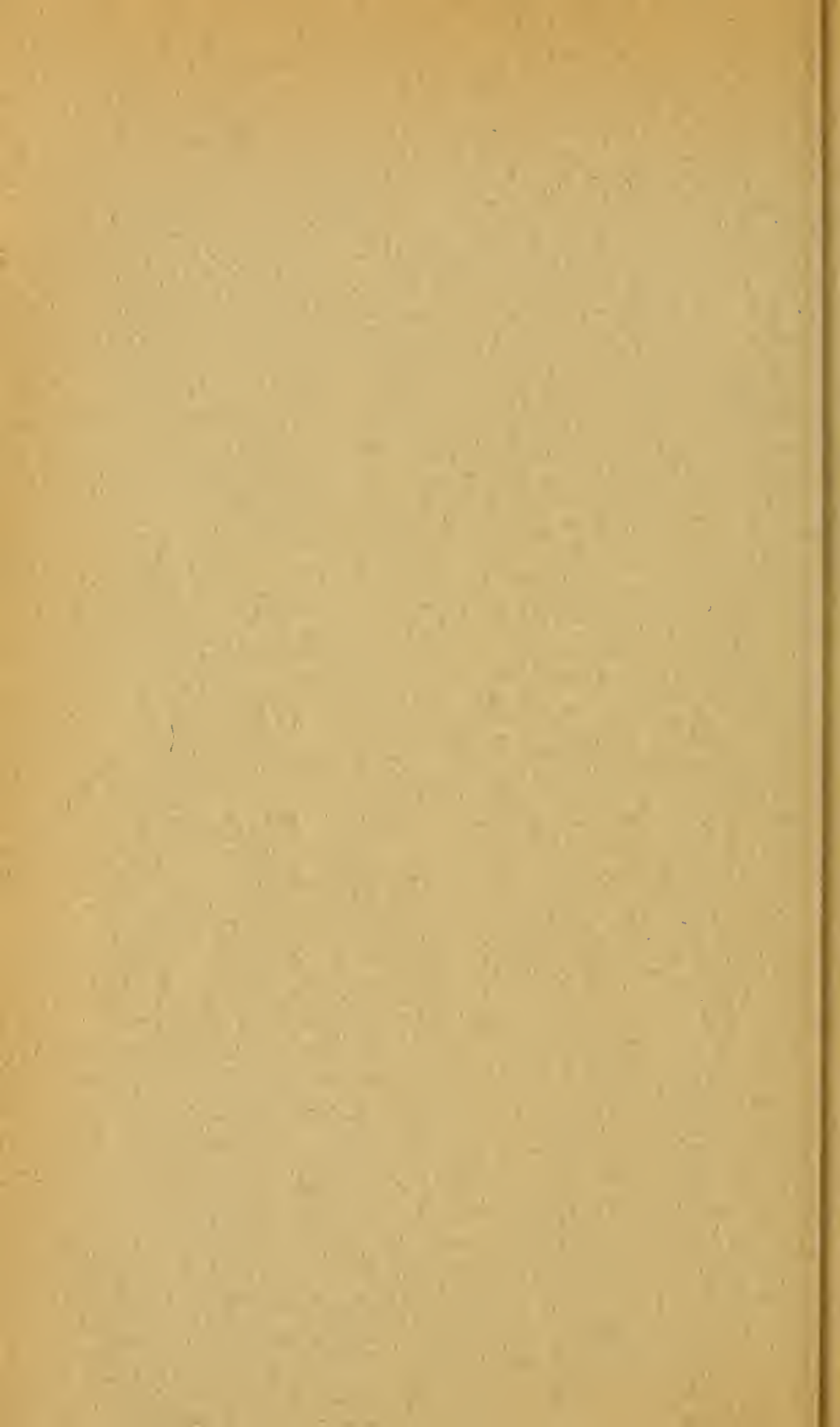
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By T. O. Smith and H. A. Davis

The University of New Hampshire
Durham, N. H.



INSPECTION OF COMMERCIAL FEEDING STUFFS

Made for the

STATE DEPARTMENT OF AGRICULTURE

The inspection of commercial feeding stuffs reported in this bulletin was made under the direction of Honorable Andrew L. Felker, Commissioner of Agriculture. Mr. E. D. Sanborn, State Inspector, collected samples of 384 brands of feeding stuffs which were offered for sale in the State during the year ending June, 1936. The 384 samples represent brands of 108 manufacturers.

THE LAW

The New Hampshire law, entitled an Act to Regulate the Sale of Concentrated Commercial Feeding Stuff, requires every manufacturer or dealer who shall sell or offer for sale any concentrated commercial feeding stuff to furnish with each package a clearly printed statement certifying the net weight of the feed contained in the package, the brand name or trademark under which the feed is sold, the name and address of the manufacturer, the ingredients of which the feed is composed, and a chemical analysis stating the minimum percentage only of protein, fat and carbohydrates, and the maximum percentage only of crude fiber.

Manufacturers and jobbers who ship concentrated commercial feeding stuffs into the State are required to register each brand and to pay a license fee. Under the provisions of the law if the shipper fails to register, the dealer is responsible. Feeds manufactured in other states frequently pass through several middlemen before they reach the local distributor. Dealers who purchase feed for resale must assure themselves the brands they purchase are properly registered or assume that responsibility.

In order to secure greater uniformity in the labelling of feeds and in the statement of ingredients, the Association of American Feed Control Officials has adopted definitions and standards. The Association has also approved twenty-one General Regulations which "should be adopted by state officials as far as the statutes will permit." There are no conflicts in these regulations with the New Hampshire Feeding Stuffs Law. All manufacturers and dealers are therefore expected to conform to the regulations of the Association in all matters not specifically mentioned in the law. Copies of these regulations and also the definitions and standards may be obtained from the Secretary, Association of American Feed Control Officials, College Park, Maryland.

A study of the following resolutions of the Association of American Feed Control Officials will make clear to purchasers of feeding stuffs the reasons for a change in the Uniform Label adopted by the Association, omitting the word Carbohydrates.

Resolved that it is the sense of this Association that we understand the term "Nitrogen-Free Extract" to cover the product indicated by the percentage obtained by subtracting from 100 per cent the sum of the percentages of Ash, Moisture, Protein, Fat and Fiber (adopted prior to 1923).

Resolved that the term "carbohydrates" be interpreted to cover the product indicated by the percentages obtained by the addition of the percentages of crude fiber and nitrogen free extract (adopted prior to 1923).

Since the term "carbohydrates" is misleading and combines a maximum guarantee of crude fiber with a minimum guarantee of nitrogen free extract, Be it Resolved, that the use of the term "carbohydrates" on the uniform registration blank and uniform tags be discontinued (adopted 1935).

The New Hampshire Feeding Stuffs Law requires the manufacturer to state the percentage of carbohydrates. However, a statement of the percentage of nitrogen free extract indirectly gives this information, since the sum of the nitrogen free extract and the crude fiber equals the carbohydrates.

The chief purpose of the Feeding Stuffs Law is to protect the consumer against the inferior products which would doubtless soon appear on the market if the trade were not under state control. The law is primarily a correct-labelling act. It must not be assumed by the purchaser of feeding stuffs that every brand which meets the manufacturer's guarantee is a high-grade feed. The Feeding Stuffs Law does not prevent the sale of a low-grade feed if it is properly licensed and tagged and is offered for sale in compliance with the law. It would not be in the public interest to legislate against the sale of the lower-grade by-products. They can be fed profitably if bought at a price adjusted to their feeding value. The law does prevent an inferior feed being offered for sale as a high-grade product.

In purchasing feeds both the dealer and the consumer should specify: The feed delivered on this order must comply with the New Hampshire Feeding Stuffs Law. Do not accept delivery in untagged or unlabelled bags. The dealer who offers for sale a feeding stuff which has not been registered or which is not guaranteed in compliance with the law is probably indifferent to his customer's interests in other respects. He does not merit either the confidence or patronage of the consumer.

The purchaser's co-operation in refusing to buy a feed which does not conform to the law in every respect will not only help in the enforcement of the law but will at the same time afford himself its protection. If the buyer fails to assure himself the legal requirements have been met, he accepts the feeding stuff at his own risk. The State official

charged with the enforcement of the feeding stuffs law is the Commissioner of Agriculture. All inquiries concerning the law and all matters relative to the registration of brands should be addressed to his office in Concord.

CLASSIFICATION

In classifying the feeding stuffs here reported, the class name under which they were offered to the consumer has been used. The classes are arranged alphabetically. Table I shows the number of brands in each class, the page on which the analysis may be found, the average price per 100 pounds, the average per cent of protein, the number of pounds of protein per \$1.00, the number deficient by one-half per cent or more of protein, the average per cent fat, the number of pounds of fat per \$1.00, and the number deficient by one-fourth per cent or more of fat.

The columns pounds of protein per \$1.00 and pounds of fat per \$1.00 are included for the convenience of consumers interested in the comparative cost of protein and fat in the different concentrates. They are not corrected for the varying amounts of the other constituents.

TABLE I

Class	Analyses on page	Number in class	Average price per 100 pounds	Average per cent protein	Pounds of protein per \$1.00	Number deficient 1/2 per cent protein	Average per cent fat	Pounds of fat per \$1.00	Number deficient 1/4 per cent fat
Alfalfa Leaf Meal	11	1	2.10	20.84	9.9	0	1.96	0.9	1
Brewers' Dried Grains	11	2	1.48	25.42	17.2	0	6.55	4.4	0
Calf Meal	11	4	3.66	24.11	6.6	0	5.46	1.5	0
36% Cottonseed Meal	12	3	1.76	38.51	21.9	0	5.52	3.1	0
41% Cottonseed Meal	12	5	1.86	40.24	21.6	3	6.04	3.2	0
Dairy Feed	13	122	1.74	21.50	12.4	5	4.20	2.4	23
Distillers' Dried Grains	29	6	1.63	27.51	16.9	2	8.27	5.1	2
Fish Meal	29	2	2.65	57.64	21.8	0	8.07	3.0	1
Fox Meal	30	1	5.05	30.04	5.9	0	5.81	1.2	0
Gluten Feed	30	5	1.68	27.72	16.5	0	2.48	1.5	0
Gluten Meal	30	1	1.75	44.98	25.7	0	2.28	1.3	0
Hog Feed	31	2	2.08	16.69	8.0	0	5.05	2.4	0
Hominy Feed	31	4	1.61	10.36	6.4	0	6.68	4.1	0
Kelp	31	1	4.25	5.30	1.2	0	0.47	0.1	0
Linseed Meal	31	3	1.83	38.37	21.0	0	5.27	2.9	0
Meat Scraps	32	4	2.70	46.00	17.0	1	9.73	3.6	0
Dried Skimmed Milk	32	3	8.02	34.85	4.3	0	0.71	0.09	0
Oat Hulls	33	3	0.83	4.51	5.4	0	1.27	1.5	1
Oat Meal	33	2	2.82	16.14	5.7	0	5.75	2.0	0
Poultry Feed	33	116	2.40	19.07	7.9	2	5.14	2.1	1
Soybean Oil Meal	49	3	1.88	41.20	21.9	1	5.25	2.8	0
Stock Feed	49	20	1.66	9.60	5.8	2	4.12	2.5	2
Wheat Bran	51	29	1.41	16.73	11.9	1	4.90	3.5	0
Wheat Middlings	54	14	1.51	17.52	11.6	1	5.04	3.3	1
Wheat Mixed Feed	56	17	1.67	16.99	10.2	2	4.72	2.8	0
Wheat Red Dog	58	4	1.66	19.14	11.5	0	4.53	2.7	0
Wheat Shorts	58	7	1.46	18.18	12.5	0	5.38	3.7	0

NUMBER OF SAMPLES FAILING TO COMPLY WITH THE LAW

One hundred fifty nine of the 384 brands analyzed failed to comply with the law in every respect, violating it on 202 counts. Nearly all of these violations, however, are negligible if measured in terms of the cost to the purchaser.

Eleven brands were found deficient more than one per cent in the most valuable constituent, protein. These deficiencies were 3.12, 2.94, 2.82, 2.22, 2.15, 1.87, 1.69, 1.38, 1.14, 1.10 and 1.08 per cent. Nine brands were deficient more than one-half per cent but less than one per cent. Eleven brands were deficient less than one-half per cent. The 31 brands found deficient in protein is equivalent to 8.1 per cent of the brands analyzed.

Fifty-three brands or 13.8 per cent were deficient in fat; 21 of these were deficient less than one-fourth per cent. The greatest deficiency in fat was 1.34 per cent.

Forty-seven brands contained an excessive amount of crude fibre. Sixty-nine brands were deficient in carbohydrates. In the analysis of a feeding stuff, the percentage of carbohydrates is usually determined indirectly. It is found by subtracting the sum of the percentages of protein, fat, moisture and ash from 100. It is obvious that an excess of protein and fat over the manufacturer's guarantee decreases the percentage of carbohydrates found. Many of this year's carbohydrates deficiencies are due to the protein or fat or both exceeding the guarantee. Two brands were offered for sale without a carbohydrates guarantee.

In the tabulation of the analytical data, deficiencies of one-half per cent or more of protein and of one-fourth per cent or more of fat are underlined.

In Table II is shown a summary of deficiency figures over an eleven year period.

TABLE II

Year	Per cent Deficient in Protein	Per cent Deficient 1/2 % or more in Protein	Per cent Deficient in Fat	Per cent Deficient 1/4 % or more in Fat	Per cent High in Crude Fiber	Per cent Low in Carbo-hydrates	Per cent with no Carbo-hydrates Guarantee
1926	24.0	16.0	14.0	10.0	6.0	6.5	22.5
1927	24.7	16.4	19.4	13.6	5.9	17.9	14.4
1928	29.8	20.7	13.6	9.3	7.9	10.6	11.7
1929	29.7	20.2	12.1	9.3	6.5	10.3	9.5
1930	17.9	13.1	12.0	8.0	3.9	16.5	16.2
1931	9.0	7.2	15.6	9.7	5.3	15.6	11.2
1932	3.2	1.4	13.1	8.1	2.8	15.5	16.9
1933	4.9	3.6	17.3	9.8	3.6	18.1	5.9
1934	6.4	3.4	11.0	7.1	9.8	16.4	6.6
1935	5.4	3.0	12.7	8.5	9.9	19.8	5.4
1936	8.1	5.2	13.8	8.3	12.2	18.0	0.5

REQUESTS FOR THE ANALYSIS OF FEEDING

STUFFS BY INDIVIDUALS

Under the Feeding Stuffs Law the Agricultural Experiment Station is charged only with the analysis of samples of feeding stuffs collected by the State Inspector under the direction of the Commissioner of Agriculture. It does, however, each year analyze a considerable number of samples drawn by individuals representing stock purchased by them for their own use. The object of the purchaser who asks to have the sample analyzed is usually to satisfy himself whether the feed meets its guarantee and if it does not, to obtain evidence upon which to base a claim for shortage.

The Station can assume no responsibility for the sampling of these unofficial samples but can only attest the accuracy of the analysis of the sample as submitted. It is practically impossible to secure a representative sample of a feeding stuff composed of several ingredients varying widely in composition without the aid of a sampling tube for drawing the sample and proper equipment for mixing it. A feed may contain as one of its ingredients gluten meal averaging 40 per cent protein, and as another ingredient oat feed averaging five per cent protein. These materials are so different in physical condition that the shaking in transit tends to separate them even though they may have been perfectly mixed by the manufacturer before bagging. It is apparent that an accurate sample of a ton of this feed can only be had by drawing a core from several bags. The official method requires ten. Since a representative sample is as essential as an accurate analysis in judging the value of a shipment of feed, it is evident that a satisfactory adjustment can seldom be effected on the basis of an unofficial sample.

Notwithstanding the objections which may be raised to the analysis of samples taken without proper sampling equipment, the Station is disposed to continue this work as long as there is evidence that it constitutes a useful service. The samples so submitted should be drawn from at least ten bags in a manner which will insure that the small lot sent for analysis is as accurately representative as possible of the larger lot from which it is taken. Because of the cost of labor and materials, an analysis is not usually warranted on a sample drawn from less than a one ton lot of feed.

A one pound sample is sufficient for the analysis. It should be sent in a glass jar or tin box to prevent the loss of fine particles and a change in the moisture content. In order that the Department may have a satisfactory record of the sample analyzed and may know whether or not the manufacturer and the dealer are complying with the requirements of the law, the following information should be submitted concerning each sample.

Brand

Manufacturer

Address

Guarantee:

 Protein

 Fat

 Carbohydrates

 Moisture

 Ash

 Crude Fiber

Ingredients

.

.

Dealer

Address

Number of bags in lot

Number of bags sampled

Price per 100 pounds

Your name

Your address

Your reason for requesting analysis

.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff				Crude Fiber	Certified by Manufacturer to Contain
	Protein	Fat	Carbo-hydrates	Ash			Mois-ture
ALFALFA LEAF MEAL						
Standard Alfalfa Leaf Meal	G.* 20.00	2.50	58.00	.....	.....	18.00
A. B. Caple Co. Toledo, Ohio	F.* 20.84	1.96	53.49	11.23	12.48	17.45
BREWERS' DRIED GRAINS						
Brewers' Dried Grains	G. 20.00	5.00	53.00	.....	.....	18.00
Allied Mills Chicago, Ill.	F. 25.83	7.07	59.25	4.84	3.01	.....
Alco Dried Brewers' Grains	G. 22.00	6.00	45.00	.....	.....	20.00
C. J. Martenis Grain Co. New York, N. Y.	F. 25.00	6.02	57.58	3.77	7.63	.....
CALF MEAL						
Eastern States Calf Starter	G. 23.00	3.50	51.00	.....	.....	4.00
Open Formula						
Eastern States Farmers' Exchange Springfield, Mass.	F. 24.69	7.02	54.42	4.93	8.94	3.49
Kasco Calf Meal	G. 21.00	3.50	50.00	.....	.....	4.50
Kasco Mills Waverly, N. Y.	F. 22.77	4.45	53.52	9.94	9.32	4.71
Bull Brand Calf Meal	G. 22.00	4.00	53.00	.....	.....	5.00
Maritime Milling Co. Buffalo, N. Y.	F. 26.40	4.63	51.81	6.73	10.43	3.48
Merrimack Calf Meal	G. 20.00	4.50	55.00	.....	.....	5.00
Merrimack Farmers' Exchange Concord, N. H.	F. 22.59	5.72	57.03	4.12	10.54	4.24

Rolled oats, yellow corn meal, wheat bran, mill run screenings, blood flour, dried skimmed milk, linseed meal, soybean oil meal, sardine oil, dicalcium phosphate, salt.
 Wheat middlings, wheat red dog flour, mill run screenings, linseed meal, soybean meal, corn meal, oat meal, malted barley, dried skimmed milk, milk sugar feed, blood flour, bone meal, salt, calcite, cod liver oil.
 Cod liver oil, dried skimmed milk, blood flour, red dog wheat flour, corn meal, linseed meal, oat flour, steamed bone meal, calcium carbonate, salt.
 Soybean oil meal, oat groats, linseed meal, wheat red dog flour, hominy feed, dried blood, fish meal, dried skimmed milk, anise, fenugreek.

* These letters indicate respectively guaranteed and found.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Crude Fiber	Certified by Manufacturer to Contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture			
36% COTTONSEED MEAL								
Miss Cairo Brand 36% Cotton- seed Meal	G. 36.00	5.00	24.00	....	....	12.00		
Cairo Meal & Cake Co. . . . Cairo, Ill.	F. 36.73	5.52	44.30	6.47	6.98	....	
Danish Brand Cottonseed Feed Humphreys-Godwin Co. Memphis, Tenn.	G. 36.00 F. 37.91	5.00 5.43	25.00 43.75	.... 5.68	.... 7.23	15.00		Cottonseed meal, cottonseed hulls.
Lovitt Brand 36% Cottonseed Meal L. B. Lovitt & Co. Memphis, Tenn.	G. 36.00 F. 40.89	4.50 5.62	41.00 40.41	.... 6.21	.... 6.87	16.00		
41% COTTONSEED MEAL								
Empire 41% Cottonseed Meal . E. T. Allen Co. Atlanta, Ga.	G. 41.00 F. 41.11	5.50 6.26	38.00 40.54	.... 6.28	.... 5.81	13.00		
Cow-Eta Brand 41% Cottonseed Meal Ashcraft-Wilkinson Co. Atlanta, Ga.	G. 41.00 F. 41.07	5.00 6.37	48.00 38.74	.... 6.28	.... 7.54	13.00		
Eastern States 41% Cottonseed Meal Eastern States Farmers' Exchange Springfield, Mass.	G. 41.00 F. 40.06	6.00 6.00	36.00 39.57	.... 6.75	.... 7.62	10.00		
Dixie Brand Cottonseed Meal . Humphreys-Godwin Co. Memphis, Tenn.	G. 41.00 F. 40.10	5.00 6.10	26.00 40.29	.... 6.83	.... 6.68	12.00		
Lovitt Brand 41% Cottonseed Meal L. B. Lovitt & Co. Memphis, Tenn.	G. 41.00 F. 38.85	5.00 5.45	38.00 42.44	.... 5.45	.... 7.81	13.00		

DAIRY FEED

Empire 20% Dairy Ration . . . Allied Mills Chicago, Ill.	G.	20.00	3.00	52.00	.....	12.00	Soybean oil meal, cottonseed meal, wheat bran, grain screenings, clipped oat by-products, cane molasses, limestone, salt.
	F.	20.66	3.37	55.29	12.63	7.28	
Empire 24% Dairy Ration . . . Allied Mills Chicago, Ill.	G.	24.00	3.00	50.00	.....	12.00	Corn distillers' dried grains, brewers' dried grains, soybean oil meal, corn gluten feed, corn gluten meal, cottonseed meal, corn meal, wheat bran, grain screenings, clipped oat by-products, cane molasses, limestone, salt.
	F.	24.82	4.24	52.80	9.94	8.01	
Wayne Amco 20% Dairy Ration . . . Allied Mills Chicago, Ill.	G.	20.00	4.00	54.00	.....	9.00	Cottonseed meal, brewers' dried grains, corn distillers' dried grains, oats, corn gluten feed, corn meal, soybean oil meal, corn gluten meal, linseed meal, wheat bran, cane molasses, steamed bone meal, limestone, salt.
	F.	23.12	4.51	55.12	9.19	8.24	
Wayne Amco 24% Dairy Ration . . . Allied Mills Chicago, Ill.	G.	24.00	4.00	49.00	.....	9.00	Cottonseed meal, corn gluten meal, corn distillers' dried grains, brewers' dried grains, corn gluten feed, linseed meal, soybean oil meal, peanut oil meal, oats, corn meal, wheat bran, cane molasses, steamed bone meal, limestone, salt.
	F.	25.22	5.05	52.69	8.52	8.45	
Wayne Amco 12% Fitting Ration Allied Mills Chicago, Ill.	G.	12.00	3.00	59.00	.....	9.00	Corn meal, soybean oil meal, oats, linseed meal, wheat bran, cane molasses, steamed bone meal, limestone, salt.
	F.	14.27	4.58	63.39	10.94	6.77	
Bailey's New Deal Dairy Ration E. W. Bailey & Co. Montpelier, Vt.	G.	20.00	5.00	58.00	.....	11.00	Corn gluten feed, white hominy feed, brewers' dried grains, cottonseed meal, linseed meal, standard wheat middlings, wheat bran, oat meal mill by-products, salt, bone meal, calcium carbonate, molasses.
	F.	20.05	4.89	59.06	10.08	11.45	
Capital Dairy Ration Sweetened E. W. Bailey & Co. Montpelier, Vt.	G.	24.00	5.00	55.00	.....	9.00	Corn gluten feed, linseed meal, hominy feed, cottonseed meal, oats, wheat bran, corn meal, bone meal, calcium carbonate, salt, molasses.
	F.	24.21	4.74	54.59	9.69	7.03	
Favorite Dairy Ration Sweetened E. W. Bailey & Co. Montpelier, Vt.	G.	20.00	4.00	55.00	.....	7.50	White hominy feed, cottonseed meal, linseed meal, corn meal, oats, wheat bran, soybean oil meal, corn gluten feed, wheat middlings, bone meal, calcium carbonate, salt, molasses.
	F.	20.31	4.63	58.68	9.88	6.48	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs					Crude Fiber	Certified by Manufacturer to Contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture		
Our 20 Special E. W. Bailey & Co. Montpelier, Vt.	G.	20.00	3.50	55.00	.....	9.00	Gluten feed, wheat middlings, oat meal mill by-products, corn meal, wheat bran, cottonseed meal, molasses, salt, bone meal, calcium carbonate, soybean oil meal.
	F.	19.73	4.33	60.08	6.86	9.00	
Barco 16% Dairy Ration G. N. Bartemus Co. Concord, N. H.	G.	16.00	5.00	60.00	.....	9.00	Corn gluten feed, linseed meal, hominy feed, cottonseed meal, oats, wheat bran, bone meal, calcium carbonate, salt.
	F.	17.38	5.00	62.51	6.46	7.28	
Barco 20% Dairy Ration G. N. Bartemus Co. Concord, N. H.	G.	20.00	4.50	55.00	.....	7.50	White hominy feed, cottonseed meal, linseed meal, corn meal, oats, wheat bran, corn gluten feed, wheat middlings, bone meal, calcium carbonate, salt.
	F.	23.26	4.67	55.22	8.12	7.83	
Barco 24% Sweetened Dairy Ration G. N. Bartemus Co. Concord, N. H.	G.	24.00	4.45	55.00	.....	9.00	Corn Gluten feed, linseed meal, hominy feed, cottonseed meal, oats, wheat bran, corn meal, bone meal, calcium carbonate, fine salt.
	F.	24.62	4.48	53.74	7.92	7.62	
Blaine's 20% Special Dairy Ration G. N. Bartemus Co. Concord, N. H.	G.	20.00	5.00	50.00	.....	8.00	Gluten feed, cottonseed meal, hominy, linseed meal, wheat bran, red dog middlings, salt.
	F.	21.54	4.14	58.45	5.47	6.49	
Concord 20% Sweetened Ration G. N. Bartemus Co. Concord, N. H.	G.	20.00	3.00	45.00	.....	9.00	Corn gluten feed, wheat bran, gluten meal, hominy feed, cottonseed meal, brewers' grains, linseed meal, molasses, bone meal, limestone, salt.
	F.	22.02	3.68	56.86	7.68	6.70	
New Deal Dairy Feed G. N. Bartemus Co. Concord, N. H.	G.	20.00	5.00	58.00	.....	11.00	Gluten feed, hominy feed, linseed meal, bone meal, brewers' grains, cottonseed meal, wheat middlings, calcium carbonate, wheat bran, salt, molasses, oat feed.
	F.	21.01	5.02	57.37	6.59	10.87	
Special 20% Dairy Sweetened G. N. Bartemus Co. Concord, N. H.	G.	20.00	3.65	48.00	.....	10.00	Corn gluten feed, wheat middlings, oat feed, wheat bran, cottonseed meal, salt, molasses, bone meal, lime.
	F.	21.19	4.08	56.94	8.17	8.42	

Auburn Brand Auburn Dairy Feed	G.	20.00	4.00	45.00	....	10.00	Corn gluten feed, linseed meal, oats, corn meal, grain screenings, cottonseed meal, wheat bran, barley, brewers' dried grains, molasses, salt, calcium carbonate, calcium phosphate, corn distillers' dried grains, soybean oil meal.
Beacon Milling Co.	F.	20.53	3.63	60.30	9.46	6.34	
Cayuga, N. Y.					6.08		
Beacon Sweet 20	G.	20.00	4.50	50.00	....	9.00	Linseed meal, soybean oil meal, corn distillers' dried grains, cottonseed meal, wheat bran, wheat middlings, mill run screenings, brewers' dried grains, corn gluten meal, corn gluten feed, barley, corn meal, oats, molasses, calcium carbonate, salt.
Beacon Milling Co.	F.	20.79	3.62	59.84	8.73	7.00	
Cayuga, N. Y.					6.95		
Beacon Sweet 24	G.	24.00	4.00	55.00	....	9.00	Linseed meal, soybean oil meal, corn gluten meal, cottonseed meal, corn gluten feed, corn meal, brewers' dried grains, corn distillers' dried grains, wheat bran, mill run screenings, oats, barley, molasses, salt, calcium carbonate.
Beacon Milling Co.	F.	25.04	3.92	54.73	8.96	7.14	
Cayuga, N. Y.					7.35		
Corson's No. 1 Dairy Ration	G.	20.00	4.50	60.00	....	10.00	Wheat bran, gluten feed, peanut meal, linseed meal, dried brewers' grains, molasses, corn feed meal, cottonseed meal, salt, calcium carbonate, cod liver oil.
Freeman Corson	F.	22.51	3.66	55.33	9.96	8.96	
Rochester, N. H.					8.54		
Coweco 20% Sunrise Dairy Ration	G.	20.00	3.50	50.00	....	10.00	Wheat bran, wheat middlings, brewers' grains, gluten feed, distillers' grains, grain cleanings, soybean meal, cocanut oil meal, cottonseed meal, molasses, calcium carbonate, salt.
E. A. Cowee Co.	F.	18.13	4.01	62.10	9.01	11.24	
Fitchburg, Mass.					6.75		
Dairy-Aide 20% Ration	G.	20.00	4.00	55.00	....	9.00	Wheat bran, wheat middlings, barley, brewers' grains, grain screenings, soybean meal, cottonseed meal, gluten meal, molasses, calcium carbonate, bone meal, salt.
E. A. Cowee Co.	F.	23.03	3.59	57.01	8.27	10.99	
Fitchburg, Mass.					8.10		
Dairy-Aide 24% Ration	G.	24.00	4.00	55.00	....	9.00	Wheat bran, wheat middlings, barley, brewers' grains, grain screenings, soybean meal, cottonseed meal, gluten meal, molasses, calcium carbonate, bone meal, salt.
E. A. Cowee Co.	F.	22.62	4.01	54.16	10.38	9.53	
Fitchburg, Mass.					8.63		
Dunbar's Dairy Ration	G.	22.00	4.50	48.00	....	10.00	Wheat bran, linseed meal, cottonseed meal, brewers' grains, oats, hominy, gluten meal, bone meal, charcoal, calcium carbonate, salt.
E. A. Cowee Co.	F.	22.00	4.50	57.31	8.45	11.53	
Fitchburg, Mass.					7.74		

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs					Crude Fiber	Certified by Manufacturer to Contain
	Protein	Fat	Carbo-hydrates	Ash	Mois-ture		
Champion Dairy Ration	G. 24.00	4.75	50.00	....	....	8.50	Wheat bran, cottonseed meal, gluten feed, gluten meal, linseed meal, oats, corn meal or hominy, brewers' dried grains, distillers' grains, wheat middlings, salt, bone meal.
G. B. Currier Co. Colebrook, N. H.	F. 25.74	4.38	51.05	8.31	10.52	8.06	
Delaware 20% Dairy Feed	G. 20.00	5.00	50.00	....	....	10.00	Corn gluten feed, linseed meal, cottonseed meal, dried beet pulp, hominy feed, corn meal, wheat bran, wheat middlings, salt, calcium carbonate.
Delaware Mills Deposit, N. Y.	F. 24.26	5.07	52.07	9.86	8.74	8.86	
Indian Sweet 20% Dairy Feed	G. 20.00	4.00	50.00	....	....	12.00	Cane molasses, linseed meal, corn gluten feed, cottonseed meal, soybean oil meal, peanut oil meal, wheat bran, wheat middlings, corn meal, oat feed, buckwheat, phosphatic calcium carbonate, salt.
Delaware Mills Deposit, N. Y.	F. 21.75	3.06	56.28	8.99	9.92	10.94	
Indian Sweet 24% Dairy Feed	G. 24.00	4.00	50.00	....	....	12.00	Cane molasses, linseed meal, corn gluten feed, cottonseed meal, soybean oil meal, peanut oil meal, wheat bran, wheat middlings, corn meal, oat feed, buckwheat, phosphatic calcium carbonate, salt.
Delaware Mills Deposit, N. Y.	F. 24.08	4.00	55.17	8.54	8.21	10.46	
D & G Dairy Feed	G. 20.00	4.00	54.00	....	....	12.00	Cottonseed meal, peanut meal, linseed meal, gluten feed, corn feed meal, wheat bran, grain screenings, clipped oat by-products, oat middlings, oat shorts, oat hulls, molasses, bone meal, soybean oil meal, calcium carbonate, salt.
Dietrich & Gambrill Frederick, Md.	F. 20.53	3.89	56.89	9.07	9.62	12.00	
Gambrill's A 1 Dairy Feed	G. 24.00	4.60	51.00	....	....	9.00	Gluten feed, cottonseed meal, linseed meal, peanut meal, dried brewers' grains, wheat bran, wheat middlings, corn feed meal, oats, molasses, calcium carbonate, bone meal, salt.
Dietrich & Gambrill Frederick, Md.	F. 25.87	4.77	51.54	8.48	9.34	8.29	
Gambrill's 16% Dairy Feed	G. 16.00	3.50	57.00	....	....	12.00	Cottonseed meal, peanut meal, gluten feed, wheat bran, corn feed meal, wheat screenings, clipped oat by-products, oat middlings, oat shorts, oat hulls, molasses, bone meal, calcium carbonate, salt.
Dietrich & Gambrill Frederick, Md.	F. 16.99	3.62	61.01	9.31	9.07	13.08	
Pen Mar Dairy Feed	G. 20.00	4.00	56.00	....	....	9.00	Gluten feed, cottonseed meal, linseed meal, peanut meal, dried brewers' grains, oats, corn feed meal, wheat bran, wheat middlings, molasses, calcium carbonate, bone meal, salt.
Dietrich & Gambrill Frederick, Md.	F. 22.24	3.86	55.32	8.53	10.05	7.50	

Drimolass Feed Mixture	G.	9.00	5.00	80.00	.....	6.00	Chocolate residue, cane molasses.
Drimolass Corporation New York, N. Y.	F.	10.42	3.68	71.52	9.31	10.34	
Eastern States Fitting Ration Open Formula	G.	12.00	3.50	59.00	.....	8.00	Yellow corn meal, wheat bran, mill run screenings, oats, barley, cane molasses, alfalfa leaf meal, linseed meal, soybean oil meal, dicalcium phosphate, sardine oil, salt.
Eastern States Farmers' Exchange Springfield, Mass.	F.	14.01	4.63	64.03	6.12	11.21	
Eastern States Fulpail Dairy Ration Open Formula	G.	20.00	4.50	53.00	.....	8.50	Yellow hominy feed, distillers' corn dried grains, wheat bran, mill run screenings, oats, cottonseed meal, soybean oil meal, corn gluten feed, cane molasses, linseed meal, barley, dicalcium phosphate, salt.
Eastern States Farmers' Exchange Springfield, Mass.	F.	21.58	5.26	56.96	6.01	10.19	
Eastern States Highland 12 Open Formula	G.	12.00	3.00	61.00	.....	11.00	Yellow corn meal, oat mill feed, wheat bran, mill run screenings, barley, cane molasses, distillers' corn dried grains, soybean oil meal, alfalfa leaf meal, calcium carbonate, salt.
Eastern States Farmers' Exchange Springfield, Mass.	F.	12.78	4.03	66.45	7.21	10.22	
Eastern States Highland 16 Dairy Ration Open Formula	G.	16.00	4.00	57.00	.....	11.00	Yellow hominy feed, oat mill feed, distillers' corn dried grains, cane molasses, barley, wheat bran, mill run screenings, corn gluten feed, cottonseed meal, soybean oil meal, peanut oil meal, calcium carbonate, salt.
Eastern States Farmers' Exchange Springfield, Mass.	F.	17.91	4.85	61.96	6.32	10.31	
Eastern States Highland 20 Dairy Ration Open Formula	G.	20.00	4.00	53.00	.....	11.50	Oat mill feed, distillers' corn dried grains, cottonseed meal, cane molasses, soybean oil meal, yellow hominy feed, barley, wheat bran, mill run screenings, corn gluten feed, peanut oil meal, calcium carbonate, salt.
Eastern States Farmers' Exchange Springfield, Mass.	F.	21.49	4.56	57.83	7.00	10.90	
Eastern States Milkmore Dairy Ration Open Formula	G.	24.00	4.50	49.00	.....	9.00	Cottonseed meal, distillers' corn dried grains, corn gluten feed, wheat bran, mill run wheat screenings, soybean oil meal, yellow hominy feed, oats, cane molasses, linseed meal, dicalcium phosphate, salt.
Eastern States Farmers' Exchange Springfield, Mass.	F.	25.74	4.83	53.67	6.74	9.02	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Moisture	Crude Fiber	Certified by Manufacturer to Contain
	Protein	Fat	Carbo- hydrates	Ash				
Eastern States Sixteen Dairy Ration Open Formula	G. 16.00	4.00	56.00	.....	.....	8.00	Yellow hominy feed, wheat bran, mill run screenings, oats, distillers' corn dried grains, cane molasses, corn gluten feed, barley, cottonseed meal, linseed meal, soybean oil meal, dicalcium phosphate, salt.
Eastern States Farmers' Exchange Springfield, Mass.	F. 17.42	5.02	61.30	5.69	10.57	6.58	Wheat bran, copra oil meal, corn gluten feed, cottonseed meal, cane molasses, oats, wheat screenings, calcium carbonate, salt, soybean oil meal.	
Dairymen's Emergency Ration	G. 20.00	3.00	50.00	.....	.....	12.00	Corn distillers' grains, wheat bran, linseed meal, corn meal or hominy feed, barley, malt sprouts, corn gluten feed, cottonseed meal, dried brewers' grains, calcium carbonate, salt, molasses, soybean oil meal.
Elmore Milling Co. Oneonta, N. Y.	F. 21.80	5.28	55.16	8.98	8.78	11.21	Corn gluten feed, cottonseed meal, wheat bran, wheat screenings, oat meal mill by-products, cane molasses, salt, coconut oil meal.	
Elmore Milk Grains Junior	G. 20.00	4.50	55.00	.....	.....	10.00	Wheat bran, wheat middlings, barley, cottonseed meal, corn gluten feed, corn meal or hominy feed, soybean meal, cane molasses, wheat screenings, calcium carbonate, salt, oats, copra oil meal, dried brewers' grains.
Sweet	F. 22.37	4.37	58.09	5.85	9.32	8.43	Wheat bran, wheat middlings, barley, cottonseed meal, corn gluten feed, cottonseed meal, wheat bran, wheat screenings, oat meal mill by-products, cane molasses, salt, coconut oil meal.	
Elmore Milling Co. Oneonta, N. Y.	F. 18.21	3.26	62.51	5.33	10.69	12.90	Wheat bran, wheat middlings, barley, cottonseed meal, corn gluten feed, corn meal or hominy feed, soybean meal, cane molasses, wheat screenings, calcium carbonate, salt, oats, copra oil meal, dried brewers' grains.	
Elmore's Sweet Digesto	G. 16.00	4.00	60.00	.....	.....	12.00	Wheat bran, wheat middlings, barley, cottonseed meal, corn gluten feed, cottonseed meal, wheat bran, wheat screenings, oat meal mill by-products, cane molasses, salt, coconut oil meal.
Dairy Feed	F. 22.64	4.06	56.73	7.03	9.54	10.57	Wheat bran, wheat middlings, barley, cottonseed meal, corn gluten feed, cottonseed meal, wheat bran, wheat screenings, oat meal mill by-products, cane molasses, salt, coconut oil meal.	
Elmore Milling Co. Oneonta, N. Y.	G. 20.00	4.00	55.00	.....	.....	11.00	Wheat bran, wheat middlings, barley, cottonseed meal, corn gluten feed, cottonseed meal, wheat bran, wheat screenings, oat meal mill by-products, cane molasses, salt, coconut oil meal.
Granger 20% Dairy Ration	F. 24.87	4.71	53.98	6.92	9.52	11.38	Wheat bran, wheat middlings, barley, cottonseed meal, corn gluten feed, cottonseed meal, wheat bran, wheat screenings, oat meal mill by-products, cane molasses, salt, coconut oil meal.	
Elmore Milling Co. Oneonta, N. Y.	G. 24.00	4.00	45.00	.....	.....	10.00	Wheat bran, wheat middlings, barley, cottonseed meal, corn gluten feed, cottonseed meal, wheat bran, wheat screenings, oat meal mill by-products, cane molasses, salt, coconut oil meal.
Granger 24% Dairy Ration	F. 24.87	4.71	53.98	6.92	9.52	11.38	Wheat bran, wheat middlings, barley, cottonseed meal, corn gluten feed, cottonseed meal, wheat bran, wheat screenings, oat meal mill by-products, cane molasses, salt, coconut oil meal.	
Elmore Milling Co. Oneonta, N. Y.	G. 24.00	4.00	45.00	.....	.....	11.00	Wheat bran, wheat middlings, barley, cottonseed meal, corn gluten feed, cottonseed meal, wheat bran, wheat screenings, oat meal mill by-products, cane molasses, salt, coconut oil meal.
Waldorf 24% Dairy Ration	F. 24.87	5.02	53.12	7.05	9.94	10.11	Wheat bran, wheat middlings, barley, cottonseed meal, corn gluten feed, cottonseed meal, wheat bran, wheat screenings, oat meal mill by-products, cane molasses, salt, coconut oil meal.	
Elmore Milling Co. Oneonta, N. Y.	G. 20.00	4.00	54.00	.....	.....	8.00	Wheat bran, wheat middlings, barley, cottonseed meal, corn gluten feed, cottonseed meal, wheat bran, wheat screenings, oat meal mill by-products, cane molasses, salt, coconut oil meal.
Eshelman Certified 20 Dairy Ration	F. 22.20	4.12	57.31	7.25	9.12	7.17	Wheat bran, wheat middlings, barley, cottonseed meal, corn gluten feed, cottonseed meal, wheat bran, wheat screenings, oat meal mill by-products, cane molasses, salt, coconut oil meal.	
John W. Eshelman & Sons Lancaster, Pa.	G. 20.00	4.00	54.00	.....	.....	8.00	Wheat bran, wheat middlings, barley, cottonseed meal, corn gluten feed, cottonseed meal, wheat bran, wheat screenings, oat meal mill by-products, cane molasses, salt, coconut oil meal.

Eshelman Conestoga 20 Dairy Feed	G.	20.00	4.00	55.00	....	....	11.00	Cottonseed meal, wheat bran, cane molasses, corn gluten feed, dried brewers' grains, corn distillers' grains, soybean oil meal, linseed meal, grain screenings, bone meal, calcium carbonate, salt.
John W. Eshelman & Sons Lancaster, Pa.	F.	21.10	4.52	55.74	9.08	9.56	8.61	
Eshelman Lancaster 20 Dairy Feed	G.	20.00	4.00	55.00	....	....	11.00	Wheat bran, cottonseed meal, oats, corn gluten feed, cane molasses, dried brewers' grains, corn distillers' grains, corn meal, linseed meal, soybean oil meal, bone meal, calcium carbonate, salt.
John W. Eshelman & Sons Lancaster, Pa.	F.	23.03	4.39	55.82	7.29	9.47	8.33	
C Dairy	G.	20.00	4.00	53.00	....	....	9.00	Hominy or corn meal, wheat bran, oats, gluten feed, gluten meal, oil meal, cottonseed meal, soybean oil meal, calcium carbonate, salt, beet pulp.
Farm Service Stores Fitchburg, Mass.	F.	22.59	4.58	56.10	7.95	8.78	8.39	
18% Dairy Ration	G.	18.00	3.50	58.00	....	....	13.00	Wheat bran, linseed meal, soybean oil meal, cottonseed meal, brewers' grains, corn meal, gluten feed, oat middlings, molasses, salt, calcium carbonate.
Farm Service Stores Fitchburg, Mass.	F.	19.48	3.82	60.47	7.54	8.69	12.09	
North Star 24% Dairy Feed	G.	24.00	4.00	53.00	....	....	11.00	Wheat bran, brewers' grains, oats, corn meal, linseed meal, gluten feed, cottonseed meal, soybean oil meal, bone meal, molasses, limestone, salt.
Farm Service Stores Fitchburg, Mass.	F.	24.34	4.00	55.69	7.08	8.89	8.57	
Wilbur's Dairy Mixture	G.	20.00	5.00	55.00	....	....	9.00	Hominy, wheat bran, brewers' grains, gluten feed, cottonseed meal, oats, soybean oil meal, molasses, lime, salt.
Farm Service Stores Fitchburg, Mass.	F.	20.79	4.83	56.72	6.28	11.38	7.64	
Brookside 20% Dairy Ration	G.	20.00	3.50	65.00	....	....	10.00	Corn distillers' dried grains, corn gluten feed, linseed meal, cottonseed meal, soybean oil meal, wheat bran, wheat middlings, mill run screenings, corn meal, cane molasses, steamed bone meal, calcium carbonate, salt.
First National Stores Somerville, Mass.	F.	20.84	3.92	58.98	6.67	9.59	9.27	
Grandin's 12 Twin Six 12 Dairy Feed	G.	22.00	5.00	50.00	....	....	12.00	Linseed meal, cottonseed meal, soybean oil meal, coconut oil meal, corn gluten feed, wheat bran, wheat middlings, mill run screenings, corn meal, corn feed meal, hominy feed, alfalfa meal, steamed bone meal, calcium carbonate, salt.
D. H. Grandin Milling Co. Jamestown, N. Y.	F.	21.58	5.44	56.81	6.93	9.24	7.89	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by Manufacturer to Contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Crude Fiber	
Grandin's 32% Dairy Feed . . .	G. 32.00	4.00	40.00	.....	.....	9.00	Cottonseed meal, soybean oil meal, linseed meal, corn gluten feed, corn gluten meal, wheat bran, mill run screenings, steamed bone meal, salt, calcium carbonate, cane molasses.
D. H. Grandin Milling Co. . . Jamestown, N. Y.	F. 31.52	4.61	44.84	10.34	8.69	7.83	
Grandin's Milk Maker	G. 20.00	5.00	50.00	.....	.....	12.00	Linseed meal, cottonseed meal, soybean oil meal, coconut oil meal, corn gluten feed, wheat bran, wheat middlings, mill run screenings, corn meal, corn feed meal, hominy feed, beet pulp, steamed bone meal, calcium carbonate, salt.
D. H. Grandin Milling Co. . . . Jamestown, N. Y.	F. 22.55	5.09	55.37	7.48	9.51	8.32	
Grandin's Sweetened 16% Dairy Feed	G. 16.00	4.00	50.00	.....	.....	10.00	Linseed meal, cottonseed meal, corn gluten feed, wheat bran, wheat middlings, mill run screenings, corn meal, corn feed meal, hominy feed, barley, cane molasses, steamed bone meal, calcium carbonate, salt.
D. H. Grandin Milling Co. . . . Jamestown, N. Y.	F. 20.72	4.31	57.68	7.48	9.81	7.65	
Grandin's Sweetened 20% Dairy Feed	G. 20.00	4.00	50.00	.....	.....	10.00	Linseed meal, cottonseed meal, soybean oil meal, corn gluten feed, wheat bran, wheat middlings, mill run screenings, hominy feed, cane molasses, steamed bone meal, calcium carbonate, salt.
D. H. Grandin Milling Co. . . . Jamestown, N. Y.	F. 21.23	4.47	56.91	7.21	10.18	6.90	
M-S (Money Saver) 20% Sweetened Dairy Feed	G. 20.00	3.50	50.00	.....	.....	12.00	Cane molasses, cottonseed meal, soybean oil meal, linseed meal, corn gluten feed, distillers' corn dried grains, brewers' dried grains, wheat bran, wheat middlings, grain screenings, oat mill feed, steamed bone meal, calcium carbonate, salt.
D. H. Grandin Milling Co. . . . Jamestown, N. Y.	F. 20.49	3.68	56.93	9.18	9.72	10.79	
Daily Milk Dairy Feed	G. 16.00	4.00	58.00	.....	.....	12.00	Wheat bran, cottonseed meal, wheat standard middlings, mill run screenings, molasses, linseed meal, corn gluten meal, corn gluten feed, grain screenings, clipped oat by-products, calcium carbonate, salt, soybean oil meal, malt sprouts.
Great Atlantic & Pacific Tea Co. New York, N. Y.	F. 19.35	4.24	58.97	8.99	8.45	10.42	

Milky Way Dairy Feed 20%	G.	20.00	3.50	56.00	....	....	9.00	Corn feed meal, wheat bran, cottonseed meal, wheat middlings, mill run screenings, oats, barley, molasses, soybean oil meal, linseed meal, corn gluten meal, calcium carbonate, salt, corn gluten feed, malt sprouts.
Great Atlantic & Pacific Tea Co. New York, N. Y.	F.	22.46	3.56	58.32	7.65	8.01	9.78	
Milky Way Dairy Feed 24% :	G.	24.00	4.00	52.00	....	....	9.00	Corn feed meal, wheat bran, cottonseed meal, wheat standard middlings, mill run screenings, oats, barley, molasses, linseed meal, corn gluten meal, corn gluten feed, calcium carbonate, salt, soybean oil meal, malt sprouts.
Great Atlantic & Pacific Tea Co. New York, N. Y.	F.	25.08	3.49	55.70	8.25	7.48	8.92	
Phoenix 20 Dairy Ration Open Formula	G.	20.00	4.50	53.00	....	....	9.00	Corn meal, wheat bran, flour middlings, corn gluten feed, corn distillers' grains, brewers' grains, soybean oil meal, linseed meal, cottonseed meal, fish meal, oats, cane molasses, calcium phosphate, calcium carbonate, salt.
Great Eastern Feed Mills Lowell, Mass.	F.	22.86	4.91	56.94	7.08	8.21	10.85	
Phoenix 24 Dairy Ration Open Formula	G.	24.00	5.00	49.00	....	....	9.00	Soybean oil meal, linseed meal, cottonseed meal, brewers' grains, corn distillers' grains, corn gluten feed, corn meal, wheat bran, flour middlings, oats, fish meal, cane molasses, calcium phosphate, calcium carbonate, salt.
Great Eastern Feed Mills Lowell, Mass.	F.	25.56	5.00	54.66	6.94	7.84	9.16	
20% Open Formula Dairy Feed	G.	20.00	4.50	53.00	....	....	8.00	Yellow hominy, wheat bran, dried distillers' grains, corn gluten feed, cottonseed meal, soybean oil meal, molasses, oats, dicalcium phosphate, salt.
E. C. & W. L. Hopkins Greenfield, N. H.	F.	21.75	4.76	56.53	7.37	9.59	8.00	
Granite State 20% Dairy Feed	G.	20.00	4.00	50.00	....	....	11.00	Corn meal, gluten feed, cottonseed meal, linseed meal, malt grains, wheat bran, soybean oil meal, distillers' dried grains, molasses, bone meal, calcium carbonate, kelp.
E. C. & W. L. Hopkins Greenfield, N. H.	F.	21.27	4.80	56.21	8.62	9.10	8.78	
Granite State 24% Dairy Feed	G.	24.00	4.00	48.00	....	....	10.00	Gluten feed, corn meal or hominy, linseed meal, wheat bran, cottonseed meal, malt grains, molasses, barley, oats, distillers' grains, soybean meal, bone meal, calcium carbonate, kelp.
E. C. & W. L. Hopkins Greenfield, N. H.	F.	24.65	3.93	51.86	11.14	8.42	8.96	
Granite State Fitting Ration	G.	12.00	3.50	54.00	....	....	8.00	Wheat bran, wheat middlings, corn meal, hominy, molasses, oats, linseed meal, soybean oil meal, calcium carbonate, kelp.
E. C. & W. L. Hopkins Greenfield, N. H.	F.	14.93	4.39	63.59	6.71	10.38	6.46	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Crude Fiber	Certified by Manufacturer to Contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture		
P and Q 20% Dairy	G. 20.00	3.50	50.00	....	....	11.00	Wheat bran, wheat middlings, gluten meal, dried distillers' grains, soybean oil meal, cottonseed meal, oat feed, calcium carbonate, salt, molasses.
E. C. & W. L. Hopkins . . . Greenfield, N. H.	F. 21.76	3.84	54.72	9:52	10.16	10.81	
Swain's Dairy Feed	G. 20.00	4.00	55.00	....	....	9.00	Linseed meal, cottonseed meal, corn meal, corn gluten meal, oats, wheat bran, dried beet pulp, calcium carbonate, salt.
E. C. & W. L. Hopkins . . . Greenfield, N. H.	F. 22.11	4.26	56.46	5.98	11.19	9.44	
Independent 20% Dairy Ration Open Formula	G. 20.00	4.50	53.00	....	....	8.00	Wheat bran, mill run wheat screenings, hominy feed, cottonseed meal, distillers' dried grains, brewers' dried grains, oats, corn gluten feed, soybean oil meal, cane molasses, dicalcium phosphate, salt.
Independent Grain Dealers' Association Manchester, N. H.	F. 17.06	4.19	60.79	7.56	10.40	10.39	
Independent 24% Dairy Ration Open Formula	G. 24.00	4.50	49.00	....	....	9.00	Cottonseed meal, distillers' corn dried grains, corn gluten feed, wheat bran, mill run wheat screenings, soybean oil meal, yellow corn meal, oats, cane molasses, linseed meal, dicalcium phosphate, salt.
Independent Grain Dealers' Association Manchester, N. H.	F. 25.70	4.24	53.27	6.53	10.26	9.48	
Johnson's Dairy Feed	G. 16.00	3.00	56.00	....	....	9.00	Corn meal, linseed meal, cottonseed meal, oats, wheat bran, gluten feed, salt.
Ralph P. Johnson Potter Place, N. H.	F. 18.56	4.06	60.67	6.93	9.78	7.46	
Apex 20% Dairy Ration	G. 20.00	3.50	50.00	....	....	12.00	Malt sprouts, dried brewers' grains, corn distillers' grains, soybean meal, cottonseed meal, corn gluten feed, corn gluten meal, wheat bran, grain screenings, oat-mill feed, cane molasses, salt, calcite.
Kasco Mills Waverly, N. Y.	F. 24.08	4.45	53.98	8.90	8.59	8.39	
Beatsall Milk Grains	G. 22.00	4.00	50.00	....	....	10.00	Wheat bran, wheat middlings, mill run screenings, linseed meal, corn gluten feed, cottonseed meal, soybean meal, hominy feed, salt, calcite, beet pulp, molasses, corn gluten meal, corn distillers' grains.
Kasco Mills Waverly, N. Y.	F. 25.52	4.55	53.42	7.46	9.05	7.77	

Kasco 16% Dairy Feed	G. 16.00	3.50	50.00	. . . . .	12.00	Wheat bran, corn gluten feed, cottonseed meal, oats, barley, corn meal, grain screenings, molasses, salt, calcite, corn gluten meal, oat mill feed, soybean meal, malt sprouts, brewers' grains, corn distillers' grains.
Kasco Mills Waverly, N. Y.	F. 20.84	4.07	55.54	. . . . . 9.92 9.63	8.26	
Larro: The Ready Ration	G. 20.00	3.75	57.00	. . . . .	12.00	Cottonseed meal, yellow corn meal, standard wheat middlings, soybean oil meal, linseed meal, corn gluten feed, beet pulp, wheat bran, salt.
Larroe Milling Co. Detroit, Mich.	F. 22.46	3.93	58.00	. . . . . 6.35 9.26	10.15	
Larroe's 16 Dairy Feed	G. 16.00	3.00	63.00	. . . . .	11.00	Cottonseed meal, corn gluten feed, wheat standard middlings, linseed meal, yellow corn meal, dried beet pulp, wheat bran, salt.
Larroe Milling Co. Detroit, Mich.	F. 19.17	3.55	62.55	. . . . . 6.14 8.59	9.39	
B-B Hi-Test Dairy Feed 20% Sweetened	G. 20.00	4.00	50.00	. . . . .	12.00	Dried brewers' grains, cottonseed meal, corn gluten feed, soybean oil meal, hominy feed, oats, corn meal, grain screenings, wheat bran, molasses, steamed bone meal, calcium carbonate, salt.
Maritime Milling Co. Buffalo, N. Y.	F. 22.15	5.07	54.16	. . . . . 8.90 9.72	8.92	
B-B Marmico Dairy Feed 16% with Molasses	G. 16.00	4.00	58.00	. . . . .	12.00	Dried brewers' grains, soybean oil meal, cottonseed meal, corn gluten feed, corn meal, grain screenings, wheat bran, oat hulls, oat shorts, oat middlings, molasses, steamed bone meal, calcium carbonate, salt.
Maritime Milling Co. Buffalo, N. Y.	F. 19.35	4.28	57.11	. . . . . 9.35 9.91	10.59	
Merrimack Dairy Ration	G. 20.00	4.00	50.00	. . . . .	10.00	Corn gluten feed, linseed meal, cottonseed meal, corn meal, wheat bran, wheat middlings, oats, salt, calcium carbonate, bone meal, soybean oil meal, brewers' grains.
Merrimack Farmers' Exchange Concord, N. H.	F. 21.36	4.60	56.37	. . . . . 8.39 9.28	7.79	
Merrimack Eureka Dairy Ration	G. 20.00	4.00	55.00	. . . . .	11.00	Oat mill feed, gluten feed, cottonseed meal, wheat bran, gluten meal, soybean meal, molasses, limestone, salt.
Merrimack Farmers' Exchange Concord, N. H.	F. 20.53	3.42	57.44	. . . . . 8.00 10.61	10.82	
Merrimack Fitting Ration	G. 14.00	4.50	60.00	. . . . .	8.00	Soybean oil meal, oats, corn meal, wheat bran, linseed meal, bone meal, calcium carbonate, salt.
Merrimack Farmers' Exchange Concord, N. H.	F. 15.59	4.80	63.53	. . . . . 6.84 9.24	6.82	
Merrimack Fodder Ration	G. 10.00	2.00	50.00	. . . . .	25.00	Dried beet pulp, dried brewers' grains, oat mill feed, molasses.
Merrimack Farmers' Exchange Concord, N. H.	F. 16.90	2.34	63.38	. . . . . 7.66 9.72	16.39	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Crude Fiber	Certified by Manufacturer to Contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture		
Merrimack Milk Ration							
Sweetened	G. 20.00	4.00	53.00	.....	.....	8.50	Wheat bran, wheat middlings, gluten feed, gluten meal,
Merrimack Farmers' Exchange Concord, N. H.	F. 21.10	4.21	56.41	8.86	9.42	7.64	linseed meal, soybean oil meal, cottonseed meal, oats, corn meal, dried brewers' grains, molasses, bone meal, calcium carbonate, salt.
Morrill's Dairy Ration	G. 20.00	3.50	50.00	.....	.....	9.00	Corn gluten feed, linseed meal, oats, cottonseed meal,
J. H. Morrill Laconia, N. H.	F. 21.93	3.53	58.70	5.66	10.16	8.12	corn meal, wheat bran, salt, calcium carbonate.
New England Economy 20% Dairy Feed	G. 20.00	4.00	45.00	.....	.....	10.50	Gluten feed, cottonseed meal, wheat bran, wheat mid-
New England Grain Co. Portland, Maine	F. 20.09	3.73	57.99	7.28	10.91	12.76	dlings, soybean meal, oat by-products, linseed meal, dried distillers' grains, corn meal, molasses, salt.
Bidwell 20% Dairy Ration	G. 20.00	4.00	58.00	.....	.....	11.00	Wheat bran, linseed meal, soybean meal, barley, cotton-
Park & Pollard Co. Boston, Mass.	F. 19.67	3.52	56.95	9.61	10.25	10.90	seed meal, gluten feed, gluten meal, wheat screenings, malt sprouts, molasses, calcium carbonate, salt.
Bidwell 24% Dairy Ration	G. 24.00	4.00	55.00	.....	.....	11.00	Wheat bran, linseed meal, soybean meal, barley, cotton-
Park & Pollard Co. Boston, Mass.	F. 23.73	4.33	53.19	8.98	9.77	7.87	seed meal, corn gluten feed, grain screenings, malt sprouts, corn gluten meal, molasses, calcium carbonate, salt.
Manamar 20% Dairy Ration	G. 20.00	4.00	50.00	.....	.....	9.00	Kelp, fish meal, sea shells, corn distillers' grains,
Park & Pollard Co. Boston, Mass.	F. 21.62	4.92	54.97	9.73	8.76	8.90	linseed meal, soybean oil meal, malt sprouts, wheat bran, brewers' dried grains, hominy feed, oats, molasses, calcium carbonate, salt.
Manamar Doublex 20% Dairy Ration	G. 20.00	4.00	50.00	.....	.....	10.00	Kelp, fish meal, sea shells, linseed meal, gluten feed,
Park & Pollard Co. Boston, Mass.	F. 19.70	4.01	58.41	8.49	9.39	8.60	gluten meal, soybean meal, barley, wheat bran, malt sprouts, cottonseed meal, hominy, grain screenings, molasses, calcium carbonate, salt.

Milk Maid Sweetened 24% Dairy Ration	G. 24.00	4.00	50.00	.....	.....	11.00	Corn gluten feed, linseed meal, cottonseed meal, distillers' dried grains, soybean meal, wheat bran, brewers' dried grains, malt sprouts, corn gluten meal, corn meal, fish meal, molasses, calcium carbonate, salt.
Park & Pollard Co. Boston, Mass.	F. 23.27	3.87	54.67	9.06	9.13	8.97	
New Hampshire Ration	G. 20.00	3.00	45.00	.....	.....	9.00	Gluten feed, gluten meal, cottonseed meal, linseed meal, bran, hominy, brewers' grains, molasses, bone meal, salt, limestone.
Park & Pollard Co. Boston, Mass.	F. 20.84	3.49	57.62	8.36	9.69	5.99	
Yankee 20% Dairy Ration	G. 20.00	3.50	55.00	.....	.....	9.00	Corn gluten feed, cottonseed meal, wheat bran, wheat middlings, corn gluten meal, linseed meal, oats, corn meal, brewers' grains, molasses, calcium carbonate, salt.
Park & Pollard Co. Boston, Mass.	F. 20.66	3.30	56.74	9.27	10.03	7.51	
Quaker 20% Dairy Ration	G. 20.00	3.00	57.00	.....	.....	12.00	Hominy feed, barley meal, cottonseed meal, corn gluten feed, soybean oil meal, wheat bran, wheat standard middlings, oat mill feed, salt, iodized limestone, molasses.
Quaker Oats Co. Chicago, Ill.	F. 19.39	3.20	60.38	8.66	8.37	11.04	
Quaker 24% Dairy Ration	G. 24.00	4.00	52.00	.....	.....	12.00	Hominy feed, yellow hominy feed, cottonseed meal, corn gluten feed, soybean oil meal, wheat bran, wheat standard middlings, oat mill feed, salt, iodized limestone, molasses.
Quaker Oats Co. Chicago, Ill.	F. 25.26	3.91	54.18	8.01	8.64	11.28	
Protona 1% Dairy Feed	G. 16.00	3.50	54.00	.....	.....	14.00	Linseed meal, soybean oil meal, gluten feed, alfalfa meal, wheat middlings, cottonseed meal, molasses, grain screenings, wheat bran, calcium carbonate, iodized salt.
Ralston Purina Co. St. Louis, Mo.	F. 18.69	3.58	59.03	9.33	9.37	8.69	
Protona 20% Dairy Feed	G. 20.00	3.50	50.00	.....	.....	12.00	Linseed meal, soybean oil meal, cottonseed meal, gluten feed, wheat middlings, alfalfa meal, wheat bran, grain screenings, molasses, calcium carbonate, iodized salt.
Ralston Purina Co. St. Louis, Mo.	F. 22.37	4.02	54.22	9.63	9.76	9.34	
Purina Blue Checker Cow Chow 20%	G. 20.00	4.00	57.00	.....	.....	12.00	Dried beet pulp, linseed meal, soybean oil meal, corn gluten feed, cottonseed meal, distillers' corn dried grains, brewers' dried grains, wheat middlings, wheat bran, corn meal, alfalfa meal, molasses, calcium carbonate, iodized salt.
Ralston Purina Co. St. Louis, Mo.	F. 22.98	4.34	55.21	7.97	9.50	11.13	
Purina Dry and Fitting Chow	G. 12.50	2.50	59.00	.....	.....	14.00	Soybean oil meal, oats, dried beet pulp, corn meal, alfalfa meal, wheat middlings, wheat bran, molasses, calcium carbonate, iodized salt.
Ralston Purina Co. St. Louis, Mo.	F. 14.32	2.74	62.33	9.86	10.75	11.06	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff						Crude Fiber	Certified by Manufacturer to Contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture			
Purina Green Checker Cow Chow 24%	G. 24.00	4.00	49.00	12.00	Linseed meal, soybean oil meal, corn gluten feed, cottonseed meal, distillers' corn dried grains, brewers' dried grains, wheat middlings, wheat bran, alfalfa meal, molasses, calcium carbonate, iodized salt.	
Ralston Purina Co. St. Louis, Mo.	F. 26.64	4.83	51.87	8.27	8.39	10.64		
Spaulding's Dairy Feed	G. 20.00	4.00	50.00	10.00	Linseed meal, cottonseed meal, gluten feed, corn meal or hominy feed, rye distillers' grains or brewers' grains, wheat bran or wheat middlings, mill run screenings, salt, calcium carbonate, molasses.	
F. B. Spaulding Co. Lancaster, N. H.	F. 21.32	3.79	57.53	6.83	10.53	8.64		
Champlain Valley Emergency 20 Dairy Ration	G. 20.00	3.50	56.00	8.50	Linseed meal, soybean oil meal, cottonseed meal, brewers' dried grains, corn gluten meal, corn gluten feed, corn meal, hominy feed, oats, barley, wheat bran, wheat middlings, cane molasses, calcium carbonate, salt.	
St. Albans Grain Co. St. Albans, Vt.	F. 21.14	3.62	55.15	10.94	9.15	6.41		
Hygrade 20 Milk Ration	G. 20.00	3.50	54.00	8.50	Linseed meal, soybean oil meal, cottonseed meal, brewers' dried grains, corn gluten meal, corn gluten feed, corn meal, hominy feed, oats, barley, wheat bran, wheat middlings, cane molasses, calcium carbonate, salt.	
St. Albans Grain Co. St. Albans, Vt.	F. 22.33	3.76	55.47	9.43	9.01	6.25		
Hygrade 24 Milk Ration	G. 24.00	3.50	50.00	9.00	Corn gluten meal, corn gluten feed, linseed meal, soybean oil meal, cottonseed meal, brewers' dried grains, corn meal, hominy feed, oats, barley, wheat bran, wheat middlings, calcium carbonate, salt, cane molasses.	
St. Albans Grain Co. St. Albans, Vt.	F. 25.83	3.51	53.88	7.91	8.87	6.15		
Utility 16 Dairy Ration	G. 16.00	3.00	60.00	13.00	Linseed meal, corn gluten meal, corn gluten feed, cottonseed meal, yellow corn meal, hominy feed, oats, barley, brewers' dried grains, oat meal mill by-products, wheat bran, wheat middlings, calcium carbonate, cane molasses, salt.	
St. Albans Grain Co. St. Albans, Vt.	F. 16.72	3.21	63.50	7.55	9.02	12.43		

Utility 20 Dairy Ration . . . St. Albans Grain Co. . . . St. Albans, Vt.	G. 20.00 F. 20.75	3.50 3.78	55.00 57.33	.... 9.96	8.18	12.00 10.15	Linseed meal, soybean oil meal, corn gluten feed, cottonseed meal, corn meal, oats, barley, brewers' dried grains, oat middlings, oat hulls, wheat bran, wheat middlings, hominy feed, calcium carbonate, cane molasses, salt.
Wirthmore 16 Dairy Ration . . . St. Albans Grain Co. . . . St. Albans, Vt.	G. 16.00 F. 17.77	4.00 4.92	60.00 59.88	.... 8.44	8.99	8.00 6.17	Corn gluten meal, corn distillers' dried grains, corn gluten feed, linseed meal, soybean oil meal, brewers' dried grains, yellow corn meal, hominy feed, oats, wheat bran, wheat middlings, cottonseed meal, calcium carbonate, cane molasses, steamed bone meal, salt.
Wirthmore 20 Dairy Feed Sweetened St. Albans Grain Co. . . . St. Albans, Vt.	G. 20.00 F. 21.80	4.50 4.25	58.00 58.49	.... 5.87	9.59	8.00 6.56	Corn gluten meal, corn distillers' dried grains, linseed meal, soybean oil meal, brewers' dried grains, cottonseed meal, corn gluten feed, yellow corn meal, oats, wheat middlings, wheat bran, bone meal, cane molasses, salt.
Wirthmore 25 Balanced Ration Sweetened St. Albans Grain Co. . . . St. Albans, Vt.	G. 25.00 F. 25.92	4.50 4.88	55.00 52.50	.... 8.53	8.17	8.50 7.59	Corn gluten meal, soybean oil meal, corn distillers' dried grains, linseed meal, oats, corn gluten feed, brewers' dried grains, cottonseed meal, wheat middlings, yellow corn meal, wheat bran, bone meal, salt, cane molasses.
Wirthmore 32 Supplement Dairy St. Albans Grain Co. . . . St. Albans, Vt.	G. 32.00 F. 33.62	4.00 4.02	45.00 46.58	.... 7.30	8.48	8.00 7.33	Gluten meal, gluten feed, soybean oil meal, linseed meal, cottonseed meal, wheat bran, wheat middlings, cane molasses, calcium carbonate, bone meal, salt.
Stafford County Dairy Feed . Stafford County Grain Mill . Rochester, N. H.	G. 18.00 F. 22.46	5.00 4.69	50.00 53.69	.... 9.97	9.19	9.00 8.84	Wheat bran, corn meal, oats, linseed meal, gluten feed, cottonseed meal, salt, bone meal, molasses.
Stratton's White Clover 20% Dairy Feed Stratton & Co. Concord, N. H.	G. 20.00 F. 23.25	4.00 3.39	50.00 56.82	.... 8.37	8.17	11.00 10.81	Wheat bran, linseed meal, oat hulls, oat shorts, oat middlings, gluten feed, barley, cottonseed meal, grain screenings, molasses, calcium carbonate, salt.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Crude Fiber	Certified by Manufacturer to Contain
	Protein	Fat	Carbo-hydrates	Ash	Mois-ture		
Just Right Dairy Ration 20%	G. 20.00	4.50	58.00	••••	••••	10.00	Corn gluten feed, oats, wheat bran, corn, linseed meal, cottonseed meal, salt, calcium carbonate, bone meal.
B. M. Varrell Grain Co. Fortsmouth, N. H.	F. 21.36	4.90	56.62	9.59	7.53	10.00	
Eventually Gold Medal Dairy Ration	G. 20.00	4.50	60.00	••••	••••	8.50	Wheat bran, wheat standard middlings, oats, yellow corn meal, corn Gluten feed, cottonseed meal, linseed meal, limestone, salt.
Washburn Crosby Co. Minneapolis, Minn.	F. 22.51	4.43	55.84	8.23	8.99	8.04	
Blue Seal "20" Dairy Ration	G. 20.00	4.50	54.00	••••	••••	7.50	Linseed meal, soybean oil meal, oats, malt sprouts, gluten feed, cottonseed meal, hominy feed, wheat bran, corn distillers' grains, brewers' grains, cane molasses.
H. K. Webster Co. Lawrence, Mass.	F. 20.66	4.03	58.64	6.45	10.22	7.90	
Blue Seal Beet Pulp Dairy Ration	G. 22.00	4.50	56.00	••••	••••	11.00	Beet pulp, soybean oil meal, gluten meal, malt sprouts, wheat bran, oat feed, cottonseed meal, peanut skins, germs and meal, hominy feed, brewers' grains, cane molasses.
H. K. Webster Co. Lawrence, Mass.	F. 23.90	3.44	56.70	6.44	9.52	9.89	
Blue Seal Fitting Ration	G. 13.00	4.50	64.00	••••	••••	7.00	Oats, linseed meal, soybean oil meal, corn meal, barley, wheat bran, hominy feed, cane molasses, cod liver oil.
H. K. Webster Co. Lawrence, Mass.	F. 13.66	4.95	64.28	6.45	10.66	8.21	
Blue Seal Hom-Mix 24% Dairy Ration	G. 24.00	5.00	53.00	••••	••••	9.00	Cottonseed meal, soybean oil meal, malt sprouts, gluten meal, oat feed, wheat bran, hominy feed, peanut skins, germs and meal, linseed meal, dried brewers' grains, cane molasses.
H. K. Webster Co. Lawrence, Mass.	F. 24.30	3.66	56.36	6.26	9.42	9.52	
Blue Seal Special 20% Dairy Ration	G. 20.00	4.50	55.00	••••	••••	10.00	Cottonseed meal, soybean oil meal, malt sprouts, gluten feed, wheat bran, hominy feed, peanut skins, germs and meal, linseed meal, dried brewers' grains, cane molasses, oat feed.
H. K. Webster Co. Lawrence, Mass.	F. 20.31	3.43	59.84	6.76	9.66	10.67	
Whiting 20% Dairy Ration	G. 20.00	4.00	55.00	••••	••••	11.00	Cottonseed meal, wheat bran, corn meal, linseed meal, oat mill by-products, corn gluten feed, wheat middlings, molasses, bone meal, salt.
David Whiting & Sons Wilton, N. H.	F. 21.58	4.31	57.63	6.86	9.62	10.77	

DISTILLERS' DRIED GRAINS										
G.	28.00	7.00	45.00	....	....	15.00				Corn, rye, barley.
F.	30.16	8.16	54.62	1.56	5.50	....			
Continental Distillers' Grains Continental Distilling Corp. . Philadelphia, Pa.										
G.	24.00	8.00	60.00	....	....	18.00				Corn, rye, malt.
F.	24.30	<u>6.95</u>	61.06	1.83	5.86	15.13				
"Neumond" 24% Distillers' Grains The Neumond Co. St. Louis, Mo.										
G.	28.00	8.00	45.00	....	....	15.00				
F.	26.31	<u>6.86</u>	55.18	2.71	8.94	....			
"Neumond" 28% Corn Distillers' Grain The Neumond Co. St. Louis, Mo.										
G.	30.00	6.00	48.00	....	....	14.00				
F.	32.22	10.43	50.24	1.24	5.87	....			
Hiram Walker & Sons Inc. Peoria, Ill.										
G.	28.00	8.50	45.00	....	....	13.00				
F.	29.15	10.38	52.04	1.94	6.49	....			
Corn Distillers' Dried Grains Wilber Feed Co. Inc. Jamestown, N. Y.										
G.	24.00	7.00	40.00	....	....	16.00				Corn, rye, malt.
F.	22.90	6.81	62.17	1.66	6.46	....			
Distillers' Dried Grains Wilber Feed Co. Inc. Jamestown, N. Y.										
FISH MEAL										
G.	55.00	0.10	....	....	....	1.00				
F.	60.24	1.47	....	28.74	7.63	....			
Gorton's Codfish Meal Gorton Few Fisheries Co. Ltd. Gloucester, Mass.										
G.	55.00	15.00	....	....	....	1.00				
F.	55.04	<u>14.66</u>	....	17.84	11.13	....			
Maine Vitamin D Fish Meal Maine Fish Meal Co. Portland, Me.										

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Crude Fiber	Certified by Manufacturer to Contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture		
FOX MEAL							
Wayne Fox Food	G. 30.00	4.00	39.00	....	....	4.00	Beef scraps, liver meal, fish meal, wheat germ meal,
Allied Mills Inc. Chicago, Ill.	F. 30.04	5.81	47.31	9.24	7.60	3.51	corn flakes, whole wheat flakes, soybean oil meal, dried skimmed milk, dried buttermilk, dried tomato pulp, oats, barley malt, alfalfa meal, wheat bran, sardine oil, cane molasses, charcoal, steamed bone meal, iron oxide, potassium iodide, calcium car- bonate, copper sulphate, manganese sulphate, calcium gluconate, salt.
GLUTEN FEED							
Cream of Corn Gluten Feed . .	G. 25.00	2.00	58.50	....	....	8.50	
American Maize Products Co. . New York, N. Y.	F. 28.89	2.60	54.02	6.06	8.43	....
Clinton Corn Gluten Feed . .	G. 25.00	2.00	57.00	....	....	8.50	
Clinton Co. Clinton, Iowa	F. 27.71	3.67	53.20	6.84	8.58	....
Buffalo Corn Gluten Feed . .	G. 25.00	2.00	57.00	....	....	8.50	
Corn Products Refining Co. . . New York, N. Y.	F. 26.09	2.04	56.52	6.84	8.51	....
Staley's Corn Gluten Feed . .	G. 25.00	1.00	53.00	....	....	8.00	
A. E. Staley Mfg. Co. Decatur, Ill.	F. 28.81	2.53	51.68	8.87	8.11	....
Union Corn Gluten Feed . . .	G. 25.00	1.00	50.00	....	....	8.00	
Union Starch & Refining Co. . Columbus, Ind.	F. 27.10	1.58	54.45	6.53	10.34	....
GLUTEN MEAL							
Douglas Corn Gluten Meal . .	G. 43.00	1.00	42.00	....	....	4.00	
Penick & Ford Cedar Rapids, Iowa	F. 44.98	2.28	43.10	2.48	7.16	....

HOG FEED

Wayne Pork Maker G. 14.00 3.50 57.00 7.00
 Allied Mills F. 14.63 4.84 62.47 7.31 10.75 4.88
 Chicago, Ill.

Kasco Fig-Hog Feed G. 17.00 4.50 60.00 7.50
 Kasco Mills F. 18.74 5.25 59.39 6.58 10.04 6.96
 Waverly, N. Y.

HOMINY FEED

Homco Hominy Feed G. 10.00 6.00 61.00 6.00
 Decatur Milling Co. F. 10.02 7.03 69.96 2.46 10.53
 Decatur, Ill.

O-Corn-O Hominy Feed G. 10.00 6.50 65.00 5.00
 Kellogg Co. of Canada F. 9.75 6.89 72.89 1.81 8.66
 London, Ont.

Choice Steam Cooked Hominy Feed G. 10.00 5.00 60.00 5.00
 Miner-Hillard Milling Co. F. 10.98 6.01 70.44 2.79 9.78
 Wilkes Barre, Pa.

Hominy Feed G. 10.00 7.00 67.00 7.00
 Washburn Crosby Co. F. 10.72 6.78 70.35 2.85 9.30 6.49
 Minneapolis, Minn.

KELP

Kelco Meal G. 3.00 0.10 40.00 10.00
 Kelco Co. F. 5.30 0.47 52.33 31.44 10.46 6.51
 Chicago, Ill.

LINSEED MEAL

K & M Brand 34% Protein Old
 Process Linseed Meal G. 34.00 5.00 38.00 8.00
 Kelloggs & Miller F. 36.99 5.46 42.02 6.04 9.49
 Amsterdam, N. Y.

Digester tankage, oats, corn meal, wheat standard middlings, alfalfa meal, cane molasses, limestone, steamed bone meal, iron oxide, potassium iodide, copper sulphate, salt.

Wheat red dog flour, barley, corn meal, linseed meal, soybean meal, wheat middlings, mill run screenings, corn germ meal, fish meal, digester tankage, salt, calcite, iron oxide, alfalfa meal.

Hominy feed.

Kelp.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Crude Fiber
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	
Pure Old Process 37% Linseed Meal	G. 37.00	4.50	39.00	.....	.....	9.00
The Sherwin-Williams Co. Cleveland, Ohio	F. 39.80	5.36	40.36	5.55	8.93	.....
Kelloggs 37% Old Process Linseed Meal	G. 37.00	4.50	41.00	.....	.....	9.00
Spencer Kellogg & Sons Buffalo, N. Y.	F. 38.22	4.98	40.40	5.67	10.73	.....
MEAT SCRAPS						
Corenco 45% Meat & Bone Scrap Consolidated Rendering Co. Boston, Mass.	G. 45.00	6.00	.....	.....	.....	.....
F. 46.49	8.65	.....	35.35	7.28	.....	.....
Corenco 50% Meat & Bone Scrap Consolidated Rendering Co. Boston, Mass.	G. 50.00	6.00	.....	.....	.....	.....
F. 50.13	9.77	.....	30.14	6.80	.....	.....
Morse's 45% Meat Scraps James F. Morse & Co. Somerville, Mass.	G. 45.00	8.00	.....	.....	.....	.....
F. 42.18	8.58	.....	38.55	7.02	.....	.....
Register Brand Meat and Bone Scrap John Reardon & Sons Co. Cambridge, Mass.	G. 45.00	6.00	.....	.....	.....	.....
F. 45.18	11.90	.....	37.14	4.85	.....	.....
DRIED SKIMMED MILK						
Buell-Boston Dried Skim Milk C. E. Buell Boston, Mass.	G. 31.00	0.20	.....	.....	.....	.....
F. 34.19	0.73	52.29	7.90	4.89	.....	.....
Dairy Lea Dried Skim Milk Dairymen's League Cooperative Association Utica, N. Y.	G. 33.00	0.50	.....	.....	.....	.....
F. 34.19	0.78	51.82	8.42	4.79	.....	.....

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Certified by Manufacturer to Contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture		Crude Fiber
Wayne Egg Mash with Sardine Oil	G. 18.00	3.50	52.00	....	....	Dried buttermilk, dried skimmed milk, meat scraps, fish meal, wheat standard middlings, wheat bran, corn meal, oat meal, corn gluten feed, alfalfa meal, soybean oil meal, oats, limestone, iron oxide, potassium iodide, salt, sardine oil.
Allied Mills Chicago, Ill.	F. 19.22	5.91	56.80	8.54	9.53	5.88
Wayne Growing Mash with Sardine Oil	G. 16.00	4.00	56.00	....	....	Dried buttermilk, dried skimmed milk, meat scraps, fish meal, wheat standard middlings, corn meal, oat meal, alfalfa meal, soybean oil meal, wheat bran, limestone, iron oxide, potassium iodide, salt, sardine oil.
Allied Mills Chicago, Ill.	F. 17.60	5.48	58.28	9.06	9.58	4.49
Wayne Mash Concentrate with Sardine Oil	G. 32.00	4.00	38.00	....	....	Dried buttermilk, dried skimmed milk, fish meal, peanut oil meal, meat scraps, soybean oil meal, corn gluten meal, corn gluten feed, alfalfa meal, limestone, iron oxide, potassium iodide, salt, sardine oil.
Allied Mills Chicago, Ill.	F. 36.64	5.15	31.95	19.16	7.10	5.69
Wayne Poultry Fattener	G. 13.50	3.50	63.00	....	....	Yellow corn meal, corn germ oil meal, white hominy feed, oats, oat flour, wheat standard middlings, wheat red dog flour, linseed meal, salt.
Allied Mills Chicago, Ill.	F. 13.63	4.95	67.80	3.76	9.86	6.37
Pennant Brand Chick Starter	G. 17.00	5.00	55.00	....	....	Wheat bran, yellow corn meal, wheat red dog flour, oat groats, dried skimmed milk, beef scraps, charcoal, bone meal, leaf alfalfa meal, salt, cod liver oil, cod liver meal.
E. W. Bailey & Co. Montpelier, Vt.	F. 18.56	4.83	58.98	6.51	11.12	5.48
Pennant Brand Laying Mash	G. 20.00	5.00	50.00	....	....	Cod liver oil, cod liver meal, hominy feed, yellow corn meal, wheat red dog flour, gluten feed, oat groats, wheat bran, wheat standard middlings, beef scraps, dried skimmed milk, alfalfa leaf meal, salt, calcium carbonate.
E. W. Bailey & Co. Montpelier, Vt.	F. 21.93	4.80	53.28	9.97	10.02	5.07
Barco Special Chick Starter	G. 14.00	4.00	40.00	....	....	Wheat bran, corn meal, red dog middlings, oat groats, dried skimmed milk, beef scraps, charcoal, bone meal, alfalfa leaf meal, cod liver meal, salt, cod liver oil.
G. N. Bartemus Co. Concord, N. H.	F. 18.12	4.66	58.97	9.29	8.96	5.51

Barco Special Mash Feed with Cod Liver Oil	G. 20.00	5.00	50.00	.....	6.00	Hominy, gluten feed, white middlings, oats, wheat bran, beef scraps, dried skimmed milk, alfalfa leaf meal, salt, cod liver oil.
G. N. Bartemus Co. Concord, N. H.	F. 23.12	5.56	52.13	9.16	6.08	
Concord Mash	G. 20.00	4.00	47.00	.....	8.00	Wheat bran, corn gluten feed, alfalfa leaf meal, oats, beef scraps, red dog middlings, dried skimmed milk, hominy, salt.
G. N. Bartemus Co. Concord, N. H.	F. 22.33	4.71	54.97	9.03	6.19	
Beacon Battery Laying Pellets Beacon Milling Co. Cayuga, N. Y.	G. 15.00	4.00	55.00	.....	7.00	Dried skimmed milk, dried buttermilk, fish meal, meat scraps, alfalfa leaf meal, oats, barley, wheat bran, wheat middlings, mill run screenings, corn meal, charcoal, salt, anti-rachitic oil, calcium phosphate, calcium carbonate.
F. 17.73	4.95	59.36	7.84	10.12	6.26	
Beacon Breeders' Mash with Buttermilk	G. 20.00	4.00	50.00	.....	7.00	Dried skimmed milk, dried buttermilk, meat scraps, fish meal, wheat middlings, corn meal, oats, barley, wheat bran, mill run screenings, alfalfa leaf meal, anti-rachitic oil, salt, calcium carbonate, protozyme.
Beacon Milling Co. Cayuga, N. Y.	F. 20.66	5.57	54.15	9.03	6.74	
Beacon Broiler Feed	G. 17.00	4.00	52.00	.....	6.00	Dried skimmed milk, meat scraps, fish meal, corn meal, oats, barley, wheat bran, mill run screenings, wheat red dog flour, alfalfa leaf meal, anti-rachitic oil, salt, calcium carbonate, calcium phosphate.
Beacon Milling Co. Cayuga, N. Y.	F. 17.82	4.96	57.64	10.02	4.75	
Beacon Cayuga Laying Mash with Buttermilk	G. 20.00	4.00	54.00	.....	7.00	Dried buttermilk, dried skimmed milk, fish meal, meat scraps, corn meal, alfalfa leaf meal, wheat bran, wheat middlings, mill run screenings, soybean oil meal, barley, corn gluten meal, oats, anti-rachitic oil, calcium carbonate, calcium phosphate, salt.
Beacon Milling Co. Cayuga, N. Y.	F. 20.71	5.12	55.97	8.52	6.49	
Beacon Complete Starting Ration	G. 17.50	4.00	50.00	.....	6.00	Dried skimmed milk, meat scraps, fish meal, corn meal, oats, barley, wheat bran, mill run screenings, wheat red dog flour, alfalfa leaf meal, anti-rachitic oil, calcium carbonate, calcium phosphate, salt.
Beacon Milling Co. Cayuga, N. Y.	F. 17.90	4.88	59.40	9.56	5.28	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs					Crude Fiber	Certified by Manufacturer to Contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture		
Beacon Egg Mash with Buttermilk	G. 22.00	4.50	48.00	.....	.....	7.00	Dried buttermilk, dried skimmed milk, meat scraps, fish meal, barley, oats, corn meal, alfalfa leaf meal, wheat bran, wheat middlings, mill run screen- ings, anti-rachitic oil, calcium carbonate, salt, protozyme.
Beacon Milling Co. Cayuga, N. Y.	F. 22.68	5.84	50.90	11.89	8.69	6.53	
Beacon Growing Mash	G. 17.00	4.00	55.00	.....	.....	7.00	Dried skimmed milk, meat scraps, fish meal, oats, barley, corn meal, wheat red dog flour, alfalfa leaf meal, wheat bran, wheat middlings, mill run screen- ings, anti-rachitic oil, calcium carbonate, calcium phosphate, salt.
Beacon Milling Co. Cayuga, N. Y.	F. 20.01	4.81	56.73	9.08	9.37	5.70	
Chase Growing Mash	G. 14.00	4.50	45.00	.....	.....	10.00	Corn meal, oat meal, wheat bran, wheat middlings, meat scraps, bone meal, charcoal, salt, dried buttermilk.
David C. Chase Smithtown, N. H.	F. 17.29	6.08	57.57	9.89	9.17	7.50	
Chase Laying Mash	G. 18.00	4.50	45.00	.....	.....	10.00	Corn meal, oat meal, wheat bran, wheat middlings, meat scraps, corn gluten feed, dried skimmed milk, salt, charcoal.
David C. Chase Smithtown, N. H.	F. 21.76	5.33	53.35	9.99	9.57	7.12	
Corson's No. 1 Laying Mash	G. 18.00	5.00	64.00	.....	.....	7.00	Wheat bran, wheat middlings, corn meal, oat mill feed, barley, fish scraps, alfalfa leaf meal, dried skimmed milk, soybean oil meal, salt, cod liver oil.
Freeman Corson Rochester, N. H.	F. 19.62	4.66	54.71	10.43	10.58	6.74	
Coweco Starting Mash	G. 17.00	4.50	45.00	.....	.....	6.00	Corn meal, oat meal, wheat bran, wheat middlings, alfalfa leaf meal, fish meal, soybean meal, dried skimmed milk, meat scraps, bone meal, calcium carbonate, cod liver oil, salt.
E. A. Cowee Co. Fitchburg, Mass.	F. 17.00	4.50	57.50	10.22	10.78	7.02	
Coweco Sunrise Laying Mash	G. 16.00	3.50	50.00	.....	.....	8.00	Wheat bran, wheat middlings, corn meal, hominy, oats, gluten feed, soybean meal, meat scraps, al- falfa meal, bone meal, dried skimmed milk, cod liver oil, calcium carbonate, barley, salt.
E. A. Cowee Co. Fitchburg, Mass.	F. 20.26	4.44	50.88	15.08	9.34	6.03	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Crude Fiber	Certified by Manufacturer to Contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture		
Frederick Laying Mash	G. 18.00	4.00	53.00	.....	.....	8.00	Wheat bran, wheat middlings, corn feed meal, oats,
Dietrich & Gambrill	F. 19.65	4.72	58.15	7.54	9.94	5.84	Gluten meal, meat scraps, fish meal, alfalfa meal, soybean oil meal, barley, dried buttermilk, bone meal, calcium carbonate, salt, cod liver oil.
Gambrill's Growing Mash	G. 18.00	4.00	53.00	.....	.....	7.00	Wheat bran, wheat middlings, corn feed meal, peanut meal, malt flour, oat meal, gluten meal, meat scraps, fish meal, dried buttermilk, cod liver oil, alfalfa leaf meal, bone meal, calcium carbonate, salt.
Dietrich & Gambrill	F. 19.79	5.28	56.52	7.98	10.43	4.99	Yellow corn meal, wheat bran, mill run screenings, wheat flour middlings, oats, dried skimmed milk, alfalfa leaf meal, meat scraps, fish meal, oyster shell meal, sardine oil, dicalcium phosphate, salt.
Frederick, Md.							
Eastern States Combination							
Mash Open Formula	G. 15.00	4.00	57.00	.....	.....	6.50	Yellow corn meal, wheat bran, mill run screenings, wheat flour middlings, oats, dried skimmed milk, alfalfa leaf meal, meat scraps, fish meal, oyster shell meal, sardine oil, dicalcium phosphate, salt.
Eastern States Farmers' Exchange	F. 15.89	5.54	62.77	7.45	8.35	5.39	Yellow corn meal, wheat bran, mill run wheat screenings, wheat flour middlings, barley, oats, dried skimmed milk, soybean oil meal, alfalfa leaf meal, meat scraps, fish meal, dicalcium phosphate, oyster shell meal, sardine oil, salt.
Springfield, Mass.							
Eastern States Developer							
Open Formula	G. 18.50	4.00	53.00	.....	.....	6.50	Yellow corn meal, wheat bran, mill run wheat screenings, wheat flour middlings, barley, oats, dried skimmed milk, soybean oil meal, alfalfa leaf meal, meat scraps, fish meal, dicalcium phosphate, oyster shell meal, sardine oil, salt.
Eastern States Farmers' Exchange	F. 19.52	5.39	58.07	8.18	8.64	6.00	Yellow corn meal, wheat bran, mill run wheat screenings, wheat flour middlings, barley, oats, dried skimmed milk, soybean oil meal, alfalfa leaf meal, meat scraps, fish meal, dicalcium phosphate, oyster shell meal, sardine oil, salt.
Springfield, Mass.							
Eastern States Fattener Mash							
Open Formula	G. 14.50	4.00	63.00	.....	.....	5.00	Yellow corn meal, corn oil meal, oat groats, dried skimmed milk, wheat standard middlings, wheat red dog flour, oats, soybean oil meal, salt.
Eastern States Farmers' Exchange	F. 15.50	4.82	67.77	3.01	8.90	4.69	Yellow corn meal, yellow corn meal, wheat bran, oat groats, oyster shell meal, salt, dicalcium phosphate, sardine oil.
Springfield, Mass.							
Eastern States Flushing Mash							
Open Formula	G. 18.50	2.50	56.00	.....	.....	4.00	Yellow corn meal, wheat bran, mill run screenings, wheat bran, mill run screenings, meat scraps, oats, alfalfa leaf meal, dried skimmed milk, fish meal, soybean oil meal, oyster shell meal, sardine oil, dicalcium phosphate, salt, wheat flour middlings.
Eastern States Farmers' Exchange	F. 20.22	3.80	61.54	6.64	7.80	2.79	Yellow corn meal, wheat bran, mill run screenings, wheat bran, mill run screenings, meat scraps, oats, alfalfa leaf meal, dried skimmed milk, fish meal, soybean oil meal, oyster shell meal, sardine oil, dicalcium phosphate, salt, wheat flour middlings.
Springfield, Mass.							
Eastern States Producer 20							
Open Formula	G. 20.00	4.00	49.00	.....	.....	6.00	Yellow corn meal, wheat bran, mill run screenings, meat scraps, oats, alfalfa leaf meal, dried skimmed milk, fish meal, soybean oil meal, oyster shell meal, sardine oil, dicalcium phosphate, salt, wheat flour middlings.
Eastern States Farmers' Exchange	F. 21.80	6.85	52.12	11.36	7.87	5.50	Yellow corn meal, wheat bran, mill run screenings, wheat bran, mill run screenings, meat scraps, oats, alfalfa leaf meal, dried skimmed milk, fish meal, soybean oil meal, oyster shell meal, sardine oil, dicalcium phosphate, salt, wheat flour middlings.
Springfield, Mass.							

Eastern States Producer Mash Open Formula	G.	17.00	4.00	53.00	....	....	6.50	Yellow corn meal, wheat bran, mill run screenings, wheat flour middlings, oats, meat scraps, fish
Eastern States Farmers' Exchange Springfield, Mass.	F.	18.21	6.59	56.71	9.47	9.02	5.62	meal, alfalfa leaf meal, dried skimmed milk, oyster shell meal, sardine oil, dicalcium phosphate, salt.
Eastern States Starting and Broiler Ration Open Formula .	G.	18.50	4.00	53.00	....	....	5.00	Yellow corn meal, wheat bran, mill run screenings, wheat flour middlings, oat groats, dried skimmed
Eastern States Farmers' Exchange Springfield, Mass.	F.	19.74	5.58	57.36	8.23	9.09	4.52	milk, alfalfa leaf meal, meat scraps, fish meal, oyster shell meal, salt, sardine oil, dicalcium phosphate.
Eastern States Turkey-Fat Open Formula	G.	16.00	3.50	56.00	....	....	5.50	Yellow corn meal, wheat bran, mill run screenings, wheat flour middlings, oat groats, dried skimmed
Eastern States Farmers' Exchange Springfield, Mass.	F.	17.64	4.62	60.02	8.16	9.56	4.87	milk, oats, meat scraps, alfalfa leaf meal, soybean oil meal, corn gluten meal, oyster shell meal, dicalcium phosphate, salt.
Elmore Chixsaver	G.	16.50	4.00	55.00	....	....	8.00	Dried skimmed milk, wheat flour middlings, wheat bran,
Elmore Milling Co. Oneonta, N. Y.	F.	18.08	4.92	57.09	8.06	11.85	5.63	corn meal, alfalfa leaf meal, oat flour, meat and bone meal, fish meal, cod liver oil, salt, oyster shell flour.
Elmore Complete Laying Ration Elmore Milling Co. Oneonta, N. Y.	G.	16.00	4.00	60.00	....	....	6.00	Meat and bone meal, fish meal, oat groats, corn meal,
	F.	16.64	4.74	57.17	8.88	12.57	6.41	alfalfa leaf meal, wheat bran, wheat middlings, dried skimmed milk, cod liver oil, calcium carbonate, salt.
Elmore Egg Mash	G.	20.00	4.00	55.00	....	....	8.00	Oats, wheat middlings, meat meal, second clear wheat flour,
Elmore Milling Co. Oneonta, N. Y.	F.	20.62	4.55	53.48	9.48	11.87	5.32	oats, wheat middlings, corn meal, wheat bran, alfalfa leaf meal, fish meal, bone meal, cod liver oil, oyster shell flour, salt.
Eshelman Pennsy Laying Mash .	G.	18.00	5.00	50.00	....	....	8.00	Corn meal, wheat middlings, meat scraps, wheat bran,
John W. Eshelman & Sons Lancaster, Pa.	F.	20.84	6.80	53.72	9.58	9.06	7.11	oats, alfalfa meal, soybean oil meal, cane molasses, fish meal, corn gluten feed, linseed meal, calcium carbonate, salt.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Certified by Manufacturer to Contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture		Crude Fiber
Eshelman Red Rose All Mash Starter	G. 16.00	4.00	55.00	....	....	6.50
John W. Eshelman & Sons Lancaster, Pa.	F. 18.30	4.91	59.03	9.68	8.08	4.10
Eshelman Red Rose Growing Mash	G. 16.00	4.00	55.00	....	....	7.00
John W. Eshelman & Sons Lancaster, Pa.	F. 18.78	5.70	59.31	7.04	9.17	6.23
Eshelman Red Rose Laying Mash	G. 20.00	5.00	50.00	....	....	7.00
John W. Eshelman & Sons Lancaster, Pa.	F. 21.36	5.94	55.36	8.69	8.65	5.44
C Laying Mash	G. 15.00	4.00	55.00	....	....	8.50
Farm Service Stores Fitchburg, Mass.	F. 18.04	5.05	59.00	8.37	9.54	5.30
North Star Laying Mash	G. 20.00	5.00	45.00	....	....	6.50
Farm Service Stores Fitchburg, Mass.	F. 22.29	6.12	48.94	13.55	9.10	5.91
Henfield Egg Mash	G. 20.00	4.50	50.00	....	....	7.00
First National Stores Somerville, Mass.	F. 20.66	5.21	54.74	8.40	10.99	6.48
Grandin's Combined Chick and Broiler Ration	G. 15.00	4.00	50.00	....	....	6.00
D. H. Grandin Milling Co. Jamestown, N. Y.	F. 16.99	4.81	59.90	8.52	9.78	5.93

Corn meal, wheat bran, wheat middlings, oat meal, meat scraps, fish meal, soybean oil meal, alfalfa leaf meal, dried buttermilk, linseed meal, calcium carbonate, bone meal, salt, cod liver oil.

Wheat middlings, corn meal, wheat bran, meat scraps, oats, corn gluten feed, oat meal, hominy feed, linseed meal, fish meal, dried buttermilk, alfalfa meal, calcium carbonate, salt, cod liver oil.

Wheat middlings, corn meal, meat scraps, wheat bran, corn gluten feed, oats, linseed meal, fish meal, hominy feed, alfalfa meal, dried buttermilk, calcium carbonate, salt, cod liver oil.

Corn meal, wheat bran, wheat middlings, oats, meat scraps, bone meal, alfalfa meal, salt.

Corn meal, oats, alfalfa meal, wheat middlings, wheat bran, gluten feed, soybean meal, beef scraps, fish meal, dried milk, calcium carbonate, salt, cod liver oil.

Cod liver oil, meat scraps, fish meal, dried buttermilk, alfalfa meal, oats, hominy, corn meal, wheat middlings, wheat bran, wheat flour middlings, corn gluten feed, linseed meal, steamed bone meal, calcium carbonate, salt.

Cod liver oil, dried buttermilk, meat and bone scrap, fish meal, soybean oil meal, alfalfa leaf meal, oats, wheat bran, wheat middlings, barley, hominy feed, yellow corn meal, calcium carbonate, salt.

Grandin's Complete Laying Ration	G.	15.00	4.00	50.00	....	....	7.00	Dried buttermilk, cod liver oil, meat and bone scrap, fish meal, corn gluten meal, alfalfa meal, yellow corn meal, hominy feed, wheat, barley, oats, wheat bran, wheat middlings, mill run screenings, calcium carbonate, salt.
D. H. Grandin Milling Co. Jamestown, N. Y.	F.	17.64	4.66	60.10	7.46	10.14	4.93	
Grandin's Growing Mash	G.	15.00	4.00	50.00	....	....	8.00	Meat and bone scrap, dried buttermilk, corn gluten feed, wheat bran, wheat middlings, mill run screenings, corn meal, corn feed meal, hominy feed, oats, alfalfa meal, bone meal, calcium carbonate, salt, cod liver oil.
D. H. Grandin Milling Co. Jamestown, N. Y.	F.	16.94	5.77	56.48	12.12	8.69	6.27	
Grandin's Laying Mash	G.	20.00	4.00	50.00	....	....	8.00	Fish meal, meat and bone scrap, corn gluten feed, corn gluten meal, wheat bran, wheat middlings, mill run screenings, corn meal, corn feed meal, hominy feed, oats, dried buttermilk, alfalfa meal, calcium carbonate, salt, cod liver oil.
D. H. Grandin Milling Co. Jamestown, N. Y.	F.	21.62	5.30	51.69	12.26	9.13	6.19	
Grandin's Start-To-Finish Mash	G.	16.00	4.00	50.00	....	....	7.00	Cod liver oil, dried buttermilk, meat and bone scrap, fish meal, soybean oil meal, corn gluten feed, alfalfa leaf meal, yellow corn meal, hominy feed, oats, barley, wheat bran, wheat middlings, mill run screenings, calcium carbonate, salt.
D. H. Grandin Milling Co. Jamestown, N. Y.	F.	17.77	4.71	58.03	9.00	10.49	6.39	
Daily Egg Mash Feed	G.	20.00	4.50	56.00	....	....	7.00	Oats, barley, soybean oil meal, linseed meal, corn gluten meal, wheat standard middlings, wheat bran, alfalfa meal, corn feed meal, dried buttermilk, dried skimmed milk, meat and bone scrap, fish meal, flour middlings, cod liver oil, cod liver meal, calcium carbonate, steamed bone meal, salt.
Great Atlantic & Pacific Tea Co. New York, N. Y.	F.	21.93	4.88	53.27	10.28	9.64	5.34	
Daily Growth Chick Starter	G.	16.00	4.00	58.00	....	....	5.00	Dried buttermilk, dried skimmed milk, meat and bone scrap, wheat flour, wheat standard middlings, corn, corn feed meal, oats, oat groats, linseed meal, alfalfa meal, cod liver oil, calcium carbonate, salt, steamed bone meal.
Great Atlantic & Pacific Tea Co. New York, N. Y.	F.	17.90	4.72	61.22	7.13	9.03	4.77	
15% Growing Mash	G.	16.00	4.00	60.00	....	....	8.00	Corn feed meal, wheat bran, wheat standard middlings, oats, crab meal, wheat flour middlings, fish meal, alfalfa leaf meal, dried skimmed milk, salt cod liver oil, molasses, meat and bone scrap.
Great Eastern Feed Mills Lowell, Mass.	F.	17.51	4.60	57.19	11.41	9.29	4.72	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by Manufacturer to Contain
	Protein	Fat	Carbo- hydrates	Ash	Moisture	Crude Fiber	
Broiler Ration	G. 18.00	4.00	60.00	.....	.....	6.00	Yellow corn meal, oats, wheat, wheat bran, dried
Great Eastern Feed Mills . . Lowell, Mass.	F. 19.26	4.32	58.33	8.46	9.63	4.82	skimmed milk, flour middlings, alfalfa leaf meal, fish meal, crab meal, meat and bone scrap, calcium phosphate, calcium carbonate, salt, cod liver oil.
Phoenix 20% Laying Mash . . .	G. 20.00	4.00	51.00	.....	.....	7.00	Yellow corn meal, wheat bran, oats, wheat, fish meal, crab meal, meat and bone scrap, alfalfa leaf meal.
Great Eastern Feed Mills . . . Lowell, Mass.	F. 20.05	4.49	55.16	11.47	8.83	6.39	soybean oil meal, wheat flour middlings, dried skimmed milk, calcium carbonate, calcium phosphate, cod liver oil, salt.
Granite State Breeder Mash . .	G. 20.00	4.00	50.00	.....	.....	6.00	Corn meal, wheat middlings, wheat bran, barley, mea- scraps, fish meal, kelp, alfalfa leaf meal, oats, dried skimmed milk, calcium carbonate, cod liver oil.
E. C. & W. L. Hopkins Greenfield, N. H.	F. 20.44	4.55	51.72	12.38	10.91	5.72	
Granite State Chick Starter	G. 16.00	4.00	50.00	.....	.....	6.00	Yellow corn meal, wheat bran, wheat middlings, wheat red dog flour, oat meal, dried skimmed milk, meat scraps, alfalfa leaf meal, kelp, fish meal, charcoal, calcium carbonate, cod liver oil.
E. C. & W. L. Hopkins Greenfield, N. H.	F. 19.39	4.36	55.80	9.07	11.38	6.91	
Granite State Egg Mash	G. 19.00	4.00	50.00	.....	.....	5.50	Dried skimmed milk, oats, corn, wheat middlings, wheat bran, barley, meat scraps, alfalfa leaf meal, kelp, fish meal, calcium carbonate, salt.
E. C. & W. L. Hopkins Greenfield, N. H.	F. 20.14	4.44	51.73	12.57	11.12	5.69	
New Hampshire Laying Mash . .	G. 17.00	4.00	55.00	.....	.....	5.00	Yellow corn meal, wheat bran, wheat flour middlings, oats, meat scraps, dried skimmed milk, fish meal, alfalfa leaf meal, calcium carbonate, salt, cod liver oil.
E. C. & W. L. Hopkins Greenfield, N. H.	F. 17.34	4.42	56.96	11.13	10.15	6.32	
P and Q Complete Starting and Growing Ration	G. 16.00	4.00	50.00	.....	.....	7.00	Wheat bran, wheat middlings, corn meal, oats, wheat red dog flour, soybean oil meal, beef scraps, al- falfa meal, fish meal, dried skimmed milk, barley, calcium carbonate, salt, cod liver oil.
E. C. & W. L. Hopkins Greenfield, N. H.	F. 18.69	4.26	55.17	11.26	10.62	6.70	
P and Q Laying Mash	G. 17.00	3.50	52.00	.....	.....	8.00	Wheat bran, wheat middlings, corn meal, oats, barley, gluten feed, dried skimmed milk, soybean oil meal, beef scraps, alfalfa meal, calcium carbonate, salt, cod liver oil.
E. C. & W. L. Hopkins Greenfield, N. H.	F. 17.21	4.45	59.45	9.92	8.97	8.45	

Independent Chick Starter	G.	18.50	4.00	53.00	....	....	5.00	Corn meal, wheat bran, mill run screenings, wheat flour middlings, feeding oat meal, dried skimmed milk, alfalfa leaf meal, meat scraps, fish meal, oyster shell meal, salt, cod liver oil, dicalcium phosphate.
Independent Grain Dealers' Association Manchester, N. H.	F.	17.73	4.85	58.05	7.64	11.73	4.57	
Independent 20% Egg Mash	G.	20.00	4.00	49.00	....	....	6.00	Yellow corn meal, wheat bran, mill run wheat screenings, wheat flour middlings, meat scraps, oats, alfalfa leaf meal, fish meal, soybean oil meal, dried skimmed milk, oyster shell meal, cod liver oil, dicalcium phosphate, salt.
Open Formula	G.	19.70	4.96	52.66	11.89	10.79	4.98	
Independent Grain Dealers' Association Manchester, N. H.	F.	18.12	4.37	56.39	10.72	10.40	6.05	Corn meal, oats, wheat middlings, wheat bran, meat scraps, gluten feed, alfalfa meal, charcoal, soybean meal, dried skimmed milk, calcite flour, bone meal, cod liver oil, salt.
Johnson's Mash Feed	G.	18.00	4.00	50.00	....	....	7.00	
Ralph P. Johnson Potter Place, N. H.	F.	15.89	4.63	63.22	6.63	9.63	4.81	Wheat bran, wheat middlings, mill run screenings, corn meal, linseed meal, oats, meat scraps, bone meal, fish meal, soybean meal, dried skimmed milk, salt, calcite, cod liver oil, alfalfa meal, milk sugar feed.
Apex Complete Grower	G.	20.00	4.00	50.00	....	....	8.50	
Kasco Mills Waverly, N. Y.	F.	21.45	5.48	53.17	9.63	10.27	5.97	Wheat bran, wheat middlings, mill run screenings, corn meal, linseed meal, oats, meat scraps, bone meal, dried skimmed milk, milk sugar feed, salt, calcite, cod liver oil, alfalfa meal, fish meal, soybean oil meal.
Apex Laying Mash	G.	15.00	4.00	55.00	....	....	6.00	
Kasco Mills Waverly, N. Y.	F.	17.60	4.96	58.39	7.42	11.63	5.02	Oat meal, wheat middlings, wheat bran, corn meal, meat scraps, bone meal, fish meal, linseed meal, soybean oil meal, dried skimmed milk, milk sugar feed, alfalfa leaf meal, salt, calcite, cod liver oil.
Kasco All Mash Chick Food	G.	17.00	4.00	55.00	....	....	5.50	
Kasco Mills Waverly, N. Y.	F.	18.74	4.74	57.23	8.00	11.29	4.59	Wheat red dog flour, oat meal, wheat middlings, wheat bran, corn meal, meat scraps, fish meal, bone meal, linseed meal, dried skimmed milk, milk sugar feed, salt, cod liver oil, calcite, alfalfa leaf meal.
Kasco All Mash Growing Food	G.	14.00	4.00	55.00	....	....	5.50	
Kasco Mills Waverly, N. Y.	F.	14.93	4.92	63.58	6.73	9.84	4.27	Wheat red dog flour, oat meal, wheat middlings, wheat bran, mill run screenings, corn meal, meat scraps, fish meal, bone meal, linseed meal, dried skimmed milk, milk sugar feed, salt, calcite, cod liver oil, alfalfa leaf meal, oats.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Crude Fiber	Certified by Manufacturer to Contain
	Protein	Fat	Carbo- hydrates	Ash	Moisture		
Kasco All Mash Laying Food .	G. 15.00	4.00	55.00	....	....	6.00	Wheat, bran, wheat middlings, mill run screenings, corn meal, linseed meal, soybean meal, oat meal, barley,
Kasco Mills Waverly, N. Y.	F. 16.37	5.07	60.70	7.10	10.76	5.64	wheat red dog flour, meat scraps, bone meal, fish meal, dried skimmed milk, milk sugar feed, salt, calcite, cod liver oil, alfalfa meal, oats.
Kasco Laying Mash	G. 20.00	4.00	50.00	....	....	6.50	Wheat bran, wheat middlings, mill run screenings, corn meal, linseed meal, soybean meal, oat meal, wheat red
Kasco Mills Waverly, N. Y.	F. 20.71	4.81	53.72	10.97	9.79	5.88	dog flour, oats, meat scraps, bone meal, fish meal, dried skimmed milk, milk sugar feed, salt, calcite, cod liver oil, alfalfa meal.
Larro Chick Builder	G. 19.00	4.00	53.00	....	....	7.00	Wheat bran, yellow corn meal, wheat standard middlings, barley, meat and bone scrap, soybean oil meal, fish
Larroe Milling Co. Detroit, Mich.	F. 20.79	5.25	54.67	9.75	9.54	6.96	meal, alfalfa meal, dried skimmed milk, dried butter-milk, oats, cod liver oil, limestone, salt.
Larro Chick Starter	G. 16.50	4.50	55.50	....	....	5.50	Yellow corn meal, oat groats, wheat standard middlings, wheat bran, meat and bone scrap, dried buttermilk,
Larroe Milling Co. Detroit, Mich.	F. 18.13	5.57	57.79	8.95	9.56	5.42	dried skimmed milk, alfalfa meal, limestone, salt, cod liver oil.
Larroe Egg Mash	G. 19.00	4.00	52.50	....	....	7.50	Wheat bran, wheat standard middlings, yellow corn meal, meat and bone scrap, barley, soybean oil meal, oats,
Larroe Milling Co. Detroit, Mich.	F. 20.79	5.05	55.27	9.68	9.21	7.28	alfalfa meal, dried skimmed milk, dried buttermilk, limestone, salt, cod liver oil.
B-B Daisy Egg Mash	G. 20.00	3.50	55.00	....	....	9.00	Cod liver oil, dried buttermilk, alfalfa meal, wheat bran, wheat middlings, mill run screenings, soybean
Maritime Milling Co. Buffalo, N. Y.	F. 20.92	4.46	54.92	9.12	10.58	7.06	oil meal, corn gluten meal, corn meal, barley, oats, meat meal, fish meal, steamed bone meal, calcium carbonate, salt.
Bull Brand Breeders' Laying Mash	G. 20.00	4.50	50.00	....	....	7.00	Cod liver oil, milk sugar feed, dried buttermilk, alfalfa meal, wheat bran, wheat middlings, mill run
Maritime Milling Co. Buffalo, N. Y.	F. 21.80	4.66	54.01	8.91	10.62	5.55	screenings, soybean oil meal, corn meal, barley, oat meal, meat meal, fish meal, steamed bone meal, calcium carbonate, salt.

Bull Brand Laying Mash Maritime Milling Co. Buffalo, N. Y.	G.	20.00	4.50	50.00	.....	.....	7.00	Cod liver oil, milk sugar feed, dried buttermilk, alfalfa meal, wheat bran, wheat middlings, mill run screenings, soybean oil meal, corn gluten meal, fish meal, steamed bone meal, calcium carbonate, salt, potassium iodide.
	F.	21.41	4.72	54.98	9.03	9.86	7.14	
Dollar Maker Egg Mash Maritime Milling Co. Buffalo, N. Y.	G.	17.00	3.50	50.00	.....	.....	9.00	Cod liver oil, dried buttermilk, alfalfa meal, wheat bran, wheat middlings, mill run screenings, soybean oil meal, corn gluten feed, wheat, corn meal, barley, oats, meat meal, fish meal, bone meal, calcium carbonate, salt.
	F.	19.39	4.83	57.17	8.87	9.74	7.73	
Merrimack All Mash Merrimack Farmers' Exchange Concord, N. H.	G.	15.00	4.00	60.00	.....	.....	6.00	Corn meal, soybean meal, oat groats, wheat bran, cracked wheat, alfalfa meal, meat scraps, fish meal, dried skimmed milk, cod liver meal, bone meal, calcite flour, cod liver oil.
	F.	15.37	4.80	61.82	7.01	11.00	4.19	
Merrimack Baby Chick Starter Merrimack Farmers' Exchange Concord, N. H.	G.	16.00	4.00	50.00	.....	.....	4.00	Soybean oil meal, corn meal, wheat middlings, wheat bran, alfalfa leaf meal, meat scraps, fish meal, oat groats, dried skimmed milk, bone meal, salt, calcium carbonate, cod liver meal.
	F.	17.47	4.52	59.43	7.06	11.52	3.09	
Merrimack Growing Mash Merrimack Farmers' Exchange Concord, N. H.	G.	17.00	4.25	50.00	.....	.....	5.00	Soybean oil meal, corn meal, wheat bran, wheat middlings, oat groats, alfalfa leaf meal, fish meal, dried skimmed milk, meat scraps, bone meal, calcium carbonate, salt.
	F.	18.30	5.24	57.13	7.85	11.48	4.59	
Merrimack Laying Mash Merrimack Farmers' Exchange Concord, N. H.	G.	18.00	4.25	50.00	.....	.....	5.00	Soybean oil meal, corn meal, wheat bran, wheat middlings, oat groats, alfalfa leaf meal, fish meal, dried skimmed milk, meat scraps, bone meal, calcium carbonate, salt.
	F.	18.47	5.67	56.25	9.97	9.64	5.20	
Merrimack Special Mash Merrimack Farmers' Exchange Concord, N. H.	G.	18.00	5.00	50.00	.....	.....	8.00	Soybean oil meal, wheat middlings, corn meal, alfalfa leaf meal, wheat bran, oats, meat scraps, fish meal, calcium carbonate.
	F.	19.57	6.18	55.59	9.67	8.99	5.64	
Merrimack Super Mash Merrimack Farmers' Exchange Concord, N. H.	G.	18.00	5.00	50.00	.....	.....	5.00	Soybean oil meal, corn meal, oat groats, wheat middlings, wheat bran, alfalfa leaf meal, meat scraps, fish meal, dried skimmed milk, bone meal, salt, calcium carbonate.
	F.	18.78	5.66	55.74	9.91	9.91	4.44	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Crude Fiber	Certified by Manufacturer to Contain
	Protein	Fat	Carbo- hydrates	Ash	Moisture		
Bidwell Dry Mash with Cod Liver Oil	G. 18.00	3.00	50.00	.....	.....	8.50	Dried buttermilk, cod liver oil, alfalfa meal, corn meal, wheat bran, wheat middlings, fish meal, meat and bone scrap, linseed meal, gluten meal, soybean oil meal, calcium carbonate, salt.
Park & Pollard Co. Boston, Mass.	F. 18.48	3.90	58.41	9.23	9.98	6.74	
Lay or Bust Dry Mash	G. 18.00	3.00	50.00	.....	.....	7.00	Dried buttermilk, cod liver oil, alfalfa leaf meal, corn gluten meal, fish meal, meat, bone, linseed meal, soybean meal, wheat bran, wheat middlings, calcium carbonate, salt, corn, wheat, oats, barley, kaffir corn, buckwheat.
Park & Pollard Co. Boston, Mass.	F. 19.61	4.92	55.24	10.16	10.07	5.85	
Manamar Complete Life Cycle Mash	G. 16.00	3.50	55.00	.....	.....	6.00	Kelp, fish meal, sea shells, meat scrap, wheat middlings, alfalfa leaf meal, yellow corn, oats, cod liver oil, wheat bran.
Park & Pollard Co. Boston, Mass.	F. 17.25	4.67	56.76	11.00	10.32	5.66	
Manamar Lay or Bust Mash	G. 18.00	3.50	55.00	.....	.....	6.00	Kelp, fish meal, sea shells, dried buttermilk, meat scraps, alfalfa leaf meal, wheat bran, wheat middlings, yellow corn, oats, cod liver oil.
Park & Pollard Co. Boston, Mass.	F. 19.30	4.97	53.87	12.20	9.66	6.34	
Quaker Ful-O-Pep Broiler Mash	G. 19.00	5.00	54.00	.....	.....	7.00	Oat meal, yellow hominy feed, wheat bran, wheat middlings, fish meal, cod liver meal, meat scraps, sardine oil, dried skimmed milk, dried buttermilk, molasses, alfalfa meal, salt.
Quaker Oats Co. Chicago, Ill.	F. 19.48	6.77	58.57	6.83	8.35	5.52	
Quaker Ful-O-Pep Chick Starter	G. 17.00	5.00	57.00	.....	.....	7.00	Oat meal, yellow hominy feed, wheat bran, wheat middlings, fish meal, cod liver meal, meat scraps, sardine oil, dried skimmed milk, dried buttermilk, molasses, alfalfa meal, salt.
Quaker Oats Co. Chicago, Ill.	F. 18.34	6.55	60.27	5.85	8.99	6.36	
Quaker Ful-O-Pep Egg Mash	G. 20.00	4.50	53.00	.....	.....	8.00	Oat meal, hominy feed, wheat bran, wheat middlings, barley meal, fish meal, cod liver meal, meat scraps, sardine oil, dried skimmed milk, dried buttermilk, molasses, alfalfa meal, salt.
Quaker Oats Co. Chicago, Ill.	F. 19.83	6.27	57.34	8.11	8.45	6.08	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Certified by Manufacturer to Contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture		Crude Fiber
Wirthmore Laying Mash	G. 20.00	4.00	50.00	....	....	Cod liver oil, dried skimmed milk, dried whey, meat
St. Albans Grain Co.	F. 18.86	4.54	57.29	9.89	9.42	scraps, fish meal, yellow corn meal, alfalfa leaf
St. Albans, Vt.						meal, linseed meal, soybean oil meal, corn gluten
Strafford County Mash	G. 17.00	5.00	57.00	....	....	meal, wheat bran, wheat middlings, wheat, oats, barley,
Strafford County Grain Mill	F. 21.49	5.56	51.99	11.02	9.94	buckwheat, calcium carbonate, salt.
Rochester, N. H.						Soybean oil meal, wheat bran, wheat middlings, corn
Blue Seal Chick Starter	G. 17.50	4.00	55.00	....	....	meal, gluten feed, meat scraps, hominy, cod liver oil,
H. K. Webster Co.	F. 19.78	5.32	57.59	7.38	9.93	molasses, dried skimmed milk, fish meal, salt, bone
Lawrence, Mass.						meal.
Blue Seal Egg Mash	G. 19.00	4.50	54.00	....	....	Yellow corn meal, wheat, oats, barley, corn gluten
H. K. Webster Co.	F. 20.35	5.51	54.06	10.57	9.51	meal, wheat bran, wheat flour middlings, meat scraps,
Lawrence, Mass.						dried skimmed milk, codfish meal, alfalfa leaf meal,
Blue Seal Improved All Mash						calcium carbonate, salt, cod liver oil.
Ration	G. 15.00	4.50	55.00	....	....	Yellow corn meal, oats, wheat bran, wheat middlings,
H. K. Webster Co.	F. 15.89	4.92	61.65	7.67	9.87	meat scraps, dried skimmed milk, alfalfa leaf meal,
Lawrence, Mass.						cane molasses, gluten meal, calcium carbonate, salt,
						cod liver oil.
Blue Seal Laying Mash	G. 20.00	3.50	54.00	....	....	Yellow corn meal, wheat, oats, wheat bran, wheat flour
H. K. Webster Co.	F. 20.92	5.96	52.97	10.43	9.72	middlings, meat scraps, codfish meal, dried skimmed
Lawrence, Mass.						milk, alfalfa leaf meal, cane molasses, calcium car-
						bonate, salt, cod liver oil.
Blue Seal Laying Mash	G. 20.00	3.50	54.00	....	....	Yellow corn meal, wheat bran, oats, meat scraps, corn
H. K. Webster Co.	F. 20.92	5.96	52.97	10.43	9.72	gluten meal, wheat flour middlings, barley, wheat,
Lawrence, Mass.						cane molasses, alfalfa leaf meal, dried skimmed milk,
						codfish meal, salt, calcium carbonate, cod liver oil.
Whiting All Mash Laying	G. 15.00	4.00	60.00	....	....	Corn meal, wheat bran, wheat red dog flour, oat
David Whiting & Sons	F. 15.85	4.03	61.36	7.58	11.18	groats, alfalfa leaf meal, dried skimmed milk, meat
Wilton, N. H.						scraps, fish meal, calcium carbonate, salt, cod liver oil.

Whiting Laying Mash	G.	17.00	4.00	55.00	.....	.....	5.00	Yellow corn meal, wheat bran, wheat flour middlings, oats, meat scraps, dried skimmed milk, fish meal, alfalfa, leaf meal, calcium carbonate, salt, cod liver oil.
David Whiting & Sons Wilton, N. H.	F.	17.82	4.58	55.31	11.48	10.81	6.58		
Whiting Special Mash	G.	18.00	4.00	50.00	.....	.....	5.00	Wheat bran, corn meal, corn gluten feed, beef scraps, wheat middlings, rolled oats, alfalfa leaf meal, calcium carbonate, salt, dried skimmed milk, cod liver oil.
David Whiting & Sons Wilton, N. H.	F.	19.04	4.72	54.47	11.98	9.79	7.06		
Whitney's Laying Mash	G.	17.00	4.50	55.00	.....	.....	6.00	Corn meal, wheat, barley, oat meal, alfalfa leaf meal, fish meal, meat scraps, dried skimmed milk, wheat bran, charcoal, salt, limestone, cod liver oil.
K. T. Whitney Goffstown, N. H.	F.	17.99	4.32	55.39	11.49	10.81	4.93		
SOYBEAN MEAL									
Central Soybean Oil Meal	G.	41.00	5.00	35.00	.....	.....	7.00	
Central Soya Co. Decatur, Ind.	F.	41.50	5.52	38.82	6.09	8.07	.....	
Shellabarger's Soybean Oil Meal	G.	41.00	4.50	35.00	.....	.....	7.50	
Shellabarger Grain Products Co. Decatur, Ill.	F.	40.50	5.02	37.97	6.24	10.27	5.71		
Staley's Soybean Oil Meal	G.	41.00	4.50	36.00	.....	.....	7.00	
A. E. Staley Mfg. Co. Decatur, Ill.	F.	41.59	5.21	39.49	5.63	8.08	.....	
STOCK FEED									
Empire Stock Feed	G.	9.00	4.00	64.00	.....	.....	11.00	Hominy feed, oats, corn, oat mill feed, clipped oat by-products, screenings from flax, wheat, corn, oats, barley, cane molasses, salt, steamed bone meal, limestone.
Allied Mills Chicago, Ill.	F.	10.20	4.42	70.63	5.13	9.62	7.10		
Pennant Brand Stock Feed	G.	9.50	4.00	70.00	.....	.....	9.50	White hominy, oat meal mill by-products, linseed meal, barley, salt, cane molasses, calcium carbonate, bone meal.
E. W. Bailey & Co. Montpelier, Vt.	F.	10.11	4.66	69.87	5.82	9.54	8.51		
Barco Stock Feed	G.	9.50	4.50	70.00	.....	.....	9.50	White hominy, oat by-products, linseed meal, barley.
G. N. Bartemus Co. Concord, N. H.	F.	9.89	5.08	72.37	4.35	8.31	10.21		

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs					Moisture	Crude Fiber	Certified by Manufacturer to Contain
	Protein	Fat	Carbo-hydrates	Ash				
Concord Stock Feed	G. 7.50	2.80	70.00	.....	.....	14.45	Hominy, oat meal mill by-products, salt.
G. N. Bartemus Co. Concord, N. H.	F. 8.02	4.46	74.46	4.97	8.09	14.92		
Coweco Stock Feed	G. 9.00	4.00	45.00	.....	.....	11.00	Oats, hominy, corn meal, oat feed, barley, calcium carbonate, salt.
E. A. Cowee Co. Fitchburg, Mass.	F. 10.73	4.06	69.82	6.87	8.52	12.09		
Delaware White Stock Feed	G. 9.00	3.00	65.00	.....	.....	12.00	Corn meal, hominy feed, wheat middlings, barley, oat middlings, oat hulls, oat shorts, salt, calcium phosphate, calcium carbonate.
Delaware Mills Deposit, N. Y.	F. 9.85	4.14	71.33	5.84	8.84	12.52		
Frederick Stock Feed	G. 7.50	3.00	70.00	.....	.....	12.00	Corn feed meal, oat middlings, oat shorts, oat hulls, clipped oat by-products, salt.
Dietrich & Gambrill Frederick, Md.	F. 8.72	3.37	73.07	4.71	10.13	10.93		
Elmore Stock Feed	G. 10.00	3.00	60.00	.....	.....	12.00	Corn meal or hominy feed, oat meal by-products, salt.
Elmore Milling Co. Oneonta, N. Y.	F. 12.99	3.82	70.51	4.04	8.64	9.67		
North Star Stock Feed	G. 9.00	3.00	50.00	.....	.....	12.00	Hominy, corn meal, barley, oat feed, wheat red dog flour, grain screenings, salt.
Farm Service Stores Fitchburg, Mass.	F. 9.63	3.37	73.13	4.49	9.38	12.62		
Phoenix Feeds Stock Feed	G. 8.00	3.00	72.00	.....	.....	12.00	Oats, linseed meal, corn feed meal, oat shorts, oat middlings, oat hulls, barley feed, hominy feed, salt.
Great Eastern Feed Mills Lowell, Mass.	F. 10.24	5.16	67.60	8.99	8.01	10.01		
Sugared "Wamesit"	G. 8.00	1.00	65.00	.....	.....	22.00	Oat mill feed, cane molasses, fish meal, salt.
Great Eastern Feed Mills Lowell, Mass.	F. 5.78	1.16	78.90	6.70	7.46	24.49		
Grandin's Stock Food	G. 8.50	4.00	55.00	.....	.....	12.00	Corn meal, corn feed meal, hominy feed, wheat middlings, mill run screenings, barley, oat middlings, oat hulls, oat shorts, salt.
D. H. Grandin Milling Co. Jamestown, N. Y.	F. 10.02	5.15	72.28	4.73	7.82	10.50		
Granite State Stock Feed	G. 9.00	5.00	60.00	.....	.....	10.00	White hominy, wheat red dog flour, oat by-products, salt.
E. C. & W. L. Hopkins Greenfield, N. H.	F. 9.10	5.49	72.54	4.98	7.89	8.58		

Independent Stock Feed Open Formula	G.	10.00	3.00	60.00	....	....	12.00	Corn meal, hominy, oat meal mill by-products, salt.
Independent Grain Dealers' Association Manchester, N. H.	F.	6.88	2.29	75.40	4.62	10.81	17.24	
Bull Brand Stock Feed	G.	9.00	3.50	60.00	....	....	12.00	Hominy feed, corn feed meal, wheat bran, mill run
Maritime Milling Co. Buffalo, N. Y.	F.	11.20	5.67	69.28	4.52	9.33	10.82	screenings, oat hulls, oat shorts, salt.
Merrimack Stock Feed	G.	9.00	4.00	60.00	....	....	11.00	Molasses, soybean oil meal, hominy, oat feed, oats,
Merrimack Farmers' Exchange Concord, N. H.	F.	9.72	4.91	69.33	6.72	9.32	9.39	salt, calcium carbonate, linseed meal, barley.
Park & Pollard Stock Feed	G.	9.00	4.00	50.00	....	....	12.00	Barley, corn, oats, hominy feed, oat hulls, oat mid-
Park & Pollard Co. Boston, Mass.	F.	9.89	3.55	70.23	6.58	9.75	9.18	dlings, oat shorts, molasses, calcium carbonate, salt.
Quaker Sugared Schumacher Feed	G.	10.00	3.00	67.00	....	....	12.00	Corn meal, hominy feed, barley meal, soybean oil meal,
Quaker Oats Co. Chicago, Ill.	F.	10.68	3.58	71.31	6.39	8.04	11.76	low grade wheat flour, wheat middlings, oat mill feed,
Stratton & Co.'s Stock Feed	G.	7.50	2.83	66.00	....	....	14.43	limestone, bone meal, molasses.
Stratton & Co. Concord, N. H.	F.	7.53	2.94	75.89	2.86	10.78	14.20	Oat feed, cracked corn siftings, corn meal.
Wirthmore Stock Feed	G.	9.00	4.00	70.00	....	....	9.50	Barley, oats, hominy feed, corn, oat meal mill by-
St. Albans Grain Co. St. Albans, Vt.	F.	10.86	5.20	68.94	6.44	8.56	8.93	products, cane molasses, bone meal, calcium car-
WHEAT BRAN								
Atkinson's Wheat Bran	G.	14.00	4.00	49.00	....	....	12.00	Mill run screenings.
Atkinson Milling Co. Minneapolis, Minn.	F.	19.44	4.01	59.67	5.66	11.22	....
Bran	G.	15.00	3.50	51.80	....	....	11.50	
S. J. Cherry & Sons Preston, Canada	F.	16.72	5.36	61.78	5.26	10.88	....
C and C Wheat Bran	G.	15.00	3.50	51.00	....	....	11.50	
Coatsworth and Cooper Toronto, Canada	F.	14.30	4.06	65.97	5.26	10.41	....

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff					Crude Fiber	Certified by Manufacturer to Contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture		
Sunfed Wheat Bran	G. 14.00	4.00	62.00	....	....	12.00	Mill run screenings.
Commander-Larabee Corp. . . Minneapolis, Minn.	F. 16.61	4.83	59.38	6.81	12.37	....
Copeland's Dandy Bran	G. 15.00	3.50	51.00	....	....	11.50	Mill run screenings.
Copeland Flour Mills Midland, Canada	F. 17.69	5.50	61.68	5.33	9.80	....
Coarse Wheat Bran	G. 15.00	5.00	50.00	....	....	11.00	Mill run screenings.
Crookston Milling Co. Crookston, Minn.	F. 16.29	4.87	61.80	5.25	11.79	....
Duluth Imperial Wheat Bran . .	G. 15.00	3.75	60.00	....	....	13.00	Mill run screenings.
Duluth-Superior Milling Co. Duluth, Minn.	F. 18.04	4.82	60.50	5.52	11.12	....
Wheat Bran	G. 14.00	3.50	50.00	....	....	12.00	Mill run screenings.
B. A. Eckhart Milling Co. . . . Chicago, Ill.	F. 16.03	4.11	61.14	6.58	12.14	....
Lucky Hard Wheat Bran	G. 15.00	3.00	60.00	....	....	14.00	Mill run screenings.
Federal Mill Lockport, N. Y.	F. 17.99	5.31	59.57	6.02	11.11	....
Bronco Wheat Bran	G. 15.00	3.50	50.00	....	....	11.50	Standard wheat bran, mill run wheat screenings.
J. A. Forrest Minneapolis, Minn.	F. 16.51	5.49	59.69	5.68	12.63	....
Genesota Standard Wheat Bran	G. 15.00	4.00	63.00	....	....	12.00	Standard wheat bran, mill run wheat screenings.
Geneva Milling Co. Geneva, N. Y.	F. 16.81	5.11	62.74	5.46	9.88	....
Hanco Wheat Bran	G. 15.00	3.50	51.00	....	....	11.50	Standard wheat bran, mill run wheat screenings.
Frank B. Ham & Co. Toronto, Canada	F. 16.29	5.42	62.72	5.37	10.20	....
Choice Wheat Bran	G. 13.50	3.50	48.50	....	....	14.00	Mill run screenings.
Hecker-Jones-Jewell Milling Co. Buffalo, N. Y.	F. 17.34	4.76	59.18	6.05	12.67	....

Blackhawk Wheat Bran	G.	15.00	3.20	62.00	....	....	12.00
International Milling Co. Minneapolis, Minn.	F.	16.73	5.03	62.89	5.66	9.69	....
Lakewoods Wheat Bran	G.	15.00	3.50	53.00	....	....	11.50
Lake of the Woods Milling Co. Montreal, Canada	F.	16.11	5.27	61.39	5.47	11.76	....
Rex Wheat Bran	G.	15.00	3.50	50.00	....	....	12.00
Maple Leaf Milling Co. Toronto, Canada	F.	16.37	5.22	63.95	5.08	9.38	....
Montco Wheat Bran	G.	15.00	3.00	59.00	....	....	12.00
Montana Flour Mills Co. Great Falls, Montana	F.	18.21	5.22	61.13	4.60	10.84	....
Niagara Choice Wheat Bran	G.	15.50	4.00	50.00	....	....	11.00
Niagara Falls Milling Co. Lockhart, N. Y.	F.	17.82	5.17	60.77	5.88	10.36	....
Parrhelm Wheat Bran	G.	15.00	3.50	51.00	....	....	11.50
Parrish & Heimbecker Toronto, Canada	F.	16.20	5.45	62.05	5.48	10.82	....
Occident Bran	G.	14.00	4.00	61.50	....	....	11.50
Russell-Miller Milling Co. Minneapolis, Minn.	F.	15.37	4.47	63.55	6.15	10.46	....
King Arthur Wheat Bran	G.	14.00	4.00	62.00	....	....	12.00
Sands, Taylor & Wood Co. Boston, Mass.	F.	17.29	4.98	60.04	6.37	11.32	....
Dakota Maid Pure Bran	G.	15.00	5.00	60.00	....	....	12.00
State Mill & Elevator Co. Grand Forks, N. D.	F.	17.64	5.49	59.97	5.72	11.18	....
Stratton & Co.'s Fancy Wheat Bran	G.	14.00	4.00	64.00	....	....	11.00
Stratton & Co. Concord, N. H.	F.	14.14	4.51	65.41	5.60	10.34	....
Golden Leaf Wheat Bran	G.	16.00	4.00	48.00	....	....	11.00
Tennant & Hoyt Co. Lake City, Minn.	F.	16.68	4.17	62.76	5.62	10.77	....

Mill run screenings.

Mill run screenings.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuff							Crude Fiber	Certified by Manufacturer to Contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture	Carbo- Fiber	Crude		
Rowena Wheat Bran	G. 13.75	4.00	62.30	....	....	12.30		
Valley City Milling Co. . . Grand Rapids, Mich.	F. 18.04	4.13	60.85	5.78	11.20	....		
Rowena Wheat Bran	G. 14.00	3.00	65.50	....	....	10.75		
Valley City Milling Co. . . Grand Rapids, Mich.	G. 13.57	4.19	64.59	6.13	11.52	....		
Washburn's Gold Medal Hard Wheat Bran	G. 14.00	4.00	63.00	....	....	12.00	Mill run screenings.	
Washburn Crosby Co. Minneapolis, Minn.	F. 17.16	5.39	61.26	5.76	10.43	....		
Pioneer Pure Wheat Bran . . Western Canada Flour Mills Co. Calgary, Canada	G. 15.00 F. 17.69	3.50 5.73	55.00 59.66	.... 5.21	.... 11.71	11.50		
Wheat Bran and Wheat Screenings	G. 14.50	3.50	55.00	....	....	11.00	Wheat bran, wheat screenings.	
Wichita Flour Mills Co. . . Wichita, Kansas	F. 16.11	3.90	64.08	6.34	9.57	....		
WHEAT MIDDINGS									
Sunfed Wheat Flour Middlings Commander-Larabee Corp. . . Minneapolis, Minn.	G. 16.00 F. 18.17	4.00 4.52	63.00 61.36	.... 3.77	.... 12.18	6.00	Mill run screenings.	
Standard Middlings Fairchild Milling Co. Cleveland, Ohio	G. 16.00 F. 17.69	4.00 4.92	55.00 61.08	.... 4.08	.... 12.23	9.50	Mill run screenings.	
Dairy Maid Wheat Flour Middlings	G. 13.00	4.50	58.00	....	....	6.00	Mill run screenings.	
Federal Mill Lockport, N. Y.	F. 16.38	5.06	65.57	3.47	9.52	....		

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs					Crude Fiber	Certified by Manufacturer to Contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture		
Stratton & Co.'s Standard							
Wheat Middlings	G. 16.00	5.63	55.00	....	....	9.50	Mill run screenings.
Stratton & Co. Concord, N. H.	F. 14.92	4.72	65.70	3.86	10.80	....
Washburn's Gold Medal Hard							
Wheat Standard Middlings	G. 15.00	4.00	62.50	....	....	9.50	Mill run screenings.
Washburn Crosby Co. Minneapolis, Minn.	F. 17.64	5.22	62.11	4.21	10.82	....
WHEAT MIXED FEED							
Barco Mixed Feed	G. 14.00	3.00	60.00	....	....	7.00	Wheat bran, second clear flour.
G. N. Bartemus Co. Concord, N. H.	F. 17.64	4.39	63.18	4.37	10.42	....
Coweco Heavy Mixed Feed	G. 15.00	4.00	55.00	....	....	7.00	Wheat bran, wheat middlings, wheat red dog flour.
E. A. Cowee Co. Fitchburg, Mass.	F. 17.82	5.22	61.83	5.06	10.07	....
D & G Wheat Mixed Feed	G. 15.00	3.50	63.00	....	....	7.50	
Dietrich & Gambrell Frederick, Md.	F. 18.12	4.77	61.11	4.71	11.29	....
Camel Fancy Wheat Feed	G. 16.00	4.00	....	....	....	7.50	Wheat low grade flour, wheat red dog flour, wheat middlings, wheat bran.
Excelsior Milling Co. Minneapolis, Minn.	F. 15.38	4.07	65.31	5.56	9.68	....
Dairy Maid Wheat Mixed Feed	G. 13.50	3.50	57.00	....	....	10.00	Mill run screenings.
Federal Mill Lockport, N. Y.	F. 18.13	4.85	62.69	4.67	9.66	....
Granite State Mixed Feed	G. 15.00	4.00	55.00	....	....	8.50	Wheat bran, wheat red dog flour, mill run screenings.
E. C. & W. L. Hopkins Greenfield, N. H.	F. 17.29	5.02	62.26	4.75	10.68	....
Bull Brand Heavy Mixed Feed	G. 15.00	4.00	60.00	....	....	8.00	Wheat bran, wheat middlings, wheat red dog flour, mill run screenings.
Maritime Milling Co. Buffalo, N. Y.	F. 17.25	4.66	63.62	4.31	10.16	....

Merrimack Heavy Wheat Feed Merrimack Farmers' Exchange Concord, N. H.	G. 15.00 F. 16.77	4.00 4.96	55.00 63.30	.... 4.59	.... 10.38	9.00	Wheat bran, mill run screenings, wheat white middlings.
Planet Feed Northwestern Consolidated Milling Co. Minneapolis, Minn.	G. 15.00 F. 18.95	4.00 4.82	63.00 59.70	.... 4.66	.... 11.87	8.00	Wheat bran, wheat red dog flour.
Pillsbury's Fancy Mixed Feed and Screenings Pillsbury Flour Mills Co. Minneapolis, Minn.	G. 15.00 F. 17.33	4.00 4.92	55.00 62.23	.... 4.48	.... 11.04	8.50	Wheat red dog flour, wheat bran, mill run screenings.
Brooks' Fancy Wheat Mixed Feed Ralston Purina Co. St. Johnsbury, Vt.	G. 15.00 F. 17.20	4.00 5.01	63.00 62.48	.... 4.55	.... 10.76	8.00	Wheat bran, low grade flour.
Occident Wheat Mixed Feed Russell-Miller Milling Co. Minneapolis, Minn.	G. 15.00 F. 19.31	4.50 5.85	61.50 60.72	.... 4.74	.... 9.38	9.50	Wheat bran, wheat middlings, wheat red dog flour.
Wirthmore Wheat Feed St. Albans Grain Co. St. Albans, Vt.	G. 15.00 F. 17.03	3.75 4.34	50.00 60.65	.... 7.47	.... 10.51	8.00	Wheat bran, wheat red dog flour, mill run screenings.
Litchfield Mixed Feed F. W. Stock & Sons Hillsdale, Mich.	G. 16.00 F. 15.12	4.00 4.42	60.00 64.52	.... 4.66	.... 11.28	8.00	
Stratton & Co.'s Wheat Mixed Feed Stratton & Co. Concord, N. H.	G. 13.50 F. 14.32	4.11 4.15	63.00 65.93	.... 4.83	.... 10.77	7.13	Mill run screenings.
Rowena Mixed Feed Valley City Milling Co. Portland, Mich.	G. 14.00 F. 14.13	4.10 4.67	63.60 65.51	.... 4.73	.... 10.96	8.20	Mill run screenings.
Washburn's Gold Medal Fancy Wheat Mixed Feed Washburn Crosby Co. Minneapolis, Minn.	G. 15.00 F. 17.12	3.50 4.06	65.50 64.54	.... 4.16	.... 10.12	7.50	Wheat bran, mill run wheat screenings, low grade wheat flour.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Crude Fiber	Certified by Manufacturer to Contain
	Protein	Fat	Carbo- hydrates	Ash	Mois- ture			
WHEAT RED DOG FLOUR								
Sunfed Red Dog	G. 16.00	4.00	63.00	....	....	4.00		
Commander-Larabee Corp. . . . Minneapolis, Minn.	F. 19.44	4.51	61.53	3.21	11.31	....	
XXX Comet	G. 16.00	4.00	62.00	....	....	4.00	Red dog wheat flour.	
Northwestern Consolidated Milling Co.	F. 20.17	4.78	60.66	3.32	11.07	....	
Minneapolis, Minn.								
Pillsbury's XX Daisy	G. 16.00	4.00	62.00	....	....	4.00	Wheat red dog flour.	
Pillsbury Flour Mills Co. . . . Minneapolis, Minn.	F. 18.65	4.86	62.38	2.85	11.26	....	
Washburn's Gold Medal Hard Wheat Adrian Red Dog	G. 16.00	3.50	64.00	....	....	4.00		
Washburn Crosby Co.	F. 18.30	3.96	64.34	2.08	11.32	....	
Minneapolis, Minn.								
WHEAT SHORTS								
Shorts	G. 16.00	5.00	53.70	....	....	8.00		
S. J. Cherry & Sons Preston, Canada	F. 19.52	5.49	60.55	4.09	10.35	....	
C and C Wheat Shorts	G. 16.00	5.00	52.00	....	....	8.00		
Coatsworth and Cooper Toronto, Canada	F. 17.69	5.44	61.68	4.18	11.01	....	
Bronco Wheat Shorts	G. 16.00	5.00	54.00	....	....	8.00		
J. A. Forrest Minneapolis, Minn.	F. 18.65	5.39	61.05	4.52	10.39	....	
Lakewoods Wheat Shorts	G. 16.00	5.00	56.00	....	....	8.00		
Lake of the Woods Milling Co. Montreal, Canada	F. 18.39	5.37	61.27	4.34	10.63	....	

Parrheim Wheat Shorts	G. 16.00	5.00	52.00	....	....	8.00
Parrish & Heimbecker Toronto, Canada	F. 16.03	4.88	64.00	4.17	10.92	....
Bell Cow Wheat Shorts	G. 15.00	4.00	65.00	....	....	8.00
Quaker Oats Co. Peterborough, Ont.	F. 18.56	5.21	60.89	4.20	11.14	....
Pioneer Wheat Shorts	G. 16.00	5.00	55.00	....	....	8.00
Western Canada Flour Mills Co. Calgary, Canada	F. 18.39	5.91	60.39	4.55	10.76

Wheat shorts, mill run screenings.

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