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New Hampshire Agricultural Experiment Station

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Bulletin 149

October, 1910

NEW HAMPSHIRE AGRICULTURAL EXPERIMENT STATION DEPARTMENT OF CHEMISTRY

Results of the Feed Inspection

For 1910

MADE FOR THE STATE BOARD OF AGRICULTURE

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

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

NEW HAMPSHIRE COLLEGE OF AGRICULTURE AND THE MECHANIC ARTS.

NEW HAMPSHIRE AGRICULTURAL EXPERIMENT STATION

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The bulletins of the Experiment Station are published at irregular intervals, and are sent *free* to all residents of New Hampshire requesting them.

The Inspection of Feeding-Stuffs.

Each year, as has been pointed out heretofore in these reports, the inspection of commercial feeding-stuffs is becoming more important. There has been a steady increase for a number of years in the number of brands of feeds inspected by the State Board of Agriculture. This year there were 135 brands of feed offered for sale in New Hampshire from which official inspection samples were taken.

It has been pointed out before in these columns that our present feed laws are not adequate to meet the present needs of both the producer or jobber and the consumer. The inadequacy of our present laws are intensified at present by the fact that the laws in all of the neighboring states are more rigid and effec-For instance, when a carload of cotton-seed meal goes tive. into the State of Maine, no part of it can be offered for sale until it has been properly inspected. It is not, therefore, an easy proposition to sell 37 per cent. cotton-seed meal for 41 per cent. in the State of Maine. In New Hampshire the present methods of inspection do not enable the consumer to know about his feed until several months after it has been paid for and when rebates are not to be obtained. The consumers of commercial feedstuffs should rise up and demand better laws and a strict enforcement of the same. Feed jobbers evidently are thoroughly conversant with the New Hampshire methods of inspection. This is shown by comparing the last report of the New Jersey station with the results herein reported. New Jersey reports 340 brands of feeds, 8.5 per cent. of which had deficiencies in protein or fats. In New Hampshire 32 per cent. of the brands were deficient in protein alone. About 28 per cent. were deficient in fat. Seventeen samples were deficient in both fat and protein. Whether this represents carelessness on the part of the sellers or whether New Hampshire is to become or has become the dumping-ground for inferior feed-stuffs remains to be seen. At any rate it is perfectly logical to expect to find inferior products offered for sale unless some changes are made in the present methods. It is very doubtful if alone the publicity given to poor articles will longer answer the public needs.

Twelve brands of cotton-seed meal have been sampled and analyzed. Fifty per cent. of these did not satisfy the guarantee with respect to protein. In one case the deficiency amounted to 18 per cent., while in two others the deficiencies were a little more than 13 per cent. These represent pretty fair margins for profit and loss. On the other hand, one sample showed a protein content of more than 7 per cent. greater than the guarantee. Two dollars per ton represented the difference in the selling price of the poorest and best meals. This is a matter which both the consumer and seller might well think about. It is obvious that something should be done that would give the consumer an opportunity to know what he buys. A revision of the present law together with some changes in the analytical facilities would meet these needs. The dealer in high grade feeding stuffs should be as insistent as the consumer for these changes. The results would be his best advertisements.

The growth of the poultry business has been accompanied by a great flood of poultry feeds. These are compounded from many grains and seeds, charcoal, meal scraps, bone shells, etc. Without discussing the merits of the different brands of these feeds a few general remarks may be in order. Some of these feeds are made from a good quality of grains. Others are a mixture of screenings and inferior grains. A careful inspection of these mixtures will usually enable one to determine something about the quality. Usually the price is sufficient to cover the cost of a high grade article. The prices of the best mixtures are little different from the prices of the inferior mixtures.

The beef scraps and animal meals while numerous, do not call for any particular comment. Because of the general nature of the materials which go into these, the composition is necessarily more or less variable. In general all of these meal mixtures are by-products of packing house industries and have become important as poultry feeds. Because of the general composition of these products, proper sampling is difficult at best and small deviations from the guarantee are not particularly significant.

Among the feeds one sample of alfalfa meal has been reported.

The price at which his feed was offered for sale together with its composition furnishes data for the feeder to think about. The average composition of good dry clover hay is 12 per cent. protein and 3 per cent. fat. It is very obvious from these data that clover hay is not properly appreciated by our feeders.

In the preparation of this report analytical assistance has been rendered by Messrs. C. H. and J. E. Robinson. The results of the inspection appear in the following table:

| | Cost per 100 lba. | 1.60 | 1.70 1.60 1.65 1.65 | 1.95 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 | 1.50 1.70 1.75 1.45 |
|----------|----------------------|------------------------------|---|--|--|
| | Found. | 1.90 | 10.33 7.85 6.60 7.50 7.50 | 6.00 | $ \begin{array}{c} 9.98\\ 6.60\\ 9.98\\ 5.80 \end{array} $ |
| Fat. | Guaran- teed. | .5-1.00 | $\begin{array}{c} 7.5-9.00\\ 7.5-9.00\\ 8.00\\ 78.00\\ 78.00\end{array}$ | $\begin{array}{c} 7, -9, 00\\ 6, 6, -8, 00\\ 7, -9, 00\\ 7, -9, 00\\ 7, -9, 00\\ 7, -9, 00\\ 7, -9, 00\\ 8, 00\\ 8, 00\\ 8, 17, 30\\ 17, 37\\ 7, 00\\ 8, 17, 37\\ 7, 10\\ 7, $ | 810.00 812.00 812.00 |
| 'n. | Found. | 14.92 | $\begin{array}{c} 11.41\\9.92\\10.89\\10.18\\11.17\\11.17\\10.79\end{array}$ | $\begin{array}{c} 35\\ 35\\ 35\\ 35\\ 35\\ 35\\ 35\\ 35\\ 35\\ 35\\$ | 27.80 26.06 24.44 30.58 25.37 |
| Protein. | Guaran- teed. | 914.00 | $\begin{array}{c} 9.5^{-12}.00\\1012.00\\12.00\\10.00\\10.00\\1011.00\\1011.00\end{array}$ | $\begin{array}{c} 38, -41.00\\ 38, -41.00\\ 41, -43.00\\ 38, 5-41.00\\ 38, 5-41.00\\ 38, -41.00\\ 36, -40.00\\ 36, -40.00\\ 36, -40.00\\ 36, -40.00\\ 36, -70.0$ | 2226.00 24.00 I 2730.00 |
| | Manufactured by. | M. E. Peters Co., Omaha, Neb | C. M. Cox Co., Boston, Mass Miner Hillard Co., Wilkes Barre, Pa. Mystie Milling Co., Sioux City, Ia E. Soper Co., Boston, Mass | Amer. Cotton Oil Co. F. M. Brode & Co., Memphis, Tenn. Buckeye Cotton Oil Co., Cineinnati, O. Exchange Cotton and Linesed Meal Co. S. P. Davis, Little Rock, Ark. Humphrey Godwin Co., Memphis, Tenn. Hunter Bros. Milling Co. C. Johnson & Co., Memphis, Tenn. J. Soper Co., Boston, Mass. Mann Bros., Buffalo, N. Y. C. R. Lursed Co., Cineago. Mann Bros., Buffalo, N. Y. C. R. Lue, Milwauke, Wis. J. Loring & Co., Watertown, Mass. | S. E. Faithful, Boston, Mass J. W. Biles Co., Cinetimati, O Hottelott & Co., Milwaukee, Wis. |
| | Brand. | Alfalfa Meal | HomIny Feed Withhore Hominy Meal Hominy Meal Hominy Peed Blue Ibiboo Hominy, Meal Standard Hominy Meal Hominy Feed. | Cotton-Seed Meal. Choice Cotton-Seed Meal. Choice Cotton-Seed Meal. Owl Brand Cotton-Seed Meal. Merkye Cotton-Seed Meal. Buckye Cotton-Seed Meal. Rose Brand Cotton-Seed Meal. Good Luck. Cotton-Seed Meal. Dixie Brand Cotton-Seed Meal. Dixie Brand Cotton-Seed Meal. Cotton-Seed Meal. Dixie Brand Cotton-Seed Meal. Dixie Brand Cotton-Seed Meal. Dixie Brand Cotton-Seed Meal. Dixie Brand Cotton-Seed Meal. Cotton-Seed Meal. Dixie Brand Cotton-Seed Meal. Dixie | Browers' and Distillers' Grains. Browers' Grains' Dearborn Distillers' Dried Grains Union Crains. Two EX (XX) Grains. Holatein. |

RESULTS OF THE FEED INSPECTION.

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[Bulletin 149

| Oct., 1910.] | INS | PECTION O | F FEEDING-STUFFS | 7 |
|---|--|--|--|--|
| $\begin{array}{c} 2.00\\ 1.75\\ 1.75\\ 1.75\\ 1.75\\ 5.67\end{array}$ | $1.35 \\ 1.40 \\ 1.45 \\ $ | $1.40 \\ 1.75 \\ 1.75 \\ 1.85 \\ 1.55 \\ $ | 1.75 1.75 1.65 1.65 1.65 1.75 1.75 1.75 1.75 1.75 | 1.75 2.25 1.56 1.65 2.25 1.65 2.25 |
| 4.45 3.80 2.40 4.50 4.50 4.50 4.00 | 5.40 2.05 3.700 3.300 3.300 3.300 3.300 3.300 3.300 5.40 | 5.45 7.60 1.17 2.18 | $\begin{array}{c} & 5.00 \\ & 5.00 \\ & 3.35 \\ & 5.35 \\ & 5.25 \\ & 7.25 \\ & 7.25 \\ & 5.2$ | 6.90 5.95 6.60 6.60 7.00 7.00 7.00 7.00 7.00 7.00 |
| 2.50 2.50 2.50 4.00 | 35. 00 35. 00 34. 00 46. 00 3. 50 | $\begin{array}{c} 3.50\\ 6.00\\ 45.00\\ 2.5-5.00\\ \end{array}$ | $\begin{array}{c} 12 & -14 & 00 \\ 9 & -12 & 00 \\ 9 & -12 & 00 \\ 4 & -5 & 00 \\ 3 & 5 -4 & 50 \\ 13 & 00 \\ 3 & 5 -7 & 00 \\ 5 & -7 & 00 \\ 5 & -7 & 00 \\ 2 & 5 0 -3 & 50 \end{array}$ | 4 % 4 % 4 % 000 % 100 % |
| $\begin{array}{c} 25.09 \\ 24.24 \\ 25.85 \\ 25.85 \\ 26.63 \\ 23.00 \\ 21.75 \end{array}$ | 16.50 14.36 15.68 14.45 18.74 17.76 16.17 | $11.78 \\ 17.60 \\ 10.53 \\ 12.42 \\ 7.50$ | $\begin{array}{c} 27 \\ 28.54 \\ 282.54 \\ 282.60 \\ 222.05 \\ 222.80 \\ 113.99 \\ 113.99 \\ 113.99 \\ 113.99 \\ 111.45 \end{array}$ | $10.27 \\ 8.03 \\ 8.60 \\ 7.41 \\ 7.41 \\ 8.93 \\ 11.75 \\ 9.61 \\ 10.09 \\ 10.09 \\ 10.09 \\ 10.09 \\ 10.09 \\ 10.09 \\ 10.09 \\ 10.09 \\ 10.00 \\ 10$ |
| 24 27.00 2427.00 2427.00 23.00 23.00 22.00 | 1618.00 1618.00 1618.00 1518.00 1500 1500 | $1012.00 \\ 1012.00 \\ 79.00$ | $\begin{array}{c} 313500\\ 2831.00\\ 2831.00\\ 2022.00\\ 16-18.00\\ 16-18.00\\ 1820.00\\ 1820.00\\ 1820.00\\ 1012.00\end{array}$ | $\begin{array}{c} 1012.00\\ 78.00\\ 89.00\\ 69.00\\ 612.00\\ 1512.00\\ 10.00\\ 10.00\end{array}$ |
| American Maize Product Co., New York. Colinton Sugar Refining Co Com Products Refining Co Douglas & Co., Cedar Rapids, Ia J. E. Soper & Co., Boston, Mass. | Amer. Milling Co | Northwest Mills Co. J. W. Bitas Co. J. W. Dices Co. H. O. Co., Buffalo. H. O. Co., Boston. | Ajax Milling Co., Buffalo. Clark Bros. & Co., Peoria, III. Greut Western Cereal Co., Chicago III usted Mill ng Co., Buffalo. II. O. Co., Buffalo. Chas. A. Krause Nilling Co., Molasses Feed Co., Milwaukee, M. Y. Molasses Feed Co., Milwaukee St. Albans Grain Co. Buffalo Cereal Co., Terre Haute, Ind. | A. II. Brown & Sons, Boston, Mass. Buffalo Cereal Company C. M. Cox, Boston, Mass. |
| Gluten Feede. Cream of Corn Gluten Feed Cinton Feed. Buffalo Gluten Feed. Creacent Gluten Feed. Colabe Gluten Feed. Colar Rapids Gluten Feed. Say State Gluten Feed. | Molasses Feed. Sucreue Duiry Feed. Sucreue Dairy Feed. Molac Dairy Feed. Holstein Sugar Feed. Uusted Molasses Feed. Quaker Dairy Molasses Feed. | Horse Feeds. Sugaroto Horse Feeds. Viko Horse Feeds. All Grain Horse Feed. Pearl, Horse and Cow Feed. | Dalry Feeds. Unicorn Darry Ration. Unicorn Darry Ration. Empire State Dury Feed Husted Dairy Feed All Grain Milk Feed Badger Dairy Feed. Empire State Dairy Feed. Prize Dairy Feed. Prize Dairy Feed. Prize Dairy Feed. Prize Dairy Feed. Prize Dairy Feed. Creamery Teed. | Stock and Miscellaneous Feeds. Queen Stock Feed Chop Feed Stock Feed Wirthmore Stock Feed Wirthmore Growing Feed Oolonial Developing Feed Boss Chop Feed Sterling Stock Food |

| | | Protein. | | Fat. | | too |
|---|---|--|---|---|--|---|
| Brand. | Manufactured by. | Guaran- teed. | Found. | Guaran- teed. | Found. | Cost per 100 lbs. |
| Stock and Miscellaneous Feeds. Extra Good Stock Feed. Extra Good Stock Feed. Haskell's Stock Feed. Stock Husted Feed. Stock Husted Feed. Imperial Regal Stock Feed. New Erg Stock Feed. Puring Mill Feed. Schumacher Stock Feed. Stort's Winner Chop Feed. Stort's Winner Chop Feed. Stort's Winner Chop Feed. Toledo Stock Feed. | Griswold & Macffinan, St. Johnsbury, Vt. W. H. Haskell, Toledo, Ohio. Hutsted Milling Co., Toledo Intred Milling Co., Toledo Roves & Colby, Boston, Mass. Noves & Colby, Boston, Mass. Park & Pollard Co., Boston, Mass. Park & Pollard Co., Boston, Mass. St. Albana Grain Co., Toledo, O. Bavid Stott, Detroit, Mich. | $\begin{array}{c} & 7.63\\ & 7.63\\ & 810.00\\ & 8.200\\ & 8.200\\ & 8.200\\ & 8.200\\ & 8.200\\ & 10.00\\ & 1415.00\\ & 1415.00\\ & 1415.00\\ & 1412.00\\ & 912.00\\ & 912.00\\ & 912.00\\ \end{array}$ | 8.25 8.25 111.111 111.111 111.111 111.111 111.111 111.111 111.111 111.111 111.111 111.111 111.111 111.111 111.111 111.111 111.111 111.111 111.111 111.111 111.11111 111.111111 | $\begin{array}{c} \begin{array}{c} & 4 \\ $ | 355.00 | $\begin{array}{c} 1.65\\ 1.7$ |
| Beef Scraps and Poultry Feeds. Beef Scraps. Beef Scraps. Beef Scraps. Breek's Ground Bore Neal Breek's Ground Bore Neal Breek's Animal Meal Ground Scraps. Beef Scraps. Beef Scraps. Beef Scraps. Beef Scraps. Brift's Beef Scraps. Brift's Beef Scraps. Beef Scraps. | Amer. Agr. Chemical Co. Beech Soap Co., Lawrence, Mass. Jos. Breck & Sons. Poston, Mass. Jos. Breck & Sons. Poston, Mass. Bowker's Fert. Co., Boston, Mass. C. S. Page, Hyto Park, Vt. Mass. John C. Dow Co., Boston, Mass. Fiscer Fert. Co., Boston, Mass. W. D. Hirgins, So. Framingham, Mass. W. D. Hirgins, So. Framingham, Mass. Hinokley Rendering Co., Sonorville, Mass. Larrows Milling Co., Letrolt, Mich. Mannester Rendering Co. Nathan Tufits & Son., Boston, Mass. Park & Pollard Co., Boston, Mass. Portland Rendering Co. | $\begin{array}{c} 40, -60, 00\\ 41, -60, 00\\ 43, -50, 00\\ 45, -50, 00\\ 45, -50, 00\\ 35, -50, 00\\ 35, -50, 00\\ 35, -50, 00\\ 40, -50, 00$ | $\begin{array}{c} 556\\ 356\\ 356\\ 556\\ 356\\ 556\\ 328\\ 555\\ 328\\ 555\\ 328\\ 555\\ 328\\ 555\\ 328\\ 555\\ 328\\ 555\\ 328\\ 555\\ 328\\ 555\\ 328\\ 555\\ 328\\ 555\\ 328\\ 555\\ 328\\ 555\\ 328\\ 555\\ 328\\ 555\\ 328\\ 552\\ 328\\ 552\\ 328\\ 552\\ 552\\ 328\\ 552\\ 552\\ 552\\ 552\\ 552\\ 552\\ 552\\ 5$ | $\begin{array}{c} 5, -6, 00\\ 20, 00\\ 12, -15, 00\\ 12, -15, 00\\ 6, -12, 00\\ 6, -12, 00\\ 6, -12, 00\\ 6, -12, 00\\ 6, -12, 00\\ 8, -12, 00\\ 8, -12, 00\\ 8, -12, 00\\ 8, -12, 00\\ 8, -12, 00\\ 8, -12, 00\\ 6, -12, 00\\ 8, -12, 00\\ 6,$ | $\begin{array}{c} 15.89\\ 20.00\\ 11.96\\ 15.65\\ 15.65\\ 15.05\\ 15.05\\ 11.10\\ 12.10\\ 11.10\\ 12$ | 22222222222222222222222222222222222222 |

Results of the Feed Inspection.-Concluded.

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|--|--|---|---|--|---|--|
| 2.50 2.50 | 2.50 2.05 | 550000 550000 550000 5500000 5500000000 | 00000000000000000000000000000000000000 | 1.82 5.52 5.52 5.52 5.52 5.52 5.52 5.52 5 | 22200222222222222222222222222222222222 | 2.75 3.50 3.50 |
| 11.86 14.00 | 2.90 7.50 .95 | 1.26 3.20 3.20 5.20 5.20 5.20 5.20 5.20 5.20 5.20 5 | $ \begin{array}{c} 3.90\\ 1.45\\ 1.45\\ 1.86$ | 4.60 2.55 4.90 | $ \begin{array}{c} $ | 10.20 8.15 5.90 |
| 310.00 12.00 1015.00 | $\begin{array}{c} 3.40\\ 45.00\\ 34.00\end{array}$ | 25000000 550000000000000000000000000000 | 45.00 45.00 | 4.4.00 4.15.00 8.50 9.50 9.50 9.50 | 3 2 2 2 2 2 2 2 2 2 2 2 2 2 | 89.50 5.00 |
| 43.50 44.02 44.42 | 11.19 15.67 10.44 | $10.29 \\ 11.58 \\ 10.27 \\ 12.48 \\ 12.4$ | 11.37 10.00 9.96 | 10.23 11.11 17.29 17.29 17.20 | 20.74 15.79 11.28 10.49 9.49 8.30 8.30 | 20.02 19.92 23.22 28.82 28.82 |
| 35 - 45.00 55.00 4050.00 | $1517.00 \\ 1012.00 \\ 10$ | 1214.00 1214.00 10.00 11.00 11.00 | 10.00 1214.00 1214.00 | 1112.00 1113.00 17.00 17.00 | $\begin{array}{c} 2023.00\\ 1214.50\\ 1214.50\\ 10.00\\ 10.00\\ 10.00\\ 8.25\end{array}$ | $19, -21, 00 \\ 21, 00 \\ 25, 00 \\ 25, 00 \\ 00 \\ 00 \\ 00 \\ 00 \\ 00 \\ 00 \\ 00$ |
| Swift's Lowell Fert. Co. H. K. Webater Co., Lawrence, Mass. Whitman & Pratt, Lowell, Mass. | Cyphers Incubator Co., Buffalo Buffalo Cercal Co. | Albert Dickinson & Co | Great Western Coreal Co Great Western Coreal Co Grissvold & MacKinan Husted Miling Co | H. O. Co. | Park & Poilard Co. | Flint Mills Co., Milwaukee Quaker Oats Co. Great Western Correal Co Blatchford's Calf Meal Co., Waukegan, Ill |
| Beel Scraps and Poultry Feeds. Swifts Meat and Bone Meal. Pure Beel Scraps. | Poultry Feeds. Chick Pool. Poultry Peed Sentching Grain | Whitman's Poultry Mush. Wirthmore Seratch Feed Chick Feed Queen Poultry Mash Globe Scratch Feed | Storling Scratch Feed. Extra Good Scratch Feed. Competition Scratch Feed Husted Chick Feed. Husted Lavine Mash | Hustein Senteh Feed All Grain Christ Food All Grain Poultry Feed All Grain Poultry Mash. All Grain Poultry Mash. | Dry Mash Feed Gritless Chick Feed Intermediate Chick Feed Serated Feed Amer. Poulty Feed Amer. Poulty Feed High Grade Scratching Feed Wyandotte Chick Feed | Calf Feeds. Triangle Calf Feed Returnaters to Saff Meal. Grayson Calf Meal. Blatchford's Calf Meal. |

Oct., 1910.] INSPECTION OF FEEDING-STUFFS

9

AVERAGE COMPOSITION OF COMMON CATTLE FOODS.

| - | Water. | Ash. | Protein. | Soluble Carbohy- drates. | Fibre. | Fat. |
|-----------------------------|--------|------|----------|--------------------------------|--------|------|
| Alfalfa | 8.4 | 7.4 | 14.3 | 46.0 | 25.0 | 14.0 |
| * Hay, red top | 8.9 | 5.2 | 7.9 | 47.4 | 26.6 | 1.9 |
| * Hay, Timothy | 13.2 | 4.4 | 5.9 | 45.0 | 29.0 | 2.5 |
| * Hay, clover | 15.3 | 6.2 | 12.3 | 38.1 | 24.8 | 3.3 |
| * Hay, Hungarian | 7.7 | 6.0 | 7.5 | 49.0 | 27.7 | 2.1 |
| * Oat fodder | 8.9 | 6.2 | 7.6 | 45.1 | 29.3 | 2.8 |
| * Rye fodder, in bloom | 8.5 | 5.9 | 9.7 | 43.4 | 30.2 | 2.3 |
| * Corn stover | 40.1 | 3.4 | 3.8 | 31.9 | 19.7 | 1.1 |
| † Corn silage | 80.5 | 1.5 | 1.6 | 10.0 | 5.8 | 0.6 |
| * Corn, N. H. Flint | 10.1 | 1.5 | 11.6 | 70.2 | 1.1 | 5.5 |
| * Corn, Western Dent | 10.6 | 1.5 | 10.3 | 70.4 | 2.2 | 5.0 |
| * Corn meal | 15.0 | 1.4 | 9.2 | 68.7 | 1.9 | 3.8 |
| ¶ Hominy feed | 9.0 | 2.8 | 11.0 | 65.0 | 3.6 | 8.6 |
| * Oats, whole | 11.0 | 3.0 | 11.8 | 59.7 | 9.5 | 5.0 |
| ¶ Corn and oats, pure | 12.0 | 2.2 | 9.8 | 68.5 | 3.3 | 4.2 |
| § Wheat bran, spring | 10.6 | 6.0 | 16.3 | 53.0 | 9.4 | 4.7 |
| § Wheat bran, winter | 11.7 | 5.9 | 15.2 | 54.8 | 8.5 | 3.9 |
| ¶Wheat middlings, white | 11.3 | 2.7 | 15.8 | 62.5 | 3.5 | 4.2 |
| Wheat middlings, brown | 10.6 | 3.8 | 17.8 | 57.0 | 5.5 | 5.3 |
| ¶ Wheat feed | 10.8 | 4.3 | 17.0 | 58.1 | 5.1 | 4.7 |
| Gluten feed | 8.6 | 1.2 | 26.3 | 53.4 | 6.9 | 3.6 |
| Gluten meal | 8.8 | 0.7 | 35.5 | 50.3 | 1.6 | 3.1 |
| ‡ Distillers' Grains | 8.8 | 1.8 | 32.1 | 34.9 | 11.0 | 11.4 |
| Brewers' Grains | 8.0 | 3.8 | 23.1 | 49.4 | 10.8 | 4.9 |
| † Malt sprouts | 11.0 | 5.8 | 27.1 | 42.6 | 11.9 | 1.6 |
| I Linseed meal, old process | 9.8 | 5.5 | 33.9 | 35.7 | 7.3 | 7.8 |
| I Linseed meal, new process | 9.1 | 5.8 | 35.2 | 38.4 | 8.5 | 3.0 |
| I Cottonseed Meal | 6.9 | 7.2 | 44.6 | 25.1 | 5.6 | 10.6 |

Composition of American Feeding Stuffs. Jenkins and Winton.
† Analyses made at the N. H. Expt. Sta., 1895–1899.
§ Penn. Expt. Sta. Bull., No. 48.
11 Compiled from Feed Inspection Reports of various states.
‡ Hatch Expt. Sta. Bull., No. 94.

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