

TEXAS AGRICULTURAL EXPERIMENT STATION

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Bulletin 714

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COMMERCIAL FERTILIZERS

IN 1948-49

J. F. FUDGE, State Chemist

T. L. OGIER, Associate State Chemist

Department of Agronomy

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September 1949



The TEXAS AGRICULTURAL AND MECHANICAL COLLEGE SYSTEM

GIBB GILCHRIST, Chancellor

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Preface

This is the 47th annual fertilizer bulletin. It contains information regarding the Texas fertilizer law, statistics concerning the sale of fertilizer during the 1948-49 season and analyses of 1,893 official samples of fertilizer sold by different manufacturers.

The amendments to the fertilizer law changing the method of payment of inspection fees, which were passed by the 51st Legislature on May 13, 1949, and became effective immediately, are quoted.

Fertilizer inspection fees equivalent to 492,541 tons of fertilizers were collected during the period from September 1, 1948, through August 31, 1949. This tonnage was about 9 percent higher than that sold in 1947-48. The 4-12-4 and 5-10-5 grades of mixed fertilizers accounted for about 87 percent of the mixed goods sold. Superphosphate (20 percent) accounted for about 75 percent of the fertilizer materials sold.

Tables are given which compare the valuations of the fertilizers sold by different manufacturers, as based upon actual analyses of official samples, with guaranteed valuations and selling prices, and show the extent to which the various fertilizer manufacturers met or exceeded their guarantees.

C O N T E N T S

	Page
Introduction.....	3
Some Requirements of the Texas Fertilizer Law.....	5
Fertilizer Grades to Be Sold During 1949-50.....	7
The Texas Fertilizer Committee.....	8
Brands and Trade-marks Registered with the State Chemist.....	9
Inspection Fees Collected During 1948-49.....	10
Tonnage Sales of Different Grades of Fertilizers.....	10
Valuation per Ton.....	12
Composition and Selling Price of Different Grades of Fertilizers	13
Average Cost of Nitrogen, Available Phosphoric Acid and Potash.....	13
Relation of Valuation Guaranteed to Valuation Found.....	15
How to Secure Free Analysis of Fertilizers.....	17
Publications Dealing with the Use of Fertilizers.....	17
Analyses of Fertilizers, 1948-49.....	19
Summary.....	19

Commercial Fertilizers in 1948-49

J. F. FUDGE, State Chemist, and T. L. OGIER, Associate State Chemist
Department of Agronomy

This is the 47th annual fertilizer bulletin published in compliance with the Texas fertilizer law, which requires that the State Chemist shall issue at least one bulletin annually setting forth the analyses of fertilizers made under the provisions of the fertilizer law, the operations of the law, and other information pertaining to the sale of fertilizer in Texas.

SOME REQUIREMENTS OF THE TEXAS FERTILIZER LAW

The law governing the sale of commercial fertilizers in Texas is found in Chapter Twelve of Title Nineteen of the Revised Criminal Statutes, 1925, and in Chapter Five of Title Four of Texas Civil Statutes, 1925. A summary of some important requirements of the law is given below. For further requirements, penalties, definitions and other detailed information, reference should be made to the full text of the law. Copies of the law will be furnished by the State Chemist upon request.

Materials covered by the law. All mixed fertilizers and fertilizer materials and all other substances which have or are claimed to have a beneficial effect on the soil or to promote the growth of crops, come under the law, with the exception of lime, limestone, marl, unground bones, stockpen manure, barnyard manure, or the excrement of any domestic animal in case that said manure or excrement has not been dried or manipulated or otherwise treated, or is not claimed to have a value of more than \$4.00 a ton.

Registration. Before a fertilizer is offered for sale or is sold in Texas, it must be registered with the State Chemist of Texas. All registrations expire on August 31 of each year, and new applications for registration must be submitted for each year. Application blanks for registration are furnished by the State Chemist, College Station, Texas, upon request. The application blank must be filled out and sent to the State Chemist together with a copy of the printed bag or tag to be used. Such a bag or tag must meet the requirements of the fertilizer law. Wording on the printed bag or tag must agree exactly with the wording on the application for registration, and no change may be made in the wording of the bag or tag after

it has been registered. Any such change requires a new registration.

The application for registration must state all of the materials used in the fertilizer, including the filler or conditioner, and these materials must be used in all batches. A change may be made only if the change meets the requirements of the law and the State Chemist is notified.

No brand name identical with or so similar to a brand name previously registered by another manufacturer as to lead to confusion can be accepted. No name which is misleading as to the ingredients of the fertilizer can be accepted. The grade of mixed fertilizers should be part of the brand name; for example, Jupiter Brand 20 percent Superphosphate or Mars Brand 5-10-5 Fertilizer.

Labels. The law requires the following information to be printed on the bag or on a tag attached to the bag:

Net weight of content of the bag.

Name of fertilizer in full.

Name and address of manufacturer, manipulator or guarantor.

Guaranteed analysis (in the order given below):

Nitrogen, percent

Available phosphoric acid, percent

Potash, percent

Nitrogen refers to the total nitrogen (N) present. Such terms as "ammonia" or "equivalent to ammonia" cannot be used.

Available phosphoric acid (P_2O_5) must be guaranteed in all mixed fertilizers and in all fertilizer materials, with the following exceptions. Total phosphoric acid may be guaranteed in bone meal, tankage or other similar products, but where this is done, no guarantee of available phosphoric acid can be used. If it is desired to claim available phosphoric acid only, the guarantee must take the form set forth above.

Potash (K_2O) refers to potash soluble in distilled water. No other guarantee or term can be used.

Inspection fees. To finance the inspection of fertilizers and the collection and analyses of official samples of fertilizer, experiments relative to the value of fertilizers, and for certain other purposes, the law imposes an inspection tax of 25 cents per ton upon all fertilizers sold or offered for sale in Texas. This tax was formerly paid by means of fertilizer tax tags attached to fertilizer containers. However, on May 13, 1949,

the 51st Legislature of the State of Texas passed amendments to certain sections of the Criminal Statutes and the Civil Statutes, effective immediately upon passage, requiring the fertilizer inspection fee to be paid on the basis of and accompanying sworn quarterly statements of sales. A full text of these amendments is given at the end of this bulletin.

Bulk sales. Fertilizer in bulk for manufacturing purposes can be shipped only to the factory of a manufacturer who has registered fertilizer for sale in Texas.

Fertilizer in bulk cannot be sold to dealers, but dealers may register fertilizers in their own names and the fertilizer can then be sold after being bagged and labeled by them.

Registered fertilizers may be sold in bulk by manufacturers, manipulators or guarantors to persons, individuals or firms for their own use on their own lands, but not for resale or distribution, under rules prescribed by the State Chemist. The inspection fee must be paid upon all such sales. All authorizations to sell fertilizer in bulk expire August 31 of each year.

Report of sales. A report of each sale or shipment of fertilizer within or into Texas must be mailed to the State Chemist within 3 days after such sale or shipment. These reports must be made by sending to the State Chemist a copy of the invoice used in billing the customer. The invoices must be numbered, and the same number cannot be used twice during the same year. Reports of sales in bulk to manufacturers must be marked "for manufacturing purposes." Reports of sales in bulk to individuals for their own use on their own land must be marked "bulk sale to consumer."

FERTILIZER GRADES TO BE SOLD DURING 1949-50

The grade of a mixed fertilizer is stated in numbers representing the guaranteed analysis as percentages of nitrogen, available phosphoric acid and water-soluble potash. For example, a grade of 5-10-5 means that the fertilizer is guaranteed by the manufacturer to contain 5 percent nitrogen, 10 percent available phosphoric acid and 5 percent soluble potash. Fertilizers are frequently referred to by these numbers, which form a short and accurate description of the fertilizer. The term grade may also refer to the percentage of a constituent in a fertilizer material, as in 20 percent superphosphate. Wherever practicable, the grade of a fertilizer or fertilizer material should be included as part of the full name of the fertilizer required on the bag or tag.

The grades of mixed farm fertilizers sold in Texas have been limited in number for over 20 years. This limitation and standardization assists 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 specialist to make definite recommendations, and reduces the cost of manufacture and handling, thereby reducing the cost of the fertilizer to the consumer. The grades of mixed farm fertilizers to be approved in Texas during a given year are decided upon by the Texas Fertilizer Committee after a public hearing at which manufacturers and others interested may present recommendations. This public hearing is usually held in cooperation with fertilizer control officials, agricultural specialists and manufacturers of Texas, Louisiana, Arkansas, Oklahoma and New Mexico. The list of approved grades is published in the annual fertilizer bulletin and may also be obtained upon request to the State Chemist.

The Texas Fertilizer Committee has approved the following grades of mixed fertilizers for registration during the year starting September 1, 1949:

0-12-12	5-10-5	10-10-0
0-14-7	6-8-12	10-10-5
3-12-12	6-10-4	12-0-12
4-8-8	7-14-0	12-15-0
4-12-4	8-8-8	21-14-0
4-12-8		

The Texas Fertilizer Committee has also approved the registration of higher grades of the same ratios of plant food, as listed above. For example, the grades of 6-12-6, 10-20-10 and 12-24-12 would be approved for registration as grades having the same ratio (1-2-1) as the 5-10-5 grade. The grades of 4-16-0 and 16-20-0 are approved as materials (ammoniated superphosphate and ammonium phosphate-sulphate, respectively).

THE TEXAS FERTILIZER COMMITTEE

The Texas Fertilizer Committee, composed of agricultural subject-matter specialists of the Texas Agricultural and Mechanical College System and representatives of the United States Department of Agriculture, is appointed by the Director of the Texas Agricultural Experiment Station to advise and assist the State Chemist in the discharge of certain of his duties, particularly with respect to grades of mixed fertilizer to be approved for registration during the coming year. This

committee for the current fertilizer year is composed of the following individuals:

J. F. Fudge, State Chemist, Chairman
 J. E. Adams, Head, Department of Agronomy
 G. W. Adriance, Head, Department of Horticulture
 F. R. Brison, Professor of Horticulture
 E. A. Miller, Extension Agronomist
 O. J. Moss, Production and Marketing Administration,
 United States Department of Agriculture
 E. B. Reynolds, Professor of Agronomy
 J. F. Rosborough, Extension Horticulturist
 M. K. Thornton, Extension Agricultural Chemist

Brands and Trade-marks Registered with the State Chemist. The law requires the State Chemist to publish annually a list of brands or trade-marks registered with him. The following is a list of brands and trade-marks registered with the State Chemist during 1948-49:

Advance	Eto	Mr. O's	Smith Nitro-Phos
Aero	Farmers	Na-Churs	Smith Top Notch
Agco	Ferti-Lome	Niagara	Soylaid
AleXite	Fertil-Spray	N. J.	Star
All Crop	Fidelity	Old Black Joe	Stauffer's
All-Weather	Ford	Ormico	Sul-Po-Mag
Arcadian	Fourleaf	Ovene	Sul-Tech
Armstrong's Prescription	Ful-O-Vim	Owl	Sul-Tex
Arrow	Garden Master	Pabak	Swift's Red Steer
Bactex	G & O	Pecos Orla	T. C. C.
Bem Brand	Goldenrod	Phillips	Terra Food
Ben Franklin	Good Earth	Plainsman	Terra Lite
Best	Green Acres	Plantabbs	Texas Liquid
Best Bet	Gro-Crop	Plant-Chem	Texas Longhorn
Big Crop	Gro-more	Purina	Three Star
Blenn	Heart	Rab-Bit	Thorobred
Boostaplant	Heid Bros. (H. B.)	Ra-Pid-Gro	Top Crop
Blumes	Hu-Actinite	Red Seal	Topper
Burbank	Hy-Gro	Red Star	Twin Rose
C. C. I.	Hyponex	Red Tomato	Valley
Cal-Nitro	International	Reliance	Valley Gro
Capital	K-W	Robin	Valley Port
Chief	La-Tex	Sasco	V-C
Chilean	Life	Scott's	Velvet Green
Clark's	Lion	Schrock	Victory
Collosfos	Liqua-Vita	Se-Bo-Phos	Vigoro
Co-op	Loma	Silver Tip	Vita-Gro
Cross Country	Lone Star	Smith Big Yield	Weber-King
Davco	Lonfoscó	Smith Commander	Wesco
Davey Tree Food	Longhorn	Smith Gro-Grain	White Diamond
Dogie Pickup	Marshall	Smith Gro-Green	Winter Garden
Double Circle	Min-Coll	Smith Square Deal	Wizard
DuPont Uramon	Min-Sol	Smith Money	Wolf
Easy Going	Milorganite	Maker	

INSPECTION FEES COLLECTED DURING 1948-49

Fertilizer inspection fees equivalent to 492,541 tons of fertilizer were collected for fertilizer sold during the Texas fiscal year from September 1, 1948 through August 31, 1949. This tonnage is compared in Table 1 with tonnages sold during other periods.

Fees collected for the 1948-49 period were about 9 percent higher than for 1947-48. Significant increases in sales have occurred nearly every year since the 1932-33 season, when the fees collected were equivalent to only 30,845 tons.

Table 1. Fertilizer inspection fees collected calculated to tonnage basis, during different periods (September 1 of one year through August 31 of next year)

Year	Tonnage equivalent
1905-06	13,500
1910-18 (8-year average)	48,861
1918-23 (5-year average)	44,770
1923-28 (5-year average)	112,927
1928-33 (5-year average)	90,962
1933-38 (5-year average)	66,255
1938-43 (5-year average)	125,678
1943-44	196,877
1944-45	217,760
1945-46	305,510
1946-47	401,297
1947-48	451,132
1948-49	492,541

TONNAGE SALES OF DIFFERENT GRADES OF FERTILIZERS

The tonnage sales of different grades of mixed fertilizers and fertilizer materials for periods extending from July 1 through December 31, 1948, from January 1 through June 30, 1949 and from July 1, 1948 through June 30, 1949, are given in Table 2. These periods, rather than those based on the Texas fiscal year, are used because they are in accord with the periods almost universally used by fertilizer manufacturers, by the United States Department of Agriculture and by many states, and are those recommended by the Committee on Fertilizer Grades and Ratios of the American Society of Agronomy to provide a uniform basis for estimating the needs of the fertilizer industry in the United States. The tonnages are compiled from current reports of sales of fertilizers required by law to be sent to the State Chemist by fertilizer guarantors within 3 days after sale.

Mixed goods accounted for about one-fifth of the fertilizers sold in the fall, two-thirds of those sold in the spring and one-half of those sold during the entire year. Of the total

Table 2. Mixed goods and materials sold from July 1, 1948 through June 30, 1949, based on current reports of sales by guarantors

	July 1 to Dec. 31, 1948	Jan. 1 to June 30, 1949	Total
	Tons	Tons	Tons
Mixed goods (total)	34,653	197,474	232,127
0-14-7	3,548	1,863	5,411
4-8-8	141	5,901	6,042
4-12-4	11,323	75,079	86,402
5-10-5	14,023	103,810	117,833
6-10-4	1,294	1,659	2,953
6-12-0	1,376	1,893	3,269
6-12-4 (Garden)	194	680	874
8-8-8	420	3,307	3,727
10-10-0	1,783	875	2,663
Others	202	1,897	2,099
Liquid fertilizers	344	510	854
Materials (total)	137,493	89,814	227,307
Ammonium nitrate	5,082	5,925	11,027
Nitrate of soda	335	1,437	1,772
Sulphate of ammonia	587	1,142	1,729
Anhydrous ammonia	0	170	170
Other nitrogen carriers	1,374	1,247	2,621
4-16-0	60	34	94
16-20-0	12,338	20,956	33,294
Superphosphate normal	115,761	56,181	171,942
Superphosphate concentrated	1,871	2,474	4,345
Muriate of potash 50%	65	130	195
Muriate of potash 60%	15	92	107
Other potash carriers	5	26	31
Other products under law (Total)	6,553	13,497	20,050
Ground rock phosphate	1,910	7,167	9,077
Soft phosphate with colloidal clay	433	300	733
Activated sludge	230	703	933
Animal manures	169	447	616
Bone meal and flour	538	585	1,123
Sulphur	2,814	1,531	4,345
Others	459	2,764	3,223
Total fertilizer	178,699	300,785	479,484

mixed goods sold, the 4-12-4 grade amounted to 37 percent and the 5-10-5 grade to 50 percent. Although 15 grades of mixed goods were approved by the Texas Fertilizer Committee, these two grades thus accounted for 87 percent of the total sold. The 16-20-0 grade was carried during the past year as a material rather than a mixed goods. While a considerable portion of the total of this grade sold during the year was a true material, ammonium phosphate-sulfate, several companies were registered as making this grade by mixing ammonium nitrate, ammonium sulfate and superphosphate 45 percent; the latter was thus a mixed goods rather than a material. However, for convenience, this grade is entered in Table 2 as a material; it accounted for 15 percent of the total materials sold. Superphosphate accounted for over 75 percent of the materials sold; sales in the fall were almost twice those in the spring.

Table 3. Principal fertilizer constituents sold from July 1, 1948 through June 30, 1949

	July 1 to Dec. 31, 1948	Jan. 1 to June 30, 1948	Total
Nitrogen, tons			
In mixed goods	1,603	9,197	10,800
In materials	4,096	6,210	10,306
Total	5,699	15,409	21,106
Available phosphoric acid, tons			
In mixed goods	4,234	21,258	25,492
In materials	26,486	16,526	43,012
Total	30,720	37,784	68,504
Soluble potash, tons			
In mixed goods	1,522	9,243	10,765
In materials	43	126	169
Total	1,565	9,369	10,934
Average over-all composition, percent			
Nitrogen	3.31	5.36	4.59
Available phosphoric acid	17.84	13.15	14.91
Potash	0.91	3.26	2.38
Total	22.06	21.77	21.88

The tonnage of the principal fertilizer constituents, calculated from the tonnages shown in Table 2 and the guaranteed analyses of the goods, are shown in Table 3. Materials contained about one-half of the total nitrogen sold, one-third of the available phosphoric acid and only about 1 percent of the soluble potash. Fall sales accounted for 27 percent of the total nitrogen sold, 44 percent of the available phosphoric acid and 14 percent of the soluble potash. Figures for the average composition of all goods sold show that nitrogen was about twice as high, potash nearly four times as high, and available phosphoric acid much lower in the goods sold in the spring than in those sold in the fall.

VALUATION PER TON

The Texas fertilizer law requires that a refund be made to all purchasers of fertilizer if the valuation found on analysis is 4 percent or more below the valuation guaranteed, and that if the valuation found is 10 percent or more below the valuation, the fertilizer shall be considered as being adulterated. The rebate must be paid by the guarantor to the dealer and by the dealer to the individual purchasers of the lot of fertilizer concerned. A calculation of the guaranteed valuation and of the valuation found by analysis must, therefore, be made. The valuation also sums up the valuation of the three principal constituents (nitrogen, available phosphoric acid and soluble potash) shown in the guarantee or found in the analysis, into a single figure which is convenient for comparative purposes.

The calculation of the valuation requires a specific val-

uation for each of the three constituents. The following prices per pound and per unit (1 percent of a ton, or 20 pounds) were used for this calculation in 1948-49:

	Prices per pound	Prices per unit
Nitrogen	\$.15	\$3.00
Available phosphoric acid .....	.05	1.00
Total phosphoric acid in tankage and bone meal.....	.06	1.20
Total phosphoric acid in rock phosphate.....	.02	.40
Soluble potash .....	.05	1.00

The valuation is calculated by multiplying the percentage of each constituent by the valuation per unit, and adding the products. The following is an example of the calculation of the valuation of a 5-10-5 fertilizer:

Nitrogen	$5 \times \$3.00 = \15.00
Available phosphoric acid	$10 \times 1.00 = 10.00$
Soluble potash	$5 \times 1.00 = 5.00$
 Guaranteed valuation	 $\$30.00$

The valuation guaranteed and the valuation found are used for comparative purposes in a number of the following tables.

COMPOSITION AND SELLING PRICE OF DIFFERENT GRADES OF FERTILIZERS

The average composition, the guaranteed valuation, the valuation found by analysis and the average retail selling price per ton of various grades of fertilizers are shown in Table 4. The average retail selling price is the average of the cash retail price furnished to the fertilizer inspectors by the dealers. The prices of the same fertilizer may vary between 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 profit, as well as the wholesale cost of the materials from which the fertilizer is made, and from which the valuations guaranteed and found are calculated.

The average valuation found by analysis is slightly above the guaranteed valuation in most cases.

AVERAGE COST OF NITROGEN, AVAILABLE PHOSPHORIC ACID AND POTASH

The calculated retail cost in cents per pound of nitrogen, available phosphoric acid and potash, as calculated from the cash selling price per ton of the various grades of fertilizer

Table 4. Average composition, valuation and selling prices of grades of fertilizers, 1948-49

	Number averaged	Nitrogen, percent	Available phosphoric acid percent	Potash, percent	Valuation guaranteed, per ton	Valuation found, per ton	Selling price, per ton
0-14-7	36	0.00	14.06	7.39	21.00	21.45	35.61
4-8-8	46	4.10	8.63	7.93	28.00	28.84	41.60
4-12-4	559	4.00	12.02	4.33	28.00	28.32	42.39
5-10-5	699	4.89	10.23	5.26	30.00	30.15	44.95
6-10-4	24	5.81	10.25	4.40	32.00	32.09	51.54
6-12-0	35	5.74	12.39	0.00	30.00	29.62	44.63
6-12-4	5	5.89	12.48	4.31	34.00	34.47	55.23
8-8-8	66	7.80	8.30	8.14	40.00	39.83	56.16
10-10-0	18	9.62	10.95	0.00	40.00	39.80	60.39
10-20-0	2	9.63	20.12	0.00	50.00	49.01	67.25
Ammonium nitrate	7	33.14	0.00	0.00	100.50	99.41	71.61
Sulphate of ammonia	8	20.50	0.00	0.00	61.50	61.50	80.62
Nitrate of soda	6	16.11	0.00	0.00	48.00	48.34	65.80
Cyanamid	6	20.31	0.00	0.00	61.80	60.92	77.70
16-20-0	69	16.02	20.28	0.00	68.00	68.34	82.55
Superphosphate, 20%	229	0.00	20.48	0.00	20.00	20.48	31.19
Superphosphate, 45%	2	0.00	44.14	0.00	45.00	44.14	66.00
Superphosphate, 47%	7	0.00	45.20	0.00	47.00	45.20	67.76
Superphosphate, 48%	2	0.00	45.23	0.00	48.00	45.23	67.25
Muriate of potash, 50%	1	0.00	0.00	56.03	50.00	56.03	55.00
Muriate of potash, 60%	3	0.00	0.00	58.73	60.00	58.73	57.59
Rock phosphate	4	0.00	32.33*	0.00	13.20	12.93	18.32
Soft phosphate with colloidal clay..	5	0.00	20.49*	0.00	8.00	8.20	27.00
Bone meal	3	4.10	22.53*	0.00	24.30	25.84	79.23
Liquid fertilizers	24	8.55	18.48	2.35	42.17	41.47	290.00

* Total phosphoric acid

Table 5. Approximate average cost per pound of nitrogen, available phosphoric acid and potash during 1948-49

	Nitrogen Cents	Available phosphoric acid Cents	Potash Cents
Ammonium nitrate	10.69	—	—
Muriate of potash, 60%	—	—	4.80
Muriate of potash, 50%	—	—	5.50
16-20-0	18.21	6.07	—
Cyanamid	18.86	—	—
Sulphate of ammonia	19.66	—	—
10-20-0	20.18	6.72	—
Nitrate of soda	20.56	—	—
Superphosphate, 48%	—	7.00	—
8-8-8	21.06	7.02	7.02
Superphosphate, 47%	—	7.21	—
Superphosphate, 45%	—	7.33	—
4-8-8	22.29	7.43	7.43
6-12-0	22.32	7.44	—
5-10-5	22.47	7.49	7.49
10-10-0	22.65	7.55	—
4-12-4	22.71	7.57	7.57
Superphosphate, 20%	—	7.80	—
6-10-4	24.16	8.06	8.06
6-12-4	24.36	8.12	8.12
0-14-7	—	8.48	8.48
Liquid fertilizers	103.11	34.37	34.37
Rock phosphate	—	2.78*	—
Soft phosphate with colloidal clay	—	6.75*	—
Bone meal	48.90	9.78*	—

* Total phosphoric acid

given in Table 4 and the guaranteed composition, are shown in Table 5. The cash selling prices used in the calculations were those given to the fertilizer inspectors by the retail merchants at the time of inspection. For the purpose of these calculations, it was assumed that the prices were in the same ratios as the valuations. As the price of the same fertilizer may vary in different places, these figures may not be correct for any particular locality, but represent averages only, and are for purposes of comparison. For example, grades used extensively near the factories might average lower in price than those used at a distance on account of the lower transportation costs. The fertilizers with the lowest cost per unit of plant food to the farmer are given first in the table.

Cost of nitrogen. The cheapest source of nitrogen was ammonium nitrate, followed by 16-20-0 and calcium cyanamid. Nitrogen in ammonium nitrate cost less than one-half as much as nitrogen in the important grades of mixed goods, only a little over one-half as much as nitrogen in nitrate of soda, and only about one-tenth as much as nitrogen in liquid fertilizers.

Cost of available phosphoric acid. The cheapest sources of available phosphoric acid were the 16-20-0 and 10-20-0. Available phosphoric acid in the concentrated grades of superphosphate cost more than that in 16-20-0 and important grades of mixed goods, and less than one-fifth as much as that in liquid fertilizers.

Cost of potash. Only a small amount of potash materials were sold, and few samples were obtained. The cheapest source of potash in mixed goods was 8-8-8, followed by 5-10-5. Potash in the important grades of mixed goods cost less than one-fourth as much as potash in liquid fertilizers.

RELATION OF VALUATION GUARANTEED TO VALUATION FOUND

The average valuation guaranteed by guarantors of fertilizers doing business in Texas, compared with the valuation found upon analysis of official samples, is shown in Table 6. In the preparation of this table, all analyses made were averaged, even though several were made of each brand. Fertilizer materials, as well as mixed fertilizers, were included in the calculation of the averages given. In nearly all cases, the valuation found exceeded the valuation guaranteed.

When rebates are found to be due, if all the purchasers cannot be located by the dealers records, the rebates must be paid to some local public group such as a 4-H Club, Boy Scout troupe or church. The number of lots on which such rebates

Table 6. Average valuations guaranteed and found in samples of fertilizers guaranteed by different companies. (dollars per ton)

Guarantor	Average valuation guaranteed	Average valuation found	Number averaged	Number of rebates required*
American Cyanamid Company.....	42.36	41.73	10	
Armour Fertilizer Works	27.94	28.29	470	
Agricultural Products Company	61.50	61.56	1	
Associated Cooperatives, Inc.	65.16	63.25	6	
Bryan Cotton Oil & Fertilizer Works.....	26.00	26.71	3	
Campbell Fertilizer Company	28.75	28.99	8	
Central Texas Fertilizer Company	31.48	31.16	29	
Chilean Nitrate Sales Corporation	44.00	48.35	6	
Colorado Fuel & Iron Corporation	61.50	61.00	2	
Consolidated Chemical Industry	24.30	25.84	3	
Crane Fertilizer Company	42.50	38.83	4	3
Crawford Liquid Fertilizer Company	38.00	33.89	2	2
Davison Chemical Corporation	29.00	29.12	2	
Du Pont Denemours & Company	12.60	12.79	1	
East Texas Products Company	29.88	29.94	67	
Farmers Fertilizer Company	28.28	28.96	7	
Fidelity Chemical Corporation	28.44	28.92	91	2
Ford Motor Company	61.50	61.62	2	
Gilmer Cotton Oil & Fertilizer	29.50	29.39	10	
Gorman Peanut Company	28.00	28.39	10	
International Minerals & Chemical Corp.	27.20	27.32	98	
Interstate By Products	7.50	14.66	2	
Jacksonville Fertilizer Company	33.89	35.60	18	
Kelly-Weber & Company, Inc.	28.47	28.46	17	
Kipfer Chemical Company	20.00	20.16	1	
Lake Charles Feed Company	26.60	27.93	5	
Lion Oil Company	10.05	9.95	5	
Marshall Cotton Oil Company	31.00	30.24	12	3
Oil Mill & Fertilizer Works	30.31	28.77	13	4
Phoenix Chemical Company	44.00	42.99	1	
Port Fertilizer Company	50.63	49.33	4	
Ralston Purina Company	30.00	30.43	4	
Red Star Fertilizer Company	26.94	26.71	67	1
Robin Jones Phosphate Company	8.80	9.87	1	
Rowland Fertilizer Company	31.33	31.79	6	2
Sea Board Sales Company	8.00	7.98	4	
Sears Roebuck & Company	7.50	8.12	1	
Shreveport Fertilizer Works	30.22	30.74	122	
Smith Douglass Company, Inc.	30.74	30.87	62	
Soil Builders, Incorporated	8.00	9.09	1	
Southern Acid & Sulphur Company	50.95	51.53	107	
Southwest Chemical Company	36.71	35.53	7	2
Southwest Fertilizer & Chemical Company.....	47.00	45.15	1	
Swift & Company	28.31	28.35	243	4
Synthetic Nitrogen Products	61.50	61.80	1	
Tennessee Corporation	40.00	39.37	1	
Texas Agricultural Supply Company	60.00	57.60	1	
Texas Cotton Cooperative Association	28.80	29.87	5	
Texas Farm Products Company	28.94	29.32	159	1
Texas Liquid Fertilizer Company	45.00	46.98	9	
Thompson Phosphate Company	12.40	12.82	1	
Tyler Fertilizer Company	44.95	43.20	21	7
Virginia-Carolina Chemical Corporation	28.49	28.59	144	
Waldo Fertilizer Works	32.13	32.30	15	

* No rebates required where no figure appears.

were paid by each guarantor is also shown in Table 6. Only 43 samples were found to be more than 4 percent below the guarantee, and rebates amounting to \$1,704.01 were made to the purchasers.

The proportion of samples on which rebates were required was considerably less than for the 1947-48 year. The record this year was by far the best of any year in the history

of fertilizer control in Texas. Particular commendation should be given to one of the larger guarantors, of whom no rebates were required although samples were secured from 470 lots of fertilizers guaranteed by this concern.

HOW TO SECURE FREE ANALYSIS OF FERTILIZERS

Purchasers of commercial fertilizers for their own use on their own land (but not for sale) may secure a free analysis of a sample, provided they take a sample in accordance with the requirements of the Texas fertilizer law governing such a case. 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. If the sample is not properly taken, it may not truly represent the fertilizer sampled, and the analysis may be better or poorer than the goods actually are. The proper sampling of a fertilizer requires care, and the law requires that it be taken in a certain way so that a fair sample is taken. Those who desire the free analysis of a sample of commercial fertilizer should write to the State Chemist, College Station, and request a copy of the form entitled "Application for Free Fertilizer Analysis." No samples will be analyzed unless the sample is accompanied by this form, properly executed.

PUBLICATIONS DEALING WITH THE USE OF FERTILIZERS

Some publications dealing with the value and use of commercial fertilizers and issued by the Texas Agricultural Experiment Station are listed following. Single copies of these publications will be sent free upon request to the Editor, Texas Agricultural Experiment Station, College Station, Texas. To avoid errors, both the number and the title of the publication should be given.

CIRCULARS:

90. Rose growing for the home gardener.

BULLETINS:

212. The availability of phosphoric acid in rock phosphate.
408. The effect of sulphur on yield of certain crops.
414. Possibilities of sulphur as a soil amendment.
428. The fertilizing value of greensand.

432. Manganese in Texas soils and its relation to crops.
445. The composition and fertilizing value of sewage sludge.
509. Availability of the phosphoric acid of finely-divided rock phosphate.
524. Fertilizer experiments with yellow Bermuda onions in the Winter Garden region of Texas.
596. Onion fertilizer experiments at Laredo, Big Wells and Eagle Pass, Texas.
627. Cottons resistant to wilt and root knot and the effect of potash fertilizer in East Texas.
647. Some factors affecting the utilization of phosphoric acid in soils by plants in pot experiments.
672. The value of different phosphates for various Texas soils and grasses as indicated by pot experiments.
693. Nitrification capacities of typical Texas soils and factors which affect nitrification.
699. Control of cotton rootrot by sweetclover in rotation.

PROGRESS REPORTS:

675. Acid production in composts of sulphur and organic matter.
875. Yield, chemical analysis and fertilizer response of eleven forage grasses.
963. The need for lime of some East Texas soils.
983. Effect of large amounts of phosphate upon yield and composition of grasses.
989. Fertilizers for white potatoes in the High Plains of Texas.
993. Fertilizer tests with cotton and corn at the El Paso Valley substation, 1943-45.
996. The effect of phosphate upon the percentage of phosphoric acid in pasture grasses.
1025. Fertilizer studies with vegetables in Cameron County.
1055. Nitrogen fertilizers for rice.
1071. Superphosphate increases yield of alfalfa in the Wichita Irrigated Valley.
1074. Fertilizer studies with sweet potatoes.

1090. Fertilizer experiments with spinach in the Texas Winter Garden.
1096. The use of fertilizer and supplemental materials in the production of bermuda onions.
1100. Phosphorus for range cattle.
1118. Increasing oat yields with topdressing of nitrogen.
1144. Fertilizer requirements for rice in the Gulf Coast Prairie of Texas.
1145. Effect of fertilizers upon the yield and grade of cabbage.
1173. Effect of fertilizers upon the yield, size and grade of tomatoes.
1175. Effect of fertilizers upon the yield, grade, head size and marketability of Early Round Dutch cabbage.
1183. Distribution of fertilizer sales in Texas, January 1 - June 30, 1949.

ANALYSES OF FERTILIZERS, 1948-49

A total of 1,893 samples of fertilizers and fertilizer materials was collected during the year by fertilizer inspectors from the goods being sold in many towns and cities of Texas. The chief places of sales were inspected several times. These samples were analyzed by the official methods of the Association of Official Agricultural Chemists of North America, as is required by law. Inspections were made by C. B. McLarry and H. W. Greene and the analytical work was done by Mrs. Elora Dale, Mrs. Ruth Thompson, Mrs. Jean King, Mrs. Pauline McInturff, Mrs. Vera Quinn and Waldo Walker. The analyses are shown in Table 7.

SUMMARY

This bulletin is the 47th annual report of the operation of the Texas fertilizer law, and covers the period from September 1, 1948 through August 31, 1949.

The tonnage of fertilizers and fertilizer materials sold during the period from July 1, 1948 through June 30, 1949, amounted to 479,484 tons, an increase of about 10 percent over the tonnage sold during the preceding year. The 4-12-4 grade accounted for over 37 percent, and 5-10-5 grade for 50

percent of the total of 232,127 tons of mixed goods sold. Superphosphate 20% represented about 75 percent of the total of 227,307 tons of fertilizer sold.

Fertilizer inspection fees equivalent to 492,541 tons of fertilizer were collected on fertilizers sold during the Texas fiscal year ending August 31, 1949, as compared with 451,132 tons sold during the preceding year.

Grades of mixed fertilizers approved by the Texas Fertilizer Committee for the year beginning September 1, 1949, are listed.

The analyses of 1,893 official samples of fertilizers are given. The valuations found upon analysis are compared with the analyses guaranteed by the registrants. Rebates totaling \$1,704.01 were paid upon 43 lots of fertilizer for which the valuation found was 4 percent or more below the valuation guaranteed.

A copy of House Bill No. 574 of the 51st Legislature, effective May 13, 1949, is included as a part of this bulletin.

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
Agricultural Products Co., Anthony, New Mexico					
	Ag-Co Ammonium Sulphate Fertilizer				
94071	Guaranteed	20.50	0.00	0.00	61.50
	Analysis	20.52	0.00	0.00	61.56
American Cyanamid Co., New York, New York					
	20.6% Aero Cyanamid Granular				
93837	Guaranteed	20.60	0.00	0.00	61.80
	Analysis	20.62	0.00	0.00	61.86
93865	Analysis	20.56	0.00	0.00	61.68
94225	Analysis	19.87	0.00	0.00	59.61
94234	Analysis	20.04	0.00	0.00	60.12
95304	Analysis	20.30	0.00	0.00	60.90
95308	Analysis	20.45	0.00	0.00	61.35
Aero-Phos Florida Natural Phosphate					
93831	Guaranteed	0.00	33.00*	0.00	13.20
	Analysis	0.00	32.25*	0.00	12.90
93838	Analysis	0.00	31.65*	0.00	12.66
94449	Analysis	0.00	32.47*	0.00	12.98
95275	Analysis	0.00	32.95*	0.00	13.18
Armour Fertilizer Works, Houston and Dallas, Texas					
	Armour's Big Crop 0-14-7 Fertilizer				
93726	Guaranteed	0.00	14.00	7.00	21.00
	Analysis	0.00	15.11	8.11	23.22
93947	Analysis	0.00	14.02	7.10	21.12
94120	Analysis	0.00	15.01	6.26	21.27
94191	Analysis	0.00	14.29	7.71	22.00
95128	Analysis	0.00	12.97	7.46	20.43
95132	Analysis	0.00	13.70	6.73	20.43
95225	Analysis	0.00	13.90	7.12	21.02
Armour's Big Crop 4-8-8 Fertilizer					
94080	Guaranteed	4.00	8.00	8.00	28.00
95081	Analysis	2.80	12.86	5.78	27.04
95272	Analysis	3.89	8.48	8.01	28.16
95407	Analysis	4.02	9.18	8.08	29.32
	Analysis	4.02	9.85	7.03	29.94
Armour's Big Crop 4-12-4 Fertilizer					
93519	Guaranteed	4.00	12.00	4.00	28.00
93525	Analysis	4.22	12.16	4.50	29.32
93535	Analysis	4.14	12.31	4.66	29.39
93546	Analysis	4.16	12.21	4.19	28.88
93549	Analysis	4.06	12.12	4.52	28.82
93556	Analysis	3.92	12.25	4.39	28.40
93560	Analysis	4.10	12.09	4.42	28.81
93567	Analysis	3.77	12.10	4.49	27.90
93578	Analysis	3.90	11.74	4.56	28.00
93581	Analysis	4.00	12.00	4.25	28.25
93583	Analysis	3.91	12.19	4.40	28.32
93592	Analysis	4.02	11.68	4.49	28.23
93595	Analysis	4.26	11.79	4.28	28.85
93606	Analysis	4.00	11.72	4.50	28.22
93622	Analysis	3.79	12.34	4.08	27.79
93628	Analysis	4.20	12.86	4.44	29.90
93641	Analysis	4.04	12.16	4.47	28.75
93659	Analysis	4.30	11.66	4.04	28.60
93674	Analysis	3.87	12.40	4.06	28.07
93681	Analysis	4.50	12.21	4.50	28.77
93683	Analysis	4.48	12.24	4.48	29.05
93688	Analysis	3.79	12.14	4.34	27.85
93693	Analysis	3.65	12.21	4.23	27.39
	Analysis	3.85	13.00	4.01	28.56

*Total phosphoric acid

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
Armour's Big Crop 4-12-4 Fertilizer Guaranteed					
93695	Analysis	4.00	12.00	4.00	28.00
93723	Analysis	3.64	12.94	4.49	28.35
93769	Analysis	3.40	12.87	5.06	28.13
93799	Analysis	3.94	12.14	4.22	28.18
93801	Analysis	4.24	11.85	4.16	28.73
93803	Analysis	4.04	12.22	4.18	28.52
93805	Analysis	4.26	12.16	4.42	29.36
93806	Analysis	4.06	12.56	4.33	29.07
93830	Analysis	4.02	12.49	4.25	28.80
93832	Analysis	4.24	12.11	4.19	29.02
93834	Analysis	4.00	13.66	4.29	29.95
93835	Analysis	4.18	12.38	4.36	29.28
93845	Analysis	4.52	11.75	4.52	28.06
93848	Analysis	4.12	12.14	4.40	28.90
93857	Analysis	4.00	12.92	4.26	29.18
93884	Analysis	4.08	11.90	4.51	28.65
93894	Analysis	3.69	11.95	4.41	27.43
93907	Analysis	4.07	12.96	5.04	30.21
93919	Analysis	4.02	11.95	4.29	28.30
93929	Analysis	4.24	12.77	4.39	29.88
93930	Analysis	3.71	12.64	4.16	27.93
93955	Analysis	3.83	12.43	4.22	28.14
93957	Analysis	4.08	12.36	4.39	28.99
93960	Analysis	3.79	12.95	4.01	28.33
93995	Analysis	3.92	12.59	4.56	28.91
94031	Analysis	3.87	12.69	4.44	28.74
94088	Analysis	3.86	13.11	4.01	28.70
94093	Analysis	4.05	12.16	4.48	28.79
94103	Analysis	4.21	12.31	4.42	29.36
94111	Analysis	3.78	11.69	4.33	27.36
94114	Analysis	4.27	12.59	4.74	30.14
94117	Analysis	3.82	13.11	4.62	29.19
94122	Analysis	4.03	12.22	4.79	29.10
94132	Analysis	4.02	12.13	4.17	28.36
94155	Analysis	4.05	11.84	4.78	28.77
94158	Analysis	3.81	11.06	4.38	26.87
94183	Analysis	3.81	12.19	4.02	27.64
94188	Analysis	4.07	12.23	4.17	28.61
94192	Analysis	3.92	12.25	4.49	28.50
94195	Analysis	4.02	12.67	4.56	29.29
94198	Analysis	4.17	12.32	4.57	29.40
94201	Analysis	4.20	12.31	4.09	29.00
94221	Analysis	4.02	12.80	4.48	29.34
94226	Analysis	4.03	12.06	4.54	28.69
94265	Analysis	3.78	12.79	4.57	28.70
94267	Analysis	3.81	12.44	4.10	27.97
94269	Analysis	3.86	11.58	4.33	27.49
94275	Analysis	4.04	12.04	4.28	28.44
94278	Analysis	3.82	12.38	4.03	27.87
94280	Analysis	3.72	11.70	4.28	27.14
94295	Analysis	3.93	12.70	4.58	29.07
94297	Analysis	4.00	11.92	4.43	28.35
94299	Analysis	4.00	12.42	4.49	28.91
94300	Analysis	4.00	12.05	4.31	28.36
94301	Analysis	3.62	12.44	4.80	27.60
94307	Analysis	3.62	12.06	4.04	26.96
94309	Analysis	4.20	12.17	4.82	29.59
94323	Analysis	4.22	12.32	4.62	29.60
94326	Analysis	4.00	12.08	4.62	28.70
94331	Analysis	4.00	11.99	4.48	28.47
94336	Analysis	3.80	12.25	4.88	28.03
94363	Analysis	4.20	12.99	4.12	29.71
	Analysis	4.00	12.27	4.50	28.77

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
Armour's Big Crop 4-12-4 Fertilizer					
94381	Guaranteed	4.00	12.00	4.00	28.00
94390	Analysis	4.16	12.57	4.47	29.52
94428	Analysis	4.04	12.51	4.47	29.10
94432	Analysis	4.30	12.14	4.68	29.72
94457	Analysis	4.02	12.30	4.49	28.85
94460	Analysis	4.02	11.71	4.23	28.00
94520	Analysis	4.02	11.70	4.38	28.14
94559	Analysis	4.02	12.47	4.18	28.71
94565	Analysis	4.00	11.44	4.24	27.68
94587	Analysis	4.02	11.67	4.32	28.05
94594	Analysis	4.10	11.95	4.45	28.70
94654	Analysis	3.98	12.19	4.21	28.34
94659	Analysis	4.03	11.63	4.24	27.96
94675	Analysis	4.06	11.70	4.38	28.26
94722	Analysis	3.80	11.65	4.44	27.49
94728	Analysis	4.18	11.81	4.19	28.54
94790	Analysis	3.86	11.95	4.24	27.77
94827	Analysis	4.16	11.44	4.38	28.30
94848	Analysis	4.01	12.12	4.36	28.51
94891	Analysis	4.12	11.30	4.28	27.94
94923	Analysis	4.06	11.80	4.06	28.04
94952	Analysis	4.00	11.84	4.21	28.05
95004	Analysis	4.06	11.66	4.11	27.95
95008	Analysis	3.87	11.52	4.56	27.69
95022	Analysis	4.12	11.84	4.24	28.44
95027	Analysis	4.08	11.42	4.28	27.94
95043	Analysis	4.31	12.02	4.47	29.42
95044	Analysis	4.04	11.67	4.32	28.11
95073	Analysis	4.28	12.09	4.05	28.98
95083	Analysis	3.89	11.94	4.20	27.81
95084	Analysis	4.08	12.18	4.12	28.49
95099	Analysis	4.26	11.17	4.41	28.36
95117	Analysis	4.14	11.60	4.36	28.38
95125	Analysis	4.19	12.01	4.02	28.60
95129	Analysis	4.02	11.68	4.05	27.79
95131	Analysis	4.02	11.46	4.26	27.78
95146	Analysis	4.16	11.31	4.22	28.01
95150	Analysis	4.11	11.61	4.19	28.13
95171	Analysis	3.80	12.10	4.36	27.86
95182	Analysis	4.00	11.49	4.47	27.96
95200	Analysis	4.05	12.06	4.03	28.24
95205	Analysis	4.00	11.84	4.14	27.98
95211	Analysis	4.28	11.07	5.11	29.02
95224	Analysis	4.12	11.20	4.94	28.50
95227	Analysis	4.40	9.92	5.08	28.20
95228	Analysis	4.06	12.01	4.02	28.21
95232	Analysis	4.04	12.28	4.22	28.62
95235	Analysis	4.14	11.44	4.35	28.21
95239	Analysis	4.18	12.82	4.13	29.49
95244	Analysis	4.00	11.84	4.39	28.23
95247	Analysis	4.06	12.26	4.06	28.50
95249	Analysis	4.00	12.53	4.00	28.53
95253	Analysis	4.02	12.39	4.24	28.69
95259	Analysis	4.00	12.13	4.38	28.51
95277	Analysis	4.06	12.30	4.16	28.64
95278	Analysis	4.07	12.12	4.01	28.34
95280	Analysis	3.97	12.13	4.03	28.07
95289	Analysis	4.06	11.65	4.12	27.95
95298	Analysis	4.04	12.02	4.10	28.24
95315	Analysis	4.16	11.61	4.52	28.61
95320	Analysis	3.93	11.69	4.40	27.88
95321	Analysis	4.00	11.71	4.29	28.00
	Analysis	4.02	12.39	4.11	28.56

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
Armour's Big Crop 4-12-4 Fertilizer					
95330	Guaranteed	4.00	12.00	4.00	28.00
95356	Analysis	4.02	12.01	4.20	28.27
95365	Analysis	4.02	12.27	4.10	28.43
95366	Analysis	4.16	12.22	4.01	28.72
95386	Analysis	4.08	11.59	4.56	28.39
95387	Analysis	4.02	12.02	4.26	28.84
95405	Analysis	4.07	12.00	4.12	28.33
95409	Analysis	4.21	12.00	4.51	29.14
95412	Analysis	4.22	12.61	3.82	29.09
95419	Analysis	4.00	12.52	3.51	28.03
95430	Analysis	4.00	12.19	4.12	28.31
		4.00	12.04	4.13	28.17
Armour's Big Crop 5-10-5 Fertilizer					
93550	Guaranteed	5.00	10.00	5.00	30.00
93610	Analysis	4.79	11.13	5.02	30.52
		5.20	11.06	5.52	32.18
Armour's Big Crop 6-12-0 Fertilizer					
93540	Guaranteed	6.00	12.00	0.00	30.00
93594	Analysis	5.20	13.56	0.00	29.16
93621	Analysis	5.76	13.05	0.00	30.33
93637	Analysis	5.78	12.47	0.00	29.81
93640	Analysis	5.89	12.68	0.00	30.35
93697	Analysis	5.92	12.26	0.00	30.02
93710	Analysis	6.00	12.56	0.00	30.56
93793	Analysis	6.04	12.06	0.00	30.18
93964	Analysis	5.59	13.51	0.00	30.28
94083	Analysis	5.83	11.67	0.00	29.16
94157	Analysis	5.76	12.10	0.00	29.38
94174	Analysis	5.90	11.19	0.00	28.89
94232	Analysis	6.19	12.57	0.00	31.14
94268	Analysis	5.52	12.32	0.00	28.88
94296	Analysis	6.00	12.68	0.00	30.68
95082	Analysis	5.05	13.17	0.00	28.85
95122	Analysis	5.81	12.07	0.00	29.50
95226	Analysis	6.02	12.34	0.00	30.40
95368	Analysis	5.84	12.12	0.00	29.64
		6.02	11.91	0.00	29.97
Armour's Big Crop 8-8-8 Fertilizer					
94414	Guaranteed	8.00	8.00	8.00	40.00
94495	Analysis	7.32	8.98	8.22	39.16
94849	Analysis	8.00	8.52	7.03	39.55
94870	Analysis	7.98	7.82	7.79	39.55
		7.71	8.22	7.87	39.22
Armour's Big Crop 10-10-0 Fertilizer					
93537	Guaranteed	10.00	10.00	0.00	40.00
93684	Analysis	10.00	10.11	0.00	40.11
93694	Analysis	9.78	10.41	0.00	39.75
93713	Analysis	10.00	10.35	0.00	40.35
93740	Analysis	9.69	11.05	0.00	40.12
93743	Analysis	9.80	10.40	0.00	39.80
93745	Analysis	9.69	10.11	0.00	39.15
93758	Analysis	9.38	10.84	0.00	38.48
93796	Analysis	9.64	10.56	0.00	39.48
94159	Analysis	9.30	11.46	0.00	39.36
94226	Analysis	9.44	10.17	0.00	38.49
94233	Analysis	9.41	10.28	0.00	38.51
94235	Analysis	10.00	10.45	0.00	40.45
94241	Analysis	9.45	10.16	0.00	38.51
		9.80	10.59	0.00	39.99
Armour's Big Crop Multiphos 45%					
93706	Guaranteed	0.00	45.00	0.00	45.00
94086	Analysis	0.00	44.33	0.00	44.33
		0.00	43.95	0.00	43.95

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
Armour's Big Crop 20% Superphosphate					
93523	Guaranteed	0.00	20.00	0.00	20.00
93524	Analysis	0.00	21.22	0.00	21.22
93526	Analysis	0.00	20.20	0.00	20.20
93529	Analysis	0.00	20.74	0.00	20.74
93541	Analysis	0.00	20.40	0.00	20.40
93566	Analysis	0.00	20.86	0.00	20.86
93568	Analysis	0.00	19.24	0.00	19.24
93572	Analysis	0.00	20.61	0.00	20.61
93579	Analysis	0.00	20.30	0.00	20.30
93582	Analysis	0.00	20.44	0.00	20.44
93584	Analysis	0.00	20.44	0.00	20.44
93609	Analysis	0.00	20.17	0.00	20.17
93616	Analysis	0.00	19.72	0.00	19.72
93618	Analysis	0.00	22.59	0.00	22.59
93630	Analysis	0.00	20.74	0.00	20.74
93639	Analysis	0.00	20.16	0.00	20.16
93643	Analysis	0.00	20.43	0.00	20.43
93644	Analysis	0.00	20.67	0.00	20.67
93657	Analysis	0.00	20.35	0.00	20.35
93660	Analysis	0.00	20.51	0.00	20.51
93677	Analysis	0.00	21.05	0.00	21.05
93678	Analysis	0.00	20.63	0.00	20.63
93711	Analysis	0.00	20.41	0.00	20.41
93718	Analysis	0.00	20.08	0.00	20.08
93724	Analysis	0.00	21.10	0.00	21.10
93770	Analysis	0.00	20.14	0.00	20.14
93774	Analysis	0.00	21.38	0.00	21.38
93794	Analysis	0.00	20.21	0.00	20.21
93807	Analysis	0.00	19.86	0.00	19.86
93833	Analysis	0.00	20.09	0.00	20.09
93836	Analysis	0.00	19.82	0.00	19.82
93858	Analysis	0.00	19.66	0.00	19.66
93861	Analysis	0.00	20.89	0.00	20.89
93866	Analysis	0.00	19.25	0.00	19.25
93868	Analysis	0.00	20.42	0.00	20.42
93871	Analysis	0.00	20.22	0.00	20.22
93879	Analysis	0.00	20.92	0.00	20.92
93881	Analysis	0.00	20.31	0.00	20.31
93882	Analysis	0.00	23.36	0.00	23.36
93883	Analysis	0.00	20.31	0.00	20.31
93889	Analysis	0.00	20.61	0.00	20.61
93895	Analysis	0.00	20.19	0.00	20.19
93908	Analysis	0.00	19.94	0.00	19.94
93956	Analysis	0.00	19.83	0.00	19.83
93966	Analysis	0.00	20.05	0.00	20.05
94062	Analysis	0.00	20.50	0.00	20.50
94064	Analysis	0.00	18.97	0.00	18.97
94089	Analysis	0.00	20.34	0.00	20.34
94090	Analysis	0.00	20.64	0.00	20.64
94092	Analysis	0.00	21.02	0.00	21.02
94154	Analysis	0.00	20.17	0.00	20.17
94169	Analysis	0.00	20.04	0.00	20.04
94190	Analysis	0.00	21.04	0.00	21.04
94222	Analysis	0.00	20.54	0.00	20.54
94224	Analysis	0.00	20.70	0.00	20.70
94231	Analysis	0.00	20.62	0.00	20.62
94298	Analysis	0.00	21.21	0.00	21.21
94302	Analysis	0.00	20.52	0.00	20.52
94306	Analysis	0.00	20.07	0.00	20.07
94313	Analysis	0.00	20.18	0.00	20.18
94317	Analysis	0.00	20.30	0.00	20.30
94333	Analysis	0.00	20.39	0.00	20.39

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
Armour's Big Crop 20% Superphosphate					
Guaranteed	.....	0.00	20.00	0.00	20.00
94388	Analysis	0.00	21.01	0.00	21.01
94339	Analysis	0.00	21.51	0.00	21.51
94589	Analysis	0.00	20.15	0.00	20.15
94645	Analysis	0.00	21.27	0.00	21.27
94660	Analysis	0.00	19.78	0.00	19.78
94676	Analysis	0.00	19.55	0.00	19.55
94950	Analysis	0.00	20.64	0.00	20.64
94954	Analysis	0.00	20.70	0.00	20.70
95021	Analysis	0.00	21.05	0.00	21.05
95138	Analysis	0.00	20.37	0.00	20.37
95206	Analysis	0.00	20.01	0.00	20.01
95219	Analysis	0.00	20.20	0.00	20.20
95276	Analysis	0.00	20.05	0.00	20.05
95292	Analysis	0.00	20.60	0.00	20.60
95299	Analysis	0.00	20.44	0.00	20.44
95328	Analysis	0.00	19.66	0.00	19.66
95335	Analysis	0.00	20.65	0.00	20.65
95355	Analysis	0.00	20.36	0.00	20.36
Armour's Big Crop Multiphos 44%					
Guaranteed	.....	0.00	44.00	0.00	44.00
93921	Analysis	0.00	43.81	0.00	43.81
94065	Analysis	0.00	43.10	0.00	43.10
94068	Analysis	0.00	43.90	0.00	43.90
94082	Analysis	0.00	42.49	0.00	42.49
Armour's Old Black Joe 5-10-5 Fertilizer					
Guaranteed	.....	5.00	10.00	5.00	30.00
93517	Analysis	4.78	10.87	5.15	30.21
93536	Analysis	5.32	10.77	5.48	32.21
93545	Analysis	5.00	10.56	5.38	30.94
93587	Analysis	5.06	9.56	5.82	30.56
93593	Analysis	5.00	9.87	5.58	30.45
93596	Analysis	4.78	9.51	5.11	28.61
93620	Analysis	4.45	11.54	4.84	29.73
93629	Analysis	5.20	10.33	5.42	31.35
93636	Analysis	5.26	10.38	5.19	31.35
93642	Analysis	5.01	10.39	5.24	30.66
93654	Analysis	5.02	10.29	5.38	30.73
93658	Analysis	5.15	11.01	5.15	31.89
93682	Analysis	5.22	10.79	5.18	31.63
93685	Analysis	4.90	10.28	5.10	30.03
93691	Analysis	5.06	10.81	5.47	31.46
93763	Analysis	4.83	9.65	5.52	29.66
93777	Analysis	5.16	10.31	5.75	31.54
93795	Analysis	5.12	10.78	5.02	31.16
93802	Analysis	5.00	10.12	5.22	30.34
93839	Analysis	4.98	10.30	5.01	30.25
93842	Analysis	5.10	10.80	5.05	31.15
93904	Analysis	4.79	9.89	5.43	29.69
93906	Analysis	4.93	10.10	5.24	30.13
93920	Analysis	4.70	10.99	5.38	30.47
93931	Analysis	4.56	9.94	5.38	29.00
93949	Analysis	4.65	10.07	5.14	29.16
93953	Analysis	5.19	10.07	5.34	30.98
93958	Analysis	5.10	10.38	5.01	30.69
93961	Analysis	5.00	10.19	5.63	30.82
93965	Analysis	4.64	10.67	5.29	29.88
93994	Analysis	4.75	10.01	5.68	29.94
94019	Analysis	5.05	10.52	5.42	31.09
94029	Analysis	5.02	10.50	5.30	30.86
94032	Analysis	4.77	9.98	5.08	29.37
94053	Analysis	5.00	10.16	5.31	30.47

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
	Armour's Old Black Joe 5-10-5 Fertilizer				
Guaranteed		5.00	10.00	5.00	30.00
94061	Analysis	4.77	10.24	5.20	29.75
94102	Analysis	5.19	10.76	5.30	31.63
94115	Analysis	4.54	10.92	5.23	29.77
94121	Analysis	4.79	10.37	5.01	29.75
94130	Analysis	5.08	10.95	5.57	31.76
94131	Analysis	4.62	10.69	5.48	30.03
94139	Analysis	4.87	10.11	5.28	30.00
94141	Analysis	5.00	9.74	5.42	30.16
94156	Analysis	4.84	10.83	5.56	30.91
94160	Analysis	4.67	10.47	4.42	28.90
94167	Analysis	4.74	10.20	5.02	29.44
94171	Analysis	5.06	10.28	5.86	31.32
94178	Analysis	4.89	10.46	5.08	30.21
94189	Analysis	4.73	10.66	5.40	30.25
94193	Analysis	5.01	10.45	6.21	31.69
94196	Analysis	5.30	10.22	5.04	31.16
94197	Analysis	4.83	10.34	4.85	29.68
94204	Analysis	5.06	10.06	5.67	30.91
94218	Analysis	5.00	10.42	5.80	30.72
94261	Analysis	4.61	10.32	5.30	29.45
94270	Analysis	4.82	10.22	4.80	29.48
94276	Analysis	5.08	10.28	5.11	30.63
94277	Analysis	4.90	9.96	5.24	29.90
94315	Analysis	5.00	10.48	5.82	31.25
94324	Analysis	4.72	10.01	5.75	29.92
94387	Analysis	4.80	12.11	4.12	30.63
94340	Analysis	5.00	10.04	5.72	30.76
94351	Analysis	5.00	10.06	5.62	30.68
94366	Analysis	4.96	10.76	6.01	31.65
94389	Analysis	5.13	10.94	5.26	31.59
94394	Analysis	5.02	10.06	5.02	30.14
94408	Analysis	4.84	9.87	5.36	29.75
94408	Analysis	4.83	10.62	5.34	30.45
94413	Analysis	5.16	9.67	5.34	30.49
94423	Analysis	5.04	9.91	5.30	30.33
94429	Analysis	5.24	10.14	5.68	31.54
94433	Analysis	4.68	10.72	5.07	29.88
94454	Analysis	5.20	10.50	5.48	31.58
94458	Analysis	5.00	10.18	5.03	30.11
94461	Analysis	4.70	10.00	5.07	29.17
94463	Analysis	4.77	10.07	5.27	29.65
94469	Analysis	5.02	10.13	5.01	30.20
94476	Analysis	4.83	10.00	5.28	29.77
94499	Analysis	5.00	10.64	5.25	30.89
94519	Analysis	5.00	10.32	5.03	30.35
94523	Analysis	5.12	9.79	5.01	30.16
94560	Analysis	5.10	10.11	5.16	30.57
94566	Analysis	5.28	10.25	5.03	31.12
94576	Analysis	5.40	10.71	5.45	32.36
94584	Analysis	5.02	10.05	5.32	30.43
94588	Analysis	4.92	9.93	5.20	29.89
94597	Analysis	4.84	10.09	5.02	29.63
94598	Analysis	4.41	10.27	5.03	28.53
94600	Analysis	5.02	10.07	5.05	30.18
94621	Analysis	5.32	10.49	5.01	31.46
94643	Analysis	5.05	11.14	5.10	31.39
94655	Analysis	5.08	9.55	5.30	30.09
94670	Analysis	5.03	10.14	5.12	30.35
94693	Analysis	4.82	10.19	5.04	29.69
94716	Analysis	5.00	10.04	5.16	30.20
94723	Analysis	4.81	9.85	5.34	29.62
94727	Analysis	4.84	9.75	5.06	29.33

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
Armour's Old Black Joe 5-10-5 Fertilizer					
Guaranteed					
94738	Analysis	5.00	10.00	5.00	30.00
94739	Analysis	5.24	9.61	5.09	30.42
94751	Analysis	5.02	9.81	5.15	30.02
94765	Analysis	5.04	9.47	5.04	29.63
94767	Analysis	4.95	9.47	5.11	29.43
94773	Analysis	5.10	9.72	5.02	30.04
94774	Analysis	4.72	9.80	5.08	29.04
94783	Analysis	5.04	10.20	5.08	30.40
94787	Analysis	4.60	11.60	4.46	29.86
94801	Analysis	5.05	10.02	5.01	30.18
94815	Analysis	5.04	9.77	5.47	30.36
94826	Analysis	5.02	10.25	5.02	30.33
94924	Analysis	4.21	11.16	5.02	28.81
94951	Analysis	5.02	10.62	5.16	30.84
95003	Analysis	5.03	10.35	5.10	30.54
95007	Analysis	5.30	10.13	5.26	31.29
95026	Analysis	4.93	9.66	5.23	29.68
95031	Analysis	5.09	10.01	5.19	30.47
95032	Analysis	5.28	10.08	5.26	31.18
95036	Analysis	4.74	10.08	5.03	29.33
95085	Analysis	5.13	10.18	4.78	30.35
95118	Analysis	5.54	10.70	4.22	31.54
95130	Analysis	5.04	9.82	5.02	29.96
95145	Analysis	4.96	9.38	4.58	28.84
95172	Analysis	4.58	9.99	5.24	28.97
95203	Analysis	5.03	10.26	5.13	30.48
95252	Analysis	5.00	10.75	4.74	30.49
95274	Analysis	5.15	11.12	5.00	31.57
95281	Analysis	4.76	10.34	5.13	29.75
95318	Analysis	5.10	10.01	5.38	30.69
95322	Analysis	5.00	10.00	5.10	30.10
95331	Analysis	5.25	10.12	5.28	31.15
95364	Analysis	4.66	10.48	5.10	29.56
95406	Analysis	5.04	10.73	4.67	30.52
95420	Analysis	5.19	10.00	5.02	30.59
95434	Analysis	4.75	10.45	4.66	29.36
95437	Analysis	4.82	10.19	5.14	29.79
95441	Analysis	4.90	10.22	5.08	30.00
95446	Analysis	4.78	10.44	4.67	29.45
		5.18	10.44	5.05	31.03
Armour's Pulverized Sheep Manure					
Guaranteed					
93765	Analysis	1.50	1.00	2.00	7.50
93768	Analysis	1.08	0.98	3.64	7.86
		1.30	0.96	3.39	8.25
Armour's Velvetgreen 5-10-5 Fertilizer					
Guaranteed					
93528	Analysis	5.00	10.00	5.00	30.00
93542	Analysis	4.86	10.70	5.02	30.30
93547	Analysis	5.00	10.41	5.30	30.71
93551	Analysis	4.81	10.69	5.02	30.14
93638	Analysis	4.70	11.30	5.01	30.41
93696	Analysis	5.01	10.89	5.31	31.23
93712	Analysis	4.78	10.62	5.38	30.34
93714	Analysis	4.73	10.60	5.26	30.05
93737	Analysis	4.81	10.73	4.76	29.92
93741	Analysis	4.74	10.21	5.28	29.71
93746	Analysis	4.91	10.45	5.64	30.32
93753	Analysis	4.82	10.54	5.05	30.05
93840	Analysis	4.79	10.08	5.21	29.65
93859	Analysis	4.72	11.60	5.03	30.79
93962	Analysis	4.86	10.52	5.50	30.60
94091	Analysis	4.29	10.95	5.93	29.75
		4.66	10.88	4.77	29.63

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
Armour's Velvetgreen 5-10-5 Fertilizer					
94153	Guaranteed	5.00	10.00	5.00	30.00
94168	Analysis	4.90	10.03	5.07	29.80
94173	Analysis	5.22	10.67	5.41	31.74
94184	Analysis	5.08	10.27	5.02	30.53
94236	Analysis	4.92	10.72	4.84	30.22
94238	Analysis	5.08	10.29	5.06	30.59
94248	Analysis	5.02	10.15	5.08	30.29
94254	Analysis	5.04	10.37	5.07	30.56
94255	Analysis	4.75	10.19	5.24	29.68
94316	Analysis	5.02	10.05	5.08	30.19
94327	Analysis	4.86	10.04	5.16	29.78
94375	Analysis	4.55	10.59	5.04	29.28
94382	Analysis	5.03	10.68	5.17	30.94
94459	Analysis	4.68	10.19	5.09	29.32
94477	Analysis	4.65	10.01	5.17	29.18
94556	Analysis	5.00	10.27	5.24	30.51
94850	Analysis	5.20	9.37	5.49	30.46
95100	Analysis	4.77	10.12	5.04	29.47
95273	Analysis	5.04	11.38	5.26	31.76
95306	Analysis	4.87	10.04	5.39	30.04
95323	Analysis	5.08	9.80	5.35	30.39
95414	Analysis	5.15	9.80	5.28	30.53
Associated Cooperatives, Inc., Sheffield, Alabama					
Ammonium Nitrate Fertilizer					
93698	Guaranteed	33.00	0.00	0.00	99.00
93744	Analysis	33.10	0.00	0.00	99.30
	Analysis	33.02	0.00	0.00	99.06
Concentrated 47% Superphosphate					
94070	Guaranteed	0.00	47.00	0.00	47.00
95329	Analysis	0.00	44.85	0.00	44.85
	Analysis	0.00	45.84	0.00	45.84
Concentrated 48% Superphosphate					
94066	Guaranteed	0.00	48.00	0.00	48.00
94260	Analysis	0.00	44.34	0.00	44.34
	Analysis	0.00	46.11	0.00	46.11
Bryan Cotton Oil and Fertilizer Co., Bryan, Texas					
Star Brand Fertilizer 4-12-4					
94485	Guaranteed	4.00	12.00	4.00	28.00
	Analysis	4.02	11.99	4.10	28.15
Star Brand Fertilizer 5-10-5					
94486	Guaranteed	5.00	10.00	5.00	30.00
	Analysis	5.00	10.16	5.08	30.24
Star Brand 20% Superphosphate					
93495	Guaranteed	0.00	20.00	0.00	20.00
	Analysis	0.00	21.73	0.00	21.73
Campbell Fertilizer Co., Houston, Texas					
All-Weather Organic Base Fertilizer 4-12-4					
94383	Guaranteed	4.00	12.00	4.00	28.00
94468	Analysis	4.19	12.72	4.59	29.88
95103	Analysis	4.02	12.14	4.38	28.58
95381	Analysis	4.00	11.60	4.66	28.26
95383	Analysis	4.17	12.09	4.02	28.62
	Analysis	4.00	12.00	4.39	28.39
All-Weather Organic Base Fertilizer 5-10-5					
94379	Guaranteed	5.00	10.00	5.00	30.00
94464	Analysis	4.44	10.13	5.19	28.64
95104	Analysis	4.57	10.14	5.28	29.13
	Analysis	5.00	10.09	5.31	30.40

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
Central Texas Fertilizer Co., Comanche, Texas					
Topper Brand 0-14-7					
93647	Guaranteed	0.00	14.00	7.00	21.00
	Analysis	0.00	14.14	7.17	21.31
94209	Analysis	0.00	14.57	7.34	21.91
94286	Analysis	0.00	13.88	7.38	21.26
Topper Brand 4-12-4					
93650	Guaranteed	4.00	12.00	4.00	28.00
93869	Analysis	3.83	11.60	4.27	27.36
94133	Analysis	3.75	12.03	4.65	27.93
94208	Analysis	4.00	12.02	4.15	28.17
94217	Analysis	3.88	12.25	4.41	28.30
94279	Analysis	3.83	12.27	4.00	27.76
95142	Analysis	4.02	12.18	4.01	28.25
95202	Analysis	4.00	12.01	4.21	28.22
95212	Analysis	4.00	12.52	4.09	28.61
95220	Analysis	3.80	11.58	4.10	27.08
	Analysis	3.69	12.11	4.01	27.19
Topper Fertilizer 5-10-5					
93533	Guaranteed	5.00	10.00	5.00	30.00
93649	Analysis	4.83	10.43	5.18	30.10
94210	Analysis	4.52	10.84	4.69	29.29
95029	Analysis	4.58	10.81	4.80	29.35
95141	Analysis	5.16	10.36	5.32	31.16
95199	Analysis	4.64	10.02	5.01	28.95
95201	Analysis	4.48	10.41	5.20	29.05
	Analysis	4.68	10.60	4.93	29.57
Topper Fertilizer 6-12-0					
93534	Guaranteed	6.00	12.00	0.00	30.00
93648	Analysis	5.79	12.22	0.00	29.59
94134	Analysis	5.50	12.49	0.00	28.99
94211	Analysis	5.64	12.16	0.00	29.08
95198	Analysis	5.44	13.01	0.00	29.33
95221	Analysis	6.02	12.35	0.00	30.41
	Analysis	5.80	11.94	0.00	29.34
Topper Muriate of Potash					
93564	Guaranteed	0.00	0.00	60.00	60.00
94149	Analysis	0.00	0.00	60.44	60.44
94290	Analysis	0.00	0.00	57.90	57.90
	Analysis	0.00	0.00	57.86	57.86
Chilean Nitrate Sales Corp., New York, N.Y.					
Chilean Nitrate of Soda Champion Brand					
93496	Guaranteed	16.00	0.00	0.00	48.00
93692	Analysis	16.16	0.00	0.00	48.48
93738	Analysis	16.00	0.00	0.00	48.00
93750	Analysis	16.16	0.00	0.00	48.48
94246	Analysis	16.08	0.00	0.00	48.24
95357	Analysis	16.16	0.00	0.00	48.48
	Analysis	16.14	0.00	0.00	48.42
Colorado Fuel and Iron Corp., Denver, Colorado					
Silver Tip Sulphate of Ammonia					
94078	Guaranteed	20.50	0.00	0.00	61.50
94293	Analysis	20.56	0.00	0.00	61.68
	Analysis	20.10	0.00	0.00	60.30
Consolidated Chemical Industries, Inc., 640 Mellie Esperson Bldg., Houston 2, Texas					
T. C. C. Brand Raw Bone Meal					
93852	Guaranteed	3.70	22.00	0.00	24.30
93854	Analysis	4.04	22.30	0.00	25.50
95282	Analysis	3.98	22.90	0.00	25.68
	Analysis	4.30	22.40	0.00	26.34

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
	Crane Fertilizer Co., La Feria, Texas				
	Gro More 10-10-0 Liquid Fertilizer				
93824	Guaranteed	10.00	10.00	0.00	40.00
94494	Analysis	9.46	9.07	0.00	37.45
	Analysis	9.85	9.90	0.00	39.45
	Gro More Liquid 10-10-5 Fertilizer				
	Guaranteed	10.00	10.00	5.00	45.00
93823	Analysis	7.39	10.66	4.46	37.29
94493	Analysis	8.80	10.48	4.23	41.11
	Crawford Liquid Fertilizer Co., Carrizo Springs, Texas				
	Winter Garden Brand Liquid 10-10-0 Fertilizer				
93811	Guaranteed	10.00	10.00	0.00	40.00
	Analysis	9.94	7.87	0.00	37.69
	Vita-Gro 6-12-6 Liquid Fertilizer				
93812	Guaranteed	6.00	12.00	6.00	36.00
	Analysis	4.91	10.37	4.98	30.08
	The Davison Chemical Corp., Gretna, La.				
	Davco Bull Dog Fertilizer 4-12-4				
94356	Guaranteed	4.00	12.00	4.00	28.00
	Analysis	4.12	12.30	4.21	28.87
	Davco Bull Dog Fertilizer 5-10-5				
94357	Guaranteed	5.00	10.00	5.00	30.00
	Analysis	4.48	10.84	5.08	29.36
	E. I. Du Pont De Nemours and Co., Wilmington 98, Delaware				
	Du Pont Uramon Fertilizer Compound				
95367	Guaranteed	42.00	0.00	0.00	126.00
	Analysis	42.64	0.00	0.00	127.92
	East Texas Products Co., Tyler, Texas				
	Goldenrod 0-14-7 Plant Food				
93725	Guaranteed	0.00	14.00	7.00	21.00
94838	Analysis	0.00	12.74	8.18	20.92
	Analysis	0.00	13.38	7.82	20.70
	Goldenrod 4-8-8 Fertilizer				
94824	Guaranteed	4.00	8.00	8.00	28.00
94928	Analysis	4.00	8.36	7.45	27.81
94938	Analysis	4.00	8.19	8.13	28.32
94939	Analysis	4.00	8.03	8.17	28.20
	Goldenrod 4-12-4				
93733	Guaranteed	4.00	12.00	4.00	28.00
93911	Analysis	3.78	11.87	4.67	27.88
93974	Analysis	3.69	11.82	4.28	27.17
94043	Analysis	3.90	12.16	4.20	28.06
94510	Analysis	3.83	11.54	4.10	27.13
94517	Analysis	3.98	11.69	4.35	27.98
94571	Analysis	4.00	12.12	4.26	28.38
94580	Analysis	4.00	12.32	4.35	28.67
94591	Analysis	3.93	12.02	4.21	28.02
94658	Analysis	3.87	11.42	4.04	27.07
94792	Analysis	3.87	11.28	4.21	27.10
94799	Analysis	4.12	11.59	4.40	28.35
94818	Analysis	3.89	12.01	4.28	27.96
94829	Analysis	4.00	11.72	4.11	27.83
94836	Analysis	4.00	11.52	4.37	27.89
94889	Analysis	4.02	11.56	4.20	27.82
94907	Analysis	3.93	12.02	4.38	28.19
94919	Analysis	4.01	11.60	4.08	27.71
94937	Analysis	4.00	11.92	4.41	28.33
94943	Analysis	4.00	12.05	4.77	28.82
94948	Analysis	4.06	11.84	4.39	28.41
95167	Analysis	3.74	12.38	4.34	27.94
95264	Analysis	3.96	12.03	4.02	27.93

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
Goldenrod 5-10-5					
93724	Guaranteed	5.00	10.00	5.00	30.00
93910	Analysis	5.00	10.06	5.31	30.37
93973	Analysis	4.78	9.62	5.27	29.23
94042	Analysis	4.88	10.08	5.17	29.75
94516	Analysis	5.02	10.35	5.27	30.68
94572	Analysis	4.91	10.46	5.65	30.84
94581	Analysis	4.92	10.02	5.20	29.98
94592	Analysis	4.98	10.22	5.08	30.09
94678	Analysis	4.64	10.14	5.17	29.23
94680	Analysis	4.97	9.64	5.05	29.60
94718	Analysis	5.06	10.54	5.58	31.30
94742	Analysis	4.92	9.76	5.30	29.82
94759	Analysis	5.02	10.12	5.01	30.19
94791	Analysis	4.90	10.00	5.84	30.54
94798	Analysis	4.45	10.82	4.71	28.88
94819	Analysis	4.96	9.43	5.14	29.45
94823	Analysis	5.08	9.76	5.32	30.32
94828	Analysis	5.00	9.78	5.12	29.90
94837	Analysis	5.12	9.54	5.30	30.20
94843	Analysis	5.02	10.16	5.16	30.38
94856	Analysis	5.22	9.89	5.59	31.14
94871	Analysis	5.02	10.03	5.09	30.18
94908	Analysis	5.02	10.21	5.21	30.48
94929	Analysis	5.04	10.34	5.10	30.56
94936	Analysis	5.00	10.01	4.72	29.73
94949	Analysis	4.98	11.67	5.38	31.99
95189	Analysis	5.02	9.85	5.02	29.93
95258	Analysis	4.95	10.14	5.17	30.16
95260	Analysis	5.02	10.35	5.17	30.58
95262	Analysis	5.04	10.53	5.18	30.78
Goldenrod 6-10-4					
94844	Guaranteed	6.00	10.00	4.00	32.00
94859	Analysis	6.17	9.73	4.08	32.32
	Analysis	6.00	10.19	4.10	32.29
Goldenrod 8-8-8					
94860	Guaranteed	8.00	8.00	8.00	40.00
95261	Analysis	8.05	8.01	7.59	39.75
	Analysis	7.91	8.37	7.62	39.72
Goldenrod 10-20-10 Plantfood					
94920	Guaranteed	10.00	20.00	10.00	60.00
94927	Analysis	10.02	19.47	10.29	59.82
	Analysis	9.90	17.71	10.34	57.75
Goldenrod 20% Superphosphate					
93722	Guaranteed	0.00	20.00	0.00	20.00
93727	Analysis	0.00	20.62	0.00	20.62
	Analysis	0.00	20.40	0.00	20.40
Farmers Fertilizer Co., Texarkana, Texas					
Farmers 4-8-8 Fertilizer					
95432	Guaranteed	4.00	8.00	8.00	28.00
	Analysis	4.74	8.25	6.74	29.21
Farmers 5-10-5 Fertilizer					
95340	Guaranteed	5.00	10.00	5.00	30.00
95429	Analysis	4.84	10.76	4.79	30.07
95431	Analysis	5.40	10.02	5.01	31.23
95440	Analysis	5.30	9.86	5.22	30.98
95442	Analysis	5.00	10.11	5.37	30.48
	Analysis	5.18	10.42	4.77	30.73
Farmers 0-20-0 Superphosphate					
95339	Guaranteed	0.00	20.00	0.00	20.00
	Analysis	0.00	20.06	0.00	20.06

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
Fidelity Chemical Corp., Houston, Texas					
Fertilome					
93764	Guaranteed	6.00	12.00	4.00	34.00
93843	Analysis	5.69	12.89	4.53	34.49
93846	Analysis	5.90	12.26	4.68	34.64
94714	Analysis	6.20	12.15	4.06	34.81
95872	Analysis	5.88	12.47	4.26	34.37
		5.79	12.64	4.02	34.03
Fidelity 4-12-4 Fertilizer					
93548	Guaranteed	4.00	12.00	4.00	28.00
93573	Analysis	4.38	12.19	4.54	29.87
93589	Analysis	3.86	12.06	4.51	28.15
93603	Analysis	3.90	12.28	5.02	29.00
93631	Analysis	3.66	12.35	4.50	27.83
93766	Analysis	3.78	12.43	4.50	28.27
93847	Analysis	3.78	12.04	4.69	28.07
93867	Analysis	4.26	11.62	4.93	29.33
93923	Analysis	3.90	12.13	4.36	28.19
93963	Analysis	4.04	11.82	4.55	28.49
94143	Analysis	3.91	11.94	4.18	27.85
94161	Analysis	3.82	11.96	4.19	27.61
94262	Analysis	4.42	12.11	4.46	29.83
94352	Analysis	3.68	12.24	4.59	27.87
94380	Analysis	4.02	12.57	4.35	28.98
94426	Analysis	4.00	12.52	4.11	28.63
94438	Analysis	3.86	12.76	4.17	28.51
94447	Analysis	4.02	12.11	4.58	28.75
94452	Analysis	4.00	12.19	4.44	28.63
94556	Analysis	4.24	11.98	4.88	29.58
94585	Analysis	4.32	12.09	4.26	29.31
95039	Analysis	4.22	12.08	4.38	29.12
95064	Analysis	4.16	11.96	4.55	28.99
95069	Analysis	4.00	10.98	4.57	27.55
95078	Analysis	3.59	11.65	4.41	26.83
95089	Analysis	4.30	12.09	4.95	29.94
95126	Analysis	3.68	11.71	4.32	27.07
95133	Analysis	4.00	12.58	3.84	29.42
95139	Analysis	4.16	12.00	4.20	28.68
95143	Analysis	4.08	10.78	4.31	27.33
95155	Analysis	4.17	11.25	4.71	28.47
95204	Analysis	3.78	12.11	4.20	27.65
95208	Analysis	4.00	12.07	4.41	28.48
95218	Analysis	3.77	11.70	5.63	28.64
95223	Analysis	3.88	11.95	5.02	28.61
95233	Analysis	4.06	11.98	4.49	28.60
95237	Analysis	4.03	11.38	4.22	27.66
95246	Analysis	4.09	10.81	4.37	27.45
95279	Analysis	4.16	12.72	4.18	29.38
95284	Analysis	3.41	13.39	5.83	29.00
95285	Analysis	4.61	11.07	4.24	29.14
95294	Analysis	4.00	12.27	4.08	28.35
95301	Analysis	4.10	12.55	4.00	28.85
95309	Analysis	4.04	11.77	4.84	28.73
95370	Analysis	4.00	12.00	4.49	28.49
95399	Analysis	4.04	11.89	4.47	28.48
		4.16	11.53	4.33	28.34
Fidelity 5-10-5 Fertilizer					
93574	Guaranteed	5.00	10.00	5.00	30.00
93604	Analysis	4.85	10.25	5.45	30.25
93632	Analysis	5.00	10.87	5.37	31.24
93762	Analysis	4.57	11.10	5.22	30.03
93899	Analysis	4.61	10.24	5.42	29.49
		4.73	11.02	5.58	30.74

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
Fidelity 5-10-5 Fertilizer					
93924	Guaranteed	5.00	10.00	5.00	30.00
	Analysis	5.10	10.28	5.38	30.96
93950	Analysis	4.83	10.07	5.41	29.97
93970	Analysis	5.00	9.86	5.33	30.19
94144	Analysis	5.03	10.72	5.35	31.16
94152	Analysis	4.87	9.50	5.39	29.50
94166	Analysis	4.62	10.23	5.73	29.82
94179	Analysis	5.01	10.63	5.63	31.29
94263	Analysis	4.78	10.37	5.06	29.77
94353	Analysis	5.06	10.61	5.79	31.58
94360	Analysis	4.28	12.32	5.67	30.88
94448	Analysis	4.43	11.60	4.69	29.58
94453	Analysis	5.02	10.46	5.02	30.54
94470	Analysis	4.85	10.62	5.04	30.21
95090	Analysis	4.90	10.08	5.06	29.84
95127	Analysis	6.14	11.90	4.60	34.92
95134	Analysis	5.06	10.02	4.62	29.82
95140	Analysis	4.63	10.49	5.56	29.94
95147	Analysis	4.55	10.67	5.04	29.36
95214	Analysis	4.83	10.00	5.19	29.68
95238	Analysis	5.04	10.09	5.02	30.23
95300	Analysis	5.39	10.39	5.88	32.44
95359	Analysis	5.10	10.03	5.24	30.57
95371	Analysis	5.30	10.00	5.21	31.11
95398	Analysis	4.50	10.58	4.74	28.82
Fidelity 10-10-0					
	Guaranteed	10.00	10.00	0.00	40.00
94439	Analysis	9.44	10.56	0.00	38.88
95369	Analysis	9.02	10.14	0.00	37.20
Fidelity 20% Superphosphate					
	Guaranteed	0.00	20.00	0.00	20.00
93588	Analysis	0.00	21.28	0.00	21.28
93590	Analysis	0.00	21.38	0.00	21.38
93605	Analysis	0.00	21.18	0.00	21.18
93767	Analysis	0.00	21.63	0.00	21.63
93925	Analysis	0.00	21.01	0.00	21.01
94322	Analysis	0.00	20.46	0.00	20.46
95091	Analysis	0.00	20.02	0.00	20.02
95209	Analysis	0.00	20.56	0.00	20.56
95358	Analysis	0.00	20.09	0.00	20.09
Ford Motor Co., Dearborn, Michigan					
	Ford Ammonium Sulphate				
	Guaranteed	20.80	0.00	0.00	62.40
94332	Analysis	20.20	0.00	0.00	60.60
95207	Analysis	20.88	0.00	0.00	62.64
Gilmer Cotton Oil and Fertilizer Co., Gilmer, Texas					
	Texas Longhorn 0-14-7				
	Guaranteed	0.00	14.00	7.00	21.00
93786	Analysis	0.00	15.03	6.39	21.42
	Texas Longhorn 4-8-8 Fertilizer				
	Guaranteed	4.00	8.00	8.00	28.00
94528	Analysis	4.32	8.91	8.02	29.89
94537	Analysis	3.59	8.20	9.16	28.18
	Texas Longhorn 4-12-4 Fertilizer				
	Guaranteed	4.00	12.00	4.00	28.00
94534	Analysis	4.00	11.54	4.29	27.83
	Texas Longhorn 5-10-5 Fertilizer				
	Guaranteed	5.00	10.00	5.00	30.00
94500	Analysis	4.65	10.30	5.04	29.29
94535	Analysis	4.67	10.32	5.17	29.50
95459	Analysis	4.42	10.30	5.38	28.94

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
	Texas Longhorn 8-8-8 Fertilizer				
94501	Guaranteed	8.00	8.00	8.00	40.00
94536	Analysis	7.26	8.66	8.04	38.48
	Analysis	7.80	8.27	8.87	40.04
	Texas Longhorn 20% Superphosphate				
93890	Guaranteed	0.00	20.00	0.00	20.00
	Analysis	0.00	20.37	0.00	20.37
	Gorman Peanut Co., Gorman, Texas				
	Heart of Texas 4-12-4 Fertilizer				
95038	Guaranteed	4.00	12.00	4.00	28.00
95153	Analysis	4.16	11.78	4.62	28.88
	Analysis	4.04	11.10	4.30	27.52
	Heart of Texas 5-10-5 Fertilizer				
94220	Guaranteed	5.00	10.00	5.00	30.00
95154	Analysis	5.05	10.16	6.32	31.63
	Analysis	5.04	10.32	5.38	30.82
	Pabak 4-12-4 Fertilizer				
93656	Guaranteed	4.00	12.00	4.00	28.00
94219	Analysis	3.40	12.76	4.01	26.97
95230	Analysis	3.60	12.21	4.06	27.07
	Analysis	4.08	12.42	4.08	28.74
	Pabak Brand 5-10-5 Fertilizer				
94214	Guaranteed	5.00	10.00	5.00	30.00
95087	Analysis	5.06	10.40	6.54	32.12
	Analysis	4.38	11.60	4.68	29.42
	Pabak Brand 20% Superphosphate				
93655	Guaranteed	0.00	20.00	0.00	20.00
	Analysis	0.00	20.76	0.00	20.76
	International Minerals and Chemical Corp., Texarkana, Arkansas				
	International 0-14-7 Fertilizer				
93510	Guaranteed	0.00	14.00	7.00	21.00
93887	Analysis	0.00	14.90	7.37	22.27
94841	Analysis	0.00	13.68	7.81	21.49
	Analysis	0.00	12.77	8.48	21.25
	International 4-8-8 Fertilizer				
93503	Guaranteed	4.00	8.00	8.00	28.00
93619	Analysis	3.62	9.26	8.89	29.01
94343	Analysis	3.50	10.49	7.45	28.44
94743	Analysis	3.88	8.94	8.64	29.22
94760	Analysis	4.00	7.54	8.28	27.82
94778	Analysis	4.44	8.43	8.26	30.01
	Analysis	4.12	8.94	8.01	29.31
	International 4-12-4 Fertilizer				
94405	Guaranteed	4.00	12.00	4.00	28.00
94418	Analysis	3.89	12.40	4.34	28.41
94619	Analysis	3.85	12.02	4.56	28.13
94797	Analysis	4.02	11.01	4.38	27.45
94812	Analysis	3.93	11.40	4.31	27.50
94840	Analysis	4.02	11.95	4.49	28.50
94876	Analysis	4.16	11.71	4.40	28.59
95014	Analysis	4.06	12.12	4.41	28.71
95015	Analysis	3.84	12.24	4.02	27.78
95168	Analysis	4.33	12.02	4.38	29.39
95184	Analysis	3.80	12.01	4.31	27.72
95326	Analysis	3.92	12.00	4.02	27.78
95342	Analysis	3.90	11.47	4.38	27.55
	Analysis	4.04	11.76	4.74	28.62
	International 5-10-5 Fertilizer				
93515	Guaranteed	5.00	10.00	5.00	30.00
93788	Analysis	4.73	9.81	5.49	29.49
	Analysis	4.59	10.65	5.02	29.44

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
International 5-10-5 Fertilizer					
	Guaranteed	5.00	10.00	5.00	30.00
93944	Analysis	4.53	10.18	5.34	29.11
93968	Analysis	4.64	10.27	5.34	29.53
94017	Analysis	4.72	10.55	5.28	29.99
94028	Analysis	4.59	10.10	5.12	28.99
94054	Analysis	5.00	10.14	5.61	30.75
94334	Analysis	4.55	10.16	5.86	29.67
94342	Analysis	5.04	10.38	5.55	31.05
94346	Analysis	4.66	10.10	5.42	29.50
94397	Analysis	4.50	10.64	4.73	28.87
94401	Analysis	4.82	10.09	5.70	30.25
94404	Analysis	4.90	9.73	6.31	30.74
94410	Analysis	4.52	10.34	5.44	29.34
94417	Analysis	4.64	10.28	5.46	29.66
94419	Analysis	4.90	10.01	5.27	29.98
94421	Analysis	4.82	9.83	5.29	29.58
94481	Analysis	4.70	10.07	5.30	29.47
94503	Analysis	4.66	9.82	5.22	29.02
94608	Analysis	4.80	9.86	5.45	29.71
94620	Analysis	4.40	11.02	4.62	28.84
94629	Analysis	4.70	9.75	5.03	28.88
94631	Analysis	5.00	10.00	5.33	30.33
94644	Analysis	4.78	9.72	5.20	29.26
94646	Analysis	5.00	9.90	5.36	30.26
94677	Analysis	5.02	10.37	5.35	30.78
94710	Analysis	4.76	10.45	5.00	29.73
94721	Analysis	4.94	9.81	5.33	29.96
94761	Analysis	4.70	10.21	5.34	29.65
94779	Analysis	5.00	10.05	5.31	30.36
94788	Analysis	5.06	9.56	5.85	30.59
94789	Analysis	4.74	9.85	5.47	29.54
94796	Analysis	5.06	10.23	5.16	30.57
94839	Analysis	4.83	10.26	4.82	29.57
94858	Analysis	4.80	10.36	5.26	30.02
94890	Analysis	5.08	10.03	5.14	30.41
95013	Analysis	4.68	10.02	5.05	29.11
95169	Analysis	4.96	10.91	5.15	30.94
95327	Analysis	4.75	10.41	5.25	29.91
95334	Analysis	4.77	10.46	5.14	29.91
95343	Analysis	4.77	10.14	5.21	29.66
95423	Analysis	4.70	10.00	5.17	29.27
95426	Analysis	4.82	10.04	5.03	29.53
95427	Analysis	4.70	10.65	5.28	30.08
95433	Analysis	4.90	10.12	5.34	30.16
95438	Analysis	4.82	10.34	5.16	29.96
95450	Analysis	4.64	10.38	5.03	29.83
95458	Analysis	4.60	10.04	5.02	28.86
International 8-8-8 Fertilizer					
	Guaranteed	8.00	8.00	8.00	40.00
94406	Analysis	8.02	8.82	8.45	41.33
94709	Analysis	7.55	8.62	8.04	39.31
International 20% Superphosphate					
	Guaranteed	0.00	20.00	0.00	20.00
93501	Analysis	0.00	20.33	0.00	20.33
93506	Analysis	0.00	20.46	0.00	20.46
93511	Analysis	0.00	20.99	0.00	20.99
93512	Analysis	0.00	19.62	0.00	19.62
93520	Analysis	0.00	20.37	0.00	20.37
93558	Analysis	0.00	20.00	0.00	20.00
93611	Analysis	0.00	19.86	0.00	19.86
93615	Analysis	0.00	19.43	0.00	19.43
93617	Analysis	0.00	21.57	0.00	21.57
93623	Analysis	0.00	20.43	0.00	20.43

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
International 20% Superphosphate					
93728	Guaranteed	0.00	20.00	0.00	20.00
93787	Analysis	0.00	20.01	0.00	20.01
93888	Analysis	0.00	21.17	0.00	21.17
93982	Analysis	0.00	20.11	0.00	20.11
94135	Analysis	0.00	20.08	0.00	20.08
94396	Analysis	0.00	20.56	0.00	20.56
94482	Analysis	0.00	20.11	0.00	20.11
94630	Analysis	0.00	20.09	0.00	20.09
94813	Analysis	0.00	19.99	0.00	19.99
94857	Analysis	0.00	19.62	0.00	19.62
95016	Analysis	0.00	19.35	0.00	19.35
95047	Analysis	0.00	20.07	0.00	20.07
95170	Analysis	0.00	19.80	0.00	19.80
95185	Analysis	0.00	19.58	0.00	19.58
Sulphate of Potash-Magnesia					
94247	Guaranteed	0.00	0.00	21.00	21.00
94247	Analysis	0.00	0.00	22.20	22.20
50% Muriate of Potash					
93521	Guaranteed	0.00	0.00	50.00	50.00
93521	Analysis	0.00	0.00	56.03	56.03
Interstate Byproducts and Supply Co., Box 1142, Fort Worth, Texas					
Interstate Dried Ground Sheep Manure					
93673	Guaranteed	1.50	1.00	1.50	7.00
94308	Analysis	2.61	1.79	3.97	13.59
94308	Analysis	3.78	1.13	3.25	15.72
Jacksonville Fertilizer Co., Jacksonville, Texas					
Chief Brand 5-10-5 Fertilizer					
94691	Guaranteed	5.00	10.00	5.00	30.00
94702	Analysis	5.55	9.91	8.17	34.73
94724	Analysis	5.59	9.45	8.51	34.73
94725	Analysis	4.61	10.23	5.53	29.59
94804	Analysis	5.40	9.86	5.74	31.80
94814	Analysis	5.18	10.07	5.63	31.24
94817	Analysis	5.95	9.24	8.97	36.06
94879	Analysis	5.07	10.19	6.13	31.53
95001	Analysis	5.68	9.68	6.66	33.88
95188	Analysis	5.13	10.29	6.11	31.79
95188	Analysis	4.76	10.43	5.03	29.74
Chief 8-8-8 Fertilizer					
94639	Guaranteed	8.00	8.00	8.00	40.00
94690	Analysis	8.18	8.51	8.66	41.71
94701	Analysis	8.00	8.29	8.00	40.29
94708	Analysis	7.75	8.32	8.03	39.60
94742	Analysis	9.02	7.36	8.01	42.43
94832	Analysis	8.26	7.65	9.05	41.48
95462	Analysis	8.20	7.20	9.11	40.91
95462	Analysis	8.06	8.02	8.01	40.21
Red Tomato 5-10-5 Fertilizer					
93892	Guaranteed	5.00	10.00	5.00	30.00
93892	Analysis	4.51	10.46	5.54	29.53
Kelly Weber and Co., Inc., Lake Charles, La.					
Weber-King Fertilizer Special 4-12-4					
93849	Guaranteed	4.00	12.00	4.00	28.00
93997	Analysis	3.79	12.46	4.33	28.16
95055	Analysis	3.76	12.06	4.41	27.75
95095	Analysis	4.00	11.75	4.42	28.17
95097	Analysis	3.80	11.27	4.29	26.96
95105	Analysis	4.10	12.21	4.23	28.74
95389	Analysis	3.63	12.17	4.34	27.40
95401	Analysis	4.22	11.73	4.96	29.35
95401	Analysis	4.55	10.52	6.83	31.00

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
	Weber-King Brand Fertilizer Special 5-10-5				
93996	Guaranteed	5.00	10.00	5.00	30.00
	Analysis	4.53	10.12	5.10	28.81
95056	Analysis	4.62	9.97	5.03	28.86
95096	Analysis	4.80	10.17	5.07	29.64
95098	Analysis	4.42	9.93	5.81	29.00
95101	Analysis	5.02	10.02	5.40	30.48
95106	Analysis	4.60	10.47	5.24	29.69
95390	Analysis	4.76	10.40	4.46	29.14
95400	Analysis	5.14	9.90	5.93	31.25
	Weber-King Brand Superphosphate 20%				
95058	Guaranteed	0.00	20.00	0.00	20.00
	Analysis	0.00	19.46	0.00	19.46
	Kipfer Chemical Co., Harlingen, Texas				
	K W Brand 20% Superphosphate				
93754	Guaranteed	0.00	20.00	0.00	20.00
	Analysis	0.00	20.16	0.00	20.16
	Lake Charles Feed Co., Inc., Lake Charles, La.				
	Best Bet Brand Fertilizer Special 0-14-7				
94370	Guaranteed	0.00	14.00	7.00	21.00
	Analysis	0.00	15.73	7.61	23.34
	Best Bet Brand Fertilizer Special 4-12-4				
94329	Guaranteed	4.00	12.00	4.00	28.00
94362	Analysis	4.02	12.23	4.30	28.59
94371	Analysis	4.10	12.97	4.56	29.83
94374	Analysis	3.89	12.25	4.45	28.37
	Lion Oil Co., El Dorado, Arkansas				
	Lion Ammonium Nitrate 33.5%				
93666	Guaranteed	33.50	0.00	0.00	100.50
93686	Analysis	33.08	0.00	0.00	99.24
93971	Analysis	33.23	0.00	0.00	99.69
94075	Analysis	33.21	0.00	0.00	99.63
94243	Analysis	33.20	0.00	0.00	99.60
	33.15	0.00	0.00	0.00	99.45
	Marshall Cotton Oil Co., Marshall, Texas				
	Marshall 4-12-4 Fertilizer				
94508	Guaranteed	4.00	12.00	4.00	28.00
94918	Analysis	3.50	11.33	4.10	25.93
94978	Analysis	3.92	11.79	4.03	27.58
94980	Analysis	3.82	11.68	3.82	26.96
	Marshall 5-10-5 Fertilizer				
94502	Guaranteed	5.00	10.00	5.00	30.00
94507	Analysis	4.35	10.14	5.04	28.23
94955	Analysis	4.22	10.05	4.70	27.36
94979	Analysis	4.64	10.25	4.72	28.89
95448	Analysis	5.26	9.09	5.13	30.00
95452	Analysis	4.57	10.35	6.02	30.08
	5.06	9.90	5.17	30.25	
	Marshall 8-8-8 Fertilizer				
94509	Guaranteed	8.00	8.00	8.00	40.00
95453	Analysis	8.01	7.70	8.35	40.08
	7.75	8.19	8.04	39.48	
	Oil Mill and Fertilizer Works, Henderson, Texas				
	Wolf Brand 4-12-4 Fertilizer				
94023	Guaranteed	4.00	12.00	4.00	28.00
94100	Analysis	3.84	11.52	4.01	27.05
94899	Analysis	4.12	11.75	4.29	28.40
	4.31	10.24	4.43	27.60	

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
	Wolf Brand 5-10-5 Fertilizer				
94015	Guaranteed	5.00	10.00	5.00	30.00
94022	Analysis	4.48	9.95	3.27	26.66
94101	Analysis	4.14	11.36	4.29	28.07
94900	Analysis	4.66	10.12	3.45	27.55
94958	Analysis	4.83	10.15	4.36	29.00
	Wolf Brand 8-8-8 Fertilizer				
94872	Guaranteed	8.00	8.00	8.00	40.00
94945	Analysis	8.16	7.51	7.56	39.55
94993	Analysis	6.08	8.57	5.55	32.86
	Wolf Brand Superphosphate 20%				
94994	Guaranteed	0.00	20.00	0.00	20.00
95000	Analysis	0.00	19.45	0.00	19.45
	Phoenix Chemical Co., 912 N. 19th Ave., Phoenix, Arizona, P. O. Box 1239				
	Gro Crop Liquid 8-20-0				
93822	Guaranteed	8.00	20.00	0.00	44.00
	Analysis	7.35	20.94	0.00	42.99
	Port Fertilizer Co., Los Fresnos, Texas				
	Valley Port Brand Sulphate of Ammonia				
93747	Guaranteed	20.60	0.00	0.00	61.80
	Analysis	20.48	0.00	0.00	61.44
	Valley Port Brand 47% Superphosphate				
93717	Guaranteed	0.00	47.00	0.00	47.00
93748	Analysis	0.00	45.25	0.00	45.25
94245	Analysis	0.00	45.51	0.00	45.51
	Ralston Purina Co., St. Louis, Missouri				
	Purina Plant Food 5-10-5				
93687	Guaranteed	5.00	10.00	5.00	30.00
93739	Analysis	4.71	10.52	5.26	29.91
94877	Analysis	4.74	10.71	5.47	30.40
94989	Analysis	5.00	10.57	5.32	30.89
	Red Star Fertilizer Co., Sulphur Springs, Texas				
	Red Star 0-14-7 Fertilizer				
93500	Guaranteed	0.00	14.00	7.00	21.00
94780	Analysis	0.00	15.34	7.20	22.54
95311	Analysis	0.00	13.15	7.02	20.17
	Red Star 4-8-8 Fertilizer				
94606	Guaranteed	4.00	8.00	8.00	28.00
94637	Analysis	4.16	8.29	8.14	28.91
	Red Star Brand 4-12-4 Fertilizer				
93915	Guaranteed	4.00	12.00	4.00	28.00
93954	Analysis	4.12	11.03	4.24	27.63
94116	Analysis	3.80	10.43	4.43	26.26
94348	Analysis	3.81	12.04	4.25	27.72
94480	Analysis	4.04	11.97	4.01	28.10
94641	Analysis	3.92	10.58	4.61	26.95
94781	Analysis	3.84	10.99	4.53	27.04
94794	Analysis	4.04	10.81	4.28	27.21
94831	Analysis	4.04	11.06	4.29	27.47
95123	Analysis	4.12	10.95	4.09	27.40
95293	Analysis	3.80	11.31	4.18	26.89
95297	Analysis	4.00	11.19	3.84	27.03
95310	Analysis	3.88	10.93	4.55	27.12
95324	Analysis	4.00	10.56	4.36	26.92
95332	Analysis	3.80	11.12	4.38	26.90
95344	Analysis	4.00	10.94	4.01	26.95

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand			Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
93679	Red Star	5-10-5	Brand Fertilizer	4.92	9.71	5.72	30.19
93804	Analysis			4.69	9.34	5.71	29.12
93873	Analysis			4.76	9.69	5.60	29.57
93905	Analysis			4.76	9.47	5.56	29.31
93905	Analysis			4.76	9.47	5.56	29.31
93916	Analysis			4.78	9.86	5.31	29.51
94388	Analysis			5.00	9.74	5.52	30.26
94607	Analysis			4.97	10.19	5.36	30.46
94615	Analysis			4.65	10.39	5.04	29.38
94638	Analysis			5.02	9.71	5.40	30.17
94640	Analysis			5.17	10.01	5.68	31.20
94642	Analysis			5.01	9.68	5.45	30.16
94755	Analysis			4.61	10.09	5.37	29.29
94756	Analysis			5.22	8.89	5.28	29.83
94782	Analysis			4.82	9.47	5.04	28.97
94786	Analysis			5.04	9.02	5.30	29.44
94793	Analysis			5.02	9.62	5.49	30.17
94795	Analysis			5.00	9.78	5.19	29.97
94816	Analysis			5.09	9.92	5.24	30.43
94830	Analysis			4.81	9.33	5.26	29.02
95023	Analysis			4.83	9.42	5.03	28.94
95187	Analysis			4.70	9.61	5.06	28.77
95296	Analysis			4.81	10.09	5.30	29.82
95313	Analysis			4.69	9.34	5.33	28.74
95325	Analysis			5.00	9.57	5.60	30.17
95333	Analysis			4.80	10.14	5.17	29.71
95336	Analysis			5.04	9.65	5.75	30.52
95337	Analysis			5.00	10.17	5.33	30.50
95341	Analysis			4.80	11.18	5.03	30.56
95345	Analysis			4.92	9.12	5.13	29.01
95463	Analysis			4.43	10.32	5.76	29.37
Red Star	Brand	20% Superphosphate					
93498	Guaranteed			0.00	20.00	0.00	20.00
93557	Analysis			0.00	20.94	0.00	20.94
93613	Analysis			0.00	20.51	0.00	20.51
93675	Analysis			0.00	20.49	0.00	20.49
93680	Analysis			0.00	20.31	0.00	20.31
93775	Analysis			0.00	19.39	0.00	19.39
93872	Analysis			0.00	20.35	0.00	20.35
93892	Analysis			0.00	20.30	0.00	20.30
93893	Analysis			0.00	19.76	0.00	19.76
94344	Analysis			0.00	21.10	0.00	21.10
94692	Analysis			0.00	20.30	0.00	20.30
95124	Analysis			0.00	20.02	0.00	20.02
95312	Analysis			0.00	20.07	0.00	20.07
95314	Analysis			0.00	20.12	0.00	20.12
Red Star	Brand	4-16-0 Fertilizer					
93499	Guaranteed			4.00	16.00	0.00	28.00
	Analysis			3.84	15.62	0.00	27.14
Robin Jones Phosphate Co., 804 Church St., Nashville, Tenn.							
Robin Brand Florida Phosphate Soft Phosphate with Colloidal Clay							
94216	Guaranteed			0.00	22.00*	0.00	8.80
	Analysis			0.00	24.67*	0.00	9.87
The Rowland Fertilizer Co., Plainview, Texas							
All Crop 4-12-4 Fertilizer							
94282	Guaranteed			4.00	12.00	4.00	28.00
	Analysis			3.60	12.03	4.23	27.06
All Crop 5-10-5 Fertilizer							
94281	Guaranteed			5.00	10.00	5.00	30.00
	Analysis			4.25	10.32	4.92	27.99

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
La-Tex 0-20-0 Superphosphate					
93555	Guaranteed	0.00	20.00	0.00	20.00
93789	Analysis	0.00	20.02	0.00	20.02
94446	Analysis	0.00	19.41	0.00	19.41
94577	Analysis	0.00	20.44	0.00	20.44
94653	Analysis	0.00	21.10	0.00	21.10
95317	Analysis	0.00	20.03	0.00	20.03
		0.00	20.25	0.00	20.25
Lion 0-14-7 Fertilizer					
93672	Guaranteed	0.00	14.00	7.00	21.00
93730	Analysis	0.00	14.74	7.24	21.98
	Analysis	0.00	13.87	10.16	24.03
Lion Brand 4-8-8 Fertilizer					
94649	Guaranteed	4.00	8.00	8.00	28.00
94909	Analysis	4.87	10.44	6.21	31.26
94940	Analysis	4.90	9.75	8.34	32.79
	Analysis	5.10	9.56	6.90	31.76
Lion 4-12-4 Fertilizer					
93877	Guaranteed	4.00	12.00	4.00	28.00
93902	Analysis	3.01	12.98	4.99	27.00
94099	Analysis	3.89	12.39	4.32	28.38
94305	Analysis	4.27	10.61	5.33	28.75
94368	Analysis	4.04	12.17	5.29	29.58
94530	Analysis	4.02	12.42	4.48	28.96
94666	Analysis	4.48	10.88	6.93	31.25
94874	Analysis	4.47	10.98	4.41	28.80
94953	Analysis	4.68	11.32	4.24	29.60
95175	Analysis	4.38	11.39	4.50	29.03
95195	Analysis	3.30	12.76	4.24	26.90
95266	Analysis	4.44	10.88	4.72	28.92
	Analysis	4.00	12.32	4.87	28.69
Lion Brand 5-10-5 Fertilizer					
93505	Guaranteed	5.00	10.00	5.00	30.00
93671	Analysis	4.25	10.82	6.13	29.70
93903	Analysis	4.60	10.50	5.66	29.96
94052	Analysis	4.72	10.50	5.74	30.40
94194	Analysis	5.49	9.67	5.76	31.90
94304	Analysis	4.72	10.14	5.70	30.00
94347	Analysis	5.00	10.11	5.72	30.83
94369	Analysis	5.11	10.06	5.19	30.58
94416	Analysis	5.00	10.11	5.88	30.99
94506	Analysis	4.66	11.01	5.72	30.71
94531	Analysis	5.05	10.17	5.91	31.23
94628	Analysis	4.15	10.68	7.10	30.23
94635	Analysis	4.46	10.65	4.89	28.92
94650	Analysis	5.38	9.88	5.68	31.65
94664	Analysis	4.91	10.26	5.34	30.33
94668	Analysis	4.44	10.57	5.09	28.98
94820	Analysis	4.53	10.81	5.12	29.52
94865	Analysis	4.86	10.21	5.40	30.19
94901	Analysis	4.63	10.12	5.24	29.25
94902	Analysis	5.09	10.11	4.64	30.02
94910	Analysis	5.14	10.00	5.86	31.28
94965	Analysis	5.30	10.05	6.40	32.35
94977	Analysis	5.06	9.09	5.30	29.57
95159	Analysis	4.03	10.54	6.54	29.17
95160	Analysis	5.07	10.36	5.01	30.58
95176	Analysis	4.81	10.19	5.92	30.54
95267	Analysis	4.70	10.14	6.29	30.53
95338	Analysis	4.79	10.40	5.32	30.09
	Analysis	4.39	10.04	6.07	29.28

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
94529	Lion Brand 6-10-4 Fertilizer				
	Guaranteed	6.00	10.00	4.00	32.00
	Analysis	5.88	9.41	3.89	30.94
93785	Lion Brand 8-8-8 Fertilizer				
	Guaranteed	8.00	8.00	8.00	40.00
93946		7.60	8.51	8.24	38.55
93979		7.71	8.47	8.50	40.10
94051		7.85	9.02	8.02	40.59
94303		7.48	8.76	8.62	39.82
94409		8.03	8.32	8.27	40.68
94532		8.17	8.84	8.54	41.89
94634		7.58	8.41	8.32	39.47
94665		8.18	8.06	8.02	40.62
94667		7.72	8.07	9.04	40.27
94821		7.32	9.34	7.11	38.41
94873		7.71	8.09	7.65	38.87
94941		8.06	8.14	8.18	40.45
94976		8.11	8.24	7.82	40.39
95092		7.99	8.87	8.72	41.56
95196		7.52	8.15	8.70	39.41
	Analysis	8.08	8.21	8.14	40.59
93504	Lion Brand 20% Superphosphate				
	Guaranteed	0.00	20.00	0.00	20.00
93513		0.00	20.54	0.00	20.54
93668		0.00	20.82	0.00	20.82
93670		0.00	20.98	0.00	20.98
93735		0.00	20.71	0.00	20.71
93876		0.00	20.24	0.00	20.24
95268		0.00	19.34	0.00	19.34
	Analysis	0.00	20.87	0.00	20.87
94730	Longhorn 4-8-8 Fertilizer				
	Guaranteed	4.00	8.00	8.00	28.00
	Analysis	4.20	7.39	9.79	29.78
94772	Longhorn 4-12-4 Fertilizer				
	Guaranteed	4.00	12.00	4.00	28.00
94864		4.52	11.50	4.26	29.26
94972		4.95	10.94	4.81	30.60
95057		4.97	10.63	6.13	31.67
	Analysis	4.06	11.54	4.05	27.77
94731	Longhorn Brand 5-10-5 Fertilizer				
	Guaranteed	5.00	10.00	5.00	30.00
94771		5.26	9.45	5.88	31.11
94969		4.64	10.19	5.42	29.53
94973		5.10	9.77	5.64	30.71
	Analysis	5.08	10.26	5.57	31.07
93972	Longhorn Brand 8-8-8 Fertilizer				
	Guaranteed	8.00	8.00	8.00	40.00
94732		7.86	8.56	8.40	40.54
94770		8.00	8.13	8.18	40.31
94968		8.00	8.34	8.37	40.71
95445		8.04	8.15	8.04	40.31
	Analysis	7.46	8.04	8.48	38.90
93502	Longhorn 20% Superphosphate				
	Guaranteed	0.00	20.00	0.00	20.00
	Analysis	0.00	20.74	0.00	20.74
Smith Douglass Co., Inc., P. O. Box 1111, Shreveport, La.					
Smith Big Yield 4-12-4					
	Guaranteed	4.00	12.00	4.00	28.00
94398		4.01	11.84	4.28	28.15
94586		4.02	11.81	4.26	28.18
94972		4.97	10.63	6.13	31.67

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand		Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
Smith Big Yield 4-12-4						
94674	Guaranteed	.....	4.00	12.00	4.00	28.00
94745	Analysis	.....	4.08	11.35	4.19	27.78
94805	Analysis	.....	4.00	11.58	4.39	27.97
94861	Analysis	.....	4.05	11.53	4.30	27.98
94926	Analysis	.....	4.00	11.66	4.29	27.95
94960	Analysis	.....	4.02	11.53	4.15	27.74
94971	Analysis	.....	4.00	11.55	4.00	27.55
95062	Analysis	.....	4.04	11.41	4.49	28.02
95192	Analysis	.....	4.27	11.08	4.51	28.40
		.....	4.00	11.45	4.13	27.58
Smith Gro Grain						
93729	Guaranteed	.....	0.00	14.00	7.00	21.00
	Analysis	.....	0.00	14.48	7.14	21.62
Smith Gro Green 8-8-8 Fertilizer						
94006	Guaranteed	.....	8.00	8.00	8.00	40.00
94024	Analysis	.....	7.17	8.01	8.91	38.43
94055	Analysis	.....	7.37	8.29	8.34	38.74
95193	Analysis	.....	7.74	7.73	8.44	39.39
95425	Analysis	.....	7.90	8.20	8.10	40.00
		.....	7.80	8.00	7.36	37.86
Smith Money Maker 4-8-8						
94546	Guaranteed	.....	4.00	8.00	8.00	28.00
95461	Analysis	.....	4.06	8.06	7.48	27.72
	Analysis	.....	4.04	8.36	8.56	29.04
Smith Square Deal 5-10-5 Fertilizer						
93943	Guaranteed	.....	5.00	10.00	5.00	30.00
94005	Analysis	.....	4.85	11.01	5.42	30.98
94025	Analysis	.....	4.82	10.67	5.17	30.30
94094	Analysis	.....	5.00	10.54	5.09	30.63
94163	Analysis	.....	4.89	10.47	5.13	30.27
94399	Analysis	.....	4.86	10.16	5.34	30.08
94402	Analysis	.....	4.93	10.14	5.73	30.66
94407	Analysis	.....	5.03	10.53	5.28	30.90
94505	Analysis	.....	4.68	10.11	5.43	29.58
94547	Analysis	.....	4.87	10.14	5.44	36.19
94563	Analysis	.....	5.08	10.06	4.86	30.16
94599	Analysis	.....	5.00	10.58	5.14	30.72
94673	Analysis	.....	5.01	10.22	5.01	30.26
94698	Analysis	.....	5.06	10.21	5.20	30.59
94741	Analysis	.....	5.05	10.40	5.04	30.59
94744	Analysis	.....	5.00	9.19	5.12	29.31
94754	Analysis	.....	5.02	9.42	5.38	29.86
94806	Analysis	.....	5.22	9.68	5.65	30.99
94822	Analysis	.....	5.22	9.46	5.47	30.59
94862	Analysis	.....	5.00	10.17	5.29	30.46
94925	Analysis	.....	5.08	10.31	5.14	30.69
94961	Analysis	.....	5.00	10.03	5.21	30.31
94962	Analysis	.....	5.10	10.02	5.01	30.03
94982	Analysis	.....	5.18	9.42	5.02	29.98
94983	Analysis	.....	5.13	10.05	5.21	30.65
95063	Analysis	.....	5.01	9.77	5.20	30.00
95086	Analysis	.....	5.00	10.07	5.14	31.12
95186	Analysis	.....	5.00	10.09	5.00	30.09
95190	Analysis	.....	4.87	10.02	5.04	29.67
95191	Analysis	.....	4.92	10.06	5.17	29.99
95194	Analysis	.....	4.85	9.72	5.10	29.37
95257	Analysis	.....	4.91	9.84	5.35	29.92
95424	Analysis	.....	5.02	10.40	5.22	30.68
95436	Analysis	.....	5.10	10.33	5.36	30.99
95447	Analysis	.....	5.05	9.90	5.25	30.30
95451	Analysis	.....	4.77	10.28	5.24	29.83
95456	Analysis	.....	5.02	9.84	5.07	29.97

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand		Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
94400	Smith 20% Superphosphate Guaranteed	0.00	20.00	0.00	20.00	
94984	Analysis	0.00	20.12	0.00	20.12	
95052	Analysis	0.00	19.82	0.00	19.82	
	Analysis	0.00	19.96	0.00	19.96	
94564	Sulphate of Ammonia 20.6 Guaranteed	20.60	0.00	0.00	61.80	
94807	Analysis	20.44	0.00	0.00	61.32	
	Analysis	20.84	0.00	0.00	62.52	
93544	Soil Builders Inc., Dunnellen, Florida Min-Coll Brand Soft Phosphate Colloidal Clay Guaranteed	0.00	20.00*	0.00	8.00	
	Analysis	0.00	22.72**	0.00	9.09	
	Southern Acid and Sulphur Co., Inc., Pasadena, Texas Sasco-Phos Ammonium Phosphate Sulphate 16-20-0 Guaranteed	16.00	20.00	0.00	68.00	
93527	Analysis	15.84	20.47	0.00	67.99	
93539	Analysis	16.40	20.00	0.00	69.20	
93575	Analysis	16.08	19.65	0.00	67.89	
93580	Analysis	16.75	21.10	0.00	71.35	
93597	Analysis	16.16	20.52	0.00	69.00	
93602	Analysis	16.58	19.95	0.00	69.69	
93614	Analysis	16.00	20.05	0.00	68.05	
93624	Analysis	16.60	21.48	0.00	71.28	
93626	Analysis	16.26	19.99	0.00	68.77	
93633	Analysis	16.29	20.24	0.00	69.11	
93645	Analysis	16.05	20.13	0.00	68.28	
93665	Analysis	15.65	20.04	0.00	66.99	
93709	Analysis	16.06	19.17	0.00	67.35	
93715	Analysis	16.30	20.36	0.00	69.26	
93749	Analysis	16.40	20.34	0.00	69.54	
93757	Analysis	16.00	19.62	0.00	67.62	
93759	Analysis	16.34	19.68	0.00	68.70	
93798	Analysis	16.16	20.24	0.00	68.72	
93800	Analysis	16.30	20.34	0.00	69.24	
93870	Analysis	15.44	20.29	0.00	66.61	
93875	Analysis	15.79	20.23	0.00	67.60	
93880	Analysis	16.08	20.51	0.00	68.75	
93922	Analysis	15.71	20.24	0.00	67.37	
94063	Analysis	16.17	20.61	0.00	69.12	
94072	Analysis	16.26	19.73	0.00	68.51	
94077	Analysis	16.10	19.59	0.00	67.89	
94079	Analysis	16.52	19.17	0.00	68.73	
94080	Analysis	16.18	19.81	0.00	68.35	
94084	Analysis	15.65	19.99	0.00	66.94	
94104	Analysis	16.12	20.22	0.00	68.58	
94205	Analysis	15.17	20.86	0.00	66.37	
94237	Analysis	16.00	20.57	0.00	68.57	
94240	Analysis	15.75	20.05	0.00	67.30	
94242	Analysis	16.00	20.64	0.00	68.64	
94244	Analysis	16.04	20.19	0.00	68.31	
94249	Analysis	16.05	20.40	0.00	68.55	
94252	Analysis	16.06	20.11	0.00	68.29	
94257	Analysis	15.28	20.31	0.00	66.15	
94284	Analysis	15.70	20.14	0.00	67.24	
94289	Analysis	16.12	20.11	0.00	68.47	
94291	Analysis	16.17	20.16	0.00	68.67	
94292	Analysis	15.84	19.95	0.00	67.47	
94311	Analysis	15.98	20.88	0.00	68.82	
94318	Analysis	16.02	20.27	0.00	68.33	
94321	Analysis	16.00	20.10	0.00	68.10	
94325	Analysis	15.59	20.05	0.00	66.82	
94330	Analysis	15.27	20.16	0.00	65.97	

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
		16-20-0			
Sasco-Phos Ammonium Phosphate Sulphate 16-20-0					
Guaranteed		16.00	20.00	0.00	68.00
94341	Analysis	15.90	20.40	0.00	68.10
94361	Analysis	16.00	19.89	0.00	67.89
94376	Analysis	15.58	19.92	0.00	66.66
94384	Analysis	15.64	20.62	0.00	67.54
94713	Analysis	16.00	20.09	0.00	68.09
94805	Analysis	15.65	20.04	0.00	66.99
95002	Analysis	16.03	21.22	0.00	69.31
95020	Analysis	15.86	20.82	0.00	68.40
95149	Analysis	16.02	20.03	0.00	68.09
95229	Analysis	16.16	20.31	0.00	68.79
95240	Analysis	15.96	20.57	0.00	68.45
95250	Analysis	15.80	20.86	0.00	68.26
95288	Analysis	16.26	20.62	0.00	69.40
95291	Analysis	16.03	21.26	0.00	69.35
95302	Analysis	16.08	20.30	0.00	68.54
95303	Analysis	16.48	20.27	0.00	69.71
95305	Analysis	16.06	20.74	0.00	68.92
95307	Analysis	16.10	20.66	0.00	68.96
95319	Analysis	16.20	20.71	0.00	69.31
95384	Analysis	16.68	20.24	0.00	70.2*
95393	Analysis	15.67	20.59	0.00	67.60
95395	Analysis	16.04	20.51	0.00	68.63
Sasco 20% Superphosphate					
Guaranteed		0.00	20.00	0.00	20.00
93522	Analysis	0.00	21.77	0.00	21.77
93532	Analysis	0.00	20.93	0.00	20.93
93538	Analysis	0.00	21.19	0.00	21.19
93543	Analysis	0.00	21.46	0.00	21.46
93569	Analysis	0.00	21.19	0.00	21.19
93576	Analysis	0.00	21.12	0.00	21.12
93577	Analysis	0.00	21.78	0.00	21.78
93601	Analysis	0.00	20.96	0.00	20.96
93625	Analysis	0.00	21.04	0.00	21.04
93627	Analysis	0.00	21.84	0.00	21.84
93646	Analysis	0.00	21.48	0.00	21.48
93661	Analysis	0.00	21.36	0.00	21.36
93676	Analysis	0.00	22.02	0.00	22.02
93708	Analysis	0.00	21.31	0.00	21.31
93716	Analysis	0.00	21.87	0.00	21.87
93771	Analysis	0.00	21.32	0.00	21.32
93797	Analysis	0.00	21.36	0.00	21.36
93860	Analysis	0.00	20.46	0.00	20.46
93878	Analysis	0.00	21.21	0.00	21.21
93885	Analysis	0.00	21.13	0.00	21.13
93918	Analysis	0.00	21.36	0.00	21.36
94105	Analysis	0.00	21.09	0.00	21.09
94151	Analysis	0.00	20.09	0.00	20.09
94223	Analysis	0.00	21.02	0.00	21.02
94239	Analysis	0.00	20.30	0.00	20.30
94253	Analysis	0.00	20.34	0.00	20.34
94259	Analysis	0.00	20.29	0.00	20.29
94285	Analysis	0.00	20.53	0.00	20.53
94310	Analysis	0.00	20.78	0.00	20.78
94314	Analysis	0.00	20.62	0.00	20.62
94440	Analysis	0.00	21.91	0.00	21.91
94451	Analysis	0.00	20.39	0.00	20.39
94590	Analysis	0.00	20.80	0.00	20.80
94784	Analysis	0.00	20.03	0.00	20.03
95009	Analysis	0.00	19.75	0.00	19.75
95011	Analysis	0.00	20.82	0.00	20.82
95231	Analysis	0.00	20.72	0.00	20.72
95251	Analysis	0.00	20.52	0.00	20.52

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
Southwest Chemical Co., Inc., McAllen, Texas					
	Top Crop Liquid Fertilizer 6-12-0				
93815	Guaranteed	6.00	12.00	0.00	30.00
94487	Analysis	6.91	12.90	0.00	33.63
	Analysis	6.43	12.61	0.00	31.90
	Top Crop Liquid Fertilizer 10-10-0				
93813	Guaranteed	10.00	10.00	0.00	40.00
94488	Analysis	9.18	11.36	0.00	38.90
	Analysis	9.31	10.00	0.00	37.93
	Top Crop Liquid Fertilizer 10-10-5				
93814	Guaranteed	10.00	10.00	5.00	45.00
	Analysis	7.21	9.65	2.84	34.12
	Top Crop Liquid Fertilizer 6-12-6				
93816	Guaranteed	6.00	12.00	6.00	36.00
93821	Analysis	6.77	12.56	4.09	36.96
	Analysis	6.00	10.90	6.41	35.31
Southwest Fertilizer and Chemical Co., Clint, Texas					
	Valley Brand 47% Superphosphate				
94074	Guaranteed	0.00	47.00	0.00	47.00
	Analysis	0.00	45.15	0.00	45.15
Swift and Company, Houston, Texas, Shreveport, La., New Orleans, La.					
	Blenn 5-10-5				
93608	Guaranteed	5.00	10.00	5.00	30.00
93983	Analysis	5.08	10.95	5.16	31.35
94186	Analysis	4.63	10.84	5.33	30.06
94199	Analysis	4.52	10.36	5.01	28.93
94207	Analysis	5.14	10.54	5.19	31.15
94274	Analysis	5.20	10.71	4.70	31.01
94319	Analysis	4.99	10.13	5.14	30.24
94420	Analysis	4.72	10.23	5.02	29.41
94456	Analysis	4.83	10.83	5.48	30.80
94462	Analysis	5.17	10.29	5.08	30.83
94661	Analysis	5.04	10.41	4.52	30.05
95024	Analysis	4.71	9.94	4.64	28.71
95030	Analysis	5.16	9.98	4.30	29.76
95152	Analysis	5.08	9.49	5.08	29.76
95439	Analysis	4.87	9.95	5.12	29.68
	Red Steer Brand 0-14-7 Fertilizer				
93563	Guaranteed	0.00	14.00	7.00	21.00
93720	Analysis	0.00	12.50	7.78	20.28
94834	Analysis	0.00	13.81	6.60	20.41
	Analysis	0.00	13.47	7.51	20.98
	Red Steer Brand 4-8-8 Fertilizer				
94539	Guaranteed	4.00	8.00	8.00	28.00
94626	Analysis	4.26	8.36	8.12	29.26
94735	Analysis	4.10	8.54	9.38	30.22
	Analysis	4.02	8.40	7.06	27.52
	Red Steer Brand 4-12-4 Fertilizer				
93531	Guaranteed	4.00	12.00	4.00	28.00
93585	Analysis	4.04	13.13	4.56	29.81
93598	Analysis	4.00	11.72	4.53	28.25
93651	Analysis	3.73	11.86	4.29	27.34
93667	Analysis	3.77	12.07	4.47	27.85
93701	Analysis	4.00	12.01	4.92	28.93
93719	Analysis	4.01	11.75	5.46	29.24
93731	Analysis	3.55	12.35	4.01	27.01
93760	Analysis	3.56	12.36	4.01	27.05
93772	Analysis	3.62	12.00	4.40	27.26
	Analysis	3.93	12.03	4.39	28.21

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand				Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
Red Steer Brand 4-12-4 Fertilizer Guaranteed								
93780	Analysis	.....	4.00	12.00	4.00	28.00		
93851	Analysis	.....	3.56	12.21	4.08	26.97		
93853	Analysis	.....	4.04	11.92	4.07	28.11		
93942	Analysis	.....	4.08	11.74	4.09	28.07		
93952	Analysis	.....	4.38	12.82	4.06	30.02		
93959	Analysis	.....	4.01	11.69	4.03	27.75		
93967	Analysis	.....	3.72	12.11	4.47	27.74		
93984	Analysis	.....	3.73	12.12	4.03	27.34		
94016	Analysis	.....	3.82	12.37	4.48	28.31		
94021	Analysis	.....	3.80	11.87	4.27	27.54		
94057	Analysis	.....	3.64	12.36	3.58	26.86		
94058	Analysis	.....	3.93	12.59	4.24	28.62		
94097	Analysis	.....	3.84	12.71	4.35	28.58		
94124	Analysis	.....	3.90	11.84	4.20	27.74		
94142	Analysis	.....	4.25	11.59	4.05	28.39		
94150	Analysis	.....	3.82	11.41	4.04	26.91		
94165	Analysis	.....	4.01	11.44	4.76	28.23		
94176	Analysis	.....	4.22	12.40	4.51	29.57		
94187	Analysis	.....	4.00	12.36	4.36	28.72		
94200	Analysis	.....	3.68	12.32	4.84	28.20		
94203	Analysis	.....	4.07	12.30	4.55	29.06		
94206	Analysis	.....	4.03	12.07	4.83	28.49		
94213	Analysis	.....	3.91	12.97	4.30	29.00		
94215	Analysis	.....	4.00	12.35	4.18	28.53		
94271	Analysis	.....	3.90	12.02	4.43	28.15		
94312	Analysis	.....	4.15	12.04	4.82	28.81		
94335	Analysis	.....	3.60	12.54	3.75	27.09		
94350	Analysis	.....	4.00	12.26	4.22	28.48		
94354	Analysis	.....	3.80	12.33	4.25	27.98		
94358	Analysis	.....	4.28	12.28	4.14	29.26		
94359	Analysis	.....	4.17	12.27	4.06	28.84		
94373	Analysis	.....	4.02	12.51	4.03	28.60		
94377	Analysis	.....	3.85	12.15	4.02	27.72		
94435	Analysis	.....	4.12	12.19	4.27	28.82		
94455	Analysis	.....	4.02	12.39	4.39	28.84		
94471	Analysis	.....	4.00	12.25	3.82	28.07		
94518	Analysis	.....	3.71	12.27	4.60	28.00		
94533	Analysis	.....	4.10	12.24	4.02	28.56		
94540	Analysis	.....	3.64	12.24	4.84	28.00		
94561	Analysis	.....	4.00	12.44	4.15	28.59		
94567	Analysis	.....	3.90	12.12	4.02	27.84		
94573	Analysis	.....	3.92	12.14	4.03	27.93		
94578	Analysis	.....	3.86	12.56	4.02	28.16		
94611	Analysis	.....	3.69	12.04	4.18	27.29		
94625	Analysis	.....	3.72	12.09	4.20	27.45		
94651	Analysis	.....	3.71	12.19	4.01	27.33		
94657	Analysis	.....	4.01	11.96	4.03	28.02		
94662	Analysis	.....	3.83	12.10	4.24	27.83		
94683	Analysis	.....	4.38	11.27	4.23	28.64		
94699	Analysis	.....	4.04	12.18	4.14	28.44		
94705	Analysis	.....	4.20	11.86	3.86	28.32		
94845	Analysis	.....	3.70	11.76	4.08	26.94		
94868	Analysis	.....	4.00	11.66	4.15	27.81		
94888	Analysis	.....	4.00	12.40	4.22	28.62		
94922	Analysis	.....	3.78	12.09	4.39	27.82		
94956	Analysis	.....	4.30	11.80	4.34	29.04		
94966	Analysis	.....	4.14	11.71	4.41	28.54		
94988	Analysis	.....	4.00	12.10	4.05	28.15		
94991	Analysis	.....	3.84	12.36	4.32	28.20		
95010	Analysis	.....	4.09	12.54	3.75	28.56		
95018	Analysis	.....	3.67	12.23	4.21	27.45		

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
Red Steer Brand 4-12-4 Fertilizer					
95025	Guaranteed	4.00	12.00	4.00	28.00
95028	Analysis	4.00	11.55	4.01	27.56
95040	Analysis	4.12	12.06	3.56	27.98
95068	Analysis	4.26	12.17	4.31	29.26
95111	Analysis	4.06	11.58	4.28	28.04
95117	Analysis	3.67	12.18	4.03	27.17
95137	Analysis	3.69	12.16	4.00	27.23
95143	Analysis	3.76	12.02	4.18	27.48
95151	Analysis	3.83	12.22	4.18	27.89
95156	Analysis	3.56	12.59	3.70	26.97
95166	Analysis	3.98	11.99	4.02	27.95
95197	Analysis	4.00	12.38	4.08	28.46
95210	Analysis	3.84	12.00	4.02	27.54
95222	Analysis	3.79	12.02	4.16	27.55
95234	Analysis	3.93	12.67	4.02	28.48
95236	Analysis	3.93	11.90	4.28	27.97
95242	Analysis	4.00	11.61	4.11	27.72
95243	Analysis	4.02	11.67	4.22	27.95
95245	Analysis	3.78	11.81	4.10	27.25
95248	Analysis	4.10	11.60	3.82	27.72
95362	Analysis	4.18	12.20	4.26	29.00
95382	Analysis	4.28	11.75	4.10	28.69
95388	Analysis	3.80	12.40	4.41	28.21
95394	Analysis	4.02	12.08	4.23	28.87
95397	Analysis	4.04	11.61	4.03	27.76
Red Steer Brand 5-10-5 Fertilizer					
93562	Guaranteed	5.00	10.00	5.00	30.00
93586	Analysis	4.48	10.72	5.80	29.96
93599	Analysis	4.89	10.48	5.27	30.42
93689	Analysis	4.82	9.92	5.09	29.47
93761	Analysis	4.78	10.00	5.16	29.50
93778	Analysis	4.78	10.38	5.47	30.09
93784	Analysis	4.54	10.15	4.69	29.03
93791	Analysis	5.15	9.86	5.20	30.51
93909	Analysis	4.89	10.36	4.85	29.88
93917	Analysis	5.01	10.63	5.16	30.82
93928	Analysis	4.44	10.27	5.24	28.83
93948	Analysis	4.61	10.68	5.26	29.77
93969	Analysis	4.79	10.36	5.52	30.25
94014	Analysis	4.76	10.55	5.36	30.19
94020	Analysis	4.40	10.12	5.58	28.90
94044	Analysis	4.22	10.31	5.02	27.99
94056	Analysis	4.62	10.35	5.07	29.68
94059	Analysis	4.73	10.09	5.53	29.81
94096	Analysis	5.02	10.40	5.46	30.92
94123	Analysis	4.70	10.67	5.42	30.19
94145	Analysis	5.00	10.35	4.70	30.05
94177	Analysis	5.08	10.36	5.44	31.04
94180	Analysis	4.82	10.14	5.04	29.64
94202	Analysis	5.08	10.04	5.04	30.32
94212	Analysis	4.82	10.52	6.01	30.99
94273	Analysis	4.40	10.62	5.46	29.28
94378	Analysis	4.43	11.01	5.02	29.32
94415	Analysis	5.01	10.67	5.30	31.00
94422	Analysis	4.44	10.22	5.36	28.90
94472	Analysis	4.58	10.46	5.98	30.18
94498	Analysis	4.72	10.60	4.30	29.06
94504	Analysis	4.51	10.25	5.04	28.82
94538	Analysis	4.82	10.05	5.36	29.87
94544	Analysis	5.42	10.49	5.11	31.86
94562	Analysis	4.67	10.37	5.02	29.40

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand		Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
Red Steer Brand 5-10-5 Fertilizer						
94568	Guaranteed	.....	5.00	10.00	5.00	30.00
94574	Analysis	.....	5.00	10.77	5.02	30.79
94609	Analysis	.....	4.56	10.62	4.63	28.93
94624	Analysis	.....	4.83	10.02	5.24	29.75
94648	Analysis	.....	4.66	9.67	7.04	30.69
94669	Analysis	.....	4.83	10.39	5.23	30.11
94679	Analysis	.....	5.00	10.45	5.30	30.75
94700	Analysis	.....	4.85	10.40	4.56	29.51
94706	Analysis	.....	4.73	10.00	5.04	29.23
94717	Analysis	.....	4.66	10.46	5.40	29.84
94729	Analysis	.....	4.64	10.16	4.84	28.92
94733	Analysis	.....	4.60	10.13	5.66	29.59
94803	Analysis	.....	4.70	9.95	5.08	29.13
94835	Analysis	.....	4.14	9.98	5.03	27.43
94846	Analysis	.....	4.70	9.57	5.90	29.57
94869	Analysis	.....	4.65	9.75	5.40	29.10
94878	Analysis	.....	4.63	10.11	4.87	28.87
94898	Analysis	.....	4.82	9.86	5.03	29.35
94911	Analysis	.....	4.63	10.07	5.00	28.96
94913	Analysis	.....	4.75	9.95	5.66	29.86
94950	Analysis	.....	4.58	10.20	5.52	29.46
94957	Analysis	.....	5.14	10.12	5.40	30.94
94967	Analysis	.....	5.14	10.35	5.59	31.36
94992	Analysis	.....	5.00	10.09	5.02	30.11
95017	Analysis	.....	4.52	10.08	5.31	28.90
95112	Analysis	.....	4.76	10.02	5.20	29.70
95144	Analysis	.....	4.59	10.31	4.72	28.80
95213	Analysis	.....	4.86	9.81	5.27	29.66
95256	Analysis	.....	4.62	10.00	5.01	28.87
95396	Analysis	.....	5.02	10.20	4.72	29.98
95415	Analysis	.....	5.04	10.05	5.02	30.19
95449	Analysis	.....	4.64	10.62	5.43	29.97
95457	Analysis	.....	5.00	10.30	5.02	30.32
			5.01	10.32	5.13	30.48
Red Steer Brand 6-10-4 Fertilizer						
94018	Guaranteed	.....	6.00	10.00	4.00	32.00
94045	Analysis	.....	5.72	9.67	4.02	30.85
94545	Analysis	.....	5.65	9.75	4.35	31.05
94610	Analysis	.....	6.00	10.31	5.02	33.33
94734	Analysis	.....	6.02	10.00	4.63	32.69
94847	Analysis	.....	6.18	9.74	5.10	33.38
94866	Analysis	.....	5.70	9.91	4.01	31.02
			6.02	10.10	5.02	33.18
Red Steer Brand 6-12-0 Fertilizer						
93634	Guaranteed	.....	6.00	12.00	0.00	30.00
93792	Analysis	.....	5.81	12.46	0.00	29.89
94162	Analysis	.....	5.81	12.42	0.00	29.85
94663	Analysis	.....	5.83	12.74	0.00	30.23
			5.51	12.32	0.00	28.85
Red Star Brand 47% Superphosphate						
94067	Guaranteed	.....	0.00	47.00	0.00	47.00
	Analysis	.....	0.00	44.69	0.00	44.69
Red Steer 20% Superphosphate						
93518	Guaranteed	.....	0.00	20.00	0.00	20.00
93565	Analysis	.....	0.00	20.68	0.00	20.68
93591	Analysis	.....	0.00	20.65	0.00	20.65
93600	Analysis	.....	0.00	20.56	0.00	20.56
93612	Analysis	.....	0.00	19.68	0.00	19.68
93635	Analysis	.....	0.00	20.01	0.00	20.01
93702	Analysis	.....	0.00	21.05	0.00	21.05
			0.00	19.43	0.00	19.43

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand			Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
	Red Steer 20% Superphosphate						
93705	Guaranteed	.....	0.00	20.00	0.00	20.00	
	Analysis	.....	0.00	20.53	0.00	20.53	
93721	Analysis	.....	0.00	20.12	0.00	20.12	
93732	Analysis	.....	0.00	17.64	0.00	17.64	
93779	Analysis	.....	0.00	20.66	0.00	20.66	
93891	Analysis	.....	0.00	19.78	0.00	19.78	
94060	Analysis	.....	0.00	20.78	0.00	20.78	
94164	Analysis	.....	0.00	20.00	0.00	20.00	
94182	Analysis	.....	0.00	21.14	0.00	21.14	
94272	Analysis	.....	0.00	20.08	0.00	20.08	
94320	Analysis	.....	0.00	20.71	0.00	20.71	
94833	Analysis	.....	0.00	19.26	0.00	19.26	
94995	Analysis	.....	0.00	20.04	0.00	20.04	
95363	Analysis	.....	0.00	20.21	0.00	20.21	
	Vigoro						
93530	Guaranteed	.....	4.00	12.00	4.00	28.00	
	Analysis	.....	4.12	12.58	4.12	29.06	
93690	Analysis	.....	4.00	12.36	4.50	28.80	
93699	Analysis	.....	3.59	12.46	4.47	27.70	
93703	Analysis	.....	3.67	12.23	4.42	27.66	
93751	Analysis	.....	3.60	12.40	4.50	27.70	
93841	Analysis	.....	3.88	11.58	4.24	27.46	
94069	Analysis	.....	3.80	12.44	4.51	28.35	
94073	Analysis	.....	3.65	12.41	4.47	27.83	
94170	Analysis	.....	4.20	12.01	4.67	29.28	
94172	Analysis	.....	3.84	12.42	4.42	28.36	
94228	Analysis	.....	4.07	12.22	4.02	28.45	
94229	Analysis	.....	3.80	12.52	4.13	28.05	
94256	Analysis	.....	4.00	11.91	4.35	28.26	
94355	Analysis	.....	4.28	12.28	4.41	29.53	
94681	Analysis	.....	3.81	12.20	4.26	27.89	
94707	Analysis	.....	4.00	11.79	4.25	28.04	
94855	Analysis	.....	4.73	12.10	4.20	30.49	
95157	Analysis	.....	3.72	12.38	4.31	27.85	
	Vigoro for Commercial Growers						
93700	Guaranteed	.....	6.00	10.00	4.00	32.00	
	Analysis	.....	5.90	10.55	4.44	32.69	
93704	Analysis	.....	5.85	10.90	4.40	32.85	
93707	Analysis	.....	5.75	10.70	4.26	32.21	
93752	Analysis	.....	5.82	10.11	4.52	32.09	
93756	Analysis	.....	5.75	10.26	4.44	31.95	
94175	Analysis	.....	6.02	10.54	4.61	33.21	
94181	Analysis	.....	5.22	11.00	4.65	31.31	
94227	Analysis	.....	5.54	10.92	4.53	32.07	
94230	Analysis	.....	5.63	10.37	4.46	31.72	
	Synthetic Nitrogen Products Corp., 285 Madison Ave., New York 17, N.Y.						
	Cal-Nitro Fertilizer Compound 20.5 Nitrogen						
94441	Guaranteed	.....	20.50	0.00	0.00	61.50	
	Analysis	.....	20.60	0.00	0.00	61.80	
	Tennessee Corp., Cincinnati, Ohio						
	Loma 8-8-8						
94294	Guaranteed	.....	8.00	8.00	8.00	40.00	
	Analysis	.....	7.69	7.90	8.40	39.37	
	Texas Agricultural Supplies, Inc., Weslaco, Texas						
	Green Acres Brand 20-0-0						
93820	Guaranteed	.....	20.00	0.00	0.00	60.00	
	Analysis	.....	19.20	0.00	0.00	57.60	
	Texas Cotton Cooperative Assn., Pittsburg, Texas						
	Double Circle 4-8-8 Fertilizer						
94541	Guaranteed	.....	4.00	8.00	8.00	28.00	
94603	Analysis	.....	4.10	8.08	8.33	28.71	
	Analysis	.....	4.18	8.72	8.10	29.36	

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
94542	Double Circle 4-12-4 Fertilizer Guaranteed 4.00 12.00 4.00 28.00 Analysis 4.20 11.95 4.60 29.15				
94543	Double Circle 5-10-5 Fertilizer Guaranteed 5.00 10.00 5.00 30.00 Analysis 5.02 10.18 5.59 30.83				
94602	Analysis 5.03 9.93 5.77 30.79				
Texas Farm Products Company, Nacogdoches, Texas					
93790	Lone Star 0-14-7 Fertilizer Guaranteed 0.00 14.00 7.00 21.00 Analysis 0.00 15.05 7.32 22.37				
94127	Analysis 0.00 14.21 7.56 21.77				
94474	Lone Star 4-8-8 Fertilizer Guaranteed 4.00 8.00 8.00 28.00 Analysis 3.76 7.94 8.44 27.66				
94605	Analysis 4.04 8.31 8.30 28.73				
94623	Analysis 4.10 8.89 5.76 26.95				
94746	Analysis 4.22 8.17 8.13 28.96				
94775	Analysis 4.18 8.16 8.05 28.75				
94931	Analysis 4.13 8.00 8.01 28.40				
94944	Analysis 4.52 7.97 7.20 28.73				
95404	Analysis 3.82 9.04 6.48 26.98				
93897	Lone Star 4-12-4 Fertilizer Guaranteed 4.00 12.00 4.00 28.00 Analysis 3.80 11.91 4.30 27.61				
93900	Analysis 3.87 12.02 4.64 28.27				
93940	Analysis 3.73 12.28 4.26 27.70				
93975	Analysis 3.93 12.20 4.39 28.38				
93986	Analysis 3.74 11.62 4.44 27.28				
93993	Analysis 3.82 12.06 4.05 27.57				
93999	Analysis 3.82 12.59 4.01 28.06				
94000	Analysis 3.81 11.86 4.28 27.57				
94026	Analysis 3.87 11.90 4.21 27.72				
94047	Analysis 5.02 12.76 4.22 32.04				
94050	Analysis 4.83 12.54 4.17 31.20				
94098	Analysis 4.65 12.80 4.21 30.96				
94110	Analysis 4.66 12.51 4.18 30.67				
94113	Analysis 3.73 11.94 4.26 27.39				
94118	Analysis 3.73 11.47 4.45 27.11				
94126	Analysis 3.55 12.08 4.17 26.90				
94128	Analysis 3.65 12.00 4.19 27.14				
94146	Analysis 3.69 11.59 4.43 27.09				
94364	Analysis 3.85 12.57 4.72 28.84				
94367	Analysis 4.45 12.29 4.00 29.64				
94427	Analysis 4.97 12.66 4.51 32.08				
94434	Analysis 4.08 12.33 4.30 28.87				
94473	Analysis 4.00 11.65 4.36 28.01				
94483	Analysis 4.55 12.61 4.19 30.45				
94527	Analysis 4.06 11.23 4.42 27.83				
94554	Analysis 4.08 11.45 4.29 27.98				
94569	Analysis 4.00 11.62 4.53 28.15				
94686	Analysis 4.04 12.14 4.30 28.56				
94696	Analysis 4.12 12.08 4.38 28.77				
94719	Analysis 4.04 12.12 4.62 28.86				
94737	Analysis 4.95 12.26 4.80 31.41				
94777	Analysis 3.92 11.81 4.14 27.71				
94809	Analysis 4.11 12.05 4.16 28.54				
94884	Analysis 4.04 12.04 4.47 28.63				
94893	Analysis 4.08 12.04 4.24 28.52				
94905	Analysis 4.08 12.07 4.38 28.69				
94915	Analysis 4.29 12.00 4.44 29.31				
94932	Analysis 4.08 12.04 4.02 28.30				

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
Lone Star 4-12-4 Fertilizer					
94935	Guaranteed	4.00	12.00	4.00	28.00
94970	Analysis	4.14	12.07	4.24	28.73
94974	Analysis	4.04	12.00	4.34	28.46
94990	Analysis	4.00	11.92	4.35	28.27
94998	Analysis	4.00	12.05	4.38	28.43
95006	Analysis	4.14	12.02	4.46	28.90
95019	Analysis	3.67	12.13	4.40	27.54
95041	Analysis	4.02	12.16	4.02	28.24
95050	Analysis	4.10	12.31	4.20	28.81
95059	Analysis	4.04	11.79	4.24	28.15
95070	Analysis	4.00	11.84	4.27	28.11
95075	Analysis	4.02	12.00	4.01	28.07
95076	Analysis	4.38	12.10	4.48	29.72
95102	Analysis	3.69	12.26	4.10	27.43
95113	Analysis	3.70	12.16	4.02	27.28
95115	Analysis	3.82	11.97	4.09	27.52
95161	Analysis	4.02	12.09	4.28	28.43
95173	Analysis	4.00	12.18	4.21	28.39
95180	Analysis	4.04	12.07	4.32	28.51
95183	Analysis	4.02	12.16	4.12	28.34
95402	Analysis	4.14	12.65	4.36	29.43
95411	Analysis	4.10	12.17	4.19	28.66
95443	Analysis	4.14	12.52	4.36	29.30
95460	Analysis	3.72	12.09	4.29	27.54
Lone Star Brand 5-10-5 Fertilizer					
93509	Guaranteed	5.00	10.00	5.00	30.00
93776	Analysis	4.75	11.23	5.04	30.52
93864	Analysis	4.68	11.19	5.10	30.33
93886	Analysis	4.79	10.21	5.65	30.23
93896	Analysis	4.29	10.86	5.09	28.82
93898	Analysis	4.72	10.34	5.36	30.06
93901	Analysis	4.63	10.68	5.17	29.69
93933	Analysis	4.91	10.82	5.55	31.10
93939	Analysis	4.76	10.02	5.47	29.77
93945	Analysis	4.76	10.13	5.62	30.03
93976	Analysis	4.63	10.22	5.24	29.35
93985	Analysis	4.84	9.54	5.54	29.60
93992	Analysis	4.62	10.22	5.14	29.22
93998	Analysis	5.02	10.00	5.35	30.41
94001	Analysis	4.64	10.12	5.39	29.43
94027	Analysis	4.87	10.57	5.52	30.70
94046	Analysis	4.71	9.75	5.35	29.23
94049	Analysis	4.93	10.29	5.31	30.39
94095	Analysis	4.84	10.08	5.20	29.80
94109	Analysis	4.71	10.10	5.32	29.55
94112	Analysis	4.93	10.10	5.41	30.30
94119	Analysis	4.44	10.79	5.04	29.15
94125	Analysis	4.82	10.23	5.43	30.12
94129	Analysis	4.84	10.20	5.48	30.20
94138	Analysis	4.73	11.21	5.51	30.91
94147	Analysis	4.68	10.21	5.42	29.67
94365	Analysis	4.78	9.80	5.32	29.46
94436	Analysis	4.82	10.60	5.08	30.14
94450	Analysis	5.00	10.39	5.44	30.83
94475	Analysis	5.01	10.02	5.52	30.57
94476	Analysis	4.74	9.98	5.20	29.40
94484	Analysis	5.08	10.37	5.10	30.56
94521	Analysis	4.83	10.03	5.38	29.90
94526	Analysis	5.00	10.22	5.31	30.53
94555	Analysis	5.00	10.39	5.20	30.59
		5.02	10.20	5.21	30.47

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
Lone Star Brand 5-10-5 Fertilizer					
94570	Guaranteed	5.00	10.00	5.00	30.00
94593	Analysis	5.20	10.90	5.32	31.82
94595	Analysis	5.04	10.22	5.42	30.76
94604	Analysis	5.04	10.42	5.24	30.78
94622	Analysis	5.02	10.22	5.15	30.43
94682	Analysis	4.79	10.07	5.26	29.70
94687	Analysis	5.00	8.97	5.21	29.18
94697	Analysis	5.25	10.03	5.29	31.07
94715	Analysis	5.02	10.01	5.37	30.44
94720	Analysis	5.20	10.35	5.33	31.28
94736	Analysis	5.00	9.77	5.21	29.98
94747	Analysis	5.00	10.05	5.33	30.38
94758	Analysis	5.00	9.50	5.14	29.64
94766	Analysis	5.14	10.07	5.17	30.24
94785	Analysis	4.92	10.51	5.31	30.58
94802	Analysis	5.00	10.14	5.37	30.51
94808	Analysis	5.04	9.96	5.43	30.51
94810	Analysis	5.20	10.19	5.18	30.92
94853	Analysis	5.52	9.80	5.46	31.82
94854	Analysis	5.18	9.90	5.22	30.66
94867	Analysis	5.09	9.44	5.03	29.74
94885	Analysis	5.14	9.91	5.39	30.72
94894	Analysis	5.02	9.79	5.15	30.00
94903	Analysis	5.01	10.31	5.23	30.57
94906	Analysis	5.20	10.05	5.08	30.73
94921	Analysis	5.06	10.26	5.32	30.76
94933	Analysis	5.04	9.48	5.30	29.90
94934	Analysis	4.99	10.10	5.26	30.33
94975	Analysis	5.14	10.07	5.37	30.86
94981	Analysis	5.24	10.04	5.19	30.95
95005	Analysis	5.24	9.97	4.97	30.66
95012	Analysis	5.02	10.17	5.18	30.41
95042	Analysis	5.18	10.01	5.16	30.71
95051	Analysis	5.12	10.52	5.17	31.05
95060	Analysis	4.85	10.15	5.40	30.10
95061	Analysis	5.00	9.81	5.15	29.96
95071	Analysis	5.07	10.01	5.13	30.35
95074	Analysis	5.16	10.03	5.06	30.57
95080	Analysis	4.84	10.05	5.22	29.77
95108	Analysis	4.88	10.10	5.01	29.75
95114	Analysis	4.82	9.61	4.80	28.87
95116	Analysis	5.06	10.02	5.14	30.34
95174	Analysis	4.57	10.74	5.02	29.47
95179	Analysis	5.02	9.05	5.30	29.41
95181	Analysis	5.10	10.12	5.17	30.59
95263	Analysis	4.77	10.55	4.95	29.81
95403	Analysis	4.73	10.44	5.00	29.63
95410	Analysis	5.38	10.09	5.26	31.49
95444	Analysis	5.52	10.27	5.33	32.16
Lone Star Brand 6-12-0 Fertilizer					
93941	Guaranteed	6.00	12.00	0.00	30.00
94048	Analysis	5.55	12.25	0.00	28.90
Lone Star Brand 20% Superphosphate					
94437	Guaranteed	0.00	20.00	0.00	20.00
	Analysis	0.00	22.08	0.00	22.08
Texas Liquid Fertilizer Company, La Feria, Texas					
Texas Liquid 10-10-5 Fertilizer					
93826	Guaranteed	10.00	10.00	5.00	45.00
	Analysis	10.25	9.79	5.50	46.04

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand		Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
	Texas Liquid 10-20-0 Fertilizer					
93827	Guaranteed	10.00	20.00	0.00	50.00	
94494	Analysis	10.08	19.51	0.00	49.75	
	Analysis	10.07	21.32	0.00	51.53	
	Texas Liquid 15-8-4 Fertilizer					
93825	Guaranteed	15.00	8.00	4.00	57.00	
94491	Analysis	14.87	7.83	4.39	56.83	
	Analysis	15.01	8.18	4.14	57.35	
	Texas Liquid 0-25-5 Fertilizer					
93829	Guaranteed	0.00	25.00	5.00	30.00	
94490	Analysis	0.00	24.84	5.13	29.97	
	Analysis	0.00	34.10	4.56	38.66	
	Texas Liquid 12-15-0 Fertilizer					
93828	Guaranteed	12.00	15.00	0.00	51.00	
	Analysis	11.11	23.24	0.00	56.57	
	Texas Liquid 5-15-5 Fertilizer					
94489	Guaranteed	5.00	15.00	5.00	35.00	
	Analysis	5.10	15.23	5.60	36.13	
	Thompson Phosphate Company, Chicago, Illinois					
	Four Leaf Powdered Rock Phosphate					
94411	Guaranteed	0.00	31.00*	0.00	12.40	
	Analysis	0.00	32.05*	0.00	12.82	
	Tyler Fertilizer Company, 420 S. Oakland, Tyler, Texas					
	Heart Brand Fertilizer 0-14-7					
94038	Guaranteed	0.00	14.00	7.00	21.00	
94852	Analysis	0.00	13.05	8.50	21.55	
	Analysis	0.00	14.02	7.19	21.21	
	Heart Brand 4-8-8 Fertilizer					
95269	Guaranteed	4.00	8.00	8.00	28.00	
	Analysis	4.25	6.88	9.02	28.65	
	Heart Brand Fertilizer 5-10-5					
94037	Guaranteed	5.00	10.00	5.00	30.00	
94040	Analysis	4.73	10.64	5.39	30.22	
95270	Analysis	4.61	10.79	6.33	30.95	
	Analysis	5.10	10.62	5.04	30.96	
	Heart Brand Fertilizer 6-10-4					
94036	Guaranteed	6.00	10.00	4.00	32.00	
	Analysis	5.50	11.23	3.78	31.51	
	Heart Brand Fertilizer 8-8-8					
94811	Guaranteed	8.00	8.00	8.00	40.00	
95265	Analysis	8.15	8.94	8.02	41.41	
	Analysis	7.00	8.32	8.10	38.42	
	Heart Brand Economy 10-20-0					
94076	Guaranteed	10.00	20.00	0.00	50.00	
94851	Analysis	9.52	21.22	0.00	49.78	
	Analysis	9.74	19.01	0.00	48.23	
	Heart Brand Fertilizer 10-30-0 *					
94035	Guaranteed	10.00	30.00	0.00	60.00	
94081	Analysis	8.92	26.32	0.00	53.08	
	Analysis	8.96	27.42	0.00	54.30	
	Heart Brand Economy 10-20-10					
94034	Guaranteed	10.00	20.00	10.00	60.00	
94391	Analysis	8.60	20.44	10.46	56.70	
94875	Analysis	9.63	17.59	11.20	57.68	
95271	Analysis	8.89	19.93	9.74	56.34	
95422	Analysis	9.26	19.69	10.17	57.64	
	Analysis	9.20	20.05	10.38	58.03	
	Heart Brand Economy 9-15-6					
94033	Guaranteed	9.00	15.00	6.00	48.00	
94041	Analysis	6.91	16.56	6.48	43.77	
	Analysis	6.78	16.24	7.57	44.15	

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
	Heart Brand Economy 8-16-16				
94039	Guaranteed	8.00	16.00	16.00	56.00
	Analysis	7.16	15.21	16.02	52.71
	Virginia-Carolina Chemical Corporation, Shreveport, Louisiana				
	V-C Fertilizer 0-14-7				
93561	Guaranteed	0.00	14.00	7.00	21.00
93783	Analysis	0.00	13.86	7.75	21.61
93808	Analysis	0.00	14.02	7.19	21.21
93989	Analysis	0.00	14.37	6.35	20.72
94108	Analysis	0.00	14.02	7.22	21.24
	V-C Fertilizer 4-8-8				
94465	Guaranteed	4.00	8.00	8.00	28.00
94514	Analysis	3.69	8.33	8.04	27.44
94617	Analysis	4.00	8.08	8.18	28.26
95033	Analysis	4.02	8.17	8.04	28.27
95408	Analysis	4.23	8.37	7.50	28.56
95418	Analysis	4.00	8.34	7.61	27.95
	V-C Fertilizer 4-12-4				
93516	Guaranteed	4.00	12.00	4.00	28.00
93653	Analysis	3.67	12.88	4.38	28.27
93850	Analysis	4.00	12.44	4.74	29.18
93855	Analysis	3.82	12.50	4.35	28.31
93913	Analysis	3.79	12.39	4.38	28.14
93926	Analysis	3.68	12.69	4.10	27.83
93936	Analysis	3.83	12.96	4.53	28.98
93980	Analysis	3.80	12.58	4.29	28.27
93990	Analysis	3.83	12.42	4.34	28.31
94007	Analysis	3.55	11.82	4.44	26.91
94107	Analysis	3.71	12.12	4.16	27.41
94137	Analysis	3.68	12.31	4.30	27.65
94328	Analysis	3.73	12.21	4.55	27.95
94372	Analysis	3.78	12.11	4.40	27.85
94430	Analysis	3.82	12.56	4.38	28.40
94478	Analysis	3.64	12.54	4.16	27.62
94513	Analysis	3.80	12.11	4.21	27.72
94522	Analysis	3.86	12.49	4.16	28.23
94557	Analysis	3.95	12.46	4.01	28.32
94575	Analysis	4.06	12.31	4.32	28.81
94618	Analysis	4.12	12.30	4.38	29.04
94711	Analysis	4.00	12.38	4.03	28.41
94825	Analysis	3.76	12.91	4.03	28.22
94886	Analysis	4.00	12.13	4.02	28.15
94942	Analysis	3.97	12.16	4.17	28.24
94963	Analysis	4.06	12.64	4.12	28.94
94985	Analysis	4.10	12.22	4.21	28.78
95048	Analysis	4.02	12.34	4.07	28.47
95053	Analysis	4.00	12.01	4.17	28.18
95077	Analysis	4.12	12.21	4.20	28.77
95087	Analysis	4.16	12.15	4.29	28.92
95093	Analysis	3.81	12.00	4.20	27.63
95107	Analysis	4.00	12.10	4.38	28.48
95109	Analysis	3.69	12.22	4.16	27.45
95119	Analysis	3.69	12.02	4.52	27.61
95136	Analysis	3.88	12.41	4.03	28.08
95162	Analysis	4.04	12.01	4.54	28.67
95164	Analysis	4.00	12.08	4.20	28.28
95241	Analysis	3.65	12.04	4.11	27.10
95286	Analysis	4.06	11.96	4.19	28.38
95361	Analysis	4.06	12.24	4.07	28.49
95385	Analysis	4.02	12.02	4.16	28.24
95392	Analysis	3.85	12.72	4.33	28.60
95417	Analysis	4.00	12.16	4.02	28.18
	Analysis	3.78	12.21	4.26	27.81

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
V-C Fertilizer 5-10-5					
93507	Guaranteed	5.00	10.00	5.00	30.00
93773	Analysis	4.78	10.50	5.03	29.87
93781	Analysis	4.67	10.75	5.53	30.29
93856	Analysis	4.23	11.54	5.36	29.59
93862	Analysis	4.79	10.50	5.37	30.24
93914	Analysis	4.79	10.72	5.30	30.39
93927	Analysis	4.60	10.67	5.30	29.77
93951	Analysis	4.51	10.76	5.28	29.57
93977	Analysis	5.00	10.24	5.09	30.33
93981	Analysis	4.63	10.09	5.54	29.52
93988	Analysis	4.81	10.05	4.71	29.19
93991	Analysis	4.57	9.95	5.20	28.85
94008	Analysis	4.70	10.70	5.09	29.89
94011	Analysis	4.78	10.39	5.08	29.81
94106	Analysis	4.71	10.04	5.26	29.43
94136	Analysis	4.71	10.56	5.21	29.90
94140	Analysis	4.45	10.00	5.54	28.89
94349	Analysis	4.61	10.20	5.20	29.23
94395	Analysis	5.10	10.47	5.39	31.16
94431	Analysis	4.54	10.14	5.32	29.08
94466	Analysis	4.90	10.46	5.16	30.32
94479	Analysis	4.68	10.61	5.15	29.80
94497	Analysis	4.44	10.41	5.00	28.73
94512	Analysis	4.87	10.14	5.04	29.79
94515	Analysis	5.00	10.28	5.11	30.89
94558	Analysis	5.02	10.11	5.41	30.58
94579	Analysis	4.90	10.18	5.06	29.94
94601	Analysis	4.77	10.27	5.09	29.67
94616	Analysis	5.00	10.37	5.10	30.47
94627	Analysis	4.87	10.54	5.33	30.48
94636	Analysis	4.90	10.24	5.23	30.17
94671	Analysis	5.02	10.41	5.23	30.70
94684	Analysis	4.66	10.27	5.15	29.40
94694	Analysis	4.89	10.09	5.02	29.78
94752	Analysis	5.00	10.07	5.29	30.36
94757	Analysis	4.90	10.02	5.00	29.72
94800	Analysis	5.16	10.18	5.08	30.74
94887	Analysis	5.02	10.10	5.40	30.56
94892	Analysis	5.00	10.44	5.80	31.24
94896	Analysis	4.86	10.38	5.25	30.21
94897	Analysis	5.51	9.83	5.18	31.54
94904	Analysis	5.06	10.05	5.38	30.61
94912	Analysis	4.71	10.40	5.04	29.57
94964	Analysis	4.82	10.42	5.20	30.08
94986	Analysis	5.04	10.46	5.23	30.81
94996	Analysis	4.93	10.15	5.09	30.03
95035	Analysis	5.00	10.30	5.32	30.62
95049	Analysis	5.09	10.20	5.35	30.82
95054	Analysis	5.08	9.94	5.15	30.33
95072	Analysis	5.30	9.81	5.30	31.01
95079	Analysis	5.10	10.06	5.02	30.38
95094	Analysis	5.20	10.05	5.13	30.78
95110	Analysis	4.60	9.84	5.22	28.86
95120	Analysis	4.70	10.16	4.63	28.89
95135	Analysis	4.87	9.65	4.75	29.01
95165	Analysis	5.00	10.07	5.02	30.09
95287	Analysis	4.66	10.52	5.24	29.74
95290	Analysis	4.69	10.00	5.26	29.13
95391	Analysis	5.23	10.03	5.11	30.83
95416	Analysis	5.28	9.76	5.21	30.81

Table 7. Analyses of commercial fertilizers sampled during 1948-49

Laboratory number	Manufacturer, place of business and brand		Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found, per ton
V-C Fertilizer 6-10-4						
93934	Guaranteed	.....	6.00	10.00	4.00	32.00
	Analysis	.....	5.52	11.06	4.48	32.10
94753	Analysis	.....	6.01	9.44	4.35	31.82
95034	Analysis	.....	5.77	10.02	4.38	31.71
95283	Analysis	.....	5.94	10.00	4.15	31.97
V-C Fertilizer 6-12-0						
93935	Guaranteed	.....	6.00	12.00	0.00	30.00
	Analysis	.....	5.43	13.32	0.00	29.61
95295	Analysis	.....	5.92	12.26	0.00	30.02
95360	Analysis	.....	6.00	12.04	0.00	30.04
V-C Fertilizer 8-8-8						
93938	Guaranteed	.....	8.00	8.00	8.00	40.00
	Analysis	.....	7.38	8.96	8.04	39.14
93978	Analysis	.....	7.62	9.12	8.46	40.44
93987	Analysis	.....	7.31	8.31	8.22	38.46
94009	Analysis	.....	7.40	8.62	7.64	38.46
94010	Analysis	.....	7.52	8.52	8.04	39.12
94496	Analysis	.....	8.02	8.57	8.14	40.77
94712	Analysis	.....	8.02	8.18	8.35	40.59
V-C 20% Superphosphate						
93508	Guaranteed	.....	0.00	20.00	0.00	20.00
	Analysis	.....	0.00	20.86	0.00	20.86
93559	Analysis	.....	0.00	20.49	0.00	20.49
93652	Analysis	.....	0.00	21.29	0.00	21.29
93669	Analysis	.....	0.00	21.89	0.00	21.89
93736	Analysis	.....	0.00	20.10	0.00	20.10
93782	Analysis	.....	0.00	20.73	0.00	20.73
93863	Analysis	.....	0.00	20.49	0.00	20.49
93937	Analysis	.....	0.00	20.03	0.00	20.03
94467	Analysis	.....	0.00	21.36	0.00	21.36
94685	Analysis	.....	0.00	19.41	0.00	19.41
94695	Analysis	.....	0.00	20.26	0.00	20.26
94997	Analysis	.....	0.00	19.48	0.00	19.48
95088	Analysis	.....	0.00	20.20	0.00	20.20
95121	Analysis	.....	0.00	19.31	0.00	19.31
95163	Analysis	.....	0.00	20.49	0.00	20.49
Waldo Fertilizer Works, Waldo, Arkansas						
Victory 4-8-8 Fertilizer						
94612	Guaranteed	.....	4.00	8.00	8.00	28.00
	Analysis	.....	4.53	9.60	8.02	30.21
Victory 4-12-4 Fertilizer						
94012	Guaranteed	.....	4.00	12.00	4.00	28.00
	Analysis	.....	2.37	12.79	7.07	26.97
94916	Analysis	.....	4.89	10.99	4.72	30.38
95454	Analysis	.....	4.13	11.52	4.06	27.97
Victory 5-10-5 Fertilizer						
94013	Guaranteed	.....	5.00	10.00	5.00	30.00
	Analysis	.....	4.46	10.52	5.52	29.42
94412	Analysis	.....	4.68	10.00	5.56	29.60
94613	Analysis	.....	4.75	10.66	5.12	30.03
94914	Analysis	.....	4.07	11.52	5.13	28.86
94917	Analysis	.....	4.69	10.26	5.49	29.76
95428	Analysis	.....	5.02	10.05	5.03	30.14
95455	Analysis	.....	5.02	10.65	5.19	30.90
Victory Brand 8-8-8 Fertilizer						
93514	Guaranteed	.....	8.00	8.00	8.00	40.00
	Analysis	.....	7.12	8.93	8.34	38.63
94511	Analysis	.....	7.92	8.29	8.33	40.38
94614	Analysis	.....	7.77	7.36	8.62	39.29
94987	Analysis	.....	8.47	8.07	8.54	42.02

STATE OF TEXAS

1949

LAW CHANGING THE METHOD OF PAYMENT OF INSPECTION FEES

H. B. No. 574

AN ACT

AMENDING Article 97, Chapter 5, Title 4, Revised Civil Statutes of Texas, 1925, the Texas Fertilizer Laws, Article 1712, Chapter 12, Title 19, Revised Criminal Statutes of Texas, 1925, by (1) repealing the requirement that fertilizer inspection tax tags be attached to containers of commercial fertilizers sold, exposed or offered for sale in this State, and by (2) requiring the payment of an inspection fee on the basis of quarterly tonnage reports of commercial fertilizers sold or distributed for sale in this State; repealing all laws and parts of laws in conflict; providing a saving clause; and declaring an emergency.

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF TEXAS:

SECTION 1. Article 97, Chapter 5, Title 4, of the Texas Civil Statutes of 1925 is hereby amended to read as follows:

"ARTICLE 97. INSPECTION FEE. To defray the expenses connected with the inspection and analysis of commercial fertilizers sold, exposed or offered for sale in this State and experiments relative to the agricultural value thereof, all firms, corporations or persons engaged in the manufacture or sale of commercial fertilizers, herein termed the guarantors of commercial fertilizers, shall pay to the State Chemist at his office in College Station, Texas, an inspection fee of Twenty-five (25¢) per ton of two thousand (2,000) pounds of commercial fertilizers which have been registered in compliance with the requirements of Article 95 of this Chapter and sold or distributed for sale in this State. Such inspection fee shall be paid by the guarantor of such fertilizer, and no other person shall be required to pay any additional inspection fee. Payment of the inspection fee shall be made on the basis of and shall accompany tonnage reports submitted quarterly to the State Chemist by the guarantor of such fertilizers setting forth the tonnage and kind of each fertilizer sold or distributed for sale in this State. Before any commercial fertilizer may be registered in this State in compliance with the requirements of Article 95 of this Chapter, the guarantor shall file with the State Chemist an agreement to keep such records as are necessary to show accurately the tonnage and kind of each commercial fertilizer sold or distributed for sale, and shall grant the State Chemist or his authorized representative the right to examine such records to verify the statement of tonnages. The tonnage reports shall be made under oath on forms supplied by the State Chemist and considered by him adequate for providing the necessary tonnage and statistical information. Tonnage reports covering all fertilizer sold and distributed for sale in Texas during the preceding three (3) months and inspection fees for the tonnage so reported shall be due and payable on the first day of December, the first day of March, the first day of June, and the first day of September of each year. If the tonnage report is not filed and the payment of inspection fees is not made within twenty (20) days after the date due, a collection fee amounting to ten per cent (10%) of the amount due shall be assessed against the guarantor, and the amount of fees due shall constitute a debt and become the basis of a judgment against the guarantor. If the tonnage report is not filed and the payment of fees is not made within thirty (30) days after the date due, or if the report of tonnage be false, fifteen (15) days after due written notice and opportunity for hearing have been given, the State Chemist may cancel the registration of commercial fertilizers registered by the delinquent guarantor. Any information as to the amount of fertilizer sold and business practices of any guarantor obtained from tonnage reports or from inspection of records and books shall remain confidential and shall not be revealed by the State Chemist or his employees to the public, persons or other guarantors. Nothing in this Article shall interfere with fertilizers passing through this State in transit; nor shall it apply to the delivery of fertilizer materials in bulk to fertilizer factories for manufacturing purposes only. All fees received by the State Chemist shall be deposited with the Director of the Texas Agricultural Experiment Station and shall be expended under the direction of the Board of Directors of the Agricultural and Mechanical College of Texas for defraying the expenses of inspection and analysis of commercial fertilizers, for the preparation and publication of bulletins and reports required or authorized by Article 98 of this Chapter, for research experiments conducted by qualified personnel of the Texas Agricultural Experiment Station relative to the agricultural value of commercial fertilizers, and for such other related purposes as the Board of Directors of said College may allow or direct.

SEC. 2. Article 1712, Chapter 12, Title 19, of the Revised Criminal Statutes of 1925 is hereby amended to read as follows:

"ARTICLE 1712. INSPECTION FEES. All firms, corporations or persons engaged in the manufacture or sale of commercial fertilizers, hereinafter referred to as the guarantors of commercial fertilizers, shall pay an inspection fee of Twenty-five cents (25¢) per ton of two thousand (2,000) pounds of all commercial fertilizers which have been registered in compliance with the requirements of Article 1710 of this Chap-

ter and sold or distributed for sale in this State in order to entitle the same to inspection and delivery. Payment of the inspection fee shall be made to the State Chemist at his office in College Station, Texas, on the basis of and shall accompany tonnage reports submitted quarterly by the guarantors of such commercial fertilizers. These reports shall be made under oath on forms supplied by the State Chemist and shall set forth the amount and kind of each fertilizer sold or distributed for sale in Texas during the preceding three (3) months. Before any commercial fertilizer may be registered in this State in compliance with the requirements of Article 1710 of this Chapter, the guarantor shall file with the State Chemist an agreement to keep such records as are necessary to show accurately the tonnage and kind of each commercial fertilizer sold or distributed for sale, and shall grant the State Chemist or his authorized representative the right to examine such records to verify the statement of tonnages. Tonnage reports and inspection fees shall be due and payable on the first day of December, the first day of March, the first day of June, and the first day of September of each year. If the tonnage report is not filed and the payment of inspection fees is not made within twenty (20) days after the date due, a collection fee amounting to ten per cent (10%) of the amount due shall be assessed against the guarantor, and the amount of fees due shall constitute a debt and become the basis of a judgment against the guarantor. If the tonnage report is not filed and the payment of fees is not made within thirty (30) days after the date due, or if the report be false, fifteen (15) days after due written notice and opportunity for hearing have been given, the State Chemist may cancel the registration of commercial fertilizers registered by the delinquent guarantor. Any information as to the amount of fertilizer sold and business practices of any guarantor obtained from tonnage reports or from inspection of records and books shall remain confidential and shall not be revealed by the State Chemist or his employees to the public, persons or other guarantors. Nothing in this Article shall interfere with fertilizers passing through this State in transit; nor shall it apply to the delivery of fertilizer materials in bulk to fertilizer factories for manufacturing purposes only."

SEC. 3. All laws and parts of laws in conflict herewith are hereby repealed in so far as they are in conflict; and if any provision of this Act is declared unconstitutional or the applicability thereof to any person or circumstance is held invalid, the constitutionality of the remainder of this Act and applicability thereof to other persons or circumstances shall not be affected thereby.

SEC. 4. The fact that the guarantors of commercial fertilizers coming within the provisions of this Act are now required to affix a tax tag furnished by the State Chemist to each bag of fertilizer, and the further fact that these tags are both difficult to obtain and incurs an excess expense by the State Chemist, and their attachment to fertilizer containers incurs an excess expense by the guarantors of commercial fertilizers, and the further fact that the changes provided by this Act would improve, expedite, and lower the cost of enforcement of the fertilizer laws of Texas by the State Chemist and the manufacture and distribution of commercial fertilizers by guarantors, create an emergency and an imperative public necessity that the Constitutional Rule requiring all bills to be read on three separate days in each House be suspended and said Rule is hereby suspended, and this Act shall take effect and be in force from and after its passage, and it is so enacted.

/s/ KYLE VICK
President of the Senate
Pro Tempore

/s/ DURWOOD MANFORD
Speaker of the House

I hereby certify that H. B. No. 574 was passed by the House on April 12, 1949, by the following vote: Yeas 126, Nays 0.

/s/ CLARENCE JONES
Chief Clerk of the House

I hereby certify that H. B. 574 was passed by the Senate of April 28, 1949, by the following vote: Yeas 31, Nays 0.

/s/ GARLAND A. SMITH
Secretary of the Senate

APPROVED: May 13, 1949
/s/ BEAUFORD JESTER
Governor

Filed in the Office of the
SECRETARY OF STATE
this 15th day of May, 1949
At 10 O'clock and 50 Minutes

/s/ LOUIS SCOTT WILKERSON
Asst. Secretary of State