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UNIVERSITY OF MISSOURI COLLEGE OF AGRICULTURE
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**Fertilizer Inspection and
Analysis; Spring, 1951**

COLUMBIA, MISSOURI

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Fertilizer Inspection and Analysis; Spring, 1951

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The purpose of this bulletin is to report the results of work carried on by the Missouri Agricultural Experiment Station in administering the Missouri Fertilizer Law during the period January 1 to June 30, 1951.

In order to provide protection against fraud in the sale of commercial fertilizers, the Missouri Fertilizer Law establishes certain requirements which must be met by the company or individual prior to the sale of fertilizers in this state. These requirements are:

1. Annual registration with the Missouri Agricultural Experiment Station of each brand and analysis to be offered for sale.
2. Proper labeling of the containers stating the same facts set forth in the registration.
3. Affixing to containers registration tags purchased from the Experiment Station giving proof of registry in the current year.

The law further provides that the Experiment Station shall inspect the stocks of fertilizer sold throughout the state and draw samples to be analyzed at the laboratory of the Experiment Station. The detailed results of this work are set forth in the following sections.

INSPECTION

The inspection work covered by this bulletin began the latter part of February and was carried on throughout the 1951 spring fertilizer season. Inspectors traveled a total of 10,949 miles calling on 543 dealers located in 295 Missouri cities, towns, and communities. Each county in the state is represented by two or more of the 1,131 official samples collected. An effort was made to obtain samples of every brand and analysis of fertilizer offered for sale in Missouri. The number of samples collected of a particular brand

does not necessarily indicate the proportion of that fertilizer sold in the state. However, an attempt was made to secure a larger number of samples of those brands and grades which were sold more extensively. This resulted in the collection of one sample for approximately every 358 tons of commercial fertilizer sold during the spring season.

VIOLATIONS

Table 1 summarizes the violations found during the spring of 1951. The companies are listed in the approximate order of number of bags of fertilizers reported as being offered for sale in violation of the Missouri Fertilizer Law. The omission of the dealers at whose place of business these violations were found is not intended to absolve them of joint responsibility of the violation. These dealers are indicated by footnotes in Table 4.

ANALYSIS OF SAMPLES

Each official sample collected was analyzed by the Experiment Station laboratories located at the University of Missouri, Columbia. These results are set forth in this bulletin by the use of three tables. Tables 2 and 3 summarize the analyses in order that the reader may tell at a glance the relative manner in which manufacturers have met guarantees. Table 4 presents in greater detail a description of each sample.

Table 2 compares, by the use of an index number, the amount of plant food present in the sample with that of the guarantee of the manufacturer. If the found value and the guarantee are the same the number 100 is used; should the guarantee be exceeded by the found value the number used is greater than 100; and in the event the guarantee is not equalled by the found value the number used is less than 100.

Table 3 summarizes and expresses as a percentage the deficient nutrients to total analyzed. In this table each of the three primary elements is considered as a sample so that the grand total in this table is greater than the actual number of fertilizer samples collected.

Table 4 includes the brand name, place of collection, analytical results, and guarantee of each official sample. Where there are two or more like samples of any brand the average analysis is given. If the guarantee is not equalled by an element that figure is underlined and such a sample is classed as deficient.

Table 5 is a list of companies, brand names, and guaranteed analyses of those fertilizers registered for sale in Missouri for 1951 as this bulletin goes to press.

ANALYTICAL TOLERANCES

The following tolerances have been set up for reporting deficient samples; one per cent (1%) of the guaranteed percentage of total nitrogen, one and one-half per cent (1 1/2%) of the guaranteed percentage of available phosphorus pentoxide (P_2O_5), and one and one-half per cent (1 1/2%) of the guaranteed percentage of water soluble potash (K_2O).

For example, in reporting the results of a 4-12-4 grade fertilizer, we would accept 3.96-11.82-3.94 as meeting the manufacturer's guarantee and would not underline these figures as being deficient.

The tolerances given here represent only the unavoidable analytical error in determinations made by the Experiment Station laboratory.

TABLE I--VIOLATIONS REPORTED; SPRING, 1951

| Company | Registration Tags Not Attached | Fertilizer Not Registered At Time of Inspection | | Improper Labeling | |
|-------------------------------------|--------------------------------------|--|--|-------------------|--|
| | No. Bags* | No. Bags | Brand Name | No. Bags* | Type of Violation |
| Mathieson Chemical Corp. | 2051 | | | 600 | Labels missing entirely |
| Armour Fertilizer Works | 1622 | 60 300 112 160 | Big Crop 6-18-6 Red Muriate of Potash Big Crop 3-18-9 Big Crop Tobacco 5-10-10s | 6 | Chemical Composition Not Guaranteed |
| Missouri Farmers Ass'n, Inc. | 1941 | | | 192 | Bags Carried Two Grade Labels** |
| Swift and Co. | 2123 | | | | |
| Consumers Cooperative Ass'n. | 1981 | 80 | Farmers Plant Food 8-24-8 | | |
| Farm Belt Fertilizer & Chem. Co. | 1844 | | | | |
| Farm Bureau Service Co. of Missouri | 874 | 56 | Muriate of Potash | 750 | Material Mislabeled |
| Tri-State Chemical Co. | 1542 | | | 108 | Bags Carried Two Grade Labels** |
| Ark-Mo Plant Food Co. | 1151 | | | 150 | Indefinite Guarantee Nitrogen |
| Pearson-Ferguson Chemical Co. | 478 | 200 | Diamond Ammonium Sulphate | 30 | Labels Incomplete |
| Schrock Fertilizer Service | 600 | | | | |
| Virginia-Carolina Chemical Corp. | 585 | | | | |
| American Agricultural Chemical Co. | 546 | | | | |
| Interstate Fertilizer Co. | 260 | | | 260 | Indefinite Guarantee Nitrogen |
| Temple Cotton Oil Co. | 360 | | | | |
| Blytheville Fertilizer Corp. | 249 | | | 22 | Labels Incomplete |
| Darling & Co. | 231 | | | | |
| Phillips Chemical Co. | 105 | 105 | Phillips 66 Ammonium Sulphate | | |
| Davison Chemical Corp. | 110 | | | | |
| Smith-Douglass Co., Inc. | 91 | | | | |
| Thurston Chemical Co. | 81 | | | | |
| Sears Roebuck & Co. | 35 | | | | |
| Stimulant Laboratories | 30 | | | | |
| O. M. Scott & Sons Co. | 18 | | | | |
| McCormick & Co. | 15 | | | | |
| Gaylord Chemical Co. | | | | 10 | Packages Carried Two Grade Labels** |
| Goulard & Olena, Inc. | | 9 | G & O Rose Food 7-8-5 | | |

*These figures may include bulk fertilizers reported in one hundred pound lots.

**Original bag labels altered incompletely.

TABLE 2--SUMMARY OF AVERAGE VARIATIONS FROM MANUFACTURERS GUARANTEE; SPRING, 1951

| Manufacturer | Mixed Fertilizers | | | | | | Single Nutrient Materials* | | | | | | All Fertilizers | |
|-------------------------------------|-------------------|-----------|---|-----------|-------------|-----------|----------------------------|-----------|---|-----------|-------------|-----------|-----------------|-----------|
| | Nitrogen | | Available P ₂ O ₅ | | Potash | | Nitrogen | | Available P ₂ O ₅ | | Potash | | No. Samples | Index No. |
| | No. Samples | Index No. | No. Samples | Index No. | No. Samples | Index No. | No. Samples | Index No. | No. Samples | Index No. | No. Samples | Index No. | | |
| American Agricultural Chemical Co. | 37 | 99.1 | 40 | 100.4 | 40 | 103.2 | --- | --- | 8 | 107.4 | -- | ---- | 48 | 102.0 |
| Ark Mo Plant Food Co. | 23 | 99.4 | 24 | 87.0 | 24 | 104.4 | 1 | 99.0 | --- | ---- | -- | ---- | 25 | 96.6 |
| Armour Fertilizer Works | 144 | 99.4 | 155 | 101.9 | 149 | 104.5 | --- | ---- | 12 | 100.1 | 1 | 101.2 | 168 | 102.0 |
| Blytheville Fertilizer Corp. | 19 | 89.7 | 20 | 103.9 | 20 | 106.2 | --- | ---- | --- | ---- | -- | ---- | 20 | 103.4 |
| Central Farmers Fertilizer Co. | --- | ---- | --- | ---- | --- | ---- | 8 | 100.9 | 6 | 99.1 | -- | ---- | 14 | 99.9 |
| Consumers Cooperative Ass'n. | 28 | 100.9 | 30 | 95.2 | 25 | 99.0 | --- | ---- | 2 | 104.3 | 2 | 102.0 | 34 | 98.0 |
| Darling & Co. | 44 | 94.9 | 52 | 100.2 | 52 | 103.7 | --- | ---- | 15 | 102.1 | -- | ---- | 67 | 101.0 |
| Davison Chemical Corp. | 23 | 100.6 | 26 | 99.3 | 25 | 106.0 | --- | ---- | 6 | 101.9 | -- | ---- | 32 | 101.5 |
| Farm Belt Fertilizer & Chemical Co. | 48 | 103.7 | 49 | 100.6 | 46 | 106.2 | --- | ---- | 1 | 98.7 | -- | ---- | 50 | 102.4 |
| Farm Bureau Service Co. of Missouri | 16 | 102.1 | 21 | 103.5 | 21 | 107.5 | --- | ---- | --- | ---- | 6 | 100.8 | 27 | 103.6 |
| Interstate Fertilizer Co. | 10 | 96.9 | 11 | 100.8 | 11 | 104.4 | --- | ---- | --- | ---- | 1 | 103.9 | 12 | 102.1 |
| Lange Brothers, Inc. | 20 | 101.0 | 23 | 100.6 | 23 | 102.1 | 1 | 101.5 | 2 | 102.0 | 3 | 99.4 | 29 | 100.9 |
| Mathieson Chemical Corp. | 38 | 102.7 | 38 | 104.8 | 34 | 101.5 | --- | ---- | 6 | 102.0 | 1 | 99.7 | 45 | 103.2 |
| Missouri Farmers Ass'n. | 123 | 103.2 | 137 | 100.5 | 136 | 105.4 | 2 | 100.6 | 2 | 99.8 | 4 | 103.1 | 145 | 102.6 |
| Spencer Chemical Co. | --- | ---- | --- | ---- | --- | ---- | 22 | 101.4 | --- | ---- | -- | ---- | 22 | 101.4 |
| Swift & Co. | 68 | 96.1 | 70 | 101.5 | 69 | 102.5 | --- | ---- | --- | ---- | -- | ---- | 70 | 101.0 |
| Thurston Chemical Co. | 74 | 98.5 | 81 | 101.5 | 68 | 102.2 | --- | ---- | 13 | 100.8 | -- | ---- | 94 | 101.1 |
| Tri-State Chemical Co. | 17 | 97.4 | 21 | 98.7 | 20 | 105.4 | 1 | 94.0 | --- | ---- | 3 | 101.6 | 25 | 100.9 |
| Virginia-Carolina Chemical Corp. | 65 | 102.0 | 76 | 100.0 | 74 | 109.4 | --- | ---- | 9 | 99.0 | -- | ---- | 85 | 102.9 |
| TOTALS | 798 | 100.2 | 875 | 100.6 | 838 | 104.6 | 35 | 101.0 | 82 | 100.9 | 21 | 101.3 | 1013 | 101.7 |

Results were omitted from tables 2 and 3 if fewer than ten samples of field fertilizers were obtained.

*Does not include rock phosphate.

TABLE 3--SUMMARY OF TOTAL AND DEFICIENT FERTILIZER NUTRIENTS; SPRING, 1951

| Manufacturer | Nitrogen | | | Available P ₂ O ₅ | | | Potash | | | All Analyses | | |
|-------------------------------------|------------|------------|-------------|---|------------|-------------|------------|------------|-------------|--------------|------------|-------------|
| | Total | Deficient | | Total | Deficient | | Total | Deficient | | Total | Deficient | |
| | No. | No. | % | No. | No. | % | No. | No. | % | No. | No. | % |
| American Agricultural Chemical Co. | 37 | 13 | 35.1 | 48 | 11 | 22.9 | 40 | 2 | 5.0 | 125 | 26 | 20.8 |
| Ark Mo Plant Food Co., Inc. | 24 | 11 | 45.8 | 24 | 21 | 87.5 | 24 | 5 | 20.8 | 72 | 37 | 51.4 |
| Armour Fertilizer Works | 144 | 52 | 36.1 | 167 | 29 | 17.4 | 150 | 17 | 11.3 | 461 | 98 | 21.3 |
| Blytheville Fertilizer Corp. | 19 | 11 | 57.9 | 20 | 1 | 5.0 | 20 | 6 | 30.0 | 59 | 18 | 30.5 |
| Central Farmers Fertilizer Co. | 8 | 0 | 0 | 6 | 3 | 50.0 | --- | --- | --- | 14 | 3 | 21.4 |
| Consumers Cooperative Association | 28 | 9 | 32.1 | 32 | 15 | 46.9 | 27 | 8 | 29.6 | 87 | 32 | 36.8 |
| Darling & Co. | 44 | 28 | 63.6 | 67 | 16 | 23.9 | 52 | 5 | 9.6 | 163 | 49 | 30.1 |
| Davison Chemical Corp. | 23 | 4 | 17.4 | 32 | 12 | 37.5 | 25 | 2 | 8.0 | 80 | 18 | 22.5 |
| Farm Belt Fertilizer & Chemical Co. | 48 | 6 | 12.5 | 50 | 15 | 30.0 | 46 | 8 | 17.4 | 144 | 29 | 20.1 |
| Farm Bureau Service Co. of Missouri | 16 | 6 | 37.5 | 21 | 5 | 23.8 | 27 | 3 | 11.1 | 64 | 14 | 21.9 |
| Interstate Fertilizer Co. | 10 | 3 | 30.0 | 11 | 5 | 45.5 | 12 | 1 | 8.3 | 33 | 9 | 27.3 |
| Lange Brothers, Inc. | 21 | 4 | 19.0 | 25 | 5 | 20.0 | 26 | 5 | 19.2 | 72 | 14 | 19.4 |
| Mathieson Chemical Corp. | 38 | 5 | 13.2 | 44 | 2 | 4.5 | 35 | 9 | 25.7 | 117 | 16 | 13.7 |
| Missouri Farmers Association, Inc. | 125 | 20 | 16.0 | 139 | 39 | 28.1 | 140 | 10 | 7.1 | 404 | 69 | 17.1 |
| Spencer Chemical Co. | 22 | 0 | 0 | --- | --- | --- | --- | --- | --- | 22 | 0 | 0 |
| Swift & Co. | 68 | 38 | 55.9 | 70 | 10 | 14.3 | 69 | 11 | 15.9 | 207 | 59 | 28.5 |
| Thurston Chemical Co. | 74 | 41 | 55.4 | 94 | 14 | 14.9 | 68 | 8 | 11.8 | 236 | 63 | 26.7 |
| Tri-State Chemical Co. | 18 | 10 | 55.6 | 21 | 11 | 52.4 | 23 | 3 | 13.0 | 62 | 24 | 38.7 |
| Virginia-Carolina Chemical Corp. | 65 | 9 | 13.8 | 85 | 19 | 22.4 | 74 | 5 | 6.8 | 224 | 33 | 14.7 |
| TOTALS | 833 | 270 | 32.4 | 957 | 233 | 24.3 | 859 | 109 | 12.7 | 2649 | 612 | 23.1 |

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|---|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| ALLIED CHEMICAL & DYE CORP., BARRETT DIVISION, NEW YORK, N. Y. | | | | | |
| <u>"Arcadian" The American Nitrate of Soda</u> | | | | | |
| A. M. Rieffer & Son, Caledonia | 16.20 | ---- | ---- | ---- | ---- |
| A. T. Earls, Bragg City | 15.83 | ---- | ---- | ---- | ---- |
| Average Analysis | 16.02 | ---- | ---- | ---- | ---- |
| Guaranteed Analysis | 16.00 | ---- | ---- | ---- | ---- |
| AMERICAN AGRICULTURAL CHEMICAL CO., NATIONAL STOCK YARDS, ILL. | | | | | |
| <u>A. A. Quality Phosphate Rock</u> | | | | | |
| Corno Feed Store, Linn | ---- | 30.66 | 2.96 | 27.70 | ---- |
| Huntsville Flour & Feed Co., Huntsville | ---- | 31.20 | 3.75 | 27.45 | ---- |
| Bryans Feed & Produce Co., Princeton | ---- | 30.90 | 3.90 | 27.00 | ---- |
| H. H. Green Mill & Elevator, Pattonsburg | ---- | 30.90 | 3.75 | 27.15 | ---- |
| Rosebud Feed Co., Rosebud | ---- | 30.75 | 3.60 | 27.15 | ---- |
| A. C. Jones, Granger | ---- | 30.50 | 4.00 | 26.50 | ---- |
| Concordia Lumber Co., Concordia | ---- | 30.65 | 3.30 | 27.35 | ---- |
| Fayette Feed Store, Fayette | ---- | 30.60 | 3.80 | 26.80 | ---- |
| Average Analysis | ---- | 30.77 | 3.63 | 27.14 | ---- |
| Guaranteed Analysis | ---- | ---- | 3.00 | 27.00 | ---- |
| <u>18% Normal Superphosphate</u> | | | | | |
| Doniphan Feed & Supply Co., Doniphan | ---- | ---- | 18.14 | .11 | ---- |
| Corno Feed Store, Linn | ---- | ---- | 18.61 | .08 | ---- |
| Silvey's Feed Store, Potosi | ---- | ---- | 20.07 | .28 | ---- |
| Bradford Feed Store, Festus | ---- | ---- | 20.61 | .37 | ---- |
| Sutton Feed Mill, Belgrade | ---- | ---- | 19.09 | .26 | ---- |
| Turner Feed Store, Knobnoster | ---- | ---- | 19.01 | .14 | ---- |
| Chesterfield Farmers Elevator, Chesterfield | ---- | ---- | 19.58 | .27 | ---- |
| Valley Park Co-op. Elevator Ass'n., Valley Park | ---- | ---- | 19.56 | .04 | ---- |
| Average Analysis | ---- | ---- | 19.33 | .19 | ---- |
| Guaranteed Analysis | ---- | ---- | 18.00 | ---- | ---- |
| <u>Agrico Phosphate & Potash 0-12-12</u> | | | | | |
| Netzer Sales Co., Billings | ---- | ---- | 12.41 | .44 | 12.23 |
| Johnson Farm Supply, Taylor | ---- | ---- | 12.67 | .51 | 12.38 |
| Average Analysis | ---- | ---- | 12.54 | .48 | 12.31 |
| Guaranteed Analysis | ---- | ---- | 12.00 | ---- | 12.00 |
| <u>Agrico Phosphate & Potash 0-14-7</u> | | | | | |
| Luray Produce, Luray | ---- | ---- | 14.73 | .42 | 6.95 |
| Guaranteed Analysis | ---- | ---- | 14.90 | ---- | 7.00 |
| <u>A. A. Quality 2-12-6</u> | | | | | |
| Ozark Produce Co., Salem | 2.00 | ---- | 12.17 | .71 | 5.99 |
| Perry County Milling Co., Perryville | 2.03 | ---- | 12.11 | .54 | 6.00 |
| Sutton Feed Mill, Belgrade | 1.91 | ---- | 11.95 | .60 | 6.35 |
| Hahn Feed Co., Union | 2.06 | ---- | 12.39 | .51 | 6.39 |
| Brockman Brothers, Iona | 2.13 | ---- | 12.15 | 1.35 | 6.14 |
| Average Analysis | 2.03 | ---- | 12.15 | .74 | 6.17 |
| Guaranteed Analysis | 2.00 | ---- | 12.00 | ---- | 6.00 |
| <u>Agrico for Grain 2-12-6</u> | | | | | |
| Doniphan Feed & Supply Co., Doniphan | 2.03 | ---- | 11.69 | .60 | 6.50 |
| Bowers Produce, Windsor | 1.95 | ---- | 12.35 | .53 | 6.05 |
| Corno Feed Store, Linn | 1.83 | ---- | 11.39 | .94 | 5.95 |
| Netzer Sales Co., Billings | 1.82 | ---- | 11.40 | .64 | 6.51 |
| Silvey's Feed Store, Potosi | 1.96 | ---- | 12.18 | .60 | 6.11 |
| Paul's Feed Store, De Soto | 2.03 | ---- | 12.41 | .49 | 6.16 |

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|--|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| <u>(Agrico for Grain 2-12-6 cont'd.)</u> | | | | | |
| Rosebud Feed Co., Rosebud | 2.05 | ---- | 12.04 | .76 | 6.02 |
| Farmers Co-op. No. 96, Wyaconda | 2.06 | ---- | 12.52 | .68 | 6.24 |
| Valley Park Co-op. Elevator Ass'n., Valley Park | 1.93 | ---- | 12.12 | 1.06 | 5.99 |
| Average Analysis | 1.96 | ---- | 12.01 | .70 | 6.17 |
| Guaranteed Analysis | 2.00 | ---- | 12.00 | ---- | 6.00 |
| <u>AA Quality 2-14-8</u> | | | | | |
| Producers Grain Co., El Dorado Springs | 2.01 | ---- | 14.03 | .65 | 8.22 |
| Hahn Feed Co., Union. | 2.05 | ---- | 14.35 | .95 | 8.06 |
| Average Analysis | 2.03 | ---- | 14.19 | .80 | 8.14 |
| Guaranteed Analysis | 2.00 | ---- | 14.00 | ---- | 8.00 |
| <u>Agrico for Corn 2-14-8</u> | | | | | |
| Silvey's Feed Store, Potosi | 2.00 | ---- | 14.40 | .45 | 8.23 |
| Paul's Feed Store, De Soto | 2.05 | ---- | 14.56 | .49 | 8.26 |
| Bradford Feed Store, Festus. | 2.04 | ---- | 14.36 | .39 | 8.40 |
| Turner Feed Store, Knobnoster | 2.06 | ---- | 13.28 | 1.27 | 8.40 |
| T. R. Legg, Monticello | 2.23 | ---- | 12.55 | 1.77 | 8.56 |
| Average Analysis | 2.08 | ---- | 13.83 | .87 | 8.37 |
| Guaranteed Analysis | 2.00 | ---- | 14.00 | ---- | 8.00 |
| <u>AA Quality 3-12-12</u> | | | | | |
| Perry County Milling Co., Perryville (D) | 3.11 | ---- | 11.98 | .80 | 11.93 |
| Guaranteed Analysis | 3.00 | ---- | 12.00 | ---- | 12.00 |
| <u>Agrico for Midwest 3-12-12</u> | | | | | |
| Netzer Sales Co., Billings | 2.98 | ---- | 11.18 | .79 | 12.42 |
| Silvey's Feed Store, Potosi | 2.86 | ---- | 11.94 | .41 | 11.86 |
| Luray Produce, Luray | 3.15 | ---- | 11.88 | 1.46 | 12.86 |
| Average Analysis | 3.00 | ---- | 11.67 | .89 | 12.38 |
| Guaranteed Analysis | 3.00 | ---- | 12.00 | ---- | 12.00 |
| <u>AA Quality 4-12-4</u> | | | | | |
| Howard Brothers, Ellington | 3.96 | ---- | 11.77 | 1.06 | 4.43 |
| Ozark Produce Co., Salem | 3.78 | ---- | 12.04 | .58 | 4.28 |
| Average Analysis | 3.87 | ---- | 11.91 | .82 | 4.36 |
| Guaranteed Analysis | 4.00 | ---- | 12.00 | ---- | 4.00 |
| <u>Agrico for Cerals 4-12-4</u> | | | | | |
| Linn-Chariton Farm Supply, Brookfield | 3.91 | ---- | 11.69 | .72 | 4.38 |
| T. R. Legg, Monticello | 3.97 | ---- | 12.96 | .47 | 4.05 |
| Parker & Gore, Laddonia | 3.80 | ---- | 12.29 | .86 | 4.45 |
| Average Analysis | 3.89 | ---- | 12.31 | .68 | 4.29 |
| Guaranteed Analysis | 4.00 | ---- | 12.00 | ---- | 4.00 |
| <u>Agrico for Truck 4-12-8</u> | | | | | |
| Doniphan Feed & Supply Co., Doniphan | 3.94 | ---- | 11.72 | .78 | 9.84 |
| Cuba Roller Mill, Cuba. | 4.10 | ---- | 11.56 | .93 | 7.67 |
| Netzer Sales Co., Billings (D) | 4.08 | ---- | 11.63 | .88 | 8.42 |
| Average Analysis | 4.04 | ---- | 11.64 | .86 | 8.64 |
| Guaranteed Analysis | 4.00 | ---- | 12.00 | ---- | 8.00 |
| <u>Agrico for Tobacco 4-12-8</u> | | | | | |
| Weston Elevator Co., Weston (D) | 4.00 | ---- | 11.84 | .89 | 8.38 |
| Guaranteed Analysis | 4.00 | ---- | 12.00 | ---- | 8.00 |
| <u>AA Quality 4-24-12</u> | | | | | |
| Netzer Sales Co., Billings | 3.97 | ---- | 23.65 | .70 | 11.98 |
| Guaranteed Analysis | 4.00 | ---- | 24.00 | ---- | 12.00 |
| <u>AA Quality 8-8-8</u> | | | | | |
| Howard Brothers, Ellington | 7.45 | ---- | 8.94 | .24 | 7.63 |
| Guaranteed Analysis | 8.00 | ---- | 8.00 | ---- | 8.00 |
| <u>Agrico for Top Dressing 8-8-8</u> | | | | | |
| Turner Feed Store, Knobnoster | 7.70 | ---- | 8.94 | .24 | 7.93 |
| Guaranteed Analysis | 8.00 | ---- | 8.00 | ---- | 8.00 |

(D) Registration tags not attached.

Deficiencies are underlined.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|--|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| AMERICAN CYANAMID CO., NEW YORK, N. Y. | | | | | |
| <u>Aero-Phos Florida Natural Phosphate</u> | | | | | |
| Farmers Exchange, St. James | ---- | 33.00 | 3.40 | 29.60 | ---- |
| Farmers Exchange, Iberia | ---- | 33.13 | 3.53 | 29.60 | ---- |
| Farmers Exchange, Ava | ---- | 33.24 | 3.24 | 30.00 | ---- |
| Co-op. Farm Supply Store, Green City | ---- | 33.70 | 4.50 | 29.20 | ---- |
| M. F. A. Central Co-op., Ste. Genevieve | ---- | 33.40 | 3.60 | 29.80 | ---- |
| M. F. A. Co-op. Ass'n. No. 204, Owensville | ---- | 34.00 | 4.55 | 29.45 | ---- |
| Producers Exchange, Truesdale | ---- | 34.10 | 4.45 | 29.65 | ---- |
| Dallas County Farmers Exchange, Buffalo | ---- | 33.45 | 3.95 | 29.50 | ---- |
| Average Analysis | ---- | 33.50 | 3.90 | 29.60 | ---- |
| Guaranteed Analysis | ---- | ---- | 3.00 | ---- | ---- |
| <u>Aero Cyanamid 20.6%</u> | | | | | |
| Dannen Elevator, Maryville | 20.35 | ---- | ---- | ---- | ---- |
| H. D. Moody Feed Store, Mound City | 20.58 | ---- | ---- | ---- | ---- |
| Average Analysis | 20.47 | ---- | ---- | ---- | ---- |
| Guaranteed Analysis | 20.60 | ---- | ---- | ---- | ---- |
| ARK MO PLANT FOOD CO., INC., WALNUT RIDGE, ARK. | | | | | |
| <u>Ark Mo 0-20-20</u> | | | | | |
| Allen & Davis Gin Co., Sikeston | ---- | ---- | 17.87 | .58 | 19.60 |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | 20.00 |
| <u>Ark Mo 3-9-18</u> | | | | | |
| Kennett Grain & Seed Co., Kennett | 3.09 | ---- | 7.33 | 1.48 | 19.40 |
| Hi-Way Gin Co., Charleston | 2.91 | ---- | <u>6.67</u> | 2.54 | 18.26 |
| Clay County Cotton Co., Charleston | <u>2.86</u> | ---- | <u>7.05</u> | 2.20 | 19.55 |
| Allen & Davis Gin Co., Sikeston (D) | <u>2.87</u> | ---- | <u>6.73</u> | 2.35 | 19.69 |
| Campbell Gin, Campbell (D) | 3.32 | ---- | <u>8.69</u> | 1.53 | 17.92 |
| Nasselrodt & Campbell Gin Co., Lilbourn (D) | 3.26 | ---- | <u>8.55</u> | 1.37 | 17.92 |
| Average Analysis | 3.05 | ---- | <u>7.50</u> | 1.91 | 18.79 |
| Guaranteed Analysis | 3.00 | ---- | 9.00 | ---- | 18.00 |
| <u>Ark Mo 3-9-27</u> | | | | | |
| Allen & Davis Gin Co., Sikeston | 2.85 | ---- | 9.28 | .60 | 26.08 |
| Guaranteed Analysis | 3.00 | ---- | 9.00 | ---- | 27.00 |
| <u>Ark Mo 3-12-12</u> | | | | | |
| Kennett Grain & Seed Co., Kennett | 3.39 | ---- | 10.55 | 2.80 | 12.77 |
| Morehouse Gin Co., Morehouse | 3.34 | ---- | <u>10.72</u> | 2.46 | 12.98 |
| Average Analysis | 3.37 | ---- | <u>10.64</u> | 2.63 | 12.88 |
| Guaranteed Analysis | 3.00 | ---- | 12.00 | ---- | 12.00 |
| <u>Ark Mo 4-12-4</u> | | | | | |
| Bertrand Cotton Co., Bertrand | 3.84 | ---- | 7.98 | 5.36 | 4.85 |
| Clay County Cotton Co., Neelyville | 4.37 | ---- | <u>9.12</u> | 3.96 | 4.29 |
| Clines Island Gin Co., Essex | 3.86 | ---- | <u>7.56</u> | 6.23 | 4.21 |
| Average Analysis | 4.02 | ---- | <u>8.22</u> | 5.18 | 4.45 |
| Guaranteed Analysis | 4.00 | ---- | 12.00 | ---- | 4.00 |
| <u>Ark Mo 6-8-12</u> | | | | | |
| Osteen & Adams Feed & Seed Co., Portageville | 5.29 | ---- | 7.45 | .44 | 13.92 |
| Bertrand Cotton Co., Bertrand | 6.36 | ---- | <u>8.36</u> | .22 | 13.11 |
| Allen-Davis Cotton Co., Matthews | 6.22 | ---- | 7.48 | .89 | 11.93 |
| Average Analysis | 5.96 | ---- | <u>7.76</u> | .52 | 12.99 |
| Guaranteed Analysis | 6.00 | ---- | 8.00 | ---- | 12.00 |
| <u>Ark Mo 8-8-8</u> | | | | | |
| Malden Grain Co., Malden | 7.96 | ---- | 7.37 | .38 | 7.54 |
| Clay County Cotton Co., Charleston | 7.98 | ---- | <u>7.71</u> | .42 | 7.30 |
| Allen & Davis Gin Co., Sikeston | 8.28 | ---- | <u>7.23</u> | .37 | 7.72 |
| Reynolds-Joplin Gin Co., Hayti | 7.67 | ---- | <u>7.72</u> | .96 | 8.50 |
| Average Analysis | 7.97 | ---- | <u>7.51</u> | .53 | 7.77 |
| Guaranteed Analysis | 8.00 | ---- | 8.00 | ---- | 8.00 |

(D) Registration tags not attached.

Deficiencies are underlined.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|--|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| <u>Ark Mo 8-24-8</u> | | | | | |
| Kennett Grain & Seed Co., Kennett (D) | <u>7.76</u> | ---- | <u>20.84</u> | 1.72 | 9.61 |
| Allen & Davis Gin Co., Sikeston | <u>7.96</u> | ---- | <u>20.72</u> | 2.02 | 9.44 |
| A. C. Riley, New Madrid | <u>7.84</u> | ---- | <u>20.35</u> | 1.50 | 8.93 |
| Average Analysis | <u>7.85</u> | ---- | <u>20.64</u> | 1.75 | 9.33 |
| Guaranteed Analysis | 8.00 | ---- | 24.00 | ---- | 8.00 |
| <u>Ark Mo 12-12-12</u> | | | | | |
| Bertrand Cotton Co., Bertrand | <u>10.94</u> | ---- | <u>12.89</u> | .31 | 12.52 |
| Guaranteed Analysis | <u>12.00</u> | ---- | <u>12.00</u> | ---- | 12.00 |
| <u>Nitrolime</u> | | | | | |
| Campbell Gin Co., Campbell (D) | 20.30 | ---- | ---- | ---- | ---- |
| Guaranteed Analysis | 20.50 | ---- | ---- | ---- | ---- |
| <u>Nitramoncal</u> | | | | | |
| Clay County Cotton Co., Neelyville (D) (F) | 20.08 | ---- | ---- | ---- | ---- |
| Guaranteed Analysis | <u>20 /21</u> | ---- | ---- | ---- | ---- |
| ARMOUR FERTILIZER WORKS, | | | | | |
| EAST ST. LOUIS, ILL. | | | | | |
| <u>Big Crop 20% Superphosphate</u> | | | | | |
| Hixsen General Store, Belleview | ---- | ---- | 20.38 | 1.87 | ---- |
| H. L. Emery & Son, Nevada | ---- | ---- | 20.85 | .22 | ---- |
| Tevebaugh Feed Store, Gainesville | ---- | ---- | 19.75 | .20 | ---- |
| Fogarty Coal & Grain Co., St. Joseph | ---- | ---- | 19.98 | .62 | ---- |
| Average Analysis | ---- | ---- | 20.24 | .73 | ---- |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | ---- |
| <u>Big Crop 45% Superphosphate</u> | | | | | |
| Whitlock & Lines, Monett | ---- | ---- | 45.72 | .40 | ---- |
| Asbell Produce & Feed Co., Burlington Junction | ---- | ---- | 44.69 | .46 | ---- |
| Weston Mill & Elevator, Weston | ---- | ---- | 44.70 | .55 | ---- |
| M. F. A. Central Co-op., Keytesville | ---- | ---- | 44.72 | .78 | ---- |
| Carter's Feed Store, Chillicothe (D) | ---- | ---- | 45.82 | .33 | ---- |
| Langfitt Elevators, Bethany | ---- | ---- | 45.01 | .74 | ---- |
| Old Mill Grain & Seed Co., Lees Summit | ---- | ---- | 44.42 | .73 | ---- |
| Fayette Feed Store, Fayette | ---- | ---- | 44.39 | .81 | ---- |
| Average Analysis | ---- | ---- | 44.93 | .60 | ---- |
| Guaranteed Analysis | ---- | ---- | 45.00 | ---- | ---- |
| <u>Big Crop 0-9-27</u> | | | | | |
| Cypress Supply Co., Portageville | ---- | ---- | 9.72 | .63 | 27.06 |
| Green's Feed & Grain Co., Salem | ---- | ---- | 9.86 | .36 | 25.60 |
| Average Analysis | ---- | ---- | 9.79 | .50 | <u>26.33</u> |
| Guaranteed Analysis | ---- | ---- | 9.00 | ---- | 27.00 |
| <u>Big Crop 0-12-12</u> | | | | | |
| Buschmann Feed Store, Vienna | ---- | ---- | 11.87 | 1.72 | 11.94 |
| Pease-Moore Milling Co., West Plains (D) | ---- | ---- | 12.50 | .98 | 12.80 |
| Tevebaugh Feed Store, Gainesville | ---- | ---- | 12.08 | .47 | 13.07 |
| Average Analysis | ---- | ---- | 12.15 | 1.06 | 12.60 |
| Guaranteed Analysis | ---- | ---- | 12.00 | ---- | 12.00 |
| <u>Big Crop 0-14-7</u> | | | | | |
| R. L. Garren, Piedmont | ---- | ---- | 13.40 | 1.48 | 8.16 |
| Hixsen General Store, Belleview | ---- | ---- | <u>14.21</u> | 1.46 | 7.24 |
| Pease-Moore Milling Co., West Plains (D) | ---- | ---- | 14.08 | 1.39 | 7.29 |
| Tevebaugh Feed Store, Gainesville | ---- | ---- | 13.86 | 1.24 | 7.86 |
| Craig Brothers, Memphis | ---- | ---- | 14.62 | 1.06 | 7.33 |
| Average Analysis | ---- | ---- | 14.03 | 1.33 | 7.58 |
| Guaranteed Analysis | ---- | ---- | 14.00 | ---- | 7.00 |
| <u>Big Crop 0-20-20</u> | | | | | |
| Cypress Supply Co., Portageville | ---- | ---- | 20.62 | .37 | 20.62 |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | 20.00 |

(D) Registration tags not attached.

Deficiencies are underlined.

(F) Labels partly wrong.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|---|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| Big Crop 2-12-6 | | | | | |
| Piedmont Feed & Supply Store, Piedmont | 2.10 | ---- | 11.86 | .53 | 6.88 |
| H. L. Emery & Son, Nevada | 2.23 | ---- | 11.86 | 2.17 | 6.70 |
| Lethco Store, Ava | 2.16 | ---- | 12.24 | .86 | 6.28 |
| Sloops Produce & Feed Co., Queen City | 2.01 | ---- | 12.02 | .83 | 6.51 |
| Farmers Elevator Co., Salisbury | 2.15 | ---- | 10.32 | 3.51 | 6.14 |
| Truesdell Brothers, Clark | 2.29 | ---- | <u>10.97</u> | 2.90 | 6.52 |
| Turners Feed Store, Belgrade | 2.01 | ---- | 12.18 | .70 | 6.68 |
| Alexander Feed & Supply, Pleasant Hill | 2.32 | ---- | 12.39 | 1.29 | 6.03 |
| Craig Brothers, Memphis | 2.22 | ---- | 12.24 | 1.74 | 7.03 |
| Farmers Elevator Co., Sillex (D) | 2.41 | ---- | 12.81 | .82 | 6.68 |
| Old Monroe Elevator & Supply Co., Old Monroe | 2.22 | ---- | 12.26 | .99 | 6.24 |
| Chesterfield Farmers Elevator, Chesterfield (D) | 2.46 | ---- | 12.11 | 1.62 | 7.36 |
| Average Analysis | 2.22 | ---- | 11.94 | 1.50 | 6.59 |
| Guaranteed Analysis | 2.00 | ---- | 12.00 | ---- | 6.00 |
| Big Crop 3-9-18 | | | | | |
| Jonesway Gin Co., Kennett | 3.09 | ---- | 9.15 | .30 | 18.54 |
| Old Monroe Elevator & Supply Co., Old Monroe | 3.02 | ---- | 14.61 | .68 | 12.24 |
| Average Analysis | 3.06 | ---- | 11.88 | .49 | <u>15.39</u> |
| Guaranteed Analysis | 3.00 | ---- | 9.00 | ---- | 18.00 |
| Big Crop 3-9-27 | | | | | |
| Osteen & Adams Feed & Seed Co., Portageville | 3.15 | ---- | 9.05 | .33 | 26.82 |
| Jonesway Gin Co., Kennett | 3.06 | ---- | 10.44 | .40 | 25.38 |
| Northern Feed Co., Springfield | 3.15 | ---- | 9.11 | .32 | <u>27.18</u> |
| Average Analysis | 3.12 | ---- | 9.53 | .35 | 26.46 |
| Guaranteed Analysis | 3.00 | ---- | 9.00 | ---- | 27.00 |
| Big Crop 3-12-12 | | | | | |
| R. L. Bruce Feed Store, Naylor | 3.00 | ---- | 11.70 | .49 | 12.78 |
| Piedmont Feed & Supply Store, Piedmont | 3.06 | ---- | <u>11.82</u> | .37 | 12.52 |
| Grider Elevator, Appleton City | 3.07 | ---- | 11.86 | .57 | 12.71 |
| O. M. Cozad Mill, Jacksonville | 3.23 | ---- | 11.59 | 1.69 | 12.61 |
| Milne Feed & Produce, Paris (D) | 2.50 | ---- | <u>12.81</u> | 1.04 | 12.18 |
| Dungan & May, Lentner | 3.18 | ---- | 13.11 | 1.99 | 13.59 |
| Luray Produce Co., Luray | 3.35 | ---- | 12.11 | .52 | 12.26 |
| Farmers Elevator & Supply Co., Troy | 3.14 | ---- | 12.81 | .44 | 12.40 |
| Ed Steiner Farm Equipment, Gumbo (D) | 2.69 | ---- | 11.75 | 1.03 | 12.28 |
| L. E. Walton, New Truxton | 2.95 | ---- | <u>12.36</u> | .99 | 13.38 |
| Average Analysis | 3.02 | ---- | 12.15 | .91 | 12.67 |
| Guaranteed Analysis | 3.00 | ---- | 12.00 | ---- | 12.00 |
| Big Crop 3-18-9 | | | | | |
| Buschmann Feed Store, Vienna (A) (D) | 3.46 | ---- | 15.97 | .81 | 8.73 |
| H. L. Emery & Son, Nevada (A) | 3.42 | ---- | <u>18.08</u> | .67 | 9.28 |
| Owings Mill & Produce, Gallatin | 3.35 | ---- | 17.57 | .56 | 9.36 |
| Boh's Poultry & Feed Co., Farmington | 3.37 | ---- | <u>18.27</u> | .58 | 9.02 |
| Fenton Roller Mills, Fenton | 3.20 | ---- | 17.55 | .93 | 9.87 |
| Average Analysis | 3.36 | ---- | 17.49 | .71 | 9.25 |
| Guaranteed Analysis | 3.00 | ---- | 18.00 | ---- | 9.00 |
| Big Crop 4-12-4 | | | | | |
| Arthur Lee & Son, Dexter | 4.10 | ---- | 12.12 | .48 | 4.60 |
| Piedmont Feed & Supply Store, Piedmont | 4.11 | ---- | 11.46 | 1.78 | 5.06 |
| Keeth Produce Co., Iberia | 4.22 | ---- | <u>12.39</u> | .44 | 4.76 |
| O. M. Cozad Mill, Jacksonville | 4.18 | ---- | 12.10 | 2.19 | 5.04 |
| Truesdell Brothers, Clark | 4.19 | ---- | 13.31 | 1.14 | 5.60 |
| Carters Feed Store, Chillicothe | 3.99 | ---- | 11.66 | 1.66 | 5.02 |
| Schemel Feed Store, Perryville (D) | 3.98 | ---- | <u>11.85</u> | 1.23 | 4.43 |
| Boh's Poultry & Feed Co., Farmington | 4.23 | ---- | 11.89 | 2.26 | 5.72 |
| Turners Feed Store, Belgrade | 3.82 | ---- | 13.30 | 1.00 | 4.40 |
| St. Clair Feed Co., St. Clair | 4.49 | ---- | 11.88 | 1.50 | 4.49 |
| Rosebud Feed Co., Rosebud | 4.13 | ---- | 12.11 | 1.99 | 4.98 |

(D) Registration tags not attached.

(A) Not registered.

Deficiencies are underlined.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|---|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| (Big Crop 4-12-4 cont'd) | | | | | |
| Otten Truck Lines, Cole Camp. | 3.87 | ---- | 12.51 | 1.17 | 4.62 |
| Alexander Feed & Supply, Pleasant Hill. | 4.55 | ---- | 12.14 | 1.54 | 4.38 |
| Dungan & May, Lentner. | 3.43 | ---- | 11.72 | .96 | 5.36 |
| Albert Taylor, Plevna (D) | 4.16 | ---- | <u>11.82</u> | .98 | 5.30 |
| Meilicke Produce, Baring | 4.45 | ---- | 12.36 | 2.39 | 4.85 |
| Craig Brothers, Memphis | 3.42 | ---- | 12.10 | 1.25 | 4.34 |
| Farmers Elevator & Supply Co., Troy. | 3.44 | ---- | 12.71 | .52 | 4.75 |
| Valley Park Co-op. Elevator Ass'n., Valley Park. | 3.49 | ---- | 11.91 | .72 | 4.19 |
| M. F. A. Co-op. Ass'n. No. 20, Wentzville | 3.96 | ---- | 12.13 | .97 | 4.60 |
| L. E. Walton, New Truxton. | 4.05 | ---- | 11.61 | 1.63 | 4.52 |
| Average Analysis. | 4.01 | ---- | <u>12.15</u> | 1.32 | 4.81 |
| Guaranteed Analysis | 4.00 | ---- | 12.00 | ---- | 4.00 |
| Big Crop 4-24-12 | | | | | |
| W. M. Moore & Son, Ellington | 4.04 | ---- | 23.91 | .84 | 12.08 |
| Gingerich Produce, Green Top. | 4.20 | ---- | 24.02 | .73 | 12.25 |
| Meilicke Produce, Baring | 4.09 | ---- | 24.16 | .69 | 11.91 |
| Delbert Johnson, Halltown (H) | 4.64 | ---- | 23.39 | 1.16 | 10.81 |
| Boonville Mill & Grain Co., Boonville | 4.03 | ---- | <u>24.33</u> | .77 | 11.88 |
| Average Analysis. | 4.20 | ---- | 23.96 | .84 | 11.79 |
| Guaranteed Analysis | 4.00 | ---- | 24.00 | ---- | 12.00 |
| Vertagreen 5-10-5 | | | | | |
| Sunnyhill Feed & Seed Store, Cape Girardeau (H) . | 5.51 | ---- | 10.06 | 1.26 | 5.60 |
| Whitlock & Lines, Monett (H) (D) | 5.23 | ---- | 10.26 | .56 | 5.61 |
| Tevebaugh Feed Store, Gainesville | 5.49 | ---- | 10.19 | .41 | 5.86 |
| Asbell Produce & Feed Co., Burlington Junction (D) | 5.18 | ---- | 10.51 | 1.67 | 5.47 |
| St. Joseph Feed & Supply Co., St Joseph. | 5.29 | ---- | 9.94 | 1.79 | 5.17 |
| Weston Mill & Elevator, Weston | 4.64 | ---- | 11.85 | .15 | 5.12 |
| Northern Feed Co., Springfield | 5.17 | ---- | 9.93 | 2.16 | 5.43 |
| Sloops Produce & Feed, Queen City | 5.02 | ---- | 10.04 | .58 | 5.73 |
| Brockman & Shouse, Atlanta. | 4.59 | ---- | 10.61 | .64 | 5.84 |
| Bryans Feed & Produce, Princeton (D) | 5.14 | ---- | 10.74 | .29 | 4.98 |
| Schemel Feed Store, Perryville | 4.69 | ---- | 11.37 | .48 | 5.69 |
| Turners Feed Store, Belgrade | 5.16 | ---- | 10.35 | 1.03 | 6.08 |
| Hahn Feed Co., Union | 5.27 | ---- | 10.67 | .48 | 5.25 |
| Old Mill Grain & Seed Co., Lees Summit | 5.17 | ---- | 11.23 | .27 | 5.12 |
| Milne Feed & Produce, Paris | 4.69 | ---- | 10.14 | .84 | 5.70 |
| Farmers Elevator Co., Silex (D) | 4.50 | ---- | 9.41 | 1.26 | 5.49 |
| Chesterfield Farmers Elevator, Chesterfield. . . . | 4.48 | ---- | 9.55 | 1.31 | 5.19 |
| Valley Park Co-op. Elevator Ass'n., Valley Park | 4.99 | ---- | 10.61 | 1.49 | 5.82 |
| Brink & Schindler, Sturgeon | 4.68 | ---- | 9.70 | 1.15 | 5.06 |
| Average Analysis. | 4.99 | ---- | 10.38 | .94 | 5.48 |
| Guaranteed Analysis | 5.00 | ---- | 10.00 | ---- | 5.00 |
| Big Crop (Tobacco) 5-10-10s | | | | | |
| Benton Feed Store, St. Joseph (A) | 5.14 | ---- | 10.30 | .30 | 9.32 |
| Weston Mill & Elevator, Weston | 6.24 | ---- | 9.68 | .37 | <u>9.11</u> |
| Average Analysis. | 5.69 | ---- | 9.99 | .34 | 9.22 |
| Guaranteed Analysis | 5.00 | ---- | 10.00 | ---- | 10.00 |
| Vertagreen 6-12-12 | | | | | |
| Cypress Supply Co., Portageville | 6.12 | ---- | 11.96 | .56 | 12.43 |
| Piedmont Feed & Supply Store, Piedmont | 6.12 | ---- | 12.19 | .54 | 12.03 |
| W. M. Moore & Son, Ellington | 6.00 | ---- | 12.98 | .66 | <u>11.65</u> |
| Buschmann Feed Store, Vienna | 6.06 | ---- | 12.73 | .67 | 12.18 |
| Grider Elevator, Appleton City | 5.91 | ---- | 12.13 | .72 | 12.24 |
| Tevebaugh Feed Store, Gainesville | 6.01 | ---- | 12.12 | .73 | 12.82 |
| Northern Feed Co., Springfield. | 5.81 | ---- | 12.30 | .53 | 12.17 |
| Ruby Green, Inc., Kirksville | 5.68 | ---- | 12.07 | .83 | 12.34 |
| Fred M. Lange, Sedalia | 6.14 | ---- | 12.06 | .62 | <u>11.59</u> |
| Milne Feed & Produce, Paris (D) | 5.94 | ---- | 11.91 | .44 | 12.34 |

(A) Not registered.

(D) Registration tags not attached.

(H) Sample drawn from less than five containers.
Deficiencies are underlined.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|--|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| <u>(Vertagreen 6-12-12 cont'd.)</u> | | | | | |
| Ed Steiner Farm Equipment, Gumbo (D) | 5.00 | ---- | 14.84 | .99 | 10.68 |
| Brink & Schindler, Centralia | <u>5.90</u> | ---- | 11.84 | .34 | 12.69 |
| Average Analysis | 5.89 | ---- | 12.43 | .64 | 12.10 |
| Guaranteed Analysis | 6.00 | ---- | 12.00 | ---- | 12.00 |
| <u>Big Crop 6-18-6</u> | | | | | |
| R. L. Bruce Feed Store, Naylor | 5.81 | ---- | 17.82 | .47 | 7.81 |
| Pease-Moore Milling Co., West Plains (A) (D) | <u>5.96</u> | ---- | 16.33 | .47 | 7.14 |
| Peterson Feed & Seed Co., Tarkio (D) | 5.64 | ---- | 19.15 | .55 | 5.55 |
| Fogarty Coal & Grain Co., St. Joseph | 5.98 | ---- | 18.11 | .44 | 5.56 |
| Gingerich Produce, Green Top | 6.01 | ---- | 18.44 | .16 | 5.99 |
| Carter's Feed Store, Chillicothe | 6.23 | ---- | 16.65 | .33 | 7.06 |
| St. Clair Feed Co., St. Clair | 6.28 | ---- | 18.07 | .38 | 6.85 |
| Otten Truck Lines, Cole Camp | 5.96 | ---- | 18.43 | .67 | 5.94 |
| Fred M. Lange, Sedalia | 6.06 | ---- | 16.91 | .82 | 6.68 |
| Alexander Feed & Supply, Pleasant Hill | 6.16 | ---- | 17.42 | .91 | 6.22 |
| Smith Brothers Produce & Feeds, Wyaconda | 5.68 | ---- | 17.38 | .47 | 7.79 |
| Average Analysis | 5.98 | ---- | 17.70 | .52 | 6.60 |
| Guaranteed Analysis | 6.00 | ---- | 18.00 | ---- | 6.00 |
| <u>Big Crop 8-8-8</u> | | | | | |
| Grider Elevator, Appleton City | 7.59 | ---- | 8.88 | .29 | 8.34 |
| Sloops Produce & Feed, Queen City | 8.05 | ---- | 9.05 | .78 | 8.10 |
| O. M. Cozad Mill, Jacksonville | 8.09 | ---- | 9.18 | .75 | 8.20 |
| Langfitt Elevators, Bethany | 7.57 | ---- | 8.38 | .30 | 8.13 |
| Boh's Poultry & Feed Co., Farmington | 8.04 | ---- | 9.07 | .43 | 7.86 |
| St. Clair Feed Co., St. Clair | 8.20 | ---- | 8.67 | .58 | 7.66 |
| Versailles Feed & Produce, Versailles | 8.00 | ---- | 8.67 | .78 | 7.99 |
| M. L. Nixon, Ionia | 7.79 | ---- | 9.70 | .95 | 8.06 |
| Alexander Feed & Supply, Pleasant Hill | 7.96 | ---- | 8.69 | .89 | 8.08 |
| Albert Taylor, Plevna (D) | 7.77 | ---- | 9.08 | .80 | 7.90 |
| Prebe Brothers, Edina | 7.51 | ---- | 9.32 | .76 | 7.77 |
| Meilicke Produce, Baring | 8.18 | ---- | 8.57 | .78 | 7.95 |
| Kahoka Implement Co., Kahoka | 7.79 | ---- | 8.50 | .28 | 7.93 |
| Brumbaugh Feed Store, Taylor | 7.36 | ---- | 8.63 | .65 | 7.98 |
| Elkin Feed Store, Hallsville | 7.61 | ---- | 8.11 | .69 | 8.33 |
| Average Analysis | 7.83 | ---- | 8.83 | .65 | 8.02 |
| Guaranteed Analysis | 8.00 | ---- | 8.00 | ---- | 8.00 |
| <u>Big Crop (Tobacco) 8-8-8s</u> | | | | | |
| Weston Mill & Elevator, Weston | 7.94 | ---- | 8.52 | .26 | 7.98 |
| Guaranteed Analysis | 8.00 | ---- | 8.00 | ---- | 8.00 |
| <u>Gold Bond 8-8-8</u> | | | | | |
| Jonesway Gin Co., Kennett | 7.56 | ---- | 7.78 | .36 | 8.72 |
| Kelso Elevator, Mt. Vernon | 7.57 | ---- | 8.88 | .34 | 8.48 |
| Smith Brothers Produce & Feeds, Wyaconda | 7.88 | ---- | 8.36 | .89 | 7.94 |
| Average Analysis | 7.67 | ---- | 8.34 | .53 | 8.38 |
| Guaranteed Analysis | 8.00 | ---- | 8.00 | ---- | 8.00 |
| <u>Big Crop 8-24-8</u> | | | | | |
| Osceola Flour & Feed Co., Osceola | 7.76 | ---- | 23.93 | .59 | 8.53 |
| Bowers Produce Co., Windsor | 7.82 | ---- | 22.35 | .50 | 8.12 |
| Whitlock & Lines, Monett | 7.60 | ---- | 23.36 | .70 | 8.96 |
| Pearce Produce, Fairfax | 8.33 | ---- | 24.52 | .48 | 7.99 |
| Carter's Feed Store, Chillicothe | 8.01 | ---- | 23.75 | .55 | 9.06 |
| Ruby Green, Inc., Kirksville | 8.25 | ---- | 24.63 | .47 | 7.67 |
| Truesdell Brothers, Clark | 7.68 | ---- | 23.29 | .66 | 7.68 |
| Smith Brothers Produce & Feeds, Wyaconda | 7.92 | ---- | 24.39 | .96 | 8.40 |
| Average Analysis | 7.92 | ---- | 23.78 | .61 | 8.30 |
| Guaranteed Analysis | 8.00 | ---- | 24.00 | ---- | 8.00 |
| <u>Big Crop 8-32-0</u> | | | | | |
| Whitakers Feed & Seed Mill, Maryville | 8.16 | ---- | 29.72 | .73 | ---- |

(A) Not registered.

(D) Registration tags not attached.

Deficiencies are underlined.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|--|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| (Big Crop 8-32-0 cont'd.) | | | | | |
| Pearce Produce, Fairfax | 7.96 | ---- | 32.02 | .78 | ---- |
| Carter's Feed Store, Chillicothe | <u>7.81</u> | ---- | 32.43 | .62 | ---- |
| Average Analysis | 7.98 | ---- | 31.39 | .71 | ---- |
| Guaranteed Analysis | 8.00 | ---- | 32.00 | ---- | ---- |
| <u>Big Crop 10-6-4</u> | | | | | |
| Cypress Supply Co., Portageville | 9.16 | ---- | 8.74 | .83 | 7.65 |
| R. L. Bruce Feed Store, Naylor | <u>9.26</u> | ---- | 7.00 | .75 | 4.52 |
| Average Analysis | 9.21 | ---- | 7.87 | .79 | 6.09 |
| Guaranteed Analysis | 10.00 | ---- | 6.00 | ---- | 4.00 |
| <u>Vertagreen 10-8-6</u> | | | | | |
| Grider Elevator, Appleton City | 9.26 | ---- | 8.90 | .30 | 6.96 |
| Montgomery Feed Store, Rich Hill | <u>9.78</u> | ---- | 7.97 | .24 | 6.30 |
| St. Joseph Feed & Supply Co., St. Joseph | 9.57 | ---- | 8.11 | .27 | 6.09 |
| F. M. Stamper Co. Mill, Moberly | <u>9.64</u> | ---- | 8.01 | .34 | 6.84 |
| La Monte Elevator, La Monte | <u>9.41</u> | ---- | 8.56 | .74 | 6.46 |
| Kahoka Implement Co., Kahoka | 9.35 | ---- | 9.17 | .46 | 6.91 |
| Brink & Schindler, Sturgeon (D) | <u>9.77</u> | ---- | 8.87 | .96 | 6.34 |
| Average Analysis | 9.54 | ---- | 8.51 | .47 | 6.56 |
| Guaranteed Analysis | 10.00 | ---- | 8.00 | ---- | 6.00 |
| <u>Big Crop 10-20-0</u> | | | | | |
| Fogarty Coal & Grain Co., St. Joseph | 9.45 | ---- | <u>19.36</u> | .42 | ---- |
| Bryans Feed & Produce, Princeton | <u>9.83</u> | ---- | 19.90 | .38 | ---- |
| Fayette Feed Store, Fayette | <u>9.29</u> | ---- | 20.94 | .56 | ---- |
| Average Analysis | 9.52 | ---- | 20.07 | .45 | ---- |
| Guaranteed Analysis | 10.00 | ---- | 20.00 | ---- | ---- |
| <u>Armour's Pulverized Sheep Manure</u> | | | | | |
| Sunnyhill Feed & Seed Store, Cape Girardeau (H) | 2.02 | ---- | 1.68 | .25 | 3.19 |
| Cole County Farm Bureau Service Co., Jefferson City (H) (D) | 1.68 | ---- | 1.08 | .19 | 3.70 |
| Neosho Seed Co., Neosho (H) (D) | 1.15 | ---- | .99 | .15 | 2.89 |
| Springfield Seed Co., Springfield (D) | <u>1.48</u> | ---- | .93 | .16 | 4.48 |
| Average Analysis | 1.58 | ---- | <u>1.17</u> | .19 | 3.57 |
| Guaranteed Analysis | 1.50 | ---- | 1.00 | ---- | 2.00 |
| <u>Armours Bone Meal</u> | | | | | |
| Rosebud Feed Co., Rosebud (D) (E) | 2.83 | 26.90 | ---- | ---- | ---- |
| Guaranteed Analysis | None | None | ---- | ---- | ---- |
| <u>Red Muriate of Potash 60%</u> | | | | | |
| Jonesway Gin Co., Kennett (A) (D) | ---- | ---- | ---- | ---- | 60.70 |
| Guaranteed Analysis | ---- | ---- | ---- | ---- | 60.00 |
| BLYTHEVILLE FERTILIZER CORP., BLYTHEVILLE, ARK. | | | | | |
| <u>B. F. C. 0-20-20</u> | | | | | |
| Agricultural Service & Supply Co., Parma (D) | ---- | ---- | 19.72 | .48 | 17.01 |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | 20.00 |
| <u>B. F. C. 3-9-18</u> | | | | | |
| Campbell-Kirksey Gin Co., Risco | 3.17 | ---- | 11.32 | .46 | 14.91 |
| Allen-Davis Cotton Co., Matthews | 2.93 | ---- | 9.76 | .62 | 18.84 |
| A. T. Earls, Bragg City (D) | <u>3.05</u> | ---- | 9.41 | .62 | 18.10 |
| Woodside & Son Gin, Lilbourn (D) | 2.97 | ---- | 10.41 | .89 | 17.00 |
| Woodside & Son Gin, Lilbourn | 3.04 | ---- | 9.63 | .65 | 18.18 |
| Agricultural Service & Supply Co., Lilbourn | 3.29 | ---- | 9.63 | .70 | 19.63 |
| Clines Island Gin, Essex | 2.64 | ---- | 9.60 | .30 | 20.21 |
| Community Gin Co., Portageville (D) (E) | <u>3.29</u> | ---- | 10.76 | .59 | 16.76 |
| Average Analysis | 3.05 | ---- | 10.07 | .60 | 17.95 |
| Guaranteed Analysis | 3.00 | ---- | 9.00 | ---- | 18.00 |

(A) Not Registered

(D) Registration tags not attached.

(E) Incomplete labels.

(H) Sample drawn from less than five containers.
Deficiencies are underlined.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|--|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| B. F. C. 3-9-27 | | | | | |
| Black River Gin Co., Quin (D) | 1.65 | ---- | 10.06 | .27 | 28.62 |
| Agricultural Service & Supply Co., Parma (D) . . | <u>2.39</u> | ---- | 9.39 | .31 | 26.30 |
| Black Gin Co., Morley | <u>2.68</u> | ---- | 9.13 | .30 | 29.29 |
| Average Analysis | <u>2.24</u> | ---- | 9.53 | .29 | 28.07 |
| Guaranteed Analysis | 3.00 | ---- | 9.00 | ---- | 27.00 |
| B. F. C. 3-12-12 | | | | | |
| Reynolds-Joplin Gin Co., Hayti (D) | 2.91 | ---- | 12.16 | .29 | 17.35 |
| Community Gin Co., Portageville (D) (E) | <u>3.15</u> | ---- | 11.99 | .64 | 12.84 |
| Campbell-Kirksey Gin Co., Risco (D) | <u>2.71</u> | ---- | 12.42 | .43 | 14.66 |
| Agricultural Service & Supply Co., Parma (D) . . | <u>3.02</u> | ---- | 12.08 | .37 | 16.32 |
| Average Analysis | <u>2.95</u> | ---- | 12.16 | .43 | 15.29 |
| Guaranteed Analysis | 3.00 | ---- | 12.00 | ---- | 12.00 |
| B. F. C. 6-9-27 | | | | | |
| Bucoda Gin Co., Bucoda | 5.86 | ---- | 9.49 | .31 | 25.05 |
| Guaranteed Analysis | 6.00 | ---- | 9.00 | ---- | 27.00 |
| B. F. C. 8-8-8 | | | | | |
| Community Gin Co., Portageville (D) | 7.19 | ---- | 8.93 | .17 | 11.34 |
| Guaranteed Analysis | 8.00 | ---- | 8.00 | ---- | 8.00 |
| B. F. C. 8-24-8 | | | | | |
| Community Gin Co., Portageville (D) | 6.66 | ---- | 20.15 | .90 | 11.37 |
| Guaranteed Analysis | 8.00 | ---- | 24.00 | ---- | 8.00 |
| B. F. C. 12-12-12 | | | | | |
| Gobler Mercantile Co., Gobler | 8.28 | ---- | 12.56 | .34 | 15.85 |
| Guaranteed Analysis | 12.00 | ---- | 12.00 | ---- | 12.00 |
| CARNEGIE-ILLINOIS STEEL CORP., PITTSBURG, PENNA. | | | | | |
| U. S. S. Ammonium Sulphate | | | | | |
| Black's Produce, Oregon (D) | 20.75 | ---- | ---- | ---- | ---- |
| Guaranteed Analysis | 20.60 | ---- | ---- | ---- | ---- |
| CENTRAL FARMERS FERTILIZER CO., CHICAGO, ILL. | | | | | |
| T. V. A. Concentrated Superphosphate 50% | | | | | |
| Farmers Exchange, Ava | ---- | ---- | 50.91 | .49 | ---- |
| Guaranteed Analysis | ---- | ---- | 50.00 | ---- | ---- |
| T. V. A. Calcium Metaphosphate 62% | | | | | |
| M. F. A. Central Co-op., Dexter | ---- | ---- | 60.29 | .21 | ---- |
| Farmers Exchange, Ava | ---- | ---- | <u>60.81</u> | .19 | ---- |
| Northwest Missouri Feed Distributors, Chillicothe | ---- | ---- | <u>61.97</u> | .83 | ---- |
| M. F. A. Central Co-op., Bethany | ---- | ---- | 60.85 | 1.50 | ---- |
| Producers Exchange, Truesdale | ---- | ---- | <u>62.09</u> | .86 | ---- |
| Average Analysis | ---- | ---- | 61.20 | .72 | ---- |
| Guaranteed Analysis | ---- | ---- | 62.00 | ---- | ---- |
| T. V. A. Ammonium Nitrate | | | | | |
| Cape County Farm Bureau Service Co., Jackson . | 33.77 | ---- | ---- | ---- | ---- |
| Butler County Farm Bureau Service Co., Poplar Bluff | 32.75 | ---- | ---- | ---- | ---- |
| Producers Exchange, Vienna | 32.88 | ---- | ---- | ---- | ---- |
| Cole County Farm Bureau Service Co., Jefferson City | 33.33 | ---- | ---- | ---- | ---- |
| Perry County Farm Bureau Service Co., Perryville | 33.23 | ---- | ---- | ---- | ---- |
| M. F. A. Central Co-op., St. Marys | 33.21 | ---- | ---- | ---- | ---- |
| M. F. A. Central Co-op., Kahoka | 33.78 | ---- | ---- | ---- | ---- |

(D) Registration tags not attached.
(E) Incomplete labels.

Deficiencies are underlined.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|--|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| (T. V. A. Ammonium Nitrate cont'd.) | | | | | |
| Lincoln County Farm Bureau Service Co., Troy . . . | 33.38 | ---- | ---- | ---- | ---- |
| Average Analysis | 33.29 | ---- | ---- | ---- | ---- |
| Guaranteed Analysis | 33.00 | ---- | ---- | ---- | ---- |
| CHILEAN NITRATE SALES CORP., NEW YORK, N. Y. | | | | | |
| Champion Brand Nitrate of Soda | | | | | |
| Weston Mill & Elevator, Weston (D) | 16.04 | ---- | ---- | ---- | ---- |
| Guaranteed Analysis | 16.00 | ---- | ---- | ---- | ---- |
| CONSUMERS COOPERATIVE ASS'N., KANSAS CITY, MO. | | | | | |
| Co-op 0-20-0 | | | | | |
| Ray-Carroll County Grain Growers, Carrollton (D) | ---- | ---- | 23.49 | 3.89 | ---- |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | ---- |
| Co-op 0-48-0 | | | | | |
| Monroe County Farm Bureau Service Co., Paris | ---- | ---- | 47.41 | 1.04 | ---- |
| Guaranteed Analysis | ---- | ---- | 48.00 | ---- | ---- |
| Co-op 0-20-10 | | | | | |
| Farmers Exchange, Macon (D) | ---- | ---- | 19.70 | 1.93 | 5.37 |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | 10.00 |
| Co-op 0-20-20 | | | | | |
| Sullivan County Co-op Lumber Co., Milan (D) | ---- | ---- | 18.33 | 1.50 | 16.04 |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | 20.00 |
| Co-op 2-12-6 | | | | | |
| M. F. A. Central Co-op., Bethany | 2.30 | ---- | 13.39 | .79 | 6.18 |
| Guaranteed Analysis | 2.00 | ---- | 12.00 | ---- | 6.00 |
| Co-op 4-12-4 | | | | | |
| Farmers Exchange, Macon (D) | 4.50 | ---- | 14.14 | .86 | 4.17 |
| Co-op Farm Supply Store, Green City (D) | 4.97 | ---- | 15.57 | 1.02 | 4.40 |
| Ray-Carroll County Grain Growers, Carrollton (D) | 4.68 | ---- | 11.75 | 1.28 | 6.72 |
| United Cooperative, Liberty | 5.87 | ---- | 12.55 | .58 | 5.04 |
| St. Joseph Feed & Supply Co., St. Joseph (D) | 4.31 | ---- | 13.07 | 1.26 | 6.16 |
| Average Analysis | 4.87 | ---- | 13.42 | 1.00 | 5.30 |
| Guaranteed Analysis | 4.00 | ---- | 12.00 | ---- | 4.00 |
| Co-op 4-24-12 | | | | | |
| Co-op Farm Supply Store, Green City (D) | 4.08 | ---- | 21.99 | 1.89 | 11.09 |
| Farmers Exchange, Macon (D) | 4.12 | ---- | 23.89 | .56 | 11.36 |
| Monroe County Farm Bureau Service Co., Paris | 4.11 | ---- | 23.15 | 1.65 | 10.58 |
| Average Analysis | 4.10 | ---- | 23.01 | 1.37 | 11.01 |
| Guaranteed Analysis | 4.00 | ---- | 24.00 | ---- | 12.00 |
| Co-op 8-8-8 | | | | | |
| Ray-Carroll County Grain Growers, Carrollton (D) | 7.82 | ---- | 8.51 | .62 | 8.78 |
| United Cooperative, Liberty | 8.56 | ---- | 10.47 | .67 | 7.89 |
| Monroe County Farm Bureau Service Co., Paris | 8.50 | ---- | 9.34 | .68 | 8.90 |
| Average Analysis | 8.29 | ---- | 9.44 | .66 | 8.52 |
| Guaranteed Analysis | 8.00 | ---- | 8.00 | ---- | 8.00 |
| Co-op 8-24-8 | | | | | |
| Co-op Farm Supply Store, Green City | 8.19 | ---- | 21.96 | .94 | 7.89 |
| Cameron Co-op Elevator Ass'n., Cameron (D) | 7.64 | ---- | 20.73 | .87 | 7.92 |
| Ray-Carroll County Grain Growers, Carrollton (D) | 8.51 | ---- | 21.23 | .82 | 8.12 |
| M. F. A. Central Co-op., Bethany | 7.54 | ---- | 20.66 | .94 | 7.98 |
| Farmers Elevator & Supply Co., Clinton (D) | 8.18 | ---- | 21.97 | 1.26 | 6.88 |
| United Cooperative, Liberty | 8.32 | ---- | 24.16 | .69 | 7.82 |
| Ray-Carroll County Grain Growers, Richmond | 8.58 | ---- | 22.48 | 1.05 | 11.03 |

(D) Registration tags not attached.

Deficiencies are underlined.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|--|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| (Co-op 8-24-8 cont'd.) | | | | | |
| Monroe County Farm Bureau Service Co., Paris . | 8.64 | ---- | <u>22.36</u> | .72 | 8.90 |
| M. F. A. Co-op. Ass'n., Higginsville | 8.20 | ---- | <u>23.69</u> | 1.46 | 8.10 |
| Fayette Co-op. Mill & Elevator Co., Fayette (D) . | 7.94 | ---- | <u>23.01</u> | .89 | 8.21 |
| Average Analysis | 8.17 | ---- | <u>22.23</u> | .96 | 8.29 |
| Guaranteed Analysis | 8.00 | ---- | 24.00 | ---- | 8.00 |
| Farmers Plant Food 8-24-8 | | | | | |
| Ray-Carroll County Grain Growers, Polo (A) (D) . | 5.88 | ---- | <u>20.58</u> | 1.05 | <u>6.51</u> |
| Guaranteed Analysis | 8.00 | ---- | <u>24.00</u> | ---- | 8.00 |
| Co-op 8-32-0 | | | | | |
| Sullivan County Co-op Lumber Co., Milan (D) . . | 6.81 | ---- | <u>25.30</u> | 1.93 | ---- |
| Farmers Elevator & Supply Co., Clinton (D) . . . | <u>6.86</u> | ---- | <u>21.51</u> | 1.27 | ---- |
| Average Analysis | 6.84 | ---- | <u>23.41</u> | 1.60 | ---- |
| Guaranteed Analysis | 8.00 | ---- | 32.00 | ---- | ---- |
| Co-op 10-20-0 | | | | | |
| United Cooperative, Liberty | 9.23 | ---- | 21.68 | 1.07 | ---- |
| Monroe County Farm Bureau Service Co., Paris . | <u>9.54</u> | ---- | 20.18 | 1.22 | ---- |
| Emma Co-op. Elevator Co., Sweet Springs | <u>9.82</u> | ---- | 19.75 | .75 | ---- |
| Average Analysis | 9.53 | ---- | 20.54 | 1.01 | ---- |
| Guaranteed Analysis | 10.00 | ---- | 20.00 | ---- | ---- |
| Co-op 0-0-60 | | | | | |
| United Cooperative, Liberty | ---- | ---- | ---- | ---- | 62.24 |
| St. Charles County Farm Bureau Service Co., St. Charles | ---- | ---- | ---- | ---- | 60.20 |
| Average Analysis | ---- | ---- | ---- | ---- | 61.22 |
| Guaranteed Analysis | ---- | ---- | ---- | ---- | 60.00 |
| DARLING & CO., EAST ST. LOUIS, ILL. | | | | | |
| Darling's 20% Superphosphate | | | | | |
| Van Buren Mercantile Co., Van Buren | ---- | ---- | 20.03 | .22 | ---- |
| Bertram Boyles Feed Store, Doniphan | ---- | ---- | <u>18.49</u> | .26 | ---- |
| Producers Exchange, Vienna | ---- | ---- | 19.91 | .43 | ---- |
| Alton Feed & Grain Co., Alton | ---- | ---- | 19.72 | .27 | ---- |
| Huot Feed Store, Linn | ---- | ---- | 20.70 | .25 | ---- |
| W. V. Bonner, Preston | ---- | ---- | 20.87 | .13 | ---- |
| Ozark Farmers Exchange, Ozark | ---- | ---- | 21.11 | .14 | ---- |
| Farmers Elevator Co., Salisbury | ---- | ---- | 21.00 | .45 | ---- |
| Producers Exchange, Bucklin | ---- | ---- | 20.10 | 1.15 | ---- |
| Fiddick's Fuel & Feed, Cameron | ---- | ---- | 20.53 | .47 | ---- |
| Hoffman & Reed, Trenton | ---- | ---- | 20.26 | .19 | ---- |
| Farmers Feed & Produce, Gallatin | ---- | ---- | 20.82 | .28 | ---- |
| Roy's Feed Store, Potosi | ---- | ---- | 20.52 | 1.13 | ---- |
| Farmers Produce Co., Shelbina | ---- | ---- | 21.76 | .14 | ---- |
| Summers Elevator, Boonville | ---- | ---- | 20.45 | .30 | ---- |
| Average Analysis | ---- | ---- | 20.42 | .39 | ---- |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | ---- |
| Darling's Twelve Twelve | | | | | |
| M. F. A. Co-op. Ass'n. No. 204, Owensville | ---- | ---- | 12.03 | .57 | 12.42 |
| Farmers Produce Co., Shelbina (D) | ---- | ---- | <u>11.29</u> | 1.04 | 12.71 |
| Producers Grain Co., Mexico | ---- | ---- | <u>11.62</u> | 1.15 | 12.17 |
| Average Analysis | ---- | ---- | <u>11.65</u> | .92 | 12.43 |
| Guaranteed Analysis | ---- | ---- | 12.00 | ---- | 12.00 |
| Darling's Twenty Ten | | | | | |
| Osteen & Adams Feed & Seed Co., Portageville . . | ---- | ---- | 20.30 | .23 | 10.56 |
| Heade's Elevator, Crocker | ---- | ---- | <u>18.84</u> | .49 | 10.09 |
| Green's Feed & Grain Co., Salem | ---- | ---- | <u>19.22</u> | .38 | 10.42 |

(A) Not registered.

(D) Registration tags not attached.

Deficiencies are underlined.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|---|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| <u>(Darling's Twenty Ten cont'd.)</u> | | | | | |
| Huot Feed Store, Linn | ---- | ---- | 19.78 | .37 | 10.10 |
| Average Analysis. | ---- | ---- | <u>19.54</u> | .37 | 10.29 |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | 10.00 |
| <u>Darling's Twenty Twenty</u> | | | | | |
| Alton Feed & Grain Co., Alton (D) | ---- | ---- | 18.57 | .58 | 19.87 |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | 20.00 |
| <u>Darling's Crop King</u> | | | | | |
| R. L. Garren, Piedmont | 1.98 | ---- | 12.21 | .47 | 6.58 |
| Alton Feed & Grain Co., Alton | 2.07 | ---- | 12.15 | .52 | 7.46 |
| W. V. Bonner, Preston | 1.98 | ---- | 12.17 | .51 | 6.39 |
| Kenny & Sudholt Spraying Service, Shelbyville | 2.63 | ---- | 11.46 | .68 | 6.78 |
| Henderson Produce, Bowling Green | 1.99 | ---- | <u>12.02</u> | .66 | 6.60 |
| Pendleton Feed Store, Pendleton | 2.75 | ---- | 13.32 | .81 | 6.19 |
| Average Analysis. | 2.23 | ---- | 12.22 | .61 | 6.67 |
| Guaranteed Analysis | 2.00 | ---- | 12.00 | ---- | 6.00 |
| <u>Darling's Big Potash</u> | | | | | |
| M. F. A. Co-op. Ass'n. No. 204, Owensville. | 2.80 | ---- | 9.71 | .72 | 15.29 |
| Luray Produce, Luray | <u>2.86</u> | ---- | 9.91 | .65 | <u>16.82</u> |
| Average Analysis. | <u>2.83</u> | ---- | 9.81 | .69 | <u>16.06</u> |
| Guaranteed Analysis | 3.00 | ---- | 9.00 | ---- | 18.00 |
| <u>Darling's Sure Winner</u> | | | | | |
| Kennett Grain & Seed Co., Kennett. | 2.85 | ---- | 12.36 | .44 | 12.39 |
| Alton Feed & Grain Co., Alton | <u>2.89</u> | ---- | 12.13 | .60 | 12.45 |
| Huot Feed Store, Linn | <u>2.89</u> | ---- | 11.78 | .80 | 12.69 |
| Sloop's Produce & Feed, Queen City (D) | <u>2.95</u> | ---- | <u>12.00</u> | .93 | 12.86 |
| Boh's Poultry & Feed Co., Farmington | <u>2.91</u> | ---- | 11.96 | .67 | 12.42 |
| Farmers Produce Co., Shelbyville | <u>3.18</u> | ---- | 12.11 | 1.49 | 12.65 |
| Luray Produce, Luray | 3.01 | ---- | 12.35 | .95 | 12.38 |
| Sherwood & Wells, Kahoka | 3.30 | ---- | 12.33 | 1.82 | 11.93 |
| Center Elevator, Center | 2.98 | ---- | 12.81 | 1.22 | 10.97 |
| Silex Grain Co., Silex (D) | 3.09 | ---- | 12.65 | .93 | <u>11.56</u> |
| Average Analysis. | 3.01 | ---- | 12.25 | .99 | <u>12.23</u> |
| Guaranteed Analysis | 3.00 | ---- | 12.00 | ---- | 12.00 |
| <u>Darling's Three Eighteen Nine</u> | | | | | |
| Keeth Produce Co., Iberia | 3.03 | ---- | 19.33 | .32 | 8.30 |
| Guaranteed Analysis | 3.00 | ---- | 18.00 | ---- | <u>9.00</u> |
| <u>Darling's Field Marshall</u> | | | | | |
| Van Buren Mercantile Co., Van Buren. | 3.78 | ---- | 12.09 | .51 | 4.75 |
| R. L. Garren, Piedmont | <u>3.72</u> | ---- | 12.04 | .43 | 4.61 |
| Lethco Store, Ava. | <u>3.65</u> | ---- | 12.31 | .63 | 5.19 |
| Schuyler County Produce, Lancaster (D) | <u>2.32</u> | ---- | 12.11 | .62 | 7.10 |
| Hoffman & Reed, Trenton. | <u>3.78</u> | ---- | 12.14 | .51 | 4.77 |
| Bethany Mill & Elevator, Bethany | <u>3.69</u> | ---- | 12.47 | .71 | 3.98 |
| Maysville Produce, Maysville | <u>3.75</u> | ---- | 12.08 | .60 | 4.48 |
| Breckenridge Mill, Breckenridge | <u>3.99</u> | ---- | 11.66 | .69 | 3.97 |
| Kenny-Sudholt Spraying Service, Shelbyville. | 3.83 | ---- | <u>11.88</u> | .82 | 4.70 |
| Verna O. Waibel, Novelty. | <u>3.79</u> | ---- | 11.68 | 1.05 | 4.78 |
| Sherwood & Wells, Kahoka | <u>3.92</u> | ---- | <u>11.85</u> | .78 | 4.64 |
| Center Elevator, Center | <u>3.44</u> | ---- | 11.03 | .54 | 3.98 |
| Longs Feed Store, Perry. | <u>3.94</u> | ---- | <u>12.18</u> | .52 | 4.18 |
| John Cowan, Auxvasse | <u>3.79</u> | ---- | 12.27 | .48 | 4.72 |
| Average Analysis. | 3.67 | ---- | 11.99 | .64 | 4.70 |
| Guaranteed Analysis | 4.00 | ---- | 12.00 | ---- | 4.00 |
| <u>Darling's Harvest Queen</u> | | | | | |
| Van Buren Mercantile Co., Van Buren. | 3.37 | ---- | 11.92 | .51 | 8.06 |
| Howard Brothers, Ellington | <u>3.30</u> | ---- | 11.90 | .92 | 8.30 |
| Bartel's Elevator, St. Marys | <u>3.73</u> | ---- | 12.22 | .68 | 8.30 |

(D) Registration tags not attached.

Deficiencies are underlined.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|--|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| (Darling's Harvest Queen cont'd.) | | | | | |
| M. F. A. Co-op. Ass'n. No. 204, Owensville. | 4.08 | ---- | 11.81 | 1.31 | 8.02 |
| Average Analysis. | 3.62 | ---- | <u>11.96</u> | .86 | 8.17 |
| Guaranteed Analysis. | 4.00 | ---- | 12.00 | ---- | 8.00 |
| <u>Darlings Four Twenty-Four Twelve</u> | | | | | |
| Long's Feed Store, Perry. | 4.01 | ---- | 22.39 | 1.21 | 12.07 |
| Burchfield Milling Co., Marshfield. | 4.07 | ---- | <u>23.36</u> | 1.27 | 12.22 |
| Average Analysis. | 4.04 | ---- | <u>22.88</u> | 1.24 | 12.15 |
| Guaranteed Analysis. | 4.00 | ---- | 24.00 | ---- | 12.00 |
| <u>Darling's Eight Eight Eight</u> | | | | | |
| Van Buren Mercantile Co., Van Buren. | 7.11 | ---- | 9.11 | .17 | 8.51 |
| Howard Brothers, Ellington. | <u>7.13</u> | ---- | 9.33 | .15 | 7.90 |
| Schuyler County Produce, Lancaster. | <u>7.64</u> | ---- | 8.26 | .52 | 8.50 |
| Farmers Feed & Produce, Gallatin. | <u>6.75</u> | ---- | 7.96 | .25 | 8.33 |
| Average Analysis. | 7.16 | ---- | 8.67 | .27 | 8.31 |
| Guaranteed Analysis. | 8.00 | ---- | 8.00 | ---- | 8.00 |
| <u>Darling's Eight Twenty-four Eight</u> | | | | | |
| Boh's Poultry & Feed Co., Farmington. | 7.60 | ---- | 22.98 | .72 | 8.56 |
| Guaranteed Analysis. | <u>8.00</u> | ---- | <u>24.00</u> | ---- | 8.00 |
| DAVISON CHEMICAL CORP., NASHVILLE, TENN. & PERRY, IA. | | | | | |
| <u>Davco Superphosphate 20%</u> | | | | | |
| Benton Feed Store, St. Joseph. | ---- | ---- | 19.70 | 1.05 | ---- |
| Guaranteed Analysis. | ---- | ---- | 20.00 | ---- | ---- |
| <u>Davco Granulated Superphosphate 20%</u> | | | | | |
| Armstrong & Jackson, Lowry City. | ---- | ---- | 19.47 | .67 | ---- |
| Brockman & Shouse, Atlanta. | ---- | ---- | <u>21.32</u> | 1.03 | ---- |
| Farmer's Feed & Produce, Gallatin (D). | ---- | ---- | 20.40 | 1.30 | ---- |
| Fred M. Lange, Sedalia. | ---- | ---- | 20.67 | .63 | ---- |
| Eagle Mill & Elevator Co., Higginsville. | ---- | ---- | 20.72 | .48 | ---- |
| Average Analysis. | ---- | ---- | 20.52 | .82 | ---- |
| Guaranteed Analysis. | ---- | ---- | 20.00 | ---- | ---- |
| <u>Davco 0-9-27</u> | | | | | |
| Huntsville Flour & Feed Co., Huntsville. | ---- | ---- | 9.20 | .90 | 27.22 |
| Guaranteed Analysis. | ---- | ---- | 9.00 | ---- | 27.00 |
| <u>Davco Red Diamond 0-12-12</u> | | | | | |
| Pease-Moore Milling Co., West Plains. | ---- | ---- | 12.83 | .39 | 10.93 |
| Guaranteed Analysis. | ---- | ---- | 12.00 | ---- | <u>12.00</u> |
| <u>Davco Red Diamond 0-14-7</u> | | | | | |
| Farmers Co-op. Exchange, Cabool. | ---- | ---- | 13.48 | .52 | 8.84 |
| Guaranteed Analysis. | ---- | ---- | <u>14.00</u> | ---- | 7.00 |
| <u>Davco 3-12-12</u> | | | | | |
| Huntsville Flour & Feed Co., Huntsville. | 3.01 | ---- | 11.83 | 1.02 | 12.11 |
| Farmers Feed & Produce, Gallatin. | 3.20 | ---- | 12.18 | 1.65 | 12.06 |
| Tucker Feed Store, Cowgill. | 3.02 | ---- | 12.08 | 1.40 | 11.54 |
| Monroe County Farm Bureau Service Co., Paris. | 3.21 | ---- | 13.00 | 1.88 | <u>13.12</u> |
| Average Analysis. | 3.11 | ---- | 12.27 | 1.49 | 12.21 |
| Guaranteed Analysis. | 3.00 | ---- | 12.00 | ---- | 12.00 |
| <u>Davco 3-18-9</u> | | | | | |
| H. H. Green Mill & Elevator, Pattonsburg. | 3.27 | ---- | 17.58 | 1.25 | 9.70 |
| Monroe County Farm Bureau Service Co., Paris. | 3.42 | ---- | <u>17.84</u> | 1.61 | 10.54 |
| A. C. Jones, Granger. | 3.07 | ---- | 19.47 | .83 | 9.06 |
| Average Analysis. | 3.25 | ---- | 18.30 | 1.23 | 9.77 |
| Guaranteed Analysis. | 3.00 | ---- | 18.00 | ---- | 9.00 |
| <u>Davco 4-12-4</u> | | | | | |
| Benton Feed Store, St. Joseph. | <u>3.79</u> | ---- | <u>11.53</u> | 1.16 | 5.26 |

(D) Registration tags not attached.

Deficiencies are underlined.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|--|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| (Davco 4-12-4 cont'd.) | | | | | |
| Davis Cleaver, Kirksville | 4.05 | ---- | <u>11.64</u> | 1.44 | 4.56 |
| Carroll County Farm Bureau Service Co., Carrollton | 4.26 | ---- | 11.89 | .88 | 4.64 |
| Carroll County Farm Bureau Service Co., Carrollton | 4.15 | ---- | 11.71 | .94 | 4.69 |
| Sparks Produce, Princeton. | 4.08 | ---- | <u>12.22</u> | 1.08 | 4.53 |
| Farmers Elevator & Exchange, Ewing. | 3.98 | ---- | 12.32 | 1.76 | 4.24 |
| Average Analysis. | 4.05 | ---- | 11.89 | 1.21 | 4.65 |
| Guaranteed Analysis | 4.00 | ---- | 12.00 | ---- | 4.00 |
| <u>Davco Red Diamond 4-12-4</u> | | | | | |
| Farmers Co-op. Exchange, Cabool | 4.40 | ---- | 11.47 | .72 | 4.50 |
| Guaranteed Analysis | 4.00 | ---- | <u>12.00</u> | ---- | 4.00 |
| <u>Davco 4-12-8</u> | | | | | |
| Huntsville Flour & Feed Co., Huntsville | 4.07 | ---- | 11.79 | 1.04 | 8.40 |
| Guaranteed Analysis | 4.00 | ---- | <u>12.00</u> | ---- | 8.00 |
| <u>Davco 4-24-12</u> | | | | | |
| Maysville Produce, Maysville | 4.03 | ---- | 23.96 | 1.04 | 11.82 |
| Guaranteed Analysis | 4.00 | ---- | 24.00 | ---- | 12.00 |
| <u>Davco Red Diamond 5-10-5</u> | | | | | |
| Pease-Moore Milling Co., West Plains | 5.08 | ---- | 9.96 | .59 | 6.57 |
| Montgomery Feed Store, Rich Hill. | 4.61 | ---- | 10.08 | .57 | 5.12 |
| Average Analysis. | 4.85 | ---- | 10.02 | .58 | 5.85 |
| Guaranteed Analysis | 5.00 | ---- | 10.00 | ---- | 5.00 |
| <u>Davco 8-24-8</u> | | | | | |
| Carroll County Farm Bureau Service Co., Carrollton | 8.13 | ---- | 23.08 | 1.47 | 7.96 |
| Bethany Mill & Elevator, Bethany | 7.59 | ---- | <u>22.59</u> | .91 | 8.85 |
| Maysville Produce, Maysville | 8.55 | ---- | <u>23.47</u> | 1.51 | 8.14 |
| Gibson Produce, Braymer | 7.92 | ---- | <u>21.27</u> | 1.06 | 9.36 |
| Average Analysis. | 8.05 | ---- | <u>22.60</u> | 1.24 | 8.58 |
| Guaranteed Analysis | 8.00 | ---- | 24.00 | ---- | 8.00 |
| <u>Davco 10-20-0</u> | | | | | |
| Whitakers Feed & Seed Mill, Maryville | 8.73 | ---- | 21.77 | .78 | ---- |
| Guaranteed Analysis | 10.00 | ---- | 20.00 | ---- | ---- |
| E. I. DUPONT DE NEMOURS & CO., WILMINGTON, DEL. | | | | | |
| <u>Nu Green</u> | | | | | |
| Chapman & Follmer Supply Co., Avilla (D) | 44.05 | ---- | ---- | ---- | ---- |
| Guaranteed Analysis | 44.00 | ---- | ---- | ---- | ---- |
| FAESY & BESTHOFF, INC., NEW YORK, N. Y. | | | | | |
| <u>Pure Bone Meal</u> | | | | | |
| Sunnyhill Feed & Seed Store, Cape Girardeau (H) | 3.03 | 27.55 | ---- | ---- | ---- |
| Guaranteed Analysis | 2.47 | 23.00 | ---- | ---- | ---- |
| FARM BELT FERTILIZER & CHEMICAL CO., KANSAS CITY, MO. | | | | | |
| <u>Farm Belt 0-46-0</u> | | | | | |
| Fiddick's Feed & Fuel, Cameron | ---- | ---- | 45.42 | .83 | ---- |
| Guaranteed Analysis | ---- | ---- | 46.00 | ---- | ---- |
| <u>Farm Belt 0-20-10</u> | | | | | |
| Stover Milling Co., Stover | ---- | ---- | 20.27 | .78 | 10.47 |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | 10.00 |

(D) Registration tags not attached.

(H) Sample drawn from less than five containers.

Deficiencies are underlined.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|--|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| Farm Belt 3-12-12 | | | | | |
| Northwest Missouri Feed Distributors, Chillicothe | 3.09 | ---- | 11.21 | 2.94 | 13.13 |
| Emma Co-op Elevator Co., Sweet Springs | 2.78 | ---- | 12.04 | 1.44 | 13.35 |
| Average Analysis | 2.94 | ---- | 11.63 | 2.19 | 13.24 |
| Guaranteed Analysis | 3.00 | ---- | 12.00 | ---- | 12.00 |
| Farm Belt 4-12-4 | | | | | |
| H. D. Moody Feed Store, Mound City (D) | 4.31 | ---- | 11.95 | 2.38 | 3.98 |
| Burns Feed Store, Savannah (D) | 3.82 | ---- | 11.82 | 1.86 | 5.08 |
| Weston Elevator Co., Weston | 4.41 | ---- | 11.68 | 2.16 | 3.84 |
| Brockman & Shouse, Atlanta | 5.12 | ---- | 12.90 | .80 | 4.37 |
| Linn-Chariton Farm Supply, Brookfield | 4.41 | ---- | 11.36 | 2.28 | 4.48 |
| Feeders Supply Co., Tina | 4.47 | ---- | 11.44 | 2.19 | 4.94 |
| Brock Produce, Maysville | 3.97 | ---- | 13.45 | .80 | 4.32 |
| Good News Feed Store, Knobnoster | 4.02 | ---- | 12.62 | 2.18 | 4.57 |
| Palmer's Feed & Produce, Pleasant Hill | 4.20 | ---- | 11.53 | 3.20 | 4.77 |
| Old Mill Grain & Seed Co., Lees Summit | 4.40 | ---- | 12.81 | 1.86 | 5.55 |
| R. V. Hedrick, Buckner | 4.09 | ---- | 13.01 | 2.14 | 4.44 |
| C. & R. Grain Company, Kearney | 4.30 | ---- | 11.93 | 1.75 | 4.56 |
| Farmers Exchange, Hardin | 4.28 | ---- | 11.94 | 2.71 | 4.84 |
| Emma Co-op Elevator Co., Sweet Springs | 3.96 | ---- | 11.97 | 1.62 | 4.68 |
| Average Analysis | 4.27 | ---- | 12.17 | 2.00 | 4.60 |
| Guaranteed Analysis | 4.00 | ---- | 12.00 | ---- | 4.00 |
| Farm Belt 4-16-0 | | | | | |
| Black's Produce, Oregon | 4.42 | ---- | 17.20 | 1.35 | ---- |
| Guaranteed Analysis | 4.00 | ---- | 16.00 | ---- | ---- |
| Farm Belt 4-24-12 | | | | | |
| H. H. Green Mill & Elevator, Pattonsburg | 4.36 | ---- | 23.00 | 1.33 | 12.74 |
| Dallas County Farmers Exchange, Buffalo | 4.73 | ---- | 23.60 | 1.38 | 12.02 |
| Average Analysis | 4.55 | ---- | 23.30 | 1.36 | 12.38 |
| Guaranteed Analysis | 4.00 | ---- | 24.00 | ---- | 12.00 |
| Farm Belt 8-8-8 | | | | | |
| Palmer's Feed & Produce, Pleasant Hill | 8.28 | ---- | 10.11 | .89 | 11.19 |
| C. & R. Grain Co., Kearney | 8.00 | ---- | 8.80 | 1.28 | 7.17 |
| Hart-Bartlett-Sturtevant, Hardin | 8.68 | ---- | 8.58 | 1.12 | 11.67 |
| H. D. Moody Feed Store, Mound City (D) | 7.67 | ---- | 9.75 | 1.55 | 8.03 |
| Average Analysis | 8.16 | ---- | 9.31 | 1.21 | 9.52 |
| Guaranteed Analysis | 8.00 | ---- | 8.00 | ---- | 8.00 |
| Minor L 8-8-8 | | | | | |
| Oral M. Robison, Lathrop | 8.29 | ---- | 8.91 | 1.39 | 7.98 |
| Brock Produce, Maysville | 8.31 | ---- | 7.83 | 1.41 | 8.05 |
| Hammachers, Richmond | 8.30 | ---- | 8.92 | 1.63 | 7.76 |
| Thiesfeld Feed & Seed Co., Fairfax | 8.20 | ---- | 9.22 | .31 | 8.16 |
| Peterson Feed & Seed Co., Tarkio | 8.06 | ---- | 8.87 | .36 | 7.98 |
| Dallas County Farmers Exchange, Buffalo | 8.39 | ---- | 8.25 | 1.63 | 7.93 |
| Average Analysis | 8.26 | ---- | 8.67 | 1.12 | 7.98 |
| Guaranteed Analysis | 8.00 | ---- | 8.00 | ---- | 8.00 |
| Farm Belt 8-24-8 | | | | | |
| Thiesfeld Feed & Seed Co., Fairfax | 8.50 | ---- | 24.15 | 1.10 | 7.95 |
| Burns Feed Store, Savannah (D) | 8.52 | ---- | 22.34 | 1.06 | 5.48 |
| Weston Elevator Co., Weston | 9.30 | ---- | 20.50 | 1.00 | 7.24 |
| Linn-Chariton Farm Supply, Brookfield | 8.43 | ---- | 23.81 | .62 | 8.37 |
| Macon Elevator, Macon | 8.29 | ---- | 24.89 | .76 | 7.55 |
| Fiddick's Feed & Fuel, Cameron | 8.39 | ---- | 23.76 | .54 | 8.84 |
| Feeders Supply Co., Tina | 8.75 | ---- | 24.07 | .88 | 7.78 |
| Northwest Missouri Feed Distributors, Chillicothe | 8.35 | ---- | 23.45 | .77 | 8.74 |
| Brock Produce, Maysville | 8.19 | ---- | 23.49 | .64 | 8.24 |
| Tucker Feed Store, Cowgill | 8.39 | ---- | 23.74 | .66 | 8.05 |
| Versailles Feed & Produce, Versailles | 8.46 | ---- | 23.36 | .69 | 8.88 |

(D) Registration tags not attached.

Deficiencies are underlined.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|--|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| <u>(Farm Belt 8-24-8 cont'd.)</u> | | | | | |
| Good News Feed Store, Knobnoster | 7.92 | ---- | 24.76 | 1.24 | 7.51 |
| Palmers Feed & Produce, Pleasant Hill. | 8.88 | ---- | 23.12 | 1.33 | 8.40 |
| Old Mill Grain & Seed Co., Lees Summit | 8.32 | ---- | <u>23.43</u> | .92 | 9.24 |
| C. & R. Grain Co., Kearney | 8.40 | ---- | 24.10 | 1.65 | 8.64 |
| Hart-Bartlett-Sturtevant, Hardin | 7.85 | ---- | 24.42 | .93 | 8.92 |
| Farmers Exchange, Hardin | 8.48 | ---- | 24.21 | .89 | 8.62 |
| Average Analysis. | 8.44 | ---- | 23.62 | .92 | 8.14 |
| Guaranteed Analysis | 8.00 | ---- | 24.00 | ---- | 8.00 |
| <u>Farm Belt 10-20-0</u> | | | | | |
| H. D. Moody Feed Store, Mound City (D) | 7.47 | ---- | 19.90 | 2.05 | ---- |
| Burns Feed Store, Savannah (D) | <u>9.17</u> | ---- | 20.45 | 1.90 | ---- |
| Average Analysis. | 8.32 | ---- | 20.18 | 1.98 | ---- |
| Guaranteed Analysis | 10.00 | ---- | 20.00 | ---- | ---- |
| FARM BUREAU SERVICE COMPANY OF MISSOURI, JEFFERSON CITY, MISSOURI | | | | | |
| <u>Green Diamond 0-20-20</u> | | | | | |
| Mercer County Farm Bureau Service Co., Princeton | ---- | ---- | 20.07 | .73 | 19.22 |
| Monroe County Farm Bureau Service Co., Paris | ---- | ---- | 21.11 | .59 | 19.04 |
| Marion County Farm Bureau Service Co., Palmyra | ---- | ---- | 19.95 | .75 | 20.99 |
| Ralls County Farm Bureau Service Co., New London. | ---- | ---- | 20.37 | .83 | 21.58 |
| St. Charles County Farm Bureau Service Co., St. Charles | ---- | ---- | 21.78 | .47 | 19.43 |
| Average Analysis. | ---- | ---- | 20.66 | .67 | 20.05 |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | 20.00 |
| <u>Green Diamond 3-9-27</u> | | | | | |
| Butler County Farm Bureau Service Co., Poplar Bluff (D) (F) | 2.58 | ---- | 9.33 | .20 | 29.38 |
| Guaranteed Analysis | 3.00 | ---- | 9.00 | ---- | 27.00 |
| <u>Green Diamond 3-12-12</u> | | | | | |
| Mercer County Farm Bureau Service Co., Princeton | 2.99 | ---- | 12.33 | .60 | 13.38 |
| Marion County Farm Bureau Service Co., Palmyra | 2.98 | ---- | 14.69 | .30 | 14.71 |
| Audrain County Farm Bureau Service Co., Mexico | <u>2.63</u> | ---- | 14.09 | .23 | 13.80 |
| St. Louis County Farm Bureau Service Co., Chesterfield | 2.60 | ---- | 15.88 | .30 | 12.56 |
| Foster Harmen, High Hill | 3.03 | ---- | 12.39 | .11 | 15.83 |
| Average Analysis. | 2.85 | ---- | 13.88 | .31 | 14.06 |
| Guaranteed Analysis | 3.00 | ---- | 12.00 | ---- | 12.00 |
| <u>Green Diamond 4-12-4</u> | | | | | |
| Lincoln County Farm Bureau Service Co., Troy | 4.14 | ---- | 11.28 | 2.40 | 5.61 |
| Guaranteed Analysis | 4.00 | ---- | 12.00 | ---- | 4.00 |
| <u>Green Diamond 4-24-12'</u> | | | | | |
| Cole County Farm Bureau Service Co., Jefferson, City | 4.52 | ---- | <u>23.39</u> | 1.39 | 12.53 |
| St. Charles County Farm Bureau Service Co., St. Charles | 4.61 | ---- | 24.09 | 1.41 | 12.22 |
| Average Analysis. | 4.57 | ---- | 23.74 | 1.40 | 12.38 |
| Guaranteed Analysis | 4.00 | ---- | 24.00 | ---- | 12.00 |
| <u>Green Diamond 5-15-10</u> | | | | | |
| Lincoln County Farm Bureau Service Co., Troy | <u>4.88</u> | ---- | <u>14.18</u> | 2.05 | 10.93 |
| St. Charles County Farm Bureau Service Co., St. Charles | 6.56 | ---- | 16.94 | 1.16 | 10.13 |
| Brown Yancey, New Bloomfield | 5.33 | ---- | 13.73 | 1.98 | 11.43 |
| Average Analysis. | 5.59 | ---- | <u>14.95</u> | 1.73 | 10.83 |
| Guaranteed Analysis | 5.00 | ---- | 15.00 | ---- | 5.00 |

(D) Registration tags not attached.
(F) Labels partly wrong.

Deficiencies are underlined.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|--|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| <u>Green Diamond 8-8-8</u> | | | | | |
| Marion County Farm Bureau Service Co., Palmyra | 8.36 | ---- | 8.84 | .31 | 8.80 |
| Guaranteed Analysis | 8.00 | ---- | 8.00 | ---- | 8.00 |
| <u>Green Diamond 8-24-8</u> | | | | | |
| Cole County Farm Bureau Service Co., Jefferson City. | 8.52 | ---- | <u>23.49</u> | .79 | 8.87 |
| Ralls County Farm Bureau Service Co., New London. | <u>7.44</u> | ---- | 24.49 | .81 | 8.99 |
| St. Charles County Farm Bureau Service Co., St. Charles | <u>7.44</u> | ---- | 24.14 | .96 | 8.37 |
| Average Analysis. | <u>7.80</u> | ---- | 24.04 | .85 | 8.74 |
| Guaranteed Analysis | 8.00 | ---- | 24.00 | ---- | 8.00 |
| <u>Green Diamond 0-0-52</u> | | | | | |
| Cole County Farm Bureau Service Co., Jefferson City. | ---- | ---- | ---- | ---- | 51.40 |
| Marion County Farm Bureau Service Co., Palmyra | ---- | ---- | ---- | ---- | 52.70 |
| Audrain County Farm Bureau Service Co., Mexico | ---- | ---- | ---- | ---- | 52.22 |
| M. F. A. Co-op. Ass'n. No. 20, Wentzville. | ---- | ---- | ---- | ---- | 53.28 |
| Average Analysis. | ---- | ---- | ---- | ---- | 52.40 |
| Guaranteed Analysis | ---- | ---- | ---- | ---- | 52.00 |
| <u>Green Diamond 0-0-60</u> | | | | | |
| Scott County Farm Bureau Service Co., Benton (D) (A). | ---- | ---- | ---- | ---- | 60.86 |
| Ralls County Farm Bureau Service Co., New London. | ---- | ---- | ---- | ---- | 60.10 |
| Average Analysis. | ---- | ---- | ---- | ---- | 60.48 |
| Guaranteed Analysis | ---- | ---- | ---- | ---- | 60.00 |
| FORT SMITH COTTON OIL CO., FT. SMITH, ARK. | | | | | |
| <u>Rais-Mor 0-20-0</u> | | | | | |
| Chamberlain Canning Co., Anderson. | ---- | ---- | <u>19.17</u> | .23 | ---- |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | ---- |
| <u>Rais-Mor 4-12-4</u> | | | | | |
| Chamberlain Canning Co., Anderson. | 3.89 | ---- | 11.90 | 1.28 | 4.27 |
| Guaranteed Analysis | <u>4.00</u> | ---- | 12.00 | ---- | 4.00 |
| <u>Rais-Mor 5-10-5</u> | | | | | |
| Chamberlain Canning Co., Anderson. | 4.79 | ---- | 9.92 | .50 | 5.09 |
| Guaranteed Analysis | <u>5.00</u> | ---- | 10.00 | ---- | 5.00 |
| GAYLORD CHEMICAL CO., KANSAS CITY, MO. | | | | | |
| <u>Sup-Ro 4-4-4</u> | | | | | |
| Springfield Seed Co., Springfield. | 6.13 | ---- | 8.10 | .24 | 6.22 |
| Guaranteed Analysis | 4.00 | ---- | 4.00 | ---- | 4.00 |
| <u>Sup-Ro 6-6-6</u> | | | | | |
| Neosho Seed Co., Neosho (H) (F). | 6.06 | ---- | 6.80 | .28 | 5.89 |
| Cantrell Seed House, Carthage. | <u>5.87</u> | ---- | 7.86 | .23 | <u>5.82</u> |
| Average Analysis. | <u>5.97</u> | ---- | 7.33 | .26 | <u>5.86</u> |
| Guaranteed Analysis | 6.00 | ---- | 6.00 | ---- | 6.00 |
| GOULARD & OLENA, INC., SKILLMAN, NEW JERSEY | | | | | |
| <u>Rose Food 7-8-5</u> | | | | | |
| Neosho Seed Co., Neosho (H) (A). | 7.49 | ---- | 9.50 | .50 | 6.14 |
| Guaranteed Analysis | <u>7.00</u> | ---- | 8.00 | ---- | 5.00 |

(A) Not registered.

(D) Registration tags not attached.

(F) Labels partly wrong.

(H) Sample drawn from less than five containers.
Deficiencies are underlined.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|---|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| HYDROPONIC CHEMICAL CO., INC., COPLEY, OHIO | | | | | |
| <u>Hyponex</u> | | | | | |
| Sunnyhill Feed & Seed Store, Cape Girardeau (H) . | 7.56 | ---- | 6.98 | .32 | 20.94 |
| Neosho Seed Co., Neosho (H) | 7.48 | ---- | 7.28 | .14 | 20.54 |
| Average Analysis | 7.52 | ---- | 7.13 | .23 | 20.74 |
| Guaranteed Analysis | 7.00 | ---- | 6.00 | ---- | 19.00 |
| INTERSTATE FERTILIZER CO., CAIRO, ILL. | | | | | |
| <u>Interstate 0-20-20</u> | | | | | |
| Scott County Farm Bureau Service Co., Benton . . | ---- | ---- | 21.06 | .10 | 19.39 |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | 20.00 |
| <u>Interstate 3-9-18</u> | | | | | |
| Cape Girardeau County Farm Bureau Service Co., Jackson | 3.06 | ---- | 8.66 | .15 | 18.50 |
| A. T. Earls, Bragg City | 3.03 | ---- | 9.54 | .36 | 18.14 |
| Average Analysis | 3.05 | ---- | 9.10 | .26 | 18.32 |
| Guaranteed Analysis | 3.00 | ---- | 9.00 | ---- | 18.00 |
| <u>Interstate 3-12-12</u> | | | | | |
| Scott County Farm Bureau Service Co., Benton . . | 3.09 | ---- | 12.11 | .29 | 12.35 |
| Guaranteed Analysis | 3.00 | ---- | 12.00 | ---- | 12.00 |
| <u>Interstate 5-10-20</u> | | | | | |
| Cape Girardeau County Farm Bureau Service Co., Jackson | 4.85 | ---- | 9.60 | .25 | 20.15 |
| Bertrand Cotton Co., Bertrand | 4.96 | ---- | 9.24 | .19 | 21.10 |
| Average Analysis | 4.91 | ---- | 9.42 | .22 | 20.63 |
| Guaranteed Analysis | 5.00 | ---- | 10.00 | ---- | 20.00 |
| <u>Interstate 6-12-12</u> | | | | | |
| Scott County Farm Bureau Service Co., Benton . . | 6.14 | ---- | 11.34 | 1.33 | 12.74 |
| Butler County Farm Bureau Service Co., Poplar Bluff | 6.12 | ---- | 11.78 | .16 | 12.27 |
| Average Analysis | 6.13 | ---- | 11.56 | .25 | 12.51 |
| Guaranteed Analysis | 6.00 | ---- | 12.00 | ---- | 12.00 |
| <u>Interstate 8-8-8</u> | | | | | |
| Cape Girardeau County Farm Bureau Service Co., Jackson | 7.58 | ---- | 8.29 | .22 | 9.13 |
| Reeves Feed Mill, Charleston | 6.53 | ---- | 9.36 | .29 | 10.48 |
| Butler County Farm Bureau Service Co., Poplar Bluff | 7.92 | ---- | 7.96 | .10 | 8.67 |
| Average Analysis | 7.34 | ---- | 8.54 | .20 | 9.43 |
| Guaranteed Analysis | 8.00 | ---- | 8.00 | ---- | 8.00 |
| <u>Nitramonical</u> | | | | | |
| Reeves Feed Mill, Charleston (D) (F) | 19.88 | ---- | ---- | ---- | ---- |
| Guaranteed Analysis | 20.21 | ---- | ---- | ---- | ---- |
| <u>Interstate 50% Muriate of Potash</u> | | | | | |
| Black Gin Co., Morley | ---- | ---- | ---- | ---- | 51.94 |
| Guaranteed Analysis | ---- | ---- | ---- | ---- | 50.00 |
| LION OIL CO., EL DORADO, ARK. | | | | | |
| <u>Lion's Ammonium Nitrate</u> | | | | | |
| Jonesway Gin Co., Kennett | 33.33 | ---- | ---- | ---- | ---- |
| Guaranteed Analysis | 33.50 | ---- | ---- | ---- | ---- |

(D) Registration tags not attached.
(F) Labels partly wrong.

(H) Sample drawn from less than five containers.
Deficiencies are underlined.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|---|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| McCORMICK & CO., INC., BALTIMORE, MD. | | | | | |
| <u>Hy-Gro</u> | | | | | |
| Neosho Seed Store, Neosho (H) (D) | 14.32 | ---- | 27.00 | .04 | 14.26 |
| Guaranteed Analysis | 13.00 | ---- | 26.00 | ---- | 13.00 |
| LANGE BROTHERS, INC., ST. LOUIS, MO. | | | | | |
| <u>L-B 0-20-0</u> | | | | | |
| Bollinger County Farm Bureau Service Co., Lutesville. | ---- | ---- | 19.41 | .55 | ---- |
| Dungan & May, Lentner. | ---- | ---- | 21.40 | .35 | ---- |
| Average Analysis. | ---- | ---- | 20.40 | .45 | ---- |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | ---- |
| <u>L-B 0-20-10</u> | | | | | |
| Cole County Farm Bureau Service Co., Jefferson City. | ---- | ---- | 19.04 | .86 | 10.94 |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | 10.00 |
| <u>L-B 0-20-20</u> | | | | | |
| Bollinger County Farm Bureau Service Co., Lutesville. | ---- | ---- | 19.52 | .44 | 18.84 |
| Cole County Farm Bureau Service Co., Jefferson City. | ---- | ---- | 19.89 | .60 | 19.05 |
| Average Analysis. | ---- | ---- | 19.71 | .52 | 18.95 |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | 20.00 |
| <u>L-B 2-12-6</u> | | | | | |
| Bollinger County Farm Bureau Service Co., Lutesville. | 2.40 | ---- | 12.68 | .34 | 6.42 |
| St. Francois County Farm Bureau Service Co., Farmington. | 2.05 | ---- | 12.03 | .65 | 6.31 |
| Dungan & May, Lentner | 2.29 | ---- | 11.98 | .77 | 6.33 |
| Average Analysis. | 2.25 | ---- | 12.23 | .59 | 6.35 |
| Guaranteed Analysis | 2.00 | ---- | 12.00 | ---- | 6.00 |
| <u>L-B 3-9-27</u> | | | | | |
| J. U. Parker, Sikeston | 2.99 | ---- | 9.33 | .29 | 27.56 |
| Guaranteed Analysis | 3.00 | ---- | 9.00 | ---- | 27.00 |
| <u>L-B 3-12-12</u> | | | | | |
| Bollinger County Farm Bureau Service Co., Lutesville. | 2.99 | ---- | 12.82 | .33 | 12.98 |
| St. Francois County Farm Bureau Service Co., Farmington. | 3.08 | ---- | 12.62 | .36 | 12.43 |
| Bradford Feed Store, Festus. | 3.02 | ---- | 12.23 | .50 | 12.32 |
| Dungan & May, Lentner | 3.30 | ---- | 12.93 | .62 | 12.72 |
| Average Analysis. | 3.10 | ---- | 12.65 | .45 | 12.61 |
| Guaranteed Analysis | 3.00 | ---- | 12.00 | ---- | 12.00 |
| <u>L-B 4-12-4</u> | | | | | |
| Doniphan Feed & Supply Co., Doniphan | 4.06 | ---- | 12.12 | .47 | 4.11 |
| St. Francois County Farm Bureau Service Co., Farmington. | 4.19 | ---- | 12.02 | .81 | 4.53 |
| Dungan & May, Lentner | 4.30 | ---- | 12.02 | 1.16 | 4.42 |
| Average Analysis. | 4.18 | ---- | 12.05 | .81 | 4.35 |
| Guaranteed Analysis | 4.00 | ---- | 12.00 | ---- | 4.00 |
| <u>L-B 4-24-12</u> | | | | | |
| Perry County Farm Bureau Service Co., Perryville | 4.13 | ---- | 22.96 | .94 | 12.44 |
| Dungan & May, Lentner | 4.02 | ---- | 23.60 | .98 | 11.82 |
| Average Analysis. | 4.08 | ---- | 23.28 | .96 | 12.13 |
| Guaranteed Analysis | 4.00 | ---- | 24.00 | ---- | 12.00 |

(D) Registration tags not attached.

Deficiencies are underlined.

(H) Sample drawn from less than five containers.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|--|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| <u>L-B 8-8-8</u> | | | | | |
| Perry County Farm Bureau Service Co., Perryville | <u>7.63</u> | ---- | 8.10 | .43 | 8.80 |
| St. Francois County Farm Bureau Service Co., Farmington | 7.76 | ---- | 8.03 | .52 | 7.92 |
| Bradford Feed Store, Festus | <u>7.97</u> | ---- | 8.24 | .59 | 7.98 |
| Dungan & May, Lentner | 8.18 | ---- | 8.63 | .22 | 8.15 |
| Average Analysis | 7.89 | ---- | 8.25 | .44 | 8.21 |
| Guaranteed Analysis | 8.00 | ---- | 8.00 | ---- | 8.00 |
| <u>L-B 8-24-8</u> | | | | | |
| Bollinger County Farm Bureau Service Co., Lutesville | 7.78 | ---- | 24.07 | .72 | 7.75 |
| Dungan & May, Lentner | <u>7.85</u> | ---- | 24.51 | .69 | 7.82 |
| Niemeyer Tractor Sales, Bowling Green | 7.94 | ---- | 23.79 | .81 | 8.30 |
| Average Analysis | 7.86 | ---- | 24.12 | .74 | 7.96 |
| Guaranteed Analysis | 8.00 | ---- | 24.00 | ---- | 8.00 |
| <u>L-B Ammonium Sulphate</u> | | | | | |
| Dungan & May, Lentner | 20.90 | ---- | ---- | ---- | ---- |
| Guaranteed Analysis | 20.60 | ---- | ---- | ---- | ---- |
| <u>L-B Muriate of Potash 60%</u> | | | | | |
| St. Francois County Farm Bureau Service Co., Farmington | ---- | ---- | ---- | ---- | 59.78 |
| M. F. A. Central Co-op., Kahoka | ---- | ---- | ---- | ---- | 58.77 |
| Niemeyer Tractor Sales, Bowling Green | ---- | ---- | ---- | ---- | 60.34 |
| Average Analysis | ---- | ---- | ---- | ---- | 59.63 |
| Guaranteed Analysis | ---- | ---- | ---- | ---- | 60.00 |
| MATHIESON CHEMICAL CORP., LITTLE ROCK, ARK; PASADENA, TEXAS; and BALTIMORE, MD. | | | | | |
| <u>White Diamond 0-20-0</u> | | | | | |
| Sheridan Grain Co., Sheridan | ---- | ---- | 21.04 | .21 | ---- |
| V. R. Cooter Produce, Milan | ---- | ---- | 21.29 | .41 | ---- |
| Average Analysis | ---- | ---- | 21.17 | .31 | ---- |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | ---- |
| <u>Mathieson 20% Superphosphate</u> | | | | | |
| Farmers Produce Exchange, Lebanon | ---- | ---- | 20.61 | .64 | ---- |
| Ranz Bros. Feed & Seed Co., Nevada | ---- | ---- | 20.05 | .69 | ---- |
| Bradford Feed Store, Festus | ---- | ---- | 19.52 | .28 | ---- |
| Tipton Farm Service Co., Tipton | ---- | ---- | 19.85 | .65 | ---- |
| Average Analysis | ---- | ---- | 20.01 | .57 | ---- |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | ---- |
| <u>Mathieson 4-12-4</u> | | | | | |
| Niemeyer Tractor Sales, Bowling Green | 4.23 | ---- | 12.06 | 1.01 | 4.66 |
| Guaranteed Analysis | 4.00 | ---- | 12.00 | ---- | 4.00 |
| <u>Mathieson 5-10-5</u> | | | | | |
| Ranz Bros. Feed & Seed Co., Nevada | 4.95 | ---- | 10.32 | .49 | 5.37 |
| Guaranteed Analysis | 5.00 | ---- | 10.00 | ---- | 5.00 |
| <u>White Diamond 5-15-30</u> | | | | | |
| J. C. Shetley & Son Feed Store, Fredericktown (D) Guaranteed Analysis | 4.42 | ---- | 14.00 | .38 | 29.76 |
| | 5.00 | ---- | 15.00 | ---- | 30.00 |
| <u>White Diamond 6-24-24</u> | | | | | |
| J. C. Shetley & Son Feed Store, Fredericktown (D) Guaranteed Analysis | 6.38 | ---- | 24.25 | .56 | 24.60 |
| | 6.00 | ---- | 24.00 | ---- | 24.00 |
| <u>Mathieson 8-8-8</u> | | | | | |
| J. C. Shetley & Son Feed Store, Fredericktown (D) | 7.96 | ---- | 8.51 | .29 | 9.29 |
| Ranz Bros. Feed & Seed Co., Nevada | 8.70 | ---- | 9.01 | .42 | 9.61 |
| Niemeyer Tractor Sales, Bowling Green | <u>7.16</u> | ---- | 8.73 | .57 | 9.41 |

(D) Registration tags not attached.

Deficiencies are underlined.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|--|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| (Mathieson 8-8-8 cont'd.) | | | | | |
| Average Analysis | 7.94 | ---- | 8.75 | .43 | 9.44 |
| Guaranteed Analysis | 8.00 | ---- | 8.00 | ---- | 8.00 |
| White Diamond 10-30-10 | | | | | |
| Hoffman & Reed, Trenton (D) | 10.18 | ---- | 31.47 | 1.13 | 9.88 |
| Guaranteed Analysis | 10.00 | ---- | 30.00 | ---- | 10.00 |
| Sasco-Phos 10-30-10 | | | | | |
| Ernest Stricklin, Houston | 10.28 | ---- | 31.79 | .89 | 10.10 |
| Louis C. Jones & Sons, Cameron (D) | 10.18 | ---- | 30.36 | 1.34 | 9.23 |
| Bryans Feed & Produce, Princeton (D) | 10.36 | ---- | 30.56 | 1.39 | <u>9.14</u> |
| Rohrbach Produce Co., California | 10.56 | ---- | 30.33 | 1.77 | <u>9.89</u> |
| Tipton Farm Service Co., Tipton | 11.24 | ---- | 30.43 | .87 | <u>10.59</u> |
| Liege Elevator Co., Liege | 10.64 | ---- | 31.56 | 1.14 | 9.96 |
| Average Analysis | 10.54 | ---- | 30.84 | 1.23 | 9.82 |
| Guaranteed Analysis | 10.00 | ---- | 30.00 | ---- | 10.00 |
| Mathieson 10-30-10 | | | | | |
| Eagle Mill & Elevator Co., Higginsville | 10.78 | ---- | 31.21 | 1.29 | 10.90 |
| F. M. Stamper Co., Centralia | 10.56 | ---- | 31.85 | 1.38 | 10.32 |
| Average Analysis | 10.87 | ---- | 31.53 | 1.34 | 10.61 |
| Guaranteed Analysis | 10.00 | ---- | 30.00 | ---- | 10.00 |
| White Diamond 12-12-12 | | | | | |
| Butler County Farm Bureau Service Co., Poplar Bluff | | | | | |
| | 11.68 | ---- | 12.28 | .38 | 13.62 |
| Guaranteed Analysis | <u>12.00</u> | ---- | 12.00 | ---- | 12.00 |
| Sasco-Phos 12-12-12 | | | | | |
| Louis C. Jones & Sons, Cameron (D) | 12.52 | ---- | 12.91 | .72 | 12.51 |
| Hoffman & Reed, Trenton | 12.68 | ---- | 16.12 | .55 | <u>11.42</u> |
| Liege Elevator Co., Liege | 13.00 | ---- | 12.39 | .91 | <u>12.24</u> |
| Average Analysis | 12.73 | ---- | 13.81 | .73 | 12.06 |
| Guaranteed Analysis | 12.00 | ---- | 12.00 | ---- | 12.00 |
| Mathieson 12-12-12 | | | | | |
| Ruby Green, Inc., Kirksville | 12.60 | ---- | 13.08 | 1.05 | 12.02 |
| Oral M. Robison, Lathrop | 12.80 | ---- | 13.85 | .93 | 11.90 |
| Northwest Mo. Feed Distributors, Chillicothe | 12.88 | ---- | 13.59 | .94 | 12.32 |
| Knobnoster Elevator, Knobnoster | 12.72 | ---- | 13.74 | 1.06 | 11.03 |
| Niemeyer Tractor Sales, Bowling Green | 13.20 | ---- | 13.69 | 1.09 | <u>11.59</u> |
| Missouri Hybrid Corn Co., Fulton | 12.24 | ---- | 13.65 | 1.30 | <u>11.53</u> |
| Average Analysis | 12.74 | ---- | 13.60 | 1.06 | <u>11.73</u> |
| Guaranteed Analysis | 12.00 | ---- | 12.00 | ---- | 12.00 |
| Sasco-Phos 12-24-12 | | | | | |
| J. C. Shetley & Son Feed Store, Fredericktown (D) | 12.04 | ---- | 24.17 | .28 | 11.77 |
| Ernest Stricklin, Houston | 12.04 | ---- | 24.90 | .19 | <u>12.46</u> |
| Bert Casey, Kirksville | 12.12 | ---- | 25.66 | .04 | 12.06 |
| Average Analysis | 12.07 | ---- | 24.91 | .17 | 12.10 |
| Guaranteed Analysis | 12.00 | ---- | 24.00 | ---- | 12.00 |
| Mathieson 12-24-12 | | | | | |
| Langfitt Elevators, Bethany | 11.84 | ---- | 24.67 | .13 | 12.16 |
| Bryans Feed & Produce, Princeton | 12.08 | ---- | 24.63 | .32 | 11.98 |
| H. H. Green Mill & Elevator, Pattonsburg | 12.04 | ---- | 24.95 | .30 | 12.30 |
| Rohrbach Produce Co., California | 11.88 | ---- | 24.31 | .24 | 12.02 |
| Wise Brothers, Stephens | 12.08 | ---- | 24.72 | .18 | 11.38 |
| Average Analysis | 11.98 | ---- | 24.66 | .23 | <u>11.97</u> |
| Guaranteed Analysis | 12.00 | ---- | 24.00 | ---- | 12.00 |
| Sasco-Phos 13-39-0 | | | | | |
| Louis C. Jones & Sons, Cameron (D) | 12.84 | ---- | 40.47 | .73 | ---- |
| Guaranteed Analysis | <u>13.00</u> | ---- | 39.00 | ---- | ---- |
| Sasco-Phos 16-20-0 | | | | | |
| Louis C. Jones & Sons, Cameron (D) | 16.15 | ---- | 22.04 | .37 | ---- |
| Guaranteed Analysis | 16.00 | ---- | 20.00 | ---- | ---- |

(D) Registration tags not attached.

Deficiencies are underlined.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|---|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| <u>Mathieson Ammo-Phos 16-20-0</u> | | | | | |
| Northwest Mo. Feed Distributors, Chillicothe. . . | 15.95 | ---- | 20.23 | .62 | ---- |
| Englehart Elevator, Mound City | 16.12 | ---- | 20.36 | .84 | ---- |
| Average Analysis. | 16.04 | ---- | 20.30 | .73 | ---- |
| Guaranteed Analysis | 16.00 | ---- | 20.00 | ---- | ---- |
| <u>Mathieson Muriate of Potash 60%</u> | | | | | |
| Tipton Farm Service Co., Tipton (G) | ---- | ---- | ---- | ---- | 59.84 |
| Guaranteed Analysis | ---- | ---- | ---- | ---- | 60.00 |
| MISSOURI FARMERS ASS'N., COLUMBIA, MO. | | | | | |
| <u>M. F. A. 0-20-0</u> | | | | | |
| M. F. A. Co-op. Ass'n., Sheridan | ---- | ---- | 19.90 | .20 | ---- |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | ---- |
| <u>M. F. A. 62% Calcium Meta-Phosphate</u> | | | | | |
| M. F. A. Farmers Exchange, Kirksville. | ---- | ---- | 61.95 | .80 | ---- |
| Guaranteed Analysis | ---- | ---- | 62.00 | ---- | ---- |
| <u>M. F. A. 0-16-8</u> | | | | | |
| Farmers Produce Exchange, Lebanon | ---- | ---- | 16.37 | .78 | 8.50 |
| Guaranteed Analysis | ---- | ---- | 16.00 | ---- | 8.00 |
| <u>M. F. A. 0-20-20</u> | | | | | |
| Reynolds County M. F. A., Ellington. | ---- | ---- | 18.35 | .33 | 19.12 |
| Producers Exchange, Vienna. | ---- | ---- | 20.32 | .83 | 20.60 |
| Farmers Co-op. Exchange, Houston | ---- | ---- | 20.74 | .75 | 20.84 |
| Farmers Exchange, St. James. | ---- | ---- | 20.21 | .64 | 20.70 |
| Farmers Elevator & Supply Co., Clinton | ---- | ---- | 17.54 | .34 | 19.28 |
| Farmers Exchange, Mt. Vernon | ---- | ---- | 21.18 | .62 | 20.54 |
| Producers Exchange, Mountain Grove | ---- | ---- | 20.90 | .65 | 20.67 |
| M. F. A. Farmers Exchange, Kirksville. | ---- | ---- | 19.26 | .84 | 20.01 |
| M. F. A. Central Co-op., Keytesville | ---- | ---- | 19.20 | .85 | 20.18 |
| Farmers Exchange, Trenton | ---- | ---- | 18.73 | .90 | 22.46 |
| M. F. A. Co-op. Ass'n. No. 27, Union | ---- | ---- | 19.40 | .64 | 19.97 |
| M. F. A. Central Co-op., Novelty | ---- | ---- | 19.25 | .43 | 19.01 |
| M. F. A. Central Co-op., Canton. | ---- | ---- | 18.41 | .27 | 19.14 |
| Average Analysis. | ---- | ---- | 19.50 | .62 | 20.19 |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | 20.00 |
| <u>M. F. A. 2-12-6</u> | | | | | |
| Farmers Exchange, West Plains. | 2.08 | ---- | 9.81 | 2.82 | 6.14 |
| Farmers Co-op. Exchange, Houston (F) | 2.18 | ---- | 9.93 | 2.82 | 6.41 |
| Producers Grain Co., Eldorado Springs (F) | 2.27 | ---- | 9.79 | 3.60 | 6.01 |
| Farmers Exchange, Mt. Vernon | 2.30 | ---- | 9.63 | 3.74 | 5.91 |
| Farmers Exchange, Iberia | 2.04 | ---- | 12.53 | .60 | 6.50 |
| Branson Farmers Exchange, Branson | 2.44 | ---- | 11.12 | 1.54 | 6.96 |
| Farmers Exchange, Brookfield | 2.00 | ---- | 11.41 | .52 | 6.89 |
| M. F. A. Co-op. Ass'n. No. 27, Union | 3.58 | ---- | 11.96 | .44 | 6.35 |
| Farmers Exchange, Shelbyville | 2.40 | ---- | 12.74 | 1.36 | 8.09 |
| Farmers Co-op. No. 96, Wyaconda | 2.32 | ---- | 13.21 | .34 | 7.14 |
| M. F. A. Central Co-op., Canton. | 2.39 | ---- | 12.56 | 1.02 | 6.46 |
| M. F. A. Central Co-op., Perry | 2.39 | ---- | 13.42 | .73 | 6.32 |
| M. F. A. Co-op. No. 20, Wentzville | 1.91 | ---- | 12.13 | .47 | 5.13 |
| Producers Exchange, Truesdale | 2.31 | ---- | 12.43 | .57 | 6.27 |
| M. F. A. Central Co-op., Fulton. | 2.26 | ---- | 12.60 | .53 | 6.27 |
| Average Analysis. | 2.32 | ---- | 11.68 | 1.41 | 6.46 |
| Guaranteed Analysis | 2.00 | ---- | 12.00 | ---- | 6.00 |
| <u>M. F. A. 3-9-18</u> | | | | | |
| M. F. A. Central Co-op., Dexter. | 3.42 | ---- | 9.36 | .50 | 18.77 |
| Guaranteed Analysis | 3.00 | ---- | 9.00 | ---- | 18.00 |

(F) Labels partly wrong.

(G) Labels missing entirely.

Deficiencies are underlined.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|--|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| M. F. A. 3-9-27 | | | | | |
| M. F. A. Central Co-op., Dexter | 3.51 | ---- | 9.06 | 1.14 | 27.68 |
| Guaranteed Analysis | 3.00 | ---- | 9.00 | ---- | 27.00 |
| M. F. A. 3-12-12 | | | | | |
| Farmers Exchange, West Plains | 2.97 | ---- | 10.05 | 2.97 | 12.12 |
| Producers Grain Co., El Dorado Springs | 3.17 | ---- | <u>10.63</u> | 2.58 | 11.62 |
| Parish Store, Climax Springs | 3.42 | ---- | <u>11.58</u> | .66 | <u>13.08</u> |
| Farmers Exchange, Macon | 3.35 | ---- | 12.35 | .70 | 13.07 |
| M. F. A. Exchange, Unionville | 3.12 | ---- | 11.86 | .47 | 11.96 |
| Farmers Exchange, Brookfield | 3.17 | ---- | 11.85 | 1.23 | 11.55 |
| M. F. A. Central Co-op., Bethany | 3.07 | ---- | 11.46 | 1.22 | 12.36 |
| M. F. A. Central Co-op., Pattonsburg | 3.03 | ---- | <u>11.98</u> | .52 | 11.38 |
| M. F. A. Co-op. Ass'n. No. 27, Union | 3.06 | ---- | 13.27 | .38 | <u>12.09</u> |
| M. F. A. Exchange, No. 84, Lincoln | 3.24 | ---- | 11.20 | 1.83 | 11.83 |
| M. F. A. Central Co-op., Stover | 3.15 | ---- | <u>11.52</u> | 1.25 | 11.85 |
| Farmers Elevator & Produce Co., Memphis | 3.08 | ---- | <u>12.94</u> | .81 | 12.33 |
| Farmers Co-op. No. 96, Wyaconda | 3.01 | ---- | 13.13 | .60 | 12.67 |
| M. F. A. Central Co-op., Canton | 3.10 | ---- | 13.14 | .62 | 12.70 |
| Dowell & Fuqua Feed & Seed Store, New London | 3.61 | ---- | 13.03 | .75 | 10.69 |
| M. F. A. Central Co-op., Perry | 3.21 | ---- | 12.93 | .65 | <u>12.90</u> |
| M. F. A. Co-op. No. 20, Wentzville | 3.00 | ---- | 12.48 | .57 | 12.70 |
| Producers Exchange, Truesdale | 3.23 | ---- | 13.13 | .67 | 12.35 |
| Foster Harman, High Hill | 3.15 | ---- | 12.70 | .53 | 12.59 |
| M. F. A. Central Co-op., Fulton | 3.08 | ---- | 11.92 | .78 | 12.40 |
| Average Analysis | 3.16 | ---- | 12.16 | .99 | 12.21 |
| Guaranteed Analysis | 3.00 | ---- | 12.00 | ---- | 12.00 |
| M. F. A. 4-12-4 | | | | | |
| Farmers Supply Co., Steelville | 4.54 | ---- | 12.50 | .68 | 4.72 |
| Farmers Exchange, West Plains | 4.35 | ---- | 9.11 | 4.67 | 4.18 |
| Producers Exchange, Mountain Grove | 4.01 | ---- | <u>11.93</u> | 1.17 | 4.91 |
| Farmers Exchange, Stanberry | 5.40 | ---- | 13.96 | .72 | 4.17 |
| Dallas County Farmers Exchange, Buffalo (H) | 4.09 | ---- | 10.40 | 2.73 | 4.91 |
| Branson Farmers Exchange, Branson | 4.27 | ---- | <u>9.95</u> | 3.14 | 4.79 |
| M. F. A. Central Co-op., Moberly | 4.09 | ---- | <u>11.77</u> | 1.00 | 4.61 |
| Farmers Exchange, Brookfield | 4.00 | ---- | <u>11.63</u> | 1.11 | 4.36 |
| Farmers Exchange, Trenton | 4.00 | ---- | <u>11.48</u> | 1.03 | 4.85 |
| M. F. A. Central Co-op., Bethany | 4.00 | ---- | <u>11.51</u> | 1.20 | 4.76 |
| M. F. A. Central Co-op., Pattonsburg | 3.90 | ---- | <u>12.68</u> | .42 | 4.73 |
| M. F. A. Central Co-op., St. Marys | 3.98 | ---- | 12.15 | 1.10 | 4.94 |
| M. F. A. Central Co-op., Ste. Genevieve | 4.19 | ---- | 12.19 | 1.51 | 4.19 |
| M. F. A. Co-op. Ass'n. No. 27, Union | 4.32 | ---- | 12.44 | 1.76 | 4.06 |
| M. F. A. Central Co-op., Versailles | 3.34 | ---- | 11.76 | 1.17 | 3.96 |
| M. F. A. Cooperative Ass'n, California | 4.21 | ---- | <u>12.57</u> | .66 | 4.89 |
| Cole Camp Producers Exchange, Cole Camp | 3.77 | ---- | 11.61 | 1.12 | 4.64 |
| M. F. A. Exchange No. 84, Lincoln | 4.23 | ---- | <u>12.84</u> | 1.16 | 4.54 |
| M. F. A. Central Co-op., Sedalia | 4.18 | ---- | 12.77 | 1.18 | 4.02 |
| M. F. A. Central Co-op., Warrensburg | 4.21 | ---- | 11.83 | 1.75 | 4.30 |
| M. F. A. Central Co-op., Paris | 4.07 | ---- | 12.14 | 1.76 | 4.25 |
| Dowell & Fuqua Feed & Seed Store, New London | 4.16 | ---- | 12.82 | 1.18 | 4.14 |
| M. F. A. Central Co-op., Perry | 4.00 | ---- | 12.74 | .96 | 4.22 |
| Producers Grain Co. No. 31, Montgomery City | 3.80 | ---- | 12.95 | 1.23 | 4.65 |
| M. F. A. Central Co-op., Fulton | 3.96 | ---- | 11.94 | .84 | 4.17 |
| T. W. Stewart, Sturgeon | 3.92 | ---- | 12.12 | 1.43 | 4.24 |
| Average Analysis | 4.12 | ---- | 11.99 | 1.41 | 4.47 |
| Guaranteed Analysis | 4.00 | ---- | 12.00 | ---- | 4.00 |
| M. F. A. 4-24-12 | | | | | |
| Farmers Co-op. Exchange, Cabool | 4.25 | ---- | <u>23.54</u> | 1.54 | 13.34 |
| Farmers Exchange, St. James | 4.21 | ---- | <u>23.75</u> | 1.18 | 13.58 |

(H) Sample drawn from less than five containers. Deficiencies are underlined.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|---|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| <u>(M. F. A. 4-24-12 cont'd.)</u> | | | | | |
| Producers Grain Co., El Dorado Springs | 4.13 | ---- | 23.63 | 1.11 | 11.07 |
| Farmers Exchange, Mt. Vernon | 4.21 | ---- | 23.49 | 1.03 | 12.23 |
| Farmers Produce Exchange, Lebanon | 4.12 | ---- | 24.17 | .76 | 12.90 |
| Producers Exchange, Mountain Grove | 3.96 | ---- | 25.53 | .77 | 12.31 |
| Farmers Exchange, Stanberry | 3.69 | ---- | 24.58 | .62 | 12.94 |
| Foster Harmen, High Hill | 4.10 | ---- | 24.06 | .84 | 11.99 |
| Average Analysis | 4.08 | ---- | 24.09 | .98 | 12.55 |
| Guaranteed Analysis | 4.00 | ---- | 24.00 | ---- | 12.00 |
| <u>M. F. A. Garden Grow</u> | | | | | |
| Farmers Supply Co., Steelville | 5.02 | ---- | 10.60 | .38 | 5.70 |
| Farmers Exchange, Salem | 5.08 | ---- | 10.55 | .43 | 5.50 |
| Farmers Exchange, West Plains | 4.64 | ---- | 10.31 | 1.09 | 7.43 |
| Farmers Exchange, Iberia | 4.67 | ---- | 9.91 | .77 | 6.86 |
| Producers Exchange, Marshfield | 5.65 | ---- | 9.82 | 1.21 | 5.39 |
| Branson Farmers Exchange, Branson | 5.33 | ---- | 9.66 | 1.14 | 5.32 |
| Ozark Farmers Exchange, Ozark | 5.33 | ---- | 10.06 | 1.24 | 5.50 |
| M. F. A. Central Co-op., Versailles | 5.07 | ---- | 11.01 | .39 | 5.46 |
| M. F. A. Central Co-op., Paris | 4.69 | ---- | 9.86 | 1.62 | 6.64 |
| Producers Grain Co. No. 31, Montgomery City | 4.67 | ---- | 9.88 | 1.40 | 5.77 |
| M. F. A. Central Co-op., Fulton | 4.86 | ---- | 10.11 | .44 | 6.16 |
| M. F. A. Central Co-op., Boonville | 4.97 | ---- | 9.64 | .61 | 5.79 |
| Average Analysis | 5.00 | ---- | 10.12 | .89 | 5.96 |
| Guaranteed Analysis | 5.00 | ---- | 10.00 | ---- | 5.00 |
| <u>M. F. A. 8-8-8</u> | | | | | |
| Reynolds County M. F. A., Ellington | 7.90 | ---- | 8.30 | .13 | 8.30 |
| Producers Exchange, Vienna | 8.04 | ---- | 7.89 | .31 | 8.13 |
| Farmers Exchange, West Plains | 8.04 | ---- | 8.17 | .68 | 8.26 |
| Producers Grain Co., El Dorado Springs | 8.60 | ---- | 8.17 | .61 | 7.92 |
| Farmers Exchange, Iberia | 8.68 | ---- | 8.23 | .55 | 8.02 |
| Farmers Exchange, Ava | 8.24 | ---- | 8.36 | .82 | 8.56 |
| Crane Farmers Exchange, Crane | 7.80 | ---- | 8.33 | .97 | 8.63 |
| Producers Exchange, Marshfield | 8.37 | ---- | 8.02 | .85 | 8.44 |
| Ozark Farmers Exchange, Ozark | 8.55 | ---- | 7.61 | 1.33 | 8.21 |
| Farmers Exchange, Macon | 8.03 | ---- | 8.66 | .29 | 7.92 |
| M. F. A. Central Co-op., Moberly | 7.93 | ---- | 8.39 | .36 | 8.62 |
| Farmers Exchange, Trenton | 7.93 | ---- | 7.93 | .19 | 8.36 |
| M. F. A. Central Co-op., Pattonsburg | 7.99 | ---- | 8.06 | .37 | 8.26 |
| M. F. A. Co-op. Ass'n. No. 27, Union | 8.28 | ---- | 8.47 | .58 | 8.54 |
| M. F. A. Co-op. Ass'n. No. 204, Owensville | 8.40 | ---- | 8.96 | .37 | 8.16 |
| M. F. A. Cooperative Ass'n., California | 8.22 | ---- | 8.47 | .41 | 7.95 |
| Cole Camp Producers Exchange, Cole Camp | 8.36 | ---- | 8.71 | .27 | 8.32 |
| M. F. A. Exchange No. 84, Lincoln | 8.74 | ---- | 7.70 | 1.28 | 8.14 |
| Farmers Produce Co., Shelby | 8.40 | ---- | 8.99 | .34 | 8.48 |
| M. F. A. Central Co-op., Novelty | 8.10 | ---- | 9.11 | .32 | 8.16 |
| M. F. A. Central Co-op., Canton | 7.96 | ---- | 8.43 | .42 | 8.46 |
| Producers Grain Co., Mexico | 8.16 | ---- | 8.40 | .20 | 8.60 |
| Average Analysis | 8.21 | ---- | 8.33 | .53 | 8.29 |
| Guaranteed Analysis | 8.00 | ---- | 8.00 | ---- | 8.00 |
| <u>M. F. A. 8-24-8</u> | | | | | |
| Farmers Produce Exchange, Lebanon | 7.59 | ---- | 23.72 | 1.38 | 9.42 |
| M. F. A. Co-op. Ass'n., Sheridan | 7.76 | ---- | 23.87 | .76 | 8.34 |
| Farmers Exchange, Stanberry | 8.24 | ---- | 23.75 | .75 | 8.99 |
| Silas McCubbins, Clark | 8.77 | ---- | 25.20 | .90 | 9.43 |
| M. F. A. Central Co-op., Maysville | 8.73 | ---- | 23.25 | .77 | 9.30 |
| M. F. A. Co-op. Ass'n. No. 204, Owensville | 8.46 | ---- | 24.72 | .83 | 9.20 |
| M. F. A. Central Co-op., Paris | 7.57 | ---- | 23.87 | .58 | 10.18 |
| Producers Grain Co., Mexico | 8.32 | ---- | 24.14 | .81 | 8.64 |

Deficiencies are underlined.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|--|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| (M. F. A. 8-24-8 cont'd.) | | | | | |
| Average Analysis | 8.18 | ---- | 24.07 | .85 | 9.19 |
| Guaranteed Analysis | 8.00 | ---- | 24.00 | ---- | 8.00 |
| <u>M. F. A. 10-10-10</u> | | | | | |
| M. F. A. Central Co-op., Dexter | 10.28 | ---- | 11.06 | .29 | 10.59 |
| Farmers Exchange, St. James | 9.80 | ---- | 10.64 | .36 | 11.33 |
| Farmers Exchange, Salem | 10.00 | ---- | 10.85 | .33 | 11.26 |
| Farmers Exchange, Stanberry | 9.75 | ---- | 10.44 | .29 | 10.79 |
| M. F. A. Farmers Exchange, Kirksville | 10.56 | ---- | 11.12 | .23 | 10.62 |
| M. F. A. Exchange, Unionville | 10.24 | ---- | 11.25 | .38 | 10.97 |
| M. F. A. Central Co-op., Keytesville | 9.96 | ---- | 11.05 | .25 | 10.32 |
| Farmers Exchange, Trenton | 9.98 | ---- | 11.41 | .27 | 10.24 |
| M. F. A. Central Co-op., Perry | 10.64 | ---- | 10.84 | .29 | 11.25 |
| Average Analysis | 10.13 | ---- | 10.96 | .30 | 10.82 |
| Guaranteed Analysis | 10.00 | ---- | 10.00 | ---- | 10.00 |
| <u>M. F. A. 10-20-0</u> | | | | | |
| Farmers Exchange, Salem | 9.88 | ---- | 18.29 | .46 | ---- |
| Guaranteed Analysis | 10.00 | ---- | 20.00 | ---- | ---- |
| <u>Ammonsulfatsalpeter</u> | | | | | |
| M. F. A. Farmers Exchange, Kirksville (H) | 26.00 | ---- | ---- | ---- | ---- |
| M. F. A. Central Co-op., St. Marys (D) | 26.30 | ---- | ---- | ---- | ---- |
| Average Analysis | 26.15 | ---- | ---- | ---- | ---- |
| Guaranteed Analysis | 26.00 | ---- | ---- | ---- | ---- |
| <u>U. S. P. Muriate of Potash 50%</u> | | | | | |
| M. F. A. Central Co-op., Dexter (D) | ---- | ---- | ---- | ---- | 51.52 |
| Guaranteed Analysis | ---- | ---- | ---- | ---- | 50.00 |
| <u>Sunshine State Muriate of Potash 50%</u> | | | | | |
| M. F. A. Central Co-op., Ste. Genevieve (D) | ---- | ---- | ---- | ---- | 52.16 |
| M. F. A. Central Co-op., St. Marys (D) | ---- | ---- | ---- | ---- | 50.68 |
| M. F. A. Central Co-op., Canton | ---- | ---- | ---- | ---- | 51.82 |
| Average Analysis | ---- | ---- | ---- | ---- | 51.55 |
| Guaranteed Analysis | ---- | ---- | ---- | ---- | 50.00 |
| <u>Sul-Po-Mag</u> | | | | | |
| M. F. A. Central Co-op., Keytesville (D) | ---- | ---- | ---- | ---- | 23.00 |
| Cole Camp Producers Exchange, Cole Camp. (D) | ---- | ---- | ---- | ---- | 22.05 |
| M. F. A. Central Co-op., Sedalia (D) | ---- | ---- | ---- | ---- | 22.27 |
| Emma Co-op. Elevator Co., Sweet Springs (D) | ---- | ---- | ---- | ---- | 21.82 |
| Average Analysis | ---- | ---- | ---- | ---- | 22.29 |
| Guaranteed Analysis | ---- | ---- | ---- | ---- | 21.00 |
| NA-CHURS PLANT FOOD CO., MARION, OHIO | | | | | |
| <u>Na-Churs Liquid Fertilizer 5-10-5</u> | | | | | |
| Ray Means Produce, Lamar (H) | 5.26 | ---- | 10.70 | .00 | 5.58 |
| Guaranteed Analysis | 5.00 | ---- | 10.00 | ---- | 5.00 |
| PEARSON-FERGUSON CHEMICAL CO., KANSAS CITY, MO. | | | | | |
| <u>Diamond Ammonium Sulphate 20.5%</u> | | | | | |
| M. F. A. Central Co-op., Moberly (A) (D) | 20.55 | ---- | ---- | ---- | ---- |
| Guaranteed Analysis | 20.50 | ---- | ---- | ---- | ---- |
| <u>Ammonsulfatsalpeter</u> | | | | | |
| Farmers Exchange, Macon (H) | 26.00 | ---- | ---- | ---- | ---- |
| M. F. A. Central Co-op., Warrensburg (H) | 26.10 | ---- | ---- | ---- | ---- |
| Average Analysis | 26.05 | ---- | ---- | ---- | ---- |
| Guaranteed Analysis | 26.00 | ---- | ---- | ---- | ---- |

(A) Not registered.

(D) Registration tags not attached.

(H) Sample drawn from less than five containers.
Deficiencies are underlined.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|---|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| <u>Muriate of Potash 60%</u> | | | | | |
| M. F. A. Cooperative Ass'n., Tipton (D) (F) | ---- | ---- | ---- | ---- | 60.48 |
| Guaranteed Analysis | ---- | ---- | ---- | ---- | 60.00 |
| <u>P-F Muriate of Potash 59.48%</u> | | | | | |
| Weston Mill & Elevator, Weston (D) | ---- | ---- | ---- | ---- | 59.18 |
| Guaranteed Analysis | ---- | ---- | ---- | ---- | 59.48 |
| PHILLIPS CHEMICAL CO., BARTLESVILLE, OKLA. | | | | | |
| <u>Phillips 66 Ammonium Sulphate</u> | | | | | |
| R. V. Hedrick, Buckner (D) | 20.90 | ---- | ---- | ---- | ---- |
| United Cooperative, Liberty (D) | 21.20 | ---- | ---- | ---- | ---- |
| Average Analysis | 21.05 | ---- | ---- | ---- | ---- |
| Guaranteed Analysis | 21.00 | ---- | ---- | ---- | ---- |
| <u>Phillips 66 Prilled Ammonium Nitrate 33%</u> | | | | | |
| Ray-Carroll County Grain Growers, Carrollton (D) | 34.05 | ---- | ---- | ---- | ---- |
| Guaranteed Analysis | 33.00 | ---- | ---- | ---- | ---- |
| PLANTABBS CORP., BALTIMORE, MD. | | | | | |
| <u>Fulton's Plantabbs 11-15-20</u> | | | | | |
| Sunny Hill Feed & Seed Store, Cape Girardeau (H) | 11.32 | ---- | 18.57 | .03 | 25.64 |
| Neosho Seed Co., Neosho (H) | 11.08 | ---- | 20.20 | .05 | 24.35 |
| Average Analysis | 11.20 | ---- | 19.39 | .04 | 25.00 |
| Guaranteed Analysis | 11.00 | ---- | 15.00 | ---- | 20.00 |
| RUHM PHOSPHATE & CHEMICAL CO., CHICAGO, ILL. | | | | | |
| <u>Red Seal Brand Ruhm's Phosphate Rock</u> | | | | | |
| Producers Grain Co., Centralia | ---- | 30.25 | 3.60 | 26.65 | ---- |
| Guaranteed Analysis | ---- | 30.00 | 3.00 | ---- | ---- |
| SAN FRANCISCO CHEMICAL CO., MONTPELIER, IDAHO | | | | | |
| <u>Western Natural Phosphate Rock</u> | | | | | |
| Farmers Produce Exchange, Lebanon | ---- | 31.62 | 1.42 | 30.20 | ---- |
| M. F. A. Central Co-op., Green City | ---- | 32.03 | 4.45 | 27.58 | ---- |
| Farmers Elevator Co., Salisbury (D) | ---- | 31.80 | 3.30 | 28.50 | ---- |
| M. F. A. Central Co-op., Stover (D) | ---- | 31.78 | 2.34 | 29.44 | ---- |
| M. F. A. Exchange, No. 84, Lincoln (D) | ---- | 30.43 | 2.08 | 28.35 | ---- |
| M. F. A. Central Co-op., Paris (D) | ---- | 31.45 | 2.23 | 29.22 | ---- |
| Average Analysis | ---- | 31.52 | 2.64 | 28.88 | ---- |
| Guaranteed Analysis | ---- | ---- | 3.00 | ---- | ---- |
| SCHROCK FERTILIZER SERVICE, CONGERVILLE, ILL. | | | | | |
| <u>Schrock Hi-Test Natural Phosphate</u> | | | | | |
| Maysville Produce, Maysville (D) | ---- | 34.15 | 3.50 | 30.65 | ---- |
| Guaranteed Analysis | ---- | ---- | 3.00 | ---- | ---- |

(D) Registration tags not attached.
(F) Labels partly wrong.

(H) Sample drawn from less than five containers.
Deficiencies are underlined.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|---|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| O. M. SCOTT & SONS CO., MARYSVILLE, OHIO | | | | | |
| <u>Scotts Turf Builder</u> | | | | | |
| Neosho Seed Store, Neosho (H) (D) | 10.74 | ---- | 9.25 | .21 | 4.20 |
| Guaranteed Analysis | 9.00 | ---- | 7.00 | ---- | 4.00 |
| SEARS-ROEBUCK & CO., CHICAGO, ILL. | | | | | |
| <u>Cross Country Plant Food 4-12-4</u> | | | | | |
| Sears, Roebuck Farm Store, Springfield (H) (D) . . | 4.19 | ---- | 10.12 | 3.61 | 4.03 |
| Guaranteed Analysis | 4.00 | ---- | 12.00 | ---- | 4.00 |
| <u>Cross Country Sheep Manure</u> | | | | | |
| Sears, Roebuck Farm Store, Springfield (H) (D) . . | 2.07 | ---- | .70 | .79 | 2.62 |
| Guaranteed Analysis | 1.50 | ---- | .75 | ---- | 2.00 |
| <u>Cross Country Peat Manure</u> | | | | | |
| Sears, Roebuck Farm Store, Springfield (H) (D) . . | 2.17 | ---- | 4.50 | .33 | 2.28 |
| Guaranteed Analysis | 2.00 | ---- | 1.00 | ---- | 1.00 |
| SEWERAGE COMM. of the CITY of MILWAUKEE, MILWAUKEE, WIS. | | | | | |
| <u>Milorganite</u> | | | | | |
| Schrimpf's Seed Store, Jefferson City | 5.89 | ---- | 2.41 | .45 | ---- |
| Weston Mill & Elevator, Weston (H) | <u>5.86</u> | ---- | 2.17 | .58 | ---- |
| Valley Park Co-op. Elevator Ass'n., Valley Park | <u>5.82</u> | ---- | 3.01 | .49 | ---- |
| Average Analysis | <u>5.86</u> | ---- | 2.53 | .51 | ---- |
| Guaranteed Analysis | 6.00 | ---- | 2.00 | ---- | ---- |
| SMITH-DOUGLASS CO., INC., STREATOR, ILL. | | | | | |
| <u>S-D Super Potash 0-10-30</u> | | | | | |
| Johnson Farm Supply, Taylor (D) | ---- | ---- | 9.97 | .33 | 29.98 |
| Guaranteed Analysis | ---- | ---- | 10.00 | ---- | 30.00 |
| <u>S-D Shur Shot 0-20-20</u> | | | | | |
| Johnson Farm Supply, Taylor (D) | ---- | ---- | 17.44 | .59 | 19.42 |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | 20.00 |
| SNYDER CHEMICAL CO., TOPEKA, KANSAS | | | | | |
| <u>Fervite 8-24-8</u> | | | | | |
| M. F. A. Central Co-op., Maysville | 9.09 | ---- | 23.73 | 1.52 | 4.73 |
| Guaranteed Analysis | 8.00 | ---- | 24.00 | ---- | 8.00 |
| SPENCER CHEMICAL CO., KANSAS CITY, MO. | | | | | |
| <u>Spencer's Ammonium Nitrate 33.5%</u> | | | | | |
| Osteen & Adams Feed & Seed Co., Portageville. . | 33.50 | ---- | ---- | ---- | ---- |
| Allen & Davis Gin Co., Sikeston | 33.62 | ---- | ---- | ---- | ---- |
| Farmers Exchange, West Plains. | 33.40 | ---- | ---- | ---- | ---- |
| Southwest Lime Co., Neosho | 34.02 | ---- | ---- | ---- | ---- |
| Whitaker's Feed & Seed Mill, Maryville. | 34.31 | ---- | ---- | ---- | ---- |
| Farmers Exchange, Stanberry | 33.92 | ---- | ---- | ---- | ---- |
| Black's Produce, Oregon. | 33.96 | ---- | ---- | ---- | ---- |
| Dallas County Farmers Exchange, Buffalo | 33.91 | ---- | ---- | ---- | ---- |

(D) Registration tags not attached.

Deficiencies are underlined.

(H) Sample drawn from less than five containers.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|---|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| (Spencer's Ammonium Nitrate 33.5% cont'd.) | | | | | |
| Bolivar Farmers Exchange, Bolivar | 34.15 | ---- | ---- | ---- | ---- |
| M. F. A. Central Co-op., Green City | 33.38 | ---- | ---- | ---- | ---- |
| M. F. A. Exchange, Unionville | 33.43 | ---- | ---- | ---- | ---- |
| M. F. A. Central Co-op., Moberly (D) | 33.68 | ---- | ---- | ---- | ---- |
| Northwest Mo. Feed Distributors, Chillicothe | 34.06 | ---- | ---- | ---- | ---- |
| Mercer County Farm Bureau Service Co., Princeton (D) | 34.08 | ---- | ---- | ---- | ---- |
| M. F. A. Cooperative Ass'n., California | 34.17 | ---- | ---- | ---- | ---- |
| Good News Feed Store, Knobnoster (D) | 34.22 | ---- | ---- | ---- | ---- |
| Old Mill Grain & Seed Co., Lee's Summit | 34.03 | ---- | ---- | ---- | ---- |
| United Cooperative, Liberty (D) | 34.38 | ---- | ---- | ---- | ---- |
| Ray-Carroll County Grain Growers, Richmond | 34.38 | ---- | ---- | ---- | ---- |
| Wise Brothers, Stephens (D) | 34.05 | ---- | ---- | ---- | ---- |
| Fayette Feed Store, Fayette | 34.36 | ---- | ---- | ---- | ---- |
| Eagle Mill & Elevator Co., Higginsville | 33.99 | ---- | ---- | ---- | ---- |
| Average Analysis | 33.95 | ---- | ---- | ---- | ---- |
| Guaranteed Analysis | 33.50 | ---- | ---- | ---- | ---- |
| STIMUPLANT LABORATORIES CO., COLUMBUS, OHIO | | | | | |
| <u>Stimuplant</u> | | | | | |
| Neosho Seed Co., Neosho (D) (H) | 11.22 | ---- | 17.35 | .03 | 24.38 |
| Guaranteed Analysis | 11.00 | ---- | 12.00 | ---- | 15.00 |
| SWIFT AND CO., NATIONAL STOCK YARDS, ILL. | | | | | |
| <u>Red Steer 0-20-20</u> | | | | | |
| Eggmann Feed & Produce Co., Cape Girardeau | ---- | ---- | 19.58 | .45 | 21.52 |
| Rolla Feed Mill, Rolla | ---- | ---- | 20.23 | .46 | 18.95 |
| Average Analysis | ---- | ---- | 19.91 | .46 | 20.24 |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | 20.00 |
| <u>Red Steer 2-12-6</u> | | | | | |
| Eggmann Feed & Produce Co., Cape Girardeau | 2.08 | ---- | 13.07 | .23 | 6.77 |
| Lackamp Feed & Fuel Store, Arcadia | 2.04 | ---- | 12.93 | .57 | 7.53 |
| Greenfield Milling Co., Greenfield | 1.82 | ---- | 12.79 | .51 | 6.22 |
| Ray Means Produce Co., Lamar | 2.07 | ---- | 12.13 | .42 | 5.94 |
| Farmington Milling Co., Farmington (D) | 2.01 | ---- | 11.77 | .23 | 6.29 |
| M. F. A. Exchange No. 84, Lincoln | 2.08 | ---- | 12.23 | .55 | 6.08 |
| Brumbaugh Feed Store, Taylor | 2.50 | ---- | 14.65 | .39 | 6.88 |
| Average Analysis | 2.09 | ---- | 12.80 | .41 | 6.53 |
| Guaranteed Analysis | 2.00 | ---- | 12.00 | ---- | 6.00 |
| <u>Red Steer 3-9-18</u> | | | | | |
| Bertram Boyles Feed Store, Doniphan | 3.36 | ---- | 10.17 | .38 | 16.10 |
| Rolla Feed Mill, Rolla | 3.03 | ---- | 9.49 | .29 | 17.88 |
| Farmers Home Mill, Owensville (D) | 3.16 | ---- | 9.56 | .79 | 15.19 |
| Average Analysis | 3.18 | ---- | 9.74 | .49 | 16.39 |
| Guaranteed Analysis | 3.00 | ---- | 9.00 | ---- | 18.00 |
| <u>Brimm 3-9-18</u> | | | | | |
| Unionville Produce, Unionville (D) | 2.97 | ---- | 9.96 | .37 | 16.24 |
| H. A. Schmelz Feed & Farm Supply, Fenton | 2.84 | ---- | 10.09 | .19 | 17.32 |
| Charley Stephens, High Hill (D) | 3.06 | ---- | 9.96 | .17 | 17.28 |
| Average Analysis | 2.96 | ---- | 10.00 | .24 | 16.95 |
| Guaranteed Analysis | 3.00 | ---- | 9.00 | ---- | 18.00 |
| <u>Red Steer 3-12-12</u> | | | | | |
| Greenfield Milling Co., Greenfield | 2.98 | ---- | 12.33 | .40 | 12.06 |

(D) Registration tags not attached.

Deficiencies are underlined.

(H) Sample drawn from less than five containers.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|---|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| (Red Steer 3-12-12 cont'd.) | | | | | |
| Farmington Milling Co., Farmington (D) | 2.90 | ---- | 12.47 | .16 | 11.88 |
| Brumbaugh Feed Store, Taylor. | 3.24 | ---- | 12.67 | .73 | 12.01 |
| John Magee, Eolia (D) | 3.08 | ---- | 12.06 | .54 | 11.11 |
| Farmers Elevator & Supply Co., Moscow Mills | 2.77 | ---- | 12.48 | .37 | 12.19 |
| Average Analysis. | 2.99 | ---- | 12.40 | .44 | 11.85 |
| Guaranteed Analysis | 3.00 | ---- | 12.00 | ---- | 12.00 |
| Blenn 3-12-12 | | | | | |
| Rolla Feed Mill, Rolla (D) | 2.91 | ---- | 12.32 | .31 | 12.00 |
| Greenfield Milling Co., Greenfield. | 3.15 | ---- | 12.77 | .48 | 12.10 |
| Ray Means Produce Co., Lamar | 2.78 | ---- | 11.89 | 1.16 | 11.49 |
| Unionville Produce, Unionville (D). | 2.69 | ---- | 12.07 | .28 | 12.28 |
| Independent Feed Co., Tina | 3.00 | ---- | 12.37 | .16 | 12.02 |
| Swift & Co., Dairy & Poultry Dept., Trenton | 3.11 | ---- | 12.66 | .57 | 11.93 |
| Northwest Mo. Feed Distributors, Chillicothe. | 2.98 | ---- | 12.02 | .56 | 12.14 |
| Owings Mill & Produce, Gallatin (D) | 3.11 | ---- | 11.84 | .81 | 12.16 |
| Brumbaugh Feed Store, Taylor (D). | 3.01 | ---- | 12.31 | .57 | 12.40 |
| Altrogge Truck Service, Mexico (D). | 2.78 | ---- | 12.14 | .31 | 11.26 |
| Farmers Co-op. Elevator Ass'n., O'Fallon (D) | 2.75 | ---- | 12.48 | .35 | 10.05 |
| Average Analysis. | 2.93 | ---- | 12.26 | .51 | 11.80 |
| Guaranteed Analysis | 3.00 | ---- | 12.00 | ---- | 12.00 |
| Red Steer 4-12-4 | | | | | |
| Lackamp Feed & Fuel Store, Arcadia | 3.60 | ---- | 11.99 | 1.02 | 5.63 |
| Kelso Elevator, Mt. Vernon (D) | 4.19 | ---- | 13.26 | .42 | 4.21 |
| Ray Means Produce Co., Lamar | 4.93 | ---- | 12.35 | .30 | 4.65 |
| Macon Elevator, Macon (D) | 3.70 | ---- | 12.32 | .18 | 4.90 |
| Unionville Produce, Unionville (D). | 3.63 | ---- | 12.29 | .44 | 4.50 |
| Independent Feed Co., Tina | 3.50 | ---- | 12.18 | .52 | 4.60 |
| Swift & Co., Dairy & Poultry Dept., Trenton | 4.08 | ---- | 12.64 | .29 | 4.72 |
| Owings Mill & Produce, Gallatin (D). | 3.48 | ---- | 12.02 | .55 | 4.39 |
| Farmington Milling Co., Farmington (D) | 3.91 | ---- | 13.15 | .23 | 4.35 |
| Farmers Home Mill, Owensville. | 3.84 | ---- | 13.08 | .37 | 4.43 |
| M. F. A. Exchange No. 84, Lincoln | 3.90 | ---- | 12.22 | .51 | 4.47 |
| T. R. Legg, Monticello (D) | 3.77 | ---- | 12.29 | .49 | 5.73 |
| Ewing Produce Co., Ewing (D) | 3.54 | ---- | 11.98 | .65 | 4.11 |
| Dowell & Fuqua Feed & Seed Store, New London(D) | 3.62 | ---- | 11.92 | .31 | 4.67 |
| Altrogge Truck Service, Mexico | 3.78 | ---- | 10.92 | .52 | 4.57 |
| John Magee, Eolia (D) | 3.64 | ---- | 11.63 | .65 | 4.43 |
| Farmers Co-op. Elevator Ass'n., O'Fallon (D) | 3.34 | ---- | 12.16 | .47 | 5.38 |
| Average Analysis. | 3.79 | ---- | 12.26 | .47 | 4.69 |
| Guaranteed Analysis | 4.00 | ---- | 12.00 | ---- | 4.00 |
| Vigoro 4-12-4 | | | | | |
| Sunnyhill Feed & Seed Store, Cape Girardeau (H) | 4.18 | ---- | 12.43 | .65 | 4.22 |
| Guaranteed Analysis | 4.00 | ---- | 12.00 | ---- | 4.00 |
| Vigoro 4-12-8 | | | | | |
| Weston Mill & Elevator, Weston | 4.13 | ---- | 12.44 | .41 | 8.42 |
| Guaranteed Analysis, | 4.00 | ---- | 12.00 | ---- | 8.00 |
| Red Steer 4-24-12 | | | | | |
| I. H. Schell & Son, Lutesville | 3.81 | ---- | 23.16 | .37 | 10.74 |
| Halbrook Produce Co., Salem | 4.12 | ---- | 23.90 | .40 | 11.82 |
| Boonville Mill & Grain Co., Boonville (D) | 3.93 | ---- | 23.74 | .56 | 12.10 |
| Average Analysis. | 3.95 | ---- | 23.60 | .44 | 11.55 |
| Guaranteed Analysis | 4.00 | ---- | 24.00 | ---- | 12.00 |
| Vigoro 6-10-4 | | | | | |
| Widman Hardware Co., Dixon (H) (D) | 5.96 | ---- | 10.73 | .52 | 4.69 |
| Rolla Feed Mill, Rolla | 6.02 | ---- | 10.45 | .45 | 4.16 |
| Cuba Roller Mill, Cuba. | 5.77 | ---- | 10.33 | .55 | 4.30 |
| Springfield Seed Co., Springfield. | 5.81 | ---- | 10.21 | .67 | 4.54 |
| Gingerich Produce, Green Top. | 5.75 | ---- | 11.45 | .40 | 4.79 |

(D) Registration tags not attached.

Deficiencies are underlined.

(H) Sample drawn from less than five containers.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|--|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| <u>(Vigoro 6-10-4 cont'd.)</u> | | | | | |
| Kincheloe's Store, Marceline (H) | 5.95 | ---- | 10.07 | 1.53 | 4.34 |
| St. Clair Feed Co., St. Clair (D) | 6.10 | ---- | 10.74 | .29 | 4.64 |
| H. A. Schmelz Feed & Supply, Fenton | 5.79 | ---- | 10.25 | .58 | 4.66 |
| Average Analysis | 5.89 | ---- | 10.53 | .62 | 4.52 |
| Guaranteed Analysis | 6.00 | ---- | 10.00 | ---- | 4.00 |
| <u>Vigoro 8-8-8</u> | | | | | |
| T. R. Legg, Monticello (D) | 7.83 | ---- | 8.56 | .14 | 8.42 |
| Farmers Co-op. Elevator Ass'n., O'Fallon (D) | 7.51 | ---- | 8.66 | .19 | 8.19 |
| Average Analysis | 7.67 | ---- | 8.61 | .17 | 8.31 |
| Guaranteed Analysis | 8.00 | ---- | 8.00 | ---- | 8.00 |
| <u>Red Steer 8-24-8</u> | | | | | |
| Rolla Feed Mill, Rolla | 7.21 | ---- | 21.81 | .48 | 8.06 |
| Cuba Roller Mill, Cuba | 5.86 | ---- | 19.66 | .45 | 9.50 |
| Armstrong & Jackson, Lowry City | 7.75 | ---- | 23.52 | .48 | 8.40 |
| Kelso Elevator, Mt. Vernon (D) | 5.93 | ---- | 21.13 | .40 | 10.46 |
| H. D. Moody Feed Store, Mound City (D) | 7.18 | ---- | 22.16 | .67 | 8.81 |
| Wise Brothers, Stephens | 7.59 | ---- | 24.15 | .40 | 8.65 |
| Average Analysis | 6.92 | ---- | 22.07 | .48 | 8.98 |
| Guaranteed Analysis | 8.00 | ---- | 24.00 | ---- | 8.00 |
| <u>Red Steer 10-20-0</u> | | | | | |
| H. D. Moody Feed Store, Mound City (D) | 9.83 | ---- | 20.82 | .63 | ---- |
| Guaranteed Analysis | 10.00 | ---- | 20.00 | ---- | ---- |
| TEMPLE COTTON OIL CO., LITTLE ROCK, ARK. | | | | | |
| <u>Quapaw 0-20-0</u> | | | | | |
| Jonesway Gin Co., Kennett (D) | ---- | ---- | 20.13 | .16 | ---- |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | ---- |
| THOMPSON-HAYWARD CHEMICAL CO., KANSAS CITY, MO. | | | | | |
| <u>Thom-Ward Rock Phosphate</u> | | | | | |
| Hoffman & Reed, Trenton | ---- | 30.75 | 3.75 | 27.00 | ---- |
| Guaranteed Analysis | ---- | ---- | None | ---- | ---- |
| THOMPSON SALES CO., MONTGOMERY, ALA. | | | | | |
| <u>Calphos</u> | | | | | |
| Farmers Elevator & Supply Co., Troy | ---- | 20.35 | 3.10 | 17.25 | ---- |
| Guaranteed Analysis | ---- | 18.00 | 2.00 | ---- | ---- |
| THOMSON PHOSPHATE CO., CHICAGO, ILL. | | | | | |
| <u>Four Leaf Powdered Rock Phosphate (30% T.P.A.)</u> | | | | | |
| Heade's Elevator, Crocker | ---- | 30.25 | 2.25 | 28.00 | ---- |
| Halbrook Produce Co., Salem | ---- | 29.64 | 2.24 | 27.40 | ---- |
| Bert Casey, Kirksville | ---- | 31.33 | 4.53 | 26.80 | ---- |
| Kenney & Sudholt Spraying Service, Shelbyville | ---- | 30.43 | 4.20 | 26.23 | ---- |
| Average Analysis | ---- | 30.41 | 3.31 | 27.11 | ---- |
| Guaranteed Analysis | ---- | ---- | 2.00 | 28.00 | ---- |
| <u>Four Leaf Powdered Rock Phosphate (31% T.P.A.)</u> | | | | | |
| Greenfield Milling Co., Greenfield | ---- | 31.50 | 3.90 | 27.60 | ---- |
| Guaranteed Analysis | ---- | ---- | None | ---- | ---- |

(D) Registration tags not attached.

Deficiencies are underlined.

(H) Sample drawn from less than five containers.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|--|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| THURSTON CHEMICAL CO., JOPLIN, MO. & LAWRENCE, KANSAS | | | | | |
| Bem Brand 0-20-0 | | | | | |
| Snodgrass Feed Store, Doniphan | ---- | ---- | 18.98 | .42 | ---- |
| Peoples Elevator Co., Rich Hill | ---- | ---- | 19.95 | 1.03 | ---- |
| Southwest Lime Co., Neosho | ---- | ---- | 20.12 | .68 | ---- |
| Weston Elevator Co., Weston | ---- | ---- | 19.73 | .82 | ---- |
| Crane Farmers Exchange, Crane | ---- | ---- | 20.45 | .80 | ---- |
| Perry County Farm Bureau Service Co., Perryville | ---- | ---- | 19.80 | 1.00 | ---- |
| Average Analysis | ---- | ---- | 19.84 | .79 | ---- |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | ---- |
| Bem Brand C. S. O. 20% Superphosphate | | | | | |
| Pease-Moore Milling Co., West Plains (D) | ---- | ---- | 20.42 | .46 | ---- |
| Tevebaugh Feed Store, Gainesville | ---- | ---- | 20.08 | 1.11 | ---- |
| Jenkins Feed Store, Hollister | ---- | ---- | 20.44 | .96 | ---- |
| Stafford Feed Co., Buffalo | ---- | ---- | 20.49 | .91 | ---- |
| Mercer County Farm Bureau Service Co., Princeton | ---- | ---- | 20.48 | 1.07 | ---- |
| Kearney Grain & Supply Co., Kearney | ---- | ---- | 20.42 | 1.03 | ---- |
| Farm Bureau Service Co., Mexico | ---- | ---- | 20.79 | .91 | ---- |
| Average Analysis | ---- | ---- | 20.45 | .92 | ---- |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | ---- |
| Bem Brand 0-12-12 | | | | | |
| Kelso Elevator, Mt. Vernon | ---- | ---- | 11.82 | .76 | 12.50 |
| Farmers Produce Exchange, Lebanon | ---- | ---- | 11.48 | .84 | 12.52 |
| Sheridan Grain Co., Sheridan | ---- | ---- | 12.12 | .82 | 11.93 |
| Burchfield Milling Co., Marshfield | ---- | ---- | 11.59 | .89 | 13.10 |
| Northern Feed Co., Springfield | ---- | ---- | 12.33 | .87 | 11.79 |
| Oliver Feed Store, Auxvasse | ---- | ---- | 11.93 | 1.00 | 11.77 |
| Average Analysis | ---- | ---- | 11.88 | .86 | 12.27 |
| Guaranteed Analysis | ---- | ---- | 12.00 | ---- | 12.00 |
| Bem Brand 0-14-7 | | | | | |
| Sheridan Grain Co., Sheridan | ---- | ---- | 13.64 | .72 | 7.66 |
| Guaranteed Analysis | ---- | ---- | 14.00 | ---- | 7.00 |
| Bem Brand 2-12-6 | | | | | |
| Cape Egg & Feed Co., Cape Girardeau | 1.99 | ---- | 11.97 | .93 | 6.70 |
| R. N. Allman, Winona | 1.92 | ---- | 12.07 | .90 | 6.17 |
| Stafford Feed Co., Buffalo | 2.02 | ---- | 11.08 | 1.81 | 6.34 |
| W. W. Henry Feed & Produce, Wheatland | 1.94 | ---- | 12.29 | 1.04 | 6.07 |
| Bethany Mill & Elevator, Bethany | 2.00 | ---- | 12.33 | .87 | 6.21 |
| Maness & Schmidt, Ste. Genevieve | 1.97 | ---- | 11.84 | 1.29 | 6.10 |
| Average Analysis | 1.97 | ---- | 11.93 | 1.14 | 6.27 |
| Guaranteed Analysis | 2.00 | ---- | 12.00 | ---- | 6.00 |
| Bem Brand 3-9-18 | | | | | |
| Southwest Lime Co., Neosho | 2.89 | ---- | 9.69 | .39 | 18.72 |
| Stafford Feed Co., Buffalo | 2.94 | ---- | 9.79 | .84 | 17.99 |
| Northern Feed Co., Springfield | 2.64 | ---- | 9.14 | .36 | 17.57 |
| Marion County Farm Bureau Service Co., Palmyra | 3.31 | ---- | 9.95 | .77 | 17.28 |
| Average Analysis | 2.95 | ---- | 9.64 | .59 | 17.89 |
| Guaranteed Analysis | 3.00 | ---- | 9.00 | ---- | 18.00 |
| Bem Brand 3-12-12 | | | | | |
| Cape Egg & Feed Co., Cape Girardeau | 2.87 | ---- | 12.63 | .79 | 12.13 |
| Snodgrass Feed Store, Doniphan | 2.85 | ---- | 12.31 | .62 | 12.32 |
| W. M. Moore & Son, Ellington | 2.80 | ---- | 11.82 | .79 | 11.88 |
| Peoples Elevator Co., Rich Hill | 2.90 | ---- | 12.66 | .79 | 12.23 |
| Southwest Lime Co., Neosho | 3.00 | ---- | 12.55 | 1.25 | 12.72 |
| Galena Canning Co., Galena | 3.00 | ---- | 11.81 | 1.17 | 11.98 |

(D) Registration tags not attached.

Deficiencies are underlined.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|--|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| (Bem Brand 3-12-12 cont'd.) | | | | | |
| Crane Farmers Exchange, Crane | 2.99 | ---- | 12.30 | 1.28 | 11.84 |
| Burchfield Milling Co., Marshfield | <u>2.94</u> | ---- | 11.87 | .88 | 12.29 |
| Perry County Farm Bureau Service Co., Perryville | 2.99 | ---- | <u>11.51</u> | 1.08 | 12.10 |
| A. C. Jones, Granger | 3.01 | ---- | <u>12.04</u> | 1.21 | 12.62 |
| Average Analysis | 2.94 | ---- | 12.15 | .99 | 12.21 |
| Guaranteed Analysis | 3.00 | ---- | 12.00 | ---- | 12.00 |
| Bem Brand 4-12-4 | | | | | |
| R. H. Allman, Winona | 3.96 | ---- | 12.05 | 1.20 | 4.24 |
| Farmers Co-op. Exchange, Cabool | 3.81 | ---- | 12.20 | 1.05 | 4.24 |
| Peoples Elevator, Rich Hill | <u>3.76</u> | ---- | 11.70 | .71 | 4.26 |
| Stafford Feed Co., Buffalo | <u>3.92</u> | ---- | <u>12.00</u> | 1.25 | 3.98 |
| W. W. Henry Feed & Produce, Wheatland | <u>3.98</u> | ---- | 12.08 | 1.70 | 4.28 |
| Quality Coal Co., Unionville | <u>3.90</u> | ---- | 12.16 | 1.17 | 4.15 |
| Owens Produce, Maysville | <u>3.79</u> | ---- | <u>11.74</u> | 1.41 | 4.04 |
| Mercer County Farm Bureau Service Co., Princeton | 3.80 | ---- | 11.69 | 1.28 | 4.09 |
| Rohrbach Produce Co., California | 3.74 | ---- | <u>12.14</u> | 1.11 | 4.33 |
| System Mills, Sedalia | <u>3.93</u> | ---- | 12.72 | 1.56 | 4.18 |
| Levasy Elevator, Levasy | <u>3.85</u> | ---- | 12.37 | 1.13 | 4.11 |
| Kearney Grain & Supply Co., Kearney | <u>3.66</u> | ---- | 12.72 | 1.58 | 4.40 |
| Hart-Bartlett-Sturtevant, Hardin | <u>3.96</u> | ---- | 12.20 | 1.20 | 4.22 |
| Farmers Exchange, Hardin | 4.29 | ---- | 11.91 | 1.24 | 4.34 |
| T. J. White, Eolia | 3.70 | ---- | 12.71 | .59 | 4.32 |
| Average Analysis | <u>3.87</u> | ---- | 12.16 | 1.21 | 4.21 |
| Guaranteed Analysis | 4.00 | ---- | 12.00 | ---- | 4.00 |
| Bem Brand 4-16-0 | | | | | |
| Sheridan Grain Co., Sheridan | 3.96 | ---- | 15.56 | 1.59 | ---- |
| Levasy Elevator, Levasy | <u>3.81</u> | ---- | 17.87 | 1.83 | ---- |
| Average Analysis | 3.89 | ---- | 16.72 | 1.71 | ---- |
| Guaranteed Analysis | 4.00 | ---- | 16.00 | ---- | ---- |
| Soil Doctor 4-24-12 | | | | | |
| Ranz Bros. Feed & Seed Co., Nevada | 4.55 | ---- | <u>23.15</u> | 1.23 | 12.66 |
| Sheridan Grain Co., Sheridan | <u>3.74</u> | ---- | 23.87 | .98 | 12.78 |
| Mercer County Farm Bureau Service Co., Princeton | 3.44 | ---- | 24.33 | .87 | 11.98 |
| M. F. A. Cooperative Ass'n., California | 4.70 | ---- | 24.45 | .85 | 12.83 |
| M. F. A. Exchange No. 84, Ionia | 4.44 | ---- | 24.33 | 1.07 | 12.57 |
| A. C. Jones, Granger | 4.36 | ---- | 24.57 | .93 | 11.23 |
| Average Analysis | 4.21 | ---- | 24.12 | .99 | <u>12.34</u> |
| Guaranteed Analysis | 4.00 | ---- | 24.00 | ---- | 12.00 |
| Bem Brand 5-10-5 | | | | | |
| Butler County Farm Bureau Service Co., Poplar Bluff | 4.88 | ---- | 9.69 | 1.22 | 5.08 |
| Square Deal Produce Co., Oscaloea (D) | <u>4.94</u> | ---- | <u>10.15</u> | 1.32 | 5.10 |
| Burchfield Milling Co., Marshfield | 4.95 | ---- | 10.39 | 1.34 | 4.97 |
| Quality Coal Co., Unionville | 4.74 | ---- | 10.32 | 1.28 | 5.05 |
| Maness & Schmidt, Ste. Genevieve | <u>4.69</u> | ---- | 10.62 | 1.03 | 5.34 |
| Average Analysis | <u>4.84</u> | ---- | 10.23 | 1.24 | 5.11 |
| Guaranteed Analysis | 5.00 | ---- | 10.00 | ---- | 5.00 |
| Bem Brand 5-10-10 | | | | | |
| Weston Elevator Co., Weston | 4.70 | ---- | 10.59 | .46 | 9.88 |
| Jenkins Feed Store, Hollister | <u>4.84</u> | ---- | 10.25 | .53 | 9.73 |
| Average Analysis | <u>4.77</u> | ---- | 10.42 | .50 | <u>9.81</u> |
| Guaranteed Analysis | 5.00 | ---- | 10.00 | ---- | 10.00 |
| Bem Brand 8-8-8 | | | | | |
| Stafford Feed Co., Buffalo | <u>7.62</u> | ---- | 8.64 | .56 | <u>7.72</u> |

(D) Registration tags not attached.

Deficiencies are underlined.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|---|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| <u>(Bem Brand 8-8-8 cont'd.)</u> | | | | | |
| Quality Coal Co., Unionville | 7.81 | ---- | 9.06 | .72 | 8.07 |
| Owens Produce, Maysville | 7.60 | ---- | 8.47 | .52 | 7.89 |
| Levasy Elevator, Levasy | 8.22 | ---- | 8.66 | .44 | 8.06 |
| A. C. Jones, Granger | 7.15 | ---- | 9.06 | .54 | 7.67 |
| Marion County Farm Bureau Service Co., Palmyra | 7.67 | ---- | 8.75 | .63 | 8.67 |
| Average Analysis | 7.68 | ---- | 8.77 | .57 | 8.01 |
| Guaranteed Analysis | 8.00 | ---- | 8.00 | ---- | 8.00 |
| <u>Bem Brand 8-24-8</u> | | | | | |
| Weston Elevator Co., Weston | 7.81 | ---- | 24.27 | 1.08 | 7.97 |
| La Monte Elevator, La Monte | 8.16 | ---- | 23.87 | 1.83 | 8.41 |
| Average Analysis | 7.99 | ---- | 24.07 | 1.46 | 8.19 |
| Guaranteed Analysis | 8.00 | ---- | 24.00 | ---- | 8.00 |
| <u>Soil Doctor 8-24-8</u> | | | | | |
| Clark Produce Co., Appleton City | 7.94 | ---- | 23.65 | 1.29 | 8.48 |
| Peterson Feed & Seed Co., Tarkio | 8.28 | ---- | 24.41 | .74 | 7.98 |
| M. F. A. Cooperative Ass-n., California | 7.16 | ---- | 24.26 | 1.89 | 8.13 |
| M. F. A. Exchange No. 84, Ionia | 8.20 | ---- | 24.38 | .97 | 8.10 |
| Fayette Co-op. Mill & Elevator Co., Fayette | 7.86 | ---- | 23.98 | .97 | 8.72 |
| Average Analysis | 7.89 | ---- | 24.14 | 1.17 | 8.28 |
| Guaranteed Analysis | 8.00 | ---- | 24.00 | ---- | 8.00 |
| <u>Soil Doctor 8-32-0</u> | | | | | |
| Beaty & Wagoner Feed & Seed Co., Clinton | 7.53 | ---- | 30.58 | 1.61 | ---- |
| Peterson Feed & Seed Co., Tarkio | 8.28 | ---- | 32.93 | 1.67 | ---- |
| Quality Coal Co., Unionville | 6.79 | ---- | 32.79 | 1.21 | ---- |
| Mercer County Farm Bureau Service Co., Princeton | 8.21 | ---- | 32.78 | 1.62 | ---- |
| Palmer's Feed & Produce, Pleasant Hill | 8.66 | ---- | 33.29 | 1.76 | ---- |
| Average Analysis | 7.89 | ---- | 32.47 | 1.57 | ---- |
| Guaranteed Analysis | 8.00 | ---- | 32.00 | ---- | ---- |
| <u>Bem Brand 10-20-0</u> | | | | | |
| Shultice Produce Co., Boonville | 10.44 | ---- | 20.83 | 1.52 | ---- |
| Guaranteed Analysis | 10.00 | ---- | 20.00 | ---- | ---- |
| <u>Soil Doctor 10-20-0</u> | | | | | |
| Clark Produce Co., Appleton City | 9.92 | ---- | 19.89 | 1.82 | ---- |
| Beaty & Wagoner Feed & Seed Co., Clinton | 10.12 | ---- | 19.90 | 1.35 | ---- |
| Dannen Elevator, Maryville | 9.92 | ---- | 20.51 | 1.04 | ---- |
| Weston Elevator Co., Weston | 9.92 | ---- | 20.30 | 1.30 | ---- |
| Rohrbach Produce Co., California | 10.04 | ---- | 20.14 | 1.66 | ---- |
| Average Analysis | 9.98 | ---- | 20.15 | 1.43 | ---- |
| Guaranteed Analysis | 10.00 | ---- | 20.00 | ---- | ---- |
| TRI-STATE CHEMICAL CO., WEBB CITY, MO. | | | | | |
| <u>Gro-Mor 0-12-12</u> | | | | | |
| Chapman & Follmer Supply Co., Avilla (D) | ---- | ---- | 12.51 | 1.77 | 12.56 |
| Hannah & Masterson, Lamar (D) | ---- | ---- | 12.45 | 2.03 | 10.75 |
| Average Analysis | ---- | ---- | 12.48 | 1.90 | 11.65 |
| Guaranteed Analysis | ---- | ---- | 12.00 | ---- | 12.00 |
| <u>Gro-Mor 0-20-20</u> | | | | | |
| Dallas County Farmers Exchange, Buffalo | ---- | ---- | 20.73 | .62 | 19.68 |
| Beacon Milling & Supply Co., Bolivar | ---- | ---- | 20.21 | .19 | 16.96 |
| Average Analysis | ---- | ---- | 20.47 | .41 | 16.32 |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | 20.00 |
| <u>Gro-Mor 2-12-6</u> | | | | | |
| Beacon Milling & Supply Co., Bolivar | 2.03 | ---- | 13.00 | .90 | 6.69 |

(D) Registration tags not attached.

Deficiencies are underlined.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|--|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| (Gro-Mor 2-12-6 cont'd.) | | | | | |
| Cameron Wilcock, Aurora | 2.22 | ---- | 12.27 | 1.53 | 6.42 |
| Cooper Supply Co., Sheldon (D) | 2.35 | ---- | 12.77 | 1.76 | 8.49 |
| Average Analysis | 2.20 | ---- | 12.68 | 1.40 | 7.20 |
| Guaranteed Analysis | 2.00 | ---- | 12.00 | ---- | 6.00 |
| Gro-Mor 3-12-12 | | | | | |
| Roy Webb Hardware, Jasper | 2.95 | ---- | 11.59 | 1.70 | 12.29 |
| Crane Farmers Exchange, Crane | 3.04 | ---- | 11.00 | 1.57 | 12.32 |
| Beacon Milling & Supply Co., Bolivar (D) | 3.20 | ---- | 11.26 | 2.07 | 12.37 |
| Embrey Grain Elevator, Fairview (D) | 3.05 | ---- | 11.67 | 1.97 | 12.82 |
| Allman Grain Co., Stark City (D) | 2.69 | ---- | 12.00 | 2.05 | 12.69 |
| Cameron Wilcock, Aurora (D) | 2.83 | ---- | 11.67 | 1.71 | 13.62 |
| Cooper Supply Co., Sheldon (D) | 3.18 | ---- | 11.69 | 2.10 | 13.32 |
| Average Analysis | 2.99 | ---- | 11.55 | 1.88 | 12.78 |
| Guaranteed Analysis | 3.00 | ---- | 12.00 | ---- | 12.00 |
| Gro-Mor 4-12-4 | | | | | |
| Kumpf Brothers, Climax Springs | 3.67 | ---- | 11.19 | 2.44 | 4.94 |
| Roy Webb Hardware, Jasper | 3.27 | ---- | 11.65 | 2.20 | 4.73 |
| Netzer Sales Co., Billings | 3.89 | ---- | 11.07 | 1.26 | 5.22 |
| Beacon Milling & Supply Co., Bolivar | 4.08 | ---- | 13.39 | .69 | 4.80 |
| Average Analysis | 3.73 | ---- | 11.83 | 1.65 | 4.92 |
| Guaranteed Analysis | 4.00 | ---- | 12.00 | ---- | 4.00 |
| Gro-Mor 4-16-0 | | | | | |
| Beacon Milling & Supply Co., Bolivar | 3.77 | ---- | 14.88 | 1.80 | ---- |
| Guaranteed Analysis | 4.00 | ---- | 16.00 | ---- | ---- |
| Gro-Mor 5-10-5 | | | | | |
| Crane Farmers Exchange, Crane (F) | 4.47 | ---- | 10.09 | 1.56 | 5.23 |
| Guaranteed Analysis | 5.00 | ---- | 10.00 | ---- | 5.00 |
| Gro-Mor 8-24-8 | | | | | |
| Ed Maze, Dadeville (D) | 7.73 | ---- | 21.16 | 1.21 | 9.65 |
| Guaranteed Analysis | 8.00 | ---- | 24.00 | ---- | 8.00 |
| Gro-Mor 21-0-0 | | | | | |
| Beacon Milling & Supply Co., Bolivar (D) | 19.74 | ---- | ---- | ---- | ---- |
| Guaranteed Analysis | 21.00 | ---- | ---- | ---- | ---- |
| Gro-Mor 0-0-60 | | | | | |
| Roy Webb Hardware, Jasper (D) | ---- | ---- | ---- | ---- | 60.56 |
| Dallas County Farmers Exchange, Buffalo (D) | ---- | ---- | ---- | ---- | 61.56 |
| Bolivar Farmers Exchange, Bolivar (D) | ---- | ---- | ---- | ---- | 60.74 |
| Average Analysis | ---- | ---- | ---- | ---- | 60.95 |
| Guaranteed Analysis | ---- | ---- | ---- | ---- | 60.00 |
| U. S. PHOSPHORIC PRODUCTS, DIVISION OF TENNESSEE CORP., TAMPA, FLA. | | | | | |
| Florida Triple Phosphate 46% | | | | | |
| Whitakers Feed & Seed Mill, Maryville | ---- | ---- | 45.75 | .45 | ---- |
| Burns Feed Store, Savannah | ---- | ---- | 45.58 | .77 | ---- |
| H. D. Moody Feed Store, Mound City | ---- | ---- | 45.97 | .53 | ---- |
| Fiddick's Feed & Fuel, Cameron | ---- | ---- | 46.02 | .73 | ---- |
| Average Analysis | ---- | ---- | 45.83 | .62 | ---- |
| Guaranteed Analysis | ---- | ---- | 46.00 | ---- | ---- |
| VIRGINIA-CAROLINA CHEMICAL CORP., EAST ST. LOUIS, ILL. | | | | | |
| V-C 20% Superphosphate | | | | | |
| Madison County Farmer's Warehouse Ass'n., Fredericktown | ---- | ---- | 19.76 | .94 | ---- |

(D) Registration tags not attached.
(F) Labels partly wrong.

Deficiencies are underlined.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|---|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| <u>(V-C 20% Superphosphate cont'd.)</u> | | | | | |
| Kirgan's Elevator, St. James | ---- | ---- | 19.73 | 1.17 | ---- |
| Peoples Elevator Co., Rich Hill | ---- | ---- | 18.47 | 2.43 | ---- |
| Allredge Feed & Seed Co., Stanberry | ---- | ---- | 20.03 | .97 | ---- |
| A. M. Rieffer & Son, Caledonia | ---- | ---- | 19.92 | .63 | ---- |
| Average Analysis | ---- | ---- | 19.58 | 1.23 | ---- |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | ---- |
| <u>V-C 45% Superphosphate</u> | | | | | |
| Roberts Supply Co., Iberia | ---- | ---- | 44.75 | .84 | ---- |
| Maneval Grain & Supply Co., Jasper | ---- | ---- | 45.69 | .96 | ---- |
| Average Analysis | ---- | ---- | 45.22 | .90 | ---- |
| Guaranteed Analysis | ---- | ---- | 45.00 | ---- | ---- |
| <u>V-C 46% Superphosphate</u> | | | | | |
| Bolivar Farmers Exchange, Bolivar | ---- | ---- | 45.39 | 1.26 | ---- |
| Guaranteed Analysis | ---- | ---- | 46.00 | ---- | ---- |
| <u>V-C 47% Superphosphate</u> | | | | | |
| Farmers Exchange, Mt. Vernon | ---- | ---- | 46.36 | .87 | ---- |
| Guaranteed Analysis | ---- | ---- | 47.00 | ---- | ---- |
| <u>V-C 0-12-12</u> | | | | | |
| Heade's Elevator, Crocker | ---- | ---- | 12.85 | .70 | 13.04 |
| Producers Exchange, Marshfield (D) | ---- | ---- | 13.04 | .66 | 12.53 |
| Bolivar Farmers Exchange, Bolivar (D) | ---- | ---- | 12.51 | .84 | 12.36 |
| Average Analysis | ---- | ---- | 12.80 | .73 | 12.64 |
| Guaranteed Analysis | ---- | ---- | 12.00 | ---- | 12.00 |
| <u>V-C 0-20-10</u> | | | | | |
| Cuba Roller Mill, Cuba | ---- | ---- | 18.93 | 1.55 | 11.74 |
| Maneval Grain & Supply Co., Jasper | ---- | ---- | 14.05 | 1.08 | 13.09 |
| M. F. A. Central Co-op., Ste. Genevieve | ---- | ---- | 17.76 | 1.17 | 10.14 |
| Fred M. Lange, Sedalia | ---- | ---- | 15.69 | .81 | 21.55 |
| Average Analysis | ---- | ---- | 16.61 | 1.15 | 14.13 |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | 10.00 |
| <u>V-C 0-20-20</u> | | | | | |
| Peoples Elevator, Rich Hill | ---- | ---- | 20.74 | .66 | 18.05 |
| Farmers Exchange, Mt. Vernon | ---- | ---- | 20.07 | .68 | 20.42 |
| Allredge Feed & Seed Co., Stanberry | ---- | ---- | 19.56 | .64 | 21.51 |
| Bolivar Farmers Exchange, Bolivar | ---- | ---- | 19.64 | .29 | 19.95 |
| Average Analysis | ---- | ---- | 20.00 | .57 | 19.98 |
| Guaranteed Analysis | ---- | ---- | 20.00 | ---- | 20.00 |
| <u>V-C 2-12-6</u> | | | | | |
| Madison County Farmers Warehouse Ass'n., | | | | | |
| Fredericktown | 2.16 | ---- | 11.91 | .94 | 6.38 |
| Edwards & Mitchell Store, Preston | 2.35 | ---- | 12.57 | .88 | 6.98 |
| M. F. A. Central Co-op., Ste. Genevieve | 2.35 | ---- | 13.90 | .73 | 7.98 |
| Paul's Feed Store, De Soto | 2.19 | ---- | 12.32 | .73 | 6.57 |
| Owensville Roller Mill, Owensville | 1.98 | ---- | 12.46 | .44 | 7.91 |
| Stover Milling Co., Stover | 2.34 | ---- | 12.22 | .86 | 6.47 |
| Versailles Feed & Produce, Versailles | 2.40 | ---- | 11.99 | .84 | 6.55 |
| Average Analysis | 2.25 | ---- | 12.48 | .77 | 6.98 |
| Guaranteed Analysis | 2.00 | ---- | 12.00 | ---- | 6.00 |
| <u>V-C Ammoniated Phospho Tobacco 2-12-6</u> | | | | | |
| Silex Grain Co., Silex | 2.12 | ---- | 12.46 | 1.24 | 7.66 |
| Guaranteed Analysis | 2.00 | ---- | 12.00 | ---- | 6.00 |
| <u>V-C 3-9-18</u> | | | | | |
| Kennett Grain & Seed Co., Kennett | 3.10 | ---- | 8.93 | .44 | 17.75 |
| Heade's Elevator, Crocker | 3.10 | ---- | 9.28 | .60 | 18.27 |
| Average Analysis | 3.10 | ---- | 9.11 | .52 | 18.01 |
| Guaranteed Analysis | 3.00 | ---- | 9.00 | ---- | 18.00 |

(D) Registration tags not attached.

Deficiencies are underlined.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|---|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| <u>V-C 3-9-27</u> | | | | | |
| Kennett Grain & Seed Co., Kennett | 3.19 | ---- | 10.28 | .56 | 27.90 |
| Heade's Elevator, Crocker | 3.16 | ---- | 9.23 | .77 | 25.16 |
| Average Analysis | 3.18 | ---- | 9.76 | .67 | <u>26.53</u> |
| Guaranteed Analysis | 3.00 | ---- | 9.00 | ---- | 27.00 |
| <u>V-C 3-12-12</u> | | | | | |
| Madison County Farmers Warehouse Assn., | | | | | |
| Fredericktown | 3.15 | ---- | 11.87 | .94 | 13.03 |
| Cuba Roller Mill, Cuba | 3.23 | ---- | 12.28 | 1.12 | 12.14 |
| Maneval Grain & Supply Co., Jasper | 3.22 | ---- | 11.57 | 1.25 | 12.17 |
| Producers Exchange, Marshfield | 3.04 | ---- | <u>11.70</u> | 1.59 | 12.96 |
| Bolivar Farmers Exchange, Bolivar | 3.28 | ---- | <u>12.10</u> | 2.48 | 14.29 |
| Huntsville Flour & Feed Co., Huntsville | 3.02 | ---- | 12.21 | 1.19 | 12.43 |
| Bethany Mill & Elevator, Bethany | 3.24 | ---- | 12.31 | 1.47 | 12.09 |
| A. M. Rieffer & Son, Caledonia | 4.13 | ---- | 11.79 | .78 | 11.70 |
| Paul's Feed Store, De Soto | 3.29 | ---- | <u>12.19</u> | 1.04 | <u>13.29</u> |
| Parker & Gore, Laddonia | 3.13 | ---- | 13.46 | .82 | 12.48 |
| Average Analysis | 3.27 | ---- | 12.15 | 1.27 | 12.66 |
| Guaranteed Analysis | 3.00 | ---- | 12.00 | ---- | 12.00 |
| <u>V-C 4-12-4</u> | | | | | |
| Madison County Farmers Warehouse Ass'n., | | | | | |
| Fredericktown | 4.07 | ---- | 12.04 | 1.26 | 4.53 |
| Carl's Feed Store, Ironton | 4.10 | ---- | 12.03 | .90 | 4.21 |
| Kirgan's Elevator, St. James | 3.89 | ---- | 12.39 | 1.24 | 4.78 |
| Maneval Grain & Supply Co., Jasper | <u>4.03</u> | ---- | 12.67 | 1.33 | 4.48 |
| Aldredge Feed & Seed Co., Stanberry | 4.06 | ---- | 12.47 | 1.61 | 5.10 |
| Producers Exchange, Marshfield | 4.02 | ---- | 12.41 | 1.19 | 5.28 |
| Edwards & Mitchell Store, Preston | 3.86 | ---- | 12.65 | 1.15 | 6.28 |
| Huntsville Flour & Feed Co., Huntsville | <u>4.46</u> | ---- | 12.59 | 1.69 | 4.56 |
| Farmers Elevator, Salisbury | 4.00 | ---- | 12.10 | 1.23 | 4.22 |
| Tucker Feed Store, Cowgill | 3.84 | ---- | 12.84 | .79 | 4.77 |
| V. A. Laws & Sons, Perryville | <u>3.87</u> | ---- | 12.41 | .67 | 4.98 |
| Paul's Feed Store, De Soto | 4.25 | ---- | 13.41 | 1.72 | 5.20 |
| Owensville Roller Mill, Owensville | 4.60 | ---- | 12.90 | 1.48 | 4.52 |
| Stover Milling Co., Stover | 4.10 | ---- | 13.12 | 1.16 | 4.73 |
| Fred M. Lange, Sedalia | 4.23 | ---- | 13.69 | .84 | 4.89 |
| Pleasant Hill Elevator, Pleasant Hill | 4.25 | ---- | 12.48 | 1.75 | 6.51 |
| Hammacher's, Richmond | 4.04 | ---- | 12.77 | 1.36 | 4.34 |
| Dungan & May, Lentner | 4.01 | ---- | 12.38 | 1.25 | 4.48 |
| Average Analysis | 4.09 | ---- | 12.63 | 1.26 | 4.88 |
| Guaranteed Analysis | 4.00 | ---- | 12.00 | ---- | 4.00 |
| <u>V-C 4-24-12</u> | | | | | |
| Madison County Farmers Warehouse Ass'n., | | | | | |
| Fredericktown | 4.43 | ---- | <u>22.76</u> | 1.45 | 12.42 |
| Heade's Elevator, Crocker | 4.24 | ---- | <u>23.19</u> | 1.64 | 12.59 |
| Cuba Roller Mill, Cuba | 4.11 | ---- | 23.64 | .86 | 12.34 |
| Bolivar Farmers Exchange, Bolivar | 4.05 | ---- | 23.16 | 2.12 | 13.22 |
| Huntsville Flour & Feed Co., Huntsville | 4.15 | ---- | <u>22.48</u> | 1.77 | 12.20 |
| V. A. Laws & Sons, Perryville | 3.98 | ---- | <u>23.65</u> | 1.09 | 13.56 |
| Maness & Schmidt, Ste. Genevieve | 4.28 | ---- | 23.77 | 1.88 | 14.09 |
| Pleasant Hill Elevator, Pleasant Hill | 4.25 | ---- | 23.17 | 1.81 | 13.19 |
| Average Analysis | 4.19 | ---- | <u>23.23</u> | 1.58 | 12.95 |
| Guaranteed Analysis | 4.00 | ---- | 24.00 | ---- | 12.00 |
| <u>V-C 5-10-5</u> | | | | | |
| Huntsville Flour & Feed Co., Huntsville | 5.01 | ---- | 9.77 | .63 | 5.14 |
| La Monte Elevator, La Monte | 5.26 | ---- | <u>10.10</u> | .80 | 5.00 |
| Average Analysis | 5.14 | ---- | 9.94 | .72 | 5.07 |
| Guaranteed Analysis | 5.00 | ---- | 10.00 | ---- | 5.00 |

Deficiencies are underlined.

TABLE 4. FERTILIZER ANALYSES AND GUARANTEES; SPRING 1951 (Cont'd)

| MANUFACTURER BRANDS, and DEALER OR PURCHASER | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|---|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total % | Avail- able % | Insolu- ble % | |
| <u>V-C 8-8-8</u> | | | | | |
| Osteen & Adams Feed & Seed Co., Portageville. . . | 8.40 | ---- | 8.76 | .61 | 8.95 |
| Madison County Farmers Warehouse Ass'n., Fredericktown | 7.05 | ---- | 10.21 | .47 | 8.70 |
| Producers Grain Co., El Dorado Springs | 7.87 | ---- | 9.18 | .45 | 8.72 |
| Owensville Roller Mill, Owensville | 8.02 | ---- | 9.11 | .52 | 8.35 |
| Parker & Gore, Laddonia | 8.14 | ---- | 8.56 | .57 | 8.62 |
| Summers Elevator, Boonville | 8.18 | ---- | 8.71 | .32 | 8.64 |
| Average Analysis | 7.94 | ---- | 9.09 | .49 | 8.66 |
| Guaranteed Analysis | 8.00 | ---- | 8.00 | ---- | 8.00 |
| <u>V-C 8-24-8</u> | | | | | |
| Madison County Farmers Warehouse Ass'n., Fredericktown | 6.64 | ---- | 23.70 | .75 | 10.08 |
| Peoples Elevator Co., Rich Hill | 8.66 | ---- | 22.84 | .65 | 9.20 |
| Allredge Feed & Seed Co., Stanberry | 8.28 | ---- | 23.67 | .78 | 9.62 |
| Fiddick's Feed & Fuel, Cameron | 8.15 | ---- | 23.43 | .62 | 9.36 |
| Fred M. Lange, Sedalia | 8.62 | ---- | 24.13 | 1.32 | 7.48 |
| Shultice Produce Co., Boonville | 8.38 | ---- | 23.77 | .73 | 8.88 |
| Pleasant Hill Elevator, Pleasant Hill | 8.40 | ---- | 23.90 | 1.80 | 6.77 |
| Average Analysis | 8.16 | ---- | 23.63 | .95 | 8.77 |
| Guaranteed Analysis | 8.00 | ---- | 24.00 | ---- | 8.00 |
| <u>V-C 10-20-0</u> | | | | | |
| Farmers Exchange, Mt. Vernon | 6.52 | ---- | 15.71 | .71 | ---- |
| Black's Produce, Oregon | 9.89 | ---- | 19.79 | .86 | ---- |
| Average Analysis | 8.21 | ---- | 17.75 | .79 | ---- |
| Guaranteed Analysis | 10.00 | ---- | 20.00 | ---- | ---- |

Deficiencies are underlined.

TABLE 5. FERTILIZERS, WITH GUARANTEED ANALYSES, REGISTERED AND OFFERED FOR SALE IN MISSOURI, 1951

| MANUFACTURER AND BRAND NAMES | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|---|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total in Bone % | Avail- able % | Insolu- ble % | |
| AMERICAN AGRICULTURAL CHEMICAL CO., NATIONAL STOCK YARDS, ILL. | | | | | |
| AA Quality Phosphate Rock | ---- | ---- | 3.00 | 27.00 | ---- |
| 18% Normal Superphosphate 0-18-0 | ---- | ---- | 18.00 | ---- | ---- |
| AA Quality 0-12-12. | ---- | ---- | 12.00 | ---- | 12.00 |
| Agrico Phosphate & Potash 0-12-12. | ---- | ---- | 12.00 | ---- | 12.00 |
| AA Quality 0-14-7 | ---- | ---- | 14.00 | ---- | 7.00 |
| Agrico Phosphate & Potash 0-14-7 | ---- | ---- | 14.00 | ---- | 7.00 |
| Agrico Phosphate & Potash 0-20-20. | ---- | ---- | 20.00 | ---- | 20.00 |
| AA Quality 2-12-6 | 2.00 | ---- | 12.00 | ---- | 6.00 |
| Agrico for Grain 2-12-6 | 2.00 | ---- | 12.00 | ---- | 6.00 |
| AA Quality 2-14-8 | 2.00 | ---- | 14.00 | ---- | 8.00 |
| Agrico for Wheat 2-14-8 | 2.00 | ---- | 14.00 | ---- | 8.00 |
| Agrico for Corn 2-14-8 | 2.00 | ---- | 14.00 | ---- | 8.00 |
| AA Quality 3-9-18 | 3.00 | ---- | 9.00 | ---- | 18.00 |
| Agrico for Cotton 3-9-18. | 3.00 | ---- | 9.00 | ---- | 18.00 |
| Agrico for Wheat 3-9-18 | 3.00 | ---- | 9.00 | ---- | 18.00 |
| Agrico for Corn 3-9-18. | 3.00 | ---- | 9.00 | ---- | 18.00 |
| AA Quality 3-12-12. | 3.00 | ---- | 12.00 | ---- | 12.00 |
| Agrico for Midwest 3-12-12 | 3.00 | ---- | 12.00 | ---- | 12.00 |
| AA Quality 4-12-4 | 4.00 | ---- | 12.00 | ---- | 4.00 |
| Agrico for Cereals 4-12-4 | 4.00 | ---- | 12.00 | ---- | 4.00 |
| AA Quality 4-12-8 | 4.00 | ---- | 12.00 | ---- | 8.00 |
| Agrico for Truck 4-12-8 | 4.00 | ---- | 12.00 | ---- | 8.00 |
| Agrico for Tobacco 4-12-8. | 4.00 | ---- | 12.00 | ---- | 8.00 |
| AA Quality 4-24-12. | 4.00 | ---- | 24.00 | ---- | 12.00 |
| AA Quality 8-8-8. | 8.00 | ---- | 8.00 | ---- | 8.00 |
| Agrico for Top Dressing 8-8-8 | 8.00 | ---- | 8.00 | ---- | 8.00 |
| AMERICAN CYANAMID CO., NEW YORK, N. Y. | | | | | |
| Aero-Phos Florida Natural Phosphate. | ---- | ---- | 3.00 | ---- | ---- |
| 20% Aero Cyanamid, Granular | 20.00 | ---- | ---- | ---- | ---- |
| 20.6% Aero Cyanamid, Granular | 20.60 | ---- | ---- | ---- | ---- |
| Aero Cyanamid, Special Grade. | 21.00 | ---- | ---- | ---- | ---- |
| Aeroprylls Ammonium Nitrate Fertilizer | 33.50 | ---- | ---- | ---- | ---- |
| AMERICAN LIQUID FERTILIZER CO., INC., MARIETTA, OHIO | | | | | |
| Liqua-Vita Plant Food | 6.00 | ---- | 9.00 | ---- | 7.00 |
| Liqua-Vita Turf Special | 12.00 | ---- | 8.00 | ---- | 4.00 |
| ARK-MO PLANT FOOD CO., INC., WALNUT RIDGE, ARK. | | | | | |
| Ark Mo Fertilizer 0-20-0 | ---- | ---- | 20.00 | ---- | ---- |
| Ark Mo Superphosphate 45% | ---- | ---- | 45.00 | ---- | ---- |
| U. S. Phosphoric Products Triple Super 45% | ---- | ---- | 45.00 | ---- | ---- |
| U. S. Phosphoric Products Triple Super 46% | ---- | ---- | 46.00 | ---- | ---- |
| U. S. Phosphoric Products Triple Super 47% | ---- | ---- | 47.00 | ---- | ---- |
| U. S. Phosphoric Products Triple Super 48% | ---- | ---- | 48.00 | ---- | ---- |
| Ark Mo Fertilizer 0-10-20. | ---- | ---- | 10.00 | ---- | 20.00 |
| Ark Mo Fertilizer 0-14-7 | ---- | ---- | 14.00 | ---- | 7.00 |
| Ark Mo Fertilizer 0-20-10. | ---- | ---- | 20.00 | ---- | 10.00 |
| Ark Mo Fertilizer 0-20-20. | ---- | ---- | 20.00 | ---- | 20.00 |

TABLE 5. FERTILIZERS, WITH GUARANTEED ANALYSES, REGISTERED AND OFFERED FOR SALE IN MISSOURI, 1951 (Cont'd)

| MANUFACTURER AND BRAND NAMES | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|--|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total in Bone % | Avail- able % | Insolu- ble % | |
| Ark Mo Plant Food Co., Inc., (cont'd.) | | | | | |
| Ark Mo Fertilizer 2-12-6 | 2.00 | ---- | 12.00 | ---- | 6.00 |
| Ark Mo Fertilizer 3-9-18 | 3.00 | ---- | 9.00 | ---- | 18.00 |
| Ark Mo Fertilizer 3-9-27 | 3.00 | ---- | 9.00 | ---- | 27.00 |
| Ark Mo Fertilizer 3-12-12 | 3.00 | ---- | 12.00 | ---- | 12.00 |
| Ark Mo Fertilizer 4-12-4 | 4.00 | ---- | 12.00 | ---- | 4.00 |
| Ark Mo Fertilizer 5-10-5 | 5.00 | ---- | 10.00 | ---- | 5.00 |
| Ark Mo Fertilizer 6-8-12 | 6.00 | ---- | 8.00 | ---- | 12.00 |
| Ark Mo Fertilizer 8-8-8 | 8.00 | ---- | 8.00 | ---- | 8.00 |
| Ark Mo Fertilizer 8-24-8 | 8.00 | ---- | 24.00 | ---- | 8.00 |
| Ark Mo Fertilizer 10-6-4 | 10.00 | ---- | 6.00 | ---- | 4.00 |
| Ark Mo Fertilizer 10-20-10 | 10.00 | ---- | 20.00 | ---- | 10.00 |
| Ark Mo Fertilizer 12-12-12 | 12.00 | ---- | 12.00 | ---- | 12.00 |
| Barrett's Nitrate of Soda 16% | 16.00 | ---- | ---- | ---- | ---- |
| Chilean Nitrate of Soda 16% | 16.00 | ---- | ---- | ---- | ---- |
| Nitro Lime | 20.50 | ---- | ---- | ---- | ---- |
| Calcium Ammonium Nitrate | 20.50 | ---- | ---- | ---- | ---- |
| Lion Ammonium Sulphate 21% | 21.00 | ---- | ---- | ---- | ---- |
| Lion Ammonium Nitrate 33.5% | 33.50 | ---- | ---- | ---- | ---- |
| Spencer Ammonium Nitrate 33.5% | 33.50 | ---- | ---- | ---- | ---- |
| U. S. Potash Manure Salts 22% | ---- | ---- | ---- | ---- | 22.00 |
| U. S. Potash Manure Salts 23% | ---- | ---- | ---- | ---- | 23.00 |
| U. S. Potash Manure Salts 24% | ---- | ---- | ---- | ---- | 24.00 |
| U. S. Potash Manure Salts 25% | ---- | ---- | ---- | ---- | 25.00 |
| Sul-Po-Mag (MgO 18%) | ---- | ---- | ---- | ---- | 21.50 |
| U. S. Potash 50% | ---- | ---- | ---- | ---- | 50.00 |
| Ark Mo Potash 50% | ---- | ---- | ---- | ---- | 50.00 |
| Potash Co. of America 60% Potash | ---- | ---- | ---- | ---- | 60.00 |
| ARMOUR FERTILIZER WORKS, EAST ST. LOUIS, ILL. | | | | | |
| Armour's Big Crop 20% Superphosphate | ---- | ---- | 20.00 | ---- | ---- |
| Armour's Big Crop 45% Superphosphate, Granular | ---- | ---- | 45.00 | ---- | ---- |
| Armour's Big Crop 0-9-27 | ---- | ---- | 9.00 | ---- | 27.00 |
| Armour's Big Crop 0-12-12 | ---- | ---- | 12.00 | ---- | 12.00 |
| Armour's Big Crop 0-14-7 | ---- | ---- | 14.00 | ---- | 7.00 |
| Armour's Big Crop 0-20-10 | ---- | ---- | 20.00 | ---- | 10.00 |
| Armour's Big Crop 0-20-20 | ---- | ---- | 20.00 | ---- | 20.00 |
| Armour's Big Crop 2-12-6 | 2.00 | ---- | 12.00 | ---- | 6.00 |
| Armour's Big Crop 3-9-18 | 3.00 | ---- | 9.00 | ---- | 18.00 |
| Armour's Big Crop 3-9-27 | 3.00 | ---- | 9.00 | ---- | 27.00 |
| Armour's Big Crop 3-12-12 | 3.00 | ---- | 12.00 | ---- | 12.00 |
| Armour's Big Crop 3-18-9 | 3.00 | ---- | 18.00 | ---- | 9.00 |
| Armour's Big Crop 4-12-4 | 4.00 | ---- | 12.00 | ---- | 4.00 |
| Armour's Big Crop 4-16-16 | 4.00 | ---- | 16.00 | ---- | 16.00 |
| Armour's Big Crop 4-24-12 | 4.00 | ---- | 24.00 | ---- | 12.00 |
| Armour's Vertagreen 5-10-5 | 5.00 | ---- | 10.00 | ---- | 5.00 |
| Armour's Big Crop 5-10-10s | 5.00 | ---- | 10.00 | ---- | 10.00 |
| Armour's Vertagreen 6-12-12 | 6.00 | ---- | 12.00 | ---- | 12.00 |
| Armour's Big Crop 6-18-6 | 6.00 | ---- | 18.00 | ---- | 6.00 |
| Armour's Gold Bond 8-8-8 | 8.00 | ---- | 8.00 | ---- | 8.00 |
| Armour's Big Crop 8-8-8 | 8.00 | ---- | 8.00 | ---- | 8.00 |
| Armour's Big Crop 8-8-8s | 8.00 | ---- | 8.00 | ---- | 8.00 |
| Armour's Big Crop 8-24-8 | 8.00 | ---- | 24.00 | ---- | 8.00 |
| Armour's Big Crop 8-32-0 | 8.00 | ---- | 32.00 | ---- | ---- |
| Armour's Big Crop 10-6-4 | 10.00 | ---- | 6.00 | ---- | 4.00 |
| Armour's Vertagreen 10-8-6 | 10.00 | ---- | 8.00 | ---- | 6.00 |
| Armour's Big Crop 10-20-0 | 10.00 | ---- | 20.00 | ---- | ---- |

TABLE 5. FERTILIZERS, WITH GUARANTEED ANALYSES, REGISTERED AND OFFERED FOR SALE IN MISSOURI, 1951 (Cont'd)

| MANUFACTURER AND BRAND NAMES | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|--|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total in Bone % | Avail- able % | Insolu- ble % | |
| Armour Fertilizer Works, (cont'd.) | | | | | |
| Armour's Pulverized Sheep Manure | 1.50 | ---- | 1.00 | ---- | 2.00 |
| Armour's Steamed Bone Meal | 2.00 | 27.00 | ---- | ---- | ---- |
| Chilean Nitrate of Soda 16% | 16.00 | ---- | ---- | ---- | ---- |
| Armour's Sulphate of Ammonia | 21.00 | ---- | ---- | ---- | ---- |
| Aero Cyanamid 21% | 21.00 | ---- | ---- | ---- | ---- |
| Spencer Ammonium Nitrate 33.5% | 33.50 | ---- | ---- | ---- | ---- |
| DuPont "Nu Green" Fertilizer Compound | 44.00 | ---- | ---- | ---- | ---- |
| Armour's Muriate of Potash 50% | ---- | ---- | ---- | ---- | 50.00 |
| Potash Co. of America Muriate of Potash 50% | ---- | ---- | ---- | ---- | 50.00 |
| Armour's Muriate of Potash 60% | ---- | ---- | ---- | ---- | 60.00 |
| Potash Co. of America Muriate of Potash 60% | ---- | ---- | ---- | ---- | 60.00 |
| ASHCRAFT-WILKINSON CO., ATLANTA, GA. | | | | | |
| Calcium Ammonium Nitrate Fertilizer | 20.50 | ---- | ---- | ---- | ---- |
| ASSOCIATED COOPERATIVES, INC., SHEFFIELD, ALA. | | | | | |
| Concentrated 47% Superphosphate | ---- | ---- | 47.00 | ---- | ---- |
| Concentrated 48% Superphosphate | ---- | ---- | 48.00 | ---- | ---- |
| Concentrated 49% Superphosphate | ---- | ---- | 49.00 | ---- | ---- |
| Concentrated 50% Superphosphate | ---- | ---- | 50.00 | ---- | ---- |
| Nitro-Lime Fertilizer | 20.50 | ---- | ---- | ---- | ---- |
| Ammonium Nitrate Fertilizer | 33.00 | ---- | ---- | ---- | ---- |
| ATKINS & DURBROW, INC., NEW YORK, N. Y. | | | | | |
| Driconure | 2.00 | ---- | 1.00 | ---- | 1.00 |
| ATLAS CHEMICAL CO., SAN FRANCISCO, CALIF. | | | | | |
| Atlas Fertilizer Emulsion | 5.50 | ---- | 2.00 | ---- | 2.00 |
| BALFOUR, GUTHRIE & CO., INC., CHICAGO, ILL. | | | | | |
| Elephant Brand | 33.50 | ---- | ---- | ---- | ---- |
| BARRETT DIVISION, ALLIED CHEMICAL & DYE CORP., NEW YORK, N. Y. | | | | | |
| "Arcadian" The American Nitrate of Soda | 16.00 | ---- | ---- | ---- | ---- |
| A-N-L Brand Fertilizer Compound | 20.50 | ---- | ---- | ---- | ---- |
| Barrett Standard Nitrogen Solution 32 | 32.00 | ---- | ---- | ---- | ---- |
| BETTER HOMES BUREAU, NEWARK, N. Y. | | | | | |
| Gold Medal Plant Food 23-21-17 | 23.00 | ---- | 21.00 | ---- | 17.00 |

TABLE 5. FERTILIZERS, WITH GUARANTEED ANALYSES, REGISTERED AND OFFERED
FOR SALE IN MISSOURI, 1951 (Cont'd)

| MANUFACTURER AND BRAND NAMES | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|--|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total in Bone % | Avail- able % | Insolu- ble % | |
| BLYTHERVILLE FERTILIZER CORP., BLYTHERVILLE, ARK. | | | | | |
| BFC Superphosphate | ---- | ---- | 20.00 | ---- | ---- |
| BFC 0-9-27. | ---- | ---- | 9.00 | ---- | 27.00 |
| BFC 0-10-20 | ---- | ---- | 10.00 | ---- | 20.00 |
| BFC 0-12-12 | ---- | ---- | 12.00 | ---- | 12.00 |
| BFC 0-20-20 | ---- | ---- | 20.00 | ---- | 20.00 |
| BFC 3-9-18. | 3.00 | ---- | 9.00 | ---- | 18.00 |
| BFC 3-9-27. | 3.00 | ---- | 9.00 | ---- | 27.00 |
| BFC 3-12-12 | 3.00 | ---- | 12.00 | ---- | 12.00 |
| BFC 4-12-4. | 4.00 | ---- | 12.00 | ---- | 4.00 |
| BFC 5-10-5. | 5.00 | ---- | 10.00 | ---- | 5.00 |
| BFC 6-8-12. | 6.00 | ---- | 8.00 | ---- | 12.00 |
| BFC 6-9-27. | 6.00 | ---- | 9.00 | ---- | 27.00 |
| BFC 8-8-8 | 8.00 | ---- | 8.00 | ---- | 8.00 |
| BFC 10-6-4. | 10.00 | ---- | 6.00 | ---- | 4.00 |
| BFC 12-12-12. | 12.00 | ---- | 12.00 | ---- | 12.00 |
| BFC Granular Muriate of Potash | ---- | ---- | ---- | ---- | 50.00 |
| CALIFORNIA SPRAY-CHEMICAL CORP., RICHMOND, CALIF. | | | | | |
| Ortho-Gro Liquid Plant Food | 10.00 | ---- | 5.00 | ---- | 5.00 |
| CENTRAL FARMERS FERTILIZER CO., CHICAGO, ILL. | | | | | |
| Concentrated Superphosphate 47% | ---- | ---- | 47.00 | ---- | ---- |
| Concentrated Superphosphate 48% | ---- | ---- | 48.00 | ---- | ---- |
| Concentrated Superphosphate 49% | ---- | ---- | 49.00 | ---- | ---- |
| Concentrated Superphosphate 50% | ---- | ---- | 50.00 | ---- | ---- |
| Concentrated Superphosphate 51% | ---- | ---- | 51.00 | ---- | ---- |
| Calcium Meta-phosphate 62% | ---- | ---- | 62.00 | ---- | ---- |
| Ammonium Nitrate 33% | 33.00 | ---- | ---- | ---- | ---- |
| CHILEAN NITRATE SALES CORP., NEW YORK, N. Y. | | | | | |
| Chilean Nitrate of Soda-Champion Brand | 16.00 | ---- | ---- | ---- | ---- |
| CLOVERSET FLOWER FARM, KANSAS CITY, MO. | | | | | |
| Cloverset Rose Grower | 5.00 | ---- | 10.00 | ---- | 5.00 |
| COLUMBIA PHOSPHATE CO., ST. LOUIS, MO. | | | | | |
| Columbia Ground Rock Phosphate | ---- | ---- | 3.00 | 28.00 | ---- |
| Ground Rock Phosphate, Davco Brand | ---- | ---- | 3.00 | 28.00 | ---- |
| CONSUMERS COOPERATIVE ASS'N., KANSAS CITY, MO. | | | | | |
| Co-op 0-20-0. | ---- | ---- | 20.00 | ---- | ---- |
| T. V. A. Concentrated Superphosphate 45% | ---- | ---- | 45.00 | ---- | ---- |
| T. V. A. Concentrated Superphosphate 46% | ---- | ---- | 46.00 | ---- | ---- |
| T. V. A. Concentrated Superphosphate 47% | ---- | ---- | 47.00 | ---- | ---- |

TABLE 5. FERTILIZERS, WITH GUARANTEED ANALYSES, REGISTERED AND OFFERED FOR SALE IN MISSOURI; 1951 (Cont'd)

| MANUFACTURER AND BRAND NAMES | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|--|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total in Bone % | Avail- able % | Insolu- ble % | |
| (Consumers Cooperative Ass'n., cont'd.) | | | | | |
| T. V. A. Concentrated Superphosphate 48% | ---- | ---- | 48.00 | ---- | ---- |
| T. V. A. Concentrated Superphosphate 49% | ---- | ---- | 49.00 | ---- | ---- |
| T. V. A. Concentrated Superphosphate 50% | ---- | ---- | 50.00 | ---- | ---- |
| Co-op 0-20-10 | ---- | ---- | 20.00 | ---- | 10.00 |
| Co-op 0-20-20 | ---- | ---- | 20.00 | ---- | 20.00 |
| Co-op 3-12-12 | 3.00 | ---- | 12.00 | ---- | 12.00 |
| Co-op 4-12-4 | 4.00 | ---- | 12.00 | ---- | 4.00 |
| Co-op 4-16-0 | 4.00 | ---- | 16.00 | ---- | ---- |
| Co-op 4-16-8 | 4.00 | ---- | 16.00 | ---- | 8.00 |
| Co-op 4-24-12 | 4.00 | ---- | 24.00 | ---- | 12.00 |
| Co-op 8-8-8 | 8.00 | ---- | 8.00 | ---- | 8.00 |
| Co-op 8-24-8 | 8.00 | ---- | 24.00 | ---- | 8.00 |
| Co-op 8-32-0 | 8.00 | ---- | 32.00 | ---- | ---- |
| Co-op 10-20-0 | 10.00 | ---- | 20.00 | ---- | ---- |
| T. V. A. Ammonium Nitrate 33% | 33.00 | ---- | ---- | ---- | ---- |
| Co-op 0-0-60 | ---- | ---- | ---- | ---- | 60.00 |
| Co-op 0-0-61 | ---- | ---- | ---- | ---- | 61.00 |
| DARLING & CO., CHICAGO & EAST ST. LOUIS, ILL. | | | | | |
| Darling's 20% Superphosphate | ---- | ---- | 20.00 | ---- | ---- |
| Darling's Nine Twenty-seven | ---- | ---- | 9.00 | ---- | 27.00 |
| Darling's Twelve Twelve | ---- | ---- | 12.00 | ---- | 12.00 |
| Darling's Twenty Ten | ---- | ---- | 20.00 | ---- | 10.00 |
| Darling's Twenty Twenty | ---- | ---- | 20.00 | ---- | 20.00 |
| Darling's Crop King | 2.00 | ---- | 12.00 | ---- | 6.00 |
| Darling's Big Potash | 3.00 | ---- | 9.00 | ---- | 18.00 |
| Darling's Sure Winner | 3.00 | ---- | 12.00 | ---- | 12.00 |
| Darling's Field Marshall | 4.00 | ---- | 12.00 | ---- | 4.00 |
| Darling's Harvest Queen | 4.00 | ---- | 12.00 | ---- | 8.00 |
| Darling's Four Sixteen Naught | 4.00 | ---- | 16.00 | ---- | ---- |
| Darling's Four Sixteen Sixteen | 4.00 | ---- | 16.00 | ---- | 16.00 |
| Darling's Four Twenty-four Twelve | 4.00 | ---- | 24.00 | ---- | 12.00 |
| Darling's Eight Eight Eight | 8.00 | ---- | 8.00 | ---- | 8.00 |
| Darling's Eight Twenty-four Eight | 8.00 | ---- | 24.00 | ---- | 8.00 |
| DAVISON CHEMICAL CORP., NASHVILLE, TENN. | | | | | |
| Davco Triple Superphosphate | ---- | ---- | 46.00 | ---- | ---- |
| Davco Red Diamond Fertilizer 0-12-12 | ---- | ---- | 12.00 | ---- | 12.00 |
| Davco Red Diamond Fertilizer 0-14-7 | ---- | ---- | 14.00 | ---- | 7.00 |
| Davco Red Diamond Fertilizer 0-20-20 | ---- | ---- | 20.00 | ---- | 20.00 |
| Davco Red Diamond Fertilizer 2-12-6 | 2.00 | ---- | 12.00 | ---- | 6.00 |
| Davco Red Diamond Fertilizer 3-12-12 | 3.00 | ---- | 12.00 | ---- | 12.00 |
| Davco Red Diamond Fertilizer 4-12-4 | 4.00 | ---- | 12.00 | ---- | 4.00 |
| Davco Red Diamond Fertilizer 4-16-0 | 4.00 | ---- | 16.00 | ---- | ---- |
| Davco Red Diamond Fertilizer 5-10-5 | 5.00 | ---- | 10.00 | ---- | 5.00 |
| Davco Red Diamond Fertilizer 6-12-12 | 6.00 | ---- | 12.00 | ---- | 12.00 |
| Davco Red Diamond Fertilizer 8-24-8 | 8.00 | ---- | 24.00 | ---- | 8.00 |
| Spencer Ammonium Nitrate | 33.50 | ---- | ---- | ---- | ---- |
| DAVISON CHEMICAL CORP., PERRY, IOWA | | | | | |
| Davco Granulated Superphosphate 20% | ---- | ---- | 20.00 | ---- | ---- |
| Davco 0-20-0 | ---- | ---- | 20.00 | ---- | ---- |

TABLE 5. FERTILIZERS, WITH GUARANTEED ANALYSES, REGISTERED AND OFFERED
FOR SALE IN MISSOURI, 1951 (Cont'd)

| MANUFACTURER AND BRAND NAMES | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|---|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total in Bone % | Avail- able % | Insolu- ble % | |
| (Davison Chemical Corp., cont'd.) | | | | | |
| Davco 0-20-20 | ---- | ---- | 20.00 | ---- | 20.00 |
| Davco 3-12-12 | 3.00 | ---- | 12.00 | ---- | 12.00 |
| Davco 3-18-9 | 3.00 | ---- | 18.00 | ---- | 9.00 |
| Davco 4-12-4 | 4.00 | ---- | 12.00 | ---- | 4.00 |
| Davco 4-12-8 | 4.00 | ---- | 12.00 | ---- | 8.00 |
| Davco 4-16-0 | 4.00 | ---- | 16.00 | ---- | ---- |
| Davco 4-24-12 | 4.00 | ---- | 24.00 | ---- | 12.00 |
| Davco 8-24-8 | 8.00 | ---- | 24.00 | ---- | 8.00 |
| Davco 8-32-0 | 8.00 | ---- | 32.00 | ---- | ---- |
| Davco 10-20-0 | 10.00 | ---- | 20.00 | ---- | ---- |
| Sulphate of Ammonia | 20.50 | ---- | ---- | ---- | ---- |
| Ammonium Sulphate Nitrate | 26.00 | ---- | ---- | ---- | ---- |
| E. I. DU PONT DE NEMOURS & CO., WILMINGTON, DEL. | | | | | |
| Du Pont Uramon Fertilizer Compound | 42.00 | ---- | ---- | ---- | ---- |
| Du Pont Nu Green Fertilizer Compound | 44.00 | ---- | ---- | ---- | ---- |
| EATON-MANN PHOSPHATE CO., JOLIET, ILL. | | | | | |
| Eaton-Mann Golden-Glo Phosphate | ---- | ---- | 3.00 | 27.00 | ---- |
| ECONOMY NURSERY CO., LITTLE SILVER, N. J. | | | | | |
| Balanced Rose Food | 5.00 | ---- | 8.00 | ---- | 3.00 |
| EXCELL LABORATORIES, INC., CHICAGO, ILL. | | | | | |
| New Plant Life | 2.00 | ---- | 1.00 | ---- | 2.00 |
| FAESY & BESTHOFF, INC., NEW YORK, N. Y. | | | | | |
| High Organic Pelletized All Purpose 6-12-6 | 6.00 | ---- | 12.00 | ---- | 6.00 |
| Rose Food 8-10-4 | 8.00 | ---- | 10.00 | ---- | 4.00 |
| Pure Bone Meal | 2.47 | 23.00 | ---- | ---- | ---- |
| Raw Bone Meal | 3.70 | 22.00 | ---- | ---- | ---- |
| FARM BELT FERTILIZER & CHEMICAL CO., KANSAS CITY, MO. | | | | | |
| Farm Belt Powdered Phosphate Rock | ---- | ---- | 3.00 | ---- | ---- |
| Farm Belt 0-20-0 | ---- | ---- | 20.00 | ---- | ---- |
| Farm Belt 0-37-0 | ---- | ---- | 37.00 | ---- | ---- |
| Farm Belt 0-46-0 | ---- | ---- | 46.00 | ---- | ---- |
| U. S. Phosphoric Products Triple Superphosphate | ---- | ---- | 46.00 | ---- | ---- |
| Farm Belt 0-20-10 | ---- | ---- | 20.00 | ---- | 10.00 |
| Farm Belt 0-20-20 | ---- | ---- | 20.00 | ---- | 20.00 |
| Farm Belt 2-12-6 | 2.00 | ---- | 12.00 | ---- | 6.00 |
| Farm Belt 3-12-12 | 3.00 | ---- | 12.00 | ---- | 12.00 |
| Minor-L 3-12-12 | 3.00 | ---- | 12.00 | ---- | 12.00 |
| Farm Belt 4-12-4 | 4.00 | ---- | 12.00 | ---- | 4.00 |
| Minor-L 4-12-4 | 4.00 | ---- | 12.00 | ---- | 4.00 |
| Farm Belt 4-16-0 | 4.00 | ---- | 16.00 | ---- | ---- |

TABLE 5. FERTILIZERS, WITH GUARANTEED ANALYSES, REGISTERED AND OFFERED FOR SALE IN MISSOURI, 1951 (Cont'd)

| MANUFACTURER AND BRAND NAMES | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|---|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total in Bone % | Avail- able % | Insolu- ble % | |
| (Farm Belt Fertilizer & Chemical Co., cont'd.) | | | | | |
| Farm Belt 4-24-12 | 4.00 | ---- | 24.00 | ---- | 12.00 |
| Farm Belt 5-10-5 | 5.00 | ---- | 10.00 | ---- | 5.00 |
| Farm Belt 5-10-10 | 5.00 | ---- | 10.00 | ---- | 10.00 |
| Minor-L 5-10-10 | 5.00 | ---- | 10.00 | ---- | 10.00 |
| Farm Belt 6-10-4 | 6.00 | ---- | 10.00 | ---- | 4.00 |
| Farm Belt 6-18-6 | 6.00 | ---- | 18.00 | ---- | 6.00 |
| Farm Belt 8-8-8 | 8.00 | ---- | 8.00 | ---- | 8.00 |
| Minor-L 8-8-8 | 8.00 | ---- | 8.00 | ---- | 8.00 |
| Farm Belt 8-24-8 | 8.00 | ---- | 24.00 | ---- | 8.00 |
| Minor-L 8-24-8 | 8.00 | ---- | 24.00 | ---- | 8.00 |
| Farm Belt 8-32-0 | 8.00 | ---- | 32.00 | ---- | ---- |
| Farm Belt 10-6-4 | 10.00 | ---- | 6.00 | ---- | 4.00 |
| Farm Belt 10-20-0 | 10.00 | ---- | 20.00 | ---- | ---- |
| Farm Belt 20.5-0-0 | 20.50 | ---- | ---- | ---- | ---- |
| U. S. Steel Sulphate of Ammonia | 20.50 | ---- | ---- | ---- | ---- |
| Lion Oil Sulphate of Ammonia | 20.50 | ---- | ---- | ---- | ---- |
| Farm Belt 33.5-0-0 | 33.50 | ---- | ---- | ---- | ---- |
| Spencer Ammonium Nitrate | 33.50 | ---- | ---- | ---- | ---- |
| Farm Belt 0-0-60 | ---- | ---- | ---- | ---- | 60.00 |
| FARM BUREAU SERVICE CO. OF MISSOURI, INC., JEFFERSON CITY, MO. | | | | | |
| Green Diamond Plant Food 0-20-20 | ---- | ---- | 20.00 | ---- | 20.00 |
| Green Diamond Plant Food 3-9-18 | 3.00 | ---- | 9.00 | ---- | 18.00 |
| Green Diamond Plant Food 3-12-12 | 3.00 | ---- | 12.00 | ---- | 12.00 |
| Green Diamond Plant Food 4-12-4 | 4.00 | ---- | 12.00 | ---- | 4.00 |
| Green Diamond Plant Food 4-16-16 | 4.00 | ---- | 16.00 | ---- | 16.00 |
| Green Diamond Plant Food 4-24-12 | 4.00 | ---- | 24.00 | ---- | 12.00 |
| Green Diamond Plant Food 5-15-10 | 5.00 | ---- | 15.00 | ---- | 10.00 |
| Green Diamond Plant Food 5-20-20 | 5.00 | ---- | 20.00 | ---- | 20.00 |
| Green Diamond Plant Food 8-8-8 | 8.00 | ---- | 8.00 | ---- | 8.00 |
| Green Diamond Plant Food 8-24-8 | 8.00 | ---- | 24.00 | ---- | 8.00 |
| Green Diamond Plant Food 10-10-10 | 10.00 | ---- | 10.00 | ---- | 10.00 |
| Green Diamond Plant Food 10-20-0 | 10.00 | ---- | 20.00 | ---- | ---- |
| Green Diamond Plant Food 0-0-60 | ---- | ---- | ---- | ---- | 60.00 |
| American Potash & Chemical Co. Muriate of Potash 0-0-60 | ---- | ---- | ---- | ---- | 60.00 |
| FARM FERTILIZERS, INC., OMAHA, NEBRASKA | | | | | |
| Bumpero Fertilizer 0-20-0 | ---- | ---- | 20.00 | ---- | ---- |
| Bumpero Fertilizer 2-12-6 | 2.00 | ---- | 12.00 | ---- | 6.00 |
| Bumpero Fertilizer 3-12-12 | 3.00 | ---- | 12.00 | ---- | 12.00 |
| Bumpero Fertilizer 4-16-0 | 4.00 | ---- | 16.00 | ---- | ---- |
| Bumpero Fertilizer 4-16-8 | 4.00 | ---- | 16.00 | ---- | 8.00 |
| Bumpero Fertilizer 8-16-0 | 8.00 | ---- | 16.00 | ---- | ---- |
| Bumpero Fertilizer 8-24-8 | 8.00 | ---- | 24.00 | ---- | 8.00 |
| Bumpero Fertilizer 8-32-0 | 8.00 | ---- | 32.00 | ---- | ---- |
| Bumpero Fertilizer 10-20-0 | 10.00 | ---- | 20.00 | ---- | ---- |
| FORD MOTOR CO., DEARBORN, MICHIGAN | | | | | |
| Ford Ammonium Sulphate | 20.80 | ---- | ---- | ---- | ---- |

TABLE 5. FERTILIZERS, WITH GUARANTEED ANALYSES, REGISTERED AND OFFERED
FOR SALE IN MISSOURI, 1951 (Cont'd)

| MANUFACTURER AND BRAND NAMES | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|---|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total in Bone % | Avail- able % | Insolu- ble % | |
| FOREIGN PRODUCTS CORP., NEW YORK, N. Y. | | | | | |
| Actumus Fertility Builder | 0.00 | ---- | 0.00 | ---- | 0.00 |
| FORT SMITH COTTON OIL CO., INC., FT. SMITH, ARK. | | | | | |
| Rais-Mor 3-9-18 | 3.00 | ---- | 9.00 | ---- | 18.00 |
| Rais-Mor 4-12-4 | 4.00 | ---- | 12.00 | ---- | 4.00 |
| Rais-Mor 5-10-5 | 5.00 | ---- | 10.00 | ---- | 5.00 |
| Rais-Mor 6-8-12 | 6.00 | ---- | 8.00 | ---- | 12.00 |
| Rais-Mor 8-8-8 | 8.00 | ---- | 8.00 | ---- | 8.00 |
| Rais-Mor 50% Potash | ---- | ---- | ---- | ---- | 50.00 |
| GAYLORD CHEMICAL CO., KANSAS CITY, MO. | | | | | |
| Sup-Ro | 6.00 | ---- | 6.00 | ---- | 6.00 |
| GARDEN PRODUCTS CO., ST. LOUIS, MO. | | | | | |
| Wondergreen Liquid Fertilizer | 6.00 | ---- | 12.00 | ---- | 6.00 |
| GOULARD & OLENA, INC., SKILLMAN, N. J. | | | | | |
| G & O Rhodo-Azalea Food | 3.00 | ---- | 20.00 | ---- | 3.00 |
| G & O Dahlia Food | 5.00 | ---- | 6.00 | ---- | 15.00 |
| G & O Rose Food | 7.00 | ---- | 8.00 | ---- | 5.00 |
| G & O Tree Food | 9.00 | ---- | 7.00 | ---- | 3.00 |
| G & O Lawn Fertilizer | 10.00 | ---- | 6.00 | ---- | 4.00 |
| G & O Ground Bone | 2.40 | 20.00 | ---- | ---- | ---- |
| Sulphate of Ammonia | 20.75 | ---- | ---- | ---- | ---- |
| GRO-CROP, INC., SUMMERDALE, ALA. | | | | | |
| Gro-Crop Liquid Fertilizer 5-10-5 | 5.00 | ---- | 10.00 | ---- | 5.00 |
| J. HARRIS MANURE CO., EAST ST. LOUIS, ILL. | | | | | |
| Hampton Park Dried Manure. | 2.00 | ---- | 1.00 | ---- | 2.00 |
| HARWICK CHEMICALS, BUTLER, MO. | | | | | |
| (Green Top) 10-20-0 | 10.00 | ---- | 20.00 | ---- | ---- |
| Ammonium Nitrate Fertilizer 32.5% | 32.50 | ---- | ---- | ---- | ---- |
| Cyanamid | 20.60 | ---- | ---- | ---- | ---- |
| A. H. HOFFMAN, INC., LANDISVILLE, PA. | | | | | |
| Hoffman Rose Food | 5.00 | ---- | 10.00 | ---- | 5.00 |
| Hoffman Sheep Manure | 1.50 | ---- | 1.00 | ---- | 2.00 |
| Hoffman Cow Manure | 2.00 | ---- | 1.00 | ---- | 1.00 |

TABLE 5. FERTILIZERS, WITH GUARANTEED ANALYSES, REGISTERED AND OFFERED FOR SALE IN MISSOURI; 1951 (Cont'd)

| MANUFACTURER AND BRAND NAMES | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|---|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total in Bone % | Avail- able % | Insolu- ble % | |
| (A. H. Hoffman, Inc., cont'd.) | | | | | |
| Hoffman Poultry Manure. | 3.00 | ---- | 1.00 | ---- | 1.50 |
| Hoffman Bone Meal | 3.70 | 20.00 | ---- | ---- | ---- |
| HOOVER SOIL SERVICE, GILMAN, ILL. | | | | | |
| Soft Phosphate With Colloidal Clay | ---- | ---- | 2.00 | ---- | ---- |
| HYDROPONIC CHEMICAL CO., INC., COPLEY, OHIO | | | | | |
| Hyponex Plant Food 7-6-19 | 7.00 | ---- | 6.00 | ---- | 19.00 |
| INTERSTATE FERTILIZER CO., CAIRO, ILL. | | | | | |
| Interstate Brand Superphosphate 20% | ---- | ---- | 20.00 | ---- | ---- |
| T. V. A. Triple Superphosphate 45% | ---- | ---- | 45.00 | ---- | ---- |
| T. V. A. Triple Superphosphate 46% | ---- | ---- | 46.00 | ---- | ---- |
| T. V. A. Triple Superphosphate 47% | ---- | ---- | 47.00 | ---- | ---- |
| T. V. A. Triple Superphosphate 48% | ---- | ---- | 48.00 | ---- | ---- |
| T. V. A. Triple Superphosphate 49% | ---- | ---- | 49.00 | ---- | ---- |
| T. V. A. Triple Superphosphate 50% | ---- | ---- | 50.00 | ---- | ---- |
| Metaphosphate 62% | ---- | ---- | 62.00 | ---- | ---- |
| Interstate Brand 0-12-12 | ---- | ---- | 12.00 | ---- | 12.00 |
| Interstate Brand 0-20-20 | ---- | ---- | 20.00 | ---- | 20.00 |
| Interstate Brand 3-9-6 | 3.00 | ---- | 9.00 | ---- | 6.00 |
| Interstate Brand 3-9-18 | 3.00 | ---- | 9.00 | ---- | 18.00 |
| Interstate Brand 3-9-27 | 3.00 | ---- | 9.00 | ---- | 27.00 |
| Interstate Brand 3-12-12 | 3.00 | ---- | 12.00 | ---- | 12.00 |
| Interstate Brand 4-12-4 | 4.00 | ---- | 12.00 | ---- | 4.00 |
| Interstate Brand 4-12-8 | 4.00 | ---- | 12.00 | ---- | 8.00 |
| Interstate Brand 5-10-10 s | 5.00 | ---- | 10.00 | ---- | 10.00 |
| Interstate Brand 5-10-20 | 5.00 | ---- | 10.00 | ---- | 20.00 |
| Interstate Brand 5-20-20 | 5.00 | ---- | 20.00 | ---- | 20.00 |
| Interstate Brand 6-8-6 | 6.00 | ---- | 8.00 | ---- | 6.00 |
| Interstate Brand 6-12-12 | 6.00 | ---- | 12.00 | ---- | 12.00 |
| Interstate Brand 8-8-8 | 8.00 | ---- | 8.00 | ---- | 8.00 |
| Arcadian Nitrate of Soda 16% | 16.00 | ---- | ---- | ---- | ---- |
| Champion Nitrate of Soda 16% | 16.00 | ---- | ---- | ---- | ---- |
| Interstate Brand Sulphate of Ammonia 20.5% | 20.50 | ---- | ---- | ---- | ---- |
| Calcium Ammonium Nitrate | 20.50 | ---- | ---- | ---- | ---- |
| T. V. A. Ammonium Nitrate 33% | 33.00 | ---- | ---- | ---- | ---- |
| Spencer Ammonium Nitrate | 33.50 | ---- | ---- | ---- | ---- |
| Interstate Brand Sul-Po-Mag 21.5% | ---- | ---- | ---- | ---- | 21.50 |
| Interstate Brand Manure Salts 23% | ---- | ---- | ---- | ---- | 23.00 |
| Interstate Brand Muriate of Potash 50% | ---- | ---- | ---- | ---- | 50.00 |
| Interstate Brand Muriate of Potash 60% | ---- | ---- | ---- | ---- | 60.00 |
| KANSAS CITY FERTILIZER CO., KANSAS CITY, MO. | | | | | |
| Archer Brand Sheep Manure | 2.00 | ---- | 1.00 | ---- | 2.00 |
| Archer Brand Cattle Manure | 2.00 | ---- | 1.00 | ---- | 1.00 |

TABLE 5. FERTILIZERS, WITH GUARANTEED ANALYSES, REGISTERED AND OFFERED FOR SALE IN MISSOURI, 1951 (Cont'd)

| MANUFACTURER AND BRAND NAMES | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|--|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total in Bone % | Avail- able % | Insolu- ble % | |
| LANGE BROTHERS, INC., ST. LOUIS, MO. | | | | | |
| Lange Brothers Rock Phosphate | ---- | ---- | 2.00 | ---- | ---- |
| Lange Brothers 0-20-0 | ---- | ---- | 20.00 | ---- | ---- |
| Lange Brothers 0-9-27 | ---- | ---- | 9.00 | ---- | 27.00 |
| Lange Brothers 0-12-12 | ---- | ---- | 12.00 | ---- | 12.00 |
| Lange Brothers 0-14-7 | ---- | ---- | 14.00 | ---- | 7.00 |
| Lange Brothers 0-20-10 | ---- | ---- | 20.00 | ---- | 10.00 |
| Lange Brothers 0-20-20 | ---- | ---- | 20.00 | ---- | 20.00 |
| Lange Brothers 2-12-6 | 2.00 | ---- | 12.00 | ---- | 6.00 |
| Lange Brothers 3-9-18 | 3.00 | ---- | 9.00 | ---- | 18.00 |
| Lange Brothers 3-9-27 | 3.00 | ---- | 9.00 | ---- | 27.00 |
| Lange Brothers 3-12-12 | 3.00 | ---- | 12.00 | ---- | 12.00 |
| Lange Brothers 4-12-4 | 4.00 | ---- | 12.00 | ---- | 4.00 |
| Lange Brothers 4-12-8 | 4.00 | ---- | 12.00 | ---- | 8.00 |
| Lange Brothers 4-16-0 | 4.00 | ---- | 16.00 | ---- | ---- |
| Lange Brothers 4-16-4 | 4.00 | ---- | 16.00 | ---- | 4.00 |
| Lange Brothers 4-24-12 | 4.00 | ---- | 24.00 | ---- | 12.00 |
| Lange Brothers 8-8-8 | 8.00 | ---- | 8.00 | ---- | 8.00 |
| Lange Brothers 8-24-8 | 8.00 | ---- | 24.00 | ---- | 8.00 |
| Lange Brothers 10-6-4 | 10.00 | ---- | 6.00 | ---- | 4.00 |
| Lange Brothers 10-20-0 | 10.00 | ---- | 20.00 | ---- | ---- |
| Lange Brothers Ammonium Sulphate | 20.60 | ---- | ---- | ---- | ---- |
| Lange Brothers Sul-Po-Mag | ---- | ---- | ---- | ---- | 22.00 |
| Lange Brothers 0-0-60 | ---- | ---- | ---- | ---- | 60.00 |
| LINCOLN SERVICE & SUPPLY, INC., GRAND ISLAND, NEBR. | | | | | |
| Lincoln 10-20-0 | 10.00 | ---- | 20.00 | ---- | ---- |
| LION OIL CO., EL DORADO, ARK. | | | | | |
| Lion Sulphate of Ammonia | 21.00 | ---- | ---- | ---- | ---- |
| Lion Ammonium Nitrate Fertilizer | 33.50 | ---- | ---- | ---- | ---- |
| Anhydrous Ammonia | 82.00 | ---- | ---- | ---- | ---- |
| MATHIESON CHEMICAL CORP., BALTIMORE, MD.; PASADENA, TEXAS; LITTLE ROCK, ARK. | | | | | |
| Mathieson 0-20-0 | ---- | ---- | 20.00 | ---- | ---- |
| Calcium Metaphosphate | ---- | ---- | 62.00 | ---- | ---- |
| Mathieson 0-10-20 | ---- | ---- | 10.00 | ---- | 20.00 |
| Mathieson 0-12-12 | ---- | ---- | 12.00 | ---- | 12.00 |
| Mathieson 0-14-7 | ---- | ---- | 14.00 | ---- | 7.00 |
| Mathieson 0-14-14 | ---- | ---- | 14.00 | ---- | 14.00 |
| Mathieson 2-12-6 | 2.00 | ---- | 12.00 | ---- | 6.00 |
| Mathieson 3-9-18 | 3.00 | ---- | 9.00 | ---- | 18.00 |
| Mathieson 3-9-27 | 3.00 | ---- | 9.00 | ---- | 27.00 |
| Mathieson 3-12-12 | 3.00 | ---- | 12.00 | ---- | 12.00 |
| Mathieson 4-12-4 | 4.00 | ---- | 12.00 | ---- | 4.00 |
| Mathieson 4-16-0 | 4.00 | ---- | 16.00 | ---- | ---- |
| Mathieson 5-10-5 | 5.00 | ---- | 10.00 | ---- | 5.00 |
| Mathieson 5-15-30 | 5.00 | ---- | 15.00 | ---- | 30.00 |
| Mathieson 6-8-12 | 6.00 | ---- | 8.00 | ---- | 12.00 |
| Mathieson 6-24-24 | 6.00 | ---- | 24.00 | ---- | 24.00 |

TABLE 5. FERTILIZERS, WITH GUARANTEED ANALYSES, REGISTERED AND OFFERED FOR SALE IN MISSOURI, 1951 (Cont'd)

| MANUFACTURER AND BRAND NAMES | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|---|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total in Bone % | Avail- able % | Insolu- ble % | |
| (Mathieson Chemical Corp., cont'd.) | | | | | |
| Mathieson 7-30-15 | 7.00 | ---- | 30.00 | ---- | 15.00 |
| Mathieson 8-8-8 | 8.00 | ---- | 8.00 | ---- | 8.00 |
| Mathieson 10-30-10 | 10.00 | ---- | 30.00 | ---- | 10.00 |
| Mathieson Pelletized 10-30-10 | 10.00 | ---- | 30.00 | ---- | 10.00 |
| Mathieson Ammo Phos 11-48-0 | 11.00 | ---- | 48.00 | ---- | ---- |
| Mathieson 12-12-12 | 12.00 | ---- | 12.00 | ---- | 12.00 |
| Mathieson Pelletized 12-12-12 | 12.00 | ---- | 12.00 | ---- | 12.00 |
| Mathieson 12-24-12 | 12.00 | ---- | 24.00 | ---- | 12.00 |
| Mathieson Pelletized 12-24-12 | 12.00 | ---- | 24.00 | ---- | 12.00 |
| Mathieson Ammo Phos 13-39-0 | 13.00 | ---- | 39.00 | ---- | ---- |
| Mathieson Ammo Phos 16-20-0 | 16.00 | ---- | 20.00 | ---- | ---- |
| Mathieson Nitrate of Soda | 16.00 | ---- | ---- | ---- | ---- |
| Mathieson 0-0-25 | ---- | ---- | ---- | ---- | 25.00 |
| Mathieson 0-0-50 | ---- | ---- | ---- | ---- | 50.00 |
| Mathieson 0-0-60 | ---- | ---- | ---- | ---- | 60.00 |
| EARL MAY SEED CO., SHENANDOAH, IA. | | | | | |
| Maytone | 6.00 | ---- | 10.00 | ---- | 4.00 |
| McCORMICK & CO., INC., BALTIMORE, MD. | | | | | |
| Hy-Gro | 13.00 | ---- | 26.00 | ---- | 13.00 |
| McKESSON & ROBBINS, INC., BURLINGTON, IOWA | | | | | |
| McK & R Florida Phosphate Rock | ---- | ---- | 3.00 | ---- | ---- |
| McK & R Powdered Phosphate Rock | ---- | ---- | 3.00 | 29.00 | ---- |
| MID-SOUTH CHEMICAL CO., INC., MEMPHIS, TENN. | | | | | |
| Commercial Grade Anhydrous Ammonia | 82.00 | ---- | ---- | ---- | ---- |
| MIDWEST PHOSPHATE CO., JOLIET, ILL. | | | | | |
| Midwest Quality Phosphate 30% T. P. A. | ---- | ---- | 2.00 | 28.00 | ---- |
| Midwest Quality Phosphate 32% T. P. A. | ---- | ---- | 2.00 | 30.00 | ---- |
| MISSOURI FARMERS ASS'N., INC., COLUMBIA, MO. | | | | | |
| M. F. A. Ground Rock Phosphate 2% A. P. A. | ---- | ---- | 2.00 | ---- | ---- |
| M. F. A. Ground Rock Phosphate 3% A. P. A. | ---- | ---- | 3.00 | ---- | ---- |
| M. F. A. 0-20-0 | ---- | ---- | 20.00 | ---- | ---- |
| M. F. A. Triple Superphosphate 45% | ---- | ---- | 45.00 | ---- | ---- |
| M. F. A. Triple Superphosphate 46% | ---- | ---- | 46.00 | ---- | ---- |
| M. F. A. Triple Superphosphate 47% | ---- | ---- | 47.00 | ---- | ---- |
| M. F. A. Triple Superphosphate 48% | ---- | ---- | 48.00 | ---- | ---- |
| M. F. A. Triple Superphosphate 49% | ---- | ---- | 49.00 | ---- | ---- |
| M. F. A. Triple Superphosphate 50% | ---- | ---- | 50.00 | ---- | ---- |
| M. F. A. Calcium Meta Phosphate 61% | ---- | ---- | 61.00 | ---- | ---- |
| M. F. A. Calcium Meta Phosphate 62% | ---- | ---- | 62.00 | ---- | ---- |
| M. F. A. Calcium Meta Phosphate 63% | ---- | ---- | 63.00 | ---- | ---- |

TABLE 5. FERTILIZERS, WITH GUARANTEED ANALYSES, REGISTERED AND OFFERED FOR SALE IN MISSOURI, 1951 (Cont'd)

| MANUFACTURER AND BRAND NAMES | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|---|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total in Bone % | Avail- able % | Insolu- ble % | |
| (Missouri Farmers Ass'n., Inc., cont'd.) | | | | | |
| M. F. A. Calcium Meta Phosphate 64% | ---- | ---- | 64.00 | ---- | ---- |
| M. F. A. 0-9-27 | ---- | ---- | 9.00 | ---- | 27.00 |
| M. F. A. 0-16-8 | ---- | ---- | 16.00 | ---- | 8.00 |
| M. F. A. 0-20-10 | ---- | ---- | 20.00 | ---- | 10.00 |
| M. F. A. 0-20-20 | ---- | ---- | 20.00 | ---- | 20.00 |
| M. F. A. 0-20-20 with Borax | ---- | ---- | 20.00 | ---- | 20.00 |
| M. F. A. 2-12-6 | 2.00 | ---- | 12.00 | ---- | 6.00 |
| M. F. A. 3-9-18 | 3.00 | ---- | 9.00 | ---- | 18.00 |
| M. F. A. 3-9-27 | 3.00 | ---- | 9.00 | ---- | 27.00 |
| M. F. A. 3-12-12 | 3.00 | ---- | 12.00 | ---- | 12.00 |
| M. F. A. 4-12-4 | 4.00 | ---- | 12.00 | ---- | 4.00 |
| M. F. A. 4-24-12 | 4.00 | ---- | 24.00 | ---- | 12.00 |
| M. F. A. Graden Grow | 5.00 | ---- | 10.00 | ---- | 5.00 |
| M. F. A. 8-8-8 | 8.00 | ---- | 8.00 | ---- | 8.00 |
| M. F. A. 8-24-8 | 8.00 | ---- | 24.00 | ---- | 8.00 |
| M. F. A. 10-10-10 | 10.00 | ---- | 10.00 | ---- | 10.00 |
| M. F. A. 10-20-0 | 10.00 | ---- | 20.00 | ---- | ---- |
| Ammonium Nitrate of Lime | 20.50 | ---- | ---- | ---- | ---- |
| Ammonium Sulphate Nitrate | 26.00 | ---- | ---- | ---- | ---- |
| Sul-Po-Mag | ---- | ---- | ---- | ---- | 22.00 |
| M. F. A. Manure Salts 22% | ---- | ---- | ---- | ---- | 22.00 |
| M. F. A. Manure Salts 23% | ---- | ---- | ---- | ---- | 23.00 |
| M. F. A. Manure Salts 24% | ---- | ---- | ---- | ---- | 24.00 |
| M. F. A. Manure Salts 25% | ---- | ---- | ---- | ---- | 25.00 |
| M. F. A. Manure Salts 26% | ---- | ---- | ---- | ---- | 26.00 |
| M. F. A. Manure Salts 27% | ---- | ---- | ---- | ---- | 27.00 |
| U. S. Potash Co. Muriate of Potash 50% | ---- | ---- | ---- | ---- | 50.00 |
| M. F. A. Muriate of Potash 58% | ---- | ---- | ---- | ---- | 58.00 |
| U. S. Potash Co. Muriate of Potash 58% | ---- | ---- | ---- | ---- | 58.00 |
| Potash Co. of America Muriate of Potash 58% | ---- | ---- | ---- | ---- | 58.00 |
| Bradley & Baker Muriate of Potash 58% | ---- | ---- | ---- | ---- | 58.00 |
| Int. Minerals & Chem. Co. Muriate of Potash 58% | ---- | ---- | ---- | ---- | 58.00 |
| M. F. A. Muriate of Potash 59% | ---- | ---- | ---- | ---- | 59.00 |
| U. S. Potash Co. Muriate of Potash 59% | ---- | ---- | ---- | ---- | 59.00 |
| Potash Co. of America Muriate of Potash 59% | ---- | ---- | ---- | ---- | 59.00 |
| Bradley & Baker Muriate of Potash 59% | ---- | ---- | ---- | ---- | 59.00 |
| Int. Minerals & Chem. Co. Muriate of Potash 59% | ---- | ---- | ---- | ---- | 59.00 |
| M. F. A. Muriate of Potash 60% | ---- | ---- | ---- | ---- | 60.00 |
| U. S. Potash Co. Muriate of Potash 60% | ---- | ---- | ---- | ---- | 60.00 |
| Potash Co. of America Muriate of Potash 60% | ---- | ---- | ---- | ---- | 60.00 |
| Bradley & Baker Muriate of Potash 60% | ---- | ---- | ---- | ---- | 60.00 |
| Int. Minerals & Chem. Co. Muriate of Potash 60% | ---- | ---- | ---- | ---- | 60.00 |
| M. F. A. Muriate of Potash 61% | ---- | ---- | ---- | ---- | 61.00 |
| U. S. Potash Co. Muriate of Potash 61% | ---- | ---- | ---- | ---- | 61.00 |
| Potash Co. of America Muriate of Potash 61% | ---- | ---- | ---- | ---- | 61.00 |
| Bradley & Baker Muriate of Potash 61% | ---- | ---- | ---- | ---- | 61.00 |
| Int. Mineral & Chem. Co. Muriate of Potash 61% | ---- | ---- | ---- | ---- | 61.00 |
| M. F. A. Muriate of Potash 62% | ---- | ---- | ---- | ---- | 62.00 |
| U. S. Potash Co. Muriate of Potash 62% | ---- | ---- | ---- | ---- | 62.00 |
| Potash Co. of America Muriate of Potash 62% | ---- | ---- | ---- | ---- | 62.00 |
| Bradley & Baker Muriate of Potash 62% | ---- | ---- | ---- | ---- | 62.00 |
| Int. Minerals & Chem. Co. Muriate of Potash 62% | ---- | ---- | ---- | ---- | 62.00 |
| MISSOURI PLANT FOOD CO., SIKESTON, MO. | | | | | |
| Mo Plant Food 0-20-0 | ---- | ---- | 20.00 | ---- | ---- |

TABLE 5. FERTILIZERS, WITH GUARANTEED ANALYSES, REGISTERED AND OFFERED FOR SALE IN MISSOURI, 1951 (Cont'd)

| MANUFACTURER AND BRAND NAMES | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|---|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total in Bone % | Avail- able % | Insolu- ble % | |
| (Missouri Plant Food Co., cont'd.) | | | | | |
| Mo Plant Food 0-45-0 | ---- | ---- | 45.00 | ---- | ---- |
| U. S. Phosphoric Products Triple Super 0-45-0 | ---- | ---- | 45.00 | ---- | ---- |
| Mo Plant Food 0-46-0 | ---- | ---- | 46.00 | ---- | ---- |
| U. S. Phosphoric Products Triple Super 0-46-0 | ---- | ---- | 46.00 | ---- | ---- |
| Mo Plant Food 0-47-0 | ---- | ---- | 47.00 | ---- | ---- |
| U. S. Phosphoric Products Triple Super 0-47-0 | ---- | ---- | 47.00 | ---- | ---- |
| Mo Plant Food 0-48-0 | ---- | ---- | 48.00 | ---- | ---- |
| U. S. Phosphoric Products Triple Super 0-48-0 | ---- | ---- | 48.00 | ---- | ---- |
| Mo Plant Food 0-9-27 | ---- | ---- | 9.00 | ---- | 27.00 |
| Mo Plant Food 0-10-20 | ---- | ---- | 10.00 | ---- | 20.00 |
| Mo Plant Food 0-12-12 | ---- | ---- | 12.00 | ---- | 12.00 |
| Mo Plant Food 0-14-7 | ---- | ---- | 14.00 | ---- | 7.00 |
| Mo Plant Food 0-20-10 | ---- | ---- | 20.00 | ---- | 10.00 |
| Mo Plant Food 0-20-20 | ---- | ---- | 20.00 | ---- | 20.00 |
| Mo Plant Food 2-12-6 | 2.00 | ---- | 12.00 | ---- | 6.00 |
| Mo Plant Food 3-9-18 | 3.00 | ---- | 9.00 | ---- | 18.00 |
| Mo Plant Food 3-9-27 | 3.00 | ---- | 9.00 | ---- | 27.00 |
| Mo Plant Food 3-12-12 | 3.00 | ---- | 12.00 | ---- | 12.00 |
| Mo Plant Food 4-12-4 | 4.00 | ---- | 12.00 | ---- | 4.00 |
| Mo Plant Food 4-12-8 | 4.00 | ---- | 12.00 | ---- | 8.00 |
| Mo Plant Food 4-16-0 | 4.00 | ---- | 16.00 | ---- | ---- |
| Mo Plant Food 4-16-16 | 4.00 | ---- | 16.00 | ---- | 16.00 |
| Mo Plant Food 4-24-12 | 4.00 | ---- | 24.00 | ---- | 12.00 |
| Mo Plant Food 5-10-5 | 5.00 | ---- | 10.00 | ---- | 5.00 |
| Mo Plant Food 5-15-30 | 5.00 | ---- | 15.00 | ---- | 30.00 |
| Mo Plant Food 6-8-12 | 6.00 | ---- | 8.00 | ---- | 12.00 |
| Mo Plant Food 6-9-18 | 6.00 | ---- | 9.00 | ---- | 18.00 |
| Mo Plant Food 6-9-27 | 6.00 | ---- | 9.00 | ---- | 27.00 |
| Mo Plant Food 6-24-0 | 6.00 | ---- | 24.00 | ---- | ---- |
| Mo Plant Food 8-8-8 | 8.00 | ---- | 8.00 | ---- | 8.00 |
| Mo Plant Food 8-24-8 | 8.00 | ---- | 24.00 | ---- | 8.00 |
| Mo Plant Food 8-32-0 | 8.00 | ---- | 32.00 | ---- | ---- |
| Mo Plant Food 10-6-4 | 10.00 | ---- | 6.00 | ---- | 4.00 |
| Mo Plant Food 10-20-0 | 10.00 | ---- | 20.00 | ---- | ---- |
| Mo Plant Food 10-20-10 | 10.00 | ---- | 20.00 | ---- | 10.00 |
| Mo Plant Food 12-12-12 | 12.00 | ---- | 12.00 | ---- | 12.00 |
| Barrett's Nitrate of Soda 16-0-0 | 16.00 | ---- | ---- | ---- | ---- |
| Chilean Nitrate of Soda 16-0-0 | 16.00 | ---- | ---- | ---- | ---- |
| Nitro Lime | 20.50 | ---- | ---- | ---- | ---- |
| Calcium Ammonium Nitrate | 20.50 | ---- | ---- | ---- | ---- |
| Lion Ammonium Sulphate 21-0-0 | 21.00 | ---- | ---- | ---- | ---- |
| Lion Ammonium Nitrate 33 1/2-0-0 | 33.50 | ---- | ---- | ---- | ---- |
| Spencer Ammonium Nitrate 33 1/2-0-0 | 33.50 | ---- | ---- | ---- | ---- |
| Sul-Po-Mag (Mgo 18%) | ---- | ---- | ---- | ---- | 21.50 |
| Mo Plant Food Potash 50% | ---- | ---- | ---- | ---- | 50.00 |
| U. S. Potash 50% | ---- | ---- | ---- | ---- | 50.00 |
| Mo Plant Food Potash 60% | ---- | ---- | ---- | ---- | 60.00 |
| Potash Co. of America, Muriate of Potash 60% | ---- | ---- | ---- | ---- | 60.00 |
| "NA-CHURS" PLANT FOOD CO., MARION, OHIO | | | | | |
| "Na-Churs" Liquid Fertilizer 5-10-5 | 5.00 | ---- | 10.00 | ---- | 5.00 |
| NATIONAL FERTILIZER CO., DES MOINES, IOWA | | | | | |
| Green Top Fertilizer 0-20-0 | ---- | ---- | 20.00 | ---- | ---- |

TABLE 5. FERTILIZERS, WITH GUARANTEED ANALYSES, REGISTERED AND OFFERED FOR SALE IN MISSOURI, 1951 (Cont'd)

| MANUFACTURER AND BRAND NAMES | Nitrogen % | Phosphoric Acid (P_2O_5) | | | Potash (K_2O) % |
|---|---------------|------------------------------|---------------------|---------------------|---------------------------|
| | | Total in Bone % | Avail- able % | Insolu- ble % | |
| (National Fertilizer Co., cont'd.) | | | | | |
| Green Top Fertilizer 0-46-0 | ---- | ---- | 46.00 | ---- | ---- |
| Green Top Fertilizer 0-9-27 | ---- | ---- | 9.00 | ---- | 27.00 |
| Green Top Fertilizer 3-12-12 | 3.00 | ---- | 12.00 | ---- | 12.00 |
| Green Top Fertilizer 4-16-0 | 4.00 | ---- | 16.00 | ---- | ---- |
| Green Top Fertilizer 4-16-8 | 4.00 | ---- | 16.00 | ---- | 8.00 |
| Green Top Fertilizer 4-24-12 | 4.00 | ---- | 24.00 | ---- | 12.00 |
| Green Top Fertilizer 5-20-20 | 5.00 | ---- | 20.00 | ---- | 20.00 |
| Green Top Fertilizer 6-24-0 | 6.00 | ---- | 24.00 | ---- | ---- |
| Green Top Fertilizer 8-16-8 | 8.00 | ---- | 16.00 | ---- | 8.00 |
| Green Top Fertilizer 10-20-0 | 10.00 | ---- | 20.00 | ---- | ---- |
| Green Top Fertilizer 0-0-50 | ---- | ---- | ---- | ---- | 50.00 |
| OWENS AGRICULTURAL PHOSPHATE CORP., CENTERVILLE, TENN. | | | | | |
| Ground Rock Phosphate | ---- | ---- | 2.00 | ---- | ---- |
| PEARSON-FERGUSON CHEMICAL CO., KANSAS CITY, MO. | | | | | |
| PF 2-12-6 | 2.00 | ---- | 12.00 | ---- | 6.00 |
| PF 4-12-4 | 4.00 | ---- | 12.00 | ---- | 4.00 |
| PF 4-16-4 | 4.00 | ---- | 16.00 | ---- | 4.00 |
| PF 8-8-8 | 8.00 | ---- | 8.00 | ---- | 8.00 |
| PF 10-6-4 | 10.00 | ---- | 6.00 | ---- | 4.00 |
| PF Fertilizer Bone Meal | 1.00 | 25.00 | ---- | ---- | ---- |
| PF Sulphate of Ammonia | 20.50 | ---- | ---- | ---- | ---- |
| Diamond Sulphate of Ammonia | 20.50 | ---- | ---- | ---- | ---- |
| PF Muriate of Potash | ---- | ---- | ---- | ---- | 60.00 |
| PHILLIPS CHEMICAL CO., BARTLESVILLE, OKLA. | | | | | |
| Phillips 66 Ammonium Sulfate | 21.00 | ---- | ---- | ---- | ---- |
| Phillips 66 Prilled Ammonium Nitrate | 33.00 | ---- | ---- | ---- | ---- |
| PIONEER PHOSPHATE CO., DES MOINES, IOWA | | | | | |
| Pioneer Brand 20.5% Sulphate of Ammonia | 20.50 | ---- | ---- | ---- | ---- |
| Calcium Ammonium Nitrate | 20.50 | ---- | ---- | ---- | ---- |
| PLANTABBS CORP., BALTIMORE, MD. | | | | | |
| Fultons Plantabbs 11-15-20 | 11.00 | ---- | 15.00 | ---- | 20.00 |
| PLANT-CHEM, INC., SAN FRANCISCO, CALIF. | | | | | |
| Plant-Chem Salts | 4.00 | ---- | 7.00 | ---- | 10.00 |
| Plant-Chem Salts for Acid Tolerant Plants | 9.00 | ---- | 14.00 | ---- | 2.00 |
| Plant-Chem Salts for Orchids | 10.00 | ---- | 14.00 | ---- | ---- |
| Lawn-Chem Salts | 14.00 | ---- | 9.00 | ---- | 7.00 |
| PULVERIZED MANURE CO., CHICAGO & EAST ST. LOUIS, ILL. | | | | | |
| Wizard Brand Pulverized Sheep Manure | 2.00 | ---- | 1.00 | ---- | 2.00 |
| Wizard Brand Cow Manure | 2.00 | ---- | 1.00 | ---- | 1.00 |

TABLE 5. FERTILIZERS, WITH GUARANTEED ANALYSES, REGISTERED AND OFFERED FOR SALE IN MISSOURI, 1951 (Cont'd)

| MANUFACTURER AND BRAND NAMES | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|---|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total in Bone % | Avail- able % | Insolu- ble % | |
| RA-PID-GRO CORP., DANSVILLE, N. Y. | | | | | |
| Ra-Pid-Gro. | 23.00 | ---- | 21.00 | ---- | 17.00 |
| C. M. REED & SON, CARTHAGE, MO. | | | | | |
| Kalosecta 4-12-4. | 4.00 | ---- | 12.00 | ---- | 4.00 |
| ROBIN JONES PHOSPHATE CO., NASHVILLE, TENN. | | | | | |
| Arrow Brand Phosphate (Tenn. Phos. Rock). | ---- | ---- | 2.00 | 28.00 | ---- |
| ROSE MANUFACTURING CO., BEACON, N. Y. | | | | | |
| Triogen Rose Food. | 5.00 | ---- | 10.00 | ---- | 5.00 |
| RUHM PHOSPHATE & CHEMICAL CO., CHICAGO, ILL. | | | | | |
| Red Seal Brand Ruhm's Phosphate Rock. | ---- | ---- | 3.00 | 27.00 | ---- |
| SAN FRANCISCO CHEMICAL CO., MONTPELIER, IDA. | | | | | |
| Western Brand Phosphate Rock 2% A.P.A. | ---- | ---- | 2.00 | 29.00 | ---- |
| Western Brand Phosphate Rock 3% A.P.A. | ---- | ---- | 3.00 | ---- | ---- |
| SARATOGA LABORATORIES, HOPE, N. J. | | | | | |
| Trace L. | 8.00 | ---- | 16.00 | ---- | 7.00 |
| SCHROCK FERTILIZER SERVICE, CONGERVILLE, ILL. | | | | | |
| Schrock Natural Phosphate 31% | ---- | ---- | 2.50 | 28.50 | ---- |
| Schrock Natural Phosphate 32% | ---- | ---- | 3.00 | 29.00 | ---- |
| Schrock Natural Phosphate 33% | ---- | ---- | 3.50 | 29.50 | ---- |
| Schrock Natural Phosphate 34% | ---- | ---- | 4.00 | 30.00 | ---- |
| Schrock Superphosphate | ---- | ---- | 20.00 | ---- | ---- |
| Calcium Ammonium Nitrate | 20.50 | ---- | ---- | ---- | ---- |
| Muriate of Potash | ---- | ---- | ---- | ---- | 60.00 |
| O. M. SCOTT & SONS CO., MARYSVILLE, OHIO | | | | | |
| Scotts Weed & Feed | 7.00 | ---- | 11.00 | ---- | 5.00 |
| Scotts Turf Builder. | 9.00 | ---- | 7.00 | ---- | 4.00 |
| SEARS ROEBUCK & CO., CHICAGO, ILL. | | | | | |
| Cross Country Plant Food 4-12-4 | 4.00 | ---- | 12.00 | ---- | 4.00 |
| Cross Country Bulb Food 4-12-8 | 4.00 | ---- | 12.00 | ---- | 8.00 |

TABLE 5. FERTILIZERS, WITH GUARANTEED ANALYSES, REGISTERED AND OFFERED FOR SALE IN MISSOURI, 1951 (Cont'd)

| MANUFACTURER AND BRAND NAMES | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|--|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total in Bone % | Avail- able % | Insolu- ble % | |
| (Sears Roebuck & Co., cont'd.) | | | | | |
| Cross Country Rose Food 5-10-5 | 5.00 | ---- | 10.00 | ---- | 5.00 |
| Cross Country Lawn Food & Weed Killer 5-10-5 | 5.00 | ---- | 10.00 | ---- | 5.00 |
| Cross Country Evergreen Food 8-6-4 | 8.00 | ---- | 6.00 | ---- | 4.00 |
| Cross Country Berry Food 10-6-4 | 10.00 | ---- | 6.00 | ---- | 4.00 |
| Cross Country Liquid Plant Food 10-5-5 | 10.00 | ---- | 5.00 | ---- | 5.00 |
| Cross Country Sulfate of Ammonia 20-0-0 | 20.00 | ---- | ---- | ---- | ---- |
| Cross Country Cattle Manure 1.5-.75-2 | 1.50 | ---- | .75 | ---- | 2.00 |
| Cross Country Sheep Manure 1.5-.75-2 | 1.50 | ---- | .75 | ---- | 2.00 |
| Cross Country Cattle Manure 1.5-1-2 | 1.50 | ---- | 1.00 | ---- | 2.00 |
| Cross Country Sheep Manure 1.5-1-2 | 1.50 | ---- | 1.00 | ---- | 2.00 |
| Cross Country Cattle Manure 1.75-.75-3 | 1.75 | ---- | .75 | ---- | 3.00 |
| Cross Country Sheep Manure 1.75-.75-3 | 1.75 | ---- | .75 | ---- | 3.00 |
| Cross Country Peat Manure 2-1-1 | 2.00 | ---- | 1.00 | ---- | 1.00 |
| Cross Country Bone Meal | 2.00 | 20.00 | ---- | ---- | ---- |
| SEWERAGE COMMISSION OF THE CITY OF MILWAUKEE, MILWAUKEE, WISC. | | | | | |
| Milorganite | 6.00 | ---- | 2.00 | .75 | ---- |
| SMITH-DOUGLASS CO., INC., STREATOR, ILL. | | | | | |
| S-D Superphosphate | ---- | ---- | 20.00 | ---- | ---- |
| S-D Hi Potash with Boron | ---- | ---- | 9.00 | ---- | 27.00 |
| S-D Super Potash | ---- | ---- | 10.00 | ---- | 30.00 |
| S-D Gro Grain | ---- | ---- | 20.00 | ---- | 10.00 |
| S-D Shur Shot | ---- | ---- | 20.00 | ---- | 20.00 |
| S-D Old Standby | 2.00 | ---- | 12.00 | ---- | 6.00 |
| S-D Heavy Weight | 3.00 | ---- | 9.00 | ---- | 18.00 |
| S-D Big Buy | 3.00 | ---- | 9.00 | ---- | 27.00 |
| S-D Corn Grower | 3.00 | ---- | 12.00 | ---- | 12.00 |
| S-D Big Yield | 3.00 | ---- | 18.00 | ---- | 9.00 |
| S-D Money Maker | 4.00 | ---- | 12.00 | ---- | 8.00 |
| S-D Commander | 4.00 | ---- | 16.00 | ---- | 8.00 |
| S-D Big Chief | 4.00 | ---- | 16.00 | ---- | 16.00 |
| S-D Vita Food | 6.00 | ---- | 24.00 | ---- | ---- |
| S-D Soil Saver | 10.00 | ---- | 10.00 | ---- | 10.00 |
| SNYDER CHEMICAL CO., TOPEKA, KANSAS | | | | | |
| Fervite 8-24-8 | 8.00 | ---- | 24.00 | ---- | 8.00 |
| Fervite 8-32-0 | 8.00 | ---- | 32.00 | ---- | ---- |
| Fervite 10-20-0 | 10.00 | ---- | 20.00 | ---- | ---- |
| SOIL BOOSTER CORP., OKLAHOMA CITY, OKLA. | | | | | |
| Soil Booster Organic Fertilizer | 6.00 | ---- | 2.00 | ---- | ---- |
| SOUTHERN COTTON OIL CO., MEMPHIS, TENN. | | | | | |
| Nitrate of Lime | 20.50 | ---- | ---- | ---- | ---- |
| Sulphate Ammonium Nitrate | 26.50 | ---- | ---- | ---- | ---- |

TABLE 5. FERTILIZERS, WITH GUARANTEED ANALYSES, REGISTERED AND OFFERED FOR SALE IN MISSOURI; 1951 (Cont'd)

| MANUFACTURER AND BRAND NAMES | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|---|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total in Bone % | Avail- able % | Insolu- ble % | |
| SOYLAID, INC., CORPUS CHRISTI, TEXAS | | | | | |
| Soylaid | | Secondary and Minor Elements Only. | | | |
| SPENCER CHEMICAL CO., KANSAS CITY, MO. | | | | | |
| Ammonium Nitrate Fertilizer | 33.50 | ---- | ---- | ---- | ---- |
| Anhydrous Ammonia, Commercial. | 82.00 | ---- | ---- | ---- | ---- |
| STARK BROTHERS NURSERIES & ORCHARDS CO., LOUISIANA, MO. | | | | | |
| Stark "Tre-Pep" | 22.75 | ---- | 24.00 | ---- | 12.00 |
| STIM-U- PLANT LABORATORIES CO., COLUMBUS, OHIO | | | | | |
| Stim-U-Plant Plant Food Tablets | 11.00 | ---- | 12.00 | ---- | 15.00 |
| STOCKDALE FERTILIZER CO., MORRIS, ILL. | | | | | |
| "Ovene" (Sheep Manure) | 1.00 | ---- | 1.00 | ---- | 1.00 |
| SWIFT & CO., PLANT FOOD DIVISION, NATIONAL STOCK YARDS, ILL. | | | | | |
| Swift's Pulverized Phosphate Rock | ---- | ---- | 3.00 | ---- | ---- |
| Red Steer 0-20-0 | ---- | ---- | 20.00 | ---- | ---- |
| Red Steer 0-45-0 | ---- | ---- | 45.00 | ---- | ---- |
| Red Steer 0-9-27 | ---- | ---- | 9.00 | ---- | 27.00 |
| Red Steer 0-20-20 | ---- | ---- | 20.00 | ---- | 20.00 |
| Red Steer 2-12-6 | 2.00 | ---- | 12.00 | ---- | 6.00 |
| Red Steer 3-9-18 | 3.00 | ---- | 9.00 | ---- | 18.00 |
| Brimm 3-9-18 | 3.00 | ---- | 9.00 | ---- | 18.00 |
| Red Steer 3-12-12 | 3.00 | ---- | 12.00 | ---- | 12.00 |
| Blenn 3-12-12 | 3.00 | ---- | 12.00 | ---- | 12.00 |
| Red Steer 4-12-4 | 4.00 | ---- | 12.00 | ---- | 4.00 |
| Vigoro Commercial Grower 4-12-8 | 4.00 | ---- | 12.00 | ---- | 8.00 |
| Red Steer 4-24-12 | 4.00 | ---- | 24.00 | ---- | 12.00 |
| Red Steer 5-10-5 | 5.00 | ---- | 10.00 | ---- | 5.00 |
| Blenn 6-8-6 | 6.00 | ---- | 8.00 | ---- | 6.00 |
| Brimm 6-8-8 | 6.00 | ---- | 8.00 | ---- | 8.00 |
| Vigoro Azalea & Camellia Special 6-8-8 | 6.00 | ---- | 8.00 | ---- | 8.00 |
| Vigoro 6-10-4 | 6.00 | ---- | 10.00 | ---- | 4.00 |
| Red Steer 8-8-8 | 8.00 | ---- | 8.00 | ---- | 8.00 |
| Red Steer Pasture Special 8-8-8 | 8.00 | ---- | 8.00 | ---- | 8.00 |
| Vigoro Commercial Grower 8-8-8 | 8.00 | ---- | 8.00 | ---- | 8.00 |
| Red Steer 8-24-8 | 8.00 | ---- | 24.00 | ---- | 8.00 |
| Red Steer 8-32-0 | 8.00 | ---- | 32.00 | ---- | ---- |
| Red Steer 10-20-0 | 10.00 | ---- | 20.00 | ---- | ---- |
| Bonro | 10.00 | ---- | 52.00 | ---- | 17.00 |
| Nitrate of Soda | 16.00 | ---- | ---- | ---- | ---- |
| Cyanamid | 21.00 | ---- | ---- | ---- | ---- |
| Ammonium Nitrate | 33.50 | ---- | ---- | ---- | ---- |
| Pulverized Sheep & Cattle Manure | 1.50 | ---- | 1.00 | ---- | 1.75 |
| Bone Meal | 2.00 | 20.00 | ---- | ---- | ---- |

TABLE 5. FERTILIZERS, WITH GUARANTEED ANALYSES, REGISTERED AND OFFERED
FOR SALE IN MISSOURI, 1951 (Cont'd)

| MANUFACTURER AND BRAND NAMES | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|--|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total in Bone % | Avail- able % | Insolu- ble % | |
| SYNTHETIC NITROGEN PRODUCTS CORP., NEW YORK, N. Y. | | | | | |
| Cal-Nitro Fertilizer Compound | 20.50 | ---- | ---- | ---- | ---- |
| TEMPLE COTTON OIL CO., NORTH LITTLE ROCK, ARK. | | | | | |
| Superphosphate | ---- | ---- | 20.00 | ---- | ---- |
| Quapaw 0-10-20 | ---- | ---- | 10.00 | ---- | 20.00 |
| Quapaw 0-14-7 | ---- | ---- | 14.00 | ---- | 7.00 |
| Quapaw 3-9-18 | 3.00 | ---- | 9.00 | ---- | 18.00 |
| Quapaw 4-12-4 | 4.00 | ---- | 12.00 | ---- | 4.00 |
| Quapaw 5-10-5 | 5.00 | ---- | 10.00 | ---- | 5.00 |
| Quapaw 6-8-12 | 6.00 | ---- | 8.00 | ---- | 12.00 |
| Nitrate of Soda | 16.00 | ---- | ---- | ---- | ---- |
| Ammonium Nitrate | 33.50 | ---- | ---- | ---- | ---- |
| Sulphate of Potash Magnesium | ---- | ---- | ---- | ---- | 21.00 |
| Manure Salts | ---- | ---- | ---- | ---- | 22.00 |
| Muriate of Potash | ---- | ---- | ---- | ---- | 50.00 |
| TENNESSEE CORP., EAST POINT, GA. & CINCINNATI, OHIO | | | | | |
| Es-Min-El | | Secondary and Minor Elements Only | | | |
| Spray or Dust Es-Min-El | | Secondary and Minor Elements Only | | | |
| Tennessee Nu-Z | | Secondary and Minor Elements Only | | | |
| Loma 5-10-5 | 5.00 | ---- | 10.00 | ---- | 5.00 |
| Loma 5-10-5 Mineralized | 5.00 | ---- | 10.00 | ---- | 5.00 |
| Loma 8-8-8 | 8.00 | ---- | 8.00 | ---- | 8.00 |
| THOMPSON-HAYWARD CHEMICAL CO., KANSAS CITY, MO. | | | | | |
| Special Fish Fertilizer | 8.00 | ---- | 8.00 | ---- | 4.00 |
| Thompson-Hayward Potash Muriate 60% | ---- | ---- | ---- | ---- | 60.00 |
| THOMPSON SALES CO., MONTGOMERY, ALA. | | | | | |
| Calphos | ---- | ---- | 2.00 | 16.00 | ---- |
| THOMSON PHOSPHATE CO., CHICAGO, ILL. | | | | | |
| Four Leaf Powdered Rock Phosphate 30% | ---- | ---- | 2.00 | 28.00 | ---- |
| Four Leaf Powdered Rock Phosphate 31% | ---- | ---- | 2.00 | 29.00 | ---- |
| Four Leaf Powdered Rock Phosphate 33% | ---- | ---- | 3.00 | 30.00 | ---- |
| THURSTON CHEMICAL CO., JOPLIN, MO. | | | | | |
| BEM Brand 0-20-0 | ---- | ---- | 20.00 | ---- | ---- |
| BEM Brand CSO 20% Superphosphate | ---- | ---- | 20.00 | ---- | ---- |
| BEM Brand 0-46-0 | ---- | ---- | 46.00 | ---- | ---- |
| Soil Doctor 0-46-0 | ---- | ---- | 46.00 | ---- | ---- |
| BEM Brand 0-12-12 | ---- | ---- | 12.00 | ---- | 12.00 |
| BEM Brand 0-14-7 | ---- | ---- | 14.00 | ---- | 7.00 |
| BEM Brand 2-12-6 | 2.00 | ---- | 12.00 | ---- | 6.00 |

TABLE 5. FERTILIZERS, WITH GUARANTEED ANALYSES, REGISTERED AND OFFERED FOR SALE IN MISSOURI, 1951 (Cont'd)

| MANUFACTURER AND BRAND NAMES | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|---|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total in Bone % | Avail- able % | Insolu- ble % | |
| (Thurston Chemical Co., cont'd.) | | | | | |
| BEM Brand 3-9-18 | 3.00 | ---- | 9.00 | ---- | 18.00 |
| BEM Brand 3-12-12 | 3.00 | ---- | 12.00 | ---- | 12.00 |
| BEM Brand 4-12-4 | 4.00 | ---- | 12.00 | ---- | 4.00 |
| BEM Brand Lawn & Garden 4-12-4 | 4.00 | ---- | 12.00 | ---- | 4.00 |
| BEM Brand 4-16-0 | 4.00 | ---- | 16.00 | ---- | ---- |
| BEM Brand 4-16-8 | 4.00 | ---- | 16.00 | ---- | 8.00 |
| BEM Brand 4-24-12 | 4.00 | ---- | 24.00 | ---- | 12.00 |
| Soil Doctor 4-24-12 | 4.00 | ---- | 24.00 | ---- | 12.00 |
| BEM Brand 5-10-5 | 5.00 | ---- | 10.00 | ---- | 5.00 |
| BEM Brand 5-10-10 | 5.00 | ---- | 10.00 | ---- | 10.00 |
| BEM Brand 8-8-8 | 8.00 | ---- | 8.00 | ---- | 8.00 |
| BEM Brand 8-24-8 | 8.00 | ---- | 24.00 | ---- | 8.00 |
| Soil Doctor 8-24-8 | 8.00 | ---- | 24.00 | ---- | 8.00 |
| BEM Brand 8-32-0 | 8.00 | ---- | 32.00 | ---- | ---- |
| Soil Doctor 8-32-0 | 8.00 | ---- | 32.00 | ---- | ---- |
| BEM Brand 10-20-0 | 10.00 | ---- | 20.00 | ---- | ---- |
| Soil Doctor 10-20-0 | 10.00 | ---- | 20.00 | ---- | ---- |
| BEM Brand 0-0-50 | ---- | ---- | ---- | ---- | 50.00 |
| BEM Brand 0-0-60 | ---- | ---- | ---- | ---- | 60.00 |
| TRI-STATE CHEMICAL CO., WEBB CITY, MO. | | | | | |
| Rock Phosphate | ---- | ---- | 2.00 | 32.00 | ---- |
| Gro-Mor Fertilizer 0-20-0 | ---- | ---- | 20.00 | ---- | ---- |
| Gro-Mor Fertilizer 0-45-0 | ---- | ---- | 45.00 | ---- | ---- |
| Gro-Mor Fertilizer 0-12-12 | ---- | ---- | 12.00 | ---- | 12.00 |
| Gro-Mor Fertilizer 0-14-7 | ---- | ---- | 14.00 | ---- | 7.00 |
| Gro-Mor Fertilizer 0-20-20 | ---- | ---- | 20.00 | ---- | 20.00 |
| Gro-Mor Fertilizer 2-12-6 | 2.00 | ---- | 12.00 | ---- | 6.00 |
| Gro-Mor Fertilizer 3-9-18 | 3.00 | ---- | 9.00 | ---- | 18.00 |
| Gro-Mor Fertilizer 3-12-12 | 3.00 | ---- | 12.00 | ---- | 12.00 |
| Gro-Mor Fertilizer 4-12-4 | 4.00 | ---- | 12.00 | ---- | 4.00 |
| Gro-Mor Fertilizer 4-12-8 | 4.00 | ---- | 12.00 | ---- | 8.00 |
| Gro-Mor Fertilizer 4-16-0 | 4.00 | ---- | 16.00 | ---- | ---- |
| Gro-Mor Fertilizer 4-24-12 | 4.00 | ---- | 24.00 | ---- | 12.00 |
| Gro-Mor Fertilizer 5-10-5 | 5.00 | ---- | 10.00 | ---- | 5.00 |
| Gro-Mor Fertilizer 8-8-8 | 8.00 | ---- | 8.00 | ---- | 8.00 |
| Gro-Mor Fertilizer 8-24-8 | 8.00 | ---- | 24.00 | ---- | 8.00 |
| Gro-Mor Fertilizer 21-0-0 | 21.00 | ---- | ---- | ---- | ---- |
| Gro-Mor Fertilizer 0-0-60 | ---- | ---- | ---- | ---- | 60.00 |
| U. S. PHOSPHORIC PRODUCTS, DIVISION OF TENNESSEE CORP., TAMPA, FLA. | | | | | |
| Florida Triple Phosphate 46% A.P.A. | ---- | ---- | 46.00 | ---- | ---- |
| UNITED STATES STEEL CO., PITTSBURG, PA. | | | | | |
| U. S. S. Ammonium Sulphate | 20.60 | ---- | ---- | ---- | ---- |
| VICTOR CHEMICAL WORKS, CHICAGO, ILL. | | | | | |
| Take-Hold | 10.00 | ---- | 52.00 | ---- | 17.00 |

TABLE 5. FERTILIZERS, WITH GUARANTEED ANALYSES, REGISTERED AND OFFERED FOR SALE IN MISSOURI; 1951 (Cont'd)

| MANUFACTURER AND BRAND NAMES | Nitrogen % | Phosphoric Acid (P ₂ O ₅) | | | Potash (K ₂ O) % |
|---|---------------|--|---------------------|---------------------|-----------------------------------|
| | | Total in Bone % | Avail- able % | Insolu- ble % | |
| VIRGINIA-CAROLINA CHEMICAL CORP., EAST ST. LOUIS, ILL. | | | | | |
| V-C 20% Superphosphate. | ---- | ---- | 20.00 | .50 | ---- |
| V-C 45% Superphosphate. | ---- | ---- | 45.00 | .50 | ---- |
| V-C 46% Superphosphate. | ---- | ---- | 46.00 | .50 | ---- |
| V-C 47% Superphosphate. | ---- | ---- | 47.00 | .50 | ---- |
| V-C Fertilizer 0-9-27. | ---- | ---- | 9.00 | .50 | 27.00 |
| V-C Fertilizer 0-10-20. | ---- | ---- | 10.00 | .50 | 20.00 |
| V-C Fertilizer 0-12-12. | ---- | ---- | 12.00 | .50 | 12.00 |
| V-C Fertilizer 0-20-10. | ---- | ---- | 20.00 | .50 | 10.00 |
| V-C Fertilizer 0-20-20. | ---- | ---- | 20.00 | .50 | 20.00 |
| V-C Fertilizer 2-12-6. | 2.00 | ---- | 12.00 | .50 | 6.00 |
| V-C Ammoniated Phospho Tobacco Fertilizer 2-12-6 | 2.00 | ---- | 12.00 | .50 | 6.00 |
| V-C Fertilizer 3-9-18. | 3.00 | ---- | 9.00 | .50 | 18.00 |
| V-C Phospho Tobacco Fertilizer 3-9-18. | 3.00 | ---- | 9.00 | .50 | 18.00 |
| V-C Fertilizer 3-9-27. | 3.00 | ---- | 9.00 | .50 | 27.00 |
| V-C Fertilizer 3-12-12. | 3.00 | ---- | 12.00 | .50 | 12.00 |
| V-C Phospho Tobacco Fertilizer 3-12-12. | 3.00 | ---- | 12.00 | .50 | 12.00 |
| V-C Ammoniated Phospho Tobacco Fertilizer 3-12-12 | 3.00 | ---- | 12.00 | .50 | 12.00 |
| V-C Fertilizer 4-12-4. | 4.00 | ---- | 12.00 | .50 | 4.00 |
| V-C Fertilizer 4-12-8. | 4.00 | ---- | 12.00 | .50 | 8.00 |
| V-C Ammoniated Phospho Tobacco Fertilizer 4-12-8 | 4.00 | ---- | 12.00 | .50 | 8.00 |
| V-C Fertilizer 4-16-0. | 4.00 | ---- | 16.00 | .50 | ---- |
| V-C Fertilizer 4-24-12. | 4.00 | ---- | 24.00 | .50 | 12.00 |
| V-C Fertilizer 5-10-5. | 5.00 | ---- | 10.00 | .50 | 5.00 |
| V-C Fertilizer 6-8-6. | 6.00 | ---- | 8.00 | .50 | 6.00 |
| V-C Fertilizer 6-24-0. | 6.00 | ---- | 24.00 | .50 | ---- |
| V-C Fertilizer 8-8-8. | 8.00 | ---- | 8.00 | .50 | 8.00 |
| V-C Fertilizer 8-24-8. | 8.00 | ---- | 24.00 | .50 | 8.00 |
| V-C Fertilizer 10-6-4. | 10.00 | ---- | 6.00 | .50 | 4.00 |
| V-C Good Luck Fish Pond Fertilizer 10-6-4. | 10.00 | ---- | 6.00 | .50 | 4.00 |
| V-C Fertilizer 10-20-0. | 10.00 | ---- | 20.00 | .50 | ---- |
| Calcium Ammonium Nitrate. | 20.00 | ---- | ---- | ---- | ---- |
| V-C Muriate of Potash 0-0-50. | ---- | ---- | ---- | ---- | 50.00 |
| V-C Muriate of Potash 0-0-60. | ---- | ---- | ---- | ---- | 60.00 |
| F. H. WOODRUFF & SON, INC., MILFORD, CONN. | | | | | |
| Gro-Sod Lawn Food. | 10.00 | ---- | 6.00 | ---- | 4.00 |
| ZIRCON PRODUCTS CO., INC., INDIANAPOLIS, IND. | | | | | |
| Nutri-Plant Liquid Fertilizer. | 5.00 | ---- | 10.00 | ---- | 5.00 |