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Inspection and analyses of cotton-seed meal on sale in the state

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Mississippi Agricultural Experiment Station
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BULLETIN No. 151.-200

INSPECTION AND ANALYSES
OF COTTON-SEED MEAL

ON SALE IN THE STATE.



CHEMICAL LABORATORY.

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AGRICULTURAL COLLEGE, MISSISSIPPI

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THE INSPECTION OF COTTON-SEED MEAL

Season 1910-1911



Introduction.—During the season of 1910-1911 samples drawn by regular inspectors were analyzed. Analyses of 234 were published in Bulletin No. 148 distributed in July. In addition to the foregoing 95 samples were received from the mills. These samples were analyzed, as required by the fertilizer law, but analyses of inspectors' samples only are published this season. Inspectors are now drawing samples from all parts of the State and it is hoped that the first Bulletin of the season of 1911-1912 can be issued early during the winter.

Purchasers of cottonseed meal are almost continually reminded through Experiment Station Bulletins and agricultural journals that accurate analyses supply the only data upon which intelligent purchases of sound meal can be based and this is true whether the meal is used for feeding animals or employed as a fertilizer, i. e., for feeding plants, because its most valuable constituents in either case are the nitrogenous compounds contained in it. Animals make direct use of the nitrogenous compounds, while they are used indirectly by plants.

Cottonseed meal is distinctly a feeding stuff, and the practice of using it directly as a fertilizer material is very wasteful. Meal contains more protein than any of the common feed stuffs. The proteins carried by the meal contain practically all of its nitrogen. The proteins must form a part of the rations of all animals, and they constitute its most expensive part.

Experiments have shown that one pound of cottonseed meal will produce as much milk or beef as two pounds of corn meal. At the present time, however, good cottonseed meal is somewhat cheaper than corn meal.

But as a fertilizer alone, good cottonseed meal is worth more than the market price. Progressive farmers know that the best management requires that advantage be taken of both the feeding and fertilizer value of meal. The manure (liquid and solid) from a ton

of meal contains at least 70% of the fertilizer constituents in the original meal. If even 50% of these constituents reach the farm, all of its feeding value and half of its fertilizer value are recovered.

Purchase of cottonseed meal.—In this state the law allows meal of any quality to be sold so long as the bags containing it are properly branded, but no discriminating purchaser will buy low grade meal. Since many farmers and feeders make their purchases without first considering the analysis (i. e., the amount of nitrogen) a law requiring all meal sold in the state to be of good quality would prove beneficial. The statutes of some states forbid the sale of any meal that does not contain at least 6.18% of nitrogen (equivalent to 7.51% of ammonia and 38.63% of protein). The mills would have no trouble in making meal of this quality.

The price per ton should not be considered apart from the composition as shown by analysis or guaranty. A competition based on price instead of upon price and quality is responsible, doubtless, for many very unwise purchases. It is not sufficient for a purchaser to conclude that an arbitrary difference of, say, a dollar a ton, is a proper measure of the actual difference in value between meals of different quality, for the commercial values computed from analyses published in this Bulletin will show that, even between meals entitled to classification as High Grade, difference as great as several dollars a ton are not uncommon. The table of comparative values on page 6 will illustrate the significant variations in actual value which may exist.

Since the amount of nitrogen may be fairly used in estimating comparative values, the sale of meal on a unit basis ought to prove very satisfactory. As an illustration of this, we may assume that \$4.00 a unit is a fair price for meal. A unit is one per cent., e. g., a meal carrying 6.50% of nitrogen contains 6.50 units, which, at \$4.00 a unit, would be worth 6.50 times \$4.00, or \$26.00 a ton, while meal containing 7.00% of nitrogen or 7.00 units would be worth \$28.00 a ton, and a meal containing only 5.00% of nitrogen, or 5.00 units, would be worth \$20.00 a ton.

The sale of meal on the unit basis would place the trade upon the only proper basis, for those mills making the best meal would justly receive for their product the best price. The table of analyses will show that a few mills sell meal containing as much or more than 7.00% of nitrogen. Certainly the purchaser receives greater value in buying this meal than if he bought from another mill a quality carrying only 6.20% of nitrogen. If the same price is paid for the two grades, the

purchaser is in reality paying a meal price for the additional amount of hulls in the lower grade product, for the various qualities of meal are governed very largely by the hulls not removed in the processes of manufacture. It should be pointed out, however, that seed vary in quality, so that all meals containing, say, 6.50% of nitrogen do not necessarily contain the same proportion of hulls. From the standpoint of the purchaser, however, the conditions are essentially unchanged, because he pays most largely for the nitrogen, and, if it is not present in proper amount, he does not receive it, whether the deficiency in nitrogen be due entirely to too large a proportion of hulls or to both hulls and a poor quality of seed.

The sale of meal on the unit basis, as explained above, would prove especially helpful to many farmers who give little attention to buying meal and improper competition between the mills would be avoided altogether.

Table of comparative values.—The following table is inserted for the convenience of buyers in comparing values of various grades of meal. It is assumed that meal containing 6.40% of nitrogen can be bought for \$25.00 a ton.

If meal containing 6.40 per cent. of nitrogen is worth \$25.00 a ton.

| | |
|--|---------|
| Meal containing 7.20% of nitrogen is worth approximately | \$28.12 |
| Meal containing 7.10% of nitrogen is worth approximately | 27.73 |
| Meal containing 7.00% of nitrogen is worth approximately | 27.34 |
| Meal containing 6.90% of nitrogen is worth approximately | 26.95 |
| Meal containing 6.80% of nitrogen is worth approximately | 26.56 |
| Meal containing 6.70% of nitrogen is worth approximately | 26.17 |
| Meal containing 6.60% of nitrogen is worth approximately | 25.78 |
| Meal containing 6.50% of nitrogen is worth approximately | 25.39 |
| Meal containing 6.40% of nitrogen is worth approximately | 25.00 |
| Meal containing 6.30% of nitrogen is worth approximately | 24.61 |
| Meal containing 6.20% of nitrogen is worth approximately | 24.22 |
| Meal containing 6.10% of nitrogen is worth approximately | 23.83 |
| Meal containing 6.00% of nitrogen is worth approximately | 23.44 |
| Meal containing 5.90% of nitrogen is worth approximately | 23.05 |
| Meal containing 5.80% of nitrogen is worth approximately | 22.66 |
| Meal containing 5.70% of nitrogen is worth approximately | 22.27 |
| Meal containing 5.50% of nitrogen is worth approximately | 21.48 |
| Meal containing 5.25% of nitrogen is worth approximately | 20.51 |
| Meal containing 5.00% of nitrogen is worth approximately | 19.53 |
| Meal containing 3.50% of nitrogen is worth approximately | 13.67 |

General results of the inspection.—It is very encouraging to be able to point out that with comparatively few exceptions, the mills have met and exceeded their guaranties. The analyses will show that some mills are selling meal of exceptional quality.

This Bulletin contains 288 analyses. Of this number only two samples are deficient to the extent of 10%. Fifteen samples were found to be as much as 5% below guarantee. The remaining deficiencies were comparatively slight. On the other hand 17.4% of all analyses in this Bulletin are as much or more than 10% above guaranty. The percentage 5% above guaranty is gratifyingly large. If this standard is maintained in the future the public will have little cause to complain when the business is considered as a whole.

TABLE I.—Analyses of Cottonseed Meal

| Laboratory Number. | Name of Brand and Manufacturer. | Where and from Whom Collected. |
|--------------------|---|---|
| | BARBER & LEWIS OIL CO., Edwards, Miss. | |
| 17781 | H. G. Cottonseed Meal | Chas. H. Halsmith, Bolton |
| | BROOKHAVEN COTTON OIL & FERTILIZER CO., Brookhaven, Miss. | |
| 17753 | H. G. Cottonseed Meal | H. H. McGehee, Summit |
| 17768 | H. G. Cottonseed Meal | W. J. Carter, Bassfield |
| 17772 | H. G. Cottonseed Meal | Hudson & Co., Sumrall |
| 17788 | H. G. Cottonseed Meal | J. L. Holmes, Tylertown |
| 17791 | H. G. Cottonseed Meal | D. C. Coney, Bogue Chitto |
| 17872 | H. G. Cottonseed Meal | Biloxi Milling Co., Biloxi |
| 17941 | H. G. Cottonseed Meal | Lucedale Commercial Co., Lucedale |
| 17944 | H. G. Cottonseed Meal | Ovett Merc. Co., Ovett |
| 17985 | H. G. Cottonseed Meal | C. Atkinson's Sons Co., Summit |
| 18000 | H. G. Cottonseed Meal | Hudson & Co., Sumrall |
| 19122 | H. G. Cottonseed Meal | Merchants Groc. Co., Hattiesburg |
| | H. E. BRIDGES & COMPANY, Memphis, Tenn. | |
| 17981 | H. G. Cottonseed Meal | Carlyle & Taylor, Aberdeen |
| | BUCKEYE COTTON OIL CO., Greenwood, Miss. | |
| 17849 | H. G. Cottonseed Meal | J. L. Wells, Meridian |
| 17851 | H. G. Cottonseed Meal | Threefoot Bros. & Co., Meridian |
| 17888 | H. G. Cottonseed Meal | T. M. Steele & Sons, Forest |
| 17918 | H. G. Cottonseed Meal | Gulfport Groc. Co., Gulfport |
| 17927 | H. G. Cottonseed Meal | Gallaspy Bros. & Co., Union |
| 17951 | H. G. Cottonseed Meal | Forest Merc. Co., Forest |
| 17955 | H. G. Cottonseed Meal | Stewart Bros., Morton |
| 19123 | H. G. Cottonseed Meal | Gulfport Groc. Co., Gulfport |
| 19124 | H. G. Cottonseed Meal | Union Naval Stores, Gulfport |
| 19125 | H. G. Cottonseed Meal | W. E. Laird, Hattiesburg |
| 19126 | H. G. Cottonseed Meal | Tom Lyell Groc. Co., Meridian |
| 19127 | H. G. Cottonseed Meal | Queen City Feed Store, Meridian |
| 19128 | H. G. Cottonseed Meal | Gulfport Groc. Co., Gulfport |
| | BUCKEYE COTTON OIL CO., Jackson, Miss. | |
| 17765 | H. G. Cottonseed Meal | Morgan Co., Collins |
| 17770 | H. G. Cottonseed Meal | Farmers Warehouse Co., Carson |
| 17780 | H. G. Cottonseed Meal | Kennedy & Co., Wiggins |
| 17797 | H. G. Cottonseed Meal | W. G. McInnis, Pinola |

Collected by State Chemist, Season 1910-1911.

| Laboratory Number. | Moisture—Per Cent. | Nitrogen—Per Cent. Found. | Nitrogen—Per Cent. Guaranteed. | Ammonia—equivalent of Nitrogen—Found—Per Cent. | Ammonia—equivalent of Nitrogen—Guaranteed—Per Cent. | Value of Nitrogen Found—Per Ton. | Value of Nitrogen Guaranteed—Per Ton. |
|--------------------|--------------------|---------------------------|--------------------------------|--|---|----------------------------------|---------------------------------------|
| 17781 | 7.95 | 6.37 | 6.18 | 7.74 | 7.51 | 27.07 | 26.27 |
| 17753 | 8.44 | 6.41 | 6.18 | 7.79 | 7.51 | 27.24 | 26.27 |
| 17768 | 8.72 | 6.39 | 6.18 | 7.77 | 7.51 | 27.16 | 26.27 |
| 17772 | 8.53 | 6.13 | 6.18 | 7.45 | 7.51 | 26.05 | 26.27 |
| 17788 | 8.03 | 6.39 | 6.18 | 7.77 | 7.51 | 27.16 | 26.27 |
| 17791 | 7.71 | 6.49 | 6.18 | 7.89 | 7.51 | 27.58 | 26.27 |
| 17872 | 7.40 | 6.53 | 6.18 | 7.94 | 7.51 | 27.75 | 26.27 |
| 17941 | 7.61 | 6.49 | 6.18 | 7.89 | 7.51 | 27.58 | 26.27 |
| 17944 | 7.86 | 6.43 | 6.18 | 7.82 | 7.51 | 27.33 | 26.27 |
| 17985 | 8.66 | 6.45 | 6.18 | 7.84 | 7.51 | 27.41 | 26.27 |
| 18000 | 8.87 | 6.04 | 6.18 | 7.34 | 7.51 | 25.67 | 26.27 |
| 19122 | 8.80 | 6.17 | 6.18 | 7.50 | 7.51 | 26.22 | 26.27 |
| 17981 | 6.82 | 6.54 | 6.18 | 7.95 | 7.51 | 27.80 | 26.27 |
| 17849 | 7.11 | 5.96 | 6.18 | 7.25 | 7.51 | 25.33 | 26.27 |
| 17851 | 6.39 | 6.27 | 6.18 | 7.62 | 7.51 | 26.65 | 26.27 |
| 17888 | 7.93 | 6.73 | 6.18 | 8.18 | 7.51 | 28.60 | 26.27 |
| 17918 | 8.69 | 6.33 | 6.18 | 7.70 | 7.51 | 26.90 | 26.27 |
| 17927 | 8.15 | 6.26 | 6.18 | 7.61 | 7.51 | 26.61 | 26.27 |
| 17951 | 7.62 | 6.40 | 6.18 | 7.78 | 7.51 | 27.20 | 26.27 |
| 17955 | 6.37 | 6.59 | 6.18 | 8.01 | 7.51 | 28.01 | 26.27 |
| 19123 | 8.64 | 5.85 | 6.18 | 7.11 | 7.51 | 24.86 | 26.27 |
| 19124 | 8.72 | 5.70 | 6.18 | 6.93 | 7.51 | 24.23 | 26.27 |
| 19125 | 8.36 | 6.31 | 6.18 | 7.67 | 7.51 | 26.82 | 26.27 |
| 19126 | 8.07 | 5.81 | 6.18 | 7.06 | 7.51 | 24.69 | 26.27 |
| 19127 | 7.74 | 6.24 | 6.18 | 7.59 | 7.51 | 26.52 | 26.27 |
| 19128 | 9.52 | 5.97 | 6.18 | 7.26 | 7.51 | 25.37 | 26.27 |
| 17765 | 7.27 | 6.59 | 6.18 | 8.01 | 7.51 | 28.01 | 26.27 |
| 17770 | 8.05 | 6.60 | 6.18 | 8.02 | 7.51 | 28.05 | 26.27 |
| 17780 | 7.97 | 5.96 | 6.18 | 7.25 | 7.51 | 25.33 | 26.27 |
| 17797 | 7.82 | 6.57 | 6.18 | 7.99 | 7.51 | 27.92 | 26.27 |

TABLE I.—Analyses of Cottonseed Meal

| Laboratory Number. | Name of Brand and Manufacturer. | Where and from Whom Collected. |
|--|---------------------------------|--|
| 17798 | H. G. Cottonseed Meal | The Lampton Co., Columbia |
| 17801 | H. G. Cottonseed Meal | The Rankin Co., Columbia |
| 17805 | H. G. Cottonseed Meal | Gaddis & Slay Co., Magee |
| 17806 | H. G. Cottonseed Meal | H. A. Brown, Magee |
| 17814 | H. G. Cottonseed Meal | Conner Lumber Co., Seminary |
| 17838 | H. G. Cottonseed Meal | Farmers Warehouse Co., Pontotoc..... |
| 17862 | H. G. Cottonseed Meal | Buckley-Terry Co., Laurel..... |
| 17877 | H. G. Cottonseed Meal | Farmers' Union Warehouse, Gulfport.. |
| 17881 | H. G. Cottonseed Meal | Kennedy & Co., Wiggins |
| 17882 | H. G. Cottonseed Meal | The Tate Co., Laurel |
| 17899 | H. G. Cottonseed Meal | Brandon Merc. Co., Brandon |
| 17925 | H. G. Cottonseed Meal | C. W. Alexander Co., Louin |
| 17942 | H. G. Cottonseed Meal | Dorsett & Co., Richton |
| 17946 | H. G. Cottonseed Meal | C. W. Alexander Co., Louin..... |
| 17947 | H. G. Cottonseed Meal | L. D. McLaurin, Montrose..... |
| 17948 | H. G. Cottonseed Meal | C. W. Alexander, Montrose |
| 17949 | H. G. Cottonseed Meal | Bay Springs Feed & Whse Co., Bay Spg |
| 17988 | H. G. Cottonseed Meal | The Lampton Co., Columbia |
| 17989 | H. G. Cottonseed Meal | The Conner-Vaughn Co., Columbia |
| 17990 | H. G. Cottonseed Meal | Columbia Groc. Co., Columbia |
| 17991 | H. G. Cottonseed Meal | W. M. Prine, Weathersby |
| 17994 | H. G. Cottonseed Meal | Farmers Warehouse Co., Mize |
| 18005 | H. G. Cottonseed Meal | R. W. Hinton Co., Lumberton |
| 18012 | H. G. Cottonseed Meal | J. K. Dunn, McComb |
| 18016 | H. G. Cottonseed Meal | E. Edwards, Mendenhall |
| 19129 | H. G. Cottonseed Meal | R. H. Green & Bro., Jackson |
| 19130 | H. G. Cottonseed Meal | Merchants Groc. Co., Hattiesburg |
| 19131 | H. G. Cottonseed Meal | W. M. Biglane, Collins..... |
| 19132 | H. G. Cottonseed Meal | Foote-Patrick Co., Laurel..... |
| 19133 | H. G. Cottonseed Meal | R. W. Hinton Co., Lumberton |
| CANTON OIL MILL COMPANY, Canton, Miss. | | |
| 17897 | H. G. Cottonseed Meal | Paragon Gin Co., Canton |
| 17935 | H. G. Cottonseed Meal | Alexander & Brock, West |
| 17964 | H. G. Cottonseed Meal | Paragon Gin Co., Canton |
| 17965 | H. G. Cottonseed Meal | T. M. Howard, Canton |
| CENTRAL COTTON OIL CO., Jackson, Miss. | | |
| 17751 | H. G. Cottonseed Meal | J. K. Dunn, McComb |
| 17758 | H. G. Cottonseed Meal | H. E. Little, Oma |
| 17763 | H. G. Cottonseed Meal | H. S. Garrett, Star |
| 17769 | H. G. Cottonseed Meal | H. T. McGehee & Bro., Carson [§] |
| 17771 | H. G. Cottonseed Meal | J. H. Williams & Sons, Prentiss |
| 17778 | H. G. Cottonseed Meal | McHenry Merc. Co., McHenry |
| 17786 | H. G. Cottonseed Meal | J. S. Allred & Sons, Hazlehurst [!] |
| 17790 | H. G. Cottonseed Meal | J. D. Weathersby, McComb |

Collected by State Chemist, Season 1910-1911.

| Laboratory Number. | Moisture—Per Cent. | Nitrogen—Per Cent. Found. | Nitrogen—Per Cent. Guaranteed. | Ammonia—equivalent of Nitrogen—Found—Per Cent. | Ammonia—equivalent of Nitrogen—Guaranteed—Per Cent. | Value of Nitrogen Found—Per Ton. | Value of Nitrogen Guaranteed—Per Ton. |
|--------------------|--------------------|---------------------------|--------------------------------|--|---|----------------------------------|---------------------------------------|
| 17798 | 7.09 | 6.57 | 6.18 | 7.99 | 7.51 | 27.92 | 26.27 |
| 17801 | 6.79 | 6.55 | 6.18 | 7.96 | 7.51 | 27.84 | 26.27 |
| 17805 | 7.58 | 6.44 | 6.18 | 7.83 | 7.51 | 27.37 | 26.27 |
| 17806 | 7.88 | 6.66 | 6.18 | 8.10 | 7.51 | 28.31 | 26.27 |
| 17814 | 7.43 | 6.48 | 6.18 | 7.88 | 7.51 | 27.54 | 26.27 |
| 17838 | 7.41 | 6.61 | 6.18 | 8.04 | 7.51 | 28.09 | 26.27 |
| 17862 | 8.47 | 6.56 | 6.18 | 7.98 | 7.51 | 27.88 | 26.27 |
| 17877 | 8.19 | 6.76 | 6.18 | 8.22 | 7.51 | 28.73 | 26.27 |
| 17881 | 7.77 | 7.03 | 6.18 | 8.55 | 7.51 | 29.88 | 26.27 |
| 17882 | 6.55 | 7.13 | 6.18 | 8.67 | 7.51 | 30.32 | 26.27 |
| 17899 | 7.96 | 6.56 | 6.18 | 7.98 | 7.51 | 27.88 | 26.27 |
| 17925 | 9.11 | 6.46 | 6.18 | 7.85 | 7.51 | 27.46 | 26.27 |
| 17942 | 7.75 | 6.83 | 6.18 | 8.30 | 7.51 | 29.03 | 26.27 |
| 17946 | 7.61 | 6.49 | 6.18 | 7.89 | 7.51 | 27.58 | 26.27 |
| 17947 | 7.22 | 5.96 | 6.18 | 7.25 | 7.51 | 25.33 | 26.27 |
| 17948 | 7.32 | 5.77 | 6.18 | 7.02 | 7.51 | 24.52 | 26.27 |
| 17949 | 7.29 | 6.33 | 6.18 | 7.70 | 7.51 | 26.90 | 26.27 |
| 17988 | 7.98 | 6.71 | 6.18 | 8.16 | 7.51 | 28.52 | 26.27 |
| 17989 | 7.75 | 6.72 | 6.18 | 8.17 | 7.51 | 28.56 | 26.27 |
| 17990 | 9.03 | 6.72 | 6.18 | 8.17 | 7.51 | 28.56 | 26.27 |
| 17991 | 9.28 | 6.61 | 6.18 | 8.04 | 7.51 | 28.09 | 26.27 |
| 17994 | 7.89 | 6.85 | 6.18 | 8.33 | 7.51 | 29.11 | 26.27 |
| 18005 | 7.82 | 6.44 | 6.18 | 7.83 | 7.51 | 27.37 | 26.27 |
| 18012 | 8.32 | 6.48 | 6.18 | 7.88 | 7.51 | 27.54 | 26.27 |
| 18016 | 8.27 | 6.38 | 6.18 | 7.76 | 7.51 | 27.12 | 26.27 |
| 19129 | 8.62 | 6.11 | 6.18 | 7.43 | 7.51 | 25.97 | 26.27 |
| 19130 | 8.54 | 6.18 | 6.18 | 7.51 | 7.51 | 26.27 | 26.27 |
| 19131 | 9.14 | 6.10 | 6.18 | 7.42 | 7.51 | 25.93 | 26.27 |
| 19132 | 8.62 | 6.27 | 6.18 | 7.62 | 7.51 | 26.65 | 26.27 |
| 19133 | 9.15 | 6.06 | 6.18 | 7.37 | 7.51 | 25.76 | 26.27 |
| 17897 | 7.78 | 6.99 | 6.18 | 8.50 | 7.51 | 29.71 | 26.27 |
| 17935 | 8.04 | 6.82 | 6.18 | 8.29 | 7.51 | 28.99 | 26.27 |
| 17964 | 6.02 | 6.96 | 6.18 | 8.46 | 7.51 | 29.58 | 26.27 |
| 17965 | 8.03 | 6.46 | 6.18 | 7.85 | 7.51 | 27.46 | 26.27 |
| 17751 | 8.00 | 6.68 | 6.18 | 8.12 | 7.51 | 28.39 | 26.27 |
| 17758 | 8.09 | 6.47 | 6.18 | 7.87 | 7.51 | 27.50 | 26.27 |
| 17763 | 7.61 | 6.53 | 6.18 | 7.94 | 7.51 | 27.75 | 26.27 |
| 17769 | 8.68 | 6.72 | 6.18 | 8.17 | 7.51 | 28.56 | 26.27 |
| 17771 | 8.47 | 6.60 | 6.18 | 8.02 | 7.51 | 28.05 | 26.27 |
| 17778 | 9.24 | 6.30 | 6.18 | 7.66 | 7.51 | 26.78 | 26.27 |
| 17786 | 8.64 | 6.28 | 6.18 | 7.64 | 7.51 | 26.69 | 26.27 |
| 17790 | 7.29 | 6.62 | 6.18 | 8.05 | 7.51 | 28.14 | 26.27 |

TABLE I.—Analyses of Cottonseed Meal¹

| Laboratory Number. | Name of Brand and Manufacturer. | Where and from Whom Collected. |
|---|---------------------------------|---|
| 17792 | H. G. Cottonseed Meal | W. F. Boone, Monticello |
| 17793 | H. G. Cottonseed Meal | W. F. Boone, Monticello |
| 17796 | H. G. Cottonseed Meal | H. S. Garrett, Star |
| 17800 | H. G. Cottonseed Meal | Conner-Vaughn Co., Columbia |
| 17809 | H. G. Cottonseed Meal | Holloway & McRaney Co., Collins |
| 17822 | H. G. Cottonseed Meal | W. E. Laird, Hattiesburg |
| 17883 | H. G. Cottonseed Meal | Dunnagin-Whittaker Co., Laurel |
| 17887 | H. G. Cottonseed Meal | The Lampton Co., Columbia |
| 17956 | H. G. Cottonseed Meal | T. B. Gaddis, Morton |
| 17960 | H. G. Cottonseed Meal | J. S. Allred & Son, Hazlehurst |
| 17995 | H. G. Cottonseed Meal | Holloway & McRaney Co., Collins |
| 18010 | H. G. Cottonseed Meal | Wm. Atkinson & M'Donald Co., Wess'n |
| 19134 | H. G. Cottonseed Meal | J. S. Allred & Sons, Hazlehurst |
| 19135 | H. G. Cottonseed Meal | The Lampton Co., Columbia |
| CLAY COUNTY COTTON OIL CO., West Point, Miss. | | |
| 17841 | H. G. Cottonseed Meal | L. A. Sanderson, Vardaman |
| 17843 | H. G. Cottonseed Meal | Clay Co. Cot. Oil Co., West Point..... |
| 17847 | H. G. Cottonseed Meal | D. D. Morrison, DeKalb |
| 17973 | H. G. Cottonseed Meal | L. A. Sanderson, Vardaman |
| 17978 | H. G. Cottonseed Meal | W. M. Sheffield, Maben |
| 17980 | H. G. Cottonseed Meal | Clay Co. Cotton Oil Co., West Point..... |
| CRYSTAL SPRINGS OIL MILL, FERT. & M'F'G. CO., Crystal Springs, Miss. | | |
| 18009 | H. G. Cottonseed Meal | Lotterhos & Huber Co., Crystal Sp'gs. |
| DEESON OIL MILL, Deeson, Miss. | | |
| 17782 | H. G. Cottonseed Meal | C. J. Edwards & Co., Vicksburg..... |
| DeSOTO OIL MILL COMPANY, Greenville, Miss. | | |
| 17914 | H. G. Cottonseed Meal | Ruffin Merc. Co., Ellisville |
| 17916 | H. G. Cottonseed Meal | Kennedy Bros., New Augusta |
| DIXIE GRAIN COMPANY, Mobile, Ala. | | |
| 17876 | H. G. Cottonseed Meal | J. F. Krebbs, Moss Point..... |
| NO GUARANTEE—ILLEGAL | | |

Collected by State Chemist, Season 1910-1911.

| Laboratory Number. | Moisture—Per Cent. | Nitrogen—Per Cent. Found. | Nitrogen—Per Cent. Guaranteed. | Ammonia—equivalent of Nitrogen—Found—Per Cent. | Ammonia—equivalent of Nitrogen—Guaranteed—Per Cent. | Value of Nitrogen Found—Per Ton. | Value of Nitrogen Guaranteed—Per Ton. |
|--------------------|--------------------|---------------------------|--------------------------------|--|---|----------------------------------|---------------------------------------|
| 17792 | 8.25 | 6.29 | 6.18 | 7.65 | 7.51 | 26.73 | 26.27 |
| 17793 | 7.80 | 6.66 | 6.18 | 8.10 | 7.51 | 28.31 | 26.27 |
| 17796 | 7.89 | 6.78 | 6.18 | 8.24 | 7.51 | 28.82 | 26.27 |
| 17800 | 7.36 | 6.58 | 6.18 | 8.00 | 7.51 | 27.97 | 26.27 |
| 17809 | 7.87 | 6.51 | 6.18 | 7.91 | 7.51 | 27.67 | 26.27 |
| 17822 | 7.76 | 6.41 | 6.18 | 7.79 | 7.51 | 27.24 | 26.27 |
| 17883 | 8.19 | 6.68 | 6.18 | 8.12 | 7.51 | 28.39 | 26.27 |
| 17887 | 6.60 | 6.69 | 6.18 | 8.13 | 7.51 | 28.43 | 26.27 |
| 17956 | 7.16 | 6.47 | 6.18 | 7.87 | 7.51 | 27.50 | 26.27 |
| 17960 | 6.87 | 6.50 | 6.18 | 7.90 | 7.51 | 27.63 | 26.27 |
| 17995 | 8.55 | 6.64 | 6.18 | 8.07 | 7.51 | 28.22 | 26.27 |
| 18010 | 8.52 | 6.74 | 6.18 | 8.19 | 7.51 | 28.65 | 26.27 |
| 19134 | 9.27 | 6.51 | 6.18 | 7.91 | 7.51 | 27.67 | 26.27 |
| 19135 | 8.20 | 6.53 | 6.18 | 7.94 | 7.51 | 27.75 | 26.27 |
| 17841 | 6.65 | 6.82 | 6.18 | 8.29 | 7.51 | 28.99 | 26.27 |
| 17843 | 6.26 | 6.98 | 6.18 | 8.49 | 7.51 | 29.67 | 26.27 |
| 17847 | 6.34 | 6.85 | 6.18 | 8.33 | 7.51 | 29.11 | 26.27 |
| 17973 | 7.59 | 7.03 | 6.18 | 8.55 | 7.51 | 29.88 | 26.27 |
| 17978 | 7.42 | 6.37 | 6.18 | 7.74 | 7.51 | 27.07 | 26.27 |
| 17980 | 7.07 | 6.85 | 6.18 | 8.33 | 7.51 | 29.11 | 26.27 |
| 18009 | 7.07 | 7.25 | 6.18 | 8.81 | 7.51 | 30.81 | 26.27 |
| 17782 | 8.28 | 6.43 | 5.50 | 7.82 | 6.69 | 27.33 | 23.88 |
| 17914 | 8.58 | 6.13 | 6.18 | 7.45 | 7.51 | 26.05 | 26.27 |
| 17916 | 9.46 | 5.96 | 6.18 | 7.25 | 7.51 | 25.33 | 26.27 |
| 17876 | 8.20 | 6.11 | | 7.43 | | 25.97 | |

TABLE I.—Analyses of Cottonseed Meal

| Laboratory Number. | Name of Brand and Manufacturer. | Where and from Whom Collected. |
|--------------------|--|--|
| | EAGLE COTTON OIL COMPANY, Meridian, Miss. | |
| 17747 | H. G. Cottonseed Meal | W. M. Hyde & Co., Poplarville |
| 17775 | H. G. Cottonseed Meal | McLeod & Co., Purvis |
| 17858 | H. G. Cottonseed Meal | L. N. Knobles, State Line |
| 17900 | H. G. Cottonseed Meal | Loper Merc. Co., Lake |
| 17906 | H. G. Cottonseed Meal | R. W. Fagan & Co., Waynesboro..... |
| 17909 | H. G. Cottonseed Meal | W. S. Rogers & Son, Portersville |
| 17915 | H. G. Cottonseed Meal | Eureka Lumber Co., Eastabutchie..... |
| 17923 | H. G. Cottonseed Meal | L. D. McLaurin, Montrose..... |
| 17950 | H. G. Cottonseed Meal | Forest Gin & Mfg. Co., Forest |
| 18006 | H. G. Cottonseed Meal | McLeod & Co., Purvis |
| 19136 | H. G. Cottonseed Meal | McLeod & Co., Purvis |
| | A. H. GEORGE & CO., Meridian, Miss. | |
| 17854 | H. G. Cottonseed Meal | Quitman Vehicle & Harness Co., Q'tm'n |
| 17860 | H. G. Cottonseed Meal | State Line Merc. Co., State Line..... |
| 19138 | H. G. Cottonseed Meal | A. H. George & Co., Meridian..... |
| 19139 | H. G. Cottonseed Meal | Winner-Klein Co., Meridian |
| | FARMERS & GINNERS COTTON OIL COMPANY, Birmingham, Ala. | |
| 19137 | H. G. Cottonseed Meal | Meyer Bros., Meridian |
| | GRENADA OIL MILL, Grenada, Miss. | |
| 17836 | H. G. Cottonseed Meal | F. S. Leavell, Oxford |
| 17895 | H. G. Cottonseed Meal | W. S. Gordon, Pickens |
| 17936 | H. G. Cottonseed Meal | Durant Ice & Coal Co., Durant |
| 17967 | H. G. Cottonseed Meal | Grenada Oil Mill, Grenada |
| 19140 | H. G. Cottonseed Meal | Gulfport Groc. Co., Gulfport |
| | HAZLEHURST OIL MILL & FER- TILIZER COMPANY, Hazlehurst, Miss. | |
| 17749 | H. G. Cottonseed Meal | Summerland Merc. Co., Summerland |
| 17754 | H. G. Cottonseed Meal | Ginn-McDonald Co., Tylertown |
| 17755 | H. G. Cottonseed Meal | W. F. Funchess & Co., Osyka..... |
| 17756 | H. G. Cottonseed Meal | Bolian Merc. Co., Bogue Chitto |
| 17759 | H. G. Cottonseed Meal | J. S. Reno, Hopewell |
| 17762 | H. G. Cottonseed Meal | L. McDonald, D'Lo |
| 17896 | H. G. Cottonseed Meal | C. F. Nelson & Sons, Goodman |

Collected by State Chemist, Season 1910-1911.

| Laboratory Number. | Moisture—Per Cent. | Nitrogen—Per Cent. Found. | Nitrogen—Per Cent. Guaranteed. | Ammonia—equivalent of Nitrogen—Found—Per Cent. | Ammonia—equivalent of Nitrogen—Guaranteed—Per Cent. | Value of Nitrogen Found—Per Ton. | Value of Nitrogen Guaranteed—Per Ton. |
|--------------------|--------------------|---------------------------|--------------------------------|--|---|----------------------------------|---------------------------------------|
| 17747 | 6.60 | 6.49 | 6.18 | 7.89 | 7.51 | 27.58 | 26.27 |
| 17775 | 6.75 | 6.44 | 6.18 | 7.83 | 7.51 | 27.37 | 26.27 |
| 17858 | 7.25 | 6.84 | 6.18 | 8.32 | 7.51 | 29.07 | 26.27 |
| 17900 | 7.21 | 6.58 | 6.18 | 8.00 | 7.51 | 27.97 | 26.27 |
| 17906 | 7.25 | 6.84 | 6.18 | 8.32 | 7.51 | 29.07 | 26.27 |
| 17909 | 8.17 | 6.44 | 6.18 | 7.83 | 7.51 | 27.37 | 26.27 |
| 17915 | 8.94 | 6.47 | 6.18 | 7.87 | 7.51 | 27.50 | 26.27 |
| 17923 | 7.55 | 6.61 | 6.18 | 8.04 | 7.51 | 28.09 | 26.27 |
| 17950 | 6.79 | 6.79 | 6.18 | 8.26 | 7.51 | 28.86 | 26.27 |
| 18006 | 7.27 | 6.38 | 6.18 | 7.76 | 7.51 | 27.12 | 26.27 |
| 19136 | 8.99 | 5.38 | 6.18 | 6.54 | 7.51 | 22.87 | 26.27 |
| 17854 | 7.91 | 6.00 | 6.18 | 7.29 | 7.51 | 25.50 | 26.27 |
| 17860 | 6.98 | 6.51 | 6.18 | 7.91 | 7.51 | 27.67 | 26.27 |
| 19138 | 9.02 | 5.70 | 6.18 | 6.93 | 7.51 | 24.23 | 26.27 |
| 19139 | 8.74 | 5.82 | 6.18 | 7.08 | 7.51 | 24.74 | 26.27 |
| 19137 | 9.21 | 5.68 | 6.18 | 6.91 | 7.51 | 24.14 | 26.27 |
| 17836 | 8.45 | 6.29 | 6.20 | 7.65 | 7.54 | 26.73 | 26.35 |
| 17895 | 9.23 | 6.41 | 6.20 | 7.79 | 7.54 | 27.24 | 26.35 |
| 17936 | 8.47 | 6.37 | 6.20 | 7.74 | 7.54 | 27.07 | 26.35 |
| 17967 | 8.17 | 6.58 | 6.20 | 8.00 | 7.54 | 27.97 | 26.35 |
| 19140 | 9.77 | 6.39 | 6.20 | 7.77 | 7.54 | 27.16 | 26.35 |
| 17749 | 5.99 | 7.18 | 6.18 | 8.73 | 7.51 | 30.52 | 26.27 |
| 17754 | 6.11 | 7.08 | 6.18 | 8.61 | 7.51 | 30.09 | 26.27 |
| 17755 | 6.67 | 7.24 | 6.18 | 8.80 | 7.51 | 30.77 | 26.27 |
| 17756 | 7.09 | 7.04 | 6.18 | 8.56 | 7.51 | 29.92 | 26.27 |
| 17759 | 7.19 | 6.90 | 6.18 | 8.39 | 7.51 | 29.33 | 26.27 |
| 17762 | 5.33 | 7.12 | 6.18 | 8.66 | 7.51 | 30.26 | 26.27 |
| 17896 | 7.27 | 7.06 | 6.18 | 8.58 | 7.51 | 30.01 | 26.27 |

TABLE I.—Analyses of Cottonseed Meal

| Laboratory Number. | Name of Brand and Manufacturer. | Where and from Whom Collected. |
|--|---------------------------------|--|
| 17957 | H. G. Cottonseed Meal | Simpson Merc. Co., Terry |
| 17961 | H. G. Cottonseed Meal | R. L. Davis, Brookhaven |
| 17983 | H. G. Cottonseed Meal | Ginn-McDonald Co., Tylertown |
| 17984 | H. G. Cottonseed Meal | Osyka Supply Co., Osyka |
| 17987 | H. G. Cottonseed Meal | J. S. Reno, Hopewell |
| 18013 | H. G. Cottonseed Meal | W. F. Funchess & Co., Osyka..... |
| HOLLANDALE COTTON OIL MILL Hollandale, Miss. | | |
| 17807 | H. G. Cottonseed Meal | T. M. Thames, Magee |
| IMPERIAL COTTON OIL CO., Macon, Miss. | | |
| 17844 | H. G. Cottonseed Meal | Imperial Cotton Oil Co., Macon |
| 17846 | H. G. Cottonseed Meal | W. A. Parks, Brooksville |
| 17850 | H. G. Cottonseed Meal | Myer Bros., Meridian |
| 17886 | H. G. Cottonseed Meal | L. C. Smith, Lauderdale |
| 17889 | H. G. Cottonseed Meal | Forest Warehouse Co., Forest..... |
| 17901 | H. G. Cottonseed Meal | Myer Bros., Meridian |
| 17902 | H. G. Cottonseed Meal | Threefoot Bros. & Co., Meridian |
| 17904 | H. G. Cottonseed Meal | J. E. Miller, Leakesville |
| INDEPENDENT OIL & FERT. WORKS, Columbus, Miss. | | |
| 17831 | H. G. Cottonseed Meal | Ind. Oil & Fert. Works, Columbus ... |
| JACKSON FERTILIZER CO., Jackson, Miss. | | |
| 17982 | H. G. Cottonseed Meal | Centreville Merc. Co., Centreville |
| 18015 | H. G. Cottonseed Meal | E. M. Odom, Star |
| JACKSON OIL & REFINING CO., Jackson, Miss. | | |
| 17746 | H. G. Cottonseed Meal | J. E. McNair, Lumberton |
| 17761 | H. G. Cottonseed Meal | D'Lo Merc. Co., D'Lo |
| 17764 | H. G. Cottonseed Meal | W. C. Ellis & Co., Magee |
| 17773 | H. G. Cottonseed Meal | Hattiesburg Groc. Co., Hattiesburg..... |
| 17779 | H. G. Cottonseed Meal | J. S. Addkison, McHenry |
| 17787 | H. G. Cottonseed Meal | W. L. Dees, Crystal Springs |
| 17789 | H. G. Cottonseed Meal | J. K. Dunn, McComb |
| 17794 | H. G. Cottonseed Meal | R. F. Everett, Braxton |
| 17821 | H. G. Cottonseed Meal | Hattiesburg Groc. Co., Hattiesburg ... |
| 17823 | H. G. Cottonseed Meal | W. M. Conner, Hattiesburg |
| 17824 | H. G. Cottonseed Meal | D. G. Patton & Co., Jackson |

Collected by State Chemist, Season 1910-1911.

| Laboratory Number. | Moisture—Per Cent. | Nitrogen—Per Cent. Found. | Nitrogen—Per Cent. Guaranteed. | Ammonia—equivalent of Nitrogen—Found—Per Cent. | Ammonia—equivalent of Nitrogen—Guaranteed—Per Cent. | Value of Nitrogen Found—Per Ton. | Value of Nitrogen Guaranteed—Per Ton. |
|--------------------|--------------------|---------------------------|--------------------------------|--|---|----------------------------------|---------------------------------------|
| 17957 | 7.12 | 7.14 | 6.18 | 8.68 | 7.51 | 30.35 | 26.27 |
| 17961 | 6.83 | 7.17 | 6.18 | 8.72 | 7.51 | 30.47 | 26.27 |
| 17983 | 7.63 | 7.11 | 6.18 | 8.64 | 7.51 | 30.22 | 26.27 |
| 17984 | 7.64 | 7.27 | 6.18 | 8.84 | 7.51 | 30.90 | 26.27 |
| 17987 | 7.63 | 7.42 | 6.18 | 9.02 | 7.51 | 31.54 | 26.27 |
| 18013 | 7.24 | 7.08 | 6.18 | 8.61 | 7.51 | 30.09 | 26.27 |
| 17807 | 7.62 | 6.36 | 6.18 | 7.73 | 7.51 | 27.03 | 26.27 |
| 17844 | 6.16 | 6.65 | 6.18 | 8.09 | 7.51 | 28.26 | 26.27 |
| 17846 | 7.80 | 6.37 | 6.18 | 7.74 | 7.51 | 27.07 | 26.27 |
| 17850 | 6.31 | 6.79 | 6.18 | 8.26 | 7.51 | 28.86 | 26.27 |
| 17886 | 7.35 | 6.47 | 6.18 | 7.87 | 7.51 | 27.50 | 26.27 |
| 17889 | 7.24 | 6.34 | 6.18 | 7.71 | 7.51 | 26.95 | 26.27 |
| 17901 | 7.31 | 6.64 | 6.18 | 8.07 | 7.51 | 28.22 | 26.27 |
| 17902 | 6.79 | 6.71 | 6.18 | 8.16 | 7.51 | 28.52 | 26.27 |
| 17904 | 7.47 | 6.40 | 6.18 | 7.78 | 7.51 | 27.20 | 26.27 |
| 17831 | 7.46 | 6.61 | 6.18 | 8.04 | 7.51 | 28.09 | 26.27 |
| 17982 | 8.45 | 6.80 | 6.18 | 8.27 | 7.51 | 28.90 | 26.27 |
| 18015 | 8.98 | 6.66 | 6.18 | 8.10 | 7.51 | 28.31 | 26.27 |
| 17746 | 7.11 | 6.57 | 6.18 | 7.99 | 7.51 | 27.92 | 26.27 |
| 17761 | 6.12 | 6.60 | 6.18 | 8.02 | 7.51 | 28.05 | 26.27 |
| 17764 | 5.83 | 6.74 | 6.18 | 8.21 | 7.51 | 28.65 | 26.27 |
| 17773 | 5.82 | 6.64 | 6.18 | 8.07 | 7.51 | 28.22 | 26.27 |
| 17779 | 8.09 | 6.47 | 6.18 | 7.87 | 7.51 | 27.50 | 26.27 |
| 17787 | 6.47 | 6.43 | 6.18 | 7.82 | 7.51 | 27.33 | 26.27 |
| 17789 | 7.51 | 6.54 | 6.18 | 7.95 | 7.51 | 27.80 | 26.27 |
| 17794 | 7.08 | 6.21 | 6.18 | 7.55 | 7.51 | 26.39 | 26.27 |
| 17821 | 6.48 | 6.66 | 6.18 | 8.10 | 7.51 | 28.31 | 26.27 |
| 17823 | 5.69 | 6.52 | 6.18 | 7.93 | 7.51 | 27.71 | 26.27 |
| 17824 | 7.08 | 6.04 | 6.18 | 7.34 | 7.51 | 25.67 | 26.27 |

TABLE I.—Analyses of Cottonseed Meal

| Laboratory Number. | Name of Brand and Manufacturer. | Where and from Whom Collected. |
|---|--|--|
| 17861 | H. G. Cottonseed Meal | R. W. Fagan & Co., Waynesboro..... |
| 17868 | H. G. Cottonseed Meal | J. H. Shuttles & Son, Brooklyn |
| 17898 | H. G. Cottonseed Meal | J. A. Spann & Co., Pelahatchie |
| 17992 | H. G. Cottonseed Meal | D'Lo Merc. Co., D'Lo..... |
| 18003 | H. G. Cottonseed Meal | Hattiesburg Groc. Co., Hattiesburg |
| 18011 | H. G. Cottonseed Meal | Denman Alford Co., McComb |
| 18014 | H. G. Cottonseed Meal | R. F. Everett, Braxton |
| LAUREL OIL & FERTILIZER CO., Laurel, Miss. | | |
| 17812 | Extra H. G. Cottonseed Meal | S. M. Yelverton, Mt. Olive |
| 17884 | Extra H. G. Cottonseed Meal | Abney & Travis, Heidelberg |
| 17940 | Extra H. G. Cottonseed Meal | Croom & Story, Lucedale |
| 17993 | Extra H. G. Cottonseed Meal | E. B. Perry, Taylorsville |
| 17748 | H. G. Cottonseed Meal | W. M. Hyde & Co., Poplarville |
| 17760 | H. G. Cottonseed Meal | J. W. Pickering, Mendenhall |
| 17808 | H. G. Cottonseed Meal | E. B. Perry, Taylorsville |
| 17811 | H. G. Cottonseed Meal | S. M. Yelverton, Mt. Olive |
| 17816 | H. G. Cottonseed Meal | W. M. Hyde & Co., Poplarville |
| 17817 | H. G. Cottonseed Meal | McInnis & Stevenson, Poplarville |
| 17865 | H. G. Cottonseed Meal | Abney & Travis, Heidelberg |
| 17938 | H. G. Cottonseed Meal | Premium Merc. Co., Merrill |
| 17945 | H. G. Cottonseed Meal | J. J. Bradford & Co., Ovett |
| 17996 | H. G. Cottonseed Meal | S. M. Yelverton, Mt. Olive |
| 18004 | H. G. Cottonseed Meal | W. W. Pigford, Lumberton |
| 18007 | H. G. Cottonseed Meal | W. M. Hyde & Co., Poplarville |
| LEXINGTON COTTON OIL CO., Lexington, Miss. | | |
| 17934 | H. G. Cottonseed Meal | Lexington Cot. Oil Co., Lexington |
| 17958 | H. G. Cottonseed Meal | Wm. Atkinson & M'Donald Co., Wes'n |
| 17966 | H. G. Cottonseed Meal | Lexington Cotton Oil Co., Lexington .. |
| MERIDIAN FERT. FACTORY, Hattiesburg, Miss. | | |
| 17943 | Golden Rod H. G. Cottonseed Meal | C. H. Stevens Co., Richton |
| MERIDIAN FERT. FACTORY, Meridian, Miss. | | |
| 17815 | Golden Rod H. G. Cottonseed Meal | Sumrall Merc. Co., Sumrall |
| 17893 | Golden Rod H. G. Cottonseed Meal | J. N. Tabor, Agent, Louisville |
| 17954 | Golden Rod H. G. Cottonseed Meal | Ross Bros. & Summer, Pelahatchie..... |

Collected by State Chemist, Season 1910-1911.

| Laboratory Number. | Moisture—Per Cent. | Nitrogen—Per Cent. Found. | Nitrogen—Per Cent. Guaranteed. | Ammonia—equivalent of Nitrogen—Found—Per Cent. | Ammonia—equivalent of Nitrogen—Guaranteed—Per Cent. | Value of Nitrogen Found—Per Ton. | Value of Nitrogen Guaranteed—Per Ton. |
|--------------------|--------------------|---------------------------|--------------------------------|--|---|----------------------------------|---------------------------------------|
| 17861 | 7.34 | 6.31 | 6.18 | 7.67 | 7.51 | 26.82 | 26.27 |
| 17868 | 7.48 | 6.53 | 6.18 | 7.94 | 7.51 | 27.75 | 26.27 |
| 17898 | 7.38 | 6.74 | 6.18 | 8.19 | 7.51 | 28.65 | 26.27 |
| 17992 | 7.92 | 6.64 | 6.18 | 8.07 | 7.51 | 28.22 | 26.27 |
| 18003 | 7.48 | 6.64 | 6.18 | 8.07 | 7.51 | 28.22 | 26.27 |
| 18011 | 8.53 | 6.42 | 6.18 | 7.81 | 7.51 | 27.29 | 26.27 |
| 18014 | 8.53 | 6.36 | 6.18 | 7.73 | 7.51 | 27.03 | 26.27 |
| 17812 | 6.41 | 6.88 | 6.56 | 8.36 | 7.98 | 29.24 | 27.88 |
| 17884 | 7.41 | 6.99 | 6.56 | 8.50 | 7.98 | 29.71 | 27.88 |
| 17940 | 7.31 | 6.30 | 6.56 | 7.66 | 7.98 | 26.78 | 27.88 |
| 17993 | 7.60 | 7.05 | 6.56 | 8.57 | 7.98 | 29.96 | 27.88 |
| 17748 | 7.77 | 6.32 | 6.18 | 7.68 | 7.51 | 26.86 | 26.27 |
| 17760 | 7.77 | 5.66 | 6.18 | 6.88 | 7.51 | 24.06 | 26.27 |
| 17808 | 6.60 | 6.48 | 6.18 | 7.88 | 7.51 | 27.54 | 26.27 |
| 17811 | 7.19 | 6.38 | 6.18 | 7.76 | 7.51 | 27.12 | 26.27 |
| 17816 | 6.86 | 6.37 | 6.18 | 7.74 | 7.51 | 27.07 | 26.27 |
| 17817 | 7.53 | 6.32 | 6.18 | 7.68 | 7.51 | 26.86 | 26.27 |
| 17865 | 7.25 | 6.59 | 6.18 | 8.01 | 7.51 | 28.01 | 26.27 |
| 17938 | 8.12 | 6.30 | 6.18 | 7.66 | 7.51 | 26.78 | 26.27 |
| 17945 | 7.36 | 6.54 | 6.18 | 7.95 | 7.51 | 27.80 | 26.27 |
| 17996 | 7.82 | 6.79 | 6.18 | 8.26 | 7.51 | 28.86 | 26.27 |
| 18004 | 8.14 | 6.11 | 6.18 | 7.43 | 7.51 | 25.97 | 26.27 |
| 18007 | 7.60 | 5.97 | 6.18 | 7.26 | 7.51 | 25.37 | 26.27 |
| 17934 | 9.40 | 6.43 | 6.18 | 7.82 | 7.51 | 27.33 | 26.27 |
| 17958 | 8.55 | 6.50 | 6.18 | 7.90 | 7.51 | 27.63 | 26.27 |
| 17966 | 8.61 | 6.54 | 6.18 | 7.95 | 7.51 | 27.80 | 26.27 |
| 17943 | 8.08 | 6.33 | 6.59 | 7.70 | 8.01 | 26.90 | 28.01 |
| 17815 | 6.36 | 6.82 | 6.59 | 8.29 | 8.01 | 28.99 | 28.01 |
| 17893 | 8.29 | 6.63 | 6.59 | 8.06 | 8.01 | 28.18 | 28.01 |
| 17954 | 7.26 | 6.37 | 6.59 | 7.74 | 8.01 | 27.07 | 28.01 |

TABLE I.—Analyses of Cottonseed Meal

| Laboratory Number. | Name of Brand and Manufacturer. | Where and from Whom Collected. |
|--|---------------------------------|--|
| 17766 | H. G. Cottonseed Meal | Ship Island Lumber Co., Sanford..... |
| 17767 | H. G. Cottonseed Meal | R. Watts & Co., Seminary |
| 17845 | H. G. Cottonseed Meal | J. H. Williams, Macon |
| 17856 | H. G. Cottonseed Meal | F. H. Deas, Enterprise |
| 17885 | H. G. Cottonseed Meal | J. M. Carter, Quitman |
| 17911 | H. G. Cottonseed Meal | W. Rosenbaum, DeKalb |
| 17912 | H. G. Cottonseed Meal | S. D. Stennis & Co., DeKalb..... |
| 17917 | H. G. Cottonseed Meal | J. F. Ruffin Co., New Augusta |
| MINTER CITY OIL WORKS, Minter City, Miss. | | |
| 17986 | S. G. Cottonseed Meal | Hyman Merc. Co., Summit |
| 19141 | S. G. Cottonseed Meal | Durant Ice & Coal Co., Durant |
| MISSISSIPPI COTTON OIL CO., Columbus, Miss. | | |
| 17774 | H. G. Cottonseed Meal | Miss. Cot. Oil Co., J. W. Treene, Agent, Purvis |
| 17829 | H. G. Cottonseed Meal | Miss. Cotton Oil Co., Columbus |
| 17852 | H. G. Cottonseed Meal | Rosenbaum & Little, Lauderdale |
| MISSISSIPPI COTTON OIL CO., Grenada, Miss. | | |
| 17834 | H. G. Cottonseed Meal | Miss. Cotton Oil Co., Grenada..... |
| 17968 | H. G. Cottonseed Meal | Miss. Cotton Oil Co., Grenada |
| 19142 | H. G. Cottonseed Meal | M. M. Moody, Long Beach |
| 19143 | H. G. Cottonseed Meal | Farmers Wareh'se Co., Charleston |
| MISSISSIPPI COTTON OIL CO., Jackson, Miss. | | |
| 17752 | H. G. Cottonseed Meal | C. Atkinson's Sons Co., Summit |
| 17757 | H. G. Cottonseed Meal | L. D. Spell & Bro., Georgetown |
| 17795 | H. G. Cottonseed Meal | E. M. Odom, Star |
| 17804 | H. G. Cottonseed Meal | Byrne-Rawls Co., Silver Creek |
| 17810 | H. G. Cottonseed Meal | G. H. Pond, Collins |
| 17819 | H. G. Cottonseed Meal | Stockstill, McGehee Co., Picayune |
| 17820 | H. G. Cottonseed Meal | Merchants Groc. Co., Hattiesburg |
| 17870 | H. G. Cottonseed Meal | Gulfport Groc. Co., Gulfport |
| 17873 | H. G. Cottonseed Meal | W. H. Westphal, Van Cleave |
| 17874 | H. G. Cottonseed Meal | J. & S. Anderson, Van Cleave |
| 17875 | H. G. Cottonseed Meal | McLeod & Dantzler, Van Cleave |
| 17879 | H. G. Cottonseed Meal | M. M. Moody, Long Beach |
| 17880 | H. G. Cottonseed Meal | Perkins & Co., Brooklyn |
| 17891 | H. G. Cottonseed Meal | Gallaspy Bros. & Co., Union |
| 17919 | H. G. Cottonseed Meal | M. M. Moody, Long Beach |
| 17920 | H. G. Cottonseed Meal | E. S. Davis & Son, Ocean Springs |

Collected by State Chemist, Season 1910-1911.

| Laboratory Number. | Moisture—Per Cent. | Nitrogen—Per Cent. Found. | Nitrogen—Per Cent. Guaranteed. | Ammonia—equivalent of Nitrogen—Found—Per Cent. | Ammonia—equivalent of Nitrogen—Guaranteed—Per Cent. | Value of Nitrogen Found—Per Ton. | Value of Nitrogen Guaranteed—Per Ton. |
|--------------------|--------------------|---------------------------|--------------------------------|--|---|----------------------------------|---------------------------------------|
| 17766 | 6.88 | 6.32 | 6.18 | 7.68 | 7.51 | 26.86 | 26.27 |
| 17767 | 7.56 | 6.39 | 6.18 | 7.77 | 7.51 | 27.16 | 26.27 |
| 17845 | 8.48 | 6.26 | 6.18 | 7.61 | 7.51 | 26.61 | 26.27 |
| 17856 | 7.10 | 6.88 | 6.18 | 8.36 | 7.51 | 29.24 | 26.27 |
| 17885 | 7.79 | 6.71 | 6.18 | 8.16 | 7.51 | 28.52 | 26.27 |
| 17911 | 8.57 | 6.34 | 6.18 | 7.71 | 7.51 | 26.95 | 26.27 |
| 17912 | 8.41 | 6.49 | 6.18 | 7.89 | 7.51 | 27.58 | 26.27 |
| 17917 | 9.27 | 6.28 | 6.18 | 7.64 | 7.51 | 26.69 | 26.27 |
| 17986 | 8.45 | 6.62 | 4.95 | 8.05 | 6.02 | 28.14 | 21.04 |
| 19141 | 8.74 | 6.44 | 4.95 | 7.83 | 6.02 | 27.37 | 21.04 |
| 17774 | 4.93 | 6.63 | 6.18 | 8.06 | 7.51 | 28.18 | 26.27 |
| 17829 | 7.89 | 6.40 | 6.18 | 7.78 | 7.51 | 27.20 | 26.27 |
| 17852 | 8.88 | 6.45 | 6.18 | 7.84 | 7.51 | 27.41 | 26.27 |
| 17834 | 9.20 | 6.25 | 6.18 | 7.60 | 7.51 | 26.56 | 26.27 |
| 17968 | 8.90 | 6.52 | 6.18 | 7.93 | 7.51 | 27.71 | 26.27 |
| 19142 | 11.07 | 6.08 | 6.18 | 7.39 | 7.51 | 25.84 | 26.27 |
| 19143 | 10.89 | 6.21 | 6.18 | 7.55 | 7.51 | 26.39 | 26.27 |
| 17752 | 8.60 | 6.53 | 6.18 | 7.94 | 7.51 | 27.75 | 26.27 |
| 17757 | 7.40 | 6.80 | 6.18 | 8.27 | 7.51 | 28.90 | 26.27 |
| 17795 | 7.87 | 6.36 | 6.18 | 7.73 | 7.51 | 27.03 | 26.27 |
| 17804 | 8.96 | 6.26 | 6.18 | 7.61 | 7.51 | 26.61 | 26.27 |
| 17810 | 8.27 | 6.34 | 6.18 | 7.71 | 7.51 | 26.95 | 26.27 |
| 17819 | 8.44 | 6.18 | 6.18 | 7.51 | 7.51 | 26.27 | 26.27 |
| 17820 | 7.70 | 6.09 | 6.18 | 7.40 | 7.51 | 25.88 | 26.27 |
| 17870 | 8.23 | 6.20 | 6.18 | 7.54 | 7.51 | 26.35 | 26.27 |
| 17873 | 8.54 | 6.43 | 6.18 | 7.82 | 7.51 | 27.33 | 26.27 |
| 17874 | 9.72 | 6.43 | 6.18 | 7.82 | 7.51 | 27.33 | 26.27 |
| 17875 | 8.94 | 6.47 | 6.18 | 7.87 | 7.51 | 27.50 | 26.27 |
| 17879 | 8.78 | 6.63 | 6.18 | 8.06 | 7.51 | 28.18 | 26.27 |
| 17880 | 8.28 | 6.66 | 6.18 | 8.10 | 7.51 | 28.31 | 26.27 |
| 17891 | 8.63 | 6.10 | 6.18 | 7.42 | 7.51 | 25.93 | 26.27 |
| 17919 | 8.97 | 6.48 | 6.18 | 7.88 | 7.51 | 27.54 | 26.27 |
| 17920 | 8.82 | 6.58 | 6.18 | 8.00 | 7.51 | 27.97 | 26.27 |

TABLE I.—Analyses of Cottonseed Meal

| Laboratory Number. | Name of Brand and Manufacturer. | Where and from Whom Collected. |
|--|---------------------------------|--|
| 17922 | H. G. Cottonseed Meal | W. H. Westphal, Van Cleave |
| 17953 | H. G. Cottonseed Meal | Ross Bros. & Summer, Pelahatchie..... |
| 17962 | H. G. Cottonseed Meal | R. L. Davis, Brookhaven |
| 17963 | H. G. Cottonseed Meal | Max Priebatsch, Brookhaven |
| 17997 | H. G. Cottonseed Meal | Ship Island Lumber Co., Sanford..... |
| 17785 | H. G. Cottonseed Meal | Z. Wardlaw, Utica |
| MISSISSIPPI COTTON OIL CO., Meridian, Miss. | | |
| 17776 | H. G. Cottonseed Meal | Picayune Feed & Fert. Co., Picayune.... |
| 17818 | H. G. Cottonseed Meal | R. W. Hinton Co., Lumberton |
| 17853 | H. G. Cottonseed Meal | J. M. Carter, Quitman |
| 17859 | H. G. Cottonseed Meal | Mrs. R. J. Briggs, Jr., State Line..... |
| 17863 | H. G. Cottonseed Meal | Hand Bros., Ellisville |
| 17878 | H. G. Cottonseed Meal | Guy Northrop, Pass Christian |
| 17905 | H. G. Cottonseed Meal | Mrs. R. J. Briggs, Jr., State Line |
| 17910 | H. G. Cottonseed Meal | Rosenbaum & Little, Lauderdale |
| 17913 | H. G. Cottonseed Meal | Farmers Warehouse Co., Ellisville |
| 17921 | H. G. Cottonseed Meal | J. & S. Anderson, Van Cleave..... |
| 17926 | H. G. Cottonseed Meal | R. L. Simmons, Newton |
| MISSISSIPPI COTTON OIL CO., Natchez, Miss. | | |
| 17864 | H. G. Cottonseed Meal | Farmers Union Wareh'se Co., Ellisville |
| MISSISSIPPI COTTON OIL CO., West Point, Miss. | | |
| 17842 | H. G. Cottonseed Meal | Miss. Cotton Oil Co., West Point..... |
| MISSISSIPPI COTTON OIL CO., Yazoo City, Miss. | | |
| 17937 | H. G. Cottonseed Meal | Albert C. Gottche, Ocean Springs |
| 18002 | H. G. Cottonseed Meal | Merchants Groc. Co., Hattiesburg |
| NATCHEZ OIL COMPANY, Natchez, Miss. | | |
| 17784 | H. G. Cottonseed Meal | Natchez Oil Co., Natchez |
| NEWTON OIL & M'F'G. CO., Newton, Miss. | | |
| 17867 | H. G. Cottonseed Meal | Foote-Patrick Co., Laurel |
| 17924 | H. G. Cottonseed Meal | C. W. Alexander, Montrose |
| 17928 | H. G. Cottonseed Meal | J. T. Mitchell, Union |
| 17931 | H. G. Cottonseed Meal | J. A. Greaves, Agent, Philadelphia |
| 17952 | H. G. Cottonseed Meal | R. I. O'Bannon, Forest |
| 17971 | H. G. Cottonseed Meal | Farmers Union Warehouse, Pontotoc |
| 19144 | H. G. Cottonseed Meal | Buckley, Terry Co., Laurel |

Collected by State Chemist, Season 1910-1911.

| Laboratory Number. | Moisture—Per Cent. | Nitrogen—Per Cent. Found. | Nitrogen—Per Cent. Guaranteed. | Ammonia—equivalent of Nitrogen—Found—Per Cent. | Ammonia—equivalent of Nitrogen—Guaranteed—Per Cent. | Value of Nitrogen Found—Per Ton. | Value of Nitrogen Guaranteed—Per Ton. |
|--------------------|--------------------|---------------------------|--------------------------------|--|---|----------------------------------|---------------------------------------|
| 17922 | 8.88 | 6.55 | 6.18 | 7.96 | 7.51 | 27.84 | 26.27 |
| 17953 | 8.45 | 6.30 | 6.18 | 7.66 | 7.51 | 26.78 | 26.27 |
| 17962 | 8.75 | 5.63 | 6.18 | 6.84 | 7.51 | 23.93 | 26.27 |
| 17963 | 8.47 | 5.90 | 6.18 | 7.17 | 7.51 | 25.08 | 26.27 |
| 17997 | 9.00 | 6.33 | 6.18 | 7.70 | 7.51 | 26.90 | 26.27 |
| 17785 | 9.28 | 5.79 | 6.18 | 7.04 | 7.51 | 24.61 | 26.27 |
| 17776 | 9.31 | 6.08 | 6.18 | 7.39 | 7.51 | 25.84 | 26.27 |
| 17818 | 9.31 | 6.59 | 6.18 | 8.01 | 7.51 | 28.01 | 26.27 |
| 17853 | 9.03 | 6.48 | 6.18 | 7.88 | 7.51 | 27.54 | 26.27 |
| 17859 | 9.12 | 6.48 | 6.18 | 7.88 | 7.51 | 27.54 | 26.27 |
| 17863 | 9.44 | 6.22 | 6.18 | 7.56 | 7.51 | 26.44 | 26.27 |
| 17878 | 8.88 | 6.25 | 6.18 | 7.60 | 7.51 | 26.56 | 26.27 |
| 17905 | 7.31 | 6.46 | 6.18 | 7.85 | 7.51 | 27.48 | 26.27 |
| 17910 | 8.88 | 6.53 | 6.18 | 7.94 | 7.51 | 27.75 | 26.27 |
| 17913 | 9.08 | 6.01 | 6.18 | 7.31 | 7.51 | 25.54 | 26.27 |
| 17921 | 9.54 | 6.39 | 6.18 | 7.77 | 7.51 | 27.16 | 26.27 |
| 17926 | 9.12 | 6.72 | 6.18 | 8.17 | 7.51 | 28.56 | 26.27 |
| 17864 | 8.78 | 6.39 | 6.18 | 7.77 | 7.51 | 27.16 | 26.27 |
| 17842 | 8.62 | 6.11 | 6.18 | 7.43 | 7.51 | 25.97 | 26.27 |
| 17937 | 9.49 | 5.32 | 6.18 | 6.47 | 7.51 | 22.61 | 26.27 |
| 18002 | 8.72 | 6.03 | 6.18 | 7.33 | 7.51 | 25.63 | 26.27 |
| 17784 | 7.42 | 6.27 | 6.18 | 7.62 | 7.51 | 26.65 | 26.27 |
| 17867 | 7.59 | 6.90 | 6.18 | 8.39 | 7.51 | 29.33 | 26.27 |
| 17924 | 7.45 | 7.02 | 6.18 | 8.53 | 7.51 | 29.84 | 26.27 |
| 17928 | 8.00 | 6.88 | 6.18 | 8.36 | 7.51 | 29.24 | 26.27 |
| 17931 | 8.21 | 6.88 | 6.18 | 8.36 | 7.51 | 29.24 | 26.27 |
| 17952 | 7.31 | 6.71 | 6.18 | 8.16 | 7.51 | 28.52 | 26.27 |
| 17971 | 8.35 | 7.02 | 6.18 | 8.53 | 7.51 | 29.84 | 26.27 |
| 19144 | 8.92 | 6.57 | 6.18 | 7.99 | 7.51 | 27.92 | 26.27 |

TABLE I.—Analyses of Cottonseed Meal

| Laboratory Number. | Name of Brand and Manufacturer. | Where and from Whom Collected. |
|--------------------|--|--|
| | NORTH MISSISSIPPI OIL MILLS, Holly Springs, Miss. | |
| 17837 | H. G. Cottonseed Meal | North Miss. Oil Mills, Holly Springs.... |
| 17969 | H. G. Cottonseed Meal | North Miss. Oil Mills, Holly Springs.... |
| | OKOLONA OIL COMPANY, Okolona, Miss. | |
| 17840 | H. G. Cottonseed Meal | Farmers Warehouse Co., Houston |
| | OXFORD OIL MILL COMPANY, Oxford, Miss. | |
| 17835 | H. G. Cottonseed Meal | Oxford Oil Mill Co., Oxford |
| | PEOPLES' COTTON OIL & FIBRE COMPANY, North Carrollton, Miss. | |
| 17979 | H. G. Cottonseed Meal | Buchanan & Co., Eupora..... |
| | PLANTERS GIN & OIL CO., Baldwyn, Miss. | |
| 17975 | H. G. Cottonseed Meal | Planters Gin & Oil Co., Baldwyn..... |
| | PLANTERS OIL MILL, Tunica, Miss. | |
| 17799 | H. G. Cottonseed Meal | Conner-Vaughn Co., Columbia |
| 17869 | H. G. Cottonseed Meal | M. M. Moody, Long Beach |
| 17871 | H. G. Cottonseed Meal | Gulfport Feed Store, Gulfport |
| | PLANTERS OIL MILL & GIN CO., Kosciusko, Miss. | |
| 17894 | H. G. Cottonseed Meal | Planters Oil Mill & Gin Co., Kosciusko |
| 17932 | H. G. Cottonseed Meal | Coleman Bros., Noxapater |
| 17933 | H. G. Cottonseed Meal | O. L. Shaw, Ackerman..... |
| | PLANTERS OIL MILL & M'FG. COMPANY, Greenwood, Miss. | |
| 17750 | H. G. Cottonseed Meal | Denman-Alford Co., McComb |
| 17813 | H. G. Cottonseed Meal | R. Watts & Co., Seminary |
| 17857 | H. G. Cottonseed Meal | W. L. Weems, Shubuta |
| 17907 | H. G. Cottonseed Meal | J. K. Kirkland, Quitman |
| 17908 | H. G. Cottonseed Meal | J. W. Shirley, DeSoto |

Collected by State Chemist, Season 1910-1911.

| Laboratory Number. | Moisture—Per Cent. | Nitrogen—Per Cent. Found. | Nitrogen—Per Cent. Guaranteed. | Ammonia—equivalent of Nitrogen—Found—Per Cent. | Ammonia—equivalent of Nitrogen—Guaranteed—Per Cent. | Value of Nitrogen Found—Per Ton. | Value of Nitrogen Guaranteed—Per Ton. |
|--------------------|--------------------|---------------------------|--------------------------------|--|---|----------------------------------|---------------------------------------|
| 17837 | 6.43 | 6.66 | 6.18 | 8.10 | 7.51 | 28.31 | 26.27 |
| 17969 | 6.52 | 6.58 | 6.18 | 8.00 | 7.51 | 27.97 | 26.27 |
| 17840 | 7.32 | 6.91 | 6.18 | 8.40 | 7.51 | 29.37 | 26.27 |
| 17835 | 6.09 | 7.25 | 6.18 | 8.81 | 7.51 | 30.81 | 26.27 |
| 17979 | 8.54 | 5.90 | 6.18 | 7.17 | 7.51 | 25.08 | 26.27 |
| 17975 | 7.49 | 7.21 | 6.18 | 8.77 | 7.51 | 30.64 | 26.27 |
| 17799 | 6.46 | 6.24 | 6.50 | 7.59 | 7.90 | 26.52 | 27.63 |
| 17869 | 8.28 | 6.15 | 6.50 | 7.48 | 7.90 | 26.14 | 27.63 |
| 17871 | 7.64 | 6.21 | 6.50 | 7.55 | 7.90 | 26.39 | 27.63 |
| 17894 | 7.76 | 6.58 | 6.18 | 8.00 | 7.51 | 27.97 | 26.27 |
| 17932 | 7.96 | 6.70 | 6.18 | 8.15 | 7.51 | 28.48 | 26.27 |
| 17933 | 7.62 | 6.71 | 6.18 | 8.16 | 7.51 | 28.52 | 26.27 |
| 17750 | 7.42 | 6.55 | 6.18 | 7.96 | 7.51 | 27.84 | 26.27 |
| 17813 | 7.06 | 6.49 | 6.18 | 7.89 | 7.51 | 27.58 | 26.27 |
| 17857 | 7.54 | 6.33 | 6.18 | 7.70 | 7.51 | 26.90 | 26.27 |
| 17907 | 8.34 | 6.47 | 6.18 | 7.87 | 7.51 | 27.50 | 26.27 |
| 17908 | 8.26 | 6.46 | 6.18 | 7.85 | 7.51 | 27.46 | 26.27 |

TABLE I.—Analyses of Cottonseed Meal

| Laboratory Number. | Name of Brand and Manufacturer. | Where and from Whom Collected. |
|--------------------|---|---|
| 17939 | H. G. Cottonseed Meal | Premium Merc. Co., Merrill |
| 17998 | H. G. Cottonseed Meal | Stewart & Hemeter, Seminary |
| 17999 | H. G. Cottonseed Meal | R. Watts & Co., Seminary |
| 18001 | H. G. Cottonseed Meal | Sumrall Merc. Co., Sumrall |
| 18008 | H. G. Cottonseed Meal | C. J. Edwards Co., Vicksburg |
| 19145 | H. G. Cottonseed Meal | C. J. Edwards Co., Vicksburg |
| | PONTOTOC COTTON OIL CO., Pontotoc, Miss. | |
| 17828 | H. G. Cottonseed Meal | Butler & Fife, New Albany |
| 17839 | H. G. Cottonseed Meal | Pontotoc Cotton Oil Co., Pontotoc |
| 17890 | H. G. Cottonseed Meal | E. P. Donald & Sons, Philadelphia |
| 17929 | H. G. Cottonseed Meal | Henderson-Molphus Co., Philadelphia |
| 17930 | H. G. Cottonseed Meal | Mars Bros., Philadelphia |
| 17972 | H. G. Cottonseed Meal | Pontotoc Cotton Oil Co., Pontotoc |
| | PORT GIBSON OIL WORKS, Port Gibson, Miss. | |
| 17783 | S. G. Cottonseed Meal | Port Gibson Oil Works, Port Gibson .. |
| | PRODUCERS COTTON OIL CO., Yazoo City, Miss. | |
| 19146 | H. G. Cottonseed Meal | Hattiesburg Groc. Co., Hattiesburg |
| 19147 | H. G. Cottonseed Meal | J. K. Dunn, McComb |
| 19148 | H. G. Cottonseed Meal | G. B. Hall, Columbia |
| | REFUGE COTTON OIL CO., Columbus, Miss. | |
| 17830 | H. G. Cottonseed Meal | Refuge Cotton Oil Co., Columbus |
| | RICHMOND COTTON OIL CO., Corinth, Miss. | |
| 17825 | H. G. Cottonseed Meal | Richmond Cotton Oil Co., Corinth..... |
| 17974 | H. G. Cottonseed Meal | Houston Ice & Coal Co., Houston |
| | SHUBUTA OIL & M'F'G. CO., Shubuta, Miss. | |
| 17855 | H. G. Cottonseed Meal | D. K. Robeson, DeSoto |
| | SOUTHERN OIL & FERT. CO., Meridian, Miss. | |
| 17848 | H. G. Cottonseed Meal | J. L. Long, Agent, Meridian |
| 17903 | H. G. Cottonseed Meal | M. L. McRae & Co., Leakesville |

Collected by State Chemist, Season 1910-1911.

| Laboratory Number. | Moisture—Per Cent. | Nitrogen—Per Cent. Found. | Nitrogen—Per Cent. Guaranteed. | Ammonia—equivalent of Nitrogen—Found—Per Cent. | Ammonia—equivalent of Nitrogen—Guaranteed—Per Cent. | Value of Nitrogen Found—Per Ton. | Value of Nitrogen Guaranteed—Per Ton. |
|--------------------|--------------------|---------------------------|--------------------------------|--|---|----------------------------------|---------------------------------------|
| 17939 | 8.09 | 6.14 | 6.18 | 7.47 | 7.51 | 26.10 | 26.27 |
| 17998 | 7.68 | 6.11 | 6.18 | 7.43 | 7.51 | 25.97 | 26.27 |
| 17999 | 7.99 | 6.53 | 6.18 | 7.94 | 7.51 | 27.75 | 26.27 |
| 18001 | 8.22 | 6.05 | 6.18 | 7.36 | 7.51 | 25.71 | 26.27 |
| 18008 | 7.93 | 5.83 | 6.18 | 7.09 | 7.51 | 24.78 | 26.27 |
| 19145 | 9.21 | 5.67 | 6.18 | 6.89 | 7.51 | 24.10 | 26.27 |
| 17828 | 7.67 | 6.75 | 6.18 | 8.21 | 7.51 | 28.69 | 26.27 |
| 17839 | 7.82 | 7.38 | 6.18 | 8.97 | 7.51 | 31.37 | 26.27 |
| 17890 | 7.72 | 7.34 | 6.18 | 8.92 | 7.51 | 31.20 | 26.27 |
| 17929 | 8.81 | 7.35 | 6.18 | 8.94 | 7.51 | 31.24 | 26.27 |
| 17930 | 9.08 | 7.27 | 6.18 | 8.84 | 7.51 | 30.90 | 26.27 |
| 17972 | 8.47 | 7.37 | 6.18 | 8.96 | 7.51 | 31.32 | 26.27 |
| 17783 | 8.35 | 6.37 | 5.00 | 7.74 | 6.08 | 27.07 | 21.25 |
| 19146 | 9.64 | 5.94 | 6.18 | 7.22 | 7.51 | 25.25 | 26.27 |
| 19147 | 10.12 | 5.93 | 6.18 | 7.21 | 7.51 | 25.20 | 26.27 |
| 19148 | 9.06 | 5.77 | 6.18 | 7.02 | 7.51 | 24.52 | 26.27 |
| 17830 | 7.22 | 6.47 | 6.18 | 7.87 | 7.51 | 27.50 | 26.27 |
| 17825 | 8.06 | 6.49 | 6.18 | 7.89 | 7.51 | 27.58 | 26.27 |
| 17974 | 8.32 | 7.31 | 6.18 | 8.89 | 7.51 | 31.07 | 26.27 |
| 17855 | 6.04 | 7.36 | 6.18 | 8.95 | 7.51 | 31.28 | 26.27 |
| 17848 | 6.81 | 6.62 | 6.18 | 8.05 | 7.51 | 28.14 | 26.27 |
| 17903 | 7.49 | 6.85 | 6.18 | 8.33 | 7.51 | 29.11 | 26.27 |

TABLE I.—Analyses of Cottonseed Meal

| Laboratory Number. | Name of Brand and Manufacturer. | Where and from Whom Collected. |
|--------------------|--|--|
| | TATE BROTHERS, Memphis, Tenn. | |
| 17970 | H. G. Cottonseed Meal | C. L. Palmer, Blue Mountain |
| | TENNESSEE COTTON OIL CO., Jackson, Tenn. | |
| 17826 | H. G. Cottonseed Meal | L. L. Brown, Booneville |
| 17976 | H. G. Cottonseed Meal | L. L. Brown, Booneville |
| 17977 | H. G. Cottonseed Meal | Phillips, Reinhart, Taylor Co., B'n'v'le |
| | TENNESSEE COTTON OIL CO., Memphis, Tenn. | |
| 17827 | H. G. Cottonseed Meal | C. M. Elder, New Albany |
| | VICKSBURG COTTON OIL CO., Vicksburg, Miss. | |
| 17777 | H. G. Cottonseed Meal | D. L. Smith, Carriere |
| 17802 | H. G. Cottonseed Meal | Barnes & Co., Columbia..... |
| 17803 | H. G. Cottonseed Meal | Ball Merc. Co., Columbia |
| 17866 | H. G. Cottonseed Meal | Hicks Merc. Co., Laurel |
| | WESSON COTTON OIL & FER- TILIZER COMPANY, Wesson, Miss. | |
| 17959 | H. G. Cottonseed Meal | Wesson Cotton Oil & Fert. Co., Wesson |
| | WINONA OIL & M'FG. CO., Winona, Miss. | |
| 17832 | H. G. Cottonseed Meal | W. W. Sheffield, Maben..... |
| 17833 | H. G. Cottonseed Meal | Winona Oil & M'fg. Co., Winona..... |
| 17892 | H. G. Cottonseed Meal | The Fair Company, Louisville |

Collected by State Chemist, Season 1910-1911.

| Laboratory Number. | Moisture—Per Cent. | Nitrogen—Per Cent. Found. | Nitrogen—Per Cent. Guaranteed. | Ammonia—equivalent of Nitrogen—Found—Per Cent. | Ammonia—equivalent of Nitrogen—Guaranteed—Per Cent. | Value of Nitrogen Found—Per Ton. | Value of Nitrogen Guaranteed—Per Ton. |
|--------------------|--------------------|---------------------------|--------------------------------|--|---|----------------------------------|---------------------------------------|
| 17970 | 8.12 | 6.49 | 6.18 | 7.89 | 7.51 | 27.58 | 26.27 |
| 17826 | 8.52 | 6.27 | 6.18 | 7.62 | 7.51 | 26.65 | 26.27 |
| 17976 | 8.75 | 6.41 | 6.18 | 7.79 | 7.51 | 27.21 | 26.27 |
| 17977 | 9.22 | 6.32 | 6.18 | 7.68 | 7.51 | 26.86 | 26.27 |
| 17827 | 7.09 | 6.25 | 6.18 | 7.60 | 7.51 | 26.56 | 26.27 |
| 17777 | 7.38 | 6.20 | 6.18 | 7.54 | 7.51 | 26.35 | 26.27 |
| 17802 | 5.92 | 6.33 | 6.18 | 7.70 | 7.51 | 26.90 | 26.27 |
| 17803 | 6.12 | 6.49 | 6.18 | 7.89 | 7.51 | 27.58 | 26.27 |
| 17866 | 7.03 | 6.45 | 6.18 | 7.84 | 7.51 | 27.41 | 26.27 |
| 17959 | 7.37 | 6.97 | 6.18 | 8.47 | 7.51 | 29.62 | 26.27 |
| 17832 | 7.92 | 6.83 | 6.18 | 8.30 | 7.51 | 29.03 | 26.27 |
| 17833 | 6.56 | 7.07 | 6.18 | 8.60 | 7.51 | 30.05 | 26.27 |
| 17892 | 8.34 | 6.73 | 6.18 | 8.18 | 7.51 | 28.60 | 26.27 |