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Mississippi Agricultural Experiment Station.

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BULLETIN No. 91.

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INSPECTION AND ANALYSES
OF COMMERCIAL FERTILIZERS
ON SALE IN THE STATE.



CHEMICAL LABORATORY.

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AGRICULTURAL COLLEGE, MISS.,  
SEPTEMBER, 1905.

# MISSISSIPPI FERTILIZER CONTROL.



## INSPECTION AND ANALYSES OF FERTILIZERS

BY THE CHEMICAL DEPARTMENT OF THE

Mississippi Agricultural & Mechanical College



|                       |                    |
|-----------------------|--------------------|
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# INSPECTION AND ANALYSES OF COMMERCIAL FERTILIZERS

ON SALE IN THE STATE.

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**Introduction.**—The following tables of analyses summarize the results of the inspection of commercial fertilizers for the season of 1904-1905. This is the fourth publication of analyses of samples drawn during the season, and farmers and dealers have had an opportunity of keeping themselves accurately informed in regard to the composition of all goods placed on the Mississippi markets.

Inspectors are placed on the road as soon as fertilizers begin to move, and an active inspection is maintained throughout the business season. Every care is taken in drawing samples, that the analyses made and published from time to time may represent as accurately as possible the composition of the goods sold under the various brand names.

Purchasers and manufacturers receive copies of the analyses prior to their publication in the regular circulars issued by the Department. This procedure enables the dealer as well as the manufacturer to take prompt action whenever irregularities are brought to light by the analytical results.

**Results of the Inspection.**—A study of the tabulated results which follow in table II will bring out the facts that 8.77 per cent. of all samples analyzed during the season are below the guarantee of the manufacturer in one or more of the essential elements and also in the relative commercial value calculated from the analyses. It is gratifying to note, however, that the percentage of samples found deficient in the calculated values shows a decrease when compared with the results for the past two seasons. The following table will illustrate this:

|                           | Number of<br>Samples<br>Analyzed | Number<br>found below<br>guarantee in<br>Relative<br>Value | Percentage<br>found below<br>guarantee in<br>Relative<br>Value |
|---------------------------|----------------------------------|------------------------------------------------------------|----------------------------------------------------------------|
| Season of 1902-1903.....  | 262                              | 28                                                         | 10.68                                                          |
| Season of 1903-1904 ..... | 280                              | 42                                                         | 15.00                                                          |
| Season of 1904-1905 ..... | 399                              | 35                                                         | 8.77                                                           |

It should be stated that the deficiency shown by a few of the analyses is not very great, since we find only 5.26 per cent. of the samples analyzed as much as 3.00 per cent. below the manufacturer's guarantee in relative value.

For the convenience of those interested in the fertilizer trade, the general results of the inspections are summarized in table 1, and this condensed review of the analyses of samples of the various brands found on our markets is commended to the attention of those who intend to purchase goods during the coming season.

**Uniform Mixing.**—In view of the variation in composition of the raw material at the disposal of the fertilizer manufacturer, it is too much to expect all samples to exhibit an absolute uniformity when analyzed. It cannot be denied, however, that departures from the guaranteed analyses should be held within reasonably narrow limits. It would appear that it is practically always possible to preserve the essential nature of the brand. This has not been done in every case, though it may be remarked that most manufacturers do make an effort to mix their goods in accordance with the guarantees. In general, a deficiency in one ingredient of the mixture should be accompanied by a corresponding increase in another; but, as already stated, the specific character of the brand should be preserved always.

Table I will show that the average shortage in available phosphoric acid and in potash is not very great, yet we find that 16.29 per cent. of all samples are as much or more than 8.00 per cent. below the guarantee in nitrogen. It is not unfair, therefore, for farmers to expect an improvement in this respect during the next season, and it is hoped that this matter will receive from our manufacturers the careful attention which it deserves.

**Complete Fertilizers.**—It is well known that complete fertilizers are those carrying nitrogen, available phosphoric acid, and potash. The desire on the part of some to buy or to sell a so-called complete

fertilizer at a lower price than that asked for the standard brands has led to the manufacture of a grade of goods that contains a comparatively small percentage of nitrogen and potash. A mixture of this kind can be sold for a lower price, but it appears safe to say that it is a kind of false economy to buy them at all. **If a farmer needs a complete fertilizer, he should see that it is guaranteed to contain not less than 1.65 to 2.00 per cent. of nitrogen and also not less than that amount of potash. It is more economical to purchase an acid phosphate at once than to pay for the small amount of nitrogen and potash contained in the low grade fertilizer. The cost per pound of plant food in the high grade goods should be smaller than in the inferior mixtures.**

**Guaranteed Analyses and Analyses of Official Samples.**—All brands registered for sale in MISSISSIPPI during the season, together with the analyses of the official samples of them and also their guarantees, will be found in table III of this bulletin.

Every bag of fertilizer sold in this State should be plainly stamped as follows:

- (1) The name and grade of the brand.
- (2) Name and address of the manufacturer.
- (3) Guarantee of Water-soluble phosphoric acid.
- (4) Guarantee of Citrate-soluble (or reverted) phosphoric acid.
- (5) Guarantee of Available phosphoric acid.
- (6) Guarantee of Insoluble phosphoric acid.
- (7) Guarantee of Nitrogen.
- (8) Guarantee of Potash.

**Calculation of relative commercial values—schedule of prices.**—

The following schedule of prices is used in calculating relative commercial values for this season:

|                                                                      | per lb. | per unit. |
|----------------------------------------------------------------------|---------|-----------|
| For Nitrogen .....                                                   | 17½c    | \$3.50    |
| For Water-Soluble Phosphoric Acid in mixed goods ...                 | 6c      | 1.20      |
| For Citrate-Soluble Phosphoric Acid in mixed goods ...               | 5½c     | 1.10      |
| For Water-Soluble Phosphoric Acid in plain Acid<br>Phosphate .....   | 5½c     | 1.10      |
| For Citrate-Soluble Phosphoric Acid in plain Acid<br>Phosphate ..... | 5c      | 1.00      |
| For Total Phosphoric Acid in fine bone.....                          | 3c      | .60       |
| For Total Phosphoric Acid in medium and coarse bone                  | 2½c     | .50       |
| For Potash.....                                                      | 5c      | 1.00      |





|                                                        |     |       |      |       |      |      |       |
|--------------------------------------------------------|-----|-------|------|-------|------|------|-------|
| LAUREL OIL & FERTILIZER Co., Laurel, Miss.             | 18  | 6     | 2    | 1     | 0    | 1    | 17    |
| MERIDIAN FERTILIZER FACTORY, Meridian, Miss.           | 81  | 45    | 11   | 10    | 2    | 9    | 70    |
| NEW ORLEANS ACID & FERTILIZER Co., New Orleans, La.    | 26  | 20    | 0    | 3     | 0    | 0    | 26    |
| NEWTON OIL & M'f'g' Co., Newton, Miss.                 | 7   | 1     | 0    | 1     | 0    | 1    | 5     |
| PLANTERS' FERTILIZER & CHEMICAL Co., New Orleans, La.  | 9   | 3     | 0    | 3     | 0    | 0    | 9     |
| REFUGEE COTTON OIL Co., Columbus, Miss.                | 4   | 3     | 0    | 1     | 0    | 0    | 4     |
| SHUBUTA OIL & M'f'g. Co., Shubuta, Miss.               | 6   | 4     | 0    | 1     | 0    | 0    | 5     |
| SOUTHERN OIL & FERTILIZER Co., Meridian, Miss.         | 8   | 7     | 0    | 0     | 0    | 0    | 8     |
| STANDARD GUANO & CHEMICAL M'f'g. Co., New Orleans, La. | 51  | 19    | 3    | 15    | 2    | 1    | 47    |
| SWIFT FERTILIZER WORKS, Atlanta, Ga.                   | 6   | 4     | 0    | 1     | 0    | 0    | 6     |
| TENNESSEE CHEMICAL Co., Nashville, Tenn.               | 2   | 2     | 0    | 0     | 0    | 0    | 2     |
| TENNESSEE VALLEY FERTILIZER Co., Florence, Ala.        | 6   | 2     | 1    | 2     | 0    | 1    | 3     |
| Sold by THREEFOOT BROS. & Co., Meridian, Miss.         | 6   | 5     | 1    | 0     | 0    | 1    | 5     |
| VIRGINIA-CAROLINA CHEMICAL Co., Memphis, Tenn.         | 45  | 32    | 0    | 3     | 0    | 0    | 42    |
| WESSON COTTON OIL & FERTILIZER Co., Wesson, Miss.      | 2   | 1     | 0    | 0     | 0    | 0    | 2     |
| Totals                                                 | 399 | 214   | 26   | 65    | 5    | 21   | 364   |
| Percentages                                            |     | 53.63 | 6.51 | 16.29 | 1.25 | 5.26 | 91.23 |

TABLE II—Analyses of Commercial Fertilizer

| Laboratory Number. | Name of Brand and Manufacturer.                                | Where and From Whom Collected.                          |
|--------------------|----------------------------------------------------------------|---------------------------------------------------------|
|                    | ALABAMA CHEMICAL CO.,<br>Montgomery, Ala.                      |                                                         |
| 4364               | H. G. Rex Dissolved Bone ..                                    | W. J. Hubbard, Shuqualak.....<br>Guarantee.....         |
| 4363               | S. G. Big Boll Guano .....                                     | W. J. Hubbard, Shuqualak.....                           |
| 4558               | S. G. Big Boll Guano .....                                     | M. H. Clayton & Co., Heidelberg.....                    |
| 4559               | S. G. Big Boll Guano .....                                     | T. D. Rees & Co., Booneville.....<br>Average .....      |
|                    |                                                                | Guarantee.....                                          |
|                    | AMERICAN GUANO CO.,<br>Nashville, Tenn.                        |                                                         |
| 4378               | S. G. Mule Brand Bourland's<br>Cotton Grower .....             | W. L. Bourland, Amory .....                             |
|                    |                                                                | Guarantee.....                                          |
| 4242               | S. G. Mule Brand Cotton,<br>Corn, and Wheat Guano....          | W. A. Turner & Co., Forest.....                         |
| 4560               | S. G. Mule Brand Cotton,<br>Corn, and Wheat Guano ....         | M. E. Philips & Co., Eupora .....                       |
|                    |                                                                | Average .....                                           |
|                    |                                                                | Guarantee.....                                          |
| 4137               | S. G. Mule Brand Gaston's<br>Choice .....                      | A. J. Gaston, Ackerman.....<br>Guarantee.....           |
|                    | ARMOUR FERTIL'ER WORKS,<br>Atlanta, Ga.                        |                                                         |
| 4289               | Shield Brand S. G. King Cot.                                   | Lott Bros., Seminary .....                              |
| 4561               | Shield Brand S. G. King Cot.                                   | Ridgeland Gin & Supply Co., Ridgeland<br>Average .....  |
|                    |                                                                | Guarantee.....                                          |
|                    | B'MINGHAM FERTILIZER CO.,<br>Birmingham, Ala.                  |                                                         |
| 4379               | Birmingham S. G. Fertilizer                                    | Gilmore, May & Co., Amory.....                          |
| 4562               | Birmingham S. G. Fertilizer                                    | J. A. Taylor & Son, Pelahatchie.....<br>Average .....   |
|                    |                                                                | Guarantee.....                                          |
|                    | Sold by BLUMENFELD & FRIED<br>Ackerman, Miss.                  |                                                         |
| 4380               | S. G. Blumenfeld & Fried's<br>Own Mixture.....                 | Blumenfeld & Fried, Ackerman .....                      |
|                    |                                                                | Guarantee.....                                          |
|                    | BROOKHAVEN PROGRESSIVE<br>COTTON OIL CO.,<br>Brookhaven, Miss. |                                                         |
| 4563               | H. G. B'haven Special Mix. ..                                  | Louis Cohn & Bros., Brookhaven.....                     |
| 4564               | H. G. B'haven Special Mix. ..                                  | Louis Cohn & Bros., Brookhaven.....<br>Average .....    |
|                    |                                                                | Guarantee .....                                         |
| 4565               | H. G. Hutchison's Formula                                      | A. L. Hutchison & Co., Crystal Springs                  |
| 4566               | H. G. Hutchison's Formula                                      | A. L. Hutchison & Co., Crystal Springs<br>Average ..... |
|                    |                                                                | Guarantee.....                                          |

| Laboratory Number. | Moisture—Per Cent. | Phosphoric Acid.        |                           |                       |                     | Nitrogen—Per Cent.  | Potash—Per Cent.    | Relative Value Per Ton. |
|--------------------|--------------------|-------------------------|---------------------------|-----------------------|---------------------|---------------------|---------------------|-------------------------|
|                    |                    | Water Soluble Per Cent. | Citrate Soluble Per Cent. | Available Per Cent.   | Insoluble Per Cent. |                     |                     |                         |
| 4364               | 10.78              | 11.47<br><i>11.00</i>   | 2.22<br><i>3.00</i>       | 13.69<br><i>14.00</i> | 1.41<br><i>2.00</i> |                     |                     | 14.84<br><i>15.10</i>   |
| 4363               | 11.87              | 7.93                    | 2.03                      | 9.96                  | 1.09                | 1.08                | 3.34                | 18.87                   |
| 4558               | 13.45              | 7.90                    | 2.97                      | 10.87                 | .49                 | .92                 | 3.37                | 19.34                   |
| 4559               | 14.35              | 8.29                    | 2.78                      | 11.07                 | .51                 | .69                 | 3.34                | 18.76                   |
|                    | <b>13.22</b>       | <b>8.04</b>             | <b>2.59</b>               | <b>10.63</b>          | <b>.69</b>          | <b>.90</b>          | <b>3.35</b>         | <b>18.99</b>            |
|                    |                    | <i>8.00</i>             | <i>2.00</i>               | <i>10.00</i>          | <i>2.00</i>         | <i>.82</i>          | <i>3.00</i>         | <i>17.67</i>            |
| 4378               | 11.36              | 7.29<br><i>5.00</i>     | 2.58<br><i>3.00</i>       | 9.87<br><i>8.00</i>   | 2.11<br><i>1.00</i> | 1.76<br><i>1.65</i> | 3.89<br><i>3.00</i> | 21.64<br><i>18.07</i>   |
| 4242               | 12.40              | 4.84                    | 3.41                      | 8.25                  | 2.87                | 1.51                | 2.98                | 17.82                   |
| 4560               | 12.07              | 6.35                    | 3.11                      | 9.46                  | 2.06                | 1.45                | 2.60                | 18.72                   |
|                    | <b>12.23</b>       | <b>5.60</b>             | <b>3.25</b>               | <b>8.86</b>           | <b>2.47</b>         | <b>1.48</b>         | <b>2.78</b>         | <b>18.27</b>            |
|                    |                    | <i>5.00</i>             | <i>3.00</i>               | <i>8.00</i>           | <i>1.00</i>         | <i>1.65</i>         | <i>2.00</i>         | <i>17.07</i>            |
| 4137               | 11.12              | 3.86<br><i>5.00</i>     | 4.01<br><i>3.00</i>       | 7.87<br><i>8.00</i>   | 2.31<br><i>1.00</i> | 1.69<br><i>1.65</i> | 2.86<br><i>2.00</i> | 17.82<br><i>17.07</i>   |
| 4289               | 10.77              | 5.17                    | 3.81                      | 8.98                  | 4.02                | 1.50                | 1.67                | 17.32                   |
| 4561               | 11.05              | 6.20                    | 3.61                      | 9.81                  | .81                 | 1.73                | 2.39                | 19.86                   |
|                    | <b>10.91</b>       | <b>5.68</b>             | <b>3.71</b>               | <b>9.39</b>           | <b>2.41</b>         | <b>1.62</b>         | <b>2.03</b>         | <b>18.59</b>            |
|                    |                    | <i>7.00</i>             | <i>1.00</i>               | <i>8.00</i>           | <i>1.00</i>         | <i>1.65</i>         | <i>2.00</i>         | <i>17.28</i>            |
| 4379               | 11.08              | 8.29                    | 3.81                      | 12.10                 | 1.39                | 1.49                | 3.09                | 22.44                   |
| 4562               | 11.85              | 8.29                    | 1.72                      | 10.01                 | 1.57                | 1.49                | 2.29                | 19.35                   |
|                    | <b>11.46</b>       | <b>8.29</b>             | <b>2.77</b>               | <b>11.06</b>          | <b>1.48</b>         | <b>1.49</b>         | <b>2.69</b>         | <b>20.90</b>            |
|                    |                    | <i>6.00</i>             | <i>2.00</i>               | <i>8.00</i>           | <i>2.00</i>         | <i>1.64</i>         | <i>2.00</i>         | <i>17.14</i>            |
| 4380               | 13.44              | 5.42<br><i>8.00</i>     | 2.78<br><i>1.50</i>       | 8.20<br><i>9.50</i>   | .97<br><i>1.00</i>  | 1.77<br><i>1.64</i> | 1.71<br><i>1.50</i> | 17.47<br><i>18.49</i>   |
| 4563               | 12.31              | 8.12                    | 2.23                      | 10.35                 | 1.04                | 1.40                | 3.00                | 20.10                   |
| 4564               | 10.75              | 5.85                    | 4.38                      | 10.23                 | .79                 | 1.56                | 3.10                | 20.40                   |
|                    | <b>11.53</b>       | <b>6.98</b>             | <b>3.31</b>               | <b>10.29</b>          | <b>.91</b>          | <b>1.48</b>         | <b>3.05</b>         | <b>20.25</b>            |
|                    |                    | <i>7.00</i>             | <i>3.00</i>               | <i>10.00</i>          | <i>1.00</i>         | <i>1.65</i>         | <i>2.00</i>         | <i>19.48</i>            |
| 4565               | 7.51               | 4.43                    | 2.86                      | 7.29                  | .86                 | 2.92                | 5.07                | 23.75                   |
| 4566               | 6.59               | 4.11                    | 3.26                      | 7.37                  | .59                 | 3.02                | 5.15                | 24.24                   |
|                    | <b>7.05</b>        | <b>4.27</b>             | <b>3.06</b>               | <b>7.33</b>           | <b>.72</b>          | <b>2.97</b>         | <b>5.11</b>         | <b>24.00</b>            |
|                    |                    | <i>5.00</i>             | <i>2.00</i>               | <i>7.00</i>           | <i>1.00</i>         | <i>3.00</i>         | <i>4.00</i>         | <i>22.70</i>            |

| Laboratory Number. | Name of Brand and Manufacturer.                                           | Where and From Whom Collected.          |
|--------------------|---------------------------------------------------------------------------|-----------------------------------------|
| 4138               | S. G. New South .....                                                     | Louis Cohn & Bros., Brookhaven.....     |
| 4243               | S. G. New South .....                                                     | Louis Cohn & Bros., Brookhaven.....     |
|                    |                                                                           | Average .....                           |
|                    |                                                                           | Guarantee.....                          |
|                    | CAPITAL FER'T. & MFG. CO.,<br>Jackson, Miss.                              |                                         |
| 4381               | H. G. Acid Phosphate.....                                                 | J. W. Ray, Canton .....                 |
| 4569               | H. G. Acid Phosphate.....                                                 | W. C. Wilkinson & Co., Crystal Springs  |
|                    |                                                                           | Average .....                           |
|                    |                                                                           | Guarantee.....                          |
| 4139               | S. G. Acid Phosphate .....                                                | Kelly & Wood, Kosciusko .....           |
| 4290               | S. G. Acid Phosphate .....                                                | R. C. Cooper, Morton.....               |
| 4478               | S. G. Acid Phosphate .....                                                | T. S. Turner, Canton.....               |
| 4567               | S. G. Acid Phosphate .....                                                | J. L. Moyse & Bro., Summit.....         |
| 4568               | S. G. Acid Phosphate .....                                                | W. C. Ellis Mercantile Co., Hebron...   |
|                    |                                                                           | Average .....                           |
|                    |                                                                           | Guarantee.....                          |
| 4382               | S. G. Cotton Elevator .....                                               | W. W. Loftis, Steenston.....            |
| 4570               | S. G. Cotton Elevator .....                                               | L. C. Philips, Eupora.....              |
|                    |                                                                           | Average .....                           |
|                    |                                                                           | Guarantee.....                          |
| 4291               | S. G. Mississippi Guano .....                                             | Capital Fert. & M'fg. Co., Jackson..... |
|                    |                                                                           | Guarantee.....                          |
| 4140               | S. G. Nonpariel .....                                                     | Kelly & Wood, Kosciusko.....            |
| 4244               | S. G. Nonpariel .....                                                     | McComb City Mer. Co., McComb City       |
| 4292               | S. G. Nonpariel .....                                                     | R. C. Cooper, Morton.....               |
| 4329               | S. G. Nonpariel .....                                                     | Fountain-Mimms Co., Ellisville.....     |
| 4383               | S. G. Nonpariel .....                                                     | Kelly & Wood, Kosciusko.....            |
| 4543               | S. G. Nonpariel .....                                                     | C. G. Miller, Natchez.....              |
| 4571               | S. G. Nonpariel .....                                                     | W. H. Gallaspy, Hickory.....            |
| 4572               | S. G. Nonpariel .....                                                     | Lann & Carter H'd'w. Co., Aberdeen      |
| 4573               | S. G. Nonpariel .....                                                     | Gayden & Co., Brandon.....              |
|                    |                                                                           | Average .....                           |
|                    |                                                                           | Guarantee.....                          |
| 4141               | S. G. Red Star Brand .....                                                | J. W. Ray, Canton.....                  |
| 4172               | S. G. Red Star Brand .....                                                | S. Alcus, Summit.....                   |
| 4574               | S. G. Red Star Brand .....                                                | W. P. Mangum, Braxton.....              |
|                    |                                                                           | Average .....                           |
|                    |                                                                           | Guarantee.....                          |
| 4293               | H. G. Vegetable Grower .....                                              | A. L. Hutchison & Co., Crystal Springs  |
| 4575               | H. G. Vegetable Grower .....                                              | Kemp & Abrams, Hazlehurst .....         |
|                    |                                                                           | Average .....                           |
|                    |                                                                           | Guarantee.....                          |
|                    | CONTINENTAL FERTIL'ER CO.,<br>Nashville, Tenn.                            |                                         |
| 4384               | S.G.Sunny South Acid Phos.                                                | Myers & Mehaffy, Steenston .....        |
|                    |                                                                           | Guarantee.....                          |
|                    | CRYSTAL SPRINGS OIL MILL<br>FERT. & M'F'G. CO.,<br>Crystal Springs, Miss. |                                         |
| 4245               | S. G. Crystal Star .....                                                  | Lotterhos & Huber, Crystal Springs...   |

| Laboratory Number. | Moisture—Per Cent. | Phosphoric Acid.        |                           |                     |                     | Nitrogen—Per Cent. | Potash—Per Cent. | Relative Value Per Ton. |
|--------------------|--------------------|-------------------------|---------------------------|---------------------|---------------------|--------------------|------------------|-------------------------|
|                    |                    | Water Soluble Per Cent. | Citrate Soluble Per Cent. | Available Per Cent. | Insoluble Per Cent. |                    |                  |                         |
| 4138               | 9.73               | 7.56                    | 3.57                      | 11.13               | 1.56                | 1.71               | 2.02             | 21.00                   |
| 4243               | 8.64               | 7.91                    | 2.70                      | 10.61               | 1.30                | 1.76               | 3.07             | 21.69                   |
|                    | <b>9.18</b>        | <b>7.74</b>             | <b>3.13</b>               | <b>10.87</b>        | <b>1.43</b>         | <b>1.74</b>        | <b>2.54</b>      | <b>21.35</b>            |
|                    |                    | 7.00                    | 2.00                      | 9.00                | 1.00                | 1.65               | 1.80             | 18.18                   |
| 4381               | 12.77              | 11.69                   | 2.69                      | 14.38               | 1.11                |                    |                  | 15.55                   |
| 4569               | 13.24              | 10.53                   | 3.84                      | 14.37               | 1.07                |                    |                  | 15.42                   |
|                    | <b>13.00</b>       | <b>11.11</b>            | <b>3.27</b>               | <b>14.38</b>        | <b>1.09</b>         |                    |                  | <b>15.49</b>            |
|                    |                    | 10.00                   | 4.00                      | 14.00               | 1.00                |                    |                  | 15.00                   |
| 4139               | 13.71              | 10.90                   | 3.82                      | 14.72               | 1.82                |                    |                  | 15.81                   |
| 4290               | 12.42              | 9.45                    | 3.74                      | 13.19               | 1.15                |                    |                  | 14.14                   |
| 4478               | 12.42              | 10.16                   | 2.85                      | 13.01               | 1.69                |                    |                  | 14.03                   |
| 4567               | 12.10              | 10.32                   | 3.83                      | 14.15               | 1.19                |                    |                  | 15.18                   |
| 4568               | 12.82              | 10.76                   | 3.40                      | 14.16               | 1.10                |                    |                  | 15.24                   |
|                    | <b>13.69</b>       | <b>10.32</b>            | <b>3.53</b>               | <b>13.85</b>        | <b>1.39</b>         |                    |                  | <b>14.88</b>            |
|                    |                    | 10.00                   | 2.00                      | 12.00               | 1.00                |                    |                  | 13.00                   |
| 4382               | 11.07              | 7.10                    | 2.64                      | 9.74                | .78                 | 1.44               | 2.68             | 19.14                   |
| 4570               | 12.74              | 6.56                    | 2.80                      | 9.36                | 1.07                | 1.37               | 2.70             | 18.45                   |
|                    | <b>11.90</b>       | <b>6.83</b>             | <b>2.72</b>               | <b>9.55</b>         | <b>.92</b>          | <b>1.41</b>        | <b>2.69</b>      | <b>18.80</b>            |
|                    |                    | 6.50                    | 1.50                      | 8.00                | 1.00                | 1.65               | 2.00             | 17.23                   |
| 4291               | 11.29              | 7.18                    | 2.53                      | 9.71                | .55                 | 1.66               | 2.58             | 19.79                   |
|                    |                    | 6.50                    | 1.50                      | 8.00                | 1.00                | 1.65               | 2.00             | 17.23                   |
| 4140               | 10.80              | 6.90                    | 2.44                      | 9.34                | 1.26                | 1.62               | 2.39             | 19.02                   |
| 4244               | 9.24               | 6.90                    | 2.62                      | 9.52                | 1.36                | 1.61               | 2.84             | 19.64                   |
| 4292               | 10.95              | 6.68                    | 2.58                      | 9.26                | 1.05                | 1.67               | 2.51             | 19.21                   |
| 4329               | 10.55              | 6.82                    | 2.34                      | 9.16                | .70                 | 1.86               | 2.80             | 20.07                   |
| 4383               | 12.22              | 6.50                    | 2.55                      | 9.05                | 1.09                | 1.58               | 2.70             | 18.84                   |
| 4543               | 10.54              | 7.00                    | 2.46                      | 9.46                | .82                 | 1.54               | 2.36             | 18.86                   |
| 4571               | 11.83              | 6.60                    | 3.01                      | 9.61                | .82                 | 1.32               | 2.66             | 18.51                   |
| 4572               | 11.39              | 6.73                    | 3.09                      | 9.82                | .74                 | 1.48               | 2.64             | 19.30                   |
| 4573               | 11.23              | 7.11                    | 2.93                      | 10.04               | .77                 | 1.45               | 2.74             | 19.57                   |
|                    | <b>10.97</b>       | <b>6.80</b>             | <b>2.67</b>               | <b>9.47</b>         | <b>.96</b>          | <b>1.57</b>        | <b>2.63</b>      | <b>19.22</b>            |
|                    |                    | 6.50                    | 1.50                      | 8.00                | 1.00                | 1.65               | 2.00             | 17.23                   |
| 4141               | 10.93              | 7.21                    | 2.44                      | 9.65                | 1.25                | 1.49               | 2.25             | 18.80                   |
| 4172               | 11.27              | 7.18                    | 2.49                      | 9.67                | 1.22                | 1.68               | 2.51             | 19.75                   |
| 4574               | 11.22              | 7.70                    | 2.50                      | 10.20               | .47                 | 1.60               | 2.85             | 20.44                   |
|                    | <b>11.14</b>       | <b>7.36</b>             | <b>2.47</b>               | <b>9.84</b>         | <b>.98</b>          | <b>1.59</b>        | <b>2.54</b>      | <b>19.66</b>            |
|                    |                    | 6.50                    | 1.50                      | 8.00                | 1.00                | 1.65               | 2.00             | 17.23                   |
| 4293               | 9.02               | 5.13                    | 2.40                      | 7.53                | .60                 | 2.66               | 5.55             | 23.66                   |
| 4575               | 9.94               | 5.92                    | 2.73                      | 8.65                | .38                 | 2.06               | 6.46             | 23.78                   |
|                    | <b>9.48</b>        | <b>5.53</b>             | <b>2.56</b>               | <b>8.09</b>         | <b>.49</b>          | <b>2.36</b>        | <b>6.00</b>      | <b>23.72</b>            |
|                    |                    | 5.00                    | 2.00                      | 7.00                | 1.00                | 2.50               | 4.00             | 20.95                   |
| 4384               | 12.98              | 9.38                    | 4.13                      | 13.51               | .54                 |                    |                  | 14.45                   |
|                    |                    | 8.00                    | 5.00                      | 13.00               | 1.00                |                    |                  | 13.80                   |
| 4245               | 10.99              | 7.04                    | 3.66                      | 10.70               | .38                 | 1.95               | 2.86             | 22.16                   |

TABLE II—Analyses of Commercial Fertilizer

| Laboratory Number. | Name of Brand and Manufacturer.                                | Where and From Whom Collected.                          |
|--------------------|----------------------------------------------------------------|---------------------------------------------------------|
| 4576               | S. G. Crystal Star .....                                       | Alford & Miller, Gallman.....                           |
| 4577               | S. G. Crystal Star .....                                       | Lotterhos & Huber, Crystal Springs...<br>Average .....  |
|                    |                                                                | Guarantee.....                                          |
| 4385               | S. G. Lotterhos & Huber's<br>Cotton Fertilizer .....           | Lotterhos & Huber, Crystal Springs...                   |
| 4578               | S. G. Lotterhos & Huber's<br>Cotton Fertilizer .....           | Lotterhos & Huber, Crystal Springs...<br>Average .....  |
|                    |                                                                | Guarantee.....                                          |
| 4386               | H. G. L. & H.'s Veg. Fert.....                                 | Lotterhos & Huber, Crystal Springs...<br>Guarantee..... |
| 4579               | H. G. Crystal Veg. Grower....                                  | Alford & Miller, Gallman.....<br>Guarantee.....         |
|                    | EAGLE COTTON OIL CO.,<br>Meridian, Miss.                       |                                                         |
| 4516               | Eagle H. G. Acid Phosphate                                     | McLeod & Co., Purvis .....                              |
| 4538               | Eagle H. G. Acid Phosphate                                     | R. W. Fagan & Co., Waynesboro.....                      |
| 4539               | Eagle H. G. Acid Phosphate                                     | Davis & Buffkin, Buckatunna.....<br>Average .....       |
|                    |                                                                | Guarantee.....                                          |
| 4294               | S. G. Farm Mixture.....                                        | Howie Bros., Morton.....                                |
| 4580               | S. G. Farm Mixture.....                                        | C. T. Bonney, Enterprise.....                           |
| 4581               | S. G. Farm Mixture.....                                        | J. N. Shirley, DeSoto.....<br>Average .....             |
|                    |                                                                | Guarantee.....                                          |
|                    | FEDERAL CHEMICAL CO.,<br>Louisville, Ky.                       |                                                         |
|                    | MARKS & GAYLE, Div. M'grs.<br>Montgomery, Ala.                 |                                                         |
| 4246               | Daybreak H. G. Acid Phos....                                   | W. A. Turner & Co., Forest.....<br>Guarantee.....       |
| 4476               | Daybreak H. G. Acid Phos-<br>phate No. 2.....                  | H. A. James, Heidelberg .....                           |
|                    |                                                                | Guarantee.....                                          |
| 4247               | S. G. Daybreak Fertilizer ....                                 | W. A. Turner & Co., Forest.....                         |
| 4582               | S. G. Daybreak Fertilizer ....                                 | L. M. Philips & Co., Booneville.....                    |
| 4583               | S. G. Daybreak Fertilizer ....                                 | J. K. Kirkland, Quitman.....<br>Average .....           |
|                    |                                                                | Guarantee.....                                          |
|                    | GULFPORT COTTON OIL,<br>FERT. & M'F'G. CO.,<br>Gulfport, Miss. |                                                         |
| 4477               | H. G. Primo Acid Phos .....                                    | T. S. Turner, Canton .....                              |
| 4584               | H. G. Primo Acid Phos .....                                    | N. R. Hosey, Soso.....                                  |
| 4585               | H. G. Primo Acid Phos .....                                    | W. Atkinson & Bacot Co., Osyka.....<br>Average .....    |
|                    |                                                                | Guarantee.....                                          |
| 4330               | S. G. Primo Cottonseed Meal<br>Compound.....                   | Williams Bros., Sumrall .....                           |

| Laboratory Number. | Moisture—Per Cent. | Phosphoric Acid.           |                              |                        |                        | Nitrogen—Per Cent. | Potash—Per Cent. | Relative Value<br>Per Ton. |
|--------------------|--------------------|----------------------------|------------------------------|------------------------|------------------------|--------------------|------------------|----------------------------|
|                    |                    | Water Soluble<br>Per Cent. | Citrate Soluble<br>Per Cent. | Available<br>Per Cent. | Insoluble<br>Per Cent. |                    |                  |                            |
| 4576               | 13.64              | 6.21                       | 2.42                         | 8.63                   | .90                    | 1.76               | 3.78             | 20.05                      |
| 4577               | 9.59               | 6.55                       | 3.14                         | 9.69                   | .88                    | 1.96               | 3.48             | 21.65                      |
|                    | <b>11.41</b>       | <b>6.60</b>                | <b>3.07</b>                  | <b>9.67</b>            | <b>.72</b>             | <b>1.89</b>        | <b>3.37</b>      | <b>21.26</b>               |
|                    |                    | 7.00                       | 2.50                         | 9.50                   | 1.00                   | 1.70               | 1.90             | 19.00                      |
| 4385               | 10.64              | 5.32                       | 2.91                         | 8.23                   | .99                    | 2.07               | 3.15             | 19.98                      |
| 4578               | 11.31              | 6.75                       | 2.42                         | 9.17                   | .52                    | 1.79               | 3.32             | 20.35                      |
|                    | <b>10.97</b>       | <b>6.04</b>                | <b>2.66</b>                  | <b>8.70</b>            | <b>.75</b>             | <b>1.93</b>        | <b>3.24</b>      | <b>20.17</b>               |
|                    |                    | 6.50                       | 1.50                         | 8.00                   | .50                    | 1.75               | 2.00             | 17.58                      |
| 4386               | 8.35               | 4.55                       | 2.91                         | 7.46                   | .68                    | 3.21               | 6.32             | 26.22                      |
|                    |                    | 4.00                       | 1.00                         | 5.00                   | .60                    | 3.00               | 5.00             | 21.40                      |
| 4579               | 9.90               | 4.32                       | 2.94                         | 7.26                   | .38                    | 2.79               | 5.39             | 23.57                      |
|                    |                    | 3.00                       | 3.00                         | 6.00                   | 1.00                   | 3.00               | 4.00             | 21.40                      |
| 4516               | 12.39              | 12.28                      | 1.16                         | 13.44                  | 1.74                   |                    |                  | 14.67                      |
| 4538               | 12.17              | 10.21                      | 2.59                         | 12.80                  | 2.15                   |                    |                  | 13.82                      |
| 4539               | 12.87              | 11.45                      | 3.53                         | 14.98                  | .94                    |                    |                  | 16.13                      |
|                    | <b>12.47</b>       | <b>11.31</b>               | <b>2.43</b>                  | <b>13.74</b>           | <b>1.61</b>            |                    |                  | <b>14.87</b>               |
|                    |                    | 11.50                      | 2.50                         | 14.00                  | 1.50                   |                    |                  | 15.15                      |
| 4294               | 11.43              | 6.51                       | 2.70                         | 9.21                   | .50                    | 1.50               | 2.52             | 18.55                      |
| 4580               | 10.94              | 5.69                       | 2.03                         | 7.72                   | .60                    | 2.02               | 3.54             | 19.67                      |
| 4581               | 11.43              | 6.06                       | 2.89                         | 8.95                   | .73                    | 1.67               | 2.41             | 18.71                      |
|                    | <b>11.26</b>       | <b>6.09</b>                | <b>2.54</b>                  | <b>8.63</b>            | <b>.61</b>             | <b>1.73</b>        | <b>2.82</b>      | <b>18.98</b>               |
|                    |                    | 6.00                       | 2.00                         | 8.00                   | 1.00                   | 1.65               | 2.00             | 17.18                      |
| 4246               | 11.59              | 10.78                      | 3.65                         | 14.43                  | .69                    |                    |                  | 15.51                      |
|                    |                    | 10.00                      | 4.00                         | 14.00                  | 1.00                   |                    |                  | 15.00                      |
| 4476               | 14.47              | 12.14                      | 5.48                         | 17.62                  | .50                    |                    |                  | 18.49                      |
|                    |                    | 10.67                      | 5.33                         | 16.00                  | 1.00                   |                    |                  | 17.07                      |
| 4247               | 11.26              | 5.54                       | 3.54                         | 9.08                   | .46                    | 1.93               | 2.26             | 19.56                      |
| 4582               | 8.04               | 5.34                       | 2.60                         | 7.94                   | 1.64                   | 1.60               | 2.53             | 17.40                      |
| 4583               | 7.44               | 4.89                       | 3.48                         | 8.37                   | 2.46                   | 1.60               | 2.79             | 18.09                      |
|                    | <b>8.91</b>        | <b>5.26</b>                | <b>3.21</b>                  | <b>8.47</b>            | <b>1.52</b>            | <b>1.71</b>        | <b>2.53</b>      | <b>18.35</b>               |
|                    |                    | 5.33                       | 2.67                         | 8.00                   | 1.00                   | 1.65               | 2.00             | 17.11                      |
| 4477               | 14.20              | 10.27                      | 4.92                         | 15.19                  | .78                    |                    |                  | 16.22                      |
| 4584               | 13.32              | 9.08                       | 6.20                         | 15.28                  | .48                    |                    |                  | 16.19                      |
| 4585               | 14.06              | 9.82                       | 5.20                         | 15.02                  | .92                    |                    |                  | 16.00                      |
|                    | <b>13.86</b>       | <b>9.73</b>                | <b>5.44</b>                  | <b>15.17</b>           | <b>.72</b>             |                    |                  | <b>16.14</b>               |
|                    |                    | 14.00                      | 2.00                         | 16.00                  | 1.00                   |                    |                  | 17.40                      |
| 4330               | 9.75               | 5.26                       | 3.21                         | 8.47                   | .55                    | 1.68               | 2.56             | 18.28                      |

TABLE II—Analyses of Commercial Fertilizer

| Laboratory Number. | Name of Brand and Manufacturer.                         | Where and From Whom Collected.                                          |
|--------------------|---------------------------------------------------------|-------------------------------------------------------------------------|
| 4586               | S. G. Primo Cottonseed Meal Compound.....               | A. K. Kennedy, Weathersby.....                                          |
| 4587               | S. G. Primo Cottonseed Meal Compound.....               | M. H. Clayton & Co., Heidelberg.....<br>Average .....<br>Guarantee..... |
|                    | HAZLEHURST OIL MILL & FERTILIZER CO., Hazlehurst, Miss. |                                                                         |
| 4143               | H. G. Acid Phosphate.....                               | Hazlehurst Oil Mill & Fert. Co., H'hurst                                |
| 4248               | H. G. Acid Phosphate.....                               | J. R. Gillaspy, Crystal Springs.....                                    |
| 4588               | H. G. Acid Phosphate.....                               | Pickens Cotton Oil Co., Pickens.....<br>Average .....<br>Guarantee..... |
| 4249               | S. G. Imperial Fertilizer .....                         | J. R. Gillaspy, Crystal Springs.....                                    |
| 4589               | S. G. Imperial Fertilizer .....                         | W. L. Robinson & Co., Liberty.....                                      |
| 4590               | S. G. Imperial Fertilizer .....                         | Hyman Mercantile Co., Summit.....<br>Average .....<br>Guarantee.....    |
| 4387               | H. G. Imp. Veg. Grower.....                             | J. R. Gillaspy, Crystal Springs.....                                    |
| 4591               | H. G. Imp. Veg. Grower.....                             | J. C. Harvey, Gallman.....<br>Average .....<br>Guarantee.....           |
| 4144               | S. G. German Kainit .....                               | H'hurst Oil Mill & Fert. Co., Hazlehurst                                |
| 4592               | S. G. German Kainit .....                               | W. L. Robinson & Co., Liberty.....<br>Average .....<br>Guarantee.....   |
|                    | JACKSON FERTILIZER CO., Jackson, Miss.                  |                                                                         |
| 4250               | H. G. Acid Phosphate.....                               | Lotterhos & Huber, Crystal Springs....                                  |
| 4331               | H. G. Acid Phosphate.....                               | F. L. Riley Mercantile Co., New Hebron                                  |
| 4388               | H. G. Acid Phosphate.....                               | The Mississippi Co., Canton.....                                        |
| 4593               | H. G. Acid Phosphate.....                               | I. N. Varnado, Osyka.....                                               |
| 4594               | H. G. Acid Phosphate.....                               | T. M. Heidelberg & Son, Heidelberg....                                  |
| 4595               | H. G. Acid Phosphate.....                               | Johnson & Woodward, Mt. Olive.....<br>Average .....<br>Guarantee.....   |
| 4295               | S. G. Black Hawk Acid Phos.....                         | J. A. Spann & Co., Pelahatchie .....                                    |
| 4596               | S. G. Black Hawk Acid Phos..                            | The Lampton Mer. Co., Magnolia .....                                    |
| 4597               | S. G. Black Hawk Acid Phos..                            | E. M. Carter & Co., Centerville .....                                   |
| 4598               | S. G. Black Hawk Acid Phos..                            | Buckley Bros., Enterprise .....                                         |
|                    |                                                         | Average .....<br>Guarantee.....                                         |
| 4599               | S. G. Chicago R. B. Superphosphate .....                | F. L. Riley Mer. Co., Hebron.....                                       |
| 4600               | S. G. Chicago R. B. Superphosphate .....                | J. W. Grantham & Co., Terry.....<br>Average .....<br>Guarantee.....     |
| 4261               | S. G. Lampton's Am. R. B. Superphosphate .....          | The Lampton Co., Columbia.....                                          |



| Laboratory Number. | Moisture—Per Cent. | Phosphoric Acid.        |                           |                     |                     | Nitrogen—Per Cent. | Potash—Per Cent. | Relative Value Per Ton. |
|--------------------|--------------------|-------------------------|---------------------------|---------------------|---------------------|--------------------|------------------|-------------------------|
|                    |                    | Water Soluble Per Cent. | Citrate Soluble Per Cent. | Available Per Cent. | Insoluble Per Cent. |                    |                  |                         |
| 4586               | 9.17               | 4.87                    | 2.28                      | 7.15                | .36                 | 1.48               | 2.84             | 16.37                   |
| 4587               | 9.59               | 5.48                    | 2.99                      | 8.47                | .29                 | 1.33               | 2.62             | 17.14                   |
|                    | <b>9.50</b>        | <b>5.20</b>             | <b>2.83</b>               | <b>8.03</b>         | <b>.60</b>          | <b>1.53</b>        | <b>2.67</b>      | <b>17.27</b>            |
|                    |                    | 6.00                    | 2.00                      | 8.00                | 1.00                | 1.65               | 2.00             | 17.18                   |
| 4143               | 11.73              | 11.85                   | 4.11                      | 15.96               | 2.56                |                    |                  | 17.15                   |
| 4248               | 13.48              | 11.83                   | 4.85                      | 16.68               | .69                 |                    |                  | 17.86                   |
| 4588               | 11.45              | 12.50                   | 2.12                      | 14.62               | 1.23                |                    |                  | 15.87                   |
|                    | <b>13.33</b>       | <b>12.06</b>            | <b>3.69</b>               | <b>15.75</b>        | <b>1.49</b>         |                    |                  | <b>16.96</b>            |
|                    |                    | 12.00                   | 2.00                      | 14.00               | 2.00                |                    |                  | 15.20                   |
| 4249               | 11.16              | 7.47                    | 3.60                      | 11.07               | .58                 | 1.94               | 2.43             | 22.14                   |
| 4589               | 10.74              | 7.24                    | 3.13                      | 10.37               | .81                 | 1.87               | 2.66             | 21.34                   |
| 4590               | 10.16              | 7.06                    | 3.75                      | 10.81               | .79                 | 1.70               | 2.62             | 21.17                   |
|                    | <b>10.69</b>       | <b>7.26</b>             | <b>3.49</b>               | <b>10.75</b>        | <b>.73</b>          | <b>1.84</b>        | <b>2.57</b>      | <b>21.55</b>            |
|                    |                    | 7.00                    | 2.00                      | 9.00                | 1.00                | 1.65               | 2.00             | 18.38                   |
| 4387               | 7.30               | 3.18                    | 2.56                      | 5.74                | .37                 | 3.45               | 4.85             | 23.56                   |
| 4591               | 7.27               | 3.57                    | 2.69                      | 6.26                | .51                 | 3.09               | 4.14             | 22.20                   |
|                    | <b>7.29</b>        | <b>3.38</b>             | <b>2.62</b>               | <b>6.00</b>         | <b>.44</b>          | <b>3.27</b>        | <b>4.49</b>      | <b>22.88</b>            |
|                    |                    | 5.00                    | 2.00                      | 7.00                | 1.00                | 2.50               | 3.00             | 19.95                   |
| 4144               | 1.55               |                         |                           |                     |                     |                    | 12.54            | 12.54                   |
| 4592               | 2.16               |                         |                           |                     |                     |                    | 13.62            | 13.62                   |
|                    | <b>1.86</b>        |                         |                           |                     |                     |                    | <b>13.08</b>     | <b>13.08</b>            |
|                    |                    |                         |                           |                     |                     |                    | 12.00            | 12.00                   |
| 4250               | 12.51              | 12.21                   | 3.94                      | 16.15               | 1.70                |                    |                  | 17.37                   |
| 4331               | 11.81              | 13.09                   | 1.84                      | 14.93               | 1.51                |                    |                  | 16.24                   |
| 4388               | 12.11              | 11.45                   | 4.13                      | 15.58               | .68                 |                    |                  | 16.73                   |
| 4593               | 10.85              | 9.66                    | 5.65                      | 15.31               | .67                 |                    |                  | 16.28                   |
| 4594               | 10.01              | 10.44                   | 5.04                      | 15.48               | .61                 |                    |                  | 16.52                   |
| 4595               | 6.72               | 10.35                   | 5.08                      | 15.43               | .45                 |                    |                  | 16.47                   |
|                    | <b>10.67</b>       | <b>11.20</b>            | <b>4.28</b>               | <b>15.48</b>        | <b>.94</b>          |                    |                  | <b>16.60</b>            |
|                    |                    | 12.00                   | 2.00                      | 14.00               | 1.00                |                    |                  | 15.20                   |
| 4295               | 9.78               | 8.90                    | 5.54                      | 14.44               | 1.25                |                    |                  | 15.33                   |
| 4596               | 9.51               | 9.53                    | 4.33                      | 13.86               | 1.61                |                    |                  | 14.81                   |
| 4597               | 12.94              | 10.00                   | 4.76                      | 14.76               | 1.69                |                    |                  | 15.76                   |
| 4598               | 8.40               | 9.22                    | 4.84                      | 14.06               | 1.66                |                    |                  | 14.98                   |
|                    | <b>10.16</b>       | <b>9.41</b>             | <b>4.87</b>               | <b>14.28</b>        | <b>1.55</b>         |                    |                  | <b>15.22</b>            |
|                    |                    | 10.00                   | 2.00                      | 12.00               | 1.00                |                    |                  | 13.00                   |
| 4599               | 8.95               | 6.28                    | 4.13                      | 10.41               | 3.03                | 1.68               | 1.92             | 19.88                   |
| 4600               | 8.68               | 6.63                    | 4.09                      | 10.72               | 2.23                | 1.57               | 1.81             | 19.76                   |
|                    | <b>8.81</b>        | <b>6.45</b>             | <b>4.11</b>               | <b>10.56</b>        | <b>2.63</b>         | <b>1.63</b>        | <b>1.87</b>      | <b>19.82</b>            |
|                    |                    | 7.50                    | 2.00                      | 9.50                | 1.00                | 1.65               | 1.50             | 18.48                   |
| 4261               | 8.69               | 7.66                    | 3.24                      | 10.90               | 2.12                | 1.60               | 1.76             | 20.12                   |

| Laboratory Number. | Name of Brand and Manufacturer.                             | Where and From Whom Collected.                          |
|--------------------|-------------------------------------------------------------|---------------------------------------------------------|
| 4601               | S. G. Lampton's Am. R. B. Superphosphate .....              | Rawls & Lampton, Silver Creek.....<br>Average .....     |
|                    |                                                             | Guarantee.....                                          |
| 4602               | H. G. L. & H's. Special Fert. ....                          | Lotterhos & Huber, Crystal Springs ...                  |
| 4603               | H. G. L. & H's. Special Fert. ....                          | Lotterhos & Huber, Crystal Springs ...<br>Average ..... |
|                    |                                                             | Guarantee.....                                          |
| 4145               | S. G. Royal "C" Brand .....                                 | Lotterhos & Huber, Crystal Springs....                  |
| 4146               | S. G. Royal "C" Brand.....                                  | Myer Mercantile Co., Taylorsville.....                  |
| 4173               | S. G. Royal "C" Brand.....                                  | Lampton-Rawls Co., Mt. Olive.....                       |
| 4174               | S. G. Royal "C" Brand.....                                  | C. Atkinson Son's Co., Summit.....                      |
| 4175               | S. G. Royal "C" Brand.....                                  | The Lampton Co., Columbia.....                          |
| 4251               | S. G. Royal "C" Brand.....                                  | Story & Co., Forest.....                                |
| 4262               | S. G. Royal "C" Brand.....                                  | J. P. Myer, Ellisville.....                             |
| 4263               | S. G. Royal "C" Brand.....                                  | The Lampton Co., Columbia.....                          |
| 4296               | S. G. Royal "C" Brand.....                                  | Gaddis & Slay Co., Magee .....                          |
| 4332               | S. G. Royal "C" Brand.....                                  | S. S. Dale & Sons, Prentiss.....                        |
| 4333               | S. G. Royal "C" Brand.....                                  | F. L. Riley Mercantile Co., New Hebron                  |
| 4334               | S. G. Royal "C" Brand.....                                  | Walker Durr & Co., Pinola.....                          |
| 4389               | S. G. Royal "C" Brand.....                                  | The Mississippi Co., Canton.....                        |
| 4604               | S. G. Royal "C" Brand.....                                  | J. W. McKay, Buckatunna.....                            |
| 4605               | S. G. Royal "C" Brand.....                                  | H. A. Busick, Brandon.....                              |
| 4606               | S. G. Royal "C" Brand.....                                  | A. C. Seavey & Sons, Brookhaven.....                    |
| 4607               | S. G. Royal "C" Brand.....                                  | R. F. Everett, Braxton.....                             |
| 4608               | S. G. Royal "C" Brand.....                                  | O. W. Conner & Co., Seminary.....                       |
| 4609               | S. G. Royal "C" Brand.....                                  | Buckley Bros., Enterprise.....                          |
| 4610               | S. G. Royal "C" Brand.....                                  | Barney, Johns & Co., Gloster.....                       |
| 4611               | S. G. Royal "C" Brand.....                                  | Hickman, Son, Butler & Co., M'ticello<br>Average .....  |
|                    |                                                             | Guarantee.....                                          |
|                    | KOSCIUSKO OIL MILL &<br>FERTILIZER Co.,<br>Kosciusko, Miss. |                                                         |
| 4190               | H. G. Acid Phosphate.....                                   | K'sko Oil Mill & Fert. Co., Kosciusko                   |
| 4612               | H. G. Acid Phosphate.....                                   | Seward & Co., Ackerman.....<br>Average .....            |
|                    |                                                             | Guarantee.....                                          |
| 4191               | S. G. Peerless Guano .....                                  | Kosciusko Oil Mill & Fert. Co., K'sko                   |
| 4390               | S. G. Peerless Guano .....                                  | J. B. Triplett, McCool.....                             |
| 4613               | S. G. Peerless Guano .....                                  | G. Lowenberg & Co., Kosciusko.....                      |
| 4614               | S. G. Peerless Guano .....                                  | F. Z. Jackson & Son, Kosciusko.....                     |
| 4615               | S. G. Peerless Guano.....                                   | J. W. S. Guyton, Sallis.....<br>Average .....           |
|                    |                                                             | Guarantee.....                                          |
|                    | LAUREL OIL & FERT. CO.,<br>Laurel, Miss.                    |                                                         |
| 4147               | S. G. Acid Phosphate .....                                  | Doyle Kervin, Collins.....                              |
| 4264               | S. G. Acid Phosphate .....                                  | W. A. Morrison, Heidelberg.....                         |
| 4616               | S. G. Acid Phosphate .....                                  | Mendenhall Merc. Co., Mendenhall...                     |

| Laboratory Number. | Moisture—Per Cent. | Phosphoric Acid.        |                           |                     |                     | Nitrogen—Per Cent. | Potash—Per Cent. | Relative Value Per Ton. |
|--------------------|--------------------|-------------------------|---------------------------|---------------------|---------------------|--------------------|------------------|-------------------------|
|                    |                    | Water Soluble Per Cent. | Citrate Soluble Per Cent. | Available Per Cent. | Insoluble Per Cent. |                    |                  |                         |
| 4601               | 8.84               | 6.17                    | 5.35                      | 11.52               | 1.37                | 1.75               | 1.97             | 21.38                   |
|                    | <b>8.76</b>        | <b>6.92</b>             | <b>4.29</b>               | <b>11.21</b>        | <b>1.74</b>         | <b>1.68</b>        | <b>1.86</b>      | <b>20.75</b>            |
|                    |                    | 7.50                    | 2.00                      | 9.50                | 1.00                | 1.65               | 1.50             | 18.48                   |
| 4602               | 11.16              | 6.56                    | 2.27                      | 8.83                | .91                 | 2.02               | 4.02             | 21.46                   |
| 4603               | 10.72              | 5.58                    | 3.40                      | 8.98                | 1.18                | 2.07               | 3.76             | 21.44                   |
|                    | <b>10.94</b>       | <b>6.07</b>             | <b>2.84</b>               | <b>8.91</b>         | <b>1.04</b>         | <b>2.04</b>        | <b>3.89</b>      | <b>21.45</b>            |
|                    |                    | 6.00                    | 2.00                      | 8.00                | 1.00                | 2.40               | 3.40             | 21.20                   |
| 4145               | 9.63               | 7.30                    | 3.41                      | 10.71               | 1.65                | 1.74               | 2.24             | 20.84                   |
| 4146               | 10.55              | 7.97                    | 3.29                      | 11.26               | 1.57                | 1.50               | 2.10             | 20.53                   |
| 4173               | 9.70               | 7.73                    | 3.48                      | 11.21               | 1.20                | 1.73               | 2.19             | 21.35                   |
| 4174               | 11.51              | 7.70                    | 3.50                      | 11.20               | 1.25                | 1.64               | 2.22             | 21.05                   |
| 4175               | 13.97              | 7.45                    | 3.76                      | 11.21               | 1.36                | 1.54               | 1.94             | 20.41                   |
| 4251               | 13.23              | 7.92                    | 2.26                      | 10.18               | 1.98                | 1.46               | 2.34             | 19.44                   |
| 4262               | 11.80              | 8.53                    | 2.65                      | 11.18               | 1.51                | 1.64               | 1.80             | 20.69                   |
| 4263               | 12.01              | 9.16                    | 2.32                      | 11.48               | 1.09                | 1.71               | 1.97             | 21.50                   |
| 4296               | 12.04              | 6.37                    | 5.37                      | 11.74               | 1.01                | 1.57               | 2.14             | 21.19                   |
| 4332               | 11.62              | 8.14                    | 2.67                      | 10.81               | 1.36                | 1.63               | 1.90             | 20.31                   |
| 4333               | 11.75              | 8.00                    | 2.59                      | 10.59               | 1.41                | 1.71               | 2.01             | 20.44                   |
| 4334               | 10.13              | 8.46                    | 3.01                      | 11.47               | 1.20                | 1.44               | 2.05             | 20.55                   |
| 4389               | 11.72              | 8.20                    | 2.42                      | 10.62               | 1.57                | 1.73               | 2.52             | 21.08                   |
| 4604               | 12.50              | 8.20                    | 2.38                      | 10.58               | 1.70                | 1.56               | 2.44             | 20.36                   |
| 4605               | 12.29              | 7.43                    | 3.44                      | 10.87               | 1.33                | 1.45               | 2.36             | 20.14                   |
| 4606               | 12.04              | 6.70                    | 3.42                      | 10.12               | 1.14                | 1.68               | 2.36             | 20.04                   |
| 4607               | 11.81              | 8.19                    | 3.09                      | 11.28               | .86                 | 1.56               | 2.42             | 21.11                   |
| 4608               | 12.55              | 8.25                    | 3.23                      | 11.48               | 1.07                | 1.50               | 2.29             | 20.99                   |
| 4609               | 12.64              | 6.86                    | 3.71                      | 10.57               | .86                 | 1.52               | 2.28             | 19.91                   |
| 4610               | 12.08              | 8.70                    | 2.75                      | 11.45               | .60                 | 1.62               | 2.30             | 21.44                   |
| 4611               | 11.66              | 7.71                    | 3.09                      | 10.80               | .93                 | 1.62               | 2.21             | 20.53                   |
|                    | <b>11.77</b>       | <b>7.86</b>             | <b>3.13</b>               | <b>10.99</b>        | <b>1.27</b>         | <b>1.60</b>        | <b>2.19</b>      | <b>20.66</b>            |
|                    |                    | 7.50                    | 2.00                      | 9.50                | 1.00                | 1.65               | 1.80             | 18.78                   |
| 4190               | 10.05              | 12.38                   | 3.20                      | 15.58               | 1.56                |                    |                  | 16.82                   |
| 4612               | 12.54              | 13.98                   | 3.01                      | 16.99               | .60                 |                    |                  | 18.39                   |
|                    | <b>11.29</b>       | <b>13.18</b>            | <b>3.11</b>               | <b>16.29</b>        | <b>1.08</b>         |                    |                  | <b>17.61</b>            |
|                    |                    | 11.00                   | 3.00                      | 14.00               | 1.00                |                    |                  | 15.10                   |
| 4191               | 10.37              | 8.26                    | 2.90                      | 11.16               | 1.34                | 1.73               | 1.99             | 21.15                   |
| 4390               | 10.59              | 8.42                    | 2.84                      | 11.26               | 1.33                | 1.71               | 2.36             | 21.57                   |
| 4613               | 11.07              | 8.06                    | 3.46                      | 11.52               | 1.02                | 1.57               | 2.07             | 21.04                   |
| 4614               | 10.59              | 8.25                    | 3.40                      | 11.65               | .82                 | 1.65               | 2.21             | 21.63                   |
| 4615               | 10.96              | 7.97                    | 3.26                      | 11.23               | 1.23                | 1.60               | 2.06             | 20.81                   |
|                    | <b>10.71</b>       | <b>8.19</b>             | <b>3.17</b>               | <b>11.36</b>        | <b>1.15</b>         | <b>1.65</b>        | <b>2.14</b>      | <b>21.24</b>            |
|                    |                    | 8.00                    | 1.50                      | 9.50                | 1.00                | 1.67               | 1.75             | 18.85                   |
| 4147               | 10.55              | 9.85                    | 2.97                      | 12.82               | 4.57                |                    |                  | 13.81                   |
| 4264               | 15.26              | 13.16                   | 1.78                      | 14.94               | 1.88                |                    |                  | 16.26                   |
| 4616               | 9.30               | 9.79                    | 2.86                      | 12.65               | 4.30                |                    |                  | 13.63                   |

TABLE II—Analyses of Commercial Fertilizer

| Laboratory Number. | Name of Brand and Manufacturer.            | Where and From Whom Collected.                         |
|--------------------|--------------------------------------------|--------------------------------------------------------|
| 4617               | S. G. Acid Phosphate .....                 | J. P. Cox & Son., Braxton.....<br>Average .....        |
|                    |                                            | Guarantee .....                                        |
| 4540               | S.G.K.C.Ammoniated Bone                    | E. E. Bonner, Sandersville.....                        |
| 4541               | S.G.K.C.Ammoniated Bone                    | Abney & Travis, Heidelberg.....<br>Average .....       |
|                    |                                            | Guarantee .....                                        |
| 4297               | Laurel Special H. G. Fert. ..              | W. M. Conner, Hattiesburg.....                         |
| 4618               | Laurel Special H. G. Fert. ..              | J. F. Thornton, Mize.....                              |
| 4619               | Laurel Special H. G. Fert. ..              | L. L. Denson, Bay Springs.....<br>Average .....        |
|                    |                                            | Guarantee .....                                        |
| 4148               | S. G. Plow Brand.....                      | J. S. Eaton & Bro., Taylorsville.....                  |
| 4176               | S. G. Plow Brand.....                      | Doyle Kervin, Collins.....                             |
| 4265               | S. G. Plow Brand.....                      | The T. B. Bonner Co., Laurel.....                      |
| 4335               | S. G. Plow Brand.....                      | J. A. Parker & Co., Prentiss.....                      |
| 4336               | S. G. Plow Brand.....                      | McLean & O'Connell Co., Bassfield...                   |
| 4517               | S. G. Plow Brand.....                      | L. B. Tillson, Mize.....                               |
| 4525               | S. G. Plow Brand.....                      | McLean & O'Connell Co., Bassfield...                   |
| 4620               | S. G. Plow Brand.....                      | McCollum & Co., Weathersby .....                       |
| 4621               | S. G. Plow Brand.....                      | R. E. Wilkinson Mer. Co., Poplarville<br>Average ..... |
|                    |                                            | Guarantee .....                                        |
|                    | MERIDIAN FERT. FACTORY,<br>Meridian, Miss. |                                                        |
| 4149               | S.G.Meridian Eng.Acid Phos                 | Beeman & Chadwick, Forest.....                         |
| 4177               | S.G.Meridian Eng.Acid Phos.                | Bransby & Bogle, Macon.....                            |
| 4266               | S.G.Meridian Eng.Acid Phos.                | W. H. Gallaspy, Hickory.....                           |
| 4337               | S.G.Meridian Eng.Acid Phos.                | Bransby & Bogle, Macon.....                            |
| 4622               | S.G.Meridian Eng.Acid Phos.                | A. E. Dalrymple & Co., Amory.....                      |
| 4623               | S.G.Meridian Eng.Acid Phos.                | J. L. Wells, Hickory.....                              |
| 4624               | S.G.Meridian Eng.Acid Phos.                | Blumenfeld & Fried, Starkville.....<br>Average .....   |
|                    |                                            | Guarantee .....                                        |
| 4252               | H. G. Meridian Southern<br>Acid Phosphate  | Story & Co., Forest.....                               |
| 4267               | H. G. Meridian Southern<br>Acid Phosphate  | Meridian Fert. Factory, Meridian.....                  |
| 4338               | H. G. Meridian Southern<br>Acid Phosphate  | A. Robert & Co., Lauderdale.....                       |
| 4625               | H. G. Meridian Southern<br>Acid Phosphate  | Ford Bros. Co., Centreville.....                       |
| 4626               | H. G. Meridian Southern<br>Acid Phosphate  | Matthews & Cotton, Iuka.....                           |
| 4627               | H. G. Meridian Southern<br>Acid Phosphate  | W. G. Barnes, Brandon.....                             |
| 4628               | H. G. Meridian Southern<br>Acid Phosphate  | G. R. Edwards, McCool.....                             |

| Laboratory Number. | Moisture—Per Cent.    | Phosphoric Acid.        |                           |                       |                     | Nitrogen—Per Cent.  | Potash—Per Cent.    | Relative Value Per Ton. |
|--------------------|-----------------------|-------------------------|---------------------------|-----------------------|---------------------|---------------------|---------------------|-------------------------|
|                    |                       | Water Soluble Per Cent. | Citrate Soluble Per Cent. | Available Per Cent.   | Insoluble Per Cent. |                     |                     |                         |
| 4617               | 8.00<br><b>10.72</b>  | 8.53<br><b>10.33</b>    | 4.20<br><b>2.95</b>       | 12.73<br><b>13.29</b> | 4.30<br><b>3.76</b> |                     |                     | 13.58<br><b>14.32</b>   |
|                    |                       | 10.00                   | 2.00                      | 12.00                 | 3.00                |                     |                     | 13.00                   |
| 4540               | 8.27                  | 6.67                    | 4.23                      | 10.90                 | 2.80                | 1.57                | 2.03                | 20.18                   |
| 4541               | 12.12<br><b>10.20</b> | 7.98<br><b>7.33</b>     | 2.92<br><b>3.57</b>       | 10.90<br><b>10.90</b> | 2.44<br><b>2.62</b> | 1.82<br><b>1.70</b> | 1.76<br><b>1.89</b> | 20.92<br><b>20.55</b>   |
|                    |                       | 7.00                    | 2.00                      | 9.00                  | 1.00                | 1.65                | 1.50                | 17.88                   |
| 4297               | 9.39                  | 4.11                    | 2.37                      | 6.48                  | 3.22                | 3.03                | 4.45                | 22.59                   |
| 4618               | 9.84                  | 5.44                    | 2.66                      | 8.10                  | 2.39                | 2.77                | 4.12                | 23.27                   |
| 4619               | 10.32<br><b>9.85</b>  | 5.59<br><b>5.05</b>     | 2.31<br><b>2.45</b>       | 7.90<br><b>7.49</b>   | 2.35<br><b>2.65</b> | 2.87<br><b>2.89</b> | 4.40<br><b>4.32</b> | 23.69<br><b>23.18</b>   |
|                    |                       | 4.00                    | 2.00                      | 6.00                  | 2.00                | 3.00                | 4.00                | 21.50                   |
| 4148               | 11.14                 | 7.89                    | 2.31                      | 10.20                 | 2.81                | 1.72                | 1.88                | 19.91                   |
| 4176               | 8.53                  | 7.14                    | 2.65                      | 9.79                  | 3.31                | 1.79                | 2.04                | 19.79                   |
| 4265               | 13.09                 | 6.28                    | 2.21                      | 8.49                  | 3.45                | 1.86                | 2.05                | 18.53                   |
| 4335               | 11.66                 | 7.62                    | 2.26                      | 9.88                  | 3.30                | 1.77                | 1.73                | 19.56                   |
| 4336               | 13.60                 | 4.24                    | 2.38                      | 6.62                  | 3.76                | 1.90                | 2.15                | 16.51                   |
| 4517               | 12.38                 | 7.51                    | 2.18                      | 9.69                  | 2.41                | 1.72                | 1.56                | 18.99                   |
| 4525               | 10.97                 | 6.01                    | 2.95                      | 8.96                  | 3.42                | 1.82                | 1.69                | 18.52                   |
| 4620               | 11.27                 | 6.38                    | 3.14                      | 9.52                  | 2.70                | 1.62                | 2.00                | 18.78                   |
| 4621               | 12.14<br><b>11.64</b> | 6.77<br><b>6.65</b>     | 2.56<br><b>2.51</b>       | 9.33<br><b>9.16</b>   | 2.79<br><b>3.11</b> | 1.68<br><b>1.76</b> | 1.69<br><b>1.87</b> | 18.51<br><b>18.79</b>   |
|                    |                       | 7.00                    | 2.00                      | 9.00                  | 2.00                | 1.80                | 1.50                | 18.40                   |
| 4149               | 16.95                 | 10.45                   | 3.57                      | 14.02                 | 1.07                |                     |                     | 15.07                   |
| 4177               | 15.95                 | 9.77                    | 2.74                      | 12.51                 | 1.94                |                     |                     | 13.49                   |
| 4266               | 17.76                 | 9.88                    | 2.80                      | 12.68                 | 2.25                |                     |                     | 13.67                   |
| 4337               | 17.91                 | 9.72                    | 2.91                      | 12.63                 | 2.09                |                     |                     | 13.60                   |
| 4622               | 15.50                 | 10.39                   | 3.39                      | 13.78                 | .82                 |                     |                     | 14.82                   |
| 4623               | 13.16                 | 9.47                    | 5.42                      | 14.89                 | 1.24                |                     |                     | 15.84                   |
| 4624               | 12.36<br><b>15.66</b> | 10.32<br><b>10.00</b>   | 3.88<br><b>3.53</b>       | 14.20<br><b>13.53</b> | 1.56<br><b>1.57</b> |                     |                     | 15.23<br><b>14.53</b>   |
|                    |                       | 10.00                   | 2.00                      | 12.00                 | 1.00                |                     |                     | 13.00                   |
| 4252               | 13.83                 | 11.33                   | 3.37                      | 14.70                 | 1.45                |                     |                     | 15.83                   |
| 4267               | 14.01                 | 10.72                   | 3.88                      | 14.60                 | 1.52                |                     |                     | 15.67                   |
| 4338               | 14.25                 | 11.10                   | 3.85                      | 14.95                 | .97                 |                     |                     | 16.06                   |
| 4625               | 12.43                 | 12.35                   | 3.21                      | 15.56                 | .77                 |                     |                     | 16.80                   |
| 4626               | 13.87                 | 9.96                    | 3.03                      | 12.99                 | 1.91                |                     |                     | 13.99                   |
| 4627               | 12.58                 | 11.77                   | 3.46                      | 15.23                 | .79                 |                     |                     | 16.41                   |
| 4628               | 12.76                 | 12.61                   | 3.08                      | 15.69                 | 1.00                |                     |                     | 16.95                   |

| Laboratory Number. | Name of Brand and Manufacturer.              | Where and From Whom Collected.              |
|--------------------|----------------------------------------------|---------------------------------------------|
| 4629               | H. G. Meridian Southern Acid Phosphate ..... | Rogers & Son, Pachuta.....<br>Average ..... |
|                    |                                              | Guarantee.....                              |
| 4298               | S. G. Meridian Blood & Bone                  | J. E. McNair, Lumberton.....                |
| 4299               | S. G. Meridian Blood & Bone                  | Gaddis & Slay Co., Magee.....               |
| 4391               | S. G. Meridian Blood & Bone                  | Myers & Mehaffey, Steenston.....            |
| 4464               | S. G. Meridian Blood & Bone                  | Terrell & Mize, Quincy.....                 |
| 4465               | S. G. Meridian Blood & Bone                  | T. W. Foard, Eupora.....                    |
| 4630               | S. G. Meridian Blood & Bone                  | Gladding Mer. Co., Gladding.....            |
| 4631               | S. G. Meridian Blood & Bone                  | Dunn Bros., Summit.....                     |
| 4632               | S. G. Meridian Blood & Bone                  | R. Watts & Co., Seminary.....               |
| 4633               | S. G. Meridian Blood & Bone                  | Matthews & Cotten, Iuka.....                |
| 4634               | S. G. Meridian Blood & Bone                  | Laurel Mercantile Co., Laurel .....         |
|                    |                                              | Average .....                               |
|                    |                                              | Guarantee.....                              |
| 4635               | S.G.Meridian Farmers Friend                  | Story & Co., Forest .....                   |
| 4636               | S.G.Meridian Farmers Friend                  | Story & Co., Forest .....                   |
|                    |                                              | Average .....                               |
|                    |                                              | Guarantee.....                              |
| 4150               | S.G.Meridain Home Mixture                    | John McGrath & Sons, Brookhaven....         |
| 4151               | S.G. Meridian Home Mixture                   | Holloway & McRaney, Collins.....            |
| 4178               | S.G. Meridian Home Mixture                   | Bransby & Bogle, Macon.....                 |
| 4179               | S.G. Meridian Home Mixture                   | W. L. Williamson & Co., Collins.....        |
| 4180               | S.G. Meridian Home Mixture                   | Beeman & Chadwick, Forest.....              |
| 4268               | S.G. Meridian Home Mixture                   | Meridian Fert. Factory, Meridian.....       |
| 4269               | S.G. Meridian Home Mixture                   | J. P. Myer, Ellisville.....                 |
| 4270               | S.G. Meridian Home Mixture                   | Barnes, Ruffin & Co., Columbia.....         |
| 4300               | S.G. Meridian Home Mixture                   | The T. J. Hubbard Co., Magee.....           |
| 4325               | S.G. Meridian Home Mixture                   | J. P. Myer, Ellisville.....                 |
| 4326               | S.G. Meridian Home Mixture                   | E. F. Nunn & Co., Shuqualak.....            |
| 4339               | S.G. Meridian Home Mixture                   | J. H. Williams & Sons, Prentiss.....        |
| 4340               | S.G. Meridian Home Mixture                   | T. C. Ruble, McHenry.....                   |
| 4341               | S.G. Meridian Home Mixture                   | Davis & Buffkin, Buckatunna.....            |
| 4342               | S.G. Meridian Home Mixture                   | A. S. Brinson & Son, New Hebron.....        |
| 4392               | S.G. Meridian Home Mixture                   | Philips, Hinds & Co., Booneville.....       |
| 4466               | S.G. Meridian Home Mixture                   | John McGrath & Sons, Norfield.....          |
| 4467               | S.G. Meridian Home Mixture                   | W. T. Richardson, Newton.....               |
| 4468               | S.G. Meridian Home Mixture                   | M. H. Turner, Vossburg.....                 |
| 4469               | S.G. Meridian Home Mixture                   | Liberty Mer. Co., Liberty.....              |
| 4470               | S.G. Meridian Home Mixture                   | Lann & Carter Hardware Co., Aberdeen.....   |
| 4471               | S.G. Meridian Home Mixture                   | J. G. Meadow, Winchester.....               |
| 4472               | S.G. Meridian Home Mixture                   | J. D. Furlick, Rienzi.....                  |
| 4509               | S.G. Meridian Home Mixture                   | G. E. Hailles, Moselle.....                 |
| 4637               | S.G. Meridian Home Mixture                   | C. F. Rush, Sucarnoehie.....                |
| 4638               | S.G. Meridian Home Mixture                   | J. N. Shirley, Brewer.....                  |
| 4639               | S.G. Meridian Home Mixture                   | Boswell Bros., Weathersby.....              |
| 4640               | S.G. Meridian Home Mixture                   | R. E. Wilkinson Mer. Co., Poplarville.....  |
| 4641               | S.G. Meridian Home Mixture                   | Ford Bros. Co., Centerville.....            |

| Laboratory Number. | Moisture—Per Cent. | Phosphoric Acid.               |                             |                                |                             | Nitrogen—Per Cent.          | Potash—Per Cent.            | Relative Value Per Ton.        |
|--------------------|--------------------|--------------------------------|-----------------------------|--------------------------------|-----------------------------|-----------------------------|-----------------------------|--------------------------------|
|                    |                    | Water Soluble Per Cent.        | Citrate Soluble Per Cent.   | Available Per Cent.            | Insoluble Per Cent.         |                             |                             |                                |
| 4629               | 11.57<br>13.16     | 11.04<br>11.36<br><i>12.00</i> | 4.25<br>3.52<br><i>2.00</i> | 15.29<br>14.88<br><i>14.00</i> | 2.44<br>1.36<br><i>1.00</i> |                             |                             | 16.39<br>16.02<br><i>15.20</i> |
| 4298               | 15.16              | 7.46                           | 2.44                        | 9.90                           | 3.91                        | 1.15                        | 1.26                        | 16.92                          |
| 4299               | 14.47              | 7.22                           | 4.50                        | 11.72                          | .67                         | 1.41                        | 1.05                        | 19.60                          |
| 4391               | 16.88              | 6.96                           | 2.40                        | 9.36                           | 1.55                        | 1.61                        | 1.52                        | 18.15                          |
| 4464               | 13.69              | 9.20                           | 2.92                        | 12.12                          | 1.60                        | 1.19                        | 2.83                        | 21.25                          |
| 4465               | 14.82              | 9.06                           | 2.98                        | 12.04                          | 1.43                        | 1.08                        | 1.98                        | 19.91                          |
| 4630               | 13.50              | 7.42                           | 2.47                        | 9.89                           | 1.25                        | 2.06                        | 3.30                        | 22.13                          |
| 4631               | 13.78              | 7.48                           | 2.89                        | 10.37                          | 1.45                        | 2.21                        | 2.72                        | 22.61                          |
| 4632               | 12.98              | 8.71                           | 2.21                        | 10.92                          | 2.02                        | 1.84                        | 2.19                        | 21.51                          |
| 4633               | 15.60              | 5.72                           | 4.25                        | 9.97                           | 1.27                        | 1.71                        | 1.53                        | 19.05                          |
| 4634               | 12.98<br>14.39     | 8.35<br>7.76<br><i>8.00</i>    | 2.63<br>2.97<br><i>1.50</i> | 10.98<br>10.73<br><i>9.50</i>  | 1.71<br>1.69<br><i>1.00</i> | 1.48<br>1.57<br><i>1.65</i> | 2.36<br>2.07<br><i>1.50</i> | 20.45<br>20.61<br><i>18.53</i> |
| 4635               | 10.63              | 6.74                           | 3.33                        | 10.07                          | 1.78                        | 1.60                        | 2.56                        | 19.91                          |
| 4636               | 14.14<br>12.38     | 6.92<br>6.83<br><i>8.00</i>    | 2.87<br>3.10<br><i>1.50</i> | 9.79<br>9.93<br><i>9.50</i>    | .96<br>1.37<br><i>1.00</i>  | 1.67<br>1.64<br><i>1.64</i> | 1.98<br>2.27<br><i>1.50</i> | 19.29<br>19.60<br><i>18.49</i> |
| 4150               | 13.60              | 6.84                           | 2.04                        | 8.88                           | 1.72                        | 1.94                        | 1.86                        | 19.10                          |
| 4151               | 12.00              | 7.06                           | 3.14                        | 10.20                          | 1.16                        | 1.85                        | 1.74                        | 20.14                          |
| 4178               | 13.30              | 7.24                           | 2.45                        | 9.69                           | 1.15                        | 1.80                        | 1.92                        | 19.60                          |
| 4179               | 12.45              | 7.18                           | 3.46                        | 10.64                          | .92                         | 1.70                        | 1.80                        | 20.17                          |
| 4180               | 15.15              | 4.35                           | 2.38                        | 6.73                           | 1.41                        | 1.97                        | 2.25                        | 16.98                          |
| 4268               | 14.33              | 5.18                           | 2.53                        | 7.71                           | .67                         | 1.91                        | 1.57                        | 17.25                          |
| 4269               | 14.03              | 6.94                           | 2.37                        | 9.31                           | .63                         | 1.98                        | 1.43                        | 19.30                          |
| 4270               | 12.67              | 7.19                           | 3.37                        | 10.56                          | 1.00                        | 1.50                        | 1.59                        | 19.18                          |
| 4300               | 12.31              | 7.07                           | 3.46                        | 10.53                          | 1.15                        | 1.74                        | 1.58                        | 19.96                          |
| 4325               | 13.71              | 6.52                           | 2.48                        | 9.00                           | .60                         | 1.94                        | 1.61                        | 18.95                          |
| 4326               | 13.32              | 6.13                           | 2.17                        | 8.30                           | 2.14                        | 2.01                        | 2.27                        | 19.05                          |
| 4339               | 12.31              | 7.04                           | 3.09                        | 10.13                          | 1.13                        | 1.63                        | 1.78                        | 19.33                          |
| 4340               | 12.23              | 6.92                           | 3.27                        | 10.19                          | 1.25                        | 1.60                        | 1.80                        | 19.30                          |
| 4341               | 13.71              | 7.87                           | 2.30                        | 10.17                          | 1.50                        | 1.70                        | 1.71                        | 19.63                          |
| 4342               | 11.97              | 6.87                           | 3.43                        | 10.30                          | 1.06                        | 1.66                        | 2.31                        | 20.14                          |
| 4392               | 15.73              | 6.02                           | 2.32                        | 8.34                           | 1.39                        | 1.71                        | 2.54                        | 18.30                          |
| 4466               | 15.49              | 7.04                           | 2.66                        | 9.70                           | 1.24                        | 1.67                        | 1.71                        | 18.93                          |
| 4467               | 15.58              | 5.36                           | 2.67                        | 8.03                           | 1.02                        | 1.76                        | 2.19                        | 17.72                          |
| 4468               | 13.94              | 7.36                           | 2.13                        | 9.49                           | 1.33                        | 1.83                        | 2.58                        | 20.16                          |
| 4469               | 14.07              | 7.11                           | 2.45                        | 9.56                           | .84                         | 1.84                        | 2.65                        | 20.32                          |
| 4470               | 12.15              | 7.46                           | 3.52                        | 10.98                          | 1.34                        | 1.86                        | 2.54                        | 21.87                          |
| 4471               | 13.88              | 7.74                           | 1.94                        | 9.68                           | 1.29                        | 1.84                        | 2.78                        | 20.64                          |
| 4472               | 14.92              | 7.61                           | 2.19                        | 9.80                           | 1.28                        | 1.66                        | 2.51                        | 19.86                          |
| 4509               | 12.59              | 7.85                           | 2.26                        | 10.11                          | 1.97                        | 1.59                        | 2.01                        | 20.48                          |
| 4637               | 15.56              | 6.41                           | 2.02                        | 8.43                           | 1.27                        | 1.58                        | 2.04                        | 17.48                          |
| 4638               | 14.13              | 6.24                           | 2.10                        | 8.34                           | .87                         | 1.71                        | 2.15                        | 17.93                          |
| 4639               | 12.37              | 6.82                           | 3.13                        | 9.95                           | .88                         | 1.53                        | 1.84                        | 18.82                          |
| 4640               | 11.89              | 7.55                           | 2.29                        | 9.84                           | 1.45                        | 1.78                        | 2.57                        | 20.38                          |
| 4641               | 11.44              | 6.77                           | 3.11                        | 9.88                           | 1.38                        | 1.88                        | 2.44                        | 20.57                          |

| Laboratory Number. | Name of Brand and Manufacturer.                            | Where and From Whom Collected.            |
|--------------------|------------------------------------------------------------|-------------------------------------------|
| 4642               | S.G. Meridian Home Mixture                                 | Bramlett Hardware Co., Corinth.....       |
| 4643               | S.G. Meridian Home Mixture                                 | Matthews & Cotten, Iuka.....              |
| 4644               | S.G. Meridian Home Mixtnre                                 | A. W. Allen, Tupelo.....                  |
| 4645               | S.G. Meridian Home Mixture                                 | Hawkins & Co., Hattiesburg.....           |
| 4646               | S.G. Meridian Home Mixture                                 | Miss. & Ala. Co-operative Co., State Line |
| 4647               | S.G. Meridian Home Mixture                                 | Lann & Carter Hardware Co., Aberdeen      |
| 4648               | S.G. Meridian Home Mixture                                 | W. G. Barnes, Brandon.....                |
| 4649               | S.G. Meridian Home Mixture                                 | Newberger Mer. Co., Coffeville.....       |
| 4650               | S.G. Meridian Home Mixture                                 | Irving & Torbert, Weir.....               |
| 4651               | S.G. Meridian Home Mixture                                 | McLeod & Co., Purvis.....                 |
| 4652               | S.G. Meridian Home Mixture                                 | Jeffcoat & Green, Soso.....               |
| 4653               | S.G. Meridian Home Mixture                                 | Loper & Gilbert, Lake.....                |
| 4654               | S.G. Meridian Home Mixture                                 | O. Hopkins, Hickory.....                  |
| 4655               | S.G. Meridian Home Mixture                                 | T. M. Foard, Eupora.....                  |
| 4656               | S.G. Meridian Home Mixture                                 | G. P. McGhee & Son, Gloster.....          |
| 4657               | S.G. Meridian Home Mixture                                 | Laurel Mer. Co., Laurel.....              |
|                    |                                                            | Average.....                              |
|                    |                                                            | Guarantee.....                            |
| 4658               | S.G. Meridian Soluble Guano                                | W. J. Bell, Pelahatchie.....              |
| 4659               | S.G. Meridian Soluble Guano                                | M. D. Graham & Co., Forest.....           |
|                    |                                                            | Average.....                              |
|                    |                                                            | Guarantee.....                            |
| 4660               | H. G. Meridian Vegetable Grower.....                       | Meridian Fertilizer Factory, Meridian     |
| 4661               | H. G. Meridian Vegetable Grower.....                       |                                           |
|                    |                                                            | R. Watts & Co., Seminary.....             |
|                    |                                                            | Average.....                              |
|                    |                                                            | Guarantee.....                            |
| 4253               | S. G. Hattiesburg Am. Mixture with Bone.....               | Story & Co., Forest.....                  |
| 4662               | S. G. Hattiesburg Am. Mixture with Bone.....               | G. C. Rew, Forest.....                    |
|                    |                                                            | Average.....                              |
|                    |                                                            | Guarantee.....                            |
| 4301               | S.G. Meridian German Kainit                                | W. W. Pigford, Lumberton.....             |
| 4663               | S. G. Meridian German Kainit                               | F. H. Deays, Enterprise.....              |
| 4664               | S.G. Meridian German Kainit                                | W. G. Barnes, Brandon.....                |
|                    |                                                            | Average.....                              |
|                    |                                                            | Guarantee.....                            |
|                    | NEW ORLEANS ACID & FERTILIZER COMPANY,<br>New Orleans, La. |                                           |
| 4254               | S. G. Black Diamond Acid Phosphate.....                    | Sones & Dansby, Forest.....               |
| 4343               | S. G. Black Diamond Acid Phosphate.....                    | S. S. Dale & Sons, Prentiss.....          |
| 4393               | S. G. Black Diamond Acid Phosphate.....                    | A. J. Gaston, Ackerman.....               |
| 4474               | S. G. Black Diamond Acid Phosphate.....                    | M. H. Rothschilds, Woodville.....         |



| Laboratory Number. | Moisture—Per Cent. | Phosphoric Acid.        |                           |                     |                     | Nitrogen—Per Cent. | Potash—Per Cent. | Relative Value Per Ton. |
|--------------------|--------------------|-------------------------|---------------------------|---------------------|---------------------|--------------------|------------------|-------------------------|
|                    |                    | Water Soluble Per Cent. | Citrate Soluble Per Cent. | Available Per Cent. | Insoluble Per Cent. |                    |                  |                         |
| 4642               | 13.38              | 7.15                    | 2.49                      | 9.64                | 1.20                | 1.76               | 2.52             | 20.00                   |
| 4643               | 13.59              | 8.20                    | 3.02                      | 11.22               | .95                 | 1.63               | 2.40             | 21.27                   |
| 4644               | 11.74              | 7.15                    | 2.70                      | 9.85                | 2.03                | 1.95               | 2.53             | 20.91                   |
| 4645               | 11.50              | 9.39                    | 2.57                      | 11.96               | 1.07                | 1.36               | 2.16             | 21.02                   |
| 4646               | 10.00              | 7.52                    | 2.91                      | 10.43               | 1.84                | 1.74               | 2.83             | 21.15                   |
| 4647               | 11.70              | 7.29                    | 2.50                      | 9.79                | 1.69                | 1.62               | 2.60             | 19.77                   |
| 4648               | 10.27              | 6.65                    | 3.78                      | 10.43               | 2.05                | 1.75               | 2.75             | 21.01                   |
| 4649               | 11.48              | 7.50                    | 2.06                      | 9.56                | 2.72                | 1.65               | 2.59             | 19.63                   |
| 4650               | 12.95              | 8.28                    | 1.63                      | 9.91                | 1.01                | 1.65               | 1.48             | 18.98                   |
| 4651               | 12.61              | 7.91                    | 1.63                      | 9.54                | 1.64                | 1.64               | 1.83             | 18.86                   |
| 4652               | 12.61              | 7.54                    | 2.24                      | 9.78                | 1.87                | 1.59               | 1.73             | 18.81                   |
| 4653               | 15.69              | 7.36                    | 2.10                      | 9.46                | .94                 | 1.74               | 1.87             | 19.10                   |
| 4654               | 15.98              | 7.24                    | 1.83                      | 9.07                | .94                 | 1.50               | 1.64             | 17.59                   |
| 4655               | 14.59              | 5.30                    | 2.04                      | 7.34                | .69                 | 1.89               | 1.96             | 17.18                   |
| 4656               | 11.88              | 7.38                    | 3.26                      | 10.64               | 1.32                | 1.96               | 1.92             | 21.22                   |
| 4657               | 15.39              | 7.45                    | 2.06                      | 9.51                | .86                 | 1.72               | 2.81             | 20.04                   |
|                    | <b>13.25</b>       | <b>7.05</b>             | <b>2.57</b>               | <b>9.62</b>         | <b>1.28</b>         | <b>1.74</b>        | <b>2.12</b>      | <b>19.51</b>            |
|                    |                    | <i>8.00</i>             | <i>1.50</i>               | <i>9.50</i>         | <i>1.00</i>         | <i>1.65</i>        | <i>1.50</i>      | <i>18.53</i>            |
| 4658               | 11.72              | 7.98                    | 2.35                      | 10.33               | 1.22                | 1.64               | 2.15             | 20.05                   |
| 4659               | 14.68              | 7.10                    | 4.20                      | 11.30               | 1.14                | 1.83               | 1.73             | 21.28                   |
|                    | <b>13.20</b>       | <b>7.54</b>             | <b>3.27</b>               | <b>10.81</b>        | <b>1.18</b>         | <b>1.74</b>        | <b>1.94</b>      | <b>20.67</b>            |
|                    |                    | <i>8.00</i>             | <i>1.50</i>               | <i>9.50</i>         | <i>1.00</i>         | <i>1.65</i>        | <i>1.50</i>      | <i>18.53</i>            |
| 4660               | 10.69              | 8.69                    | 1.40                      | 10.09               | .77                 | 2.27               | 5.07             | 24.98                   |
| 4661               | 11.50              | 7.15                    | 1.93                      | 9.08                | .97                 | 2.27               | 6.69             | 25.34                   |
|                    | <b>11.09</b>       | <b>7.92</b>             | <b>1.66</b>               | <b>9.58</b>         | <b>.87</b>          | <b>2.27</b>        | <b>5.88</b>      | <b>25.16</b>            |
|                    |                    | <i>6.00</i>             | <i>2.00</i>               | <i>8.00</i>         | <i>1.00</i>         | <i>2.50</i>        | <i>5.00</i>      | <i>23.15</i>            |
| 4253               | 14.31              | 7.66                    | 2.48                      | 10.14               | 1.57                | 1.67               | 1.86             | 19.63                   |
| 4662               | 13.97              | 7.32                    | 3.34                      | 10.66               | .95                 | 1.85               | 1.92             | 20.85                   |
|                    | <b>14.14</b>       | <b>7.49</b>             | <b>2.91</b>               | <b>10.40</b>        | <b>1.26</b>         | <b>1.76</b>        | <b>1.89</b>      | <b>20.24</b>            |
|                    |                    | <i>2.00</i>             | <i>2.00</i>               | <i>10.00</i>        | <i>1.00</i>         | <i>1.65</i>        | <i>1.00</i>      | <i>18.58</i>            |
| 4301               | 4.09               |                         |                           |                     |                     |                    | 12.88            | 12.88                   |
| 4663               | 2.02               |                         |                           |                     |                     |                    | 12.72            | 12.72                   |
| 4664               | 2.15               |                         |                           |                     |                     |                    | 12.86            | 12.86                   |
|                    | <b>2.75</b>        |                         |                           |                     |                     |                    | <b>12.82</b>     | <b>12.82</b>            |
|                    |                    |                         |                           |                     |                     |                    | <i>12.00</i>     | <i>12.00</i>            |
| 4254               | 13.24              | 11.39                   | 2.79                      | 14.18               | 1.33                |                    |                  | 15.32                   |
| 4343               | 13.85              | 11.25                   | 2.33                      | 13.58               | 1.48                |                    |                  | 14.71                   |
| 4393               | 12.66              | 10.17                   | 2.86                      | 13.03               | 2.39                |                    |                  | 14.05                   |
| 4474               | 12.86              | 9.02                    | 5.22                      | 14.24               | .82                 |                    |                  | 15.14                   |

| Laboratory Number. | Name of Brand and Manufacturer.              | Where and From Whom Collected.                            |
|--------------------|----------------------------------------------|-----------------------------------------------------------|
| 4515               | S. G. Black Diamond Acid Phosphate           | N. R. Hosey, Soso                                         |
| 4665               | S. G. Black Diamond Acid Phosphate           | J. A. Goree, Columbus<br>Average<br>Guarantee             |
| 4302               | S.G.Crescent City Acid Phos                  | Harrison & Nelson Co., Magee                              |
| 4666               | S.G.Crescent City Acid Phos.                 | W. M. Hyde, Poplarville<br>Average<br>Guarantee           |
| 4667               | S.G. Blood, Bone, & Beef                     | J. L. Moyse & Bro., Summit                                |
| 4668               | S. G. Blood Bone, & Beef                     | E. M. Odom, Star<br>Average<br>Guarantee                  |
| 4142               | S. G. Blood, Bone, & Potash                  | W. E. Payne, Collins                                      |
| 4669               | S. G. Blood, Bone, & Potash                  | S. Alcus, Summit<br>Average<br>Guarantee                  |
| 4536               | S.G.Dissolved Bone & Potash                  | Florence Mer. Co., Florence                               |
| 4670               | S.G.Dissolved Bone & Potash                  | J. A. Goree, Columbus<br>Average<br>Guarantee             |
| 4152               | H. G. Economizer                             | W. E. Payne, Collins<br>Guarantee                         |
| 4475               | S. G. Gold Dust                              | M. H. Rotschilds, Woodville                               |
| 4671               | S. G. Gold Dust                              | McLain & Tatum, Gloster<br>Average<br>Guarantee           |
| 4153               | S.G. Goldsmith's Imp. Mix.                   | W. E. Payne, Collins                                      |
| 4255               | S. G. Goldsmith's Imp. Mix.                  | Sones & Dansby, Forest                                    |
| 4303               | S. G. Goldsmith's Imp. Mix.                  | Howie Bros., Morton                                       |
| 4304               | S. G. Goldsmith's Imp. Mix.                  | Harrison & Nelson Co., Magee                              |
| 4395               | S. G. Goldsmith's Imp. Mix.                  | Mississippi Cotton Oil Co., Columbus                      |
| 4672               | S. G. Goldsmith's Imp. Mix.                  | W. M. Hyde, Poplarville                                   |
| 4673               | S. G. Goldsmith's Imp. Mix.                  | A. J. McKay, Braxton                                      |
| 4674               | S. G. Goldsmith's Imp. Mix.                  | McComb City Mer. Co., McComb City<br>Average<br>Guarantee |
| 4394               | Jack Gaston's S. G. Cotton & Corn Fertilizer | A. J. Gaston, Ackerman<br>Guarantee                       |
|                    | NEWTON OIL & MFG. Co.,<br>Newton, Miss.      |                                                           |
| 4305               | S. G. Acid Phosphate                         | L. E. Rushing, Morton                                     |
| 4675               | S. G. Acid Phosphate                         | L. H. Yarbrough, Hickory<br>Average<br>Guarantee          |
| 4306               | S. G. Banner C. & C. Brand                   | L. E. Rushing, Morton                                     |
| 4307               | S. G. Banner C. & C. Brand                   | J. N. Evans, Pelahatchie                                  |

| Laboratory Number. | Moisture—Per Cent. | Phosphoric Acid.        |                           |                     |                     | Nitrogen—Per Cent. | Potash—Per Cent. | Relative Value Per Ton. |
|--------------------|--------------------|-------------------------|---------------------------|---------------------|---------------------|--------------------|------------------|-------------------------|
|                    |                    | Water Soluble Per Cent. | Citrate Soluble Per Cent. | Available Per Cent. | Insoluble Per Cent. |                    |                  |                         |
| 4515               | 11.52              | 13.02                   | 3.97                      | 16.99               | .90                 |                    |                  | 18.29                   |
| 4665               | 12.57              | 7.52                    | 6.56                      | 14.08               | .50                 |                    |                  | 14.83                   |
|                    | <b>12.78</b>       | <b>10.40</b>            | <b>3.95</b>               | <b>14.35</b>        | <b>1.24</b>         |                    |                  | <b>15.39</b>            |
|                    |                    | <i>10.00</i>            | <i>2.00</i>               | <i>12.00</i>        | <i>2.00</i>         |                    |                  | <i>13.00</i>            |
| 4302               | 13.71              | 10.84                   | 2.61                      | 13.45               | 2.09                |                    |                  | 14.53                   |
| 4666               | 10.41              | 9.10                    | 6.66                      | 15.76               | .55                 |                    |                  | 16.67                   |
|                    | <b>12.06</b>       | <b>9.97</b>             | <b>4.64</b>               | <b>14.61</b>        | <b>1.32</b>         |                    |                  | <b>15.60</b>            |
|                    |                    | <i>10.00</i>            | <i>2.00</i>               | <i>12.00</i>        | <i>2.00</i>         |                    |                  | <i>13.00</i>            |
| 4667               | 12.81              | 7.79                    | 3.69                      | 11.48               | 1.29                | 1.79               | 1.59             | 21.26                   |
| 4668               | 12.73              | 7.47                    | 3.58                      | 11.05               | .64                 | 1.62               | 1.66             | 20.23                   |
|                    | <b>12.77</b>       | <b>7.63</b>             | <b>3.64</b>               | <b>11.27</b>        | <b>.96</b>          | <b>1.71</b>        | <b>1.62</b>      | <b>20.75</b>            |
|                    |                    | <i>7.00</i>             | <i>2.50</i>               | <i>9.50</i>         | <i>2.00</i>         | <i>1.65</i>        | <i>1.00</i>      | <i>17.93</i>            |
| 4142               | 13.00              | 8.66                    | 2.48                      | 11.14               | 1.89                | 1.50               | 1.21             | 19.58                   |
| 4669               | 11.64              | 7.60                    | 3.55                      | 11.15               | .54                 | 1.68               | 1.81             | 20.72                   |
|                    | <b>12.32</b>       | <b>8.13</b>             | <b>3.02</b>               | <b>11.15</b>        | <b>1.21</b>         | <b>1.59</b>        | <b>1.51</b>      | <b>20.15</b>            |
|                    |                    | <i>7.00</i>             | <i>2.50</i>               | <i>9.50</i>         | <i>2.00</i>         | <i>1.65</i>        | <i>1.00</i>      | <i>17.93</i>            |
| 4536               | 16.70              | 8.14                    | 4.12                      | 12.26               | 1.25                |                    | 3.62             | 17.92                   |
| 4670               | 14.95              | 8.30                    | 3.41                      | 11.71               | .36                 |                    | 2.43             | 16.14                   |
|                    | <b>15.82</b>       | <b>8.22</b>             | <b>3.77</b>               | <b>11.99</b>        | <b>.80</b>          |                    | <b>3.02</b>      | <b>17.03</b>            |
|                    |                    | <i>8.00</i>             | <i>2.00</i>               | <i>10.00</i>        | <i>2.00</i>         |                    | <i>2.00</i>      | <i>13.80</i>            |
| 4152               | 12.03              | 9.54                    | 2.74                      | 12.28               | 1.61                | 1.44               | 2.00             | 21.50                   |
|                    |                    | <i>8.00</i>             | <i>2.00</i>               | <i>10.00</i>        | <i>2.00</i>         | <i>1.65</i>        | <i>2.00</i>      | <i>19.58</i>            |
| 4475               | 13.89              | 10.23                   | 1.67                      | 11.90               | .77                 | 1.81               | 2.15             | 22.60                   |
| 4671               | 14.13              | 8.01                    | 1.75                      | 9.76                | .82                 | 1.62               | 1.97             | 19.18                   |
|                    | <b>14.01</b>       | <b>9.12</b>             | <b>1.71</b>               | <b>10.83</b>        | <b>.79</b>          | <b>1.72</b>        | <b>2.06</b>      | <b>20.89</b>            |
|                    |                    | <i>7.00</i>             | <i>2.50</i>               | <i>9.50</i>         | <i>2.00</i>         | <i>1.65</i>        | <i>1.00</i>      | <i>17.93</i>            |
| 4153               | 11.90              | 8.34                    | 2.53                      | 10.87               | 1.45                | 1.62               | 2.17             | 20.63                   |
| 4255               | 10.79              | 8.29                    | 2.97                      | 11.26               | 1.05                | 1.83               | 1.58             | 21.20                   |
| 4303               | 11.10              | 8.48                    | 2.25                      | 10.73               | 1.80                | 1.68               | 1.31             | 19.84                   |
| 4304               | 11.33              | 8.52                    | 3.45                      | 11.97               | .99                 | 1.66               | 1.50             | 21.33                   |
| 4395               | 12.49              | 8.24                    | 2.74                      | 10.98               | 2.19                | 1.71               | 2.22             | 21.11                   |
| 4672               | 10.95              | 8.14                    | 2.99                      | 11.13               | 1.14                | 1.70               | 1.55             | 20.56                   |
| 4673               | 12.00              | 7.19                    | 2.84                      | 10.03               | 2.12                | 1.97               | 1.99             | 20.64                   |
| 4674               | 11.85              | 8.42                    | 2.07                      | 10.49               | .63                 | 1.45               | 1.36             | 18.82                   |
|                    | <b>11.55</b>       | <b>8.20</b>             | <b>2.73</b>               | <b>10.93</b>        | <b>1.42</b>         | <b>1.70</b>        | <b>1.71</b>      | <b>20.52</b>            |
|                    |                    | <i>7.00</i>             | <i>2.50</i>               | <i>9.50</i>         | <i>2.00</i>         | <i>1.65</i>        | <i>1.00</i>      | <i>17.93</i>            |
| 4394               | 13.49              | 7.82                    | 3.74                      | 11.56               | 1.41                | 1.77               | 2.11             | 21.80                   |
|                    |                    | <i>7.00</i>             | <i>2.50</i>               | <i>9.50</i>         | <i>2.00</i>         | <i>1.65</i>        | <i>1.00</i>      | <i>17.93</i>            |
| 4305               | 9.00               | 9.68                    | 3.82                      | 13.50               | 7.82                |                    |                  | 14.47                   |
| 4675               | 10.14              | 7.62                    | 4.00                      | 11.62               | 1.40                |                    |                  | 12.38                   |
|                    | <b>9.57</b>        | <b>8.65</b>             | <b>3.91</b>               | <b>12.56</b>        | <b>4.61</b>         |                    |                  | <b>13.43</b>            |
|                    |                    | <i>10.00</i>            | <i>2.00</i>               | <i>12.00</i>        | <i>1.00</i>         |                    |                  | <i>13.00</i>            |
| 4306               | 8.59               | 5.81                    | 2.68                      | 8.49                | 4.85                | 1.69               | 2.68             | 18.52                   |
| 4307               | 9.16               | 6.74                    | 2.55                      | 9.29                | 4.30                | 1.53               | 2.43             | 18.68                   |

TABLE II—Analyses of Commercial Fertilizer

| Laboratory Number. | Name of Brand and Manufacturer.                            | Where and from Whom Collected.                                           |
|--------------------|------------------------------------------------------------|--------------------------------------------------------------------------|
| 4676               | S. G. Banner C. & C. Brand ..                              | Smith, Gaddis & Co., Forest.....<br>Average .....<br>Guarantee.....      |
| 4677               | S. G. Pine Land Guano .....                                | Newton Oil & M'fg. Co., Newton.....                                      |
| 4678               | S. G. Pine Land Guano .....                                | T. B. Gaddis, Morton.....<br>Average .....<br>Guarantee.....             |
|                    | PLANTERS FERTILIZER &<br>CHEMICAL Co.,<br>New Orleans, La. |                                                                          |
| 4518               | Planters S. G. Acid Phos. ....                             | Robinson Mer. Co., Centreville.....                                      |
| 4679               | Planters S. G. Acid Phos. ....                             | Hyman Mer. Co., Summit.....<br>Average .....<br>Guarantee.....           |
| 4519               | S. G. Planters Cotton & Corn<br>No. 1 .....                | Hyman Mer. Co., Summit.....                                              |
| 4680               | S. G. Planters Cotton & Corn<br>No. 1 .....                | Hyman Mer. Co., Summit.....<br>Average .....<br>Guarantee.....           |
| 4520               | S. G. Golden Home Mixture                                  | McLean & Ratcliff, Gloster.....                                          |
| 4681               | S. G. Golden Home Mixture                                  | C. Atkinson's Sons Co., Summit.....<br>Average .....<br>Guarantee.....   |
| 4521               | S. G. Planters R. B. Super-<br>phosphate .....             | Robinson Mer. Co., Centreville.....                                      |
| 4682               | S. G. Planters R. B. Super-<br>phosphate .....             | C. Atkinson's Sons Co., Summit.....<br>Average .....<br>Guarantee.....   |
| 4522               | Planters H.G. Vegetable Fert                               | J. C. Harvey, Gallman .....                                              |
|                    | REFUGE COTTON OIL Co.,<br>Columbus, Miss.                  |                                                                          |
| 4396               | H. G. Columbus Home Made                                   | Myers & Mehaffy, Steenston.....                                          |
| 4683               | H. G. Columbus Home Made                                   | T. W. Foard, Eupora.....<br>Average .....<br>Guarantee.....              |
| 4397               | S.G. Refuge Standard Guano                                 | Refuge Cotton Oil Co., Columbus.....                                     |
| 4684               | S.G. Refuge Standard Guano                                 | Clark & Co., Tupelo.....<br>Average .....<br>Guarantee.....              |
|                    | SHUBUTA OIL & M'F'G. Co.,<br>Shubuta, Miss.                |                                                                          |
| 4351               | H. G. Shubuta Acid Phos. ....                              | Shubuta Oil & M'fg. Co., Shubuta.....                                    |
| 4479               | H. G. Shubuta Acid Phos. ....                              | Shubuta Oil & M'fg. Co., Shubuta.....<br>Average .....<br>Guarantee..... |
| 4352               | S. G. Shubuta Mixture .....                                | Shubuta Oil & M'fg. Co., Shubuta.....                                    |

| Laboratory Number. | Moisture—Per Cent.    | Phosphoric Acid.        |                           |                       |                     | Nitrogen—Per Cent.  | Potash—Per Cent.    | Relative Value Per Ton. |
|--------------------|-----------------------|-------------------------|---------------------------|-----------------------|---------------------|---------------------|---------------------|-------------------------|
|                    |                       | Water Soluble Per Cent. | Citrate Soluble Per Cent. | Available Per Cent.   | Insoluble Per Cent. |                     |                     |                         |
| 4676               | 9.37<br><b>9.04</b>   | 6.04<br><b>6.20</b>     | 2.96<br><b>2.73</b>       | 9.00<br><b>8.93</b>   | 3.28<br><b>4.14</b> | 1.57<br><b>1.60</b> | 2.62<br><b>2.58</b> | 18.62<br><b>18.61</b>   |
|                    |                       | 7.00                    | 1.50                      | 8.50                  | 1.00                | 1.65                | 2.25                | 18.08                   |
| 4677               | 10.74                 | 6.88                    | 3.05                      | 9.93                  | 3.67                | 1.14                | 2.20                | 17.80                   |
| 4678               | 10.47<br><b>10.60</b> | 5.97<br><b>6.43</b>     | 3.07<br><b>3.06</b>       | 9.04<br><b>9.49</b>   | 3.62<br><b>3.64</b> | 1.54<br><b>1.34</b> | 2.89<br><b>2.55</b> | 18.82<br><b>18.31</b>   |
|                    |                       | 7.00                    | 1.50                      | 8.50                  | 1.00                | 1.65                | 2.25                | 18.08                   |
| 4518               | 13.47                 | 9.34                    | 4.23                      | 13.57                 | .95                 |                     |                     | 14.50                   |
| 4679               | 9.51<br><b>11.49</b>  | 9.38<br><b>9.36</b>     | 6.13<br><b>5.18</b>       | 15.51<br><b>14.54</b> | 3.36<br><b>2.15</b> |                     |                     | 16.45<br><b>15.48</b>   |
|                    |                       | 10.00                   | 2.00                      | 12.00                 | 2.00                |                     |                     | 13.00                   |
| 4519               | 11.41                 | 8.12                    | 2.50                      | 10.62                 | 2.99                | 1.48                | 1.81                | 19.48                   |
| 4680               | 10.89<br><b>11.15</b> | 7.70<br><b>7.91</b>     | 3.14<br><b>2.82</b>       | 10.84<br><b>10.73</b> | 2.49<br><b>2.74</b> | 1.53<br><b>1.51</b> | 1.84<br><b>1.82</b> | 19.89<br><b>19.69</b>   |
|                    |                       | 6.50                    | 2.50                      | 9.00                  | 2.00                | 1.65                | 1.00                | 17.33                   |
| 4520               | 10.83                 | 8.17                    | 2.82                      | 10.99                 | .60                 | 1.62                | 1.98                | 20.56                   |
| 4681               | 12.06<br><b>11.44</b> | 8.39<br><b>8.28</b>     | 2.47<br><b>2.64</b>       | 10.86<br><b>10.92</b> | 3.10<br><b>1.85</b> | 1.45<br><b>1.54</b> | 1.75<br><b>1.86</b> | 19.61<br><b>20.09</b>   |
|                    |                       | 7.00                    | 2.00                      | 9.00                  | 2.00                | 1.65                | 1.00                | 17.38                   |
| 4521               | 12.00                 | 7.70                    | 2.82                      | 10.52                 | .63                 | 2.36                | 1.47                | 22.07                   |
| 4682               | 12.92<br><b>12.46</b> | 7.16<br><b>7.43</b>     | 3.89<br><b>3.36</b>       | 11.05<br><b>10.79</b> | .59<br><b>.61</b>   | 1.64<br><b>2.00</b> | 1.67<br><b>1.57</b> | 20.28<br><b>21.18</b>   |
|                    |                       | 7.00                    | 2.00                      | 9.00                  | 2.00                | 1.65                | 1.00                | 17.38                   |
| 4522               | 10.27                 | 6.28                    | 3.23                      | 9.51                  | .73                 | 2.04                | 3.85                | 22.08                   |
|                    |                       | 5.00                    | 2.00                      | 7.00                  | 2.00                | 2.60                | 3.00                | 20.30                   |
| 4396               | 11.19                 | 8.20                    | 2.76                      | 10.96                 | 1.25                | 1.68                | 2.33                | 21.09                   |
| 4683               | 12.80<br><b>11.99</b> | 8.09<br><b>8.15</b>     | 2.95<br><b>2.85</b>       | 11.04<br><b>11.00</b> | 1.07<br><b>1.16</b> | 1.47<br><b>1.58</b> | 2.10<br><b>2.21</b> | 20.20<br><b>20.65</b>   |
|                    |                       | 8.00                    | 2.00                      | 10.00                 | 2.00                | 1.65                | 2.00                | 19.58                   |
| 4397               | 11.46                 | 7.46                    | 2.06                      | 9.52                  | 1.66                | 1.71                | 2.93                | 20.13                   |
| 4684               | 12.94<br><b>12.20</b> | 7.18<br><b>7.32</b>     | 3.08<br><b>2.57</b>       | 10.26<br><b>9.89</b>  | .42<br><b>1.04</b>  | 1.67<br><b>1.69</b> | 2.31<br><b>2.62</b> | 20.16<br><b>20.15</b>   |
|                    |                       | 6.00                    | 2.50                      | 8.50                  | 2.00                | 1.65                | 2.00                | 17.73                   |
| 4351               | 13.43                 | 10.52                   | 3.80                      | 14.32                 | 2.52                |                     |                     | 15.37                   |
| 4479               | 14.59<br><b>14.01</b> | 10.49<br><b>10.51</b>   | 3.66<br><b>3.73</b>       | 14.15<br><b>14.24</b> | 2.47<br><b>2.49</b> |                     |                     | 15.20<br><b>15.29</b>   |
|                    |                       | 10.00                   | 4.00                      | 14.00                 | 1.00                |                     |                     | 15.00                   |
| 4352               | 11.86                 | 6.75                    | 2.21                      | 8.96                  | 1.88                | 1.69                | 2.20                | 18.65                   |

TABLE II—Analyses of Commercial Fertilizer

| Laboratory Number. | Name of Brand and Manufacturer.                               | Where and from Whom Collected.                           |
|--------------------|---------------------------------------------------------------|----------------------------------------------------------|
| 4480               | S. G. Shubuta Mixture .....                                   | A. M. Seabrook, State Line.....<br>Average .....         |
|                    |                                                               | Guarantee.....                                           |
| 4481               | S. G. German Kainit .....                                     | Shubuta Oil & M'fg. Co., Shubuta.....                    |
| 4685               | S. G. German Kainit .....                                     | A. M. Seabrook, State Line.....<br>Average .....         |
|                    |                                                               | Guarantee.....                                           |
|                    | SOUTHERN OIL & FERTILIZER<br>COMPANY,<br>Meridian, Miss.      |                                                          |
| 4154               | Southern's S.G. Acid Phos.....                                | Meyer Bros., Meridian.....                               |
| 4686               | Southern's S.G. Acid Phos.....                                | Leakesville Mer. Co., Leakesville.....<br>Average .....  |
|                    |                                                               | Guarantee.....                                           |
| 271                | Southern's 20th Century H.<br>G. Acid Phosphate .....         | Southern Oil & Fert. Co., Meridian.....                  |
| 4687               | Southern's 20th Century H.<br>G. Acid Phosphate.....          | Weatherbee Huggins Co., Waynesboro<br>Average .....      |
|                    |                                                               | Guarantee.....                                           |
| 4155               | Southern's S. G. Cotton<br>Grower.....                        | G. L. Sansing, Newton.....                               |
| 4272               | Southern's S. G. Cotton<br>Grower.....                        | Southern Oil & Fert. Co., Meridian.....<br>Average ..... |
|                    |                                                               | Guarantee.....                                           |
| 4688               | S. G. Southern's Superior .....                               | M. Oates, Bay Springs.....                               |
| 4689               | S. G. Southern's Superior .....                               | Weatherbee Huggins Co., Waynesboro<br>Average .....      |
|                    |                                                               | Guarantee.....                                           |
|                    | STANDARD GUANO & CHEM-<br>ICAL M'FG. CO.,<br>New Orleans, La. |                                                          |
| 4156               | Stern's H.G. Acid Phos. ....                                  | C. Atkinson's Sons Co., Summit.....                      |
| 4181               | Stern's H. G. Acid Phos.....                                  | Barnes, Ruffin & Co., Columbia.....                      |
| 4273               | Stern's H. G. Acid Phos.....                                  | The Lampton Co., Columbia.....                           |
| 4344               | Stern's H. G. Acid Phos.....                                  | L. C. Smith, Lauderdale.....                             |
| 4368               | Stern's H. G. Acid Phos.....                                  | W. W. Brashears, Carpenter.....                          |
| 4523               | Stern's H. G. Acid Phos.....                                  | C. Atkinson's Sons Co., Summit.....                      |
| 4690               | Stern's H. G. Acid Phos.....                                  | Grunewald & Lowenberg, McCool.....<br>Average .....      |
|                    |                                                               | Guarantee.....                                           |
| 4398               | Stern's S. G. Acid Phos. ....                                 | Gilmore, May & Co., Amory.....                           |
| 4691               | Stern's S. G. Acid Phos. ....                                 | Hawkins & Co., Hattiesburg.....                          |
| 4692               | Stern's S. G. Acid Phos. ....                                 | E. M. Carter & Co., Centreville.....<br>Average .....    |
|                    |                                                               | Guarantee.....                                           |
| 4182               | S.G. Blood, Bone, and Meat                                    | The Lampton Co., Columbia.....                           |
| 4256               | S.G. Blood, Bone, and Meat                                    | Hyman Mercantile Co., Summit .....                       |

| Laboratory Number. | Moisture—Per Cent.    | Phosphoric Acid.                      |                                    |                                       |                                    | Nitrogen—Per Cent.                 | Potash—Per Cent.                      | Relative Value Per Ton.               |
|--------------------|-----------------------|---------------------------------------|------------------------------------|---------------------------------------|------------------------------------|------------------------------------|---------------------------------------|---------------------------------------|
|                    |                       | Water Soluble Per Cent.               | Citrate Soluble Per Cent.          | Available Per Cent.                   | Insoluble Per Cent.                |                                    |                                       |                                       |
| 4480               | 11.56<br><b>11.71</b> | 7.52<br><b>7.14</b><br><i>6.00</i>    | 2.71<br><b>2.46</b><br><i>3.00</i> | 10.23<br><b>9.60</b><br><i>9.00</i>   | 1.13<br><b>1.50</b><br><i>1.00</i> | 1.05<br><b>1.37</b><br><i>1.65</i> | 1.76<br><b>1.98</b><br><i>1.60</i>    | 17.44<br><b>18.05</b><br><i>17.88</i> |
| 4481               | 2.68                  |                                       |                                    |                                       |                                    |                                    | 13.20                                 | 13.20                                 |
| 4685               | 2.04<br><b>2.36</b>   |                                       |                                    |                                       |                                    |                                    | 12.10<br><b>12.65</b><br><i>12.00</i> | 12.10<br><b>12.65</b><br><i>12.00</i> |
| 4154               | 11.29                 | 8.41                                  | 4.56                               | 12.97                                 | 1.65                               |                                    |                                       | 13.81                                 |
| 4686               | 12.79<br><b>12.04</b> | 10.54<br><b>9.48</b><br><i>9.00</i>   | 3.88<br><b>4.22</b><br><i>3.00</i> | 14.42<br><b>13.70</b><br><i>12.00</i> | .51<br><b>1.08</b><br><i>2.00</i>  |                                    |                                       | 15.47<br><b>14.64</b><br><i>12.90</i> |
| 4271               | 9.74                  | 8.00                                  | 7.48                               | 15.48                                 | 3.35                               |                                    |                                       | 16.28                                 |
| 4687               | 13.32<br><b>11.53</b> | 10.20<br><b>9.10</b><br><i>10.00</i>  | 4.19<br><b>5.84</b><br><i>4.00</i> | 14.39<br><b>14.94</b><br><i>14.00</i> | .56<br><b>1.95</b><br><i>2.00</i>  |                                    |                                       | 15.41<br><b>15.85</b><br><i>15.00</i> |
| 4155               | 14.00                 | 4.46                                  | 6.26                               | 10.72                                 | 1.47                               | 1.87                               | 2.01                                  | 20.79                                 |
| 4272               | 9.08<br><b>11.54</b>  | 4.84<br><b>4.65</b><br><i>6.00</i>    | 4.70<br><b>5.48</b><br><i>3.00</i> | 9.54<br><b>10.13</b><br><i>9.00</i>   | 2.20<br><b>1.83</b><br><i>1.00</i> | 1.73<br><b>1.80</b><br><i>1.65</i> | 1.44<br><b>1.73</b><br><i>1.00</i>    | 18.47<br><b>19.63</b><br><i>17.28</i> |
| 4688               | 11.49                 | 6.61                                  | 2.38                               | 8.99                                  | .45                                | 1.53                               | 2.07                                  | 17.98                                 |
| 4689               | 11.46<br><b>11.47</b> | 5.72<br><b>6.17</b><br><i>5.00</i>    | 2.40<br><b>2.39</b><br><i>3.00</i> | 8.12<br><b>8.56</b><br><i>8.00</i>    | .60<br><b>.52</b><br><i>1.00</i>   | 1.82<br><b>1.68</b><br><i>1.65</i> | 2.30<br><b>2.18</b><br><i>2.00</i>    | 18.17<br><b>18.08</b><br><i>17.08</i> |
| 4156               | 14.56                 | 11.35                                 | 2.86                               | 14.21                                 | 3.16                               |                                    |                                       | 15.35                                 |
| 4181               | 15.15                 | 11.54                                 | 2.89                               | 14.43                                 | 3.25                               |                                    |                                       | 15.58                                 |
| 4273               | 10.17                 | 11.42                                 | 4.60                               | 16.02                                 | 2.51                               |                                    |                                       | 17.16                                 |
| 4344               | 13.32                 | 10.77                                 | 2.36                               | 13.13                                 | 4.66                               |                                    |                                       | 14.21                                 |
| 4368               | 11.50                 | 12.26                                 | 2.89                               | 15.15                                 | 3.59                               |                                    |                                       | 16.38                                 |
| 4523               | 11.64                 | 11.90                                 | 3.90                               | 15.80                                 | 2.23                               |                                    |                                       | 16.99                                 |
| 4690               | 12.07<br><b>12.63</b> | 11.18<br><b>11.49</b><br><i>12.00</i> | 4.15<br><b>3.38</b><br><i>2.00</i> | 15.33<br><b>14.87</b><br><i>14.00</i> | 2.03<br><b>3.06</b><br><i>2.00</i> |                                    |                                       | 16.45<br><b>16.02</b><br><i>15.20</i> |
| 4398               | 13.79                 | 12.17                                 | 2.80                               | 14.97                                 | 3.06                               |                                    |                                       | 16.19                                 |
| 4691               | 12.50                 | 10.29                                 | 5.29                               | 15.58                                 | 2.05                               |                                    |                                       | 16.61                                 |
| 4692               | 12.37<br><b>12.89</b> | 11.81<br><b>11.43</b><br><i>10.00</i> | 3.27<br><b>3.78</b><br><i>2.00</i> | 15.08<br><b>15.21</b><br><i>12.00</i> | 1.78<br><b>2.30</b><br><i>1.00</i> |                                    |                                       | 16.26<br><b>16.35</b><br><i>13.00</i> |
| 4182               | 14.35                 | 6.67                                  | 3.04                               | 9.71                                  | 3.35                               | 1.92                               | 1.51                                  | 19.58                                 |
| 4256               | 12.40                 | 7.11                                  | 3.44                               | 10.55                                 | 3.98                               | 1.33                               | 1.46                                  | 18.43                                 |

| Laboratory Number. | Name of Brand and Manufacturer.                 | Where and From Whom Collected.                                   |
|--------------------|-------------------------------------------------|------------------------------------------------------------------|
| 4693               | S.G. Blood, Bone, and Meat                      | Fernwood Lumber Co., Fernwood<br>Average .....<br>Guarantee..... |
| 4157               | S. G. Champion Farmer's<br>Choice .....         | G. Lowenberg & Co., Kosciusko .....                              |
| 4399               | S. G. Champion Farmer's<br>Choice .....         | Grunewald & Lowenberg, McCool .....                              |
| 4694               | S. G. Champion Farmer's<br>Choice .....         | R. W. Hinton Co., Lumberton .....                                |
| 4695               | S. G. Champion Farmer's<br>Choice .....         | Hawkins & Co., Hattiesburg .....                                 |
|                    |                                                 | Average .....<br>Guarantee.....                                  |
| 4158               | S. G. Miss. Home Guano .....                    | C. Atkinson's Sons Co., Summit .....                             |
| 4257               | S. G. Miss. Home Guano .....                    | Hyman Mercantile Co., Summit .....                               |
| 4345               | S. G. Miss. Home Guano .....                    | L. C. Smith, Lauderdale .....                                    |
| 4696               | S. G. Miss. Home Guano .....                    | Watts Mercantile Co., Sandersville .....                         |
| 4697               | S. G. Miss. Home Guano .....                    | Hudson & Co., Sumrall .....                                      |
| 4698               | S. G. Miss. Home Guano .....                    | C. C. Ewing, Aberdeen .....                                      |
| 4699               | S. G. Miss. Home Guano .....                    | Burkett, Burrow & Co., Columbia .....                            |
|                    |                                                 | Average .....<br>Guarantee.....                                  |
| 4183               | Pure Raw Ground Bone .....                      | The Lampton Co., Columbia .....                                  |
| 4274               | Pure Raw Ground Bone .....                      | Barnes, Ruffin & Co., Columbia .....                             |
| 4700               | Pure Raw Ground Bone .....                      | W. Atkinson & Bacot Co., Osyka .....                             |
|                    |                                                 | Average .....<br>Guarantee.....                                  |
| 4159               | S. G. Stern's Am. R. B.<br>Superphosphate ..... | Lampton-Rawls Co., Mt. Olive .....                               |
| 4184               | S. G. Stern's Am. R. B.<br>Superphosphate ..... | Barnes, Ruffin & Co., Columbia .....                             |
| 4185               | S. G. Stern's Am. R. B.<br>Superphosphate ..... | John McGrath & Sons, Brookhaven.....                             |
| 4186               | S. G. Stern's Am. R. B.<br>Superphosphate ..... | Holloway & McRaney, Collins .....                                |
| 4275               | S. G. Stern's Am. R. B.<br>Superphosphate ..... | The Lampton Co., Columbia .....                                  |
| 4276               | S. G. Stern's Am. R. B.<br>Superphosphate ..... | H. B. Lewis, Columbia .....                                      |
| 4308               | S. G. Stern's Am. R. B.<br>Superphosphate ..... | W. C. Ellis Co., Magee .....                                     |
| 4309               | S. G. Stern's Am. R. B.<br>Superphosphate ..... | F. M. Brooks, Magee .....                                        |
| 4346               | S. G. Stern's Am. R. B.<br>Superphosphate ..... | R. L. Berry & Bros., Prentiss .....                              |
| 4347               | S. G. Stern's Am. R. B.<br>Superphosphate ..... | Clark & Carter, Bassfield .....                                  |
| 4348               | S. G. Stern's Am. R. B.<br>Superphosphate ..... | W. C. Ellis Merc. Co., New Hebron .....                          |
| 4349               | S. G. Stern's Am. R. B.<br>Superphosphate ..... | Hawkins-McRaney Co., Bassfield .....                             |



| Laboratory Number. | Moisture—Per Cent. | Phosphoric Acid.        |                           |                     |                     | Nitrogen—Per Cent. | Potash—Per Cent. | Relative Value Per Ton. |
|--------------------|--------------------|-------------------------|---------------------------|---------------------|---------------------|--------------------|------------------|-------------------------|
|                    |                    | Water Soluble Per Cent. | Citrate Soluble Per Cent. | Available Per Cent. | Insoluble Per Cent. |                    |                  |                         |
| 4693               | 13.48              | 7.28                    | 3.35                      | 10.63               | 1.29                | 1.85               | 1.69             | 20.59                   |
|                    | <b>13.41</b>       | <b>7.02</b>             | <b>3.28</b>               | <b>10.30</b>        | <b>2.87</b>         | <b>1.70</b>        | <b>1.55</b>      | <b>19.53</b>            |
|                    |                    | 7.00                    | 2.50                      | 9.50                | 1.00                | 1.65               | 1.50             | 18.43                   |
| 4157               | 12.83              | 5.69                    | 3.87                      | 9.56                | 1.15                | 1.96               | 1.80             | 19.75                   |
| 4399               | 12.87              | 6.63                    | 3.65                      | 10.28               | 2.39                | 1.56               | 2.26             | 19.69                   |
| 4694               | 9.69               | 7.42                    | 3.11                      | 10.53               | 1.24                | 1.63               | 1.68             | 19.71                   |
| 4695               | 9.10               | 7.74                    | 1.90                      | 9.64                | .95                 | 2.10               | 1.49             | 20.22                   |
|                    | <b>11.12</b>       | <b>6.87</b>             | <b>3.13</b>               | <b>10.00</b>        | <b>1.44</b>         | <b>1.81</b>        | <b>1.81</b>      | <b>19.84</b>            |
|                    |                    | 7.00                    | 2.50                      | 9.50                | 1.00                | 1.65               | 1.00             | 17.93                   |
| 4158               | 9.64               | 6.17                    | 4.36                      | 10.53               | 1.23                | 1.68               | 2.25             | 20.33                   |
| 4257               | 11.30              | 7.56                    | 3.70                      | 11.26               | 4.17                | 1.19               | 1.38             | 18.69                   |
| 4345               | 11.80              | 7.61                    | 2.97                      | 10.58               | 4.31                | 1.21               | 1.57             | 18.20                   |
| 4696               | 9.72               | 8.64                    | 2.43                      | 11.07               | 2.24                | 1.54               | 1.31             | 19.74                   |
| 4697               | 10.77              | 8.57                    | 1.89                      | 10.46               | 1.69                | 1.33               | 2.23             | 19.25                   |
| 4698               | 11.57              | 8.24                    | 3.12                      | 11.36               | 3.86                | 1.22               | 1.65             | 19.24                   |
| 4699               | 11.03              | 8.25                    | 2.74                      | 10.99               | 1.60                | 1.81               | 2.26             | 21.51                   |
|                    | <b>10.83</b>       | <b>7.86</b>             | <b>3.03</b>               | <b>10.89</b>        | <b>2.73</b>         | <b>1.43</b>        | <b>1.80</b>      | <b>19.57</b>            |
|                    |                    | 7.00                    | 2.50                      | 9.50                | 1.00                | 1.65               | 1.50             | 18.43                   |
| 4183               | 5.23               |                         |                           |                     | 15.39               | 3.23               |                  | 19.00                   |
| 4274               | 6.72               |                         |                           |                     | 16.21               | 3.27               |                  | 19.55                   |
| 4700               | 7.19               |                         |                           |                     | 20.87               | 2.74               |                  | 20.03                   |
|                    | <b>6.38</b>        |                         |                           |                     | <b>17.49</b>        | <b>3.08</b>        |                  | <b>19.53</b>            |
|                    |                    |                         |                           |                     | 18.50               | 2.50               |                  | 18.00                   |
| 4159               | 12.71              | 5.50                    | 4.71                      | 10.21               | 1.16                | 1.54               | 1.76             | 18.93                   |
| 4184               | 14.85              | 6.37                    | 3.34                      | 9.71                | 2.57                | 1.63               | 1.48             | 18.50                   |
| 4185               | 13.38              | 5.71                    | 4.20                      | 9.91                | 1.87                | 1.56               | 1.66             | 18.59                   |
| 4186               | 9.70               | 6.49                    | 3.51                      | 10.00               | 1.78                | 1.61               | 1.62             | 18.90                   |
| 4275               | 11.87              | 8.17                    | 2.82                      | 10.99               | 3.06                | 1.48               | 1.46             | 19.55                   |
| 4276               | 12.71              | 8.71                    | 2.32                      | 11.03               | 2.64                | 1.45               | 1.57             | 19.65                   |
| 4308               | 13.06              | 5.64                    | 4.22                      | 9.86                | 1.59                | 1.56               | 1.80             | 18.67                   |
| 4309               | 12.07              | 7.24                    | 3.19                      | 10.43               | 3.58                | 1.49               | 1.48             | 18.89                   |
| 4346               | 13.36              | 7.34                    | 2.85                      | 10.19               | 2.52                | 1.43               | 1.63             | 18.58                   |
| 4347               | 11.28              | 7.68                    | 2.84                      | 10.52               | 3.56                | 1.57               | 1.63             | 19.47                   |
| 4348               | 12.63              | 5.72                    | 3.74                      | 9.46                | 2.34                | 1.56               | 1.73             | 18.17                   |
| 4349               | 11.80              | 8.01                    | 2.66                      | 10.67               | 3.38                | 1.42               | 1.70             | 19.21                   |

| Laboratory Number. | Name of Brand and Manufacturer.               | Where and From Whom Collected.             |
|--------------------|-----------------------------------------------|--------------------------------------------|
| 4524               | S. G. Stern's Am. R. B. Superphosphate .....  | C. Atkinson's Sons Co., Summit .....       |
| 4701               | S. G. Stern's Am. R. B. Superphosphate .....  | Dunagin & Whitaker Co., Laurel .....       |
| 4702               | S. G. Stern's Am. R. B. Superphosphate .....  | R. E. Wilkinson Mer. Co., Poplarville      |
| 4703               | S. G. Stern's Am. R. B. Superphosphate .....  | J. M. Kelley, Pratt .....                  |
| 4704               | S. G. Stern's Am. R. B. Superphosphate .....  | E. M. Carter & Co., Centreville .....      |
| 4705               | S. G. Stern's Am. R. B. Superphosphate .....  | I. N. Varnado, Osyka.....<br>Average ..... |
|                    |                                               | Guarantee.....                             |
| 4350               | S. G. Standard Am. Soluble Guano .....        | P. M. Catchings, Pinola .....              |
|                    |                                               | Guarantee.....                             |
| 4706               | H. G. Vegetable Fertilizer .....              | N. R. Hosey, Soso .....                    |
| 4707               | H. G. Vegetable Fertilizer .....              | Dunagin & Whitaker Co., Laurel .....       |
|                    |                                               | Average .....                              |
|                    |                                               | Guarantee.....                             |
| 4367               | S. G. German Kainit .....                     | W. W. Brashears, Carpenter .....           |
| 4400               | S. G. German Kainit .....                     | G. Lowenberg & Co., Kosciusko .....        |
| 4708               | S. G. German Kainit .....                     | C. Atkinson's Sons Co., Summit .....       |
|                    |                                               | Average .....                              |
|                    |                                               | Guarantee.....                             |
|                    | SWIFT FERTILIZER WORKS,<br>Atlanta, Ga.       |                                            |
| 4277               | Swift's H. G. Cultivator Acid Phosphate ..... | Watts Mer. Co., Sandersville.....          |
| 4709               | Swift's H. G. Cultivator Acid Phosphate ..... | Watts Mer. Co., Sandersville.....          |
|                    |                                               | Average .....                              |
|                    |                                               | Guarantee.....                             |
| 4278               | Swift's S. G. Cotton Plant Guano .....        | Watts Mer. Co., Sandersville.....          |
| 4710               | Swift's S. G. Cotton Plant Guano .....        | J. P. Myer, Ellisville.....                |
|                    |                                               | Average .....                              |
|                    |                                               | Guarantee.....                             |
| 4711               | Swift's Red Steer S. G. Guano .....           | W. L. Williamson & Co., Collins.....       |
| 4712               | Swift's Red Steer S. G. Guano .....           | Calhoon & Son, Coffeerville .....          |
|                    |                                               | Average .....                              |
|                    |                                               | Guarantee.....                             |
|                    | TENNESSEE CHEMICAL CO.,<br>Nashville, Tenn.   |                                            |
| 4161               | S. G. Ox Cotton Guano .....                   | A. J. Gaston, Ackerman .....               |

| Laboratory Number. | Moisture—Per Cent.    | Phosphoric Acid.                     |                                    |                                       |                                    | Nitrogen—Per Cent.                 | Potash—Per Cent.                      | Relative Value Per Ton.               |
|--------------------|-----------------------|--------------------------------------|------------------------------------|---------------------------------------|------------------------------------|------------------------------------|---------------------------------------|---------------------------------------|
|                    |                       | Water Soluble Per Cent.              | Citrate Soluble Per Cent.          | Available Per Cent.                   | Insoluble Per Cent.                |                                    |                                       |                                       |
| 4524               | 14.38                 | 6.17                                 | 4.11                               | 10.28                                 | 1.24                               | 1.63                               | 1.95                                  | 19.58                                 |
| 4701               | 11.15                 | 6.65                                 | 4.94                               | 11.59                                 | 2.46                               | 1.46                               | 1.62                                  | 20.14                                 |
| 4702               | 10.98                 | 6.29                                 | 4.56                               | 10.85                                 | 2.87                               | 1.50                               | 1.86                                  | 19.67                                 |
| 4703               | 11.12                 | 6.20                                 | 4.58                               | 10.78                                 | 1.61                               | 1.59                               | 2.06                                  | 20.10                                 |
| 4704               | 14.23                 | 7.64                                 | 3.07                               | 10.71                                 | 1.38                               | 1.61                               | 2.08                                  | 20.26                                 |
| 4705               | 15.56<br><b>12.60</b> | 7.16<br><b>6.82</b><br><i>7.00</i>   | 3.53<br><b>3.62</b><br><i>2.50</i> | 10.69<br><b>10.44</b><br><i>9.50</i>  | 1.34<br><b>2.27</b><br><i>1.00</i> | 1.57<br><b>1.54</b><br><i>1.65</i> | 1.92<br><b>1.72</b><br><i>1.50</i>    | 19.89<br><b>19.27</b><br><i>18.43</i> |
| 4350               | 17.05                 | 6.78<br><i>7.00</i>                  | 3.04<br><i>2.50</i>                | 9.82<br><i>9.50</i>                   | 1.74<br><i>1.00</i>                | 1.49<br><i>1.65</i>                | 1.76<br><i>1.50</i>                   | 18.46<br><i>18.43</i>                 |
| 4706               | 10.97                 | 3.99                                 | 3.29                               | 7.28                                  | 1.06                               | 2.63                               | 4.85                                  | 22.46                                 |
| 4707               | 11.63<br><b>11.30</b> | 6.46<br><b>5.23</b><br><i>5.00</i>   | 1.62<br><b>2.45</b><br><i>1.00</i> | 8.08<br><b>7.68</b><br><i>6.00</i>    | 1.13<br><b>1.10</b><br><i>1.00</i> | 2.64<br><b>2.64</b><br><i>3.00</i> | 5.96<br><b>5.40</b><br><i>5.00</i>    | 24.73<br><b>23.60</b><br><i>22.60</i> |
| 4367               | 1.26                  |                                      |                                    |                                       |                                    |                                    | 12.75                                 | 12.75                                 |
| 4400               | 2.22                  |                                      |                                    |                                       |                                    |                                    | 12.92                                 | 12.92                                 |
| 4708               | .54<br><b>1.34</b>    |                                      |                                    |                                       |                                    |                                    | 12.40<br><b>12.69</b><br><i>12.00</i> | 12.40<br><b>12.69</b><br><i>12.00</i> |
| 4277               | 14.61                 | 11.05                                | 3.99                               | 15.04                                 | 2.05                               |                                    |                                       | 16.15                                 |
| 4709               | 11.70<br><b>13.15</b> | 12.28<br><b>11.67</b><br><i>9.00</i> | 2.77<br><b>3.38</b><br><i>5.00</i> | 15.05<br><b>15.05</b><br><i>14.00</i> | 2.61<br><b>2.33</b><br><i>1.50</i> |                                    |                                       | 16.28<br><b>16.22</b><br><i>14.90</i> |
| 4278               | 10.36                 | 7.02                                 | 4.20                               | 11.22                                 | 2.05                               | 1.34                               | 1.24                                  | 18.97                                 |
| 4710               | 9.08<br><b>9.72</b>   | 5.72<br><b>6.37</b><br><i>6.00</i>   | 4.73<br><b>4.47</b><br><i>3.00</i> | 10.45<br><b>10.84</b><br><i>9.00</i>  | 1.50<br><b>1.77</b><br><i>1.50</i> | 1.82<br><b>1.58</b><br><i>1.65</i> | 1.75<br><b>1.50</b><br><i>1.00</i>    | 20.19<br><b>19.58</b><br><i>17.28</i> |
| 4711               | 8.47                  | 4.49                                 | 4.94                               | 9.43                                  | 1.87                               | 1.88                               | 3.03                                  | 20.43                                 |
| 4712               | 8.89<br><b>8.68</b>   | 5.92<br><b>5.21</b><br><i>5.50</i>   | 4.77<br><b>4.85</b><br><i>2.50</i> | 10.69<br><b>10.06</b><br><i>8.00</i>  | 1.24<br><b>1.55</b><br><i>1.50</i> | 1.54<br><b>1.71</b><br><i>1.65</i> | 3.00<br><b>3.01</b><br><i>2.00</i>    | 20.74<br><b>20.58</b><br><i>17.13</i> |
| 4161               | 9.35                  | 7.01                                 | 3.50                               | 10.51                                 | 2.33                               | 1.65                               | 1.13                                  | 19.17                                 |

| Laboratory Number. | Name of Brand and Manufacturer.                          | Where and From Whom Collected.         |
|--------------------|----------------------------------------------------------|----------------------------------------|
| 4713               | S. G. Ox Cotton Guano .....                              | Gaston Mercantile Co., Ackerman .....  |
|                    |                                                          | Average .....                          |
|                    |                                                          | Guarantee.....                         |
|                    | TENNESSEE VALLEY FERT.<br>COMPANY,<br>Florence, Ala.     |                                        |
| 4401               | S. G. Dissolved Bone .....                               | M. N. Franks, Steenston .....          |
|                    |                                                          | Guarantee.....                         |
| 4402               | S. G. King Cotton Grower ..                              | The Star, Booneville.....              |
| 4714               | S. G. King Cotton Grower ..                              | R. D. Hopper & Co., Tiplersville ..... |
| 4715               | S. G. King Cotton Grower ..                              | J. C. Callicutt, Iuka .....            |
| 4716               | S. G. King Cotton Grower ....                            | S. D. Bramlitt, Corinth .....          |
|                    |                                                          | Average .....                          |
|                    |                                                          | Guarantee.....                         |
| 4403               | H. G. Florence Fertilizer .....                          | W. L. Bourland, Amory.....             |
|                    |                                                          | Guarantee.....                         |
|                    | Sold by<br>THREEFOOT BROS. & Co.,<br>Meridian, Miss.     |                                        |
| 4162               | S. G. Prolific Acid Phos .....                           | Threefoot Bros. & Co., Meridian .....  |
|                    |                                                          | Guarantee.....                         |
| 4279               | Threefoot's H. G. English<br>Acid Phosphate .....        | Threefoot Bros. & Co., Meridian .....  |
| 4717               | Threefoot's H. G. English<br>Acid Phosphate .....        | F. H. Deays, Enterprise .....          |
|                    |                                                          | Average .....                          |
|                    |                                                          | Guarantee.....                         |
| 4163               | S. G. Threefoot's Improved<br>Mixture .....              | Threefoot Bros. & Co., Meridian .....  |
| 4280               | S. G. Threefoot's Improved<br>Mixture .....              | Threefoot Bros. & Co., Meridian .....  |
| 4718               | S. G. Threefoot's Improved<br>Mixture .....              | C. V. Aiken, DeSoto .....              |
|                    |                                                          | Average .....                          |
|                    |                                                          | Guarantee.....                         |
|                    | VIRGINIA - CAROLINA CHEM-<br>ICAL CO.,<br>Memphis, Tenn. |                                        |
| 4164               | S. G. I. X. L. Acid Phos .....                           | Meyer Bros., Meridian .....            |
| 4281               | S. G. I. X. L. Acid Phos .....                           | Meyer Bros., Meridian .....            |
| 4353               | S. G. I. X. L. Acid Phos .....                           | Davis & Buffkin, Buckatunna .....      |
| 4719               | S. G. I. X. L. Acid Phos .....                           | Mullens & Green, Amory .....           |
| 4720               | S. G. I. X. L. Acid Phos .....                           | A. G. Delmas, Scranton .....           |
|                    |                                                          | Average .....                          |
|                    |                                                          | Guarantee.....                         |
| 4165               | S. G. Royal Acid Phosphate                               | Winner, Klein & Co., Meridian .....    |
| 4187               | S. G. Royal Acid Phosphate                               | Winner, Klein & Co., Meridian .....    |
| 4721               | S. G. Royal Acid Phosphate                               | McCullar & Co., Booneville .....       |
|                    |                                                          | Average .....                          |
|                    |                                                          | Guarantee.....                         |
| 4404               | Scott's H. G. Acid Phos .....                            | Seward & Fancher, McCool .....         |

| Laboratory Number. | Moisture—Per Cent. | Phosphoric Acid.        |                           |                     |                     | Nitrogen—Per Cent. | Potash—Per Cent. | Relative Value Per Ton. |
|--------------------|--------------------|-------------------------|---------------------------|---------------------|---------------------|--------------------|------------------|-------------------------|
|                    |                    | Water Soluble Per Cent. | Citrate Soluble Per Cent. | Available Per Cent. | Insoluble Per Cent. |                    |                  |                         |
| 4713               | 10.30              | 8.00                    | 3.56                      | 11.56               | .59                 | 1.69               | 2.63             | 22.06                   |
|                    | 9.82               | 7.51                    | 3.53                      | 11.04               | 1.46                | 1.67               | 1.88             | 20.62                   |
|                    |                    | 6.00                    | 4.00                      | 10.00               | 1.00                | 1.65               | 1.00             | 18.38                   |
| 4401               | 14.44              | 9.90                    | 3.23                      | 13.13               | 2.35                |                    |                  | 14.12                   |
|                    |                    | 10.00                   | 2.00                      | 12.00               | 2.00                |                    |                  | 13.00                   |
| 4402               | 10.74              | 6.29                    | 2.75                      | 9.04                | 4.18                | 1.52               | 1.99             | 17.88                   |
| 4714               | 10.35              | 5.99                    | 5.64                      | 11.63               | 3.33                | 1.67               | 1.31             | 20.55                   |
| 4715               | 8.53               | 5.25                    | 3.76                      | 9.01                | 4.16                | 1.43               | 1.63             | 17.07                   |
| 4716               | 8.51               | 5.07                    | 4.76                      | 9.83                | 4.78                | 1.15               | 1.29             | 16.64                   |
|                    | 9.53               | 5.65                    | 4.23                      | 9.88                | 4.11                | 1.44               | 1.56             | 18.04                   |
|                    |                    | 7.00                    | 2.00                      | 9.00                | 2.00                | 1.65               | 1.00             | 17.38                   |
| 4403               | 10.16              | 6.29                    | 2.93                      | 9.22                | 4.73                | 1.86               | 2.00             | 19.28                   |
|                    |                    | 8.00                    | 2.00                      | 10.00               | 2.00                | 1.65               | 2.00             | 19.58                   |
|                    |                    |                         |                           |                     |                     |                    |                  |                         |
| 4162               | 19.34              | 10.29                   | 3.27                      | 13.56               | 1.18                |                    |                  | 14.59                   |
|                    |                    | 11.00                   | 2.00                      | 13.00               | 1.00                |                    |                  | 14.10                   |
| 4279               | 12.63              | 10.40                   | 6.21                      | 16.61               | .15                 |                    |                  | 17.65                   |
| 4717               | 10.95              | 10.12                   | 6.21                      | 16.33               | .70                 |                    |                  | 17.34                   |
|                    | 11.79              | 10.26                   | 6.21                      | 16.47               | .42                 |                    |                  | 17.50                   |
|                    |                    | 13.00                   | 2.00                      | 15.00               | 1.00                |                    |                  | 16.30                   |
| 4163               | 14.16              | 6.06                    | 2.20                      | 8.26                | 1.74                | 1.82               | 1.85             | 17.91                   |
| 4280               | 13.18              | 6.69                    | 2.83                      | 9.52                | 1.96                | 1.85               | 1.81             | 19.43                   |
| 4718               | 8.90               | 7.48                    | 2.53                      | 10.01               | 1.52                | 1.89               | 2.39             | 20.76                   |
|                    | 12.08              | 6.74                    | 2.52                      | 9.26                | 1.74                | 1.85               | 2.02             | 19.37                   |
|                    |                    | 7.50                    | 2.00                      | 9.50                | 2.00                | 1.67               | 1.50             | 18.55                   |
| 4164               | 11.58              | 9.44                    | 3.44                      | 12.88               | 2.85                |                    |                  | 13.82                   |
| 4281               | 10.72              | 8.35                    | 4.31                      | 12.66               | .69                 |                    |                  | 13.50                   |
| 4353               | 11.54              | 7.98                    | 4.86                      | 12.84               | 3.06                |                    |                  | 13.64                   |
| 4719               | 8.35               | 7.88                    | 6.80                      | 14.68               | 1.88                |                    |                  | 15.47                   |
| 4720               | 11.16              | 11.13                   | 1.45                      | 12.58               | 2.80                |                    |                  | 13.69                   |
|                    | 10.67              | 8.96                    | 4.17                      | 13.13               | 2.26                |                    |                  | 14.02                   |
|                    |                    | 9.00                    | 3.00                      | 12.00               | 2.00                |                    |                  | 12.90                   |
| 4165               | 11.65              | 10.26                   | 3.61                      | 13.87               | .51                 |                    |                  | 14.90                   |
| 4187               | 11.92              | 10.07                   | 5.24                      | 15.31               | .56                 |                    |                  | 16.32                   |
| 4721               | 7.72               | 7.91                    | 5.48                      | 13.39               | .60                 |                    |                  | 14.18                   |
|                    | 10.43              | 9.41                    | 4.78                      | 14.19               | .56                 |                    |                  | 15.13                   |
|                    |                    | 10.00                   | 2.00                      | 12.00               | 2.00                |                    |                  | 13.00                   |
| 4404               | 8.42               | 9.81                    | 4.38                      | 14.19               | 1.83                |                    |                  | 15.17                   |

| Laboratory Number. | Name of Brand and Manufacturer.                | Where and From Whom Collected.            |
|--------------------|------------------------------------------------|-------------------------------------------|
| 4722               | Scott's H. G. Acid Phos .....                  | O. Hopkins, Hickory.....<br>Average ..... |
|                    |                                                | Guarantee.....                            |
| 4188               | S. G. Mobile Double Eagle<br>Guano .....       | Clegg Bros., Mathiston .....              |
| 4723               | S. G. Mobile Double Eagle<br>Guano .....       | Nettleton Supply Co., Nettleton .....     |
| 4724               | S. G. Mobile Double Eagle<br>Guano .....       | Baldwyn Supply Co. Baldwyn.....           |
| 4725               | S. G. Mobile Double Eagle<br>Guano .....       | Tucker & Buford, Pickens .....            |
| 4726               | S. G. Mobile Double Eagle<br>Guano .....       | W. W. Harris & Son, Iuka .....            |
|                    |                                                | Average .....                             |
|                    |                                                | Guarantee.....                            |
| 4189               | S. G. Mobile R. B. Am.<br>Superphosphate ..... | Clegg Bros., Mathiston .....              |
| 4727               | S. G. Mobile R. B. Am.<br>Superphosphate ..... | Tucker & Buford, Pickens .....            |
| 4728               | S. G. Mobile R. B. Am.<br>Superphosphate ..... | T. W. Pylant, Purvis .....                |
|                    |                                                | Average .....                             |
|                    |                                                | Guarantee.....                            |
| 4166               | S.G.Mobile Standard Guano..                    | Meyer Bros., Meridian .....               |
| 4282               | S.G.Mobile Standard Guano..                    | Meyer Bros., Meridian .....               |
| 4729               | S.G.Mobile Standard Guano..                    | Myers & Mehaffey, Steenston .....         |
| 4730               | S.G.Mobile Standard Guano..                    | Barnett-Davis Supply Co., Booneville..    |
| 4731               | S.G.Mobile Standard Guano..                    | Gilmore, May & Co., Amory .....           |
|                    |                                                | Average .....                             |
|                    |                                                | Guarantee.....                            |
| 4354               | S. G. Royal Blood, Bone, and<br>Potash .....   | Donald Bros. Mer. Co., New Hebron ..      |
| 4732               | S. G. Royal Blood, Bone, and<br>Potash .....   | Finger, Tapp & Co., Falkner.....          |
| 4733               | S. G. Royal Blood, Bone, and<br>Potash .....   | Williams & Freeman, Sandersville .....    |
|                    |                                                | Average .....                             |
|                    |                                                | Guarantee.....                            |
| 4167               | S. G. Royal Cotton Boll<br>Guano .....         | Winner, Klein & Co., Meridian .....       |
| 4734               | S. G. Royal Cotton Boll<br>Guano .....         | L. L. Price, Toomsaba .....               |
|                    |                                                | Average .....                             |
|                    |                                                | Guarantee.....                            |
| 4310               | S. G. Scott's Gossypium<br>Phospho .....       | Donald Bros., Magee .....                 |
| 4355               | S. G. Scott's Gossypium<br>Phospho .....       | Donald Bros. Mer. Co., New Hebron....     |
| 4405               | S. G. Scott's Gossypium<br>Phospho .....       | Lann & Carter H'd'w. Co., Aberdeen        |

| Laboratory Number. | Moisture—Per Cent. | Phosphoric Acid.        |                           |                     |                     | Nitrogen—Per Cent. | Potash—Per Cent. | Relative Value Per Ton. |
|--------------------|--------------------|-------------------------|---------------------------|---------------------|---------------------|--------------------|------------------|-------------------------|
|                    |                    | Water Soluble Per Cent. | Citrate Soluble Per Cent. | Available Per Cent. | Insoluble Per Cent. |                    |                  |                         |
| 4722               | 9.06               | 8.76                    | 5.55                      | 14.31               | .46                 |                    |                  | 15.19                   |
|                    | <b>8.74</b>        | <b>9.29</b>             | <b>4.96</b>               | <b>14.25</b>        | <b>1.14</b>         |                    |                  | <b>15.18</b>            |
|                    |                    | <i>12.00</i>            | <i>2.00</i>               | <i>14.00</i>        | <i>2.00</i>         |                    |                  | <i>15.20</i>            |
| 4188               | 10.80              | 8.55                    | 2.31                      | 10.86               | 1.73                | 1.77               | 2.05             | 21.05                   |
| 4723               | 7.32               | 7.77                    | 3.07                      | 10.84               | 2.03                | 1.81               | 2.07             | 21.11                   |
| 4724               | 8.65               | 8.89                    | 2.57                      | 11.46               | .35                 | 1.78               | 1.90             | 21.63                   |
| 4725               | 9.42               | 8.43                    | 2.61                      | 11.04               | .73                 | 1.52               | 2.02             | 20.33                   |
| 4726               | 9.12               | 8.35                    | 3.68                      | 12.03               | 1.37                | 1.63               | 2.38             | 22.15                   |
|                    | <b>9.06</b>        | <b>8.40</b>             | <b>2.85</b>               | <b>11.25</b>        | <b>1.24</b>         | <b>1.70</b>        | <b>2.08</b>      | <b>21.25</b>            |
|                    |                    | <i>8.00</i>             | <i>2.00</i>               | <i>10.00</i>        | <i>2.00</i>         | <i>1.65</i>        | <i>1.50</i>      | <i>19.08</i>            |
| 4189               | 9.29               | 8.12                    | 3.00                      | 11.12               | 2.97                | 1.79               | 2.15             | 21.46                   |
| 4727               | 7.63               | 6.55                    | 3.46                      | 10.01               | 1.93                | 1.73               | 2.20             | 19.92                   |
| 4728               | 7.52               | 6.63                    | 4.34                      | 10.97               | 1.68                | 1.72               | 2.34             | 21.09                   |
|                    | <b>8.15</b>        | <b>7.10</b>             | <b>3.60</b>               | <b>10.70</b>        | <b>2.19</b>         | <b>1.75</b>        | <b>2.23</b>      | <b>20.83</b>            |
|                    |                    | <i>8.00</i>             | <i>2.00</i>               | <i>10.00</i>        | <i>2.00</i>         | <i>1.65</i>        | <i>1.50</i>      | <i>19.08</i>            |
| 4166               | 10.60              | 6.49                    | 2.61                      | 9.10                | 2.44                | 1.78               | 2.26             | 19.15                   |
| 4282               | 10.66              | 6.52                    | 2.84                      | 9.36                | 1.98                | 1.65               | 2.25             | 18.97                   |
| 4729               | 10.86              | 6.59                    | 4.46                      | 11.05               | 1.15                | 1.52               | 2.17             | 20.30                   |
| 4730               | 14.41              | 6.23                    | 3.86                      | 10.09               | .55                 | 1.68               | 2.43             | 20.03                   |
| 4731               | 8.33               | 6.58                    | 4.02                      | 10.60               | 1.45                | 1.82               | 2.00             | 20.69                   |
|                    | <b>10.97</b>       | <b>6.48</b>             | <b>3.56</b>               | <b>10.04</b>        | <b>1.51</b>         | <b>1.69</b>        | <b>2.22</b>      | <b>19.83</b>            |
|                    |                    | <i>6.00</i>             | <i>2.50</i>               | <i>8.50</i>         | <i>2.00</i>         | <i>1.65</i>        | <i>2.00</i>      | <i>17.73</i>            |
| 4354               | 12.62              | 9.02                    | 2.37                      | 11.39               | 2.33                | 1.76               | 2.30             | 21.89                   |
| 4732               | 11.40              | 7.60                    | 4.76                      | 12.36               | .93                 | 1.52               | 1.77             | 21.45                   |
| 4733               | 11.20              | 7.34                    | 4.23                      | 11.57               | 1.66                | 1.78               | 1.97             | 21.66                   |
|                    | <b>11.74</b>       | <b>7.99</b>             | <b>3.78</b>               | <b>11.77</b>        | <b>1.64</b>         | <b>1.69</b>        | <b>2.01</b>      | <b>21.67</b>            |
|                    |                    | <i>8.00</i>             | <i>2.00</i>               | <i>10.00</i>        | <i>2.00</i>         | <i>1.65</i>        | <i>1.50</i>      | <i>19.08</i>            |
| 4167               | 13.91              | 7.74                    | 2.86                      | 10.60               | 2.26                | 1.44               | 2.61             | 20.08                   |
| 4734               | 9.86               | 6.06                    | 3.31                      | 9.37                | 1.91                | 1.55               | 1.96             | 18.30                   |
|                    | <b>11.88</b>       | <b>6.90</b>             | <b>3.09</b>               | <b>9.99</b>         | <b>2.08</b>         | <b>1.50</b>        | <b>2.28</b>      | <b>19.19</b>            |
|                    |                    | <i>6.00</i>             | <i>2.50</i>               | <i>8.50</i>         | <i>2.00</i>         | <i>1.65</i>        | <i>2.00</i>      | <i>17.73</i>            |
| 4310               | 10.35              | 7.16                    | 2.84                      | 10.00               | 2.64                | 1.65               | 1.74             | 19.23                   |
| 4355               | 14.12              | 9.29                    | 2.81                      | 12.10               | 1.46                | 1.23               | 1.97             | 20.51                   |
| 4405               | 11.24              | 8.16                    | 2.93                      | 11.09               | 1.59                | 1.82               | 1.94             | 21.33                   |

TABLE II—Analyses of Commercial Fertilizer

| Laboratory Number. | Name of Brand and Manufacturer.                   | Where and From Whom Collected.                 |
|--------------------|---------------------------------------------------|------------------------------------------------|
| 4406               | S. G. Scott's Gossypium Phospho .....             | Seward & Fancher, McCool .....                 |
| 4526               | S. G. Scott's Gossypium Phospho .....             | Wagner & Co., Water Valley .....               |
| 4735               | S. G. Scott's Gossypium Phospho .....             | Summit Mer. Co., Summit.....                   |
| 4736               | S. G. Scott's Gossypium Phospho .....             | W. H. Wood, Pontotoc.....                      |
| 4737               | S. G. Scott's Gossypium Phospho .....             | Crawford Bros., Seminary .....                 |
| 4738               | S. G. Scott's Gossypium Phospho .....             | J. A. Moody, Poplarville.....                  |
| 4739               | S. G. Scott's Gossypium Phospho .....             | McComb City Mer. Co., McComb City              |
| 440                | S. G. Scott's Gossypium Phospho .....             | D. J. Cochran, Starkville .....                |
| 4746               | S. G. Scott's Gossypium Phospho .....             | W. W. Cain, West.....<br>Average .....         |
|                    |                                                   | Guarantee.....                                 |
| 4407               | H. G. Scott's Potasso Phospho .....               | J. Niles Boyd, Kosciusko.....                  |
| 4741               | H. G. Scott's Potasso Phospho .....               | J. Niles Boyd, Kosciusko.....<br>Average ..... |
|                    |                                                   | Guarantee.....                                 |
| 4747               | H. G. V.-C. Co's. Truck Grower.....               | W. W. Cain, West.....<br>Guarantee.....        |
| 4742               | S. G. German Kainit .....                         | Tupelo Merc. Co., Tupelo .....                 |
| 4743               | S. G. German Kainit .....                         | Winner, Klein & Co., Meridian .....            |
|                    |                                                   | Average .....                                  |
|                    |                                                   | Guarantee.....                                 |
|                    | WESSON COTTON OIL & FERTILIZER Co., Wesson, Miss. |                                                |
| 4744               | S. G. Mutual Friend Mixture..                     | Wesson Cotton Oil & Fert. Co., Wes'n           |
| 4745               | S. G. Mutual Friend Mixture..                     | J. C. Harvey, Gallman .....                    |
|                    |                                                   | Average .....                                  |
|                    |                                                   | Guarantee.....                                 |



| Laboratory Number. | Moisture—Per Cent.    | Phosphoric Acid.            |                             |                                |                            | Nitrogen—Per Cent.          | Potash—Per Cent.               | Relative Value Per Ton.        |
|--------------------|-----------------------|-----------------------------|-----------------------------|--------------------------------|----------------------------|-----------------------------|--------------------------------|--------------------------------|
|                    |                       | Water Soluble Per Cent.     | Citrate Soluble Per Cent.   | Available Per Cent.            | Insoluble Per Cent.        |                             |                                |                                |
| 4406               | 12.54                 | 8.65                        | 2.92                        | 11.57                          | .67                        | 1.84                        | 1.99                           | 22.02                          |
| 4526               | 13.07                 | 8.20                        | 2.75                        | 10.95                          | 2.15                       | 1.63                        | 2.04                           | 20.61                          |
| 4735               | 11.35                 | 7.97                        | 3.97                        | 11.94                          | .70                        | 1.82                        | 1.85                           | 22.15                          |
| 4736               | 10.49                 | 8.24                        | 2.97                        | 11.21                          | 1.37                       | 1.72                        | 2.13                           | 21.31                          |
| 4737               | 11.41                 | 7.98                        | 2.74                        | 10.72                          | .61                        | 1.57                        | 2.04                           | 20.13                          |
| 4738               | 12.35                 | 8.41                        | 2.71                        | 11.12                          | 1.00                       | 1.52                        | 1.55                           | 19.94                          |
| 4739               | 11.61                 | 7.89                        | 2.24                        | 10.13                          | 1.38                       | 1.74                        | 1.99                           | 20.01                          |
| 4740               | 10.44                 | 7.62                        | 3.83                        | 11.45                          | 1.57                       | 1.69                        | 1.91                           | 21.18                          |
| 4746               | 15.46<br><b>12.03</b> | 6.40<br><b>8.00</b><br>8.00 | 3.22<br><b>2.99</b><br>2.00 | 9.62<br><b>10.99</b><br>10.00  | .47<br><b>1.30</b><br>2.00 | 1.63<br><b>1.65</b><br>1.65 | 2.00<br><b>1.93</b><br>1.50    | 18.93<br><b>20.61</b><br>19.08 |
| 4407               | 15.00                 | 10.45                       | 2.21                        | 12.66                          | 1.20                       |                             | 1.99                           | 16.96                          |
| 4741               | 12.87<br><b>13.93</b> | 6.58<br><b>8.52</b><br>9.00 | 6.02<br><b>4.11</b><br>3.00 | 12.60<br><b>12.63</b><br>12.00 | .59<br><b>.89</b><br>2.00  |                             | 2.13<br><b>2.06</b><br>2.00    | 16.65<br><b>16.81</b><br>16.10 |
| 4747               | 9.22                  | 6.87<br>6.00                | 1.52<br>2.00                | 8.39<br>8.00                   | 1.61<br>2.00               | 1.82<br>2.06                | 6.86<br>6.00                   | 23.15<br>22.61                 |
| 4742               | 2.67                  |                             |                             |                                |                            |                             | 12.00                          | 12.00                          |
| 4743               | 4.44<br><b>3.55</b>   |                             |                             |                                |                            |                             | 12.44<br><b>12.22</b><br>12.00 | 12.44<br><b>12.22</b><br>12.00 |
| 4744               | 11.58                 | 7.06                        | 3.70                        | 10.76                          | .79                        | 1.73                        | 2.89                           | 21.49                          |
| 4745               | 12.87<br><b>12.22</b> | 7.82<br><b>7.44</b><br>7.00 | 3.53<br><b>3.61</b><br>2.00 | 11.35<br><b>11.05</b><br>9.00  | .81<br><b>.80</b><br>1.00  | 1.54<br><b>1.64</b><br>1.65 | 2.66<br><b>2.77</b><br>2.00    | 21.32<br><b>21.40</b><br>18.38 |

TABLE III.—Analyses of Brands of Fertilizers Registered for Sale in the State, with Guarantees for Season 1904-05.

| Laboratory Number. | Name of Brand and Address of Manufacturer.                                               | Laboratory Number. | Moisture—Per Cent. | Phosphoric Acid.        |                           |                     |                     | Nitrogen—Per Cent. | Potash—Per Cent. | Relative Value Per Ton. |
|--------------------|------------------------------------------------------------------------------------------|--------------------|--------------------|-------------------------|---------------------------|---------------------|---------------------|--------------------|------------------|-------------------------|
|                    |                                                                                          |                    |                    | Water Soluble Per Cent. | Citrate Soluble Per Cent. | Available Per Cent. | Insoluble Per Cent. |                    |                  |                         |
| 4036               | ALABAMA CHEMICAL COMPANY, Montgomery, Ala.<br>H. G. Rex Dissolved Bone<br>Guarantee      | 4036               | 8.28               | 12.57                   | 5.15                      | 17.72               | .50                 |                    | \$18.98          |                         |
| 4038               | H. G. Big Boll Acid Potash<br>Guarantee                                                  | 4038               | 9.41               | 11.66                   | 4.84                      | 16.50               | .40                 | 1.19               | 15.10            |                         |
| 4037               | S. G. Excelsior Acid Potash<br>Guarantee                                                 | 4037               | 8.24               | 9.63                    | 4.18                      | 13.81               | .35                 | 1.00               | 20.51            |                         |
| 4231               | S. G. Big Boll Guano.<br>Guarantee                                                       | 4231               | 9.45               | 8.64                    | 2.15                      | 10.79               | 1.31                | .92                | 16.30            |                         |
| 4040               | H. G. Excelsior Guano.<br>Guarantee                                                      | 4040               | 8.05               | 9.84                    | 3.47                      | 13.31               | 2.00                | 3.59               | 17.52            |                         |
| 4041               | S. G. Liberty Bell Guano<br>Guarantee                                                    | 4041               | 5.51               | 7.21                    | 3.78                      | 10.99               | .36                 | 2.98               | 19.47            |                         |
| 4042               | H. G. Southern Cross Guano<br>Guarantee                                                  | 4042               | 7.51               | 6.00                    | 2.00                      | 8.00                | 2.00                | 2.55               | 19.58            |                         |
| 4212               | AMERICAN GUANO COMPANY, Nashville, Tenn.<br>S. G. Mule Brand Acid Phosphate<br>Guarantee | 4212               | 11.71              | 8.31                    | 3.62                      | 11.93               | 3.13                | 2.00               | 17.00            |                         |
| 4213               | Mule Brand H. G. Dissolved Bone<br>Guarantee                                             | 4213               | 13.81              | 11.74                   | 2.97                      | 14.71               | 2.00                | 5.34               | 15.88            |                         |
| 4214               | S. G. Mule Brand Acid Phosphate and Potash<br>Guarantee                                  | 4214               | 11.11              | 9.00                    | 5.00                      | 14.00               | 1.00                | 7.02               | 17.00            |                         |
| 4215               | H. G. Mule Brand Klondyke Acid Phosphate and Potash<br>Guarantee                         | 4215               | 11.32              | 6.00                    | 4.00                      | 10.00               | 1.00                | 7.02               | 13.60            |                         |
|                    |                                                                                          |                    |                    | 5.92                    | 4.45                      | 10.37               | 2.86                | 4.00               | 19.02            |                         |
|                    |                                                                                          |                    |                    | 6.00                    | 4.00                      | 10.00               | 1.00                | 4.00               | 15.60            |                         |





|                                                                    |                                                |      |       |       |      |       |      |       |  |
|--------------------------------------------------------------------|------------------------------------------------|------|-------|-------|------|-------|------|-------|--|
| 4017                                                               | S. G. Acid Phosphate                           | 4017 | 11.18 | 9.30  | 3.30 | 12.60 | .87  | 13.53 |  |
|                                                                    | Guarantee                                      |      |       | 10.00 | 2.00 | 12.00 | 1.00 | 19.00 |  |
| 4018                                                               | H. G. Bone Meal                                | 4018 | 2.52  |       |      |       | 2.61 | 22.48 |  |
|                                                                    | Guarantee                                      |      |       |       |      |       | 2.50 | 21.25 |  |
| 4019                                                               | S. G. Cotton Elevator                          | 4019 | 9.90  | 6.49  | 2.51 | 9.00  | .45  | 18.43 |  |
|                                                                    | Guarantee                                      |      |       | 6.50  | 1.50 | 8.00  | 1.65 | 17.23 |  |
| 4020                                                               | S. G. Mississippi Guano                        | 4020 | 9.80  | 7.59  | 1.43 | 9.02  | .39  | 18.59 |  |
|                                                                    | Guarantee                                      |      |       | 6.50  | 1.50 | 8.00  | 1.00 | 17.23 |  |
| 4021                                                               | S. G. Nonpariel                                | 4021 | 9.79  | 6.25  | 2.65 | 8.90  | .44  | 18.39 |  |
|                                                                    | Guarantee                                      |      |       | 6.50  | 1.50 | 8.00  | 1.00 | 17.23 |  |
| 4022                                                               | S. G. Red Star Brand                           | 4022 | 10.12 | 6.40  | 2.94 | 9.34  | .35  | 18.73 |  |
|                                                                    | Guarantee                                      |      |       | 6.50  | 1.50 | 8.00  | 1.00 | 17.23 |  |
| 4023                                                               | H. G. Vegetable Grover                         | 4023 | 9.53  | 7.36  | 3.21 | 10.57 | .43  | 23.16 |  |
|                                                                    | Guarantee                                      |      |       | 5.00  | 2.00 | 7.00  | 1.00 | 20.95 |  |
| 4024                                                               | S. G. German Kainit                            | 4024 | 1.35  |       |      |       |      | 15.59 |  |
|                                                                    | Guarantee                                      |      |       |       |      |       |      | 12.00 |  |
| CONTINENTAL FERTILIZER COMPANY, Nashville, Tenn.                   |                                                |      |       |       |      |       |      |       |  |
| 4317                                                               | S. G. Sunny South Acid Phosphate               | 4317 | 10.31 | 8.26  | 4.87 | 13.13 | 1.01 | 13.96 |  |
|                                                                    | Guarantee                                      |      |       | 8.00  | 5.00 | 13.00 | 1.00 | 13.80 |  |
| 4318                                                               | S. G. Eddystone Soluble Guano                  | 4318 | 8.51  | 5.75  | 4.65 | 10.40 | 1.36 | 18.76 |  |
|                                                                    | Guarantee                                      |      |       | 6.00  | 3.00 | 9.00  | 1.00 | 17.28 |  |
| CRYSTAL SPRINGS OIL MILL, FEET. & MFG. CO., Crystal Springs, Miss. |                                                |      |       |       |      |       |      |       |  |
| 4445                                                               | Crystal H. G. Acid Phosphate                   | 4445 | 11.19 | 11.94 | 4.60 | 16.54 | .93  | 17.73 |  |
|                                                                    | Guarantee                                      |      |       | 12.00 | 2.00 | 14.00 | 2.00 | 15.20 |  |
| 4109                                                               | S. G. Crystal Star                             | 4109 | 7.18  | 7.93  | 2.81 | 10.74 | 1.94 | 21.01 |  |
|                                                                    | Guarantee                                      |      |       | 7.00  | 2.50 | 9.50  | 1.00 | 19.00 |  |
| 4208                                                               | H. G. Crystal Vegetable Grover                 | 4208 | 7.44  | 5.21  | 2.96 | 8.17  | .49  | 24.51 |  |
|                                                                    | Guarantee                                      |      |       | 3.00  | 3.00 | 6.00  | 1.00 | 21.40 |  |
| 4222                                                               | S. G. Lotterhos & Huber's Cotton Fertilizer    | 4222 | 10.79 | 6.83  | 3.30 | 10.13 | .71  | 21.05 |  |
|                                                                    | Guarantee                                      |      |       | 6.50  | 1.50 | 8.00  | .50  | 17.58 |  |
| 4223                                                               | H. G. Lotterhos & Huber's Vegetable Fertilizer | 4223 | 7.66  | 4.62  | 2.98 | 7.60  | .53  | 26.81 |  |
|                                                                    | Guarantee                                      |      |       | 4.00  | 1.00 | 5.00  | .60  | 21.40 |  |
| 4446                                                               | S. G. German Kainit                            | 4446 | 3.42  |       |      |       |      | 12.75 |  |
|                                                                    | Guarantee                                      |      |       |       |      |       |      | 12.00 |  |
| EAGLE COTTON OIL CO., Meridian, Miss.                              |                                                |      |       |       |      |       |      |       |  |
| 4238                                                               | Eagle H. G. Acid Phosphate                     | 4238 | 10.63 | 10.35 | 4.60 | 14.95 | .58  | 15.99 |  |
|                                                                    | Guarantee                                      |      |       | 11.50 | 2.50 | 14.00 | 1.50 | 15.15 |  |
| 4488                                                               | Eagle H. G. Acid Phosphate                     | 4488 | 10.06 | 10.82 | 3.62 | 14.44 | 1.34 | 15.52 |  |
|                                                                    | Guarantee                                      |      |       | 10.00 | 4.00 | 14.00 | .50  | 15.00 |  |

TABLE III—Analyses of Brands of Fertilizers Registered for Sale in the State, with Guarantees for Season 1904-05.

| Laboratory Number. | Name of Brand and Address of Manufacturer.                                                       | Laboratory Number | Moisture—Per Cent. | Phosphoric Acid.        |                           |                     |                     | Nitrogen—Per Cent. | Potash—Per Cent. | Relative Value Per Ton. |
|--------------------|--------------------------------------------------------------------------------------------------|-------------------|--------------------|-------------------------|---------------------------|---------------------|---------------------|--------------------|------------------|-------------------------|
|                    |                                                                                                  |                   |                    | Water Soluble Per Cent. | Citrate Soluble Per Cent. | Available Per Cent. | Insoluble Per Cent. |                    |                  |                         |
| 4239               | S. G. Farm Mixture                                                                               | 4239              | 10.37              | 7.06                    | 2.38                      | 9.44                | .55                 | 1.73               | 2.50             | 19.65                   |
|                    | Guarantee                                                                                        |                   |                    | 6.00                    | 2.00                      | 8.00                | 1.00                | 1.65               | 2.00             | 17.18                   |
| 4240               | H. G. Farm Mixture                                                                               | 4240              | 8.75               | 7.84                    | 3.67                      | 11.51               | .56                 | 1.79               | 1.41             | 21.12                   |
|                    | Guarantee                                                                                        |                   |                    | 8.00                    | 2.00                      | 10.00               | 1.00                | 1.65               | 2.00             | 19.58                   |
| 4489               | S. G. German Kainit                                                                              | 4489              | 3.36               |                         |                           |                     |                     |                    | 12.13            | 12.13                   |
|                    | Guarantee                                                                                        |                   |                    |                         |                           |                     |                     |                    | 12.00            | 12.00                   |
|                    | FEDERAL CHEMICAL COMPANY, Louisville, Ky.,<br>MARKS & GAYLE, Division Managers, Montgomery, Ala. |                   |                    |                         |                           |                     |                     |                    |                  |                         |
| 4081               | Daybreak Pure H. G. Acid Phosphate.                                                              | 4081              | 8.78               | 10.08                   | 5.64                      | 15.72               | .40                 |                    |                  | 16.73                   |
|                    | Guarantee                                                                                        |                   |                    | 10.00                   | 4.00                      | 14.00               | 1.00                |                    |                  | 15.00                   |
| 4082               | Daybreak Pure H. G. Acid Phosphate No. 2                                                         | 4082              | 11.18              | 11.43                   | 5.64                      | 17.07               | .50                 |                    |                  | 18.21                   |
|                    | Guarantee                                                                                        |                   |                    | 10.67                   | 5.33                      | 16.00               | 1.00                |                    |                  | 17.07                   |
| 4083               | Daybreak S. G. Acid Phosphate with Potash No. 2                                                  | 4083              | 8.66               | 7.16                    | 4.69                      | 11.85               | .59                 |                    | 2.78             | 16.53                   |
|                    | Guarantee                                                                                        |                   |                    | 8.00                    | 2.00                      | 10.00               | 1.00                |                    | 2.00             | 13.80                   |
| 4084               | Daybreak Pure H. G. Acid Phosphate with Potash No. 3                                             | 4084              | 11.79              | 7.97                    | 3.85                      | 11.82               | .30                 |                    | 4.13             | 17.93                   |
|                    | Guarantee                                                                                        |                   |                    | 6.67                    | 3.33                      | 10.00               | 1.00                |                    | 4.00             | 15.67                   |
| 4085               | S. G. Daybreak Fertilizer                                                                        | 4085              | 8.94               | 7.73                    | 3.71                      | 11.44               | .58                 | 1.97               | 2.50             | 22.75                   |
|                    | Guarantee                                                                                        |                   |                    | 5.33                    | 2.67                      | 8.00                | 1.00                | 1.65               | 2.00             | 17.11                   |
| 4086               | H. G. Daybreak Fertilizer "A 1"                                                                  | 4086              | 10.47              | 10.70                   | 4.52                      | 15.22               | .21                 | 1.22               | 2.81             | 24.89                   |
|                    | Guarantee                                                                                        |                   |                    | 8.67                    | 4.33                      | 13.00               | 1.00                | .82                | 2.00             | 20.04                   |
| 4087               | H. G. Daybreak Fertilizer "A A"                                                                  | 4087              | 9.91               | 8.25                    | 4.15                      | 12.40               | .27                 | 1.48               | 2.41             | 22.06                   |
|                    | Guarantee                                                                                        |                   |                    | 7.33                    | 3.67                      | 11.00               | 1.00                | .82                | 2.00             | 17.70                   |
| 4088               | The Complete H. G. Fertilizer                                                                    | 4088              | 8.91               | 7.19                    | 3.70                      | 10.89               | .54                 | 2.09               | 2.42             | 22.43                   |
|                    | Guarantee                                                                                        |                   |                    | 6.67                    | 3.33                      | 10.00               | 1.00                | 1.65               | 2.00             | 19.44                   |

|                                                              | 4089      | .87   |       |      |       |      |  |  |  | 12.13 | 12.13 |       |
|--------------------------------------------------------------|-----------|-------|-------|------|-------|------|--|--|--|-------|-------|-------|
| 4089 S. G. German Kainit                                     | Guarantee |       |       |      |       |      |  |  |  |       | 12.00 | 12.00 |
| (GULFPORT COTTON OIL, FERTILIZER & MFG. CO., Gulfport, Miss. |           |       |       |      |       |      |  |  |  |       |       |       |
| 4091 Primo H. G. Acid Phosphate                              | Guarantee | 12.13 | 10.81 | 6.82 | 17.63 | .40  |  |  |  |       |       | 18.71 |
|                                                              | Guarantee |       | 14.00 | 2.00 | 16.00 | 1.00 |  |  |  |       |       | 17.40 |
| 4092 Primo H. G. Acid Phosphate and Potash                   | Guarantee | 10.25 | 7.14  | 3.30 | 10.44 | .45  |  |  |  |       | 4.43  | 16.63 |
|                                                              | Guarantee |       | 8.00  | 2.00 | 10.00 | 1.50 |  |  |  |       | 4.00  | 15.80 |
| 4093 Primo H. G. R. B. Superphosphate                        | Guarantee | 8.66  | 7.42  | 2.80 | 10.22 | .58  |  |  |  | 2.17  | 2.10  | 21.68 |
|                                                              | Guarantee |       | 8.00  | 2.00 | 10.00 | 1.00 |  |  |  | 1.65  | 2.00  | 19.58 |
| 4094 Primo H. G. Blood & Bone                                | Guarantee | 7.88  | 7.44  | 2.56 | 10.00 | .91  |  |  |  | 2.24  | 2.12  | 21.70 |
|                                                              | Guarantee |       | 8.00  | 2.00 | 10.00 | 1.00 |  |  |  | 1.65  | 2.00  | 19.58 |
| 4095 Primo S. G. R. B. Superphosphate                        | Guarantee | 6.31  | 6.11  | 2.39 | 8.50  | .32  |  |  |  | 2.52  | 2.11  | 20.89 |
|                                                              | Guarantee |       | 6.00  | 2.00 | 8.00  | 1.00 |  |  |  | 2.00  | 2.00  | 17.18 |
| 4096 Primo S. G. Cottonseed Meal Compound                    | Guarantee | 8.23  | 5.50  | 2.85 | 8.35  | .40  |  |  |  | 1.62  | 1.81  | 17.22 |
|                                                              | Guarantee |       | 6.00  | 2.00 | 8.00  | 1.00 |  |  |  | 1.65  | 2.00  | 17.18 |
| 4097 Primo H. G. Nitrate of Soda                             | Guarantee | .54   |       |      |       |      |  |  |  | 15.05 |       | 52.68 |
|                                                              | Guarantee |       |       |      |       |      |  |  |  | 16.50 |       | 57.75 |
| 4098 Primo Raw Ground Bone                                   | Guarantee | 3.58  |       |      |       |      |  |  |  | 24.74 | 3.09  | 23.19 |
|                                                              | Guarantee |       |       |      |       |      |  |  |  | 18.50 | 2.50  | 18.00 |
| 4099 Primo H. G. Vegetable Grower                            | Guarantee | 4.85  | 5.00  | 1.58 | 6.58  | .32  |  |  |  | 2.98  | 4.98  | 23.15 |
|                                                              | Guarantee |       | 5.00  | 1.00 | 6.00  | 1.00 |  |  |  | 3.00  | 5.00  | 22.60 |
| 4100 Primo S. G. German Kainit                               | Guarantee | .51   |       |      |       |      |  |  |  |       |       | 12.22 |
|                                                              | Guarantee |       |       |      |       |      |  |  |  |       |       | 12.00 |
| (HAZLEHURST OIL MILL & FERTILIZER CO., Hazlehurst, Miss.     |           |       |       |      |       |      |  |  |  |       |       |       |
| 3965 H. G. Acid Phosphate                                    | Guarantee | 11.40 | 12.11 | 4.83 | 16.94 | 1.07 |  |  |  |       |       | 18.15 |
|                                                              | Guarantee |       | 12.00 | 2.00 | 14.00 | 2.00 |  |  |  |       |       | 15.20 |
| 3966 S. G. Imperial Fertilizer                               | Guarantee | 11.90 | 7.21  | 2.64 | 9.85  | 1.20 |  |  |  | 1.92  | 2.44  | 20.62 |
|                                                              | Guarantee |       | 7.00  | 2.00 | 9.00  | 1.00 |  |  |  | 1.65  | 2.00  | 18.38 |
| 3967 H. G. Imperial Vegetable Grower                         | Guarantee | 8.97  | 3.55  | 2.54 | 6.09  | .66  |  |  |  | 3.04  | 4.13  | 21.82 |
|                                                              | Guarantee |       | 5.00  | 2.00 | 7.00  | 1.00 |  |  |  | 2.50  | 3.00  | 19.95 |
| 3968 S. G. Superior Fertilizer                               | Guarantee | 11.85 | 7.17  | 3.03 | 10.20 | .89  |  |  |  | 1.77  | 2.46  | 20.59 |
|                                                              | Guarantee |       | 7.00  | 2.00 | 9.00  | 1.00 |  |  |  | 1.65  | 2.00  | 18.38 |
| 3969 S. G. German Kainit                                     | Guarantee | 2.91  |       |      |       |      |  |  |  |       |       | 13.89 |
|                                                              | Guarantee |       |       |      |       |      |  |  |  |       |       | 12.00 |
| (JACKSON FERTILIZER COMPANY, Jackson, Miss.                  |           |       |       |      |       |      |  |  |  |       |       |       |
| 4196 H. G. Acid Phosphate                                    | Guarantee | 11.02 | 13.73 | 2.84 | 16.57 | 1.25 |  |  |  |       |       | 17.94 |
|                                                              | Guarantee |       | 12.00 | 2.00 | 14.00 | 1.00 |  |  |  |       |       | 15.20 |
| 4197 S. G. Black Hawk Acid Phosphate                         | Guarantee | 9.83  | 9.44  | 4.44 | 13.88 | 1.58 |  |  |  |       |       | 14.82 |
|                                                              | Guarantee |       | 10.00 | 2.00 | 12.00 | 1.00 |  |  |  |       |       | 13.00 |

TABLE III.—Analyses of Brands of Fertilizers Registered for Sale in the State, with Guarantees for Season 1904-05.

| Laboratory Number. | Name of Brand and Address<br>of Manufacturer.                                    | Laboratory Number. | Moisture—Per Cent. | Phosphoric Acid.           |                              |                        |                        |      | Nitrogen—Per Cent. | Potash—Per Cent. | Relative Value<br>Per Ton. |
|--------------------|----------------------------------------------------------------------------------|--------------------|--------------------|----------------------------|------------------------------|------------------------|------------------------|------|--------------------|------------------|----------------------------|
|                    |                                                                                  |                    |                    | Water Soluble<br>Per Cent. | Citrate Soluble<br>Per Cent. | Available<br>Per Cent. | Insoluble<br>Per Cent. |      |                    |                  |                            |
| 4198               | S. G. Chicago R. B. Superphosphate<br>Guarantee                                  | 4198               | 8.01               | 7.09                       | 4.06                         | 11.15                  | 3.02                   | 1.74 | 1.82               | 21.08            |                            |
| 4420               | H. G. Fruit and Vegetable Fertilizer<br>Guarantee                                | 4420               | 12.08              | 5.34                       | 2.27                         | 7.61                   | .68                    | 2.88 | 6.96               | 18.48            |                            |
| 4199               | S. G. Gulf States Guano.<br>Guarantee                                            | 4199               | 10.48              | 7.95                       | 3.66                         | 11.61                  | 1.05                   | 1.66 | 2.28               | 25.95            |                            |
| 4200               | S. G. Lampton's Am. R. B. Superphosphate<br>Guarantee                            | 4200               | 7.95               | 7.11                       | 4.76                         | 11.87                  | 2.61                   | 1.66 | 1.89               | 21.66            |                            |
| 4419               | H. G. Lotterhos & Huber's Special Fertilizer<br>Guarantee                        | 4419               | 12.89              | 5.89                       | 2.44                         | 8.33                   | 1.08                   | 2.26 | 3.89               | 18.78            |                            |
| 4201               | H. G. Magnolia Brand<br>Guarantee                                                | 4201               | 9.51               | 7.26                       | 3.28                         | 10.54                  | 1.15                   | 2.00 | 3.40               | 18.48            |                            |
| 4202               | S. G. Royal "C" Brand<br>Guarantee                                               | 4202               | 10.07              | 7.50                       | 2.00                         | 9.50                   | 1.00                   | 1.65 | 2.50               | 21.55            |                            |
| 4203               | S. G. German Kainit<br>Guarantee                                                 | 4203               | 1.35               | 8.44                       | 3.95                         | 12.39                  | .92                    | 1.61 | 2.26               | 21.98            |                            |
| 4441               | JEFFERSON GIN & OIL MILL., Harriston, Miss.<br>H. G. Acid Phosphate<br>Guarantee | 4441               | 10.01              | 10.79                      | 4.57                         | 15.36                  | 2.27                   |      | 13.48              | 19.48            |                            |
| 4442               | S. G. Fortuna<br>Guarantee                                                       | 4442               | 8.77               | 7.93                       | 3.77                         | 11.70                  | 1.04                   | 2.47 | 12.00              | 18.78            |                            |
| 4443               | Jefferson Standard Grade<br>Guarantee                                            | 4443               | 9.91               | 8.00                       | 2.00                         | 10.00                  | 1.19                   | 1.59 | 2.03               | 20.88            |                            |
| 4444               | S. G. Royal German Kainit<br>Guarantee                                           | 4444               | 2.96               | 6.75                       | 2.25                         | 9.00                   | .55                    | 1.65 | 1.75               | 18.10            |                            |
|                    |                                                                                  |                    |                    |                            |                              |                        |                        |      | 12.35              | 12.00            |                            |



|      |                                                           |      |       |       |      |       |       |       |       |
|------|-----------------------------------------------------------|------|-------|-------|------|-------|-------|-------|-------|
| 4104 | KOSCIUSKO OIL MILL & FERTILIZER COMPANY, Kosciusko, Miss. | 4104 | 11.97 | 13.12 | 3.62 | 16.74 | 1.92  |       | 18.05 |
|      | H. G. Acid Phosphate                                      |      |       | 11.00 | 3.00 | 14.00 | 1.00  |       | 15.10 |
| 4105 | S. G. Peerless Guano                                      | 4105 | 9.96  | 7.62  | 3.12 | 10.74 | 1.32  | 2.30  | 21.21 |
|      | Guarantee                                                 |      |       | 8.00  | 1.50 | 9.50  | 1.00  | 1.81  | 18.85 |
| 4532 | S. G. German Kainit                                       | 4532 | 3.87  |       |      |       |       | 12.92 | 12.92 |
|      | Guarantee                                                 |      |       |       |      |       |       | 12.00 | 12.00 |
| 4027 | LAUREL OIL & FERTILIZER Co., Laurel, Miss.                | 4027 | 11.83 | 10.85 | 2.75 | 13.60 | 3.46  |       | 14.69 |
|      | Guarantee                                                 |      |       | 10.00 | 2.00 | 12.00 | 3.00  |       | 13.00 |
| 4028 | Laurel Special H. G. Fertilizer                           | 4028 | 7.84  | 5.39  | 2.75 | 8.14  | 2.36  | 3.91  | 23.06 |
|      | Guarantee                                                 |      |       | 4.00  | 2.00 | 6.00  | 2.00  | 2.76  | 21.50 |
| 4029 | S. G. Plow Brand                                          | 4029 | 9.50  | 7.81  | 2.98 | 10.79 | 3.15  | 1.81  | 19.67 |
|      | Guarantee                                                 |      |       | 7.00  | 2.00 | 9.00  | 2.00  | 1.80  | 18.40 |
| 4362 | S. G. K. C. Ammoniated Bone                               | 4362 | 9.48  | 7.90  | 3.26 | 11.16 | 2.95  | 1.66  | 20.85 |
|      | Guarantee                                                 |      |       | 7.00  | 2.00 | 9.00  | 1.00  | 1.65  | 17.88 |
| 4090 | MARBACH & EAGAN, Crystal Springs, Miss.                   | 4090 | 9.67  |       |      |       | 12.37 | 4.26  | 22.16 |
|      | Guarantee                                                 |      |       |       |      |       | 5.00  | 4.25  | 18.03 |
| 4209 | P. B. MATHIASON M'F'G. Co. St. Louis, Mo.                 | 4209 | 5.00  | 3.49  | 3.75 | 7.24  | 3.67  | 1.67  | 17.83 |
|      | Incescent Brand Arkansas Cotton & Corn Grower             |      |       | 5.00  | 3.00 | 8.00  | 2.00  | 1.66  | 17.11 |
| 4210 | Incescent Brand Dissolved Bone                            | 4210 | 7.23  | 5.26  | 4.84 | 10.10 | 3.36  | 3.00  | 25.40 |
|      | Guarantee                                                 |      |       | 6.00  | 3.00 | 9.00  | 2.00  | 3.00  | 25.00 |
| 4552 | Incescent Brand Potato and Tobacco Grower                 | 4552 | 3.28  | 2.12  | 4.38 | 6.50  | 2.89  | 2.23  | 22.68 |
|      | Guarantee                                                 |      |       | 3.00  | 4.00 | 7.00  | 3.00  | 1.66  | 18.31 |
| 4553 | Incescent Brand Southern Special                          | 4553 | 8.34  | 4.98  | 5.28 | 10.26 | 2.27  | 2.22  | 21.65 |
|      | Guarantee                                                 |      |       | 4.00  | 5.00 | 9.00  | 3.00  | 2.47  | 20.95 |
| 3959 | MERIDIAN FERTILIZER FACTORY, Meridian, Miss.              | 3959 | 13.14 | 9.70  | 4.10 | 13.80 | .71   |       | 14.77 |
|      | S. G. Meridian English Acid Phosphate                     |      |       | 10.00 | 2.00 | 12.00 | 1.00  |       | 13.00 |
| 3958 | H. G. Meridian Southern Acid Phosphate                    | 3958 | 12.81 | 10.23 | 3.86 | 14.09 | .85   |       | 15.11 |
|      | Guarantee                                                 |      |       | 12.00 | 2.00 | 14.00 | 1.00  |       | 15.20 |
| 3960 | S. G. Meridian Blood and Bone                             | 3960 | 12.51 | 6.69  | 3.09 | 9.78  | 4.12  | 1.53  | 18.52 |
|      | Guarantee                                                 |      |       | 8.00  | 1.50 | 9.50  | 1.00  | 1.65  | 18.53 |
| 4205 | S. G. Meridian Farmer's Friend                            | 4205 | 11.94 | 6.86  | 2.53 | 9.39  | .99   | 1.84  | 19.66 |
|      | Guarantee                                                 |      |       | 8.00  | 1.50 | 9.50  | 1.00  | 1.64  | 18.49 |
| 3961 | S. G. Meridian Home Mixture                               | 3961 | 13.13 | 5.93  | 3.94 | 9.87  | 1.40  | 1.77  | 19.77 |
|      | Guarantee                                                 |      |       | 8.00  | 1.50 | 9.50  | 1.00  | 1.65  | 18.53 |

TABLE III.—Analyses of Brands of Fertilizers Registered for Sale in the State, with Guarantees for Season 1904-05.

| Laboratory Number. | Name of Brand and Address of Manufacturer.                                                                | Laboratory Number. | Moisture—Per Cent. | Phosphoric Acid.        |                           |                     |                     | Nitrogen—Per Cent. | Potash—Per Cent. | Relative Value Per Ton. |
|--------------------|-----------------------------------------------------------------------------------------------------------|--------------------|--------------------|-------------------------|---------------------------|---------------------|---------------------|--------------------|------------------|-------------------------|
|                    |                                                                                                           |                    |                    | Water Soluble Per Cent. | Citrate Soluble Per Cent. | Available Per Cent. | Insoluble Per Cent. |                    |                  |                         |
| 3962               | S. G. Meridian Soluble Guano Guarantee                                                                    | 3962               | 13.13              | 5.93                    | 3.94                      | 9.87                | 1.40                | 1.77               | 2.14             | 19.77                   |
| 3963               | H. G. Meridian Vegetable Grower Guarantee                                                                 | 3963               | 12.07              | 5.94                    | 1.50                      | 9.50                | 1.00                | 1.65               | 1.50             | 18.53                   |
| 4026               | S. G. Hattiesburg Ammoniated Mixture with Bone Guarantee                                                  | 4026               | 9.71               | 8.39                    | 2.00                      | 8.00                | 1.00                | 2.50               | 5.00             | 23.15                   |
| 3964               | S. G. Meridian German Kamit Guarantee                                                                     | 3964               | 5.81               | 8.00                    | 2.00                      | 10.00               | 1.00                | 1.65               | 1.00             | 21.47                   |
| 3970               | NEW ORLEANS ACID AND FERTILIZER COMPANY, New Orleans, La.<br>S. G. Black Diamond Acid Phosphate Guarantee | 3970               | 11.98              | 9.97                    | 2.51                      | 12.48               | 1.60                |                    |                  | 13.48                   |
| 3971               | S. G. Crescent City Acid Phosphate Guarantee                                                              | 3971               | 10.10              | 10.04                   | 2.20                      | 12.24               | 1.58                |                    |                  | 13.24                   |
| 3972               | S. G. Blood, Bone, and Beef Guarantee                                                                     | 3972               | 12.96              | 7.38                    | 3.42                      | 10.80               | 1.29                | 1.79               | 1.38             | 20.26                   |
| 3973               | S. G. Blood, Bone, and Potash Guarantee                                                                   | 3973               | 12.91              | 7.00                    | 2.50                      | 9.50                | 2.00                | 1.65               | 1.00             | 17.93                   |
| 3974               | S. G. Dissolved Bone and Potash Guarantee                                                                 | 3974               | 9.71               | 7.63                    | 3.10                      | 10.73               | 1.42                | 1.73               | 1.27             | 19.89                   |
| 3975               | H. G. Economizer Guarantee                                                                                | 3975               | 12.71              | 7.00                    | 2.50                      | 9.50                | 2.00                | 1.65               | 1.00             | 17.93                   |
| 3976               | S. G. Gold Dust Guarantee                                                                                 | 3976               | 13.03              | 7.74                    | 2.30                      | 10.04               | 1.55                | 2.05               | 1.71             | 20.70                   |
| 3977               | S. G. Goldsmith's Improved Mixture Guarantee                                                              | 3977               | 12.60              | 7.00                    | 2.50                      | 9.50                | 2.00                | 1.65               | 1.00             | 17.93                   |
|                    |                                                                                                           |                    |                    | 7.61                    | 2.50                      | 10.11               | 1.70                | 1.97               | 1.76             | 20.54                   |
|                    |                                                                                                           |                    |                    | 7.00                    | 2.50                      | 9.50                | 2.00                | 1.65               | 1.00             | 17.93                   |

|      |                                                                |      |       |       |      |       |      |      |       |       |
|------|----------------------------------------------------------------|------|-------|-------|------|-------|------|------|-------|-------|
| 4361 | Jaek Gaston's S. G. Cotton and Corn Fertilizer                 | 4361 | 12.21 | 7.74  | 3.12 | 10.86 | 2.62 | 1.50 | 1.36  | 19.33 |
|      | Guarantee                                                      |      |       | 7.00  | 2.50 | 9.50  | 2.00 | 1.65 | 1.00  | 17.93 |
| 3978 | H. G. Vegetable Grower                                         | 3978 | 11.14 | 5.91  | 2.13 | 8.04  | 1.02 | 2.78 | 3.94  | 23.11 |
|      | Guarantee                                                      |      |       | 6.00  | 1.25 | 7.25  | 2.00 | 2.80 | 2.60  | 20.98 |
| 3979 | S. G. German Kainit                                            | 3979 | 5.79  |       |      |       |      |      | 13.26 | 19.26 |
|      | Guarantee                                                      |      |       |       |      |       |      |      | 12.00 | 12.00 |
| 4771 | NEWTON OIL & M'F'G. Co., Newton, Miss.<br>S. G. Acid Phosphate | 4771 | 9.57  | 8.99  | 5.51 | 14.50 | 1.47 |      |       | 15.40 |
|      | Guarantee                                                      |      |       | 10.00 | 2.00 | 12.00 | 1.00 |      |       | 18.00 |
| 4770 | Newton's H. G. Acid Phosphate 14 %                             | 4770 | 7.58  | 10.07 | 4.88 | 14.95 | 2.10 |      |       | 15.96 |
|      | Guarantee                                                      |      |       | 12.00 | 2.00 | 14.00 | 1.00 |      |       | 15.20 |
| 4769 | Newton's H. G. Acid Phosphate 16 %                             | 4769 | 7.30  | 12.35 | 5.30 | 17.65 | 1.00 |      |       | 18.89 |
|      | Guarantee                                                      |      |       | 14.00 | 2.00 | 16.00 | 1.00 |      |       | 17.40 |
| 4772 | S. G. Banner C. and C. Brand                                   | 4772 | 13.40 | 4.52  | 2.51 | 7.03  | .55  | 2.56 | 3.35  | 20.50 |
|      | Guarantee                                                      |      |       | 7.00  | 1.50 | 8.50  | 1.00 | 1.65 | 2.25  | 18.08 |
| 4773 | S. G. Pine Land Guano                                          | 4773 | 13.63 | 6.76  | 2.90 | 9.66  | .84  | 2.35 | 1.49  | 21.02 |
|      | Guarantee                                                      |      |       | 7.00  | 1.50 | 8.50  | 1.00 | 1.65 | 2.25  | 18.08 |
| 4774 | S. G. German Kainit                                            | 4774 | 2.08  |       |      |       |      |      | 12.91 | 12.91 |
|      | Guarantee                                                      |      |       |       |      |       |      |      | 12.00 | 12.00 |
|      | PLANTERS FERTILIZER & CHEMICAL Co., New Orleans, La.           |      |       |       |      |       |      |      |       |       |
| 4324 | Planter's S. G. Acid Phosphate                                 | 4324 | 8.18  | 9.99  | 2.33 | 12.32 | 2.66 |      |       | 13.32 |
|      | Guarantee                                                      |      |       | 10.00 | 2.00 | 12.00 | 2.00 |      |       | 13.00 |
| 4495 | S. G. Planter's Cotton and Corn No. 1                          | 4495 | 9.43  | 8.28  | 2.76 | 11.04 | 1.79 | 1.78 | 1.93  | 21.13 |
|      | Guarantee                                                      |      |       | 6.50  | 2.50 | 9.00  | 2.00 | 1.65 | 1.00  | 17.33 |
| 4321 | S. G. Planter's Golden Home Mixture                            | 4321 | 10.58 | 7.52  | 3.41 | 10.93 | 1.62 | 1.81 | 1.18  | 20.29 |
|      | Guarantee                                                      |      |       | 7.00  | 2.00 | 9.00  | 2.00 | 1.65 | 1.00  | 17.38 |
| 4322 | S. G. Planter's Raw Bone Superphosphate                        | 4322 | 13.66 | 8.27  | 2.05 | 10.32 | 1.68 | 1.47 | 1.30  | 18.62 |
|      | Guarantee                                                      |      |       | 7.00  | 2.00 | 9.00  | 2.00 | 1.65 | 1.00  | 17.38 |
| 4323 | H. G. Planter's Vegetable Fertilizer                           | 4323 | 11.98 | 7.20  | 1.77 | 8.97  | 1.52 | 2.80 | 3.15  | 23.54 |
|      | Guarantee                                                      |      |       | 5.00  | 2.00 | 7.00  | 2.00 | 2.60 | 3.00  | 20.30 |
|      | REFUGE CORTON OIL Co., Columbus, Miss.                         |      |       |       |      |       |      |      |       |       |
| 4232 | H. G. Refuge Acid Phosphate                                    | 4232 | 8.59  | 11.05 | 4.21 | 15.26 | 1.16 |      |       | 16.37 |
|      | Guarantee                                                      |      |       | 12.00 | 2.00 | 14.00 | 2.00 |      |       | 16.20 |
| 4233 | H. G. Columbus Home Made                                       | 4233 | 9.29  | 7.55  | 3.55 | 11.10 | .48  | 1.99 | 2.01  | 21.94 |
|      | Guarantee                                                      |      |       | 8.00  | 2.00 | 10.00 | 2.00 | 1.65 | 2.00  | 19.58 |
| 4234 | S. G. Refuge Standard Guano                                    | 4234 | 9.73  | 7.03  | 3.31 | 10.34 | .65  | 1.63 | 2.42  | 20.20 |
|      | Guarantee                                                      |      |       | 6.00  | 2.50 | 8.50  | 2.00 | 1.65 | 2.00  | 17.73 |



|                                                                                         |            |       |      |       |       |      |       |       |
|-----------------------------------------------------------------------------------------|------------|-------|------|-------|-------|------|-------|-------|
| 4003 S. G. Champion Farmer's Choice                                                     | 4003 11.72 | 7.73  | 3.17 | 10.90 | 1.43  | 1.95 | 1.97  | 21.56 |
| Guarantee                                                                               |            | 7.00  | 2.50 | 9.50  | 1.00  | 1.65 | 1.00  | 17.93 |
| 4004 Ground Bone                                                                        | 4004 5.73  |       |      |       | 20.25 | 3.59 |       | 22.69 |
| Guarantee                                                                               |            |       |      |       | 18.50 | 2.50 |       | 18.00 |
| 4005 S. G. Miss. Home Guano                                                             | 4005 11.27 | 7.82  | 3.08 | 10.90 | 1.52  | 1.95 | 1.89  | 21.49 |
| Guarantee                                                                               |            | 7.00  | 2.50 | 9.50  | 1.00  | 1.65 | 1.50  | 18.43 |
| 4006 S. G. Pelican Raw Bone Guano                                                       | 4006 10.19 | 5.86  | 5.31 | 11.17 | 1.31  | 1.93 | 2.27  | 21.90 |
| Guarantee                                                                               |            | 7.00  | 2.50 | 9.50  | 1.00  | 1.65 | 1.50  | 18.43 |
| 4007 Stern's S. G. Ammoniated R. B. Superphosphate                                      | 4007 10.29 | 5.82  | 5.23 | 11.05 | 1.36  | 1.94 | 2.35  | 21.88 |
| Guarantee                                                                               |            | 7.00  | 2.50 | 9.50  | 1.00  | 1.65 | 1.50  | 18.43 |
| 4008 S. G. Standard Ammoniated Soluble Guano                                            | 4008 10.00 | 5.90  | 5.18 | 11.08 | 1.30  | 1.87 | 2.21  | 21.53 |
| Guarantee                                                                               |            | 7.00  | 2.50 | 9.50  | 1.00  | 1.65 | 1.50  | 18.43 |
| 4009 S. G. Standard Blood, Bone, and Meat                                               | 4009 10.47 | 5.72  | 4.93 | 10.65 | 1.17  | 1.98 | 2.00  | 21.22 |
| Guarantee                                                                               |            | 7.00  | 2.50 | 9.50  | 1.00  | 1.65 | 1.50  | 18.43 |
| 4010 H. G. Standard Sugar Fertilizer                                                    | 4010 11.17 | 7.75  | 4.28 | 12.03 | .96   | 2.38 | 2.73  | 25.07 |
| Guarantee                                                                               |            | 8.50  | 1.50 | 10.00 | 1.00  | 2.50 | 2.00  | 22.60 |
| 4011 H. G. Vegetable Fertilizer                                                         | 4011 7.78  | 4.60  | 3.12 | 7.72  | 1.03  | 3.07 | 5.28  | 24.98 |
| Guarantee                                                                               |            | 5.00  | 1.00 | 6.00  | 1.00  | 3.00 | 5.00  | 22.60 |
| 4012 S. G. German Kainit                                                                | 4012 1.90  |       |      |       |       |      | 14.19 | 14.19 |
| Guarantee                                                                               |            |       |      |       |       |      | 12.00 | 12.00 |
| 4115 Swift's Fertilizer Works, Atlanta, Ga.<br>Swift's Chattanooga S. G. Acid Phosphate | 4115 11.03 | 7.79  | 5.56 | 13.35 | 3.27  |      |       | 14.13 |
| Guarantee                                                                               |            | 7.00  | 5.00 | 12.00 | 1.50  |      |       | 12.70 |
| 4116 Swift's Cultivator H. G. Acid Phosphate                                            | 4116 13.64 | 11.18 | 3.47 | 14.65 | 2.30  |      |       | 15.77 |
| Guarantee                                                                               |            | 9.00  | 5.00 | 14.00 | 1.50  |      |       | 14.90 |
| 4117 Swift's Cotton King H. G. Guano                                                    | 4117 7.09  | 6.34  | 4.36 | 10.70 | 2.97  | 2.44 | 2.85  | 23.79 |
| Guarantee                                                                               |            | 6.00  | 3.00 | 9.00  | 1.50  | 2.47 | 2.00  | 21.15 |
| 4118 Swift's Cotton Plant S. G. Guano                                                   | 4118 8.37  | 6.17  | 3.90 | 10.07 | 2.31  | 2.18 | 1.42  | 20.74 |
| Guarantee                                                                               |            | 6.00  | 3.00 | 9.00  | 1.50  | 1.65 | 1.00  | 17.28 |
| 4119 Swift's Eagle H. G. Guano                                                          | 4119 6.89  | 5.98  | 4.76 | 10.74 | 3.49  | 2.05 | 2.49  | 22.08 |
| Guarantee                                                                               |            | 6.50  | 3.50 | 10.00 | 1.50  | 1.65 | 2.00  | 19.43 |
| 4120 Swift's Farmers Home H. G. Guano                                                   | 4120 5.90  | 3.79  | 6.65 | 10.44 | 2.71  |      | 5.27  | 17.13 |
| Guarantee                                                                               |            | 6.00  | 4.00 | 10.00 | 1.50  |      | 4.00  | 15.60 |
| 4121 Swift's Field and Farm S. G. Guano                                                 | 4121 8.37  | 5.03  | 5.50 | 10.53 | 1.64  |      | 2.92  | 15.01 |
| Guarantee                                                                               |            | 6.00  | 4.00 | 10.00 | 1.50  |      | 2.00  | 18.60 |
| 4122 Swift's Golden Harvest S. G. Guano                                                 | 4122 6.07  | 5.46  | 4.55 | 10.01 | 2.40  | 1.91 | 2.79  | 21.03 |
| Guarantee                                                                               |            | 5.50  | 2.50 | 8.00  | 1.50  | 1.65 | 2.00  | 17.13 |
| 4123 Swift's Monarch H. G. Guano                                                        | 4123 6.87  | 5.43  | 3.84 | 9.27  | 2.79  | 3.27 | 4.53  | 26.72 |
| Guarantee                                                                               |            | 5.50  | 2.50 | 8.00  | 1.50  | 3.29 | 4.00  | 24.87 |

TABLE III—Analyses of Brands of Fertilizers Registered for Sale in the State, with Guarantees for Season 1904-05.

| Laboratory Number. | Name of Brand and Address<br>of Manufacturer.                                        | Laboratory Number | Moisture—Per Cent. | Phosphoric Acid.           |                              |                        |                        | Nitrogen—Per Cent. | Potash—Per Cent. | Relative Value<br>Per Ton. |
|--------------------|--------------------------------------------------------------------------------------|-------------------|--------------------|----------------------------|------------------------------|------------------------|------------------------|--------------------|------------------|----------------------------|
|                    |                                                                                      |                   |                    | Water Soluble<br>Per Cent. | Citrate Soluble<br>Per Cent. | Available<br>Per Cent. | Insoluble<br>Per Cent. |                    |                  |                            |
| 4124               | Swift's Red Steer S. G. Guano<br>Guarantee                                           | 4124              | 5.86               | 5.80                       | 4.20                         | 10.00                  | 2.30                   | 1.89               | 2.91             | 21.11                      |
| 4487               | Swift's S. G. German Kainit<br>Guarantee                                             | 4487              | .89                | 5.50                       | 2.50                         | 8.00                   | 1.50                   | 1.65               | 2.00             | 17.13                      |
| 4128               | Swift's H. G. Tankage<br>SWIFT & COMPANY, Chicago, Ill.<br>Guarantee                 | 4128              | 7.01               |                            |                              |                        | 6.17                   | 6.97               |                  | 27.48                      |
|                    |                                                                                      |                   |                    | 4.58                       |                              |                        | 4.58                   | 6.58               |                  | 25.32                      |
| 4312               | H. G. Dissolved Bone<br>TENNESSEE CHEMICAL COMPANY, Nashville, Tenn.<br>Guarantee    | 4312              | 10.93              | 9.45                       | 3.91                         | 13.36                  | 1.21                   |                    |                  | 14.31                      |
| 4313               | Ox H. G. Ammoniated Bone<br>Guarantee                                                | 4313              | 11.95              | 7.94                       | 4.58                         | 12.52                  | .77                    | 1.63               | 2.43             | 14.80                      |
| 4314               | S. G. Cotton Guano<br>Guarantee                                                      | 4314              | 8.79               | 6.00                       | 4.00                         | 10.00                  | 1.00                   | 1.65               | 2.00             | 22.70                      |
| 4315               | S. G. Potash Mixture<br>Guarantee                                                    | 4315              | 8.79               | 7.20                       | 4.74                         | 11.94                  | 1.37                   | 1.48               | 1.47             | 19.38                      |
| 4316               | S. G. Slaughter House Bone<br>Guarantee                                              | 4316              | 9.19               | 6.00                       | 4.00                         | 10.00                  | 1.00                   | 1.65               | 1.00             | 20.50                      |
| 4437               | S. G. Dissolved Bone<br>TENNESSEE VALLEY FERTILIZER Co., Florence, Ala.<br>Guarantee | 4437              | 7.20               | 3.14                       | 7.15                         | 10.29                  | .68                    |                    | 2.21             | 18.38                      |
|                    |                                                                                      |                   |                    | 5.36                       | 4.15                         | 9.51                   | 1.66                   | 1.80               | 2.81             | 13.84                      |
| 4817               | S. G. Ashcroft's Formula<br>Guarantee                                                | 4817              | 10.09              | 5.00                       | 3.00                         | 8.00                   | 1.00                   | 1.65               | 2.00             | 19.41                      |
| 4819               | S. G. King Cotton Grower<br>Guarantee                                                | 4819              | 10.15              | 7.00                       | 2.00                         | 9.00                   | 2.00                   | 1.80               | 2.00             | 17.08                      |
|                    |                                                                                      |                   |                    | 9.31                       | 3.93                         | 13.24                  | 4.98                   |                    |                  | 14.17                      |
|                    |                                                                                      |                   |                    | 1.00                       | 2.00                         | 12.00                  | 2.00                   |                    |                  | 13.00                      |
|                    |                                                                                      |                   |                    | 6.72                       | 4.08                         | 10.80                  | 3.06                   |                    | 3.00             | 15.55                      |
|                    |                                                                                      |                   |                    | 8.00                       | 2.47                         | 10.47                  | 2.00                   |                    | 2.19             | 14.51                      |
|                    |                                                                                      |                   |                    | 6.42                       | 3.58                         | 10.00                  | 2.50                   | 1.98               | 2.87             | 21.44                      |
|                    |                                                                                      |                   |                    | 7.00                       | 2.00                         | 9.00                   | 2.00                   | 1.65               | 1.00             | 17.38                      |

|      |                                                    |      |       |       |      |       |      |      |      |       |
|------|----------------------------------------------------|------|-------|-------|------|-------|------|------|------|-------|
| 4818 | H. G. Florence Fertilizer                          | 4818 | 17.15 | 6.43  | 3.65 | 10.08 | 2.68 | 1.82 | 2.84 | 20.94 |
|      | Guarantee                                          |      |       | 8.00  | 2.00 | 10.00 | 2.00 | 1.65 | 2.00 | 19.58 |
| 4046 | S. G. Prolific Acid Phosphate                      | 4046 | 16.19 | 10.45 | 3.27 | 13.72 | 1.52 |      |      | 14.77 |
|      | Sold by THREEFOOT BROS. & Co., Meridian, Miss.     |      |       | 11.00 | 2.00 | 13.00 | 1.00 |      |      | 14.10 |
|      | Guarantee                                          |      |       | 12.22 | 3.90 | 16.12 | 1.38 |      |      | 17.34 |
| 4204 | Threefoot's H. G. English Acid Phosphate           | 4204 | 6.92  | 13.00 | 2.00 | 15.00 | 1.00 |      |      | 16.80 |
|      | Guarantee                                          |      |       | 13.00 | 2.00 | 15.00 | 1.00 |      |      | 16.80 |
| 4047 | Threefoot's Improved Mixture                       | 4047 | 11.93 | 7.23  | 2.74 | 9.97  | 1.39 | 1.84 | 2.90 | 21.13 |
|      | Guarantee                                          |      |       | 7.50  | 2.00 | 9.50  | 2.00 | 1.67 | 1.50 | 18.55 |
|      | VIRGINIA-CAROLINA CHEMICAL COMPANY, Memphis, Tenn. |      |       |       |      |       |      |      |      |       |
| 4049 | S. G. I. X. L. Acid Phosphate                      | 4049 | 2.67  | 2.34  | 8.00 | 10.34 | 2.88 |      |      | 10.57 |
|      | Guarantee                                          |      |       | 9.00  | 3.00 | 12.00 | 2.00 |      |      | 12.90 |
| 4050 | S. G. Royal Acid Phosphate                         | 4050 | 2.83  | 2.30  | 8.08 | 10.38 | 2.98 |      |      | 10.61 |
|      | Guarantee                                          |      |       | 10.00 | 2.00 | 12.00 | 2.00 |      |      | 13.00 |
| 4051 | Scott's H. G. Acid Phosphate                       | 4051 | 4.36  | 8.12  | 4.42 | 12.54 | 3.40 |      |      | 13.35 |
|      | Guarantee                                          |      |       | 12.00 | 2.00 | 14.00 | 2.00 |      |      | 15.20 |
| 4052 | S. G. Eclipse Soluble Guano                        | 4052 | 9.22  | 6.82  | 3.23 | 10.05 | 2.61 | 1.72 | 1.95 | 19.71 |
|      | Guarantee                                          |      |       | 7.00  | 2.50 | 9.50  | 2.00 | 1.65 | 1.00 | 17.93 |
| 4053 | S. G. Mobile Double Eagle Guano                    | 4053 | 6.54  | 6.61  | 2.84 | 9.45  | 1.65 | 1.82 | 2.39 | 19.82 |
|      | Guarantee                                          |      |       | 8.00  | 2.00 | 10.00 | 2.00 | 1.65 | 1.50 | 19.08 |
| 4054 | S. G. Mobile R. B. Ammoniated Superphosphate       | 4054 | 9.27  | 7.97  | 3.20 | 11.17 | 2.01 | 1.68 | 2.42 | 21.38 |
|      | Guarantee                                          |      |       | 8.00  | 2.00 | 10.00 | 2.00 | 1.65 | 1.50 | 19.08 |
| 4055 | S. G. Mobile Standard Guano                        | 4055 | 9.19  | 6.53  | 2.79 | 9.32  | 2.32 | 1.71 | 2.21 | 19.10 |
|      | Guarantee                                          |      |       | 6.00  | 2.50 | 8.50  | 2.00 | 1.65 | 2.00 | 17.73 |
| 4056 | S. G. Royal Animal Bone Guano                      | 4056 | 9.31  | 7.00  | 3.18 | 10.18 | 2.62 | 1.79 | 1.36 | 19.52 |
|      | Guarantee                                          |      |       | 7.00  | 2.50 | 9.50  | 2.00 | 1.65 | 1.00 | 17.93 |
| 4057 | S. G. Royal Blood, Bone and Potash                 | 4057 | 9.57  | 7.91  | 3.25 | 11.16 | 1.92 | 1.73 | 1.84 | 20.96 |
|      | Guarantee                                          |      |       | 8.00  | 2.00 | 10.00 | 2.00 | 1.65 | 1.50 | 19.08 |
| 4058 | S. G. Royal Cotton Boll Guano                      | 4058 | 9.44  | 6.21  | 3.15 | 9.36  | 2.07 | 1.74 | 2.22 | 19.23 |
|      | Guarantee                                          |      |       | 6.00  | 2.50 | 8.50  | 2.00 | 1.65 | 2.00 | 17.73 |
| 4059 | S. G. Royal Compound                               | 4059 | 5.22  | 1.76  | 7.62 | 9.38  | 2.14 |      |      | 12.70 |
|      | Guarantee                                          |      |       | 8.00  | 2.00 | 10.00 | 2.00 |      |      | 13.80 |
| 4060 | Royal H. G. Guano                                  | 4060 | 9.84  | 7.75  | 3.07 | 10.82 | 2.09 | 1.76 | 2.56 | 21.40 |
|      | Guarantee                                          |      |       | 8.00  | 2.00 | 10.00 | 2.00 | 1.65 | 2.00 | 19.58 |
| 4061 | H. G. Royal Potash Compound                        | 4061 | 4.91  | 1.66  | 6.89 | 8.55  | 2.09 |      |      | 14.15 |
|      | Guarantee                                          |      |       | 8.00  | 2.00 | 10.00 | 2.00 |      |      | 15.80 |
| 4062 | H. G. Royal Vegetable Fertilizer                   | 4062 | 8.82  | 6.48  | 3.02 | 9.50  | 1.51 | 2.30 | 4.52 | 23.67 |
|      | Guarantee                                          |      |       | 6.00  | 2.00 | 8.00  | 2.00 | 2.47 | 4.00 | 22.05 |

TABLE III.—Analyses of Brands of Fertilizers Registered for Sale in the State, with Guarantees for Season 1904-05

| Laboratory Number. | Name of Brand and Address of Manufacturer.                                          | Laboratory Number. | Moisture—Per Cent. | Phosphoric Acid.        |                           |                     |                     |              | Nitrogen—Per Cent. | Potash—Per Cent. | Relative Value Per Ton. |
|--------------------|-------------------------------------------------------------------------------------|--------------------|--------------------|-------------------------|---------------------------|---------------------|---------------------|--------------|--------------------|------------------|-------------------------|
|                    |                                                                                     |                    |                    | Water Soluble Per Cent. | Citrate Soluble Per Cent. | Available Per Cent. | Insoluble Per Cent. |              |                    |                  |                         |
| 4063               | S. G. Scott's Ammoniated Bone Guarantee                                             | 4063               | 7.57               | 9.39<br>7.00            | .93<br>2.50               | 10.32<br>9.50       | 1.04<br>2.00        | 1.93<br>1.65 | 1.56<br>1.00       | 20.61<br>17.93   |                         |
| 4064               | S. G. Scott's Gossypium Phospho Guarantee                                           | 4064               | 7.16               | 6.68<br>8.00            | 2.31<br>2.00              | 8.99<br>10.00       | 1.36<br>2.00        | 1.84<br>1.65 | 2.01<br>1.50       | 19.01<br>19.08   |                         |
| 4065               | H. G. Scott's Potasso Phospho Guarantee                                             | 4065               | 8.75               | 4.49<br>9.00            | 7.41<br>3.00              | 11.90<br>12.00      | 1.87<br>2.00        | 2.40<br>2.00 | 2.40<br>2.00       | 15.94<br>16.10   |                         |
| 4066               | S. G. Scott's State Standard Guano Guarantee                                        | 4066               | 8.05               | 6.13<br>6.00            | 2.74<br>2.50              | 8.87<br>8.50        | .95<br>2.00         | 1.90<br>1.65 | 2.49<br>2.00       | 19.51<br>17.73   |                         |
| 4067               | H. G. V.-C. Co.'s Truck Grower Guarantee                                            | 4067               | 8.47               | 6.70<br>6.00            | 2.78<br>2.00              | 9.48<br>8.00        | 1.37<br>2.00        | 1.93<br>2.06 | 6.07<br>6.00       | 23.92<br>22.61   |                         |
| 4369               | H. G. Virginia Carolina Guano Guarantee                                             | 4369               | 11.99              | 8.43<br>8.00            | 2.51<br>2.00              | 10.94<br>10.00      | 1.92<br>2.00        | 1.98<br>1.65 | 2.23<br>2.00       | 22.04<br>19.58   |                         |
| 4068               | S. G. German Kainit Guarantee                                                       | 4068               | 1.01               |                         |                           |                     |                     |              | 12.77<br>12.00     | 12.77<br>12.00   |                         |
| 4527               | WESSON COTTON OIL & FERTILIZER Co., Wesson, Miss.<br>H. G. Acid Phosphate Guarantee | 4527               | 9.71               | 11.44<br>12.00          | 5.21<br>3.00              | 16.65<br>15.00      | 1.92<br>1.00        |              |                    | 17.79<br>16.20   |                         |
| 4424               | H. G. Mutual Friend Mixture Guarantee                                               | 4424               | 4.42               | 7.65<br>7.00            | 3.68<br>3.00              | 11.33<br>10.00      | 1.66<br>1.00        | 1.87<br>1.65 | 2.89<br>2.00       | 22.66<br>19.48   |                         |
| 4456               | S. G. Mutual Friend Mixture Guarantee                                               | 4456               | 11.48              | 8.71<br>7.00            | 2.36<br>2.00              | 11.07<br>9.00       | .29<br>1.00         | 1.49<br>1.65 | 3.00<br>2.00       | 21.26<br>18.88   |                         |
| 4528               | H. G. Mutual Vegetable Grower Guarantee                                             | 4528               | 9.93               | 5.95<br>5.00            | 3.60<br>2.00              | 9.55<br>7.00        | .85<br>1.00         | 2.79<br>3.00 | 5.48<br>4.00       | 26.35<br>22.70   |                         |
| 4529               | S. G. German Kainit Guarantee                                                       | 4529               | 2.58               |                         |                           |                     |                     |              | 13.56<br>12.00     | 13.56<br>12.00   |                         |