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COMMERCIAL FERTILIZERS IN 1921-1922



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†As of August 1, 1922.

*In cooperation with School of Veterinary Medicine, A. and M. College of Texas.

**In cooperation with United States Department of Agriculture.

¹Resigned July 1, 1922.

COMMERCIAL FERTILIZERS IN 1921-1922.

G. S. FRAPS AND S. E. ASBURY.

This bulletin deals with the State control of commercial fertilizers. Information concerning the nature and use of fertilizers is to be found in Bulletin 167, copies of which will be sent free on application.

The quantities of commercial fertilizers sold in Texas for several seasons are as follows:

| | |
|--------------|--------------|
| 1905-06..... | 13,500 tons. |
| 1910-11..... | 52,985 tons. |
| 1913-14..... | 77,400 tons. |
| 1914-15..... | 17,500 tons. |
| 1915-16..... | 21,500 tons. |
| 1916-17..... | 42,000 tons. |
| 1917-18..... | 58,000 tons. |
| 1918-19..... | 46,000 tons. |
| 1919-20..... | 56,700 tons. |
| 1920-21..... | 14,850 tons. |
| 1921-22..... | 33,000 tons. |

INFORMATION ON THE BAG

The manufacturer must print the guaranteed analysis of the fertilizer either on the bag or on a tag attached to the bag. The information required to be printed on the bag, or tag, is as follows:

Net weight.

Name of fertilizer in full.

Name and address of manufacturer.

Guaranteed analysis:

Available phosphoric acid, per cent.

Nitrogen, per cent.

Potash, per cent.

Total phosphoric acid may be guaranteed in place of the available in bone or tankage.

FREE ANALYSIS

Fertilizer samples, if taken in accordance with the requirements of the law, will be analyzed free of charge. Those who desire a free analysis of a fertilizer should write for a blank "Application for Free Fertilizer Analysis" to the State Chemist, College Station, Texas. Samples not taken as required by the law cannot be accepted for analysis.

INVESTIGATIONS UNDER THE FERTILIZER LAW

The State Chemist is required by the fertilizer law to "investigate the composition, properties and agricultural values of fertilizers, or

of fertilizer materials, or ingredients of fertilizers, sold or offered for sale within the State of Texas, and shall publish his results as he may find."

RELATION TO STATION WORK

The work of the State Chemist is closely related to the chemical work of the Experiment Station. In his capacity as chemist to the Experiment Station, the State Chemist is carrying out extensive investigations into the fundamental properties of soils, especially with respect to their content of plant food. This work is related closely to the use of the fertilizers, and is connected with the investigations as to the agricultural values of fertilizers required by the fertilizer control, for fertilizers vary in effect upon the different soils.

POTASH IN FERTILIZERS

A number of cooperative fertilizer experiments have been conducted by the chemical division of the Experiment Station, and it has been found that phosphoric acid and nitrogen are much more likely to give results than potash. In 68 out of 114 experiments described in Bulletin 184, potash had no effect. The chances are, therefore, against the potash having any effect when generally used in complete fertilizers on Texas soils. Other cooperative fertilizer experiments are reported in Bulletin 235.

Texas farmers can well afford to eliminate potash from general fertilizers, especially for cotton and corn. Potash should be used only in exceptional cases, where soil conditions and special crops promise returns on the investment. The haphazard use of potash in fertilizer under all conditions should be discontinued. Texas soils can get on much better without fertilizer potash than without phosphoric acid or nitrogen. There has been in the past much waste of potash.

BULK SALES

Fertilizers may be sold in bulk by manufacturers direct to consumers for their own use; the tax must, in such case, be paid by the manufacturer. Fertilizer purchased in bulk and then sold or distributed, must be bagged, and must have a tax tag attached to each sack, also a tag showing the guaranteed analysis of the fertilizer. Considerable saving, both in freight and in purchase price, may be made by purchasing fertilizer in bulk. For further instructions as to the law concerning bulk sales, address the State Chemist at College Station.

LOW GRADE FERTILIZERS

The plant food in low grade fertilizers usually costs much more per pound than in standard grade or high grade goods, although the price per ton or sack may be a little lower. Freight, cost of handling and other expenses, are high in proportion to the plant food present.

COTTONSEED PRODUCTS

Cottonseed meal sold for fertilizer purposes comes under the fertilizer law. A cottonseed product containing less than 6.88 per cent. nitrogen

may not be sold as cottonseed meal, but must be termed cottonseed fertilizer, cottonseed meal and hulls, or given some other name to indicate that it is below the requirement for cottonseed meal. It is an economic error to use cottonseed hulls as a fertilizer. Their feed value is greater than their fertilizer value. It is a pity that good sound cottonseed meal should be used as a fertilizer. Off grade cottonseed meal, damaged by heating or otherwise, is all right for fertilizer. It must rot in the soil before plants can take it up.

ANALYSIS BELOW GUARANTEE

Whenever any lot of fertilizer is 4 per cent. or more below guarantee all persons who have sold this lot of fertilizer must make good the deficiency to all purchasers. The rebate is paid by the manufacturer to the dealer and by the dealer to the consumer. This provision of the law is strictly enforced.

EXPLANATION OF TERMS

Available phosphoric acid is the phosphoric acid which can be taken up immediately by plants. Phosphoric acid promotes the fruiting of plants, though it is necessary for the development of all parts of the plant.

Total phosphoric acid is the entire quantity of the phosphoric acid present, whether available or not. A guarantee of "total phosphoric acid" in place of "available" is made in bone, tankage, rock phosphate, and Thomas phosphate.

Nitrogen refers to the total nitrogen in the fertilizer. It is necessary for the development of all parts of the plant, but an excess of nitrogen delays maturity and is liable to promote the growth of stalk and leaves at expense of fruit. Nitrogen is needed by many Texas soils.

Potash is required to be soluble in water. A great many Texas soils contain a sufficient quantity of potash, so that its use in fertilizer on such soils is a useless expense. Potash, like nitrogen, is needed by all parts of the plants, but especially by stalk and leaves. An excess of potash delays maturity and is liable to promote growth of the stalk and leaves at the expense of fruit.

Valuation per ton represents the cost of the plant food in the unmixed raw material, at retail, in large markets. It is not the price at which the fertilizer is sold. The selling price includes also cost of mixing, sacks, transportation, and manufacturers' and dealers' profits. The valuations are decided on about September 1, and the prices may change before the active fertilizer season, from February to April.

FERTILIZER VALUATIONS, 1921-22.

| | Cents per Pound |
|--|-----------------|
| Available phosphoric acid..... | 6 |
| Total phosphoric acid in Thomas phosphate, tankage and bone..... | 4 |
| Nitrogen..... | 25 |
| Potash..... | 9 |

The relation between the valuation and the retail selling price by merchants is given in Table 1.

Table 1.—Relation of Guaranteed Valuation to Selling Price, 1921-22.

| | Number, Averaged. | Average Valuation Per Ton. | Average Selling Price Per Ton. |
|--|----------------------|----------------------------------|---|
| Acid Phosphate, 18 Per Cent. | 1 | \$ 21.60 | \$ 25.00 |
| Acid Phosphate, 16 Per Cent. | 97 | 19.29 | 23.19 |
| Acid Phosphate, 14 Per Cent. | 4 | 16.80 | 21.75 |
| Nitrate of Soda. | 14 | 74.46 | 74.36 |
| Phosphate and Nitrogen, Standard Grade. | 14 | 20.59 | 32.48 |
| Phosphate and Nitrogen, High Grade. | 23 | 25.12 | 35.61 |
| Complete Fertilizer, Standard Grade. | 77 | 22.18 | 33.45 |
| Complete Fertilizer, High Grade. | 104 | 28.97 | 38.33 |
| Cottonseed Fertilizer. | 4 | 32.08 | 38.87 |
| Phosphate and Potash, High Grade. | 2 | 19.80 | 28.13 |
| Kainit. | 5 | 21.89 | 23.60 |
| Muriate of Potash. | 1 | 86.40 | 66.00 |

Table 2 contains the average guaranteed valuation, and the average valuation found by our analyses, for all manufacturers doing business in Texas. In preparing the table, all analyses made are averaged, even though several were made of each brand.

Table 2.—Guaranteed and delivered fertilizers.

| Name of Manufacturer. | Number Averaged. | Valuation Guarantee. | Valuation Found. |
|---|---------------------|-------------------------|---------------------|
| American Cotton Oil Company. | 6 | \$ 22.11 | \$ 23.18 |
| Arkansas Fertilizer Company. | 8 | 24.81 | 24.90 |
| Armour Fertilizer Works. | 70 | 30.92 | 31.71 |
| Geo. L. Barber. | 1 | 19.20 | 20.99 |
| Bryan Cotton Oil and Fertilizer Company. | 4 | 22.98 | 24.72 |
| Commercial Fertilizer Company. | 1 | 19.20 | 19.00 |
| East Texas Fertilizer Company. | 2 | 26.10 | 29.15 |
| Fidelity Chemical Corporation. | 13 | 21.89 | 21.82 |
| Gate City Fertilizer Company. | 5 | 22.48 | 23.02 |
| Hope Fertilizer Company. | 13 | 22.20 | 22.08 |
| Houston County Cotton Oil Mill and Manufacturing Co. | 3 | 23.58 | 25.21 |
| Houston Packing Company. | 2 | 38.25 | 40.86 |
| Jefferson Oil Company. | 1 | 19.20 | 20.02 |
| Longview Cotton Oil Company. | 5 | 23.89 | 25.95 |
| Marshall Cotton Oil Company. | 9 | 24.93 | 27.50 |
| Mayfield-Alford Company. | 2 | 19.20 | 18.44 |
| Meridian Fertilizer Factory. | 76 | 26.35 | 29.14 |
| Nitrate Agencies Company of Texas. | 1 | 75.00 | 78.00 |
| Palestine Oil and Manufacturing Company. | 5 | 22.53 | 24.60 |
| Pelican Fertilizer Works. | 14 | 22.48 | 24.91 |
| Planters Fertilizer and Chemical Company. | 16 | 22.22 | 22.63 |
| Shreveport Fertilizer Works. | 2 | 20.63 | 23.34 |
| Sulphur Springs Acid and Fertilizer Co. | 3 | 22.33 | 25.73 |
| Swift and Company. | 70 | 25.80 | 26.41 |
| Terrell Oil and Refining Company. | 1 | 33.70 | 35.57 |
| Virginia-Carolina Chemical Company. | 41 | 25.23 | 27.40 |

ANALYSIS OF FERTILIZERS, 1921-22

Table 3 contains a list of all samples of fertilizer subjected to analysis in the season beginning September 1, 1921, to date. The table gives the name and address of the manufacturer, and name of the brand, the guaranteed analysis, and the analysis. Analyses below guarantee are brought out in a heavy type. Practically all the samples

were collected by our inspectors. Analyses and inspection were made by S. E. Asbury, Waldo Walker, L. A. Leverett, and H. B. Smith.

REGISTRATIONS, 1921-22.

A list of brands registered for sale in the season 1921-22 is given in Table 4. Many of the brands so registered were sold in lots of a few sacks, or were not sold at all in the State.

BULLETINS ON RELATED TOPICS.

Any of the bulletins named below will be sent free on application to the Director of the Experiment Station, College Station, Texas:

No. 167—Commercial Fertilizers and Their Use.

No. 178—Effects of Additions on Availability of Soil Phosphates.

No. 184—Cooperative Fertilizer Experiments with Corn, 1908-14.

No. 190—Effect of Additions on Soil Potash.

No. 192—Soils of Grayson, Lee, McLennan, Titus, and Tyler Counties.

No. 212—Availability of Phosphoric Acid in Rock Phosphate.

No. 243—The Needs of Texas Soils for Lime.

No. 244—Composition of the Soils of Archer, Franklin, and Harrison Counties.

No. 247—Chemical Composition of the Cotton Plant.

No. 259—Nitrification in Texas Soils.

No. 267—Relation of the Phosphoric Acid of the Soil to Pot Experiments.

No. 283—Relation of the Soil Nitrogen, Nitrification and Ammonification to Pot Experiments.

No. 284—Availability of Potash in Some Soils—Forming Minerals.

No. 287—Availability of Some Nitrogenous and Phosphatic Materials.

No. 289—The Effect of Rock Phosphate Upon the Corn Possibility of the Phosphoric Acid of the Soil.

Table 3.—Analysis of commercial fertilizers, season 1921-1922.

| Laboratory Number. | Manufacturer, Place of Business and Brand. | Phosphoric Acid Available Per Cent. | Nitrogen—Per Cent. | Potash—Per Cent. | Valuation—Per Ton. |
|--------------------|---|-------------------------------------|--------------------|------------------|--------------------|
| | American Cotton Oil Co., New Orleans, La.— | | | | |
| | Aco Special No. 1022—Guarantee | 10.00 | 1.65 | 2.00 | \$23.85 |
| 28729 | Analysis | 11.49 | 1.75 | 2.13 | 26.37 |
| | Bull Dog Acid Phosphate—Guarantee | 16.00 | | | 19.20 |
| 28823 | Analysis | 16.67 | | | 20.00 |
| 28730 | Analysis | 16.80 | | | 20.16 |
| | Goldsmith Improved Mixture—Guarantee | 10.00 | 1.65 | 1.00 | 22.05 |
| 28825 | Analysis | 9.45 | 2.10 | 1.10 | 23.82 |
| | Supreme Acid Phosphate—Guarantee | 18.00 | | | 21.60 |
| 28824 | Analysis | 17.33 | | | 20.80 |
| | Vegetable Grower—Guarantee | 6.00 | 2.47 | 4.00 | 26.75 |
| 28826 | Analysis | 5.58 | 2.68 | 4.36 | 27.95 |
| | Arkansas Fertilizer Co., Little Rock, Ark.— | | | | |
| | White Diamond Acid Phosphate—Guarantee | 16.00 | | | 19.20 |
| 28902 | Analysis | 15.94 | | | 19.13 |
| 28724 | Analysis | 16.80 | | | 20.16 |
| 28925 | Analysis | 16.79 | | | 20.15 |
| | White Diamond Arkansas Standard Fertilizer—Guarantee | 10.00 | 1.65 | 1.00 | 22.05 |
| 28743 | Analysis | 10.08 | 1.64 | 1.38 | 22.78 |
| | White Diamond Brand Prize Winner—Guarantee | 10.00 | 2.50 | 3.00 | 29.90 |
| 28744 | Analysis | 11.69 | 2.48 | 2.52 | 30.97 |
| | White Diamond High Grade Truck Fertilizer—Guarantee | 8.00 | 3.20 | 6.00 | 36.40 |
| 28745 | Analysis | 9.16 | 2.87 | 3.97 | 32.49 |
| | White Diamond Prize Winner—Guarantee | 10.00 | 2.50 | 3.00 | 29.90 |
| 28946 | Analysis | 10.39 | 2.60 | 2.98 | 30.83 |
| | White Diamond 20th Century Fertilizer—Guarantee | 9.00 | 1.65 | 2.00 | 22.65 |
| 28906 | Analysis | 9.01 | 1.57 | 2.00 | 22.26 |
| | Armour Fertilizer Works, Houston, Fort Worth, Texas, New Orleans, La.— | | | | |
| | Armour's Big Crop African Cotton Grower—Guarantee | 9.00 | 2.47 | 3.00 | 28.55 |
| 28667 | Analysis | 9.08 | 2.55 | 3.11 | 29.25 |
| 28784 | Analysis | 9.59 | 2.46 | 3.18 | 29.53 |
| 28934 | Analysis | 9.36 | 2.27 | 2.96 | 27.91 |
| | Armour's Big Crop Farmers' Favorite—Guarantee | 10.00 | 1.65 | 2.00 | 23.85 |
| 28936 | Analysis | 10.23 | 1.59 | 2.03 | 23.88 |
| 28997 | Analysis | 10.94 | 1.62 | 2.07 | 25.06 |
| | Armour's Big Crop Fertilizer No. 836—Guarantee | 8.00 | 2.47 | 6.00 | 32.75 |
| 28999 | Analysis | 9.87 | 2.14 | 5.01 | 31.55 |
| | Armour's Big Crop Fertilizer No. 844—Guarantee | 8.00 | 3.29 | 4.00 | 33.25 |
| 28937 | Analysis | 8.20 | 2.71 | 2.74 | 28.32 |
| | Armour's Big Crop Fertilizer No. 1033—Guarantee | 10.00 | 2.47 | 3.00 | 29.75 |
| 28875 | Analysis | 10.27 | 2.50 | 2.83 | 29.91 |
| | Armour's Big Crop Nitrate of Soda—Guarantee | | 14.81 | | 74.05 |
| 28624 | Analysis | | 15.80 | | 79.00 |
| 28641 | Analysis | | 15.64 | | 78.20 |
| 28644 | Analysis | | 15.16 | | 75.80 |
| 28646 | Analysis | | 15.64 | | 78.20 |
| 28691 | Analysis | | 15.69 | | 78.45 |
| 28927 | Analysis | | 14.96 | | 74.80 |
| 28983 | Analysis | | 15.64 | | 78.20 |
| | Armour's Big Crop Onion Fertilizer No. 644—Guarantee | 6.00 | 3.29 | 4.00 | 30.85 |
| 28640 | Analysis | 6.37 | 3.09 | 4.45 | 31.10 |
| 28642 | Analysis | 6.15 | 3.24 | 4.51 | 31.70 |
| 28643 | Analysis | 6.68 | 3.11 | 4.28 | 31.27 |
| | Armour's Big Crop Onion Fertilizer No. 844—Guarantee | 8.00 | 3.29 | 4.00 | 33.25 |
| 28637 | Analysis | 8.23 | 3.41 | 4.62 | 35.25 |
| 28638 | Analysis | 8.21 | 3.29 | 4.31 | 34.06 |
| 28639 | Analysis | 7.85 | 3.14 | 4.40 | 33.14 |
| | Armour's Big Crop Onion Fertilizer No. 846—Guarantee | 8.00 | 3.29 | 6.00 | 36.85 |
| 28632 | Analysis | 7.83 | 3.36 | 6.55 | 37.99 |
| 28645 | Analysis | 8.59 | 3.49 | 5.89 | 38.36 |
| 28647 | Analysis | 8.80 | 3.30 | 6.22 | 38.26 |
| 28648 | Analysis | 9.24 | 3.24 | 6.11 | 38.29 |
| 28663 | Analysis | 9.24 | 2.20 | 5.30 | 31.63 |
| | Armour's Big Crop Phosphate and Potash No. 124—Guarantee | 12.00 | | 4.00 | 21.60 |
| 28786 | Analysis | 12.10 | | 3.20 | 20.28 |
| | Armour's Big Crop Star Phosphate—Guarantee | 16.00 | | | 19.20 |
| 28690 | Analysis | 16.42 | | | 19.70 |

Table 3.—Analysis of commercial fertilizers, season 1921-1922.

| Laboratory Number. | Manufacturer, Place of Business and Brand. | Phosphoric Acid Available Per Cent. | Nitrogen—Per Cent. | Potash—Per Cent. | Valuation—Per Ton. |
|--------------------|---|-------------------------------------|--------------------|------------------|--------------------|
| | Armour Fertilizer Works, Houston, Fort Worth, Texas, New Orleans, La.—Continued. | | | | |
| | Armour's Big Crop Star Phosphate—Continued. | | | | |
| 28740 | Analysis..... | 16.88 | | | \$20.26 |
| 28772 | Analysis..... | 16.84 | | | 20.21 |
| 28796 | Analysis..... | 16.09 | | | 19.31 |
| 28822 | Analysis..... | 16.52 | | | 19.82 |
| 28862 | Analysis..... | 16.34 | | | 19.61 |
| 28894 | Analysis..... | 16.14 | | | 19.37 |
| 28903 | Analysis..... | 16.03 | | | 19.24 |
| 28926 | Analysis..... | 16.98 | | | 20.38 |
| 28938 | Analysis..... | 15.97 | | | 19.16 |
| 28993 | Analysis..... | 16.24 | | | 19.49 |
| | Armour's Big Crop Star Phosphate—Guarantee | 16.00 | | | 19.20 |
| 29000 | Analysis..... | 17.28 | | | 20.74 |
| 29002 | Analysis..... | 16.46 | | | 19.75 |
| 29003 | Analysis..... | 16.64 | | | 19.97 |
| | Armour's Big Crop Texas Trucker—Guarantee. | 8.00 | 2.47 | 3.00 | 27.35 |
| 28703 | Analysis..... | 8.37 | 2.65 | 3.34 | 29.30 |
| 28833 | Analysis..... | 8.56 | 2.67 | 3.04 | 29.09 |
| 28861 | Analysis..... | 8.21 | 2.77 | 2.96 | 29.03 |
| 28892 | Analysis..... | 8.60 | 2.63 | 2.88 | 28.61 |
| 28998 | Analysis..... | 8.42 | 2.58 | 3.15 | 28.67 |
| | Armour's Big Crop Texas Vegetable Grower—Guarantee | 9.00 | 2.05 | 3.00 | 26.45 |
| 28661 | Analysis..... | 8.93 | 2.12 | 3.54 | 27.69 |
| | Armour's Big Crop Tomato Grower—Guarantee. | 8.00 | 2.47 | 3.00 | 27.35 |
| 28702 | Analysis..... | 7.87 | 2.59 | 3.25 | 27.24 |
| | Armour's Big Crop Truck Special—Guarantee. | 7.00 | 4.11 | 6.00 | 39.75 |
| 28633 | Analysis..... | 7.23 | 4.12 | 6.63 | 41.21 |
| 28660 | Analysis..... | 7.48 | 4.26 | 4.77 | 38.87 |
| 28689 | Analysis..... | 7.14 | 3.74 | 5.67 | 37.48 |
| 28708 | Analysis..... | 6.98 | 4.02 | 6.13 | 39.51 |
| | Armour's Cotton Fertilizer No. 1020—Guarantee. | 10.00 | 1.65 | | 20.25 |
| 28688 | Analysis..... | 10.12 | 1.57 | | 19.99 |
| | Armour's Fertilizer No. 1120—Guarantee. | 11.00 | 1.65 | | 21.45 |
| 28935 | Analysis..... | 11.43 | 1.73 | | 22.37 |
| | Armour's King Cotton—Guarantee. | 8.00 | 1.65 | 2.00 | 21.45 |
| 28773 | Analysis..... | 8.65 | 1.90 | 2.45 | 24.29 |
| 28832 | Analysis..... | 8.94 | 1.84 | 2.19 | 23.87 |
| 28952 | Analysis..... | 8.20 | 1.59 | 2.05 | 21.48 |
| 29001 | Analysis..... | 8.85 | 1.60 | 1.88 | 22.00 |
| | Armour's Phosphate and Tankage—Guarantee. | 10.00 | 1.65 | | 20.25 |
| 28860 | Analysis..... | 11.09 | 2.10 | | 23.81 |
| | Armour's Royal Mixture—Guarantee. | 10.00 | 1.65 | 1.00 | 22.05 |
| 28774 | Analysis..... | 10.87 | 1.74 | 1.32 | 24.12 |
| | Armour's Special Farm Mixture—Guarantee. | 8.00 | 1.65 | 2.00 | 21.45 |
| 28662 | Analysis..... | 8.03 | 1.75 | 2.32 | 22.77 |
| 28910 | Analysis..... | 7.47 | 1.50 | 1.56 | 19.27 |
| | Armour's Special Tankage Mixture—Guarantee. | 9.50 | 1.65 | 1.50 | 22.35 |
| 28783 | Analysis..... | 9.79 | 1.78 | 1.57 | 23.48 |
| 28785 | Analysis..... | 9.70 | 1.70 | 1.44 | 22.73 |
| 28994 | Analysis..... | 10.05 | 1.62 | 1.62 | 23.08 |
| | Armour's Tankage Truck Grower—Guarantee. | 10.00 | 2.47 | | 24.35 |
| 28687 | Analysis..... | 10.36 | 2.41 | | 24.48 |
| 28709 | Analysis..... | 10.20 | 2.46 | | 24.54 |
| 28741 | Analysis..... | 10.92 | 2.18 | | 24.00 |
| 28795 | Analysis..... | 10.61 | 2.56 | | 25.53 |
| 28891 | Analysis..... | 10.39 | 2.41 | | 24.52 |
| | Geo. L. Barber, Jacksonville, Texas.— | | | | |
| | Barber's 16 Per Cent Acid Phosphate—Guarantee. | 16.00 | | | 19.20 |
| 28682 | Analysis..... | 17.49 | | | 20.99 |
| | Bryan Cotton Oil and Fertilizer Co., Bryan, Texas.— | | | | |
| | Star Brand Cotton and Corn Fertilizer—Guarantee. | 11.50 | 1.80 | | 22.80 |
| 28770 | Analysis..... | 13.72 | 1.66 | | 24.76 |
| 28877 | Analysis..... | 13.22 | 1.78 | | 24.76 |
| | Star Brand Potato Fertilizer—Guarantee. | 8.00 | 3.50 | | 27.10 |
| 28769 | Analysis..... | 9.41 | 3.77 | | 30.14 |
| | Star Brand 16 Per Cent Acid Phosphate—Guarantee. | 16.00 | | | 19.20 |
| 28876 | Analysis..... | 16.09 | | | 19.21 |
| | Commercial Fertilizer Co., Little Rock, Ark.— | | | | |
| | Commercial Acid Phosphate—Guarantee. | 16.00 | | | 19.20 |
| 28947 | Analysis..... | 15.83 | | | 19.00 |

Table 3.—Analysis of commercial fertilizers, season 1921-1922.

| Laboratory Number. | Manufacturer, Place of Business and Brand. | Phosphoric Acid—Available Per Cent. | Nitrogen—Per Cent. | Potash—Per Cent. | Valuation—Per Ton. |
|--------------------|--|-------------------------------------|--------------------|------------------|--------------------|
| | East Texas Fertilizer Co., Tyler, Texas.— | | | | |
| | Cotton Seed Fertilizer—Guarantee..... | 1.00 | 6.00 | 1.00 | \$33.00 |
| 28711 | Analysis..... | 2.76 | 6.53 | 1.81 | 39.22 |
| | 16 Per Cent Acid Phosphate—Guarantee..... | 16.00 | | | 19.20 |
| 28710 | Analysis..... | 15.89 | | | 19.07 |
| | Fidelity Chemical Corporation, Houston, Texas.— | | | | |
| | Fidelity Cotton Special Fertilizer—Guarantee..... | 10.00 | 1.65 | 2.00 | 23.85 |
| 28882 | Analysis..... | 10.49 | 1.58 | 1.44 | 23.08 |
| 28915 | Analysis..... | 9.49 | 2.08 | 1.81 | 25.04 |
| | Fidelity Kainit—Guarantee..... | | | 12.00 | 21.60 |
| 28767 | Analysis..... | | | 12.50 | 22.50 |
| | Fidelity Peerless Trucker Fertilizer—Guarantee..... | 8.00 | 2.47 | 5.00 | 30.95 |
| 28916 | Analysis..... | 7.25 | 2.41 | 3.65 | 27.32 |
| | Fidelity Potato Special Fertilizer—Guarantee..... | 7.00 | 2.06 | 3.00 | 24.10 |
| 28655 | Analysis..... | 5.99 | 2.82 | 2.17 | 25.20 |
| | Fidelity Rice Planters' Fertilizer—Guarantee..... | 12.00 | | 2.00 | 18.00 |
| 28654 | Analysis..... | 8.85 | | 2.23 | 13.63 |
| | Fidelity 16 Per Cent Acid Phosphate—Guarantee..... | 16.00 | | | 19.20 |
| 28622 | Analysis..... | 16.67 | | | 20.00 |
| 28651 | Analysis..... | 18.40 | | | 22.08 |
| 28768 | Analysis..... | 15.59 | | | 18.71 |
| 28868 | Analysis..... | 16.47 | | | 19.76 |
| 28874 | Analysis..... | 16.10 | | | 19.32 |
| 28913 | Analysis..... | 15.36 | | | 18.43 |
| | Fidelity Tomato Special Fertilizer—Guarantee..... | 10.00 | 2.47 | 1.50 | 27.05 |
| 28873 | Analysis..... | 10.28 | 2.66 | 1.60 | 28.52 |
| | Gate City Fertilizer Co., Little Rock, Arkansas.— | | | | |
| | Red Ball Acid Phosphate—Guarantee..... | 16.00 | | | 19.20 |
| 28943 | Analysis..... | 16.09 | | | 19.31 |
| | Red Ball Blood and Bone—Guarantee..... | 11.00 | 1.50 | 1.50 | 23.40 |
| 28816 | Analysis..... | 11.04 | 1.48 | 1.50 | 23.35 |
| 28944 | Analysis..... | 11.48 | 1.61 | 1.56 | 24.64 |
| | Red Ball Complete Fertilizer—Guarantee..... | 10.00 | 1.65 | 1.00 | 22.05 |
| 28815 | Analysis..... | 11.17 | 1.80 | 1.55 | 25.19 |
| | Red Ball Prize Winner—Guarantee..... | 10.00 | 2.47 | | 24.35 |
| 28909 | Analysis..... | 10.03 | 2.11 | | 22.59 |
| | Hope Fertilizer Co., Hope, Arkansas.— | | | | |
| | Hope Fertilizer No. 10—Guarantee..... | 11.00 | 1.65 | | 21.45 |
| 28813 | Analysis..... | 11.56 | 1.93 | | 23.52 |
| 28954 | Analysis..... | 8.50 | 1.84 | | 19.40 |
| | Our Cotton Grower—Guarantee..... | 10.00 | 1.65 | 1.00 | 22.05 |
| 28951 | Analysis..... | 8.86 | 1.66 | 1.30 | 21.27 |
| | Our Extra Cotton Grower—Guarantee..... | 10.00 | 1.65 | 2.00 | 23.85 |
| 28807 | Analysis..... | 10.03 | 1.72 | 2.48 | 25.07 |
| 28812 | Analysis..... | 10.44 | 1.89 | 2.44 | 26.37 |
| | Our Potato Grower—Guarantee..... | 8.00 | 2.00 | 6.00 | 30.40 |
| 28808 | Analysis..... | 8.37 | 2.00 | 6.00 | 30.84 |
| 28949 | Analysis..... | 8.28 | 1.91 | 6.00 | 30.30 |
| | Stork Brand Acid Phosphate 16 Per Cent—Guarantee..... | 16.00 | | | 19.20 |
| 28809 | Analysis..... | 16.00 | | | 19.20 |
| 28814 | Analysis..... | 16.24 | | | 19.49 |
| 28941 | Analysis..... | 16.13 | | | 19.36 |
| 28945 | Analysis..... | 14.49 | | | 17.39 |
| 28950 | Analysis..... | 14.63 | | | 17.56 |
| 28953 | Analysis..... | 14.41 | | | 17.29 |
| | Houston County Cotton Oil Mill and Manufacturing Co., Crockett, Texas.— | | | | |
| | Crockett Compound—Guarantee..... | 9.00 | 3.50 | 1.00 | 30.10 |
| 28981 | Analysis..... | 9.33 | 3.26 | 1.59 | 30.36 |
| | Crockett Phosphate Meal Mixture—Guarantee..... | 11.00 | 1.65 | | 21.45 |
| 28980 | Analysis..... | 12.84 | 1.94 | | 25.11 |
| | Crockett 16 Per Cent Acid Phosphate—Guarantee..... | 16.00 | | | 19.20 |
| 28982 | Analysis..... | 16.80 | | | 20.16 |
| | Houston Packing Co., Houston, Texas.— | | | | |
| | Blood and Bone—Guarantee..... | 14.50 | 5.60 | | 39.60 |
| 28653 | Analysis..... | 17.17 | 6.02 | | 43.84 |
| | Ground Raw Bone—Guarantee..... | 23.00 | 3.70 | | 36.90 |
| 28869 | Analysis..... | 25.66 | 3.47 | | 37.88 |
| | Jefferson Oil Co., Jefferson, Texas.— | | | | |
| | Jefferson Acid Phosphate—Guarantee..... | 16.00 | | | 19.20 |
| 28803 | Analysis..... | 16.68 | | | 20.02 |
| | Longview Cotton Oil Co., Longview, Texas.— | | | | |
| | Longview Acid Phosphate..... | 16.00 | | | 19.20 |
| 28751 | Analysis..... | 16.25 | | | 19.51 |
| 28837 | Analysis..... | 17.26 | | | 20.71 |

Table 3.—Analysis of commercial fertilizers, season 1921-1922.

| Laboratory Number. | Manufacturer, Place of Business and Brand. | Phosphoric Acid Available Per Cent. | Nitrogen—Per Cent. | Potash—Per Cent. | Valuation—Per Ton. |
|--------------------|---|-------------------------------------|--------------------|------------------|--------------------|
| | Longview Cotton Oil Co., Longview, Texas.—Continued. | | | | |
| 28748 | Longview Cotton Fertilizer—Guarantee..... | 11.00 | 1.65 | 1.50 | \$24.15 |
| | Analysis..... | 12.72 | 1.96 | 1.42 | 27.62 |
| | Longview Supreme Corn and Potato Grower—Guarantee..... | 8.00 | 3.00 | 3.00 | 30.00 |
| 28749 | Analysis..... | 9.03 | 3.01 | 3.14 | 31.54 |
| | Longview Tomato Grower—Guarantee..... | 9.00 | 2.50 | 2.00 | 26.90 |
| 28750 | Analysis..... | 10.29 | 2.62 | 2.74 | 30.38 |
| | Marshall Cotton Oil Co., Marshall, Texas.— | | | | |
| | Harrison County Special—Guarantee..... | 12.00 | 1.65 | ..... | 22.65 |
| 28800 | Analysis..... | 13.76 | 2.04 | ..... | 26.71 |
| 28955 | Analysis..... | 13.84 | 1.70 | ..... | 25.11 |
| | Marshall Acid Phosphate—Guarantee..... | 16.00 | ..... | ..... | 19.20 |
| 28799 | Analysis..... | 17.24 | ..... | ..... | 20.69 |
| | Marshall Corn and Potato Special—Guarantee..... | 8.75 | 2.75 | 2.50 | 28.75 |
| 28956 | Analysis..... | 10.73 | 2.44 | 2.48 | 29.54 |
| 28801 | Analysis..... | 10.06 | 2.61 | 3.33 | 31.11 |
| | Marshall Cotton Grower Special—Guarantee..... | 10.00 | 2.00 | 2.00 | 25.60 |
| 28802 | Analysis..... | 11.39 | 2.20 | 2.76 | 29.66 |
| 28957 | Analysis..... | 11.57 | 1.99 | 2.55 | 27.88 |
| 28959 | Analysis..... | 11.84 | 1.98 | 2.67 | 28.92 |
| 28960 | Analysis..... | 10.48 | 2.17 | 2.77 | 28.42 |
| | Mayfield-Alford Co., Henderson, Texas.— | | | | |
| | Alford's Nuf Ced 16 Per Cent Acid Phosphate—Guarantee..... | 16.00 | ..... | ..... | 19.20 |
| 28747 | Analysis..... | 17.07 | ..... | ..... | 20.48 |
| 28971 | Analysis..... | 13.67 | ..... | ..... | 16.40 |
| | Meridian Fertilizer Factory, Shreveport, La.— | | | | |
| | Kainit—Guarantee..... | ..... | ..... | 12.00 | 21.60 |
| 28686 | Analysis..... | ..... | ..... | 11.83 | 21.29 |
| | Meridian Blood and Bone—Guarantee..... | 10.00 | 1.65 | 1.00 | 22.05 |
| 28987 | Analysis..... | 12.33 | 1.15 | 1.48 | 23.21 |
| 28895 | Analysis..... | 10.19 | 1.97 | 1.59 | 24.94 |
| | Meridian Corn Club Special—Guarantee..... | 7.50 | 2.47 | 1.00 | 23.15 |
| 28757 | Analysis..... | 11.28 | 3.18 | 2.23 | 33.45 |
| 28836 | Analysis..... | 9.56 | 2.66 | 1.02 | 26.62 |
| | Meridian Farm Special—Guarantee..... | 10.00 | 1.65 | ..... | 20.25 |
| 28778 | Analysis..... | 12.57 | 2.05 | ..... | 25.23 |
| | Meridian Home Mixture—Guarantee..... | 10.00 | 1.65 | 1.00 | 22.05 |
| 28719 | Analysis..... | 12.29 | 1.90 | 1.40 | 26.77 |
| 28722 | Analysis..... | 10.39 | 3.10 | 2.26 | 32.04 |
| 28746 | Analysis..... | 12.03 | 2.00 | 1.34 | 26.85 |
| 28759 | Analysis..... | 12.45 | 1.83 | 1.93 | 27.56 |
| 28779 | Analysis..... | 11.96 | 1.91 | 1.52 | 26.64 |
| 28787 | Analysis..... | 12.67 | 1.48 | 1.52 | 25.34 |
| 28810 | Analysis..... | 13.26 | 1.64 | 1.16 | 26.20 |
| 28827 | Analysis..... | 11.57 | 1.72 | 1.74 | 25.61 |
| 28835 | Analysis..... | 11.21 | 1.94 | 1.61 | 26.05 |
| 28844 | Analysis..... | 11.08 | 2.09 | 1.48 | 26.41 |
| 28850 | Analysis..... | 10.11 | 2.26 | 1.79 | 26.65 |
| 28898 | Analysis..... | 11.83 | 1.45 | 1.58 | 24.30 |
| 28900 | Analysis..... | 11.31 | 1.20 | 1.81 | 22.83 |
| 28905 | Analysis..... | 11.78 | 1.85 | 1.51 | 26.12 |
| 28920 | Analysis..... | 13.78 | 1.33 | 1.41 | 25.72 |
| 28924 | Analysis..... | 10.78 | 2.42 | 1.11 | 27.04 |
| 28963 | Analysis..... | 11.11 | 1.53 | 3.28 | 27.88 |
| 28970 | Analysis..... | 11.75 | 1.70 | 1.04 | 24.47 |
| 28989 | Analysis..... | 11.70 | 1.54 | 1.04 | 23.61 |
| | Meridian Meal Mixture—Guarantee..... | 10.00 | 1.65 | 1.00 | 22.05 |
| 28775 | Analysis..... | 13.55 | 1.53 | 1.58 | 26.75 |
| 28893 | Analysis..... | 11.59 | 1.36 | 2.00 | 24.31 |
| | Meridian Nitrated Bone and Potash—Guarantee..... | 10.00 | 1.65 | 2.00 | 23.05 |
| 28918 | Analysis..... | 12.25 | 2.31 | 2.07 | 29.98 |
| | Meridian Nitrated Bone and Potash—Guarantee..... | 10.00 | 1.65 | 2.00 | 23.85 |
| 28922 | Analysis..... | 9.67 | 1.91 | 1.43 | 23.72 |
| | Meridian Perfection Blood Compound—Guarantee..... | 10.00 | 2.47 | 3.00 | 29.75 |
| 28731 | Analysis..... | 12.97 | 2.34 | 3.48 | 33.52 |
| 28888 | Analysis..... | 12.41 | 2.47 | 1.93 | 30.71 |
| | Meridian Perfection Meal Compound—Guarantee..... | 10.00 | 2.47 | 3.00 | 29.75 |
| 28706 | Analysis..... | 11.12 | 2.37 | 2.77 | 30.18 |
| 28713 | Analysis..... | 13.22 | 2.90 | 3.76 | 37.13 |
| 28739 | Analysis..... | 10.93 | 2.49 | 3.27 | 31.46 |
| 28919 | Analysis..... | 12.78 | 1.32 | 3.38 | 28.02 |
| | Meridian Prolific Wonder—Guarantee..... | 12.00 | 2.00 | 2.00 | 28.00 |
| 28664 | Analysis..... | 11.54 | 2.81 | 4.36 | 35.75 |

Table 3.—Analysis of commercial fertilizers, season 1921-1922.

| Laboratory Number. | Manufacturer, Place of Business and Brand. | Phosphoric Acid Available Per Cent. | Nitrogen—Per Cent. | Potash—Per Cent. | Valuation—Per Ton. |
|--|--|-------------------------------------|--------------------|------------------|--------------------|
| Meridian Fertilizer Factory, Shreveport, La.—Continued. | | | | | |
| 28846 | Meridian Raw Bone Mixture—Guarantee | 10.00 | 1.65 | 1.00 | \$22.05 |
| | Analysis | 11.04 | 2.11 | 1.22 | 26.00 |
| | Meridian Southern Acid Phosphate—Guarantee | 14.00 | | | 16.80 |
| 28760 | Analysis | 14.27 | | | 17.12 |
| | Meridian Special Cotton Formula—Guarantee | 10.00 | 1.65 | | 20.25 |
| 28756 | Analysis | 12.83 | 2.10 | | 25.90 |
| 28917 | Analysis | 13.02 | 1.75 | | 24.37 |
| | Meridian Special Truck Formula—Guarantee | 6.00 | 3.00 | 4.00 | 29.40 |
| 28692 | Analysis | 10.46 | 3.00 | 3.81 | 34.41 |
| | Meridian Tankage Compound—Guarantee | 8.50 | 2.47 | | 22.75 |
| 28683 | Analysis | 9.92 | 2.26 | | 23.20 |
| | Meridian Tomato Special—Guarantee | 10.00 | 2.47 | 1.00 | 26.15 |
| 28681 | Analysis | 12.87 | 2.65 | 1.56 | 31.50 |
| 28684 | Analysis | 11.11 | 2.36 | 1.66 | 28.12 |
| 28720 | Analysis | 12.56 | 2.72 | 1.61 | 30.57 |
| 28721 | Analysis | 10.68 | 2.18 | 1.79 | 26.94 |
| 28736 | Analysis | 13.12 | 2.43 | 1.64 | 30.85 |
| 28889 | Analysis | 12.40 | 1.93 | 1.03 | 26.38 |
| 28896 | Analysis | 12.91 | 2.50 | 1.23 | 30.20 |
| | Meridian Vegetable Grower—Guarantee | 8.00 | 2.47 | 5.00 | 30.95 |
| 28665 | Analysis | 10.33 | 2.64 | 6.33 | 36.99 |
| 28714 | Analysis | 12.66 | 2.14 | 3.63 | 32.42 |
| 28890 | Analysis | 10.93 | 1.84 | 2.85 | 27.45 |
| | Nitrate of Soda—Guarantee | | 15.00 | | 75.00 |
| 28685 | Analysis | | 15.93 | | 79.65 |
| 28831 | Analysis | | 15.79 | | 78.95 |
| 28923 | Analysis | | 15.56 | | 77.80 |
| | Nitrate of Soda—Guarantee | | 15.00 | | 75.00 |
| 28958 | Analysis | | 15.64 | | 78.20 |
| 28973 | Analysis | | 15.19 | | 75.95 |
| | Texas Special—Guarantee | 10.00 | 2.72 | | 25.60 |
| 28849 | Analysis | 11.15 | 2.55 | | 26.13 |
| | Union Special Acid Phosphate—Guarantee | 16.00 | | | 19.20 |
| 28666 | Analysis | 17.19 | | | 20.63 |
| 28712 | Analysis | 18.02 | | | 21.62 |
| 28758 | Analysis | 16.96 | | | 20.35 |
| 28777 | Analysis | 17.38 | | | 20.86 |
| 28811 | Analysis | 17.66 | | | 21.19 |
| 28818 | Analysis | 16.62 | | | 19.94 |
| 28819 | Analysis | 16.64 | | | 19.97 |
| 28828 | Analysis | 17.14 | | | 20.57 |
| 28845 | Analysis | 16.47 | | | 19.77 |
| 28897 | Analysis | 15.74 | | | 18.19 |
| 28899 | Analysis | 17.10 | | | 20.52 |
| 28901 | Analysis | 16.65 | | | 19.98 |
| 28907 | Analysis | 16.95 | | | 20.34 |
| 28921 | Analysis | 15.61 | | | 18.73 |
| 28965 | Analysis | 17.26 | | | 20.71 |
| 28986 | Analysis | 16.19 | | | 19.43 |
| 28988 | Analysis | 16.10 | | | 19.32 |
| 28990 | Analysis | 16.01 | | | 19.21 |
| Nitrate Agencies Co. of Texas, Houston, Texas.— | | | | | |
| | Nitrate of Soda—Guarantee | | 15.00 | | 75.00 |
| 28794 | Analysis | | 15.60 | | 78.00 |
| Palestine Oil and Manufacturing Co., Palestine, Texas.— | | | | | |
| | Acid Phosphate, 16 Per Cent—Guarantee | 16.00 | | | 19.20 |
| 28679 | Analysis | 16.50 | | | 19.80 |
| 28776 | Analysis | 16.24 | | | 19.49 |
| | Acid Phosphate, 14 Per Cent—Guarantee | 14.00 | | | 16.80 |
| 28680 | Analysis | 15.18 | | | 18.22 |
| | Cottonseed Meal Fertilizer—Guarantee | 1.00 | 6.88 | 1.00 | 37.40 |
| 28780 | Analysis | 2.65 | 7.17 | 1.72 | 42.13 |
| | Palestine Cotton Grower—Guarantee | 10.00 | 1.65 | | 20.25 |
| 28884 | Analysis | 12.40 | 1.70 | | 23.38 |
| Pelican Fertilizer Works, Shreveport, La.— | | | | | |
| | Pelican Blood and Bone—Guarantee | 10.00 | 1.65 | 1.00 | 22.05 |
| 28975 | Analysis | 12.17 | 1.57 | 1.30 | 24.80 |
| | Pelican Meal Compound—Guarantee | 10.00 | 1.65 | 1.00 | 22.05 |
| 28782 | Analysis | 12.50 | 1.80 | 1.54 | 26.77 |
| | Pelican Meal Compound—Guarantee | 10.00 | 1.65 | 1.00 | 22.05 |
| 28883 | Analysis | 10.80 | 1.86 | 1.54 | 24.83 |
| 28964 | Analysis | 11.97 | 1.68 | 1.00 | 24.56 |
| 28976 | Analysis | 11.82 | 2.01 | 1.10 | 26.21 |
| 28979 | Analysis | 11.34 | 1.93 | 1.31 | 25.62 |

Table 3.—Analysis of commercial fertilizers, season 1921-1922.

| Laboratory Number. | Manufacturer, Place of Business and Brand. | Phosphoric Acid Available Per Cent. | Nitrogen—Per Cent. | Potash—Per Cent. | Valuation—Per Ton. |
|--|--|-------------------------------------|--------------------|------------------|--------------------|
| Pelican Fertilizer Works, Shreveport, La.—Continued. | | | | | |
| 28978 | Pelican Special Formula—Guarantee..... | 10.00 | 1.65 | ..... | \$20.25 |
| | Analysis..... | 11.30 | 2.58 | ..... | 26.46 |
| 28696 | Pelican Special Phosphate—Guarantee..... | 16.00 | ..... | ..... | 19.20 |
| 28781 | Analysis..... | 15.61 | ..... | ..... | 18.73 |
| 28977 | Analysis..... | 15.67 | ..... | ..... | 18.80 |
| | Analysis..... | 13.37 | ..... | ..... | 16.04 |
| 28695 | Pelican Tomato Special—Guarantee..... | 10.00 | 2.47 | 1.00 | 26.15 |
| 28697 | Analysis..... | 10.09 | 2.32 | 4.82 | 32.39 |
| 28698 | Analysis..... | 11.18 | 3.02 | 1.72 | 31.62 |
| 28793 | Analysis..... | 10.81 | 1.98 | 1.46 | 25.52 |
| | Analysis..... | 11.14 | 2.05 | 1.54 | 26.39 |
| Planters Fertilizer and Chemical Co., Houston, Fort Worth, Texas, New Orleans, La.— | | | | | |
| 28904 | Planters' Plow Brand Ammoniated Superphosphate—Guarantee..... | 10.00 | 1.65 | 2.00 | 23.85 |
| | Analysis..... | 10.16 | 1.65 | 1.98 | 23.95 |
| 28762 | Planters' Plow Brand Champion Meal Mixture—Guarantee..... | 10.00 | 1.65 | 2.00 | 23.85 |
| | Analysis..... | 10.43 | 1.88 | 2.36 | 26.17 |
| 28764 | Planters' Plow Brand Farm Special—Guarantee..... | 8.00 | 1.65 | 2.00 | 21.45 |
| | Analysis..... | 8.17 | 1.80 | 1.89 | 22.20 |
| 28727 | Planters' Plow Brand Imperial Truck Mixture—Guarantee..... | 8.00 | 2.47 | 3.00 | 27.35 |
| 28742 | Analysis..... | 8.91 | 2.55 | 3.11 | 29.04 |
| | Analysis..... | 8.11 | 2.38 | 3.53 | 27.98 |
| 28870 | Planters' Plow Brand Kainit—Guarantee..... | ..... | ..... | 12.40 | 22.32 |
| | Analysis..... | ..... | ..... | 10.76 | 19.37 |
| 28652 | Planters' Plow Brand Old Standard Super Phosphate—Guarantee..... | 9.50 | 1.65 | 1.50 | 22.35 |
| 28659 | Analysis..... | 9.07 | 1.62 | 1.98 | 22.54 |
| 28871 | Analysis..... | 7.88 | 1.65 | 1.60 | 20.54 |
| | Analysis..... | 10.45 | 1.80 | 1.48 | 24.20 |
| 28658 | Planters' Plow Brand, 16 Per Cent Acid Phosphate—Guarantee..... | 16.00 | ..... | ..... | 19.20 |
| 28726 | Analysis..... | 16.48 | ..... | ..... | 19.78 |
| 28728 | Analysis..... | 16.13 | ..... | ..... | 19.36 |
| 28761 | Analysis..... | 17.07 | ..... | ..... | 20.48 |
| 28872 | Analysis..... | 17.19 | ..... | ..... | 20.63 |
| | Analysis..... | 15.95 | ..... | ..... | 19.14 |
| 28908 | Planters' Plow Brand, 16 Per Cent Acid Phosphate—Guarantee..... | 16.00 | ..... | ..... | 19.20 |
| | Analysis..... | 15.02 | ..... | ..... | 18.02 |
| 28763 | Planters' Plow Brand Texas Vegetable Grower—Guarantee..... | 7.00 | 2.47 | 3.50 | 27.05 |
| | Analysis..... | 7.98 | 2.47 | 3.72 | 28.63 |
| Shreveport Fertilizer Works, Shreveport, La.— | | | | | |
| 28992 | Lion Blood and Bone—Guarantee..... | 10.00 | 1.65 | 1.00 | 22.05 |
| | Analysis..... | 10.85 | 2.01 | 1.35 | 26.50 |
| 28991 | Lion Extra Good Acid Phosphate—Guarantee..... | 16.00 | ..... | ..... | 19.20 |
| | Analysis..... | 16.82 | ..... | ..... | 20.18 |
| Sulphur Springs Acid and Fertilizer Co., Sulphur Springs, Texas.— | | | | | |
| 28679 | Acid Phosphate—Guarantee..... | 16.00 | ..... | ..... | 19.20 |
| 28817 | Analysis..... | 16.50 | ..... | ..... | 19.80 |
| | Analysis..... | 16.24 | ..... | ..... | 19.49 |
| 28830 | Perfection Fertilizer—Guarantee..... | 8.00 | 2.00 | 2.00 | 23.20 |
| | Analysis..... | 8.89 | 2.42 | 3.33 | 28.77 |
| 28829 | Planters' Special Fertilizer—Guarantee..... | 8.00 | 3.00 | ..... | 24.60 |
| | Analysis..... | 10.35 | 3.30 | ..... | 28.92 |
| Swift & Co., Harvey and Shreveport, La.— | | | | | |
| 28668 | Swift's Ammoniated Raw Bone Superphosphate—Guarantee..... | 9.50 | 1.65 | 1.50 | 22.35 |
| 28843 | Analysis..... | 9.71 | 1.72 | 1.64 | 22.80 |
| 28851 | Analysis..... | 9.68 | 1.86 | 1.70 | 23.98 |
| 28853 | Analysis..... | 9.83 | 1.80 | 1.48 | 23.46 |
| 28856 | Analysis..... | 9.96 | 1.90 | 1.45 | 24.06 |
| 28859 | Analysis..... | 10.00 | 1.62 | 1.62 | 23.02 |
| 28866 | Analysis..... | 9.62 | 1.84 | 1.48 | 23.40 |
| | Analysis..... | 10.27 | 1.81 | 1.43 | 23.94 |
| 28677 | Swift's Blood and Bone and Potash—Guarantee..... | 9.50 | 3.29 | 7.00 | 40.45 |
| 28707 | Analysis..... | 9.91 | 3.02 | 7.19 | 39.93 |
| | Analysis..... | 10.45 | 2.91 | 6.92 | 39.55 |

Table 3.—Analysis of commercial fertilizers, season 1921-1922.

| Laboratory Number. | Manufacturer, Place of Business and Brand. | Phosphoric Acid Available Per Cent. | Nitrogen—Per Cent. | Potash—Per Cent. | Valuation—Per Ton. |
|---|--|-------------------------------------|--------------------|------------------|--------------------|
| Swift & Co., Harvey and Shreveport, La.—Continued. | | | | | |
| 28821 | Swift's Eagle—Guarantee..... | 10.00 | 1.65 | 2.00 | \$23.85 |
| | Analysis..... | 10.65 | 1.70 | 2.20 | 25.24 |
| 28715 | Swift's 5.76 Cottonseed Fertilizer—Guarantee..... | | 5.76 | | 28.80 |
| | Analysis..... | | 6.82 | | 34.10 |
| 28669 | Swift's High Grade Acid Phosphate Fertilizer, 16 Per Cent—Guarantee..... | 16.00 | | | 19.20 |
| | Analysis..... | 17.10 | | | 20.52 |
| 28675 | Analysis..... | 16.94 | | | 20.33 |
| 28704 | Analysis..... | 16.49 | | | 19.79 |
| 28735 | Analysis..... | 16.98 | | | 20.38 |
| | Swift's High Grade Acid Phosphate Fertilizer, 16 Per Cent—Guarantee..... | 16.00 | | | 19.20 |
| 28755 | Analysis..... | 17.06 | | | 20.47 |
| 28797 | Analysis..... | 16.35 | | | 19.62 |
| 28820 | Analysis..... | 16.65 | | | 19.98 |
| 28834 | Analysis..... | 16.76 | | | 20.11 |
| 28847 | Analysis..... | 16.18 | | | 19.42 |
| 28852 | Analysis..... | 16.52 | | | 19.82 |
| 28855 | Analysis..... | 16.43 | | | 19.72 |
| 28857 | Analysis..... | 16.40 | | | 19.68 |
| 28864 | Analysis..... | 16.56 | | | 19.87 |
| 28865 | Analysis..... | 16.32 | | | 19.58 |
| 28887 | Analysis..... | 17.29 | | | 20.75 |
| 28911 | Analysis..... | 17.48 | | | 20.98 |
| 28932 | Analysis..... | 16.10 | | | 19.32 |
| 28948 | Analysis..... | 15.75 | | | 18.90 |
| 28985 | Analysis..... | 15.91 | | | 19.02 |
| 28995 | Analysis..... | 16.55 | | | 19.85 |
| | Swift's Kainit—Guarantee..... | | | 12.40 | 22.32 |
| 29004 | Analysis..... | | | 14.64 | 26.33 |
| | Swift's Nitrate of Soda—Guarantee..... | | 14.81 | | 74.05 |
| 28885 | Analysis..... | | 15.22 | | 76.10 |
| 28914 | Analysis..... | | 15.16 | | 75.80 |
| | Swift's Palmetto—Guarantee..... | 8.00 | 2.47 | 3.00 | 27.35 |
| 28701 | Analysis..... | 8.07 | 2.43 | 3.06 | 27.34 |
| 28752 | Analysis..... | 8.07 | 2.54 | 3.47 | 28.55 |
| 28792 | Analysis..... | 9.03 | 2.53 | 2.18 | 27.41 |
| 28858 | Analysis..... | 8.22 | 2.36 | 2.73 | 26.57 |
| 28886 | Analysis..... | 9.57 | 2.46 | 1.69 | 26.82 |
| | Swift's Red Steer—Guarantee..... | 10.00 | 2.47 | 3.00 | 29.75 |
| 28737 | Analysis..... | 11.37 | 2.19 | 1.14 | 26.64 |
| 18705 | Analysis..... | 10.19 | 2.21 | 2.85 | 28.41 |
| 28798 | Analysis..... | 9.25 | 2.50 | 2.84 | 28.71 |
| 28996 | Analysis..... | 10.47 | 2.31 | 3.02 | 29.55 |
| | Swift's Red Steer for Tomatoes—Guarantee..... | 10.00 | 2.47 | | 24.35 |
| 28699 | Analysis..... | 9.93 | 2.37 | | 23.77 |
| 28717 | Analysis..... | 10.19 | 2.44 | | 24.43 |
| 28734 | Analysis..... | 10.34 | 2.52 | | 25.01 |
| 28848 | Analysis..... | 10.44 | 2.78 | | 26.43 |
| | Swift's Red Steer Tomato Special—Guarantee..... | 10.00 | 2.47 | 1.00 | 26.15 |
| 28670 | Analysis..... | 10.68 | 2.50 | 1.25 | 27.57 |
| 28733 | Analysis..... | 10.84 | 2.43 | 1.29 | 27.48 |
| | Swift's Red Steer Truck Grower—Guarantee..... | 8.00 | 3.29 | 4.00 | 33.25 |
| 28676 | Analysis..... | 8.52 | 3.08 | 4.16 | 33.11 |
| 28718 | Analysis..... | 8.12 | 3.37 | 4.32 | 34.38 |
| 28791 | Analysis..... | 8.84 | 3.18 | 2.64 | 31.26 |
| 28931 | Analysis..... | 9.42 | 2.45 | 3.97 | 30.70 |
| | Swift's 6.58 Cottonseed Fertilizer—Guarantee..... | | 6.58 | | 32.90 |
| 28754 | Analysis..... | | 6.66 | | 33.30 |
| 28974 | Analysis..... | | 6.33 | | 31.65 |
| | Swift's Special Mixture—Guarantee..... | 10.00 | 1.65 | | 20.25 |
| 28716 | Analysis..... | 10.52 | 1.88 | | 22.02 |
| 28863 | Analysis..... | 10.31 | 1.79 | | 21.32 |
| 28878 | Analysis..... | 10.13 | 1.85 | | 21.41 |
| 28928 | Analysis..... | 10.46 | 1.83 | | 21.70 |
| | Swift's 10-1.65-1.00—Guarantee..... | 10.00 | 1.65 | 1.00 | 22.05 |
| 28753 | Analysis..... | 10.94 | 1.80 | 1.27 | 24.32 |
| 28879 | Analysis..... | 10.15 | 1.84 | 1.21 | 23.56 |
| 28912 | Analysis..... | 10.95 | 1.64 | 1.23 | 23.55 |
| | Swift's Truckers' Favorite—Guarantee..... | 8.00 | 2.47 | 1.00 | 23.75 |
| 28765 | Analysis..... | 8.49 | 2.47 | 1.28 | 24.84 |

Table 3.—Analysis of commercial fertilizers, season 1921-1922.

| Laboratory Number. | Manufacturer, Place of Business and Brand. | Phosphoric Acid Available Per Cent. | Nitrogen—Per Cent. | Potash—Per Cent. | Valuation—Per Ton. |
|--------------------|---|-------------------------------------|--------------------|------------------|--------------------|
| | Swift & Co., Harvey and Shreveport, La.—Continued. | | | | |
| | Swift's 12-1.65—Guarantee..... | 12.00 | 1.65 | | \$22.65 |
| 28678 | Analysis..... | 12.30 | 1.59 | | 22.71 |
| 28732 | Analysis..... | 12.57 | 1.65 | | 23.33 |
| 28984 | Analysis..... | 8.74 | 1.88 | | 19.89 |
| | Swift's Vegetable Grower—Guarantee..... | 8.00 | 3.29 | 2.00 | 29.65 |
| 28634 | Analysis..... | 8.35 | 3.30 | 2.16 | 30.41 |
| 28635 | Analysis..... | 8.72 | 3.44 | 2.07 | 31.39 |
| 28636 | Analysis..... | 8.18 | 3.32 | 2.26 | 30.49 |
| 28700 | Analysis..... | 8.70 | 3.05 | 1.86 | 29.04 |
| | Terrell Oil and Refining Co., Terrell, Texas.— | | | | |
| | Cottonseed Fertilizer—Guarantee..... | 1.00 | 6.50 | | 33.70 |
| 28766 | Analysis..... | 2.43 | 6.53 | | 35.57 |
| | Virginia-Carolina Chemical Co. of Delaware, Shreveport, La.— | | | | |
| | B. B. B. Beef Blood and Bone—Guarantee..... | 10.00 | 1.65 | 1.00 | 22.05 |
| 28657 | Analysis..... | 11.60 | 2.07 | 1.31 | 26.63 |
| 28694 | Analysis..... | 12.13 | 2.02 | 1.40 | 27.18 |
| 28854 | Analysis..... | 11.04 | 2.06 | 1.18 | 25.67 |
| | Georgia State Grange—Guarantee..... | 10.00 | 1.65 | 1.00 | 22.05 |
| 28933 | Analysis..... | 11.37 | 1.96 | 1.08 | 25.38 |
| 28961 | Analysis..... | 12.31 | 1.66 | 1.24 | 25.30 |
| 28966 | Analysis..... | 10.91 | 2.08 | 1.44 | 26.08 |
| 28967 | Analysis..... | 11.05 | 2.04 | 1.70 | 26.52 |
| 28972 | Analysis..... | 11.74 | 1.83 | 1.25 | 25.49 |
| | Kainit—Guarantee..... | | | 12.00 | 21.60 |
| 28672 | Analysis..... | | | 12.07 | 21.73 |
| | Muriate of Potash—Guarantee..... | | | 48.00 | 86.40 |
| 29005 | Analysis..... | | | 50.70 | 91.26 |
| | Nitrate of Soda—Guarantee..... | | 14.81 | | 74.05 |
| 28942 | Analysis..... | | 14.98 | | 74.90 |
| | Royal Cotton Boll Guano—Guarantee..... | 8.00 | 1.65 | 2.00 | 21.45 |
| 28804 | Analysis..... | 8.42 | 2.07 | 2.47 | 24.90 |
| | Royal Fruit Grower—Guarantee..... | 8.00 | 2.47 | 5.00 | 30.95 |
| 28725 | Analysis..... | 9.46 | 2.67 | 4.75 | 33.25 |
| | Royal Tomato Formula—Guarantee..... | 10.00 | 2.47 | 1.00 | 26.15 |
| 28738 | Analysis..... | 11.56 | 2.35 | 1.47 | 28.27 |
| | Scott's Gossypium Phospho—Guarantee..... | 10.00 | 1.65 | 1.50 | 22.95 |
| 28841 | Analysis..... | 10.83 | 1.54 | 2.42 | 25.06 |
| 28880 | Analysis..... | 11.32 | 2.02 | 1.82 | 26.96 |
| 28940 | Analysis..... | 11.72 | 1.88 | 1.80 | 26.74 |
| | Scott's Gossypium Phospho Special—Guarantee..... | 10.00 | 1.65 | 2.00 | 23.85 |
| 28790 | Analysis..... | 10.71 | 2.27 | 3.04 | 29.67 |
| 28838 | Analysis..... | 11.14 | 1.67 | 2.03 | 25.37 |
| 28930 | Analysis..... | 11.43 | 1.88 | 1.96 | 26.65 |
| | Scott's High Grade Acid Phosphate—Guarantee..... | 14.00 | | | 16.80 |
| 28656 | Analysis..... | 15.91 | | | 19.10 |
| | Victor Ammoniated Fertilizer—Guarantee..... | 9.00 | 2.47 | | 23.15 |
| 28693 | Analysis..... | 9.82 | 2.67 | | 25.13 |
| | V. C. C. Co.'s 16 Per Cent Acid Phosphate—Guarantee..... | 16.00 | | | 19.20 |
| 28674 | Analysis..... | 16.09 | | | 19.31 |
| 28788 | Analysis..... | 16.06 | | | 19.28 |
| 28789 | Analysis..... | 16.63 | | | 19.96 |
| 28805 | Analysis..... | 16.26 | | | 19.51 |
| 28839 | Analysis..... | 15.99 | | | 19.19 |
| 28840 | Analysis..... | 16.29 | | | 19.55 |
| 28842 | Analysis..... | 16.52 | | | 19.82 |
| 28881 | Analysis..... | 16.84 | | | 20.21 |
| 28929 | Analysis..... | 16.27 | | | 19.52 |
| 28962 | Analysis..... | 16.38 | | | 19.66 |
| 28968 | Analysis..... | 14.78 | | | 17.74 |
| 29006 | Analysis..... | 15.49 | | | 18.59 |
| | V. C. C. Co.'s Truck Grower—Guarantee..... | 8.00 | 2.06 | 6.00 | 30.70 |
| 28671 | Analysis..... | 10.32 | 2.52 | 4.95 | 33.89 |
| 29007 | Analysis..... | 9.74 | 2.12 | 4.85 | 31.02 |
| | V. C. High Grade Champion Compound—Guarantee..... | 9.00 | 3.00 | 3.00 | 31.20 |
| 28969 | Analysis..... | 11.01 | 2.62 | 2.70 | 31.17 |
| | V. C. High Grade Guano—Guarantee..... | 10.00 | 1.65 | 2.00 | 23.85 |
| 28939 | Analysis..... | 12.19 | 2.10 | 2.12 | 28.95 |
| 29008 | Analysis..... | 11.07 | 1.90 | 2.38 | 27.06 |
| | V. C. Soluble Guano—Guarantee..... | 12.00 | 1.65 | | 22.65 |
| 28673 | Analysis..... | 12.44 | 2.38 | | 26.83 |
| | V. C. XXX Special—Guarantee..... | 8.00 | 2.47 | 1.00 | 23.75 |
| 28806 | Analysis..... | 8.95 | 2.40 | 1.37 | 25.21 |

Table 4.—Registration of commercial fertilizers, season 1921-1922.

| Manufacturer, Place of Business and Brand. | Phosphoric Acid Available Per Cent. | Nitrogen—Per Cent. | Potash—Per Cent. |
|---|-------------------------------------|--------------------|------------------|
| American Cotton Oil Co., New Orleans, La.— | | | |
| ACO Special No. 833..... | 8.00 | 2.47 | 3.00 |
| ACO Special No. 1022..... | 10.00 | 1.65 | 2.00 |
| ACO Special No. 1024..... | 10.00 | 1.65 | 4.00 |
| Ammoniated Raw Bone Superphosphate and Potash..... | 10.00 | 1.65 | 1.00 |
| Black Diamond Acid Phosphate..... | 12.00 | ..... | ..... |
| Blood and Bone..... | 11.00 | 1.65 | ..... |
| Blood, Bone and Beef..... | 10.00 | 1.65 | 1.00 |
| Blood, Bone and Potash..... | 10.00 | 1.65 | 1.00 |
| Blue Rose Rice Grower..... | 12.00 | ..... | 2.00 |
| Bull Dog Acid Phosphate..... | 16.00 | ..... | ..... |
| Creole Sugar Cane Fertilizer No. 38..... | 8.00 | 2.50 | ..... |
| Creole Truck Grower..... | 8.00 | 2.50 | 1.00 |
| Crescent City Acid Phosphate..... | 12.00 | ..... | ..... |
| Cyanamid 15 Per Cent..... | ..... | 15.00 | ..... |
| Dissolved Bone and Potash 10-4..... | 10.00 | ..... | 4.00 |
| Economizer..... | 10.00 | 1.65 | 2.00 |
| Excelsior..... | 10.00 | 1.65 | 2.00 |
| Farmers' Cornucopia..... | 12.00 | 2.47 | 2.00 |
| Golden Guano..... | 10.00 | 1.65 | 1.00 |
| Goldsmith's Improved Mixture..... | 10.00 | 1.65 | 1.00 |
| Honduras Rice Grower..... | 12.00 | ..... | 4.00 |
| Lone Star Blood Mixture..... | 10.00 | 0.82 | 1.00 |
| Lone Star Meal Mixture..... | 10.00 | 0.82 | 1.00 |
| Louisiana Plant Cane Grower..... | 6.00 | 3.30 | ..... |
| Louisiana Rice Grower..... | 10.00 | ..... | 2.00 |
| Louisiana Stubble Cane Grower..... | 4.00 | 4.94 | ..... |
| Manure Salts 20 Per Cent..... | ..... | ..... | 20.00 |
| Meal Ammoniated Superphosphate..... | 11.00 | 1.65 | ..... |
| Meal Ammoniated Superphosphate and Potash..... | 10.00 | 1.65 | 1.00 |
| Muriate of Potash 48 Per Cent..... | ..... | ..... | 48.00 |
| New Orleans Acid Phosphate..... | 14.00 | ..... | ..... |
| Nitrate of Soda..... | ..... | 15.00 | ..... |
| Nonpareil..... | 10.00 | 2.47 | 3.00 |
| Special Sugar Cane Grower No. 67..... | 7.00 | 5.00 | ..... |
| Supreme Acid Phosphate..... | 18.00 | ..... | ..... |
| Texas Guano..... | 10.00 | 1.65 | ..... |
| Texas Onion Grower..... | 6.00 | 3.30 | 6.00 |
| Truck Grower..... | 6.00 | 3.30 | 1.00 |
| Vegetable Grower..... | 6.00 | 2.47 | 4.00 |
| Arkansas Fertilizer Co., Little Rock, Ark.— | | | |
| White Diamond Acid Phosphate..... | 16.00 | ..... | ..... |
| White Diamond Ammoniated Bone Superphosphate..... | 9.00 | 1.65 | 2.00 |
| White Diamond Arkansas Standard Fertilizer..... | 10.00 | 1.65 | 1.00 |
| White Diamond Blood and Bone Fertilizer..... | 11.00 | 1.50 | 1.50 |
| White Diamond Blood, Bone and Potash..... | 12.00 | 2.00 | 1.50 |
| White Diamond 'Bove All Acid Phosphate..... | 18.00 | ..... | ..... |
| White Diamond Early Potato and Truck Fertilizer..... | 8.00 | 2.50 | 4.00 |
| White Diamond "Gro-Fast" Fertilizer..... | 8.00 | 1.65 | 2.00 |
| White Diamond High Grade Truck Fertilizer..... | 8.00 | 3.20 | 6.00 |
| White Diamond Kali Super-Phosphate..... | 11.00 | ..... | 3.00 |
| White Diamond New South..... | 10.00 | 1.65 | ..... |
| White Diamond "Prize Winner"..... | 10.00 | 2.50 | 3.00 |
| White Diamond Queen of the South..... | 12.00 | 1.65 | ..... |
| White Diamond Raw Bone Meal Fertilizer..... | *20.00 | 3.29 | ..... |
| White Diamond Southern King..... | 12.00 | 2.00 | 2.00 |
| White Diamond Southern Queen Fertilizer..... | 10.00 | 1.65 | 2.00 |
| White Diamond Southern Standard Fertilizer..... | 10.00 | 1.65 | 1.50 |
| White Diamond 20th Century Fertilizer..... | 9.00 | 1.65 | 2.00 |
| White Diamond Vegetable Fertilizer..... | 7.50 | 2.00 | 3.00 |
| Armour Fertilizer Works, Houston, Fort Worth, Texas, New Orleans, La.— | | | |
| Armour's Big Crop African Cotton Grower..... | 9.00 | 2.47 | 3.00 |
| Armour's Big Crop Best Phosphate..... | 18.00 | ..... | ..... |
| Armour's Big Crop Champion Meal Mixture..... | 10.00 | 1.65 | 2.00 |
| Armour's Big Crop Cotton Special No. 1250..... | 12.00 | 4.11 | ..... |
| Armour's Big Crop Farmers' Favorite..... | 10.00 | 1.65 | 2.00 |
| Armour's Big Crop Fertilizer No. 836..... | 8.00 | 2.47 | 6.00 |
| Armour's Big Crop Fertilizer No. 843..... | 8.00 | 3.29 | 3.00 |
| Armour's Big Crop Fertilizer No. 844..... | 8.00 | 3.29 | 4.00 |

*Total Phosphoric Acid.

Table 4.—Registration of commercial fertilizers, season 1921-1922.

| Manufacturer, Place of Business and Brand. | Phosphoric Acid— Available Per Cent. | Nitrogen—Per Cent. | Potash—Per Cent. |
|---|--|-----------------------|---------------------|
| Armour Fertilizer Works, Houston, Fort Worth, Texas, New Orleans, La.—Continued. | | | |
| Armour's Big Crop Fertilizer No. 1033..... | 10.00 | 2.47 | 3.00 |
| Armour's Big Crop Kainit..... | | | 14.00 |
| Armour's Big Crop Manure Salts..... | | | 20.00 |
| Armour's Big Crop Muriate of Potash..... | | | 50.00 |
| Armour's Big Crop Nitrate of Soda..... | | 14.81 | |
| Armour's Big Crop Onion Fertilizer No. 644..... | 6.00 | 3.29 | 4.00 |
| Armour's Big Crop Onion Fertilizer No. 834..... | 8.00 | 2.47 | 4.00 |
| Armour's Big Crop Onion Fertilizer No. 844..... | 8.00 | 3.29 | 4.00 |
| Armour's Big Crop Onion Fertilizer No. 846..... | 8.00 | 3.29 | 6.00 |
| Armour's Big Crop Onion Fertilizer No. 860..... | 8.00 | 4.94 | |
| Armour's Big Crop Onion Fertilizer No. 1034..... | 10.00 | 2.47 | 4.00 |
| Armour's Big Crop Fertilizer No. 1035..... | 10.00 | 2.47 | 5.00 |
| Armour's Big Crop Onion Fertilizer No. 1040..... | 10.00 | 3.29 | |
| Armour's Big Crop Onion Fertilizer No. 1042..... | 10.00 | 3.29 | 2.00 |
| Armour's Big Crop Onion Fertilizer No. 1044..... | 10.00 | 3.29 | 4.00 |
| Armour's Big Crop Phosphate and Potash No. 104..... | 10.00 | | 4.00 |
| Armour's Big Crop Phosphate and Potash No. 122..... | 12.00 | | 2.00 |
| Armour's Big Crop Phosphate and Potash No. 124..... | 12.00 | | 4.00 |
| Armour's Big Crop Producer..... | 12.00 | 1.65 | |
| Armour's Big Crop Raw Bone Meal..... | *22.00 | 3.70 | |
| Armour's Big Crop Shield Phosphate..... | 14.00 | | |
| Armour's Big Crop Star Phosphate..... | 16.00 | | |
| Armour's Big Crop Strawberry King..... | 10.00 | 2.47 | 4.00 |
| Armour's Big Crop Sulphate of Ammonia..... | | 20.58 | |
| Armour's Big Crop Texas Trucker..... | 8.00 | 2.47 | 3.00 |
| Armour's Big Crop Texas Vegetable Grower..... | 9.00 | 2.05 | 3.00 |
| Armour's Big Crop Tomato Grower..... | 8.00 | 2.47 | 3.00 |
| Armour's Big Crop Truck Special..... | 7.00 | 4.11 | 6.00 |
| Armour's Corn King..... | 8.00 | 2.47 | 2.00 |
| Armour's Cotton Fertilizer No. 1020..... | 10.00 | 1.65 | |
| Armour's Crop Grower..... | 12.00 | 1.65 | |
| Armour's Farmers' Choice..... | 10.00 | 1.65 | 1.00 |
| Armour's Fertilizer No. 1120..... | 11.00 | 1.65 | |
| Armour's Gold Medal..... | 9.50 | 1.65 | 1.50 |
| Armour's Grain Grower..... | 8.00 | 1.65 | 2.00 |
| Armour's Helmet Phosphate..... | 12.00 | | |
| Armour's Kainit..... | | | 12.40 |
| Armour's King Cotton..... | 8.00 | 1.65 | 2.00 |
| Armour's Meal and Phosphate Mixture..... | 10.00 | 1.65 | |
| Armour's Meal Trucker..... | 10.00 | 2.47 | |
| Armour's Onion Fertilizer No. 533..... | 5.33 | 4.38 | |
| Armour's Onion Fertilizer No. 632..... | 6.00 | 2.47 | 2.00 |
| Armour's Onion Fertilizer No. 642..... | 6.00 | 3.29 | 2.00 |
| Armour's Onion Fertilizer No. 643..... | 6.00 | 3.29 | 3.00 |
| Armour's Phosphate and Meal Formula..... | 11.00 | 1.65 | |
| Armour's Phosphate and Potash No. 102..... | 10.00 | | 2.00 |
| Armour's Phosphate and Tankage..... | 10.00 | 1.65 | |
| Armour's Rice Grower No. 1020..... | 10.00 | 1.65 | |
| Armour's Rice King..... | 8.00 | 1.65 | 2.00 |
| Armour's Royal Mixture..... | 10.00 | 1.65 | 1.00 |
| Armour's Special Farm Mixture..... | 8.00 | 1.65 | 2.00 |
| Armour's Special Tankage Mixture..... | 9.50 | 1.65 | 1.50 |
| Armour's Syrup Cane Grower..... | 7.00 | 4.94 | |
| Armour's Tankage Truck Grower..... | 10.00 | 2.47 | |
| Fertilizer No. 460..... | 4.00 | 4.94 | |
| G. L. Barber, Jacksonville, Texas.— | | | |
| Barber's 16 Per Cent Acid Phosphate..... | 16.00 | | |
| The Barrett Co., 17 Battery Place, New York, N. Y.— | | | |
| Arcadian Sulphate of Ammonia..... | | 20.75 | |
| Bryan Cotton Oil and Fertilizer Co., Bryan, Texas.— | | | |
| Star Brand Cotton and Corn Fertilizer..... | 11.50 | 1.80 | |
| Star Brand Phospho Special Fertilizer..... | 11.00 | 2.00 | |
| Star Brand Potato Fertilizer..... | 8.00 | 3.50 | |
| Star Brand 16 Per Cent Acid Phosphate..... | 16.00 | | |
| Chas. A. R. Campbell, M. D., San Antonio, Texas.— | | | |
| Bat Roost Guano..... | 3.00 | 10.00 | |

*Total Phosphoric Acid.

Table 4.—Registration of commercial fertilizers, season 1921-1922.

| Manufacturer, Place of Business and Brand. | Phosphoric Acid Available Per Cent. | Nitrogen—Per Cent. | Potash—Per Cent. |
|--|-------------------------------------|--------------------|------------------|
| Commercial Fertilizer Co., North Little Rock, Ark.— | | | |
| Commercial Acid Phosphate..... | 16.00 | | |
| Commercial Arkahoma Special..... | 9.00 | 1.65 | 2.00 |
| Commercial Early Potato and Truck..... | 8.00 | 2.50 | 4.00 |
| The Cudahy Packing Co., Chicago, Ill.— | | | |
| Blue Ribbon Fertilizer (Half & Half-1 ½-20)..... | 13.00 | 1.23 | |
| Blue Ribbon Fertilizer (Steamed Bone Meal)..... | *24.00 | 2.47 | |
| Earp-Thomas Cultures Corporation, 80 Lafayette St., New York City, N. Y.— | | | |
| Farmogerm..... | | | |
| Stimulant Tablets..... | 12.00 | 11.00 | 15.00 |
| East Texas Fertilizer Co., Tyler, Texas.— | | | |
| Cotton Seed Fertilizer..... | 1.00 | 6.00 | 1.00 |
| 16 Per Cent Acid Phosphate..... | 16.00 | | |
| Fidelity Chemical Corporation, Houston, Texas.— | | | |
| Fidelity Cotton Special Fertilizer..... | 10.00 | 1.65 | 2.00 |
| Fidelity Cotton Special No. 2 Fertilizer..... | 10.00 | 1.65 | 1.50 |
| Fidelity Cotton Standard Fertilizer..... | 8.00 | 2.06 | 1.50 |
| Fidelity 14 Per Cent Acid Phosphate..... | 14.00 | | |
| Fidelity Kainit..... | | | 12.00 |
| Fidelity Non-Potassic Cotton Grower Fertilizer..... | 10.00 | 2.00 | |
| Fidelity Non-Potassic Vegetable Fertilizer..... | 12.00 | 2.47 | |
| Fidelity Peerless Trucker Fertilizer..... | 8.00 | 2.47 | 5.00 |
| Fidelity Potato Special Fertilizer..... | 7.00 | 2.06 | 3.00 |
| Fidelity Regal Compound Fertilizer..... | 10.00 | | 4.00 |
| Fidelity Rice Planter Fertilizer..... | 12.00 | | 2.00 |
| Fidelity 16 Per Cent Acid Phosphate..... | 16.00 | | |
| Fidelity Special Trucker Fertilizer..... | 7.00 | 2.47 | 2.00 |
| Fidelity Strawberry Special Fertilizer..... | 6.00 | 2.47 | 5.00 |
| Fidelity Tomato Special Fertilizer..... | 10.00 | 2.47 | 1.50 |
| Gate City Fertilizer Co., Texarkana, Ark.— | | | |
| Red Ball Acid Phosphate..... | 16.00 | | |
| Red Ball Ammoniated Superphosphate..... | 12.00 | 1.65 | |
| Red Ball Arkahoma Special..... | 9.00 | 1.65 | 2.00 |
| Red Ball Blood and Bone..... | 11.00 | 1.50 | 1.50 |
| Red Ball Blood, Bone and Potash..... | 12.00 | 2.00 | 1.50 |
| Red Ball Complete Fertilizer..... | 10.00 | 1.65 | 1.00 |
| Red Ball Cotton Grower..... | 9.00 | 1.65 | 2.00 |
| Red Ball Diversified Cropper's..... | 10.00 | 1.65 | 2.00 |
| Red Ball Early Potato and Truck..... | 8.00 | 2.50 | 4.00 |
| Red Ball Four States Standard..... | 11.00 | 1.65 | |
| Red Ball "Old Reliable" Fertilizer..... | 8.00 | 1.65 | 2.00 |
| Red Ball "Old Time" Vegetable Grower..... | 7.50 | 2.00 | 3.00 |
| Red Ball Phosphate and Potash..... | 11.00 | | 3.00 |
| Red Ball Prize Winner..... | 10.00 | 2.47 | |
| Red Ball "Soluble Bone Fertilizer"..... | 10.00 | 1.65 | |
| Henderson Cotton Oil and Gin Co., Henderson, Texas.— | | | |
| Henderson Acid Phosphate..... | 16.00 | | |
| Henderson Half & Half..... | 8.70 | 3.50 | |
| Henderson Staple..... | 10.00 | 2.00 | |
| Hope Fertilizer Co., Hope, Ark.— | | | |
| Blood and Bone Cantaloupe Fertilizer..... | 8.00 | 3.00 | 1.00 |
| Blood and Bone Corn Grower..... | 12.00 | 1.65 | |
| Blood and Bone Cotton Grower..... | 10.00 | 1.65 | 1.00 |
| Blood and Bone Extra Cotton Grower..... | 10.00 | 1.65 | 2.00 |
| Blood and Bone Hempstead Trucker..... | 8.00 | 3.00 | |
| Blood and Bone Hope Standard..... | 11.00 | 1.65 | |
| Blood and Bone No. 8..... | 9.00 | 1.65 | 2.00 |
| Blood and Bone No. 9..... | 9.00 | 1.65 | 3.00 |
| Blood and Bone No. 12..... | 10.00 | 1.65 | |
| Blood and Bone No. 14..... | 8.00 | 3.00 | 4.00 |
| Blood and Bone Pride of Dallas..... | 10.00 | 4.00 | 4.00 |
| Blood and Bone Texas Special..... | 10.00 | 2.50 | |
| Blood and Bone Trucker..... | 8.00 | 2.50 | 1.00 |
| Cotto Phos..... | 8.50 | 3.30 | 1.00 |

*Total Phosphoric Acid.

Table 4.—Registration of commercial fertilizers, season 1921-1922.

| Manufacturer, Place of Business and Brand. | Phosphoric Acid Available Per Cent. | Nitrogen—Per Cent. | Potash—Per Cent. |
|---|-------------------------------------|--------------------|------------------|
| Hope Fertilizer Works, Hope, Ark.—Continued.— | | | |
| Foster's Favorite Formula | 8.00 | 4.00 | 6.00 |
| Hempstead Trucker | 8.00 | 3.00 | |
| Hope Cantaloupe Fertilizer | 8.00 | 3.00 | 1.00 |
| Hope Fertilizer No. 8 | 9.00 | 1.65 | 2.00 |
| Hope Fertilizer No. 9 | 9.00 | 1.65 | 3.00 |
| Hope Fertilizer No. 10 | 11.00 | 1.65 | |
| Hope Fertilizer No. 14 | 8.00 | 3.00 | 4.00 |
| Hope Fertilizer No. 15 | 10.00 | | 2.00 |
| Hope Fertilizer No. 16 | 10.00 | | 4.00 |
| Hope Fertilizer No. 17 | 10.00 | 3.00 | 4.00 |
| Hope Hustler | 10.00 | 1.65 | |
| Hope Meal Mixture | 10.00 | 2.50 | |
| Hope Standard | 11.00 | 1.65 | |
| Our Corn Grower | 12.00 | 1.65 | |
| Our Cotton Grower | 10.00 | 1.65 | 1.00 |
| Our Extra Cotton Grower | 10.00 | 1.65 | 2.00 |
| Our Potato Grower | 8.00 | 2.00 | 6.00 |
| Ozan Trucker | 8.00 | 2.50 | 1.00 |
| Pride of Dallas | 10.00 | 4.00 | 4.00 |
| Stork Brand Acid Phosphate 18 Per Cent. | 18.00 | | |
| Stork Brand Acid Phosphate 16 Per Cent. | 16.00 | | |
| Stork Brand Nitrate of Soda | | 15.00 | |
| Houston County Oil Mill and Manufacturing Co., Crockett, Texas.— | | | |
| Crockett Compound | 9.00 | 3.50 | 1.00 |
| Crockett Cotton Standard | 10.25 | 2.00 | 2.00 |
| Crockett Phosphate Meal Mixture | 11.00 | 1.65 | |
| Crockett 16 Per Cent Acid Phosphate | 16.00 | | |
| Houston Packing Co., Houston, Texas.— | | | |
| Blood and Bone | *14.50 | 5.60 | |
| Ground Raw Bone | *23.00 | 3.70 | |
| Jefferson Oil Co., Jefferson, Texas.— | | | |
| Jefferson Acid Phosphate | 16.00 | | |
| Longview Cotton Oil Co., Longview, Texas.— | | | |
| Longview Acid Phosphate | 16.00 | | |
| Longview Cotton Fertilizer | 11.00 | 1.65 | 1.50 |
| Longview Corn and Potato Grower | 8.00 | 3.00 | 3.00 |
| Longview Supreme Cotton Grower | 10.00 | 2.00 | 2.00 |
| Longview Tomato Grower | 9.00 | 2.50 | 2.00 |
| Jno. Marbach, New Braunfels, Texas.— | | | |
| Bat Guano | 3.50 | 9.00 | |
| Marshall Cotton Oil Co., Marshall, Texas. | | | |
| Harrison County Special | 12.00 | 1.65 | |
| Marshall Acid Phosphate | 16.00 | | |
| Marshall Corn and Potato Special | 8.75 | 2.75 | 2.50 |
| Marshall Cotton Grower Special | 10.00 | 2.00 | 2.00 |
| Marshall Potash Salts | | | 20.00 |
| Mayfield-Alford Co., Henderson, Texas.— | | | |
| Alford's Nuf-Ced 16 Per Cent Acid Phosphate | 16.00 | | |
| Meridian Fertilizer Factory, Shreveport, La.— | | | |
| Caddo Cotton | 9.35 | 1.90 | 1.00 |
| Caddo Queen | 12.00 | 1.65 | |
| Caddo Special | 6.00 | 2.47 | 7.00 |
| Caddo Vegetable | 8.00 | 3.30 | 4.00 |
| Kainit | | | 12.00 |
| Meridian Blood and Bone | 10.00 | 1.65 | 1.00 |
| Meridian Cane Special No. 1 | 4.00 | 5.35 | |
| Meridian Cantaloupe Special | 8.00 | 2.47 | 1.00 |
| Meridian Corn Club Special | 7.50 | 2.47 | 1.00 |
| Meridian Corn Grower | 7.50 | 2.88 | 1.00 |
| Meridian Cotton and Corn Special | 9.00 | 2.47 | 3.00 |
| Meridian Easy Driller Phosphate | 16.00 | | |
| Meridian Farm Special | 10.00 | 1.65 | |
| Meridian Golden Harvester | 10.00 | 3.30 | 4.00 |

*Total Phosphoric Acid.

Table 4.—Registration of commercial fertilizers, season 1921-1922.

| Manufacturer, Place of Business and Brand. | Phosphoric Acid Available Per Cent. | Nitrogen—Per Cent. | Potash—Per Cent. |
|--|-------------------------------------|--------------------|------------------|
| Meridian Fertilizer Factory, Shreveport, La.—Continued. | | | |
| Meridian Golden West..... | 10.00 | 2.00 | 2.00 |
| Meridian Great Western..... | 12.00 | 1.65 | 2.00 |
| Meridian Ham Bone Guano..... | 10.00 | 1.65 | 1.50 |
| Meridian Home Mixture..... | 10.00 | 1.65 | 1.00 |
| Meridian Improved Meal Compound..... | 8.50 | 2.88 | ..... |
| Meridian Meal Mixture..... | 10.00 | 1.65 | 1.00 |
| Meridian Melon Grower..... | 8.50 | 2.47 | ..... |
| Meridian Nitrated Bone and Potash..... | 10.00 | 1.65 | 2.00 |
| Meridian Perfection Acid Phosphate..... | 18.00 | ..... | ..... |
| Meridian Perfection Blood Compound..... | 10.00 | 2.47 | 3.00 |
| Meridian Perfection Cotton and Corn..... | 12.00 | 2.47 | ..... |
| Meridian Perfection Cotton Formula..... | 11.00 | 2.47 | ..... |
| Meridian Perfection Meal Compound..... | 10.00 | 2.47 | 3.00 |
| Meridian Perfection Potash Formula..... | 12.00 | ..... | 4.00 |
| Meridian Potash Compound..... | 10.00 | ..... | 4.00 |
| Meridian Potash Mixture..... | 12.00 | ..... | 2.00 |
| Meridian Potato Grower..... | 8.00 | 3.30 | ..... |
| Meridian Potato Special..... | 8.00 | 3.30 | 2.00 |
| Meridian Prolific Wonder..... | 12.00 | 2.00 | 2.00 |
| Meridian Rawbone Mixture..... | 10.00 | 1.65 | 1.00 |
| Meridian Rice Grower..... | 10.00 | ..... | 2.00 |
| Meridian Soluble Guano..... | 10.00 | 1.65 | 1.50 |
| Meridian Southern Acid Phosphate..... | 14.00 | ..... | ..... |
| Meridian Southern Standard..... | 10.00 | 3.00 | 2.00 |
| Meridian Special Cotton Formula..... | 10.00 | 1.65 | ..... |
| Meridian Special Meal Compound..... | 12.00 | 2.00 | ..... |
| Meridian Special Mixture..... | 14.00 | 2.00 | ..... |
| Meridian Special Top Dressing..... | 5.00 | 4.25 | 2.00 |
| Meridian Special Truck Formula..... | 6.00 | 3.00 | 4.00 |
| Meridian Standard Cotton and Corn..... | 9.35 | 1.90 | 1.00 |
| Meridian Star..... | 10.00 | 1.65 | 1.00 |
| Meridian Tankage Compound..... | 8.50 | 2.47 | ..... |
| Meridian Tomato Special..... | 10.00 | 2.47 | 1.00 |
| Meridian Truck Grower..... | 8.00 | 3.00 | 3.00 |
| Meridian Truckers' Special..... | 9.00 | 1.65 | 2.00 |
| Meridian Vegetable Grower..... | 8.00 | 2.47 | 5.00 |
| Nitrate of Soda..... | ..... | 15.00 | ..... |
| Texas Special..... | 10.00 | 2.27 | ..... |
| Union Special Acid Phosphate..... | 16.00 | ..... | ..... |
| Weevil Beater Guano..... | 10.00 | 1.65 | 1.00 |
| H. K. Mulford Co., Philadelphia, Pa.— | | | |
| Mulford Cultures for Legumes..... | ..... | ..... | ..... |
| New Boston Cotton Oil Co., New Boston, Texas.— | | | |
| Acid Phosphate..... | 16.00 | ..... | ..... |
| Nitrate Agencies Co. of Texas, Houston, Texas.— | | | |
| Acid Phosphate..... | 16.00 | ..... | ..... |
| Imported Ground Bone..... | *23.00 | 2.50 | ..... |
| Kainit..... | ..... | ..... | 12.40 |
| Muriate of Potash..... | ..... | ..... | 48.00 |
| Nitrapo..... | ..... | 15.00 | 15.00 |
| Nitrate of Soda..... | ..... | 15.00 | ..... |
| Sulphate of Potash..... | ..... | ..... | 47.00 |
| Palestine Oil and Manufacturing Co., Palestine, Texas.— | | | |
| Acid Phosphate 14 Per Cent..... | 14.00 | ..... | ..... |
| Acid Phosphate 16 Per Cent..... | 16.00 | ..... | ..... |
| Cotton Seed Meal Fertilizer..... | 1.00 | 6.88 | 1.00 |
| Palestine Corn and Vegetable Fertilizer..... | 8.00 | 3.50 | 1.00 |
| Palestine Cotton Grower..... | 11.00 | 1.65 | ..... |
| Sandy Land Vegetable Fertilizer..... | 8.00 | 2.75 | 2.00 |
| Pelican Fertilizer Works, Shreveport, La.— | | | |
| Kainit..... | ..... | ..... | 12.00 |
| Muriate of Potash..... | ..... | ..... | 50.00 |
| Nitrate of Soda..... | ..... | 15.00 | ..... |
| Pelican Blood and Bone..... | 10.00 | 1.65 | 1.00 |
| Pelican Corn Grower..... | 8.00 | 2.47 | 1.00 |

*Total Phosphoric Acid.

Table 4.—Registration of commercial fertilizers, season 1921-1922.

| Manufacturer, Place of Business and Brand. | Phosphoric Acid Available Per Cent. | Nitrogen—Per Cent. | Potash—Per Cent. |
|--|-------------------------------------|--------------------|------------------|
| Pelican Fertilizer Works, Shreveport, La.—Continued. | | | |
| Pelican Cotton and Corn..... | 8.00 | 2.00 | 2.00 |
| Pelican Cotton Grower..... | 10.00 | 1.65 | ..... |
| Pelican Cotton Producer..... | 12.00 | 1.65 | ..... |
| Pelican Cotton Special..... | 10.00 | 1.65 | 2.00 |
| Pelican Favorite Cotton Grower..... | 9.35 | 1.90 | 1.00 |
| Pelican Fish Bone Fertilizer..... | 10.00 | 1.65 | 2.00 |
| Pelican Fish Formula..... | 10.00 | 1.65 | 1.00 |
| Pelican Golden West..... | 10.00 | 1.65 | 1.00 |
| Pelican High Grade..... | 9.00 | 2.47 | 3.00 |
| Pelican Meal Compound..... | 10.00 | 1.65 | 1.00 |
| Pelican Potash and Bone..... | 12.00 | ..... | 2.00 |
| Pelican Potash and Superphosphate..... | 10.00 | ..... | 4.00 |
| Pelican Potato Grower..... | 8.00 | 3.30 | ..... |
| Pelican Potato Special..... | 8.00 | 3.30 | 2.00 |
| Pelican Rice Formula..... | 10.00 | ..... | 2.00 |
| Pelican Rice Phosphate..... | 16.00 | ..... | ..... |
| Pelican Special Formula..... | 10.00 | 1.65 | ..... |
| Pelican Special Phosphate..... | 16.00 | ..... | ..... |
| Pelican Standard Grade Phosphate..... | 14.00 | ..... | ..... |
| Pelican Tomato Special..... | 10.00 | 2.47 | 1.00 |
| Pelican Truck Grower..... | 10.00 | 2.47 | ..... |
| Pelican Vegetable Grower..... | 8.00 | 2.47 | 4.00 |
| Planters Fertilizer and Chemical Co., Houston, Fort Worth, Texas, New Orleans, La.— | | | |
| Planters' Plow Brand Ammoniated Superphosphate..... | 10.00 | 1.65 | 2.00 |
| Planters' Plow Brand Champion Meal Mixture..... | 10.00 | 1.65 | 2.00 |
| Planters' Plow Brand Corn Fertilizer..... | 8.00 | 2.47 | 2.00 |
| Planters' Plow Brand Cotton Fertilizer No. 1020..... | 10.00 | 1.65 | ..... |
| Planters' Plow Brand Crescent Phosphate..... | 12.00 | ..... | ..... |
| Planters' Plow Brand Crop Grower..... | 12.00 | 1.65 | ..... |
| Planters' Plow Brand Crop Producer..... | 12.00 | 1.65 | ..... |
| Planters' Plow Brand 18 Per Cent Acid Phosphate..... | 18.00 | ..... | ..... |
| Planters' Plow Brand Farmers' Champion..... | 10.00 | 1.65 | 1.00 |
| Planters' Plow Brand Farm Special..... | 8.00 | 1.65 | 2.00 |
| Planters' Plow Brand Fertilizer No. 1035..... | 10.00 | 2.47 | 5.00 |
| Planters' Plow Brand Fertilizer No. 1120..... | 11.00 | 1.65 | ..... |
| Planters' Plow Brand 14 Per Cent Acid Phosphate..... | 14.00 | ..... | ..... |
| Planters' Plow Brand Golden Mixture..... | 9.50 | 1.65 | 1.50 |
| Planters' Plow Brand Imperial Cotton Mixture..... | 8.00 | 1.65 | 2.00 |
| Planters' Plow Brand Imperial Grain Grower..... | 8.00 | 1.65 | 2.00 |
| Planters' Plow Brand Imperial Rice Mixture..... | 8.00 | 1.65 | 2.00 |
| Planters' Plow Brand Imperial Truck Mixture..... | 8.00 | 2.47 | 3.00 |
| Planters' Plow Brand Kainit..... | ..... | ..... | 12.40 |
| Planters' Plow Brand Kainit..... | ..... | ..... | 14.00 |
| Planters' Plow Brand Magic Strawberry Producer..... | 10.00 | 2.47 | 4.00 |
| Planters' Plow Brand Meal and Phosphate Mixture..... | 10.00 | 1.65 | ..... |
| Planters' Plow Brand Meal Trucker..... | 10.00 | 2.47 | ..... |
| Planters' Plow Brand Nitrate of Soda..... | ..... | 14.81 | ..... |
| Planters' Plow Brand Old Standard Superphosphate..... | 9.50 | 1.65 | 1.50 |
| Planters' Plow Brand Phosphate and Meal Formula..... | 11.00 | 1.65 | ..... |
| Planters' Plow Brand Phosphate and Potash No. 102..... | 10.00 | ..... | 2.00 |
| Planters' Plow Brand Phosphate and Potash No. 104..... | 10.00 | ..... | 4.00 |
| Planters' Plow Brand Phosphate and Potash No. 122..... | 12.00 | ..... | 2.00 |
| Planters' Plow Brand Phosphate and Potash No. 124..... | 12.00 | ..... | 4.00 |
| Planters' Plow Brand Raw Bone Meal..... | *22.00 | 3.70 | ..... |
| Planters' Plow Brand Rice Grower No. 1020..... | 10.00 | 1.65 | ..... |
| Planters' Plow Brand 16 Per Cent Acid Phosphate..... | 16.00 | ..... | ..... |
| Planters' Plow Brand Sulphate of Ammonia..... | ..... | 20.58 | ..... |
| Planters' Plow Brand Syrup Cane Fertilizer..... | 7.00 | 4.94 | ..... |
| Planters' Plow Brand Tankage Mixture..... | 10.00 | 1.65 | 1.00 |
| Planters' Plow Brand Tankage Trucker..... | 10.00 | 2.47 | ..... |
| Planters' Plow Brand Texas Vegetable Grower..... | 7.00 | 2.47 | 3.50 |
| Planters' Plow Brand Tomato Fertilizer..... | 8.00 | 2.47 | 3.00 |
| Rosenthal Packing Co., Galveston, Texas.— | | | |
| Blood and Bone Tankage..... | * 9.00 | 7.25 | ..... |
| Shreveport Fertilizer Works, Shreveport, La.— | | | |
| Lion Blood and Bone..... | 10.00 | 1.65 | 1.00 |
| Lion Corn Food..... | 8.00 | 2.50 | 1.00 |

*Total Phosphoric Acid.

Table 4.—Registration of commercial fertilizers, season 1921-1922.

| Manufacturer, Place of Business and Brand. | Phosphoric Acid Available Per Cent. | Nitrogen—Per Cent. | Potash—Per Cent. |
|--|-------------------------------------|--------------------|------------------|
| Shreveport Fertilizer Works, Shreveport, La.—Continued. | | | |
| Lion Cotton Meal Mixture..... | 10.00 | 1.65 | 1.00 |
| Lion Georgia Special..... | 8.00 | 3.00 | 3.00 |
| Lion Gold Coin Guano..... | 10.00 | 1.65 | 2.00 |
| Lion Meal Formula..... | 10.00 | 1.65 | ..... |
| Lion Success Mixture..... | 11.00 | 1.65 | ..... |
| Lion Superfine Acid Phosphate..... | 18.00 | ..... | ..... |
| Lion Tomato Special..... | 9.00 | 2.50 | 1.00 |
| Lion Truck Grower..... | 8.00 | 2.00 | 4.00 |
| Lion Extragood Acid Phosphate..... | 16.00 | ..... | ..... |
| Lion Veribest..... | 11.00 | 3.00 | 2.00 |
| Nitrate of Soda..... | ..... | 14.50 | ..... |
| Southern Soil Improvement Co., Inc., Dallas, Texas.— | | | |
| Super Valu Lawn Dressing..... | 9.00 | 7.00 | 5.00 |
| Stauffer Chemical Co. of Texas, Houston, Texas.— | | | |
| Buffalo Brand Specially Prepared Agricultural Sulphur..... | ..... | ..... | ..... |
| Sulphur Springs Acid and Fertilizer Co., Sulphur Springs, Texas.— | | | |
| Acid Phosphate..... | 16.00 | ..... | ..... |
| Pates Superior..... | 8.00 | 3.00 | 3.00 |
| Perfection Fertilizer..... | 8.00 | 2.00 | 2.00 |
| Plantation Fertilizer..... | 11.00 | 1.65 | ..... |
| Planters' Special Fertilizer..... | 8.00 | 3.00 | ..... |
| Standard Cotton Fertilizer..... | 10.00 | 2.00 | ..... |
| Standard Fertilizer..... | 10.00 | 1.65 | 1.00 |
| Swift & Co., Shreveport and Harvey, La.— | | | |
| Swift's Acid Phosphate Fertilizer 14 Per Cent..... | 14.00 | ..... | ..... |
| Swift's Acid Phosphate Fertilizer 12 Per Cent..... | 12.00 | ..... | ..... |
| Swift's Ammoniated Raw Bone Superphosphate..... | 9.50 | 1.65 | 1.50 |
| Swift's Blood, Bone and Potash..... | 9.50 | 3.29 | 7.00 |
| Swift's Bone Meal Fertilizer..... | *29.00 | 1.86 | ..... |
| Swift's Eagle..... | 10.00 | 1.65 | 2.00 |
| Swift's 11-1.65-0..... | 11.00 | 1.65 | ..... |
| Swift's 5.76 Cotton Seed Fertilizer..... | ..... | 5.76 | ..... |
| Swift's High Grade Acid Phosphate Fertilizer 18 Per Cent..... | 18.00 | ..... | ..... |
| Swift's High Grade Acid Phosphate Fertilizer 16 Per Cent..... | 16.00 | ..... | ..... |
| Swift's Kainit..... | ..... | ..... | 12.40 |
| Swift's Manure Salts..... | ..... | ..... | 20.00 |
| Swift's Muriate of Potash..... | ..... | ..... | 50.00 |
| Swift's 9-1.65-2..... | 9.00 | 1.65 | 2.00 |
| Swift's Nitrate of Soda..... | ..... | 14.81 | ..... |
| Swift's Onion Grower..... | 7.00 | 3.70 | 3.00 |
| Swift's Palmetto..... | 8.00 | 2.47 | 3.00 |
| Swift's Raw Bone Meal..... | *22.90 | 3.70 | ..... |
| Swift's Red Steer..... | 10.00 | 2.47 | 3.00 |
| Swift's Red Steer Cotton Grower..... | 12.00 | 1.65 | 2.00 |
| Red Steer for Onions..... | 7.00 | 3.70 | ..... |
| Swift's Red Steer for Rice..... | 10.00 | ..... | 2.00 |
| Swift's Red Steer for Strawberries..... | 10.00 | 2.47 | 5.00 |
| Swift's Red Steer for Tomatoes 10-2.47-0..... | 10.00 | 2.47 | ..... |
| Swift's Red Steer for Truck..... | 8.00 | 3.29 | ..... |
| Swift's Red Steer Lawn Special..... | 7.00 | 4.94 | 2.00 |
| Swift's Red Steer Tomato Grower..... | 7.00 | 4.10 | 5.00 |
| Swift's Red Steer Tomato Special..... | 10.00 | 2.47 | 1.00 |
| Swift's Red Steer Truck Grower..... | 8.00 | 3.29 | 4.00 |
| Swift's 6.58 Cotton Seed Fertilizer..... | ..... | 6.58 | ..... |
| Swift's Special Mixture..... | 10.00 | 1.65 | ..... |
| Swift's Special Tankage Fertilizer..... | 9.00 | 3.29 | 3.00 |
| Swift's Sulphate of Ammonia..... | ..... | 20.56 | ..... |
| Swift's Sulphate of Potash..... | ..... | ..... | 49.00 |
| Swift's Standard Tankage Mixture..... | 6.00 | 3.29 | 3.00 |
| Swift's Tankage Mixture..... | 9.00 | 3.29 | ..... |
| Swift's 10-1.65-1..... | 10.00 | 1.65 | 1.00 |
| Swift's 10-0-4..... | 10.00 | ..... | 4.00 |
| Swift's 10-3.29-0..... | 10.00 | 3.29 | ..... |
| Swift's Truckers' Favorite..... | 8.00 | 2.47 | 1.00 |
| Swift's 12-0-2..... | 12.00 | ..... | 2.00 |
| Swift's 12-0-4..... | 12.00 | ..... | 4.00 |
| Swift's 12-1.65-0..... | 12.00 | 1.65 | ..... |
| Swift's Vegetable Grower..... | 8.00 | 3.29 | 2.00 |

*Total Phosphoric Acid.

Table 4.—Registration of commercial fertilizers, season 1921-1922.

| Manufacturer, Place of Business and Brand. | Phosphoric Acid— Available Per Cent. | Nitrogen—Per Cent. | Potash—Per Cent. |
|---|--|-----------------------|---------------------|
| Tennessee Coal, Iron and Railroad Co., Birmingham, Alabama.— | | | |
| Duples Basic Phosphate..... | *18.00 | | |
| 14 Per Cent Duplex Basic Phosphate..... | *14.00 | | |
| Terrell Oil and Refining Co., Terrell, Texas.— | | | |
| Cottonseed Fertilizer..... | 1.00 | 6.50 | |
| Texas Sulphur Co., Inc., El Paso, Texas.— | | | |
| Agricultural Sulphur Compound..... | | | |
| Texas Chemical Co., Houston, Texas.— | | | |
| T-C-C Brand Raw Bone Meal..... | *22.00 | 3.70 | |
| Toyah Valley Sulphur Co., New Orleans, La.— | | | |
| Toyah Valley Agricultural Sulphur Compound..... | | | |
| Virginia-Carolina Chemical Co. of Delaware, Shreveport, La.— | | | |
| B. B. B. Beef, Blood and Bone..... | 10.00 | 1.65 | 1.00 |
| Capital Meal Formula..... | 10.00 | 1.65 | |
| Eureka Complete Fertilizer..... | 10.00 | 1.65 | 4.00 |
| Georgia State Grange..... | 10.00 | 1.65 | 1.00 |
| IXL Ammoniated Fertilizer..... | 10.00 | 1.65 | |
| Kainit..... | | | 12.00 |
| Mobile Double Eagle Guano..... | 10.00 | 1.65 | 1.50 |
| Mobile Raw Bone Ammoniated Superphosphate..... | 10.00 | 1.65 | 1.50 |
| Mobile Soluble Guano..... | 12.00 | 1.65 | |
| Muriate of Potash..... | | | 48.00 |
| Nitrate of Soda..... | | 14.81 | |
| Royal Blood, Bone and Potash..... | 10.00 | 1.65 | 1.50 |
| Royal Compound..... | 10.00 | | 2.00 |
| Royal Cotton Boll Guano..... | 8.00 | 1.65 | 2.00 |
| Royal Fruit Grower..... | 8.00 | 2.47 | 5.00 |
| Royal High Grade Guano..... | 10.00 | 1.65 | 2.00 |
| Royal Potash Compound..... | 10.00 | | 4.00 |
| Royal Tomato Formula..... | 10.00 | 2.47 | 1.00 |
| Royal Vegetable Fertilizer..... | 8.00 | 2.47 | 4.00 |
| Scott's Gossypium Phospho..... | 10.00 | 1.65 | 1.50 |
| Scott's Gossypium Phospho Special..... | 10.00 | 1.65 | 2.00 |
| Scott's High Grade Acid Phosphate..... | 14.00 | | |
| Scott's Meal Formula..... | 11.00 | 1.65 | |
| Scott's Potasso Phospho..... | 12.00 | | 2.00 |
| Scott's Soluble Guano..... | 11.50 | 1.65 | |
| Scott's State Standard Guano..... | 8.00 | 1.65 | 2.00 |
| Sulphate of Potash..... | | | 48.00 |
| Tip Top Nitrogen Compound..... | 2.00 | 13.16 | |
| Victor Ammoniated Fertilizer..... | 9.00 | 2.47 | |
| Victor Soluble Guano..... | 11.00 | 1.65 | |
| V. C. Ammoniated Fertilizer..... | 11.50 | 1.65 | |
| V. C. C. Co.'s 18 Per Cent Acid Phosphate..... | 18.00 | | |
| V. C. C. Co.'s 16 Per Cent Acid Phosphate..... | 16.00 | | |
| V. C. C. Co.'s Truck Grower..... | 8.00 | 2.06 | 6.00 |
| V. C. High Grade Champion Compound..... | 9.00 | 3.00 | 3.00 |
| V. C. High Grade Dixie Special..... | 7.00 | 3.00 | 1.00 |
| V. C. High Grade Guano..... | 10.00 | 1.65 | 2.00 |
| V. C. High Grade Potash Compound..... | 12.00 | | 4.00 |
| V. C. High Grade Top Dresser..... | 4.00 | 6.17 | 2.50 |
| V. C. Plant Food (For Vegetables, Lawns and Flowers)..... | 8.00 | 4.92 | 3.00 |
| V. C. Rice Special..... | 10.00 | 1.65 | 2.00 |
| V. C. Soluble Guano..... | 12.00 | 1.65 | |
| V. C. Special Fertilizer..... | 11.00 | 2.47 | |
| V. C. Special Potash Compound..... | 12.00 | | 8.00 |
| V. C. C. Fruit and Truck Special..... | 6.00 | 3.29 | 8.00 |
| V. C. Tomato Special..... | 10.00 | 2.47 | 1.50 |
| V. C. XXX Special..... | 8.00 | 2.47 | 1.00 |

*Total Phosphoric Acid.