

TEXAS AGRICULTURAL EXPERIMENT STATION

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COMMERCIAL FERTILIZERS IN 1942-43

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DIVISION OF CHEMISTRY



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This is the annual Fertilizer Control Bulletin. It contains statistics regarding fertilizers sold in Texas, information regarding the fertilizer law, and analyses of samples of the fertilizer sold by different manufacturers.

The total sales of fertilizer in Texas for 1942-43 were 154,828 tons. In 1941-42 the sales were 134,560 tons. In 1940-41 they were 129,758 tons. Cottonseed meal sold as a feed but used as a fertilizer was not included in these totals. Sales of fertilizer were about 15% more than last year. Practically all the sales of mixed fertilizers were confined to about 20 analyses.

Tables are given showing the extent to which the various fertilizer manufacturers met or exceeded their guarantees. The cost of nitrogen, phosphoric acid, and potash were higher in 1942-43 than in 1941-42.

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COMMERCIAL FERTILIZERS 1942-43

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and S. E. Asbury, Assistant State Chemist

Fertilizer laws require fertilizer to be correctly labeled so that the purchaser can know what he is getting. The object of the fertilizer law is to protect the farmer or other users of fertilizer against misrepresentation of the composition or fertilizing value of the fertilizer as well as manufacturers and dealers against unfair competition due to such misrepresentation.

The first Texas fertilizer law was passed in 1899. It was revised and amended in 1911. The results of the fertilizer inspection have been published in bulletins of the Texas Agricultural Experiment Station regularly since 1906. This is the forty-first Fertilizer Control Bulletin. It contains statistics, definitions of terms, a report on the analyses made in enforcing the provisions of the fertilizer law, and information regarding the use of fertilizers.

Explanation of Terms

Nitrogen refers to the total nitrogen in the fertilizer. It is necessary in proper amounts for the development of all parts of the plant, but occasionally an excess of nitrogen delays maturity. Such excess is liable to promote growth of stalk and leaves at the expense of fruit. Nitrogen is needed by many Texas soils, especially the sandy soils in the eastern parts of the State. Since nitrogen is used in comparatively large quantities by plants and is, to some extent, washed from the soil, it is usually the first element to become depleted.

Available phosphoric acid is the phosphoric acid (P205) in fertilizers which can be taken up quickly by plants. Phosphoric acid promotes the fruiting of plants, though it is also necessary for the development of all parts of the plant.

Total phosphoric acid is the entire quantity of the phosphoric acid (P205) present, whether highly available or not. A guarantee of total phosphoric acid in place of available is made in bone, tankage and rock phosphate.

Potash guaranteed in a fertilizer is required by the law to be soluble in water. Potash, like nitrogen, is needed by all parts of the plant, but especially by stalk and leaves. An excess of potash may delay maturity and may sometimes promote growth of the stalk and leaves at the expense of the fruit. When potash is abundantly supplied, plants may take up more than they need. Potash is present in soils more abundantly than nitrogen or phosphoric acid.

Valuation per ton represents the approximate average cost at retail of the plant food in the unmixed fertilizer. It is usually lower than the price at which the mixed fertilizer is sold, but since it is an average, it may be greater than the prices of some of the unmixed fertilizer materials. The selling price includes cost of mixing, of bags, of transportation, the profit of the manufacturer, if any, and that of the dealer. The valuations are decided on about September 1, and the prices often change before the principal fertilizer season, which is February to April in Texas. The valuation sums up the value of the three plant foods shown in the analysis into a single figure, and is convenient for this purpose. The fertilizer law permits a deficiency of less than ten per cent in one plant food to be compensated by an excess of another, but if the valuation found is four per cent less than the guaranteed valuation, a rebate must be paid to the purchaser. The valuation found compared with the valuation guaranteed shows whether or not the fertilizer value as a whole is better or poorer than the guarantee as a whole. The following prices were used for calculating valuations in 1942-43.

	Cents per pound
Nitrogen	13.0
Available phosphoric acid	7.0
Total phosphoric acid in tankage, and bone meal	5.0
Total phosphoric acid in rock phosphate	1.5
Potash	7.0

How fertilizers are named

Fertilizers are frequently named by numbers, such as a 5-10-5 fertilizer, a 4-12-4 fertilizer and so on. In such names, the first figure stands for the percentage of nitrogen, the second for the percentage of available phosphoric acid, and the third for the percentage of water-soluble potash. This is a short and accurate method of naming fertilizers.

Information on the Fertilizer Bag or Tag

The guaranteed analysis of the fertilizer is required by law to be printed on the bag or on a tag attached to the bag, so that the purchaser can see what he is buying. Total phosphoric acid may be guaranteed for bone or tankage instead of available phosphoric acid. A guarantee of total phosphoric acid is required in rock phosphate. The information required on the package is as follows:

Net weight
 Name of fertilizer in full
 Name and address of manufacturer
 Guaranteed analysis:
 Nitrogen, per cent
 Available phosphoric acid, per cent
 Potash, per cent.

How to Calculate the Valuation

The valuation of a fertilizer per ton is calculated by multiplying the percentage of each constituent by its valuation per unit and adding the products. A unit is one per cent of a ton, or 20 pounds; so if the valuation of nitrogen is 13 cents a pound, the valuation of a unit of nitrogen is

$13 \times 20 = \$2.60$. The valuation of a unit of available phosphoric acid with phosphoric acid at 7.0 cents a pound would be $7.0 \times 20 = \$1.40$; the valuation of a unit of potash at 7 cents a pound would be \$1.40. The following is an example of a calculation at the prices given above:

VALUATION OF 5-10-5 FERTILIZER

Nitrogen	5	$\times \$2.60 =$	\$13.00
Available phosphoric acid	10	$\times \$1.40 =$	\$14.00
Potash	5	$\times \$1.40 =$	\$ 7.00
Total			<u>\$34.00</u>

Fertilizer Analyses to be Sold in 1943-44

The grades of fertilizer sold in Texas have been limited in number for 18 years. This standardization aids the farmer to become familiar with the different kinds of fertilizer, enables him to decide more readily on the proper kind to be used, enables the agricultural worker to make definite recommendations, and reduces the cost of manufacture and handling, thereby also reducing the cost to the consumer.

As a war measure, grades of fertilizer to be sold were restricted in number by the War Food Administration. The grades of mixed fertilizer authorized for Texas for 1942-43 were 0-14-7, 3-10-0, 3-8-5, 3-15-0, 3-12-6, 4-8-12, 4-12-4, 4-10-7; 10-10-0 and 10-20-0 were restricted to fruits and vegetables in the Rio Grande Valley, and 6-30-0 and 10-20-0 to West Texas. The 3-8-7 was sold as Victory Garden Fertilizer. In addition, those who purchased fertilizer containing 4% nitrogen the previous year for field crops were restricted to fertilizers containing 3% nitrogen in 1942-43.

Larger supplies of nitrogen are available for 1943-44, consequently, fertilizers containing only 3% nitrogen have been eliminated from the list.

The grades of mixed fertilizer adopted by the Food Production Administration for sale in Texas for 1943-44 are as follows:

0-14-7, 4-8-8, 4-10-0, 4-12-4, 4-12-6, 5-10-5, 6-8-4; for Panhandle and West Texas only 6-30-0, 10-20-0, 12-15-0; for the Rio Grande Valley only 6-12-0, 10-10-0. The 5-10-5 is also to be sold as the Victory Garden Fertilizer.

Quantity Sold

The quantities of commercial fertilizer sold in Texas for several seasons, from September 1 to August 31, are given in Table 1. These are the actual sales as reported by the manufacturers, and not the tag sales. The tag sales are always a little larger than the actual sales. The sales in 1942-43 of 154,828 tons were about 15% higher than last season. The largest sales so far made in Texas were 187,215 tons during the season 1928-29. There has been a gradual increase every year since 1937. Fertilizer statistics for a number of years to August 31, 1926, including sales by counties, have been published in Bulletin 350, and from 1926 to 1938 in Bulletin 572.

Table 1. Fertilizers sold in Texas, (not including cottonseed meal sold as feed but used as fertilizers).

	Tons
1905-06	13,500
1910-11	52,985
1913-14	77,400
1914-15	17,500
1919-20	56,700
1920-21	14,850
1921-22	33,000
1922-23	73,300
1923-24	126,179
1924-25	97,719
1925-26	121,747
1926-27	79,863
1927-28	139,126
1928-29	187,215
1930-31	64,424
1932-33	30,845
1935-36	60,016
1937-38	79,640
1938-39	93,115
1939-40	116,307
1940-41	129,578
1941-42	134,560
1942-43	154,828

Quantity of Sales by Grades

Table 2 contains the sales of fertilizer by grades for 1942-43 arranged in order according to sales. Sales of 3-12-6 fertilizer were highest of all. The 4-12-4 came second, the 4-10-7 third and the 20% superphosphate fourth. Some grades which appear on this table are not on the authorized list. These were either fertilizer carried over from the previous season, whose sale was authorized, or grades manufactured especially for use on Army or Navy air fields.

The tonnage of cottonseed meal reported in Table 2 includes only that tagged with fertilizer tax tags and sold as a fertilizer.

Table 2. Sales by grade in order of tonnage, September 1, 1942 to August 31, 1943.

	Tons
3-12-6	58,538
4-12-4	32,018
4-10-7	18,865
Superphosphate, 20%	7,344
Nitrate of soda, 16%	5,857
3-15-0	5,577
Sulphur and Sulphur Earth	4,476
3-8-5	3,145
Sulphate of ammonia	2,409
4-8-12	2,031
3-8-7	2,022
3-10-0	1,693
Phosphate rock (ground)	1,509
Superphosphate, 18%	1,501
0-14-7	1,476
Bone meal	1,173
Ammonium Nitrate	1,170
10-10-0	1,018
Superphosphate, 45%	775
Activated Sludge	521
6-9-3 (air fields)	484
10-20-0	414
Miscellaneous goods carried over	379
6-12-4 (air fields)	200
Muriate of potash, 50%	80
Cyanamid, 21%	70
Uremon, 42%	30

Table 2. Sales by grade in order of tonnage, September 1, 1942 to August 31, 1943.
(Continued)

	Tons
6-30-0	20
Cottonseed meal	18
Manure salts, 25%	10
Muriate of potash, 60%	5
Total	154,828
Superphosphate distributed by the A.A.A.	16,891

Composition and Selling Prices of Different Grades of Fertilizer

Table 3 contains the average composition, the guaranteed valuation, the valuation found by analysis, and the average retail selling price per ton, of various grades of fertilizers. The average retail selling price is the average of the cash retail prices furnished to the fertilizer inspector by the dealers. The prices of the same fertilizer may be different in different towns on account of differences in cost of transportation or for other causes. The retail price includes handling costs, carrying charges, and the dealer's profits, as well as the cost of the plant food used in the materials from which the fertilizer is made. Prices of fertilizer were established by the Office of Price Administration beginning with the spring of 1943.

The average valuations found by analysis (Table 3) exceed the guaranteed valuation in almost every case. The exceptions are 3-8-5 and sheep manure 2-2-2. In both of these, however, the average valuations found by analysis are only slightly below the valuations guaranteed.

Table 3. Average composition, valuation and selling prices of grades of fertilizers 1942-43.

Grades of farm fertilizers	Number averaged	Nitrogen per cent	Available Phos. acid per cent	Potash per cent	Guaranteed Valuation per ton	Valuation Found per ton	Selling Price per ton
0-14-7	17		14.52	7.03	\$29.40	\$30.17	\$30.71
3-8-5	8	2.86	8.04	4.93	26.00	25.60	31.03
3-12-6	222	3.09	12.23	6.05	33.00	33.52	33.65
3-15-0	9	3.20	15.22		28.80	29.63	31.73
4-8-4	3	3.97	8.68	4.01	27.20	28.09	31.00
4-8-12	18	3.85	8.50	12.31	38.40	39.15	35.56
4-10-0	2	4.16	9.87		24.40	24.62	30.00
4-10-7	115	3.98	10.36	6.83	34.20	34.38	35.60
4-12-4	131	4.06	12.32	4.14	32.80	33.59	35.47
5-15-0	2	5.29	15.71		34.00	35.73	41.50
5-15-5	2	5.32	15.15	5.44	41.00	42.65	42.50
6-8-4	1	5.87	10.28	6.21	32.40	38.34	35.00
6-10-7	1	6.20	9.84	7.23	39.40	40.02	41.00
6-12-6	4	5.97	12.51	6.04	40.80	41.48	40.50
10-10-0	4	10.21	10.45		40.00	41.17	42.54
10-20-0	1	11.15	18.83		54.00	55.35	53.54
Muriate of Potash	1			56.88	70.00	79.63	50.60
Nitrate of soda	15	16.10			41.60	41.88	41.96
Superphosphate 18%	5		18.81		25.20	26.33	21.32
Superphosphate 20%	23		20.60		28.00	28.53	27.59
Sheep Manure (2-2-2)	1	2.00	1.36	2.54	10.80	10.66	64.00
Sheep Manure (2-1-2)	1	2.46	1.56	3.74	9.40	13.82	
Sulphate of Ammonia 20.5%	3	20.61			53.30	53.58	44.87
Sulphate of Ammonia 20.6%	1	20.66			53.56	53.72	44.10
Raw Bone Meal	4	3.93	22.05*		31.62	32.28	52.20

*Total Phosphoric Acid.

Grades of flower, lawn and garden fertilizers	Number averaged	Nitrogen per cent	Available Phos. acid	Potash per cent	Guaranteed valuation per ton	Valuation found per ton	Selling price per ton
3-8-7	17	3.12	8.52	7.01	28.80	32.78	46.24
4-12-4	12	4.18	12.61	4.36	32.80	34.64	64.33

Cost of Plant Food

Table 4 contains the calculated retail cost of a pound of nitrogen, of available phosphoric acid, and of potash, in cents per pound, as calculated from the cash selling prices per ton of the various grades of fertilizer given in Table 3 and the guaranteed composition. For the purpose of these calculations it was assumed that the prices were in the same ratio as the valuations. As the price of the same fertilizer may be different in different places, these figures are not correct for any particular locality, but represent averages only, and are for purposes of comparison. The prices were collected by the inspectors from retail merchants handling fertilizers. Grades used extensively near the factories might average a lower price than those used at a distance on account of lower transportation costs. The fertilizers with the lowest cost of plant food are given first in the table.

Cost of Nitrogen. The sulphate of ammonia was the cheapest source of nitrogen, 4-8-12 second, 10-20-0 third, 6-12-6 fourth and 4-10-7 fifth. Sheep manure was the most expensive source of nitrogen, but is chiefly used for lawns or gardens. Of the farm fertilizers, raw bone meal was the most expensive source of nitrogen, followed by 4-10-0 and 5-15-0 as shown in Table 4. The cost of nitrogen was greater in most of the mixed fertilizers than in sulphate of ammonia because it costs to mix the fertilizer. The lowest-priced nitrogen in the mixed fertilizers was in the 4-8-12, followed in order by the 10-20-0, 6-12-6, 4-10-7 and 3-12-6. Nitrogen was higher in price than last season in all fertilizers, except in 4-10-0, sulphate of ammonia and nitrate of soda. Nitrogen in sulphate of ammonia

Table 4. Approximate average cost of plant food in cents per pound. Arranged in order of increasing cost 1942-43.

Grades	Nitrogen	Available Phosphoric Acid	Potash
Muriate of potash			5.06
Sulphate of Ammonia 20.6%	10.73		
Sulphate of Ammonia 20.5%	10.95		
Superphosphate 18%		5.93	
4-8-12	12.04	6.48	6.48
Superphosphate 20%		6.89	
10-20-0	12.88	6.94	
6-12-6	12.91	6.95	6.95
4-10-7	13.05	7.03	7.03
Nitrate of Soda	13.12		
3-12-6	13.22	7.12	7.12
5-15-5	13.48	7.26	7.26
6-10-7	13.53	7.29	7.29
0-14-7		7.32	7.32
10-10-0	13.83	7.45	
4-12-4	14.01	7.55	7.55
6-8-4	14.04	7.56	7.56
3-15-0	14.33	7.71	
4-8-4	14.82	7.98	7.98
3-8-5	15.52	8.36	8.36
5-15-0	15.87	8.55	
4-10-0	15.99	8.61	
Raw Bone Meal	21.46	8.26*	
Sheep Manure	77.04	41.48	41.48
Flower, lawn and garden fertilizers.			
3-8-7	20.88	11.24	11.24
4-12-4	25.49	13.73	13.73

*Total Phosphoric Acid.

20.5% cost 10.95 cents per pound this season compared with 12.24 cents last season, a decrease of 1.29 cents per pound. It was 1.41 cents lower in nitrate of soda. It was 5.64 cents higher in raw bone meal, 2.15 cents higher in 5-15-0 and 1.11 cents higher in 10-10-0. The difference averaged .35 of a cent a pound higher for nitrogen in 10-20-10, and 1.19 cents higher for that in 4-12-4.

Cost of Phosphoric Acid. The cheapest source of phosphoric acid was 18% superphosphate, then 4-8-12, followed by 20% superphosphate and 10-20-0. The cost of available phosphoric acid was about .96 of a cent less per pound in 18 per cent superphosphate than in 20 per cent. Omitting the flower fertilizers, phosphoric acid was most expensive in sheep manure, then in 4-10-0, 5-15-0 and 3-8-5. Available phosphoric acid in 4-12-4 was .27 of a cent a pound higher than last year.

Cost of Potash. Muriate of potash furnished the cheapest potash, followed by 4-8-12, then 6-12-6 and then 4-10-7. Omitting the flower fertilizers, potash was the most expensive in sheep manure, followed by 3-8-5. Potash in 4-12-4 cost .27 of a cent a pound more than last year.

How to get Free Analysis of Fertilizers

Purchasers of commercial fertilizers for their own use (but not for sale), can secure a free analysis of a sample provided they take a legal sample. Those who desire the free analysis of a sample of commercial fertilizer should write for a blank, "Application for Free Fertilizer Analysis," to the State Chemist, College Station, Texas, before taking a sample. The proper sampling of a fertilizer requires care, and the law requires it to be taken in a certain way so that a fair sample is taken. If the sample is not properly taken, it does not represent the fertilizer sampled, and the analysis may be better or poorer than the goods actually are. This privilege of a free analysis applies only to fertilizers tagged, and sold under the fertilizer law and to samples properly taken so that they represent the goods sampled.

Analysis of Fertilizers, 1942-43

Samples of fertilizer were collected from the goods being sold in many towns and cities. The chief places of sales were visited several times.

Table 6 near the end of this Bulletin, contains a list of the 625 samples of fertilizer subjected to analysis in the season ending September 1, 1943. Practically all samples of fertilizer were collected by our inspectors. The number of samples collected was smaller than last year because the fertilizer was taken to the farms as fast as it was manufactured and distributed instead of being placed in stores or warehouses as usually occurs. Analysis and inspection were made by S. E. Asbury, T. L. Ogier, Waldo Walker, Gwendylee Lake, and C. B. McLarry.

Table 5. Average valuation of all fertilizers guaranteed and found in dollars per ton 1942-43

Manufacturer	Number Averaged	Valuation Guaranteed	Valuation found	No. of samples more than 4% below guarantee
Armour Fertilizer Works	111	\$32.81	\$33.07	1
Bryan Cotton Oil Fertilizer Company	2	32.90	35.83	0
Campbell Fertilizer Company	13	31.91	34.20	0
Chilean Nitrate Sales Corporation	5	41.60	42.08	0
Coastal Chemical Company, Incorporated	1	28.00	28.95	0
The Colorado Fuel & Iron Company	2	53.30	53.69	0
Consolidated Chemical Industrials, Inc.	4	31.62	32.28	0
East Texas Cotton Oil Company	27	33.18	33.92	0
Farm Service Inc.	1	32.80	32.12	0
Federal Chemical Company	41	33.33	33.68	0
Fidelity Chemical Company	30	33.79	35.22	0
Gilmer Cotton Oil & Fertilizer Company	8	32.35	32.84	0
International Mineral & Chemical Corp.	34	32.92	33.25	0
Jacksonville Fertilizer Company	6	34.97	37.11	0
Kelley-Weber & Company Inc.	2	32.90	34.52	0
Longview Cotton Oil Company	4	31.15	31.58	0
Marshall Cotton Oil Company	10	40.84	30.68	0
Mixson Brothers	3	31.67	32.31	0
Oil Mill & Fertilizer Works	2	30.50	30.86	0
Pate Brothers Fertilizer Works	15	32.23	32.35	1
Pittsburg Cotton Oil Co.	3	31.67	32.55	0
Port Fertilizer Company	5	45.83	46.55	0
Shreveport Fertilizer Works	25	33.17	34.07	0
Southwestern Peanut Grower's Association ...	4	32.95	33.50	0
Stockdale Fertilizer Company	1	9.40	13.82	0
Swift & Company Fertilizer Works	100	33.15	33.47	2
Temple Cotton Oil Company	5	34.32	35.51	1
Texas Farm Products Company	40	32.08	32.30	1
Tyler Fertilizer Company	14	36.17	36.84	0
United Chemical Company	34	32.44	33.38	0
Virginia Carolina Chemical Corp.	63	32.72	33.65	1
Waldo Fertilizer Works	6	33.60	34.13	0

Relation of Valuation Guaranteed to Valuation Delivered

Table 5 contains the average guaranteed valuation, and the average valuation found by our analyses, for all manufacturers doing business in Texas. In the preparation of this table, all analyses made were averaged, even though several were made of each brand. Fertilizer materials are included as well as mixed fertilizers.

Averages Below Guarantee

Whenever any lot of fertilizer is 4 per cent or more below guarantee, the law requires all persons who have sold this lot of fertilizer to make good the deficiency to all purchasers. This rebate is paid by the manufacturer to the dealer and by the dealer to the customer. The number of lots on which rebates were paid by each manufacturer is shown in Table 5.

Publications dealing with the Use of Fertilizer

Information concerning the use of commercial fertilizer for various crops in different sections of Texas will be sent free on request. Some publications of the Texas Experiment Station giving information on fertilizers and fertilizing material are as follows:

- Circular 85—Use of commercial fertilizers.
Bulletin 167—Commercial fertilizers and their use.
Bulletin 212—The availability of phosphoric acid in rock phosphate.
Bulletin 350—Fertilizer statistics for Texas (to 1927).
Bulletin 398—Fertilizers for rice in Texas.
Bulletin 414—Possibilities of sulphur as a soil amendment.
Bulletin 428—The fertilizing value of greensand.
Bulletin 432—Manganese in Texas soils and its relation to crops.
Bulletin 445—The composition and fertilizing value of sewage sludge.
Bulletin 469—Fertilizer experiments with cotton.
Bulletin 509—Availability of the phosphoric acid of finely divided rock phosphate.
Bulletin 524—Fertilizer experiments with yellow Bermuda onions in the Winter Garden region of Texas.
Bulletin 572—Fertilizer statistics for Texas, 1926-38.
Progress Report 594—Non-acid forming fertilizers.
Bulletin 596—Onion fertilizer experiments at Laredo, Big Well, and Eagle Pass, Texas.
Bulletin 602—Fertilizers for rice in Texas.
Progress Report 675—Acid production in compost of sulphur and organic matter.
Circular 90—Rose growing for the home gardener.
Circular 95—Vitamin B1 (Thimain) and other vitamins as fertilizers.
Circular 102—Recommendations for the use of the approved grades of fertilizer for Texas in 1943-44.

Any of these publications will be sent free on request to the Director of the Experiment Station, College Station, Texas. In order to avoid errors, both the name and the number should be given.

SUMMARY

This Bulletin contains a report of the Texas Fertilizer Control for 1942-43.

An explanation of terms is given.

Sales of fertilizer in Texas were 154,828 tons in 1942-43. They were 134,560 tons in 1941-42. The tonnage for other years is given.

The average selling prices and composition of the different kinds of fertilizer are given.

The grades of fertilizer to be sold next season are given.

A table is given showing the relation of the guaranteed valuation to the valuation delivered by the various manufacturers.

Analyses of 625 samples collected by the inspector are given.

Table 6. Analysis of commercial fertilizer, season 1942-43

Laboratory Number	Manufacturer, place of business and brand	Nitrogen per cent	Available phosphoric acid, per cent	Potash, per cent	Valuation found, per ton
Armour Fertilizer Works, Houston, Fort Worth, Texas, and New Orleans, Louisiana					
88068	Amour's Big Crop Fertilizer 0-14-7 Guarantee	14.00	7.00	\$29.40	
88436	Analysis	13.68	6.98	28.92	
88479	Analysis	14.30	6.51	29.13	
	Analysis	14.46	7.11	30.19	
87985	Armour's Big Crop Fertilizer 3-15-0 Guarantee	3.00	15.00	28.80	
88047	Analysis	3.03	15.36	29.38	
88069	Analysis	3.01	15.59	29.66	
88099	Analysis	3.12	14.58	28.52	
88502	Analysis	3.18	15.20	29.55	
	Analysis	3.40	15.07	29.94	
87989	Armour's Big Crop Fertilizer 4-10-0 Guarantee	4.00	10.00	24.40	
87992	Analysis	4.11	9.64	24.19	
	Analysis	4.20	10.09	25.05	
87988	Armour's Big Crop Fertilizer 5-15-0 Guarantee	5.00	15.00	34.00	
	Analysis	5.02	15.99	35.44	
88020	Armour's Big Crop Fertilizer 3-12-6 Guarantee	3.00	12.00	6.00 33.00	
88071	Analysis	3.01	12.22	6.18 33.45	
88089	Analysis	3.01	12.17	5.78 32.96	
88098	Analysis	3.03	12.18	5.54 32.69	
88148	Analysis	3.08	12.27	5.62 33.06	
88158	Analysis	3.01	12.06	6.05 33.18	
88186	Analysis	3.00	12.25	5.56 32.73	
88192	Analysis	3.01	11.63	6.01 32.52	
88209	Analysis	2.95	11.63	6.29 32.76	
88226	Analysis	3.00	12.25	5.75 33.00	
88234	Analysis	2.90	12.33	5.58 32.61	
88241	Analysis	3.01	12.36	5.47 32.79	
88273	Analysis	2.95	12.42	5.62 32.93	
88279	Analysis	3.01	11.78	6.13 32.90	
88299	Analysis	2.99	12.76	5.56 33.41	
88337	Analysis	2.97	11.89	6.03 32.81	
88348	Analysis	2.88	12.05	5.55 32.13	
88368	Analysis	3.95	12.02	6.06 32.98	
88371	Analysis	3.02	12.12	5.51 32.53	
88381	Analysis	2.93	12.35	5.48 32.58	
88403	Analysis	2.56	12.17	5.39 31.25	
88434	Analysis	2.91	12.25	5.80 32.84	
88437	Analysis	2.81	12.85	5.29 32.71	
88455	Analysis	2.78	12.09	5.46 31.80	
88478	Analysis	2.70	12.88	5.25 32.40	
88482	Analysis	2.79	13.23	5.70 33.75	
88495	Analysis	2.88	12.59	5.70 33.10	
88501	Analysis	2.87	12.75	5.71 33.30	
88514	Analysis	3.26	12.32	5.80 33.85	
88521	Analysis	3.13	12.81	5.65 33.98	
88525	Analysis	3.25	12.46	5.61 33.74	
88545	Analysis	2.95	12.69	5.60 33.28	
88560	Analysis	3.08	12.58	5.79 33.73	
88570	Analysis	3.12	12.66	5.09 32.96	
	Analysis	2.96	12.75	5.67 33.49	
88274	Armour's Big Crop Fertilizer 4-8-12 Guarantee	4.00	8.00	12.00 38.40	
88340	Analysis	3.79	8.54	11.24 37.55	
	Analysis	4.06	8.11	11.42 37.90	
88018	Armour's Big Crop Fertilizer 4-10-7 Guarantee	4.00	10.00	7.00 34.20	
88026	Analysis	3.97	10.85	6.39 34.46	
88037	Analysis	4.00	10.75	6.72 34.86	
88070	Analysis	4.05	10.42	7.03 34.96	
88109	Analysis	4.27	10.61	6.41 34.92	
88150	Analysis	4.14	10.26	6.70 34.50	
	Analysis	3.88	10.65	6.81 34.53	

Table 6. Analysis of commercial fertilizer, season 1942-43

Laboratory Number	Manufacturer, place of business and brand	Nitrogen per cent	Available phosphoric acid, per cent	Potash, per cent	Valuation found, per ton
Armour Fertilizer Works, Houston, Fort Worth, Texas, and New Orleans, Louisiana—Continued					
	Armour's Big Crop Fertilizer 4-10-7 Guarantee—Cont.....	4.00	10.00	7.00	\$34.20
88160	Analysis	3.88	10.51	7.13	34.79
88187	Analysis	4.06	10.35	6.62	34.32
88191	Analysis	3.97	10.48	7.16	35.01
88210	Analysis	3.95	10.43	6.65	34.18
88225	Analysis	3.89	10.81	6.32	34.09
88236	Analysis	3.81	10.53	6.65	33.96
88275	Analysis	4.00	10.29	6.54	33.97
88291	Analysis	3.84	10.37	6.62	33.77
88300	Analysis	3.70	10.74	6.47	33.72
88309	Analysis	4.40	10.29	7.11	34.86
88339	Analysis	3.90	10.16	7.21	34.45
88350	Analysis	3.97	10.74	6.60	34.60
	Armour's Big Crop Fertilizer 4-12-4 Guarantee	4.00	12.00	4.00	32.80
87969	Analysis	3.75	12.69	4.42	33.71
87972	Analysis	3.80	12.61	4.32	33.58
87984	Analysis	3.89	12.52	4.21	33.53
88009	Analysis	3.80	12.51	3.75	32.64
88019	Analysis	3.84	12.45	3.80	32.73
88027	Analysis	4.00	12.20	4.10	33.22
88031	Analysis	4.01	11.81	4.17	32.80
88038	Analysis	3.93	12.17	4.05	32.93
88045	Analysis	3.83	12.33	4.02	32.85
88053	Analysis	3.80	12.56	3.72	32.67
88054	Analysis	3.92	12.49	4.15	33.49
88061	Analysis	3.99	12.25	4.17	33.36
88062	Analysis	3.88	12.21	4.12	32.95
88110	Analysis	4.03	12.79	4.10	34.13
88149	Analysis	3.96	12.30	4.27	33.50
88193	Analysis	3.88	12.12	4.06	32.74
88235	Analysis	3.95	12.31	4.07	33.20
88280	Analysis	3.72	13.03	3.41	32.68
88338	Analysis	3.87	12.57	4.04	33.32
88349	Analysis	3.75	12.41	3.56	32.10
88380	Analysis	4.08	12.48	4.04	33.74
88438	Analysis	3.90	12.24	4.08	32.96
88480	Analysis	4.02	12.09	3.92	32.87
	Armour's Big Crop Fertilizer 5-15-5 Guarantee	5.00	15.00	5.00	41.00
87990	Analysis	5.15	15.35	5.04	41.94
87993	Analysis	5.49	14.94	5.83	43.35
	Armour's Big Crop Fertilizer 6-8-4 Guarantee	6.00	8.00	4.00	32.40
87994	Analysis	5.87	10.28	6.21	38.34
	Armour's Big Crop Fertilizer 6-12-6 Guarantee	6.00	12.00	6.00	40.80
88003	Analysis	6.04	12.91	5.94	42.09
	Armour's Big Crop Fertilizer Old Black Joe Guarantee	4.00	8.00	4.00	27.20
87986	Analysis	4.03	8.54	3.78	27.73
87997	Analysis	3.91	8.83	4.04	28.19
87999	Analysis	3.97	8.66	4.22	28.35
	Armour's Big Crop Fertilizer Superphosphate 18% Guarantee		18.00		25.20
88111	Analysis		18.18		25.45
87382	Analysis		17.54		24.56
88442	Analysis		18.10		25.34
88483	Analysis		18.50		25.90
	Armour's Big Crop Superphosphate 20% Guarantee.....		20.00		28.00
87942	Analysis		19.61		27.45
88044	Analysis		20.27		28.38
88046	Analysis		20.20		28.28
88052	Analysis		20.11		28.15
88159	Analysis		19.36		27.10

Table 6. Analysis of commercial fertilizer, season 1942-43

Laboratory Number	Manufacturer, place of business and brand	Nitrogen per cent	Available phosphoric acid, per cent	Potash, per cent	Valuation found, per ton
Armour Fertilizer Works, Houston, Fort Worth, Texas, and New Orleans, Louisiana—Continued					
	Armour's Garden Fertilizer Guarantee	4.00	12.00	4.00	\$32.80
87971	Analysis	3.83	12.76	3.93	33.32
	Nitrate of Soda 16% Guarantee	16.00			41.60
87987	Analysis	16.00			41.60
87991	Analysis	16.13			41.94
87995	Analysis	16.07			41.78
88526	Analysis	16.36			42.54
	Sulphate of Ammonia Guarantee	20.50			53.30
88051	Analysis	20.52			53.35
Bryan Cotton Oil & Fertilizer Company, Bryan, Texas					
	Star Brand Cotton & Corn Fertilizer Guarantee	3.00	12.00	6.00	33.00
88276	Analysis	3.33	12.72	6.79	35.98
88277	Analysis	4.29	12.91	4.61	35.67
Campbell Fertilizer Company, Houston, Texas					
	0-14-7 All Weather Louisiana Special Guarantee		14.00	7.00	29.40
88064	Analysis		17.52	6.75	33.98
88474	Analysis		18.13	6.39	34.33
	3-15-0 All Weather Rice Special Fertilizer Guarantee.....	3.00	15.00		28.80
88066	Analysis	3.05	16.70		31.31
	3-8-7 All Weather Victory Garden Special For Food Production Only Guarantee	3.00	8.00	7.00	28.80
88067	Analysis	4.01	10.18	6.00	33.08
	All Weather Organic Base Fertilizer 3-12-6 Guarantee	3.00	12.00	6.00	33.00
88065	Analysis	4.17	11.28	6.46	35.67
88086	Analysis	2.69	13.49	6.38	34.81
	All Weather Organic Base Fertilizer 4-10-7 Guarantee	4.00	10.00	7.00	34.20
88073	Analysis	3.97	9.58	8.05	35.00
88087	Analysis	4.16	10.99	5.76	34.27
	All Weather Organic Base Fertilizer 4-12-4 Guarantee	4.00	12.00	4.00	32.80
88005	Analysis	3.59	14.36	4.03	35.07
88063	Analysis	3.93	13.50	3.78	34.41
88072	Analysis	4.00	12.62	4.37	34.19
88088	Analysis	3.63	13.78	3.88	34.16
88082	Analysis	3.77	13.52	4.22	34.34
Chilean Nitrate Sales Corporation New York, New York					
	Chilean Nitrate of Soda Champion Brand Guarantee	16.00			41.60
87970	Analysis	16.32			42.43
88108	Analysis	16.16			42.02
88487	Analysis	16.02			41.65
88491	Analysis	16.24			42.22
88515	Analysis	16.18			42.07
Coastal Chemical Company, Harlingen, Texas					
	Triple C Brand 20% Superphosphate Granular Guarantee		20.00		28.00
88059	Analysis		20.68		28.95
Consolidated Chemical Industries Inc., Houston, Texas					
	T. C. C. Brand Raw Bone Meal Guarantee	3.70	22.00*		31.62
88004	Analysis	3.53	21.39*		30.57
88010	Analysis	3.90	22.73*		32.87
88090	Analysis	4.13	21.98*		32.72
88091	Analysis	4.17	22.11*		32.95
East Texas Cotton Oil Company, Tyler, Texas					
	ETCO 3-12-6 Fertilizer Guarantee	3.00	12.00	6.00	33.00
88213	Analysis	3.15	11.80	6.00	33.11
88223	Analysis	3.01	11.88	6.29	33.27

*Total Phosphoric Acid

Table 6. Analysis of commercial fertilizer, season 1942-43

Laboratory Number	Manufacturer, place of business and brand	Nitrogen per cent	Available phosphoric acid, per cent	Potash, per cent	Valuation found, per ton
East Texas Cotton Oil Company, Tyler, Texas—Continued					
	ETCO 4-10-7 Fertilizer Guarantee	4.00	10.00	7.00	\$34.20
88230	Analysis	4.09	10.30	7.07	34.95
88412	Analysis	3.93	9.61	7.35	33.96
88467	Analysis	4.17	10.44	6.74	34.90
	ETCO 4-12-4 Fertilizer Guarantee	4.00	12.00	4.00	32.80
88145	Analysis	4.16	12.49	4.04	33.97
88165	Analysis	4.21	12.75	4.34	34.88
80212	Analysis	4.05	12.07	4.30	33.45
88224	Analysis	4.07	11.91	4.43	33.35
88415	Analysis	4.04	12.25	4.07	33.96
	Goldenrod 3-8-7 "Victory Garden Fertilizer For Food Production Only" Guarantee	3.00	8.00	7.00	28.80
88214	Analysis	2.86	9.35	7.25	30.68
	Goldenrod Brand 3-12-6 Fertilizer Guarantee	3.00	12.00	6.00	33.00
88411	Analysis	3.11	12.23	6.23	33.93
88414	Analysis	3.02	12.29	6.17	33.70
88420	Analysis	3.15	12.09	6.33	33.98
88456	Analysis	2.96	12.33	5.62	32.83
88506	Analysis	3.13	12.33	6.05	33.87
	Goldenrod Brand 4-10-7 Fertilizer Guarantee	4.00	10.00	7.00	34.20
88222	Analysis	4.18	9.79	7.01	34.39
88416	Analysis	4.08	10.05	7.20	34.76
88517	Analysis	4.07	9.91	6.43	33.45
	Goldenrod Brand 4-12-4 Fertilizer Guarantee	4.00	12.00	4.00	32.80
88231	Analysis	4.05	12.33	4.10	33.56
88443	Analysis	4.23	12.48	4.16	34.29
East Texas Cotton Oil Company, Palestine, Texas					
	Palestine Blue Star Brand 3-12-6 Guarantee	3.00	12.00	6.00	33.00
88144	Analysis	3.48	12.24	6.37	35.11
	Palestine Blue Star Brand 4-10-7 Guarantee	4.00	10.00	7.00	34.20
88143	Analysis	4.00	10.09	6.87	34.15
88211	Analysis	4.04	10.24	7.09	34.77
88446	Analysis	4.28	10.47	6.64	35.09
	Palestine Blue Star Brand 4-12-4 Guarantee	4.00	12.00	4.00	32.80
88161	Analysis	4.01	12.66	4.28	34.14
Farm Service Inc. Opelousas, Louisiana					
	Thorobred 4-12-4 Fertilizer Guarantee	4.00	12.00	4.00	32.80
88174	Analysis	3.73	11.57	4.44	32.12
Federal Chemical Company Inc., Shreveport, Louisiana					
	Federal 3-12-6 Guarantee	3.00	12.00	6.00	33.00
88126	Analysis	3.18	12.16	6.06	33.77
88153	Analysis	3.15	11.65	5.99	32.89
88155	Analysis	3.16	12.02	6.01	33.46
88206	Analysis	3.12	12.20	6.09	33.72
88253	Analysis	3.22	12.36	5.91	34.10
88259	Analysis	3.13	12.23	6.08	33.77
88271	Analysis	3.04	12.38	6.09	33.76
88295	Analysis	3.15	12.45	5.91	33.89
88312	Analysis	3.28	11.88	6.03	33.60
88313	Analysis	3.08	12.03	5.68	32.80
88364	Analysis	3.18	12.11	6.14	33.82
88370	Analysis	3.27	11.54	6.18	33.31
88372	Analysis	3.15	12.03	6.01	33.44
88377	Analysis	3.14	11.94	6.12	33.45
88383	Analysis	3.18	12.00	6.17	33.71
88463	Analysis	3.04	12.15	5.65	32.82
88534	Analysis	3.04	12.64	6.08	34.11
88540	Analysis	3.10	12.05	6.04	33.39
88554	Analysis	3.12	12.45	6.09	34.04
88557	Analysis	3.02	12.43	6.02	33.60
88559	Analysis	3.06	12.02	5.84	32.97

Table 6. Analysis of commercial fertilizer, season 1942-43

Laboratory Number	Manufacturer, place of business and brand	Nitrogen per cent	Available phosphoric acid, per cent	Potash, per cent	Valuation found, per ton
Federal Chemical Company, Inc., Shreveport, Louisiana—Continued					
	Federal 3-12-6 Guarantee—Continued.....	3.00	12.00	6.00	\$33.00
88574	Analysis	2.93	12.13	5.85	32.79
88586	Analysis	2.87	12.07	6.45	32.39
88591	Analysis	2.93	11.76	6.10	32.62
	Federal 4-8-12 Guarantee	4.00	8.00	12.00	38.40
88297	Analysis	3.99	7.87	12.40	38.33
	Federal 4-10-7 Guarantee	4.00	10.00	7.00	34.20
88156	Analysis	4.13	9.63	6.64	33.52
88204	Analysis	4.15	10.34	6.80	34.79
88254	Analysis	3.96	9.24	8.73	35.46
88261	Analysis	4.09	10.22	7.11	34.89
88272	Analysis	4.20	10.11	6.99	34.86
88296	Analysis	4.14	10.03	7.12	34.77
88365	Analysis	3.91	10.33	6.83	34.19
88385	Analysis	3.89	10.21	6.53	33.54
	Federal 4-12-4 Guarantee	4.00	12.00	4.00	32.80
88127	Analysis	4.29	11.77	4.25	33.58
88154	Analysis	4.21	11.58	4.06	32.84
88157	Analysis	4.15	12.07	4.08	33.40
88205	Analysis	4.13	12.08	4.26	33.61
88252	Analysis	4.13	11.95	4.04	33.13
88260	Analysis	4.36	11.94	4.21	33.95
88314	Analysis	4.14	11.73	4.16	33.00
88384	Analysis	4.18	12.25	4.14	33.82
Fidelity Chemical Corp., Houston, Texas					
	Ferti-Lome for Vegetables Only Guarantee	4.00	12.00	4.00	32.80
88002	Analysis	5.64	11.99	5.06	38.53
88008	Analysis	3.77	15.61	4.91	38.52
	Fidelity 0-14-7 Guarantee	14.00	7.00	29.40	
88017	Analysis	14.02	7.42	30.02	
88096	Analysis	14.11	6.97	29.51	
88476	Analysis	14.41	7.16	30.19	
	Fidelity 3-15-0 Guarantee	3.00	15.00	28.80	
88043	Analysis	3.44	14.78	29.63	
	Fidelity 5-15-0 Guarantee	5.00	15.00	34.00	
87976	Analysis	5.55	15.42	36.02	
	Fidelity 3-12-6 Guarantee	3.00	12.00	6.00	33.00
88016	Analysis	4.96	11.14	5.17	35.74
88025	Analysis	3.54	12.23	5.81	34.45
88028	Analysis	3.16	12.07	6.42	34.11
88055	Analysis	3.21	12.37	5.74	33.71
88075	Analysis	3.02	12.04	5.98	33.08
88094	Analysis	2.96	12.20	6.04	33.24
88140	Analysis	3.32	11.89	6.11	33.83
88425	Analysis	3.06	12.27	6.05	33.61
	Fidelity 4-10-7 Guarantee	4.00	10.00	7.00	34.20
88095	Analysis	3.88	10.20	7.28	34.56
88490	Analysis	4.04	10.00	6.91	34.17
	Fidelity 4-12-4 Guarantee	4.00	12.00	4.00	32.80
88007	Analysis	4.31	12.71	4.02	34.63
88024	Analysis	4.51	12.71	4.01	35.13
88030	Analysis	4.39	12.57	4.09	34.74
88079	Analysis	4.30	12.14	4.74	34.82
88097	Analysis	4.09	12.49	4.04	33.78
88457	Analysis	3.94	12.31	3.76	32.73
	Fidelity 6-10-7 Guarantee	6.00	10.00	7.00	39.40
87979	Analysis	6.20	9.84	7.23	40.02
	Fidelity 6-12-6 Guarantee	6.00	12.00	6.00	40.80
87978	Analysis	6.16	12.41	6.07	41.89
88006	Analysis	5.75	12.44	5.95	40.70

Table 6. Analysis of commercial fertilizer, season 1942-43

Laboratory Number	Manufacturer, place of business and brand	Nitrogen per cent	Available phosphoric acid, per cent	Potash, per cent	Valuation found, per ton
Fidelity Chemical Corporation, Houston, Texas—Continued					
	Fidelity 10-10-0 Guarantee	10.00	10.00		\$40.00
88042	Analysis	10.10	10.77		41.34
88078	Analysis	10.44	10.45		41.77
	Fidelity Nitrate of Soda Guarantee	16.00			41.60
87977	Analysis	16.08			41.81
	Fidelity 18% Superphosphate Guarantee		18.00		25.20
88029	Analysis		21.73		30.42
Gilmer Cotton Oil Co. & Fertilizer Co., Gilmer, Texas					
	Texas Longhorn 0-14-7 Guarantee		14.00	7.00	29.40
88542	Analysis		13.63	7.07	28.98
	Texas Longhorn 3-12-6 Guarantee	3.00	12.00	6.00	33.00
88285	Analysis	2.83	12.27	6.37	33.46
	Texas Longhorn 4-10-7 Guarantee	4.00	10.00	7.00	34.20
88281	Analysis	3.88	10.47	7.06	34.63
88357	Analysis	4.19	10.07	7.44	35.41
	Texas Longhorn Potato Fertilizer Guarantee	4.00	8.00	12.00	38.40
88284	Analysis	4.47	7.76	12.13	39.46
	Texas Longhorn Sure Crop Producer Guarantee	4.00	12.00	4.00	32.80
88283	Analysis	3.66	12.50	4.22	32.93
	Texas Longhorn 20% Superphosphate Guarantee		20.00		28.00
88543	Analysis		20.05		28.07
	Texas Longhorn Victory Garden Fertilizer For Food Production Only Guarantee	3.00	8.00	7.00	28.80
88282	Analysis	3.30	7.85	7.27	29.75
International Mineral and Chemical Corp., Texarkana, Ark.-Texas					
	International 0-14-7 Phosphate & Potash Guarantee		14.00	7.00	29.40
88374	Analysis		14.41	6.80	29.69
	International 3-12-6 Guarantee	3.00	12.00	6.00	33.00
88166	Analysis	2.86	12.40	6.15	33.41
88233	Analysis	3.05	12.55	6.10	34.04
88246	Analysis	3.02	12.10	6.18	33.34
88319	Analysis	3.01	12.06	6.23	33.43
88321	Analysis	2.92	12.10	6.38	33.46
88346	Analysis	3.00	12.27	6.11	33.53
88366	Analysis	2.87	12.21	6.10	33.09
88373	Analysis	2.93	12.23	6.35	33.63
88391	Analysis	2.78	11.71	7.04	33.48
88417	Analysis	3.26	12.38	6.16	34.43
88523	Analysis	2.89	12.49	6.42	33.99
88528	Analysis	2.75	13.12	5.83	33.68
88539	Analysis	3.04	12.42	6.25	34.04
88549	Analysis	2.87	12.82	5.51	33.12
88555	Analysis	3.01	12.44	6.08	33.76
88556	Analysis	2.72	12.52	6.33	33.98
88558	Analysis	2.77	11.80	5.74	31.76
88589	Analysis	2.82	12.76	6.01	33.60
	International 4-8-12 Guarantee	4.00	8.00	12.00	38.40
88288	Analysis	3.74	8.49	11.38	37.55
	International 4-10-7 Guarantee	4.00	10.00	7.00	34.20
88167	Analysis	3.81	10.74	7.20	35.03
88232	Analysis	3.90	10.22	6.72	33.86
88247	Analysis	3.70	10.54	7.05	34.25
88289	Analysis	3.96	10.31	7.09	34.66
88322	Analysis	3.94	10.00	7.21	34.40
88347	Analysis	3.73	10.04	7.07	33.66
88375	Analysis	3.77	10.91	6.79	34.58
88392	Analysis	3.67	10.06	7.05	33.49
88522	Analysis	3.91	10.52	6.85	34.49

Table 6. Analysis of commercial fertilizer, season 1942-43

Number Laboratory	Manufacturer, place of business and brand	Nitrogen per cent	Available phosphoric acid, per cent	Potash, per cent	Valuation found, per ton
International Mineral and Chemical Corp., Texarkana, Arkansas-Texas—Continued					
	International 4-12-4 Guarantee	4.00	12.00	4.00	\$32.80
88290	Analysis	3.75	12.63	3.89	32.88
88376	Analysis	3.84	12.44	3.65	32.51
	International 20% Superphosphate Guarantee		20.00		28.00
88320	Analysis		20.42		28.59
88393	Analysis		20.11		28.15
88524	Analysis		20.53		28.74
Jacksonville Fertilizer Company, Jacksonville, Texas					
	Red Totmato 3-12-6 Guarantee	3.00	12.00	6.00	33.00
88181	Analysis	3.33	12.00	6.47	34.52
88509	Analysis	3.15	12.52	6.48	34.79
	Red Tomato 4-8-12 Guarantee	4.00	8.00	12.00	38.40
88182	Analysis	3.60	8.21	13.81	40.18
88510	Analysis	3.59	10.19	13.27	42.18
	Red Tomato 4-10-7 Guarantee	4.00	10.00	7.00	34.20
88179	Analysis	4.09	10.78	7.39	36.07
	Red Tomato 4-12-4 Guarantee	4.00	12.00	4.00	32.80
88180	Analysis	4.24	12.65	4.40	34.89
Kelly, Weber & Company Inc., Lake Charles, Louisiana					
	Weber King Brand Fertilizer Special 3-12-6 Guarantee	3.00	12.00	6.00	33.00
88132	Analysis	3.06	12.31	6.48	34.26
	Weber King Brand Fertilizer Special 4-12-4 Guarantee	4.00	12.00	4.00	32.80
88128	Analysis	4.07	12.87	4.41	34.77
Longview Cotton Oil Company, Longview, Texas					
	Longview 3-8-7 "Victory Garden" Fertilizer For Food Production Only Guarantee	3.00	8.00	7.00	28.80
88251	Analysis	3.30	8.26	6.51	29.25
88255	Analysis	3.00	8.14	6.64	28.50
	Longview Special Fertilizer—High Grade Guarantee	4.00	12.00	4.00	32.80
88257	Analysis	4.29	12.40	4.31	34.54
	Longview Truck Special Fertilizer—High Grade Guarantee	4.00	10.00	7.00	34.20
88256	Analysis	4.18	9.38	7.17	34.04
Marshall Cotton Oil Company, Marshall, Texas					
	Marshall 3-8-5 Fertilizer Guarantee	3.00	8.00	5.00	26.00
88535	Analysis	3.10	8.22	5.04	26.63
88538	Analysis	2.78	7.60	5.07	24.97
	Marshall 3-8-7 "Victory Garden" Fertilizer For Food Production Only Guarantee	3.00	8.00	7.00	28.80
88265	Analysis	3.22	8.60	7.06	30.29
88536	Analysis	2.70	7.44	7.34	27.72
	Marshall 3-12-6 Fertilizer Guarantee	3.00	12.00	6.00	33.00
88258	Analysis	3.02	12.21	6.05	33.41
88268	Analysis	3.16	11.76	6.05	33.15
88489	Analysis	2.96	11.22	6.14	32.01
	Marshall 4-10-7 Fertilizer Guarantee	4.00	10.00	7.00	34.20
88267	Analysis	3.82	10.04	7.04	33.85
	Marshall 4-12-4 Fertilizer Guarantee	4.00	12.00	4.00	32.80
88266	Analysis	3.98	11.57	4.09	32.28
88537	Analysis	4.06	11.57	4.09	32.49
Mixson Brothers, Kirbyville, Texas					
	Jasco Brand Special No. 4-10-7 Guarantee	4.00	10.00	7.00	34.20
88106	Analysis	4.33	10.01	6.93	34.97
	Jasco Brand Special No. 4-12-4 Guarantee	4.00	12.00	4.00	32.80
88486	Analysis	4.08	11.60	4.52	33.18
	20% Superphosphate Guarantee		20.00		28.00
88107	Analysis		20.54		28.76

Table 6. Analysis of commercial fertilizer, season 1942-43

Laboratory Number	Manufacturer, place of business and brand	Nitrogen per cent	Available phosphoric acid, per cent	Potash, per cent	Valuation found, per ton
Oil Mill & Fertilizer Works, Henderson, Texas					
88249	Wolf Brand Fertilizer 3-12-6 Guarantee	3.00	12.00	6.00	\$33.00
	Analysis	3.02	12.46	6.08	33.80
88248	Wolf Brand Superphosphate 20% Guarantee		20.00		28.00
	Analysis		19.94		27.92
Pate Brothers Fertilizer Works, Sulphur Springs, Texas					
88581	Pate's Red Star Brand 0-14-7 Guarantee		14.00	7.00	29.40
	Analysis		12.84	7.02	22.81
88345	Pate's Red Star Brand 3-12-6 Guarantee	3.00	12.00	6.00	33.00
	Analysis	3.23	11.93	6.07	33.60
88353	Analysis	2.81	11.73	6.03	32.17
88362	Analysis	3.08	12.13	5.78	33.08
88579	Analysis	2.68	12.03	6.15	32.42
88344	Pate's Red Star Brand 4-10-7 Guarantee	4.00	10.00	7.00	34.20
	Analysis	3.65	10.16	7.10	33.11
88363	Pate's Red Star Brand 4-12-4 Guarantee	3.79	10.49	7.02	34.37
	Analysis	4.00	12.00	4.00	32.80
88343	Analysis	4.30	11.87	4.09	33.53
88354	Analysis	4.30	12.05	3.81	33.38
88361	Analysis	4.08	11.81	4.11	32.83
88387	Analysis	4.29	12.20	4.04	33.89
88396	Analysis	4.06	12.68	4.04	33.97
88580	Analysis	4.20	12.24	4.22	33.97
88388	Pate's Red Star Brand 20% Superphosphate Guarantee		20.00		28.00
	Analysis		20.14		28.20
88355	Victory Garden Fertilizer—For Food Production Only Guarantee	3.00	8.00	7.00	28.80
	Analysis	2.70	8.38	7.22	28.86
Pittsburg Cotton Oil Company, Pittsburg, Texas					
88298	4-10-7 Double Circle Fertilizer Guarantee	4.00	10.00	7.00	34.20
	Analysis	4.05	9.73	7.96	33.30
88301	4-12-4 Double Circle Fertilizer Guarantee	4.00	12.00	4.00	32.80
	Analysis	4.15	11.29	5.07	33.70
88583	20% Superphosphate		20.00		28.00
	Analysis		20.46		28.64
Port Fertilizer Company, Los Frenos, Texas					
88100	Valley Port Brand 10-10-0 Guarantee	10.00	10.00		40.00
	Analysis	10.16	10.79		41.53
88049	Analysis	10.12	9.79		40.02
87996	Valley Port Brand 10-20-0 Guarantee	10.00	20.00		54.00
	Analysis	11.15	18.83		55.35
88048	Valley Port Brand Nitrate of Soda Fertilizer Guarantee	16.00			41.60
	Analysis	16.20			42.12
88060	Valley Port Brand 20.6% Sulphate of Ammonia Guarantee	20.60			53.56
	Analysis	20.66			53.72
Shreveport Fertilizer Works, Shreveport, Louisiana					
88102	Lion 3-12-6 Fertilizer Guarantee	3.00	12.00	6.00	33.00
	Analysis	3.07	12.53	5.54	33.28
88130	Analysis	3.05	12.57	6.12	34.10
88168	Analysis	3.14	11.91	6.12	33.40
88242	Analysis	3.09	12.55	6.06	34.04
88315	Analysis	2.94	12.25	5.48	32.46
88328	Analysis	3.08	12.44	5.66	33.35
88334	Analysis	3.05	13.07	5.34	33.71
88386	Analysis	3.01	12.08	6.31	33.57
88492	Analysis	3.34	13.23	6.07	35.70
88494	Analysis	3.02	12.50	6.78	34.84
88561	Analysis	3.19	12.60	5.19	33.13
	Lion 4-10-7 Guarantee	4.00	10.00	7.00	34.20
88100	Analysis	3.95	10.82	6.86	35.02

Table 6. Analysis of commercial fertilizer, season 1942-43

Laboratory Number	Manufacturer, place of business and brand	Nitrogen per cent	Available phosphoric acid, per cent	Potash, per cent	Valuation found, per ton
Shreveport Fertilizer Works, Shreveport, La.—Continued					
	Lion 4-10-7 Guarantee—Continued.....	4.00	10.00	7.00	\$34.20
88169	Analysis	3.75	10.78	6.27	33.62
88316	Analysis	3.99	10.46	7.11	34.96
88333	Analysis	4.02	10.87	6.44	34.69
88493	Analysis	3.75	11.73	7.58	36.78
	Lion 4-12-4 Guarantee	4.00	12.00	4.00	32.80
88101	Analysis	3.97	12.43	4.28	33.71
88327	Analysis	3.70	12.20	4.54	33.06
	Longhorn 3-12-6 Guarantee	3.00	12.00	6.00	33.00
88114	Analysis	3.11	12.54	6.30	34.47
88131	Analysis	3.13	12.65	5.24	33.19
88401	Analysis	2.94	12.82	6.51	34.70
	Longhorn 4-10-7 Guarantee	4.00	10.00	7.00	34.20
88115	Analysis	3.84	11.31	6.33	34.67
88402	Analysis	4.29	11.47	6.74	36.65
	Longhorn 4-12-4 Guarantee	4.00	12.00	4.00	32.80
88500	Analysis	3.87	13.86	4.31	35.49
	Superphosphate 20% Available P ₂ O ₅ Guarantee		20.00		28.00
88229	Analysis		20.48		28.67
Southwestern Peanut Growers Association, Gorman, Texas					
	Pabak Brand 3-12-6 Guarantee	3.00	12.00	6.00	33.00
88435	Analysis	3.16	12.08	6.25	33.88
88439	Analysis	5.31	7.61	6.33	33.32
88441	Analysis	3.55	11.07	6.11	33.19
	Pabak Brand 4-12-4 Guarantee	4.00	12.00	4.00	32.80
88440	Analysis	4.22	12.03	4.44	33.61
Stockdale Fertilizer Company, Morris, Illinois					
	Ovene (sheep manure) Guarantee	2.00	1.00	2.00	9.40
88011	Analysis	2.46	1.56	3.74	13.82
Swift & Company Fertilizer Works, Houston Texas and Harvey & Shreveport, Louisiana					
	Swift's Red Steer Brand 0-14-7 Guarantee		14.00	7.00	29.40
88034	Analysis		13.52	8.00	30.13
	Swift's Red Steer Brand 3-15-0 Guarantee	3.00	15.00		28.80
88173	Analysis	3.41	14.34		28.94
	Swift's Red Steer Brand 3-12-6 Guarantee	3.00	12.00	6.00	33.00
88027	Analysis	3.08	11.82	6.06	33.04
88035	Analysis	3.14	11.75	6.05	33.08
88039	Analysis	3.03	11.88	6.03	32.95
88076	Analysis	3.15	11.91	5.81	32.99
88080	Analysis	3.14	12.42	5.80	33.67
88104	Analysis	3.08	12.04	5.76	32.93
88122	Analysis	3.11	11.72	6.01	32.91
88133	Analysis	3.16	11.85	5.89	33.06
88172	Analysis	3.07	11.71	5.72	32.38
88188	Analysis	3.11	11.78	6.05	33.05
88243	Analysis	2.92	12.50	5.83	33.25
88286	Analysis	2.97	12.16	6.08	33.25
88303	Analysis	2.97	12.07	6.11	33.17
88329	Analysis	3.01	12.08	6.05	33.21
88356	Analysis	2.91	12.21	5.73	32.70
88378	Analysis	3.01	12.06	6.05	33.18
88395	Analysis	3.08	12.24	6.12	33.72
88424	Analysis	3.08	12.24	6.32	34.00
88445	Analysis	3.03	11.90	5.79	32.65
88447	Analysis	2.96	13.03	5.77	34.02
88451	Analysis	3.08	11.99	6.10	33.34
88458	Analysis	3.09	11.91	6.04	33.16
88465	Analysis	3.04	12.06	5.88	33.01
88468	Analysis	3.13	12.38	6.04	33.93
88469	Analysis	2.99	12.19	5.76	32.83

Table 6. Analysis of commercial fertilizer, season 1942-43

Laboratory Number	Manufacturer, place of business and brand	Nitrogen per cent	Available phosphoric acid, per cent	Potash, per cent	valuation found, per ton
Swift & Company Fertilizer Works, Houston, Texas, and Harvey and Shreveport, Louisiana—Continued					
	Swift's Red Steer Brand 3-12-6 Guarantee—Continued	3.00	12.00	6.00	\$33.00
88477	Analysis	3.08	12.51	6.04	33.98
88488	Analysis	3.06	11.95	5.72	32.70
88504	Analysis	2.96	12.12	5.74	32.71
88507	Analysis	3.01	12.41	5.69	33.17
88527	Analysis	2.97	12.67	5.72	33.47
88529	Analysis	3.04	12.41	6.09	33.80
88532	Analysis	3.12	11.90	6.66	34.09
88547	Analysis	3.01	12.31	5.59	32.89
88550	Analysis	2.93	12.23	5.80	32.86
88567	Analysis	2.90	12.30	6.37	33.68
88572	Analysis	2.94	12.54	6.24	33.94
88577	Analysis	2.91	12.03	6.24	33.15
88592	Analysis	3.05	12.35	6.05	33.69
	Swift's Red Steer Brand 4-12-4 Guarantee	4.00	12.00	4.00	32.80
87974	Analysis	3.92	12.94	4.28	34.30
87980	Analysis	4.16	12.15	4.54	34.19
88021	Analysis	4.02	11.90	3.84	32.49
88032	Analysis	4.19	11.86	4.02	33.12
88036	Analysis	4.10	12.04	3.96	33.06
88077	Analysis	4.15	11.78	4.33	33.34
88105	Analysis	4.03	12.43	4.04	33.55
88151	Analysis	4.05	12.05	4.22	33.31
88170	Analysis	4.06	11.79	4.09	32.80
88189	Analysis	4.07	12.04	4.06	33.12
88227	Analysis	4.20	12.21	4.18	33.86
88245	Analysis	3.96	12.50	3.94	33.32
88278	Analysis	4.08	12.04	4.22	33.38
88302	Analysis	3.96	12.26	4.15	33.27
88330	Analysis	3.96	12.00	3.87	32.52
88379	Analysis	3.92	12.47	4.08	33.36
88423	Analysis	4.03	12.58	4.30	34.13
88432	Analysis	3.97	12.19	4.68	33.94
88459	Analysis	4.04	12.14	3.87	32.92
88464	Analysis	3.88	12.33	3.75	32.60
88481	Analysis	4.19	12.40	4.12	34.02
88508	Analysis	3.40	12.57	4.37	32.56
88511	Analysis	3.84	12.50	4.03	33.12
88530	Analysis	3.88	12.55	3.87	33.58
88562	Analysis	3.91	12.20	4.06	32.93
88569	Analysis	3.88	12.17	4.28	33.12
	Swift's Red Steer 4-8-12 Guarantee	4.00	8.00	12.00	38.40
88287	Analysis	3.96	8.28	12.02	38.72
88546	Analysis	3.46	8.36	12.16	37.72
88568	Analysis	3.78	8.56	12.06	38.69
88578	Analysis	3.87	8.36	11.57	37.96
	Swift's Red Steer Brand 4-10-7 Guarantee	4.00	10.00	7.00	34.20
88023	Analysis	3.91	9.72	7.35	34.07
88033	Analysis	4.00	11.39	4.67	32.89
88040	Analysis	4.02	11.32	4.41	32.47
88081	Analysis	4.19	10.20	6.66	34.51
88123	Analysis	3.98	9.73	6.82	33.52
88134	Analysis	4.09	10.15	6.80	34.36
88171	Analysis	4.12	9.90	6.63	33.85
88190	Analysis	4.06	10.04	6.78	34.11
88244	Analysis	4.06	10.44	6.81	34.71
88384	Analysis	3.96	10.87	6.59	34.05
88394	Analysis	3.99	10.56	6.78	34.64
88470	Analysis	4.29	9.93	7.14	35.05
88499	Analysis	3.09	11.42	5.55	31.29
88548	Analysis	3.76	10.63	6.12	33.23
88551	Analysis	3.89	10.63	6.59	34.22

Table 6. Analysis of commercial fertilizer, season 1942-43

Laboratory Number	Manufacturer, place of business and brand	Nitrogen per cent	Available phosphoric acid, per cent	Potash, per cent	Valuation found, per ton
Swift & Company Fertilizer Works, Houston, Texas, and Harvey and Shreveport, Louisiana—Continued					
	Swift's Red Steer Brand 6-12-6 Guarantee	6.00	12.00	6.00	40.80
87981	Analysis	5.92	12.26	6.20	41.23
	Nitrate of Soda Guarantee	16.00			41.63
87975	Analysis	16.12			41.91
	Swift's Red Steer Brand Superphosphate 20% Guarantee		20.00		28.00
88444	Analysis		20.24		28.84
88450	Analysis		20.91		29.27
	Vigoro Victory Garden Fertilizer—For Food Production Only Guarantee	3.00	8.00	7.00	28.70
88215	Analysis	2.80	8.81	6.84	29.19
88421	Analysis	3.17	8.46	7.51	30.59
88425	Analysis	3.18	8.68	7.04	30.28
88433	Analysis	3.21	8.01	7.05	39.43
	Vigoro Guarantee	4.00	12.00	4.00	32.80
87982	Analysis	4.22	12.67	4.31	34.74
87983	Analysis	4.21	12.69	4.23	34.64
87998	Analysis	4.09	12.28	4.45	34.05
88001	Analysis	4.23	10.99	4.32	32.44
88152	Analysis	4.17	12.08	4.31	33.78
88503	Analysis	4.15	12.00	4.36	33.69
88518	Analysis	4.20	12.98	4.07	34.79
Temple Cotton Oil Company, North Little Rock, Arkansas					
	Quapaw 4-8-12 Guarantee	4.00	8.00	12.00	38.40
88565	Analysis	3.47	7.39	18.39	45.12
	Quapaw 4-10-7 Guarantee	4.00	10.00	7.00	34.20
88566	Analysis	3.63	8.87	7.23	31.98
	Quapaw 3-12-6 Guarantee	3.00	12.00	6.00	33.00
88325	Analysis	3.16	11.36	7.00	35.06
88326	Analysis	3.16	10.87	6.81	32.97
88564	Analysis	3.01	11.74	5.81	32.40
Texas Farm Products Company, Nacogdoches, Texas					
	Lone Star Brand 3-5-8 Fertilizer Guarantee	3.00	8.00	5.00	26.00
88449	Analysis	3.01	8.39	5.10	26.72
88496	Analysis	2.82	8.17	5.02	25.80
88497	Analysis	2.75	8.47	5.00	26.01
88505	Analysis	2.62	7.00	5.06	23.69
88512	Analysis	2.89	7.83	5.02	25.50
88575	Analysis	2.91	8.67	4.13	25.49
	Lone Star Brand 3-12-6 Guarantee	3.00	12.00	6.00	33.00
88112	Analysis	2.98	12.53	5.73	33.31
88124	Analysis	3.04	12.07	6.08	33.31
88137	Analysis	2.91	11.67	5.67	31.85
88146	Analysis	3.01	12.27	6.16	33.63
88162	Analysis	3.00	11.87	8.30	36.04
88194	Analysis	2.93	11.78	6.03	32.55
88269	Analysis	3.00	12.22	6.12	33.48
88351	Analysis	2.98	12.03	6.11	33.14
88398	Analysis	3.01	12.01	6.28	33.43
88400	Analysis	3.02	12.21	6.04	33.46
88413	Analysis	2.99	12.13	6.01	33.16
88448	Analysis	2.92	12.35	6.04	33.34
88513	Analysis	2.93	11.69	5.76	32.05
	Lone Star Brand 4-10-7 Guarantee	4.00	10.00	7.00	34.20
88103	Analysis	3.98	10.12	6.87	34.14
88125	Analysis	3.97	10.69	7.11	35.24
88138	Analysis	4.07	10.45	7.05	35.08
88147	Analysis	4.10	10.65	7.36	35.87
88185	Analysis	4.05	10.44	7.06	35.03
88196	Analysis	4.01	10.37	6.92	34.64
88473	Analysis	3.95	10.08	7.25	34.53
88485	Analysis	3.84	10.40	6.83	34.10

Table 6. Analysis of commercial fertilizer, season 1942-43

Laboratory Number	Manufacturer, place of business and brand	Nitrogen per cent	Available phosphoric acid, per cent	Potash, per cent	per ton Valuation found.
Texas Farm Products Company, Nacogdoches, Texas—Continued					
	Lone Star Brand 4-10-7 Guarantee—Continued.....	4.00	10.00	7.00	\$34.20
88498	Analysis	3.89	10.31	5.95	32.87
88541	Analysis	3.92	10.10	6.17	32.97
	Lone Star Brand 4-12-4 Guarantee	4.00	12.00	4.00	32.80
88113	Analysis	4.09	12.09	4.09	33.29
88129	Analysis	4.01	12.05	4.07	33.00
88136	Analysis	4.03	11.97	4.07	32.94
88184	Analysis	4.21	12.32	4.09	33.93
88195	Analysis	4.48	12.08	4.06	34.24
88270	Analysis	4.01	11.91	4.04	32.76
88352	Analysis	4.01	15.05	4.08	33.01
88399	Analysis	4.01	12.39	4.10	33.52
88452	Analysis	3.88	12.27	4.31	33.30
88484	Analysis	3.76	12.86	4.17	33.62
	Lone Star Brand 20% Superphosphate Guarantee		20.00		28.00
88139	Analysis		20.01		28.01
Tyler Fertilizer Company, Tyler, Texas					
	3-12-6 Heart Brand Guarantee	3.00	12.00	6.00	33.00
88293	Analysis	3.27	11.51	7.05	34.48
	4-10-7 Heart Brand Guarantee	4.00	10.00	7.00	34.20
88202	Analysis	3.80	9.63	7.39	33.71
88207	Analysis	3.59	10.05	7.11	33.35
88220	Analysis	4.04	9.96	6.85	34.03
88410	Analysis	4.27	10.17	6.65	34.65
88516	Analysis	5.00	7.67	6.32	31.71
88519	Analysis	3.78	10.51	5.94	32.86
88520	Analysis	4.85	8.82	5.81	33.09
	4-12-4 Heart Brand Guarantee	4.00	12.00	4.00	32.80
88203	Analysis	3.91	12.17	4.35	33.30
88208	Analysis	4.19	11.66	4.00	32.81
88221	Analysis	4.02	12.04	4.24	33.25
88292	Analysis	4.40	11.59	4.92	34.56
88409	Analysis	4.35	12.20	4.27	34.27
	Muriate of Potash Guarantee			50.00	70.00
88584	Analysis			56.88	79.63
United Chemical Company, Dallas, Texas					
	Sunset Brand 3-12-6	3.00	12.00	6.00	33.00
88141	Analysis	3.28	12.27	6.05	34.18
88238	Analysis	3.30	12.27	6.25	34.51
88310	Analysis	3.27	11.69	5.65	32.78
88390	Analysis	3.62	12.23	4.97	33.49
88404	Analysis	3.27	11.23	5.82	32.47
88418	Analysis	3.24	12.75	6.07	34.77
88471	Analysis	3.07	12.32	5.95	33.56
88563	Analysis	3.38	11.74	6.17	33.87
88573	Analysis	3.49	11.65	6.29	34.19
88582	Analysis	3.37	12.11	6.26	34.47
88587	Analysis	3.30	12.10	6.41	34.49
88590	Analysis	3.32	11.63	6.40	33.87
	Sunset Brand 4-10-7 Guarantee	4.00	10.00	7.00	34.20
88117	Analysis	4.25	10.66	6.50	35.07
88142	Analysis	4.26	10.21	7.08	35.28
88237	Analysis	4.34	10.27	7.13	35.64
88311	Analysis	4.21	10.03	7.20	35.07
88406	Analysis	4.22	10.39	6.80	35.04
88431	Analysis	4.10	10.03	6.63	33.98
	Sunset Brand 4-12-4 Guarantee	4.00	12.00	4.00	32.80
88116	Analysis	4.55	12.12	4.33	34.86
88183	Analysis	4.45	12.40	4.09	34.66

Table 6. Analysis of commercial fertilizer, season 1942-43

Laboratory Number	Manufacturer, place of business and brand	Nitrogen per cent	Available phosphoric acid, per cent	Potash, per cent	Valuation found, per ton
United Chemical Company, Dallas, Texas,—Continued					
	Sunset Brand 4-12-4 Guarantee—Continued.....	4.00	12.00	4.00	\$32.80
88239	Analysis	4.41	12.06	4.16	34.17
88367	Analysis	4.28	12.20	4.43	34.41
88389	Analysis	4.24	12.81	4.06	34.63
88405	Analysis	4.39	12.87	3.83	34.79
88472	Analysis	4.45	12.40	4.49	35.22
	4D Brand Sheep Manure 2-2-2 Guarantee	2.00	2.00	2.00	10.80
88426	Analysis	2.00	1.36	2.54	10.66
	United Plantfood 4-12-4 Guarantee	4.00	12.00	4.00	32.80
88430	Analysis	4.21	11.94	3.59	32.70
	United Victory Garden Fertilizer 3-8-7 For Food Production Only Guarantee	3.00	8.00	7.00	28.80
88428	Analysis	3.45	8.26	7.01	30.34
	United Plant Food 3-12-6 Guarantee	3.00	12.00	6.00	33.00
88250	Analysis	3.31	12.04	6.08	33.98
88397	Analysis	3.31	12.30	5.64	33.73
88429	Analysis	3.12	11.26	6.42	32.86
88466	Analysis	3.36	12.02	6.08	34.05
	United Velvet Green Lawn and Garden Fertilizer Guarantee	4.00	12.00	4.00	32.80
88422	Analysis	3.80	12.96	4.10	33.76
88427	Analysis	3.90	12.29	4.32	33.40
Virginia Carolina Chemical Corporation, Shreveport, Louisiana					
	V-C Fertilizer 0-14-7 Guarantee		14.00	7.00	29.40
88085	Analysis		14.38	7.21	30.29
88121	Analysis		14.26	7.01	29.77
88201	Analysis		14.27	7.03	29.82
88453	Analysis		14.50	7.05	30.17
88461	Analysis		14.88	7.02	29.97
	V-C Fertilizer 3-15-0 Guarantee	3.00	15.00		28.00
88093	Analysis	3.14	15.40		29.72
	V-C Fertilizer 3-12-6 Guarantee	3.00	12.00	6.00	33.00
88012	Analysis	3.19	12.33	6.05	34.02
88083	Analysis	3.21	12.42	5.97	34.10
88092	Analysis	3.27	12.33	6.02	34.19
88118	Analysis	3.26	12.27	6.09	34.19
88176	Analysis	3.17	12.46	6.08	34.19
88197	Analysis	3.12	12.34	6.05	33.86
88217	Analysis	3.15	12.59	6.09	34.35
88228	Analysis	3.18	12.28	6.03	33.90
88240	Analysis	3.22	12.47	6.06	34.31
88262	Analysis	3.18	12.13	6.08	33.76
88294	Analysis	3.15	12.47	6.36	34.55
88307	Analysis	2.97	12.34	6.06	33.48
88324	Analysis	3.10	12.42	6.14	34.05
88331	Analysis	3.08	12.49	6.11	34.05
88360	Analysis	3.17	12.37	5.63	33.44
88369	Analysis	3.14	12.12	6.04	33.59
88407	Analysis	3.18	12.46	5.48	33.38
88460	Analysis	2.83	13.14	5.84	33.94
88531	Analysis	3.08	12.50	6.10	34.05
88533	Analysis	3.11	12.76	6.05	34.42
88544	Analysis	3.08	12.59	6.08	34.15
88552	Analysis	3.10	12.72	5.65	33.78
88576	Analysis	2.90	11.65	7.39	34.20
88585	Analysis	3.15	11.70	6.47	33.63
88588	Analysis	3.10	11.74	6.61	33.75

Table 6. Analysis of commercial fertilizer, season 1942-43

Laboratory Number	Manufacturer, place of business and brand	Nitrogen per cent	Available phosphoric acid, per cent	Potash, per cent	Valuation found, per ton
Virginia Carolina Chemical Corporation, Shreveport, Louisiana—Continued					
	V-C Fertilizer 4-8-12 Guarantee	4.00	8.00	12.00	\$38.40
88015	Analysis	3.94	8.63	11.88	38.25
88119	Analysis	3.92	8.68	12.22	39.45
88175	Analysis	3.86	8.91	12.03	39.35
88199	Analysis	3.82	9.36	10.62	37.90
88216	Analysis	4.04	8.64	11.65	38.91
88359	Analysis	3.95	8.68	12.13	39.40
	V-C Fertilizer 4-10-7 Guarantee	4.00	10.00	7.00	34.20
88014	Analysis	4.01	10.64	7.47	35.79
88084	Analysis	4.06	10.47	7.06	35.10
88135	Analysis	4.09	10.56	7.02	35.24
88163	Analysis	3.95	10.64	7.26	35.33
88178	Analysis	3.98	10.57	7.22	35.26
88200	Analysis	4.02	10.27	7.05	34.70
88263	Analysis	1.29	13.14	7.11	31.70
88358	Analysis	4.04	10.21	6.96	34.52
88408	Analysis	3.95	10.63	7.09	35.08
	V-C Fertilizer 4-12-4 Guarantee	4.00	12.00	4.00	32.80
88013	Analysis	4.21	12.48	4.26	34.38
88120	Analysis	4.25	12.56	4.33	34.69
88164	Analysis	4.27	12.45	4.13	34.31
88177	Analysis	4.19	12.58	4.21	34.39
88198	Analysis	4.21	12.36	4.20	34.13
88218	Analysis	4.18	12.57	4.23	34.39
88305	Analysis	4.18	12.16	4.29	33.90
88233	Analysis	4.04	12.29	4.27	33.69
88571	Analysis	3.71	12.47	4.06	32.79
	V-C 20% Superphosphate Guarantee		20.00		28.00
88308	Analysis		21.07		29.50
88454	Analysis		21.51		30.11
88462	Analysis		20.48		28.67
88553	Analysis		21.96		30.74
	V-C Victory Garden Fertilizer—For Food Production Only Guarantee	3.00	8.00	7.00	28.80
88219	Analysis	3.16	8.68	7.07	30.27
88264	Analysis	3.21	8.65	7.22	30.57
88306	Analysis	2.72	8.74	6.81	28.84
88332	Analysis	2.97	8.43	7.27	29.70
Waldo Fertilizer Works, Waldo, Ark.					
	Victory 3-12-6 Guarantee	3.00	12.00	6.00	33.00
88317	Analysis	3.00	12.43	6.53	34.34
88335	Analysis	3.74	11.23	6.30	34.26
88341	Analysis	3.08	12.10	6.11	33.50
	Victory 4-10-7 Guarantee	4.00	10.00	7.00	34.20
88318	Analysis	3.98	11.86	5.47	34.61
88336	Analysis	3.71	12.11	5.64	34.50
88342	Analysis	3.36	10.92	6.79	33.54