

Connecticut Agricultural Experiment Station

NEW HAVEN, CONN.

BULLETIN 238

FEBRUARY, 1922

BEING THE

Report on Commercial Feeding Stuff

1921

By E. M. BAILEY

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February, 1922.

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Commercial Feeding Stuffs.

By E. M. BAILEY.*

PROVISIONS OF THE STATUTES RELATING TO FEEDING STUFFS.

Under the Connecticut statutes the term "concentrated commercial feeding stuffs" covers practically all feeds excepting hay and straw, whole seed, unmixed meal made directly from any of the cereals or from buckwheat, and feed ground from whole grain and sold directly from manufacturer to consumer.

Under the new fertilizer law cottonseed meal is classed as a commercial fertilizer and, as such, is subject to analysis fees and tonnage tax. Provision is made, however, to exempt meal sold exclusively for feeding purposes.¹

Section 4775 requires that every lot or parcel of concentrated commercial feeding stuff shall bear a statement giving the name and address of the manufacturer or importer, the number of net pounds in the package, the name of the article, and the percentage of protein and fat contained in it. The law forbids the use of any metal in affixing tags.

No registration of feed or payment of analysis or license fees is required.

The penalty for violation of the statute is not more than \$100 fine for the first offense and not more than \$200 for each subsequent offense.

The law authorizes this station to take samples from any manufacturer or dealer, in a prescribed manner, and requires the station to analyze annually at least one sample of each brand which it has collected, and to publish these analyses "together with such additional information in relation to the character, composition and use thereof as may be of importance."

CLASSIFICATION OF SAMPLES.

The classification and summary of commercial feeding stuffs and other materials requiring fodder analysis which have been examined during the past year are as follows:

* Analyses are by Messrs. Nolan, Merwin and Fisher; inspection and sampling are by Mr. Churchill; and the compilation of results for publication is largely due to Miss Moss.

¹ Chapt. 204, Public Acts, 1919.

Official samples taken by the Station Agent	159
Samples submitted by individuals	57
Samples examined in connection with field experiments at Storrs	267
Samples examined in connection with field experiments at this station	52
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Total	535

Only the results of the official inspection and samples submitted by individuals are included in this report. Other data are discussed elsewhere.

Official samples taken by this station are classified as follows:

Cottonseed Meal	14	Maize Products	17
Linseed Meal	6	Distillers' Products	2
Wheat Bran	19	Brewers' Products	2
Wheat Middlings	14	Dried Beet Pulp	7
Red Dog Flour	3	Dried Buttermilk	1
Wheat Mixed Feed	6	Proprietary Stock Feeds	51
Rye Products	2	Poultry Feeds	15
		<hr/>	
		Total	159

STANDARDS FOR WHEAT MILL FEEDS.

Tentative standards for wheat mill feeds, with or without screenings, have been adopted by the Association of Feed Control Officials. The figures which refer to crude fiber and represent the maximum in each case, are as follows:

Standard Middlings	9.5%
Flour Middlings	6.0
Red Dog Flour	4.0
Brown Shorts	6.5
Gray Shorts	5.5
White Shorts	3.5
Wheat Mixed Feed	8.5

SIGNIFICANCE OF THE NUTRIENT GROUPS.

The significance of the several nutrient groups as shown by the conventional proximate analysis has been discussed in previous bulletins.¹ Occasional inquiries continue to be received as to the distinction between the terms "nitrogen-free extract" and "carbohydrates" appearing upon commercial feed tags. The sense of the Association of Feed Control Officials upon this point is embodied in resolutions adopted by them as follows:

"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.

"Resolved that the term 'Carbohydrates' be interpreted to cover the

¹ Conn. Exp. Sta. Bull. 206, 1918; Bull. 212, 1919.

product indicated by the percentage obtained by the addition of the percentages of crude fiber and nitrogen-free extract."

In practice tags often bear declarations of both "fiber" and "carbohydrates" and in such cases the term "carbohydrates" must be regarded in the sense of "nitrogen-free extract."

The Association has adopted further resolutions to the effect that the practice of packing feeds in bags containing 99 lbs. and selling the same for 100 lbs. net is condemned; and that a ton of feed is 2000 lbs. net.

COEFFICIENTS OF DIGESTIBILITY AND NET ENERGY VALUES.

The question of digestion coefficients and energy values of feeding stuffs has been discussed in previous reports.¹ These factors for most of the types of feed reported herein are given in Table I, and for others the reader is referred to the authorities cited.

TABLE I—COEFFICIENTS OF DIGESTIBILITY AND NET ENERGY VALUES OF FEEDING STUFFS.¹

Feed.	Average dry matter, lbs. per hundred.	Coefficient of digestibility.				Net energy value, Therms per hundred lbs.
		Protein.	Fiber.	Carbohydrates.	Fat.	
Cottonseed Meal.....	92.2	84	37	75	95	90.0
Cottonseed Feed.....	58	58	45	61	90	...
Linseed Meal (old process).....	90.0	89	57	78	89	88.9
Linseed Meal (new process).....	90.4	86	73	87	95	85.1
Wheat Bran.....	89.9	76	43	74	62	53.0
Wheat Feed.....	77	36	76	87	...	...
Wheat Middlings.....	89.6	77	30	78	88	59.1
Red Dog Flour.....	88	36	88	86	...	...
Rye Flour.....	80	..	88	90	...	...
Barley, ground.....	90.7	88	70	93	86	89.9
Barley Bran.....	85	20	86	87	...	...
Corn Gluten Meal.....	90.9	85	55	90	93	84.2
Corn Gluten Feed.....	91.3	85	76	88	85	80.7
Hominy Feed.....	89.9	66	76	90	91	81.3
Brewer's Grains.....	92.5	81	49	57	89	53.4
Malt Sprouts.....	92.4	77	87	80	85	72.7
Distillers' Grains, Corn.....	93.4	73	95	81	95	85.1
Distillers' Grains, Rye.....	92.8	59	..	67	84	56.0
Beet Pulp, dried.....	91.8	52	83	83	..	75.9
Peanut Cake, without shells.....	89.3	90	9	84	90	93.6
Soybean Meal, fat extracted.....	88.2	92	99	100	68	99.7
Cocoanut Cake.....	90.4	90	23	87	100	83.5

¹Henry and Morrison, 15th Ed., pp. 118-119; Armsby and Putney, Penn. Exp. Sta., Bull. 142, 1916.

¹Conn. Exp. Sta. Bull. 212, p. 357, 1918; Bull. 221, pp. 347-351, 1919.

ETHER EXTRACT IN MOLASSES FEEDS.

Our experience with the determination of fat in feeds containing molasses or other saccharine material was summarized in our report last year.¹ Over a period of seven years nearly one half (42 per cent.) of the samples examined gave lower results for ether extract when the procedure of washing out saccharine substances with water before extracting with ether was followed; in the remaining cases the results were higher. The official direct method now prescribes extracting with water before extracting with ether in cases where large amounts of soluble carbohydrates are present. We have followed this plan in cases where the ether extract was below guaranty by direct extraction with ether.

INSPECTION OF 1921.

REMARKS ON ANALYSES.

(Analyses on pages 338-357.)

The definitions of the various feeding stuffs here given are those adopted by the Association of Feed Control Officials revised to October, 1921.

COTTONSEED MEAL.

41.12 Per cent. Protein Cottonseed Meal, Choice Quality, must be finely ground, not necessarily bolted, perfectly sound and sweet in odor, yellow, free from excess of lint, and by analysis must contain at least 41.12 per cent. crude protein, equivalent to 8 per cent. of ammonia.

Cotton seed meal not fulfilling the above requirements as to color, odor or texture, shall be branded Off Quality.

38.56 Per cent. Protein Cottonseed Meal, Prime Quality, must be finely ground, not necessarily bolted, of sweet odor, reasonably bright in color, yellow, not brown or reddish, free from excess of lint, and by analysis must contain at least 38.56 per cent. crude protein, equivalent to 7.5 per cent. of ammonia.

Cottonseed meal not fulfilling the above requirements as to color, odor or texture, shall be branded Off Quality.

36 Per cent. Protein Cottonseed Meal, Good Quality, must be finely ground, not necessarily bolted, of sweet odor, reasonably bright in color, and by analysis must contain at least 36 per cent. crude protein equivalent to 7 per cent. of ammonia.

Cottonseed meal not fulfilling the above requirements as to color, odor or texture shall be branded Off Quality.

Of fourteen samples examined all satisfied their guaranties with the single exception that 18067, Surety, was 2.62 per cent. low in protein. The average composition of samples examined this year is protein 39.1, fiber 10.9 and fat 7.4 per cent. This is substantially better than the average for the same constituents for the previous six years which shows protein 37.1, fiber 11.9 and fat 6.9 per cent. The average price has been \$49.30 per ton. The

¹ Conn. Exp. Sta., Bull. 229, p. 296, 1920.

average for the six-year period just mentioned was \$58.80 but this figure reflects the abnormal prices which prevailed at the close of the war when cottonseed meal sold for over \$80 per ton.

LINSEED MEAL.

Linseed Meal is the ground product obtained after extraction of part of the oil from ground flaxseed screened and cleaned of weed seeds and other foreign materials by the most improved commercial processes, provided that the final product shall not contain over six per cent. of weed seeds and other foreign materials and provided further that no portion of the stated six per cent. of weed seeds and other foreign materials shall be deliberately added.

Old Process Oil Meal is the ground product obtained after extraction of part of the oil by crushing, cooking and hydraulic pressure from seeds screened and cleaned of weed seeds and other foreign materials by the most improved commercial processes. When used alone the term "Old Process Oil Meal" shall be understood to designate linseed meal as defined, made by the old process. When used to cover any other product the name of the seed from which it is obtained shall be prefixed to "old process oil meal."

Six samples, all old process meals, substantially met their guaranties in all respects.

WHEAT BRAN.

Wheat Bran is the coarse outer coating of the wheat kernel as separated from cleaned and scoured wheat in the usual process of commercial milling.

All of the samples examined satisfied their guaranties as to protein and fat. So far as fiber guaranties were given or known they were not exceeded. The average composition, viz., protein 16.6, fiber 9.5 and fat 5.3 per cent. is substantially better than the average for the previous six years, viz., protein 15.7, fiber 10.1 and fat 5.0 per cent.

WHEAT MIDDINGS.

Standard Middlings (Red Shorts or Brown Shorts) consists mostly of the fine particles of bran, germ and very little of the fibrous offal obtained from the "tail of the mill." This product must be obtained in the usual commercial process of milling.

Gray Shorts (Gray Middlings or Total Shorts) consists of the fine particles of the outer bran, the inner bran or bee-wing bran, the germ, and the offal or fibrous material obtained from the "tail of the mill." This product must be obtained in the usual process of commercial milling.

White Shorts or White Middlings consists of a small portion of the fine bran particles and the germ and a large portion of the fibrous offal obtained from the "tail of the mill." This product must be obtained in the usual process of flour milling.

One sample, **17986**, exceeded the maximum fiber guaranty by 2.04 per cent. and exceeded also the tentative limit of fiber pre-

scribed for standard middlings¹ by 1.04 per cent. No deficiencies were found in protein or fat.

The average composition of feeds classed as middlings without further qualification has been, for the previous six years, protein 16.7, fiber 6.9 and fat 5.2 per cent.; the average shown by analyses this year is protein 17.5, fiber 6.9 and fat 5.2 per cent.

RED DOG FLOUR.

Red Dog Flour consists of a mixture of low-grade flour, fine particles of bran and the fibrous offal from the "tail of the mill."

Only three samples of this material have been examined this year. The guaranties of protein and fat were met, or reasonably substantiated, and the average fiber content did not exceed the tentative standard set for this product, viz., 4 per cent. One sample, **18046**, contained 4.27 per cent. of fiber.

MIXED FEED.

Wheat Mixed Feed (Mill Run Wheat Feed) consists of pure wheat bran and the gray or total shorts or flour middlings combined in the proportions obtained in the usual process of commercial milling.

Six samples were examined and all satisfied their guaranties of protein and fat. One sample, **17972**, exceeded the fiber content fixed for wheat feed² but the average was well below the tentative standard. The average for protein, fiber and fat as shown by analyses this year is 17.06, 7.68 and 5.13 per cent. respectively while the average for the same ingredients for the previous six years is 16.3, 7.8 and 5.0 per cent. respectively. It is apparent that protein content has increased while the other constituents have maintained the average.

RYE PRODUCTS.

Rye Middlings or Rye Feed is the by-product obtained from the manufacture of ordinary "100 per cent" rye flour from cleaned and scoured rye grain.

The two samples of rye feed examined conformed to their guaranties for protein and fat.

CORN GLUTEN FEED.

Corn Gluten Feed is that portion of commercial shelled corn that remains after the separation of the larger part of the starch and the germs by the processes employed in the manufacture of cornstarch and glucose. It may or may not contain corn solubles.

¹ By the Association of Feed Control Officials, 1921.

² *Ibid.*

Four samples were examined which satisfied their guaranties of protein and fat except in case of **15724** where a deficiency of 1.41 per cent. in fat was found.

CORN GLUTEN MEAL.

Corn Gluten Meal is that part of commercial shelled corn that remains after the separation of the larger part of the starch, the germ and the bran, by the processes employed in the manufacture of cornstarch and glucose. It may or may not contain corn solubles.

Only one sample was examined. It exceeded its guaranty in both protein and fat.

HOMINY FEED.

Hominy Feed, Hominy Meal or Hominy Chop is the kiln-dried mixture of the mill run bran coating, the mill run germ, with or without a partial extraction of the oil and a part of the starchy portion of the white corn kernel obtained in the manufacture of hominy, hominy grits and corn meal by the degerminating process.

Eleven samples were examined. Three, **15752**, **18060** and **18022** were deficient in fat and one, **17983**, contained an excess of fiber.

CORN MEAL.

Only one sample was examined. It was of normal composition and quality.

DISTILLERY AND BREWERY PRODUCTS.

Two samples each of distillers' and brewers' dried grains were examined. They satisfied their respective guaranties except in case of **15755** which was 1.44 per cent. low in protein.

DRIED BEET PULP.

Dried Beet Pulp is the dried residue from sugar beets which have been cleaned and freed from crowns, leaves and sand, and which have been extracted in the process of manufacturing sugar.

Seven samples were examined. The guaranties of protein and fat were satisfactorily met and generally exceeded. No significant excess of fiber was found.

PROPRIETARY MIXED FEEDS.

The variety of sources from which these mixtures derive their nutrients results in a supplementing of nutritive qualities which is in harmony with modern ideas of efficient feeding. When compounded with materials of approved feeding value free from excess of hulls, screenings, etc., they are desirable feeds. As to

the economy of their use we are unable to discover any logical relation between selling price and composition. The ingredients of which these feeds are composed are generally stated on the tags and this information, although not required by law in this state, is valuable to the feeder.

Of fifty-one samples examined only five failed to satisfy their guaranties, and in only two of these were the deficiencies conspicuous. There was a deficiency in protein of 2.06 per cent. in **18023** and deficiencies in both protein and fat in **18047**, the amounts being 1.37 and 0.91 per cent. respectively.

POULTRY FEEDS.

Fifteen samples were analyzed. A deficiency in protein of 5.75 per cent. was found in **18008**.

SUMMARY OF DEFICIENCIES

Variations from guaranty greater than one per cent. in protein and in fiber and one-fourth of one per cent. in fat are summarized in Table II.

TABLE II.—FEEDS NOT CONFORMING TO GUARANTIES OR OTHERWISE ILLEGAL.

Station No.	Manufacturer and Brand.	Protein Deficiency.	Fat Deficiency.	Fiber Excess.	Remarks.
<i>Cottonseed Meal</i>					
18067	Surety. American Cotton Oil Co., Memphis, Tenn.....	2.62	.....	.....	.....
17989	Danish. Humphreys-Godwin Co., Memphis, Tenn.....	.....	.....	.....	Wire tags, illegal.
15728	Sun. A. C. Westervelt & Co., Mem- phis, Tenn.....	.....	.....	.....	Wire tags, illegal.
<i>Linseed Meal</i>					
17998	Oil Meal. Kelloggs & Miller, Amster- dam, N. Y.....	.....	.....	.....	Wire tags, illegal.
<i>Wheat Middlings</i>					
17986	Hecker-Jones-Jewell Milling Co., N. Y.....	.....	.....	2.04	.....
<i>Wheat Feed (Mixed Feed)</i>					
15722	Wirthmore. St. Albans Grain Co., St. Albans, Vt.....	.....	0.47	.....	.....
<i>Corn Gluten Feed</i>					
15724	Success. U. S. Food Products Corp. Peoria, Ill.....	.....	1.41	.....	.....
<i>Hominy Feed</i>					
15752	Illinois Snowflake. Illinois Feed & Elevator Co., Bloomington, Ill..	.....	0.48	.....	.....
17983	White. Kellogg Toasted Corn Flake Co., Battle Creek, Mich.....	.....	.....	2.27	.....
18060	Plymouth. Plymouth Milling Co., Lemars, Iowa.....	.....	2.00	.....	.....
18022	Sparr Cereal Co., Marchfield, Wis..	.....	0.55	.....	.....
<i>Brewers' Products</i>					
15755	Dried Brewers' Grains. Atlantic Ex- port Co., N. Y.....	1.44	.....	.....	.....
<i>Proprietary Mixed Feeds.</i>					
18002	Blatchford's Calf Meal, Blatchford Calf Meal Co., Wauregan, Ill..	.....	0.39	.....	.....
18023	Vitality Milk Ration. Rosenbaum Bros., Chicago, Ill.....	2.06	.....	.....	.....
18026	Nobotheration Stock Feed. C. W. Campbell Co., Westerly, R. I..	.....	1.09	.....	.....
18047	Delaware. Delaware Mills, Deposite, N. Y.....	1.37	0.91	.....	.....
<i>Poultry Feeds</i>					
18008	Wirthmore. St. Albans Grain Co., St. Albans, Vt.....	5.75	.....	.....	.....

TABLE III.—ANALYSES OF COMMERCIAL FEEDS,

Station No.	Manufacturer and Brand.	Retail Dealer.
OIL SEED PRODUCTS.		
<i>Cottonseed Meal.</i>		
18001	Longhorn. American Cotton Oil Co., Memphis, Tenn.....	<i>Middletown:</i> Meech & Stoddard, Inc..... Guaranty.....
18067	Surety. American Cotton Oil Co., Memphis, Tenn.....	<i>Middletown:</i> Meech & Stoddard, Inc..... Guaranty.....
18065	Monarch. Ashcraft-Wilkinson Co., Atlanta, Ga.....	<i>Hartford:</i> Garber-Northam Grain Co..... Guaranty.....
15747	Paramount. Ashcraft-Wilkinson Co., Atlanta, Ga.....	<i>West Cheshire:</i> G. W. Thorpe. Guaranty.....
18028	St. Clair. East St. Louis Cotton Oil Co., National Stock Yards, Ill.....	<i>Westerly:</i> C. W. Campbell Co. Guaranty.....
15726	Bull. Humphreys-Godwin Co., Memphis, Tenn.....	<i>Willimantic:</i> Willimantic Grain Co..... Guaranty.....
17989†	Danish. Humphreys-Godwin Co., Memphis, Tenn.....	<i>Wallingford:</i> A. E. Hall..... Guaranty.....
15765	Dixie. Humphreys-Godwin Co., Memphis, Tenn.....	<i>Rockville:</i> Rockville Milling Co..... Guaranty.....
18054	Forfat. Humphreys-Godwin Co., Memphis, Tenn.....	<i>Torrington:</i> D. L. Talcott..... Guaranty.....
17994	Economy. Lyle & Lyle, Huntsville, Ala.....	<i>Plantsville:</i> C. A. Cowles..... Guaranty.....
15758	Syracold. Syracuse Milling Co., Syracuse, N. Y.....	<i>Somers:</i> W. C. Everett..... Guaranty.....
17999	Taylor Commission Co., Atlanta, Ga.....	<i>Middletown:</i> Meech & Stoddard, Inc..... Guaranty.....
15721	Planet. A. C. Westervelt & Co., Memphis, Tenn.....	<i>So. Coventry:</i> So. Coventry Grain Elevator..... Guaranty.....
15728†	Sun. A. C. Westervelt & Co., Memphis, Tenn.....	<i>Willimantic:</i> E. A. Buck Co.. Guaranty..... Average guaranty..... Average of analyses..... Average digestible.....
<i>Linseed Meal, Old Process.</i>		
18043	Amco. American Milling Co., Peoria, Ill.	<i>New Haven:</i> R. G. Davis & Sons..... Guaranty.....
15729	Ground Oil Cake. Archer-Daniels Linseed Co., Buffalo, N. Y.....	<i>Willimantic:</i> E. A. Buck Co.. Guaranty.....

† Wire tags.

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Station No.	Pounds per Hundred.						Price per ton.
	Water.	Ash.	Protein (N x 6.25).	Fiber.	Nitrogen-free Extract (Starch, gum, etc.).	Ether Extract (Crude Fat).	
18001	5.59	7.35	43.31	8.13	26.37	9.25	\$52.00
.....	.....	.....	43.00	12.00	25.00	6.00	.....
18067	6.50	5.67	33.38	14.74	33.55	6.16	.....
.....	.....	.....	36.00	14.00	27.00	5.50	.....
18065	5.38	7.35	44.06	7.73	27.49	7.99	51.00
.....	.....	.....	43.00	10.00	23.00	6.00	.....
15747	6.94	6.00	36.88	12.99	30.52	6.67	49.00
.....	.....	.....	36.00	14.00	27.00	5.50	.....
18028	7.03	6.41	36.88	11.70	31.64	6.34	50.00
.....	.....	.....	36.00	16.00	.....	5.00	.....
15726	6.01	6.77	42.75	8.60	28.88	6.99	43.00
.....	.....	.....	43.00	10.00	26.00	5.00	.....
17989	6.48	5.61	36.75	14.11	30.31	6.74	49.00
.....	.....	.....	36.00	15.00	25.00	5.00	.....
15765	6.02	6.09	42.56	8.84	29.18	7.31	50.00
.....	.....	.....	41.00	10.00	26.00	5.00	.....
18054	5.93	7.34	39.50	9.51	30.00	7.72	52.00
.....	.....	.....	38.55	12.00	25.00	5.00	.....
17994	6.24	6.63	36.44	11.11	32.37	7.21	49.00
.....	.....	.....	36.00	14.00	27.00	5.00	.....
15758	6.57	6.60	36.56	12.98	30.23	7.06	48.00
.....	.....	.....	36.00	15.00	25.00	5.00	.....
17999	6.84	5.90	37.56	11.98	29.31	8.41	48.00
.....	.....	.....	36.00	14.00	27.00	5.50	.....
15721	6.36	7.08	43.38	7.40	27.01	8.77	52.00
.....	.....	.....	43.00	10.00	26.00	6.00	.....
15728	5.83	6.28	38.06	12.19	30.60	7.04	48.00
.....	.....	.....	36.00	15.00	25.00	5.00	.....
.....	.....	.....	38.53	12.92	25.69	5.32	.....
.....	6.26	6.50	39.14	10.85	29.85	7.40	49.30
.....	.....	.....	32.9	4.0	22.4	7.0	.....
18043	8.22	5.94	31.06	8.87	40.26	5.65	54.00
.....	.....	.....	30.00	.....	.....	5.00	.....
15729	7.07	5.94	30.31	8.65	39.37	8.66	48.00
.....	.....	.....	31.00	10.00	.....	6.00	.....

TABLE III.—ANALYSES OF COMMERCIAL FEEDS,

Station No.	Manufacturer and Brand.	Retail Dealer.
	OIL SEED PRODUCTS— <i>Concluded</i> <i>Linseed Meal, Old Process—Concluded</i>	
17998†	Oil Meal. Kellogg & Miller, Amsterdam, N. Y.	<i>Middlefield:</i> Middlefield Grain & Coal Co..... Guaranty.....
18050	Linseed Cake. Linseed Products Co., Minneapolis, Minn.....	<i>New Milford:</i> Geo. T. Soule.. Guaranty.....
18016	Linseed Oil Meal. Mann Bros. Co., Buffalo, N. Y.....	<i>Norwich:</i> Yantic Grain & Products Co..... Guaranty.....
17988	Oil Meal. Spencer Kellogg & Sons, Inc., Undercliff, N. J.....	<i>Wallingford:</i> A. E. Hall..... Guaranty..... Average guaranty..... Average of analyses..... Average digestible.....
	WHEAT PRODUCTS. <i>Wheat Bran.</i>	
18020	Pennant. E. W. Bailey & Co., Montpelier, Vt.	<i>Norwich:</i> Yantic Grain and Products Co..... Guaranty.....
18007	Bay State. Bay State Milling Co., Winona, Minn.....	<i>New London:</i> Conn. Grain Corp..... Guaranty.....
15734*	The Blair Milling Co., Atchison, Kans.....	<i>East Haven:</i> F. A. Forbes..... Guaranty.....
18056*	Granite. J. G. Davis Co., Rochester, N. Y.....	<i>Torrington:</i> D. L. Talcott.... Guaranty.....
15767*	Duluth Imperial. Duluth Superior Milling Co., Duluth, Minn.....	<i>Rockville:</i> Rockville Grain & Coal Co..... Guaranty.....
18019*	Duluth Imperial. Duluth Superior Milling Co., Duluth, Minn.....	<i>Norwich:</i> Yantic Grain & Products Co..... Guaranty.....
18053*	Lucky. Federal Mill & Lockport Elevator Co., N. Y.....	<i>New Milford:</i> Geo. E. Ackley Co..... Guaranty.....
15757	Pure. Grafton Roller Mill Co., Grafton, No. Dakota.....	<i>Thompsonville:</i> Geo. S. Phelps & Co..... Guaranty.....
17995*	Choice. Hecker-Jones-Jewell Milling Co., N. Y.	<i>Plantville:</i> C. A. Cowles..... Guaranty.....
15751	The Jenkinson Mills Co., Williston, No. Dakota.	<i>West Cheshire:</i> G. W. Thorpe. Guaranty.....
15738*	The Kaul Milling Co., Kansas City Kans.....	<i>Branford:</i> S. V. Osborn..... Guaranty.....
15753	Niagara Pure. Niagara Falls Milling Co., Niagara Falls, N. Y.....	<i>Thompsonville:</i> Geo. S. Phelps & Co..... Guaranty.....

† Wire tags.

* With screenings.

INSPECTION OF 1921—Continued.

Station No.	Pounds per Hundred.						Price per ton.
	Water.	Ash.	Protein (N. x 6.25).	Fiber.	Nitrogen-free Extract (Starch, gum, etc.).	Ether Extract (Crude Fat).	
17998	7.97	6.20	31.13	8.73	39.62	6.35	\$54.00
.....	.....	.....	31.00	9.00	.....	4.00	.....
18050	8.20	6.11	29.75	7.84	40.67	7.43	50.00
.....	.....	.....	30.00	.....	.....	5.00	.....
18016	8.25	5.18	35.88	8.18	35.94	6.57	50.00
.....	.....	.....	33.00	10.00	.....	6.00	.....
17988	8.02	6.27	30.00	8.55	40.78	6.38	50.00
.....	.....	.....	31.00	10.00	.....	5.00	.....
.....	.....	.....	31.00	9.75	.....	5.16	.....
.....	7.95	5.94	31.35	8.47	39.45	6.84	51.00
.....	.....	.....	27.9	4.8	30.8	6.1	.....
18020	8.84	6.91	16.81	9.92	52.81	4.71	31.00
.....	.....	.....	14.50	10.00	.....	4.00	.....
18007	8.58	6.32	16.13	9.94	53.78	5.25	30.00
.....	.....	.....	13.00	.....	.....	3.00	.....
15734	8.01	6.58	17.25	8.22	55.34	4.60	25.00
.....	.....	.....	14.50	10.00	.....	3.50	.....
18056	8.57	5.88	17.00	8.63	56.56	3.36	34.00
.....	.....	.....	14.00	.....	.....	3.00	.....
15767	8.72	6.01	16.75	10.59	52.15	5.78	27.00
.....	.....	.....	15.00	.....	.....	4.00	.....
18019	8.15	5.81	17.13	9.59	53.43	5.89	31.00
.....	.....	.....	15.00	.....	.....	4.00	.....
18053	8.40	6.48	15.56	10.44	53.83	5.29	29.00
.....	.....	.....	12.00	.....	.....	3.50	.....
15757	7.19	6.19	16.75	9.50	54.63	5.74	27.00
.....	.....	.....	15.00	.....	.....	3.00	.....
17995	8.16	6.48	16.00	9.94	50.64	8.78	28.00
.....	.....	.....	14.50	12.00	51.55	3.75	.....
15751	7.45	6.59	16.00	10.82	53.36	5.78	25.00
.....	.....	.....	15.49	.....	.....	4.39	.....
15738	8.74	6.54	18.06	8.29	53.54	4.83	27.00
.....	.....	.....	14.50	10.00	.....	3.50	.....
15753	7.53	6.11	17.94	8.48	54.66	5.28	27.00
.....	.....	.....	16.00	.....	.....	3.50	.....

TABLE III.—ANALYSES OF COMMERCIAL FEEDS,

Station No.	Manufacturer and Brand.	Retail Dealer.
<i>WHEAT PRODUCTS—Continued.</i> <i>Wheat Bran—Concluded.</i>		
17992	Niagara Choice. Niagara Falls Milling Co., Niagara Falls, N. Y.	<i>Meriden:</i> August Grulich Est. Guaranty
17971*	Pillsbury's. Pillsbury Mills, Minneapolis, Minn.	<i>Ansonia:</i> Ansonia Flour & Grain Co. Guaranty
17969	Quaker City Flour Mills Co., Philadelphia, Pa.	<i>North Haven:</i> W. L. Thorpe.. Guaranty
15766*	Washburn Mills, Minneapolis, Minn.	<i>Rockville:</i> Rockville Milling Co. Guaranty
18068*	Washburn-Crosby Co., Minneapolis, Minn.	<i>Middletown:</i> Meech & Stod- dard, Inc. Guaranty
18024*	Pioneer. Western Canada Flour Mills Co., Canada	<i>Jewett City:</i> Jewett City Grain Co.
17976*	Atkinson's. Made in Minneapolis, Minn.	<i>Southport:</i> C. Buckingham & Co. Guaranty
<i>Wheat Middlings.</i>		
17973	Bay State. Bay State Milling Co., Winona, Minn.	<i>Ansonia:</i> Ansonia Flour & Grain Co. Guaranty
18010*	Dairy Maid. Federal Mill & Elev. Co., Lock- port, N. Y.	<i>New London:</i> P. Swartz Co.. Guaranty
17986*	Hecker-Jones-Jewell Milling Co., New York.	<i>Stamford:</i> W. L. Crabb.. Guaranty
15745*	Rex. Maple Leaf Milling Co., Toronto, Canada	<i>Hamden:</i> I. W. Beers.. Guaranty
17991	Niagara. Niagara Falls Milling Co., Niagara Falls, N. Y.	<i>Meriden:</i> August Grulich-Est. Guaranty
18033*	Pillsbury's B. Pillsbury Mills, Minneapolis, Minn.	<i>Plainville:</i> Eaton Bros.. Guaranty
17966	Quaker City. Quaker City Flour Mills Co., Philadelphia, Pa.	<i>North Haven:</i> W. L. Thorpe.. Guaranty
18021*	Alta. Russell Miller Milling Co., Minneapolis, Minn.	<i>Norwich:</i> Yantic Grain & Products Co. Guaranty
15742*	Snowball. Shane Bros. & Wilson Co., Minne- apolis, Minn.	<i>Guilford:</i> Fred C. Morse.. Guaranty
18005*	Angelus. Thompson Milling Co., Lockport, N. Y.	<i>New Britain:</i> C. W. Lines Co. Guaranty
15740*	Geo. Urban Milling Co., Buffalo, N. Y.	<i>Branford:</i> S. V. Osborn.. Guaranty

* With screenings.

INSPECTION OF 1921—Continued.

Station No.	Pounds per Hundred.						Price per ton.
	Water.	Ash.	Protein (N x 6.25).	Fiber.	Nitrogen-free Extract (Starch, gum, etc.).	Ether Extract (Crude Fat).	
17992	8.46	6.29	17.19	9.15	53.82	5.09	\$29.00
.....	.....	.....	16.00	.....	.....	3.50	.....
17971	8.77	5.98	16.50	9.91	53.70	5.14	28.00
.....	.....	.....	13.00	.....	.....	4.00	.....
17969	8.85	6.33	15.38	8.54	56.17	4.73	27.00
.....	.....	.....	13.00	.....	.....	3.00	.....
15766	9.18	6.36	16.50	9.89	53.00	5.07	25.00
.....	.....	.....	13.00	.....	.....	4.00	.....
18068	8.84	6.65	15.63	10.09	54.39	4.40	.....
.....	.....	.....	13.00	.....	.....	4.00	.....
18024	9.29	5.94	16.56	9.13	53.44	5.64	29.00
.....	.....	.....	14.50	.....	.....	3.50	.....
17976	7.13	6.52	16.25	9.78	54.97	5.35	30.00
.....	.....	.....	13.00	.....	.....	4.00	.....
.....	.....	.....	14.15	10.50	.....	3.64	.....
.....	8.36	6.31	16.60	9.51	53.92	5.30	28.27
.....	.....	.....	12.6	4.0	40.1	3.3	.....
17973	11.24	2.85	17.38	2.61	61.92	4.00	40.00
.....	.....	.....	14.00	.....	.....	2.00	.....
18010	8.25	4.72	16.38	6.36	59.25	5.04	30.00
.....	.....	.....	13.00	.....	.....	3.00	.....
17986	6.85	5.29	17.50	10.54	53.96	5.86	28.00
.....	.....	.....	15.50	8.50	54.24	4.50	.....
15745	8.72	4.47	17.63	7.93	55.42	5.83	28.00
.....	.....	.....	16.00	.....	.....	5.50	.....
17991	8.13	4.80	18.13	7.98	55.42	5.54	30.00
.....	.....	.....	16.50	.....	.....	3.50	.....
18033	9.09	5.35	16.88	8.56	55.58	4.54	33.00
.....	.....	.....	14.00	.....	.....	4.00	.....
17966	8.62	3.78	16.69	4.47	61.33	5.11	36.00
.....	.....	.....	14.00	.....	.....	4.00	.....
18021	7.99	5.10	19.00	8.01	53.50	6.40	34.00
.....	.....	.....	15.00	.....	.....	4.50	.....
15742	9.16	4.37	18.75	5.36	57.59	4.77	34.00
.....	.....	.....	16.00	.....	.....	4.00	.....
18005	8.38	4.76	16.94	7.16	57.85	4.91	32.00
.....	.....	.....	11.00	.....	.....	3.00	.....
15740	8.39	5.40	16.06	7.95	56.99	5.21	30.00
.....	.....	.....	15.00	9.50	.....	4.00	.....

TABLE III.—ANALYSES OF COMMERCIAL FEEDS,

Station No.	Manufacturer and Brand.	Retail Dealer.
	<i>WHEAT PRODUCTS—Concluded</i> <i>Wheat Middlings—Concluded</i>	
18061*	Victor. Victor Flour Mills, Victor, N. Y.....	<i>Winsted:</i> E. Manchester & Sons..... Guaranty.....
15720*	Standard. Washburn-Crosby Co., Minneapolis. Minn.....	<i>Stafford Springs:</i> Dennis Grain Mill..... Guaranty.....
17974*	Atkinson's. Made in Minneapolis, Minn.....	<i>Southport:</i> C. Buckingham & Co..... Guaranty..... Average guaranty..... Average of analyses..... Average digestible.....
	<i>Red Dog Flour.</i>	
18046	Marshall Milling Co., Marshall, Minn.....	<i>Danbury:</i> F. C. Benjamin.... Guaranty.....
18062	Komo. St. Paul Milling Co., St. Paul, Minn....	<i>Hartford:</i> Meech Grain Co... Guaranty.....
18041	Adrian. Washburn-Crosby Co., Minneapolis, Minn.....	<i>New Haven:</i> R. G. Davis & Sons..... Guaranty..... Average guaranty..... Average of analyses..... Average digestible.....
	<i>Wheat Feed (Mixed Feed).</i>	
15754	Grafton. Grafton Roller Mill Co., Grafton, No. Dakota.....	<i>Thompsonville:</i> Geo. S. Phelps & Co..... Guaranty.....
18045*	Pillsbury's Fancy. Pillsbury Mills, Minneapolis, Minn.....	<i>Danbury:</i> H. E. Meeker.... Guaranty.....
15741	Occident. Russell Miller Milling Co., Minneapolis, Minn.....	<i>Guilford:</i> Fred C. Morse.... Guaranty.....
15722	Wirthmore. St. Albans Grain Co., St. Albans, Vt.....	<i>South Coventry:</i> South Coventry Grain Elev..... Guaranty.....
17972	Gold Mine. Sheffield King Milling Co., Minneapolis, Minn.....	<i>Ansonia:</i> Ansonia Flour & Grain Co..... Guaranty.....
18057	Kent. Williams Bros. Co., Kent, Ohio.....	<i>Winsted:</i> E. Manchester & Sons Guaranty..... Average guaranty..... Average of analyses..... Average digestible.....

*With screenings.

INSPECTION OF 1921—Continued.

Station No.	Pounds per Hundred.						Price per ton.
	Water.	Ash.	Protein (N. x 6.25).	Fiber.	Nitrogen-free Extract (Starch, gum, etc.).	Ether Extract (Crude Fat).	
18061	8.56	5.37	17.50	7.38	55.29	5.90	\$33.00
.....	.....	.....	17.50	.....	.....	5.00	.....
15720	9.61	5.03	17.69	7.67	54.71	5.29	26.00
.....	.....	.....	14.00	.....	.....	4.00	.....
17974	9.46	4.13	18.25	5.08	58.14	4.94	30.00
.....	.....	.....	15.00	.....	.....	5.00	.....
.....	.....	.....	14.75	.....	.....	4.00	.....
.....	8.74	4.67	17.48	6.93	56.95	5.23	31.71
.....	.....	.....	13.5	2.1	44.4	4.6	.....
18046	9.88	3.60	18.06	4.27	59.85	4.34	44.00
.....	.....	.....	15.00	.....	.....	4.00	.....
18062	8.87	4.63	19.50	3.61	57.74	5.65	54.00
.....	.....	.....	16.00	.....	.....	4.00	.....
18041	9.68	2.63	16.75	2.99	64.18	3.77	43.00
.....	.....	.....	16.00	.....	.....	4.00	.....
.....	.....	.....	15.66	.....	.....	4.00	.....
.....	9.47	3.62	18.10	3.62	60.60	4.59	47.00
.....	.....	.....	15.93	1.30	53.32	3.95	.....
15754	8.17	5.62	17.13	8.25	55.23	5.60	29.00
.....	.....	.....	14.00	.....	.....	2.70	.....
18045	8.53	4.59	17.94	6.49	57.21	5.24	36.00
.....	.....	.....	14.00	.....	.....	4.00	.....
15741	8.87	5.72	19.00	8.41	52.04	5.96	28.00
.....	.....	.....	16.00	.....	.....	4.50	.....
15722	8.68	4.43	16.75	6.40	59.54	4.20	38.00
.....	.....	.....	15.00	.....	.....	4.50	.....
17972	8.74	5.34	16.44	9.39	54.79	5.30	30.00
.....	.....	.....	15.00	.....	.....	4.50	.....
18057	8.84	5.27	15.13	7.18	59.10	4.48	38.00
.....	.....	.....	16.00	.....	.....	3.50	.....
.....	.....	.....	15.00	.....	.....	3.95	.....
.....	8.64	5.16	17.06	7.68	56.33	5.13	33.16
.....	.....	.....	13.14	2.76	42.82	4.44	.....

TABLE III.—ANALYSES OF COMMERCIAL FEEDS,

Station No.	Manufacturer and Brand.	Retail Dealer.
	RYE PRODUCTS.	
18040	Feed. Boutwell Milling Co., Troy, N. Y.....	<i>New Haven:</i> R. G. Davis & Sons..... Guaranty.....
18055	Irving Mills Feed. Van Vechting Milling Co., Rochester, N. Y.....	<i>Torrington:</i> D. L. Talcott.... Guaranty.....
	MAIZE PRODUCTS.	
	<i>Corn Gluten Feed.</i>	
15733	Buffalo. Corn Products Refining Co., N. Y....	<i>East Haven:</i> F. A. Forbes.... Guaranty.....
18000	Douglas. Penick & Ford., Inc., Chicago, Ill....	<i>Middletown:</i> Meech & Stoddard, Inc..... Guaranty.....
17970	Staley's. A. E. Staley Mfg. Co., Decatur, Ill....	<i>Ansonia:</i> Ansonia Flour & Grain Co..... Guaranty.....
15724	Success. U. S. Food Products Corp., Peoria, Ill.	<i>Willimantic:</i> Willimantic Grain Co..... Guaranty..... Average guaranty..... Average of analyses..... Average digestible.....
	<i>Corn Gluten Meal.</i>	
18030	Diamond. Corn Products Refining Co., N. Y..	<i>Westerly:</i> C. W. Campbell Co..... Guaranty.....
	<i>Hominy Feed.</i>	
17978	Homco. American Hominy Co., Indianapolis, Ind.....	<i>Norwalk:</i> C. E. Slauson Co.. Guaranty.....
15737	Emco. Evans Milling Co., Indianapolis, Ind....	<i>Branford:</i> S. V. Osborn..... Guaranty.....
15752	Illinois Snowflake. Illinois Feed & Elevator Co., Bloomington, Ill.....	<i>Thompsonville:</i> Geo. S. Phelps & Co..... Guaranty.....
17983	White. Kellogg Toasted Corn Flake Co., Battle Creek, Mich.....	<i>Stamford:</i> W. L. Crabb..... Guaranty.....
18003	Badger. Chas. A. Krause Milling Co., Milwaukee, Wis.....	<i>Middletown:</i> Meech & Stoddard, Inc..... Guaranty.....
15743	Choice Steam Cooked. Miner-Hillard Milling Co., Wilkes-Barre, Pa.....	<i>Guilford:</i> Fred C. Morse.... Guaranty.....
18066	Mystic. Mystic Mills, Sioux City, Iowa.....	<i>Hartford:</i> Garber-Northam.. Grain Co..... Guaranty.....

INSPECTION OF 1921—Continued.

Station No.	Pounds per Hundred.						Price per ton.
	Water.	Ash.	Protein (N x 6.25).	Fiber.	Nitrogen-free Extract (Starch, gum, etc.).	Ether Extract (Crude Fat).	
18040	8.79	3.81	15.44	4.29	64.49	3.18	\$32.00
.....	.....	.....	13.50	.....	.....	3.00	.....
18055	8.64	3.28	16.50	3.95	64.33	3.30	29.00
.....	.....	.....	13.00	.....	.....	2.00	.....
15733	6.50	5.13	25.50	7.15	52.52	3.20	38.00
.....	.....	.....	23.00	.....	.....	1.00	.....
18000	6.83	4.31	23.25	6.73	56.74	2.14	38.50
.....	.....	.....	23.00	.....	.....	1.00	.....
17970	8.50	3.60	24.44	6.62	54.43	2.41	40.00
.....	.....	.....	23.00	.....	.....	1.00	.....
15724	6.63	4.08	23.75	7.83	54.12	3.59	38.00
.....	.....	.....	23.00	9.00	.....	5.00	.....
.....	.....	.....	23.00	.....	.....	2.00	.....
.....	7.11	4.28	24.23	7.08	54.47	2.83	38.62
.....	.....	.....	20.6	3.9	49.0	2.6	.....
18030	7.79	1.56	45.25	11.61	30.73	3.06	54.00
.....	.....	.....	40.00	.....	.....	1.00	.....
17978	6.67	2.72	10.94	5.07	66.59	8.01	35.00
.....	.....	.....	10.00	6.00	.....	6.00	.....
15737	8.49	2.99	11.75	4.97	62.13	9.67	34.00
.....	.....	.....	10.00	7.00	55.00	7.50	.....
15752	9.94	1.25	9.50	1.90	73.39	4.02	30.00
.....	.....	.....	9.50	3.00	.....	4.50	.....
17983	6.57	2.51	11.00	7.27	65.62	7.03	37.00
.....	.....	.....	10.00	5.00	55.00	5.00	.....
18003	8.08	3.01	12.25	3.46	65.78	7.42	31.00
.....	.....	.....	10.00	5.00	.....	5.00	.....
15743	8.55	2.13	10.81	4.68	68.19	5.64	31.00
.....	.....	.....	10.00	5.00	.....	4.00	.....
18066	8.24	2.31	10.56	4.10	68.07	6.72	32.00
.....	.....	.....	8.50	5.00	65.00	4.00	.....

TABLE III.—ANALYSES OF COMMERCIAL FEEDS,

Station No.	Manufacturer and Brand.	Retail Dealer.
	MAIZE PRODUCTS— <i>Concluded.</i> <i>Hominy Feed—Concluded</i>	
15750	The Patent Cereal Co., Geneva, N. Y.....	<i>West Cheshire:</i> G. W. Thorpe. Guaranty.....
18017	Plymouth. Plymouth Milling Co., Lemars, Iowa.....	<i>Yantic:</i> Yantic Grain & Prod- ucts Co.....
18060	Plymouth. Plymouth Milling Co., Lemars, Iowa.....	Guaranty..... <i>Winsted:</i> E. Manchester & Sons.....
18022	Sparr Cereal Co., Marchfield, Wis.....	Guaranty..... <i>Yantic:</i> Yantic Grain & Prod- ucts Co.....
		Guaranty..... Average guaranty..... Average of analyses..... Average digestible.....
	<i>Corn Meal.</i>	
18069	Meech & Stoddard, Inc., Middletown.....	<i>Middletown:</i> Meech & Stod- dard, Inc.....
	DISTILLERS' PRODUCTS.	
18042	Corn Distillers' Dried Grains. American Mill- ing Co., Peoria, Ill.....	<i>New Haven:</i> R. G. Davis & Sons.....
18059	Rossville Distillers' Dried Grains. The Ross- ville Co., Lawrenceburg, Ind.....	Guaranty..... <i>Winsted:</i> E. Manchester & Sons..... Guaranty.....
	BREWERS' PRODUCTS.	
15755	Dried Brewers' Grains. Atlantic Export Co., N. Y.....	<i>Thompsonville:</i> Geo. S. Phelps & Co.....
15732	Fleischmann's Dried Grains. Fleischmann Co., Peekskill, N. Y.....	Guaranty..... <i>East Haven:</i> F. A. Forbes.... Guaranty.....
	DRIED BEET PULP.	
18004	Dried Beet Pulp. Clover Leaf Milling Co., Buffalo, N. Y.....	<i>New Britain:</i> Stanley Svea Grain & Coal Co.....
18027	Dried Molasses-Beet Pulp. Larowe Milling Co., Detroit, Mich.....	Guaranty..... <i>Westerly:</i> C. W. Campbell... Guaranty.....
15744	Dried Beet Pulp. Larowe Milling Co., Detroit, Michigan.....	<i>Hamden:</i> I. W. Beers..... Guaranty.....
17980	Dried Beet Pulp. Larowe Milling Co., Detroit, Mich.....	<i>Norwalk:</i> C. E. Slauson Co... Guaranty.....
17987	Dried Beet Pulp. Larowe Milling Co., Detroit, Mich.....	Guaranty..... <i>Wallingford:</i> A. E. Hall..... Guaranty.....
17964	Dried Beet Pulp. Michigan Sugar Co., Saginaw, Mich.....	<i>North Haven:</i> W. L. Thorpe.. Guaranty.....

INSPECTION OF 1921—Continued.

Station No.	Pounds per Hundred.						Price per ton.
	Water.	Ash.	Protein (N, x 6.25).	Fiber.	Nitrogen-free Extract (Starch, gum, etc.).	Ether Extract (Crude Fat).	
15750	6.97	2.78	11.38	5.15	67.97	5.75	\$30.00
.....	.....	.....	10.00	5.00	60.00	5.00	.....
18017	6.84	2.62	11.31	4.22	66.40	8.61	34.00
.....	.....	.....	10.00	.....	.....	8.50	.....
18060	8.28	2.00	10.13	3.52	69.57	6.50	37.00
.....	.....	.....	10.00	.....	.....	8.50	.....
18022	7.76	2.16	10.25	4.10	68.28	7.45	34.00
.....	.....	.....	10.00	9.00	.....	8.00	.....
.....	.....	.....	9.81	5.55	58.44	6.00	.....
.....	7.85	2.40	10.89	4.40	67.48	6.98	33.18
.....	.....	.....	7.2	3.3	60.7	6.4	.....
18069	9.82	1.40	9.38	2.06	73.29	4.05	.....
18042	5.31	1.54	29.69	11.72	37.77	13.97	38.00
.....	.....	.....	28.00	15.00	30.00	8.00	.....
18059	5.34	3.15	31.13	12.17	35.40	12.81	53.00
.....	.....	.....	30.00	13.00	.....	10.00	.....
15755	5.85	3.45	23.56	12.28	47.55	7.31	39.00
.....	.....	.....	25.00	14.00	.....	6.00	.....
15732	5.03	2.45	19.94	16.33	48.46	7.79	25.00
.....	.....	.....	17.00	21.00	.....	6.00	.....
18004	7.69	3.21	9.38	19.45	58.81	1.46	37.00
.....	.....	.....	8.00	20.00	58.00	0.50	.....
18027	6.39	6.19	9.63	15.29	61.77	0.73	31.00
.....	.....	6.00	8.00	20.00	54.00	.....	.....
15744	6.21	3.09	8.93	20.13	60.98	0.66	35.00
.....	.....	.....	8.00	.....	.....	0.50	.....
17980	6.39	3.50	9.13	18.37	61.67	0.94	35.00
.....	.....	.....	8.00	20.00	58.00	0.50	.....
17987	5.83	2.67	9.88	20.09	60.59	0.94	.....
.....	.....	.....	8.00	20.00	58.00	0.50	.....
17964	6.32	3.53	9.69	19.95	59.63	0.88	32.00
.....	.....	.....	8.00	.....	.....	0.50	.....

TABLE III.—ANALYSES OF COMMERCIAL FEEDS,

Station No.	Manufacturer and Brand.	Retail Dealer.
	DRIED BEET PULP—Concluded	
18011	Dried Beet Pulp. The Ubiko Milling Co., Cincinnati, Ohio.....	<i>Mystic:</i> Mystic Grain Co.... Guaranty..... Average guaranty..... Average of analyses..... Average digestible.....
	PROPRIETARY MIXED FEEDS. <i>Horse, Dairy and Stock Feeds.</i>	
18002	Blatchford's Calf Meal. Blatchford Calf Meal Co., Wauregan, Ill.....	<i>Middletown:</i> Meech & Stoddard, Inc..... Guaranty.....
18049	Schumacher Calf Meal. Quaker Oats Co., Chicago, Ill.....	<i>New Milford:</i> Geo. T. Soule.. Guaranty.....
18006	Portage Horse Feed. Akron Feed & Milling Co., Akron, Ohio.....	<i>New London:</i> Conn. Grain Corp..... Guaranty.....
17982	Armour's Horse Feed. Armour Grain Co., Chicago, Ill.....	<i>Stamford:</i> W. L. Crabb..... Guaranty.....
18038	Big 4 Horse Feed. Clover Leaf Milling Co., Buffalo, N. Y.....	<i>New Haven:</i> Crittenden-Benham Co..... Guaranty.....
15739	Morhaste Horse Feed. Curtiss Grain Corp., Buffalo, N. Y.....	<i>Branford:</i> S. V. Osborn..... Guaranty.....
15762	Kingfalfa Horse Feed. Hales & Hunter Co., Chicago, Ill.....	<i>Manchester:</i> Little & McKinney..... Guaranty.....
15759	Hamlin's Quality Feed. Dwight Hamlin, Pittsburgh, Pa.....	<i>Hazardville:</i> A. D. Bridges Sons..... Guaranty.....
17967	Besco Heavy Grain Horse Feed. G. C. Haste, Inc., New York.....	<i>North Haven:</i> W. L. Thorpe.. Guaranty.....
18025	Algrane Horse Feed. H-O Co.'s Mills, Buffalo, N. Y.....	<i>Westerly:</i> C. W. Campbell Co. Guaranty.....
18037	Chelsea Horse Feed. Park & Pollard Co., Boston, Mass.....	<i>Waterbury:</i> Spencer Grain Co. Guaranty.....
18031	Peters Arab Horse Feed. M. C. Peters Mills Co., Omaha, Neb.....	<i>Bristol:</i> Goodsell Bros..... Guaranty.....
15756	Green Cross Horse Mixed Feed. Quaker Oats Co., Chicago, Ill.....	<i>Thompsonville:</i> Geo. S. Phelps & Co..... Guaranty.....
15763	Mogul Mixed Feed. Quaker Oats Co., Chicago, Ill.....	<i>Manchester:</i> Little & McKinney..... Guaranty.....
18048	Wirthmore Pig Feed. C. M. Cox, Boston, Mass.;	<i>New Milford:</i> Geo. T. Soule.. Guaranty.....
17963	Larrowe Hog Feed. Larrowe Milling Co., Detroit, Mich.....	<i>Rockville:</i> Rockville Grain & Coal Co..... Guaranty.....

INSPECTION OF 1921—Continued.

Station No.	Pounds per Hundred.						Price per ton.
	Water.	Ash.	Protein (N. x 6.25).	Fiber.	Nitrogen-free Extract (Starch, gum, etc.).	Ether Extract (Crude Fat).	
18011	5.81	2.96	10.06	19.73	60.34	1.10	\$32.00
.....	.....	.....	8.00	20.00	60.00	0.50	.....
.....	.....	.....	8.00	20.00	57.60	0.50	.....
.....	6.37	3.59	9.52	19.00	60.57	0.95	33.66
.....	.....	.....	5.0	15.8	50.2	.....	.....
18002	8.58	5.81	24.56	7.02	49.42	4.61	87.00
.....	.....	.....	24.00	.....	.....	5.00	.....
18049	7.24	6.22	20.63	2.42	54.48	9.01	98.00
.....	.....	.....	18.00	.....	.....	8.00	.....
18006	5.43	5.41	11.63	9.66	65.29	2.58	38.00
.....	.....	.....	10.00	.....	.....	2.00	.....
17982	6.50	4.53	12.13	10.64	61.30	4.90	44.00
.....	.....	.....	11.00	.....	.....	4.00	.....
18038	4.40	5.75	9.00	11.13	65.79	3.93	33.00
.....	.....	.....	9.00	.....	.....	2.00	.....
15739	6.48	5.86	9.63	8.85	65.45	3.73	35.00
.....	.....	.....	7.00	14.00	.....	3.00	.....
15762	5.49	6.93	11.56	12.04	61.60	2.38	42.00
.....	.....	.....	10.00	.....	.....	2.00	.....
15759	4.88	6.14	8.88	13.13	64.77	2.20	39.00
.....	.....	.....	9.00	.....	.....	1.50	.....
17967	5.27	4.11	10.81	8.28	67.61	3.92	42.00
.....	.....	.....	9.00	.....	.....	2.00	.....
18025	7.70	5.44	10.81	10.31	61.82	3.92	34.00
.....	.....	.....	11.00	9.75	.....	4.00	.....
18037	4.11	7.33	8.63	10.86	66.22	2.85	37.00
.....	.....	.....	9.00	.....	.....	2.00	.....
18031	5.64	6.30	11.00	10.73	63.64	2.69	43.00
.....	.....	.....	10.00	.....	.....	2.00	.....
15756	5.93	6.27	12.13	11.33	61.77	2.57	38.00
.....	.....	.....	10.00	.....	.....	2.50	.....
15763	5.16	7.36	9.25	16.80	58.99	2.44	42.00
.....	.....	.....	10.00	.....	.....	2.50	.....
18048	8.43	10.15	20.25	8.10	47.22	5.85	49.00
.....	.....	.....	18.00	.....	.....	5.00	.....
17963	8.14	5.99	23.13	7.60	48.46	6.68	58.00
.....	.....	.....	18.00	.....	.....	5.00	.....

TABLE III.—ANALYSES OF COMMERCIAL FEEDS,

Station No.	Manufacturer and Brand.	Retail Dealer.
	PROPRIETARY MIXED FEEDS—Continued. <i>Horse, Dairy and Stock Feeds—Continued.</i>	
18013	Nobotheration. C. W. Campbell Co., Westerly, R. I.	<i>Mystic</i> : J. L. Manning Co. Guaranty
15760	Unicorn Dairy Ration. Chapin & Co., Hammond, Ind.	<i>Hazardville</i> : A. D. Bridge's Sons Guaranty
15748	Eshelman's 25 Dairy Ration. John W. Eshelman & Son, Lancaster, Pa.	<i>West Cheshire</i> : G. W. Thorpe. Guaranty
15727	Grandin's Twin-Six Dairy Feed. D. H. Grandin, Milling Co., Jamestown, N. J.	<i>Willimantic</i> : Willimantic Grain Co. Guaranty
17996	Read The Tag Dairy Feed. H-O Cereal Co., Inc., Buffalo, N. Y.	<i>Plantsville</i> : C. A. Cowles. Guaranty
17962	Larro Dairy Feed. Larowe Milling Co., Detroit, Mich.	<i>Rockville</i> : Rockville Grain & Coal Co. Guaranty
18058	Red Star Dairy Feed. E. Manchester & Sons, Winsted.	<i>Winsted</i> : E. Manchester & Sons Guaranty
17990	Barford's Balanced Ration. Meech & Stoddard, Inc., Middletown.	<i>Meriden</i> : Meriden Grain & Coal Co. Guaranty
18070	Experimental Dairy Ration. Meech & Stoddard, Inc., Middletown.	<i>Middletown</i> : Meech & Stoddard, Inc. Guaranty
18036	Stevens 44 Dairy Ration. Park & Pollard Co., Boston, Mass.	<i>Waterbury</i> : Spencer Grain Co. Guaranty
17965	Pillsbury's Dairy Ration. Pillsbury Flour Mills Co., Minneapolis, Minn.	<i>North Haven</i> : W. L. Thorpe. . Guaranty
17979	Protena Dairy Feed. Purina Mills Co., Ralston	<i>Norwalk</i> : C. E. Slauson Co. Guaranty
18039	Purina Cow Chow. Purina Mills, St. Louis. . . .	<i>New Haven</i> : Crittenden-Benham Co. Guaranty
15719	Big Q Dairy Ration. Quaker Oats Co., Chicago, Ill.	<i>Stafford Springs</i> : Dennis Grain Mill Guaranty
18023	Vitality Milk Ration. Rosenbaum Bros., Chicago, Ill.	<i>Jewett City</i> : Jewett City Grain Co. Guaranty
15730	Syracuse Dairy Feed. Syracuse Milling Co., Syracuse, N. Y.	<i>Willimantic</i> : Boston Grain Co. Guaranty
15749	Red Brand Ti-O-Ga Dairy Feed. Tioga Mill and Elev. Co., Waverly, N. Y.	<i>West Cheshire</i> : G. W. Thorpe. Guaranty

INSPECTION OF 1921—Continued.

Station No.	Pounds per Hundred.						Price per ton.
	Water.	Ash.	Protein (N. x 6.25).	Fiber.	Nitrogen-free Extract (Starch, gum, etc.).	Ether Extract (Crude Fat).	
18013	8.25	4.04	20.44	6.10	56.36	4.81	\$37.00
.....	.....	.....	20.00	9.00	.....	4.00	.....
15760	6.72	8.02	25.25	8.23	45.76	6.02	47.00
.....	.....	.....	24.00	.....	.....	4.50	.....
15748	7.22	4.82	27.75	9.46	45.52	5.23	41.00
.....	.....	.....	25.00	.....	.....	5.00	.....
15727	7.04	5.57	24.44	9.01	48.10	5.84	41.00
.....	.....	.....	22.00	12.00	.....	5.00	.....
17996	5.98	5.27	23.63	7.26	52.62	5.24	40.00
.....	.....	.....	20.00	9.50	.....	5.00	.....
17962	8.42	4.88	21.50	11.72	49.05	4.43	45.00
.....	.....	.....	20.00	.....	.....	3.50	.....
18058	7.36	5.94	23.25	10.40	46.23	6.82	48.00
.....	.....	.....	23.00	.....	.....	4.00	.....
17990	7.35	5.17	20.06	8.84	51.83	6.75	44.00
.....	.....	.....	19.00	.....	.....	5.50	.....
18070	8.60	4.60	17.38	8.09	56.36	4.97	.....
.....
18036	7.16	7.25	23.38	13.63	42.45	6.13	44.00
.....	.....	.....	24.00	.....	.....	5.00	.....
17965	8.03	7.27	19.75	9.75	50.21	4.99	45.00
.....	.....	.....	19.00	.....	.....	4.00	.....
17979	4.86	7.56	19.56	9.51	53.86	4.65	35.00
.....	.....	.....	16.50	.....	.....	3.50	.....
18039	3.28	7.11	26.56	11.47	46.33	5.25	51.00
.....	.....	.....	24.00	.....	.....	4.30	.....
15719	7.47	5.59	20.56	10.33	49.69	6.36	48.00
.....	.....	.....	21.00	.....	.....	4.50	.....
18023	7.02	7.15	22.94	9.44	48.53	4.92	48.00
.....	.....	.....	25.00	.....	.....	4.50	.....
15730	6.84	6.21	25.50	9.14	44.23	8.08	43.00
.....	.....	.....	24.00	.....	.....	4.50	.....
15749	7.12	6.50	27.88	10.38	42.36	5.76	42.00
.....	.....	.....	23.00	11.00	.....	3.50	.....

TABLE III.—ANALYSES OF COMMERCIAL FEEDS,

Station No.	Manufacturer and Brand.	Retail Dealer.
	<i>PROPRIETARY MIXED FEEDS—Concluded. Horse, Dairy and Stock Feeds—Concluded.</i>	
18018	Biles Ready Dairy Ration. Ubiko Milling Co., Cincinnati, Ohio.....	<i>Yantic:</i> Yantic Grain & Products Co..... Guaranty.....
15725	Hi-Lo Dairy Ration. U. S. Food Products Co., Peoria, Ill.....	<i>Willimantic:</i> Willimantic Grain Co..... Guaranty.....
18044	Tes-Ted Dairy Feed. U. S. Food Products Co., Peoria, Ill.....	<i>New Haven:</i> R. G. Davis & Sons..... Guaranty.....
18009	Iroquois Stock Feed. Armour Grain Co., Chicago, Ill.....	<i>New London:</i> P. Swartz Co... Guaranty.....
18012	Pennant Brand Stock Feed. E. W. Bailey & Co., Swanton, Vt.....	<i>Mystic:</i> Mystic Grain Co.... Guaranty.....
18026	Nobotheration Stock Feed. C. W. Campbell Co., Westerly, R. I.....	<i>Westerly:</i> C. W. Campbell Co. Guaranty.....
18047	Delaware. Delaware Mills, Deposit, N. Y....	<i>Brookfield:</i> C. R. Dubia..... Guaranty.....
18014	New England Stock Feed. H-O Co.'s Mills, Buffalo, N. Y.....	<i>Mystic:</i> J. L. Manning Co.... Guaranty.....
18015	Homestead Stock Feed. Illinois Feed & Elevator Co., Bloomington, Ill.....	<i>Yantic:</i> Yantic Grain & Products Co..... Guaranty.....
18052	Bull Brand Stock Feed. Maritime Milling Co., Buffalo, N. Y.....	<i>New Milford:</i> Geo. E. Ackley Co..... Guaranty.....
18051	M. & S. Stock Feed. Meech & Stoddard, Inc., Middletown.....	<i>New Milford:</i> Geo. E. Ackley Co..... Guaranty.....
18035	Stock Feed. Park & Pollard Co., Boston, Mass.	<i>Waterbury:</i> Spencer Grain Co. Guaranty.....
18968	Iowa Stock Feed. Purity Oats Co., Davenport, Iowa.....	<i>North Haven:</i> W. L. Thorpe.. Guaranty.....
15746	Schumacher Sugured Feed. Quaker Oats Co., Chicago, Ill.....	<i>Hamden:</i> I. W. Beers..... Guaranty.....
15764	White Diamond Stock Feed. Quaker Oats Co., Chicago, Ill.....	<i>Manchester:</i> Little & McKinney..... Guaranty.....
15731	Charlestock Feed. St. Albans Grain Co., St. Albans, Vt.....	<i>Willimantic:</i> Boston Grain Co..... Guaranty.....
15723	Wirthmore Stock Feed. St. Albans Grain Co., St. Albans, Vt.....	<i>South Coventry:</i> South Coventry Grain Elev..... Guaranty.....
17975	Syracold Stock Feed. Syracuse Milling Co., Syracuse, N. Y.....	<i>Southport:</i> C. Buckingham & Co..... Guaranty.....

INSPECTION OF 1921—Continued.

Station No.	Pounds per Hundred.						Price per ton.
	Water.	Ash.	Protein (N. x 6.25)	Fiber.	Nitrogen-free Extract (Starch, gum, etc.).	Ether Extract (Crude Fat).	
18018	7.30	7.82	23.06	8.91	44.76	8.15	\$47.00
.....	.....	.....	24.00	10.00	50.00	5.00	.....
15725	6.89	6.51	23.94	8.63	49.16	4.87	39.00
.....	.....	.....	22.00	9.00	.....	4.00	.....
18044	8.04	7.71	26.13	8.97	44.18	4.97	43.00
.....	.....	.....	24.00	9.00	.....	5.00	.....
18009	7.46	5.51	11.38	12.51	57.07	6.07	28.50
.....	.....	.....	10.00	.....	.....	4.00	.....
18012	7.04	4.03	9.13	10.62	63.00	6.18	32.00
.....	.....	.....	9.00	10.00	.....	5.00	.....
18026	9.06	4.24	11.00	11.63	60.16	3.91	31.00
.....	.....	.....	10.00	12.00	.....	5.00	.....
18047	9.74	4.46	8.63	8.52	65.56	3.09	36.00
.....	.....	.....	10.00	.....	.....	4.00	.....
18014	7.33	4.71	9.44	11.40	62.82	4.30	36.00
.....	.....	.....	9.50	.....	.....	4.00	.....
18015	8.78	2.58	8.75	8.20	68.44	3.25	34.00
.....	.....	.....	9.00	.....	.....	3.00	.....
18052	8.12	3.76	11.56	11.12	61.26	4.18	33.00
.....	.....	.....	11.00	.....	.....	4.00	.....
18051	8.47	3.51	9.63	9.27	64.69	4.43	33.00
.....	.....	.....	9.00	.....	.....	3.00	.....
18035	8.67	5.02	8.38	9.74	65.11	3.08	32.00
.....	.....	.....	9.00	.....	.....	2.50	.....
17968	7.61	4.26	9.69	12.11	62.34	3.99	34.00
.....	.....	.....	10.00	12.75	.....	4.00	.....
15746	6.92	4.98	11.38	11.95	60.59	4.18	34.00
.....	.....	.....	10.00	.....	.....	3.25	.....
15764	6.95	3.77	8.56	11.16	66.06	3.50	32.00
.....	.....	.....	8.00	14.00	60.00	3.00	.....
15731	6.76	3.56	10.00	9.71	64.79	5.18	31.00
.....	.....	.....	10.00	14.00	50.00	4.00	.....
15723	8.12	2.48	9.31	5.90	69.30	4.89	32.00
.....	.....	.....	9.00	.....	.....	4.00	.....
17975	8.06	4.96	11.00	11.68	59.71	4.59	32.00
.....	.....	.....	9.00	.....	.....	3.00	.....

TABLE III.—ANALYSES OF COMMERCIAL FEEDS,

Station No.	Manufacturer and Brand.	Retail Dealer.
POULTRY FEEDS		
17984	Cak-Cak Laying Mash. Armour Grain Co., Chicago, Ill.	<i>Stamford:</i> W. L. Crabb..... Guaranty.....
17985	Iroquois Poultry Mash. Armour Grain Co., Chicago, Ill.	<i>Stamford:</i> W. L. Crabb..... Guaranty.....
17977	Blatchford's Fill the Basket Egg Mash. Blatchford's Calf Meal Co., Wauregan, Ill.	<i>Norwalk:</i> C. E. Slauson Co... Guaranty.....
18029	Nobotheration Dry Mash. C. W. Campbell Co., Westerly, R. I.	<i>Westerly:</i> C. W. Campbell Co. Guaranty.....
18034	Eshelman's Laying Mash. John W. Eshelman & Son, Lancaster, Pa.	<i>Plainville:</i> F. B. Newtown Est. Guaranty.....
15761	Red Comb Egg Mash. Hales & Hunter Co., Chicago, Ill.	<i>Manchester:</i> Little & McKinney Guaranty.....
18032	Laying Mash. H-O Cereal Co., Inc., Buffalo, N. Y.	<i>Bristol:</i> Goodsell Bros..... Guaranty.....
18064	Blue Top Laying Mash. Chas. A. Krause Milling Co., Milwaukee, Wis.	<i>Hartford:</i> Garber-Northam Grain Co..... Guaranty.....
17997	M. & S. Dry Mash. Meech & Stoddard, Inc., Middletown.	<i>Middlefield:</i> Middlefield Grain & Coal Co..... Guaranty.....
18063	M. & S. Dry Mash. Meech & Stoddard, Inc., Middletown.	<i>Hartford:</i> Meech Grain Co... Guaranty.....
17981	Lay or Bust. Park & Pollard Co., Boston, Mass.	<i>Norwalk:</i> C. E. Slauson Co... Guaranty.....
17993	Purina Chicken Chowder. Purina Mills, St. Louis.	<i>Meriden:</i> August Grulick Est. Guaranty.....
15718	Ful-O-Pep Dry Mash. Quaker Oats Co., Chicago, Ill.	<i>Stafford Springs:</i> Dennis Grain Mill Guaranty.....
18008	Chic-Chuck Concentrated Poultry Food. Russia Cement Co., Gloucester, Mass.	<i>New London:</i> P. Swartz Co... Guaranty.....
15735	Wirthmore Buttermilk Mash Feed. C. M. Cox Co., Boston, Mass.	<i>East Haven:</i> F. A. Forbes... Guaranty.....
15736	Dried Buttermilk. Buttermilk Sales Co., Chicago, Ill.	<i>East Haven:</i> F. A. Forbes...

MISCELLANEOUS SAMPLES.

Partial or complete analyses of feeding stuffs submitted by individuals during the past year are given in Table IV. This station is not responsible for the sampling of these materials but only for the accuracy of the analyses of the samples as received by us. We are justified in making such examinations only insofar

INSPECTION OF 1921—*Concluded.*

Station No.	Pounds per Hundred.						Price per ton.
	Water.	Ash.	Protein (N. x 6.25).	Fiber.	Nitrogen-free Extract (Starch, gum, etc.).	Ether Extract (Crude Fat).	
17984	7.07	7.15	21.75	8.01	50.18	5.84	\$54.00
.....	.....	.....	20.00	.....	.....	3.00	.....
17985	8.07	4.42	16.69	20.22	43.58	7.02	51.00
.....	.....	.....	15.00	.....	.....	4.00	.....
17977	6.10	14.35	20.63	8.67	45.19	5.06	75.00
.....	.....	.....	19.00	.....	.....	4.00	.....
18029	8.81	10.41	18.88	7.54	48.43	5.93	47.00
.....	.....	.....	18.00	.....	.....	2.00	.....
18034	8.59	8.10	23.50	5.70	47.08	7.03	53.00
.....	.....	.....	20.00	.....	.....	5.00	.....
15761	7.07	8.83	16.13	5.00	57.31	5.66	63.00
.....	.....	.....	16.00	.....	.....	4.50	.....
18032	7.45	4.86	17.56	4.50	60.10	5.53	47.00
.....	.....	.....	17.00	6.00	.....	4.50	.....
18064	8.28	7.09	20.38	7.03	51.98	5.24	60.00
.....	.....	.....	20.00	.....	.....	5.00	.....
17997	7.77	7.72	18.13	6.81	54.64	4.93	56.00
.....	.....	.....	12.00	8.00	.....	3.00	.....
18063	7.47	8.01	19.31	6.87	53.38	4.96	58.00
.....	.....	.....	12.00	.....	.....	3.00	.....
17981	6.60	9.58	20.56	5.79	52.92	4.55	53.00
.....	.....	.....	18.00	.....	.....	1.50	.....
17993	7.56	7.27	19.75	8.58	51.42	5.42	60.00
.....	.....	.....	19.00	.....	.....	4.00	.....
15718	8.09	9.67	21.75	7.54	47.32	5.63	68.00
.....	.....	.....	20.00	.....	.....	4.00	.....
18008	6.31	48.39	39.25	1.17	3.26	1.62	72.00
.....	.....	.....	45.00	.....	.....	2.00	.....
15735	7.33	6.05	19.75	6.15	56.12	4.60	52.00
.....	.....	.....	20.00	.....	.....	4.00	.....
15736	8.01	10.71	33.00	.....	38.86	9.42	165.00

as they may be of public interest and concern and to this end as complete information as may be given should accompany samples thus submitted; that is to say, brand, name, manufacturer and guaranty should be stated if known. Most of the samples thus examined were for the purpose of checking guaranties or for information to be used in the compounding of rations.

TABLE IV.—ANALYSES OF FEEDING STUFFS,

Station No.	Material.	Submitted by
HAY, ENSILAGE, ETC.		
16576	Hay	<i>Orange:</i> Fairlea Farm
18589	Silage	Fairlea Farm
16574	Silage	Fairlea Farm
18573	Alfalfa	Fairlea Farm
16575	Alfalfa	Fairlea Farm
16572	Alfalfa Meal	Fairlea Farm
WHEAT PRODUCTS.		
18250	Wheat Feed	<i>Middletown:</i> Meech & Stoddard, Inc.
18251	Red Dog	Meech & Stoddard, Inc.
CORN PRODUCTS.		
17003	Farmer Jones Gluten Feed	<i>Newtown:</i> E. S. Lovell
16467	Stowell's Evergreen Sweet Corn Seed	<i>Middletown:</i> F. C. Hubbard ..
COTTONSEED PRODUCTS.		
18668	Cottonseed Feed	<i>Wallingford:</i> W. S. Fushey ...
OAT PRODUCTS.		
18477	Ground Oats	<i>Rockville:</i> H. B. Pomeroy ...
18478	Ground Oats	H. B. Pomeroy
16606	Ground Oats	<i>Colchester:</i> L. Broder
BEET PULP.		
16573	Beet Pulp	<i>Orange:</i> Fairlea Farm
17408	Beet Pulp	<i>Suffield:</i> Hill Top Farm
DISTILLERS' GRAINS.		
17820	Distillers' Grains	<i>Bridgeport:</i> C. L. Bill
16653	Distillers' Grains	<i>Fairfield:</i> R. H. Holcomb
STOCK FEED, POULTRY FEEDS, ETC.		
17787	Delaware Dairy Feed	<i>Brookfield:</i> C. R. Dubia
18562	Dairy Ration	<i>Farmington:</i> Winchell Smith's Grist Mill
16969	Mule and Horse Feed	<i>Hartford:</i> American Sumatra Tobacco Co.
16970	Mule and Horse Feed	American Sumatra Tobacco Co.
16728	Horse Feed	American Sumatra Tobacco Co.
16727	Horse Feed	American Sumatra Tobacco Co.
16980	Arrow Head Mule Feed	American Sumatra Tobacco Co.
18475	Badger Stock Feed	Garber-Northam Grain Co.
18476	Badger Stock Feed	Garber Northam Grain Co.

SUBMITTED BY INDIVIDUALS.

Station No.	Pounds per Hundred.						Remarks.
	Water.	Ash.	Protein (N x 6.25).	Fiber.	Nitrogen-free Extract (Starch, gum, etc.).	Ether Extract (Crude Fat).	
16576	15.35	5.16	8.90	13.31	53.53	3.75	
18589	66.05	1.68	2.25	9.98	19.26	0.78	
16574	82.14	1.12	1.72	5.72	8.85	0.45	
18573	8.95	5.71	12.64	36.64	34.29	1.77	
16575	14.85	10.21	21.66	31.94	19.76	1.58	
16572	7.66	7.92	12.75	33.45	36.50	1.72	
18250	7.04	.....	17.25	7.51	.....	7.00	Guaranty, Protein 13, Fiber 12, Fat 3.
18251	7.67	.....	17.50	1.77	.....	4.31	Guaranty, Protein 15, Fiber 10, Fat 4.
17003	.....	.....	25.75	.....	.....	.....	Guaranty, Protein 23.
16467	15.22	.....	.....	.....	.....	.....
18668	.....	.....	35.94	.....	.....	.....
18477	.....	.....	13.00	.....	.....	.....
18478	.....	.....	12.75	.....	.....	.....
16606	.....	.....	12.38	.....	.....	.....
16573	8.34	3.58	9.38	18.11	59.57	1.02	
17408	.....	4.26	9.50	.....	.....	.....	Ash insol. in acid 0.83.
17820	91.6	.....	1.60	.....	.....	.....
16653	78.04	0.99	4.22	1.46	13.96	1.33	
17787	.....	.....	24.13	.....	.....	.....
18562	7.68	.....	22.50	.....	.....	5.49	
16969	.....	.....	12.38	.....	.....	.....
16970	.....	.....	11.31	.....	.....	.....
16728	.....	.....	10.63	.....	.....	.....
16727	.....	.....	10.50	.....	.....	.....
16980	.....	.....	9.73	.....	.....	.....
18475	.....	.....	8.75	.....	.....	.....
18476	.....	.....	8.69	.....	.....	.....

TABLE IV.—ANALYSES OF FEEDING STUFFS

Station No.	Material.	Submitted by
	STOCK FEED, POULTRY FEEDS, ETC.— <i>Concluded</i>	
17625	Stock Feed.....	<i>Middletown:</i> State Hospital for Insane.....
17626	Stock Feed.....	State Hospital for Insane..
18523	Stock Feed.....	State Hospital for Insane..
18524	Special Dairy Feed.....	The Coles Co.....
17406	Four All Stock Feed.....	<i>Milwaukee: Wis.,</i> Smith Milling Co.....
17405	Smith's Balanced Ration.....	Smith Milling Co.....
17407	Vitex Dairy Ration.....	Smith Milling Co.....
17894	Hog Feed.....	<i>New Milford:</i> W. B. Hatch...
18637	Meat Scrap.....	Herman F. Engleman.....
18647	Dried Buttermilk.....	<i>Norwich:</i> H. Ojyerman.....
16571	Dairy Ration.....	<i>Orange:</i> Fairlea Farm.....
16570	Stock Feed.....	Fairlea Farm.....
18568	Stock Feed.....	Fairlea Farm.....
18567	Dairy Ration.....	Fairlea Farm.....
17907	Crosby's Ready Ration.....	<i>Shelton:</i> J. H. Loverin.....
18141	Chick Feed.....	<i>West Hartford:</i> G. L. Ellsworth.....
18179	Beef Scrap.....	<i>Yantic:</i> Yantic Grain Co.....
	MISCELLANEOUS.	
18252	Stock Molasses.....	<i>West Cornwall:</i> S. R. Scoville.
17641	Feed Molasses.....	<i>Lakeville:</i> H. F. Hamlin.....
17642	Feed Molasses.....	H. F. Hamlin.....
17643	Feed Molasses.....	H. F. Hamlin.....
17657	Corn Juice from Silo.....	<i>Hartford:</i> Thos. Holt.....
17867	Silo Liquid.....	<i>Guilford:</i> Wilcox Bros.....
18235	Low Grade Flour.....	<i>Storrs:</i> Conn. Agr. College..
18711	Bean Meal.....	<i>Middletown:</i> John H. Fay....
16719	Feed.....	<i>Cromwell:</i> A. N. Pierson.....
16368	Nears Mixture Stock Food.....	<i>Kent:</i> F. B. Segar.....
16369	Gold Medal Stock Food.....	F. B. Segar.....
16370	Carpenter Stock Food.....	F. B. Segar.....
16526	Gold Medal Stock Food.....	<i>Washington:</i> Dodge Farm

SUBMITTED BY INDIVIDUALS—*Concluded.*

Station No.	Pounds per Hundred.						Remarks.
	Water.	Ash.	Protein (Nx6.25).	Fiber.	Nitrogen-free Extract (Starch, gum, etc.).	Ether Extract (Crude Fat).	
17625	10.76	.....	15.25	.....	.....	4.80	
17626	10.76	.....	15.25	.....	.....	4.88	
18523	6.57	5.89	22.75	9.43	47.78	7.58	
18524	.....	.....	22.81	.....	.....	.....
17406	10.04	.....	15.13	12.01	.....	4.30	Guaranty, Protein 12, Fiber 12, Fat 4.
17405	10.29	.....	18.25	10.39	.....	5.09	
17407	9.73	.....	27.13	12.56	.....	6.17	
17894	.....	.....	55.88	.....	.....	.....	Guaranty, Protein 55-65.
18637	5.30	22.41	39.95	.....	.....	.....
18647	8.02	10.70	34.89	.....	36.59	9.80	Guar., Moisture 6, Ash 8.7 Protein 36.1, Fat 7.2.
16571	8.54	6.58	21.25	10.33	47.48	5.82	
16570	9.05	4.01	14.50	7.28	59.31	5.85	
18568	6.85	5.24	19.38	8.28	54.87	5.38	
18567	7.31	5.18	19.63	8.09	54.41	5.38	
17907	.....	.....	26.88	.....	.....	.....
18141	.....	.....	17.06	.....	.....	.....
18179	.....	.....	45.13	.....	.....	.....	Guaranty, Protein 45.
18252	19.41	9.02	4.19	.....	58.58	.....	Sugar, calc. as invert, 58.58
17641	18.37	.....	2.74	.....	62.72	.....	" " " " 62.72
17642	24.62	.....	4.13	.....	58.93	.....	" " " " 58.93
17643	24.69	.....	4.25	.....	55.94	.....	" " " " 55.94
17657	92.40	1.37	1.31	.....	0.72	.....	" " " " 0.72; alcohol 1.10.
17867	.....	.....	.....	.....	.....	.....	Alcohol 1.22.
18235	.....	.....	15.75	.....	.....	.....
17811	.....	.....	4.88	.....	.....	.....	Probably carob bean and pod meal.
16719	.....	.....	12.25	.....	.....	.....
16368	.....	.....	.....	.....	.....	.....	1
16369	.....	.....	.....	.....	.....	.....	2
16370	.....	.....	.....	.....	.....	.....	3
16526	.....	17.23	16.25	.....	.....	.....	4

¹ Contains charcoal, sulphur, salt, carbonates, Epsom salt, vegetable bitters; probably also fenugreek.

² Substantially same as 16368.

³ Contains charcoal, sulphur, salt; probably also flaxseed meal and fenugreek.

⁴ Substantially same as 16368.