Analyses of *Commercial Fertilizers*Sold during 1954-55

September 1955

TEXAS AGRICULTURAL EXPERIMENT STATION

R. D. LEWIS, DIRECTOR, COLLEGE STATION, TEXAS

This is the 53rd annual report of the operation of the Texas fertilizer law, and covers the period from September 1, 1954 through August 31, 1955.

Fertilizers and fertilizer materials sold during the fertilizer year beginning July 1, 1954, amounted to 588,061 tons, which was a 5 percent increase over the tonnage sold during the preceding year. Grades of the 1-2-1 ratio accounted for 62 percent and the 1-1-1 ratio for 11 percent of the total of 306,410 tons of mixed goods sold. Nitrogenous materials accounted for 39 percent, superphosphates for 33 percent and ammoniated phosphates for 22 percent of the total of 281,651 tons of materials sold.

Analyses are given of 2,849 official samples of fertilizers. Valuations found on analyses are compared with the analyses guaranteed by the registrants. Rebates totaling \$2,221.28 were paid on 86 lots of fertilizer for which the valuation found was 4 percent or more below the valuation guaranteed.

CONTENTS

Dago

	Iuge
Digest	2
Introduction	
Some Requirements of the Texas Fertilizer Law	
Materials Covered by the Law	
Registration	
Labels	
Inspection Fees	
Bulk Sales	
Report of Sales	
Fertilizer Grades Approved for 1955-56	
The Texas Fertilizer Committee	
Brands and Trade-marks Registered	
Inspection Fees Collected During 1954-55	
Tonnage Sales of Different Grades of Fertilizers	
Trends in Consumption	
Valuation per Ton	
Composition and Selling Price of Different Grades of Fertilizers	
Average Cost of Nitrogen, Available Phosphoric Acid and Potash	
Relation of Valuation Guaranteed to Valuation Found	
How to Obtain Free Analysis of Fertilizers	11
Analyses of Fertilizers, 1954-55	
Publications Dealing with the Use of Fertilizers	11
Fertilizer Guarantors Registered in Texas, 1954-55	
Located in Texas	
Located Elsewhere	

Analyses of Commercial Fertilizers Sold during 1954-55

J. F. FUDGE, State Chemist

HIS IS the 53rd 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 Vernon's Revised Criminal Statutes, 1925, and in Chapter Five of Title Four of Vernon's Texas Civil Statutes, 1925. A summary of some important requirements of the law follows. For further requirements, penalties, definitions and other detailed information, reference should be made to the full text of the law, which will be furnished by the State Chemist upon request.

Materials Covered by the Law

All mixed fertilizers, 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, agricultural gypsum, unground bones, stockpen manure, barnyard manure and 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 a ton.

Registration

Before a fertilizer is offered for sale 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 application for registration must agree exactly with the wording on the printed bag or tag, and no change can be made in the wording on the bag or tag after it has been registered. 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 contents of the bag.

Name of fertilizer in full.

Name and address of manufacturer, manipulator or guarantor.

Guaranteed analysis (in 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 analysis of official samples of fertilizer, experiments relative to the value of fertilizers, and for certain other purposes, the law imposes an inspection fee of 25 cents per ton on all fertilizers sold or offered for sale in Texas. This fertilizer inspection fee must be paid on the basis of and accompany sworn quarterly statements of sales, due in the office of the State Chemist on the first day of September, December, March and June.

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 for resale or distribution.

Registered fertilizers may be sold in bulk by manufacturers 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 on all such sales. All authorizations to sell fertilizer in bulk expire August 31 of each year.

Report of Sales

The guarantor must mail a report of each sale or shipment of fertilizer within or into Texas to the State Chemist within 3 days after such sale or shipment. The report 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 use on their own land must be marked "bulk sale to consumer."

FERTILIZER GRADES APPROVED FOR 1955-56

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 water-soluble potash. Frequently fertilizers are referred to by these numbers, which form a short and accurate description of the fertilizer. The term grade also may 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.

Fertilizers also may be described by a numerical statement expressing the relation among the principal constituents in its simplest form, called a ratio. For example, a 5-10-5 fertilizer contains 1 part of nitrogen to 2 parts of available phosphoric acid and to 1 part of potash. Consequently, this fertilizer has a 1-2-1 ratio; other grades having this ratio include 6-12-6, 10-20-10 and 12-24-12.

The grades of mixed farm fertilizers sold in Texas have been limited in number for nearly 30 years. Limitation and standardization of grades reduce the cost of manufacturing and handling, thereby permitting the fertilizer to be sold to the consumer at a lower cost. They also assist the farmer to become familiar with the different grades of fertilizer, enable him to decide more readily on the proper grade to be used and enable agricultural specialists to make definite recom-The ratios and minimum grades mendations. of mixed farm fertilizers to be approved in Texas during a given year are decided by the Texas Fertilizer Committee after a public hearing at which manufacturers and others interested may present recommendations. This public hearing is 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.

Following the annual public hearing on grades held at Galveston July 15, 1955, the Texas Fertilizer Committee approved the following ratios and minimum grades for use in Texas during the year beginning September 1, 1955:

Ratio approved	Minimum grade	Ratio approved	Minimum grade
0-1-1	0-14-14	1-2-3	4-8-12
0-2-1	0-16-8	1-3-1	4-12-4
1-1-0	10-10-0	1-4-4	3-12-12
1-1-1	8-8-8	2-1-0	14-7-0
1-2-0	7-14-0	2-1-1	10-5-5
1-2-1	5-10-5	2-2-1	10-10-5
1-2-2	5-10-10	3-4-6	6-8-12

Grades of mixed goods of the same ratios as those above, but of higher guaranteed analyses also were approved. For example, a 12-24-12 would be approved as a higher analysis of the 1-2-1 ratio.

All materials were approved. A few grades. such as 4-16-0 (ammoniated superphosphate). 16-20-0, 11-48-0 and 13-39-0 (ammonium phosphates) were approved as materials.

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 U.S. 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 ratios and grades of mixed fertilizer to be approved for registration during the coming year. This committee is composed of the following:

- J. F. Fudge, State Chemist, Chairman J. E. Adams, Dean, School of Agriculture
- J. B. Page, Head, Department of Agronomy
- G. W. Adriance, Head, Department of Horticulture
- R. Brison, Professor of Horticulture
- J. E. Hutchison, Extension State Agricultural Leader
- O. J. Moss, Agricultural Conservation and Stabiliza-tion, U. S. Department of Agriculture **Donald R. Paterson, Assistant Horticulturist** Ben R. Spears, Extension Agronomist
- M. K. Thornton, Extension Agricultural Chemist

BRANDS AND TRADE-MARKS REGISTERED

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 1954-55:

	Ninge of the time
AA Quality	Flora-Phos
ACI-42	Floroganic
Acid-Gro	Folium
Aero	Ford
Aero-Phos	Fourleaf
Agco	FTE
Agri-Chem	Ful-O-Vim
Agri-Sul	Garden Gro
Alamo	G. & O.
All-Weather	Golden Nugget
Ammo-Phos	Goldenrod
Anchor	Gold Medal
A. N. L.	Goldthwaites
	Good Earth
Aquadry	Grace
Arcadian Arkansas Farmers	and the second
	Green Acres
Quality	Greenlawn Creen Thumb
Armour	Green Thumb
Arrow	Green Valley
Atlas	Gro-Best
Bactex	Gro-Crop
Belinitral	Gro-Green
Best	Gro-Plus
Best Bet	Gro-Rite
Big Boy	Groso
Bigcrop	Gro-stuf
Bigrow	Gro-Tex
Big Steer	Gulf
Blackland Booster	Heart
Black Magic	Heart of Texas
Blenn	Heller-Gro
Blumes	Hereford
Boyer	Hills
Brimm	Hi-Yield
BR 61	Hi-Vita
Bumpero	Hoffman's
C.C.I.I.	Hoseco
Cal-Nitro	Hou-Actinite
Calunite	Humusite
Cash	Hy-Gro
CF&I	Hyponex
Champion	International
Chatelier's	Interstate
Chik-a-lizer	Ivy
Chik-a-nure	K-W
Chief	La-Tex
Cinagro	Lawn Green
Coastal Bend	Loma
Code 944	Leeloam
Complesoil	Leon's
0 0	Life
Co-Op Cross Country	Line
Davco	Liqua-food
Davey De Postor	Liqua Vita
De-Pester	Liquidry Little Coni
Dixie Deuble Cincle	Little Geni
Double Circle	Loamium
Dow	Loma
Driconure	Lone Star
Dri-Flo	Longhorn
Dupont	MCC
Easy Going	Magnite
Ebony	Magnolia
Es Min-El	Magic Grow
Fertichem	Marco
Fertigro	Mathieson
Fertilaid	Math-Craft
Fertilene	Achiever
Fertil-Gro	Maverick
Ferti-Lome	Mid-West
Fidelity	Milorganite
Flo-Crop	Min-Coll
Flora-Gro	Min-Hu-Nite

Min-Sol Miracle-Gro Mission Montamsaltpeter Mr. N. Mulch Plus Mule Na-Churs Na-So-Co Navajo NCL Niagara Nichols Nitrolime Nitronex Nitro-Sul N.O.M. **Nu-Green** Nurish Nu-Z **Old Black Joe** Oleander **Orga-Min** Orgro Ortho-Gro Ovene Owl Pabak Page Pasturgro Pelleform Phillips 66 Plainsman Plantabbs Plant-Chem PM Port Pride of the Garden Rainbow Ra-Pid-Gro Ramshorn Rancho del Descenso **Red Stag Red Star Red Steer** Reliance **Reuter's Special** Ruhm's RX-15 Scott's Sequestrene Silver Tip Shur-Gro Sod-Gro Soil Booster Soil Nu Sou-Tex Soylaid SSS Star Start Rite Stauffer Sta-Green Stimu-Plant Sul-Po-Mag Sun-King Sunnyland Sunshine Swfgas Swfgro Swfphos

Take-Hold	Thorobred	Versen-ol	
T. C. C.	Tide Green	Vertagreen	
Tencor	Top Crop	Victory	
Terra Food	Top-O-Texas	Vigoro	
Terra Kem	Top of the World	Vito-Gro	
Terra Lite	Topper	Vitrea	
Terra-Sul	Umbaugh	Walker's	
Texas Green Acres	Uramite	Water Feed	
Texas Liquid	Uran	Weber-King	
Texas Longhorn	V-C	Wesco	
Texaphos	V-0	Wolf	
Tex-Hi	Versene	Wonder-Gro	

INSPECTION FEES COLLECTED DURING 1954-55

Fertilizer inspection fees equivalent to 603,828 tons of fertilizer were collected for fertilizer sold during the Texas fiscal year from September 1, 1954 through August 31, 1955. This

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

in the second se	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
1949-50		545,899
1950-51		598.274
1951-52		621,943
1952-53		558.808
1953-54		543,518
1954-55		603,828

tonnage is compared in Table 1 with tonnages on which fees were collected in previous periods.

All fees collected are used for the administration of the Texas fertilizer law and for research on various factors which influence the agricultural value of commercial fertilizers.

TONNAGE SALES OF DIFFERENT GRADES OF FERTILIZERS

The tonnage sales of different grades of mixed fertilizers and fertilizer materials from July 1 through December 31, 1954, from January 1 through June 30, 1955 and the total for the two 6-months' periods, 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 U.S. 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. These data were 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.

Sales of mixed goods this year were 9 percent higher than those of a year ago. Large decreases

	July 1 to	Jan. 1 to	- Total	tonnage	
Grade	Dec. 31, 1954	June 30, 1955	Actual	$\begin{array}{c} \text{Relative} \\ 1954 = 100 \end{array}$	
Mixed goods	98574	207836	306410	109	
5-10-5	42598	93544	136142	120	
10-20-10	12623	22763	35386	314	
8-8-8	3339	17012	20351	81	
10-20-0	6383	6689	13072	194	
3-12-12	9226	1660	10886	100	
4-12-4	1197	9590	10787	66	
5-10-10	1015	4518	5533	107	
6-12-6	1177	4045	5212	80	
12-12-12	610	2483	3093	106	
Other 1-2-1 grades Turf and	3990	10555	14545	79	
garden specialties	2319	9195	11514	116	
1-1-0 grades	2259	8116	10375	96	
Other 1-1-1 grades	1895	7923	9818	102	
0-2-1 grades	6671	1058	7729	37	
2-2-1 grades	724	2853	3577	83	
Other 1-4-4 grades	. 686	1637	2323	137	
Other 1-2-0 grades	477	714	1191	241	
Other 1-3-1 grades	516	507	1023	141	
Other grades	869	2974	3843	180	
Materials	114310	167341	281651	101	
Superphosphate 0-20-0	39113	21707	60820	81	
16-20-0	14473	33824	48297	104	
Ammonium sulfate	10429	30322	40751	100	
Ammonium nitrate	8260	24765	33025	99	
Superphosphate 0-30-0 up	17755	13182	30937	169	
Anhydrous ammonia	6643	20515	27158	107	
Other N-P materials	4411	7986	12397	331	
Unacidulated phosphates	6177	2369	8546	46	
Manures and composts	2378	4195	6573	118	
Nitrogen solutions	2450	1768	4218	170	
Urea	22	2864	2886	156	
Other nitrogen materials	1177	1543	2720	59	
Potash materials	472	591	1063	82	
Other products	550	1708	2258	110	
Total fertilizers	212884				
rotar rertmizers	212884	375177	588061	105	

Table 2. Tonnages of principal mixed goods and materials sold, July 1, 1954-June 30, 1955, as reported currently by guarantors

in sales of the 0-1-1, 0-2-1 and 1-3-1 ratios continued. Highly significant increases occurred in sales of the 1-2-0 and 2-2-1 ratios and in grades of other ratios of high analysis. Sales of materials were practically the same as in 1953-54. Sales of normal superphosphate (0-20-0) continued to decline, being only a little over one-third as great as they were in 1949-50; they accounted for only 21 percent of the tonnage of materials sold this year, as compared with 76 percent of the tonnage of materials sold during 1951-52. Highly significant increases occurred in sales of concentrated superphosphates and ammoniated phosphates.

The tonnages of the primary fertilizer components sold during the year, calculated from the

Table 3. Primary fertilizer components sold, July 1, 1954-June 30, 1955, as reported currently by guarantors and calculated from guaranteed analyses

Primary	July 1 to	Jan. 1 to	Entire year	
components	Dec. 31, 1954	June 30, 1955	Actual	$\begin{array}{c} \text{Relative} \\ 1954 = 100 \end{array}$
Nitrogen, tons	10 10 10 10 PC			Million III and
In mixed goods	6,259	15,247	21,506	121
In materials	14,387	39,395	53,782	106
Total	20,646	54,642	75,288	110
Available phosphoric ac	id. tons			
In mixed goods	13,195	26,124	39,319	111
In materials	15.539	19,761	35,300	105
Total	28,734	45,885	74,619	108
Potash, tons				
In mixed goods	6,687	13.417	20,104	109
In materials	280	337	617	81
Total	6,967	13,754	20,721	108
Average over-all compos	sition. percent ¹			
Nitrogen Available	10.13	14.90	13.19	102
phosphoric acid	16.26	12.51	13.08	101
Potash	2.87	3.75	3.63	101
Total	29.26	31.16	29,90	102

¹Excluding unacidulated phosphates, manures and composts and "other products."

current reports of guarantors and the guaranteed analyses, are shown in Table 3. Sales in the fall accounted for 27 percent of the nitrogen, 39 percent of the available phosphoric acid and 34 percent of the potash used during the entire year. Stated in another way, sales of nitrogen were three times as great in the spring as in the fall, while sales of available phosphoric acid and potash in the spring were about twice as great as in the fall. Mixed goods supplied 28 percent of the nitrogen, 53 percent of the available phosphoric acid and 97 percent of the potash. The average overall composition showed very little change from 1953-54.

Geographic regions of Texas (Figure 1) differed widely in the amount of primary components used. The tonnages used in the different regions during 1954-55 are shown graphically in Figure 2 and compared with the tonnages used 1 and 5 years ago. Nitrogen consumption increased markedly in all regions and particularly in West Texas, which is now using about the same quantity of nitrogen as is used in the East Texas and and the Gulf Coast regions. East Texas and the Gulf Coast used by far the largest tonnage of available phosphoric acid, but consumption in all regions has decreased from the levels attained in previous years. As usual, about half of the potash used in the State was used in East Texas.

The monthly distribution of the sales of the primary components (Figure 3) emphasizes the fact that too large a proportion of the year's total sales are made during just a few months. Nearly two-thirds of the total nitrogen and potash and half of the available phosphoric acid used during the year are sold during the 4 months from February through May. The manufacture of commercial fertilizers requires a large investment in equipment and labor. Restricted seasonal use of this equipment and labor is economically unsound. Improvement in time distribution of sales would make possible the manufacture of a much larger tonnage of fertilizer without additional expenditure for equipment or labor, which in turn would result in a lower cost per ton of fertilizer to the farmer.

TRENDS IN CONSUMPTION

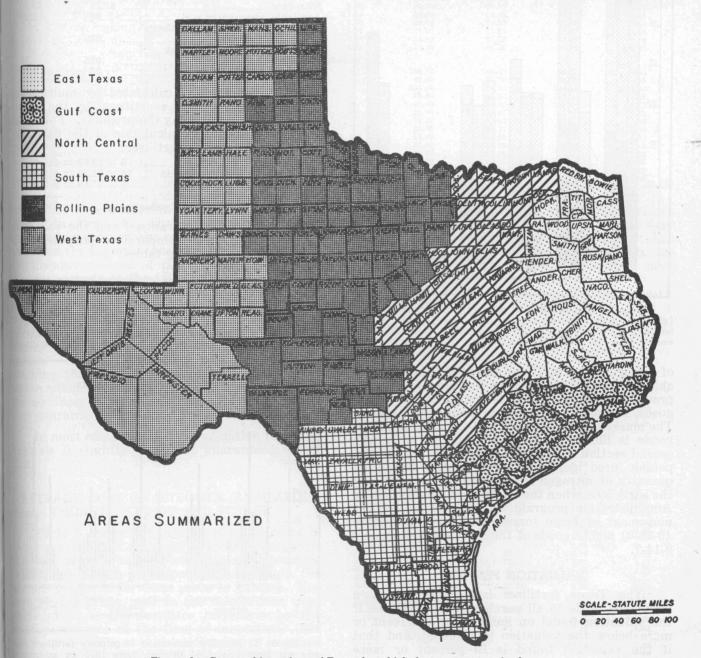
In general, Table 2 emphasizes a continuance and acceleration of two trends which have been evident in Texas fertilizer statistics for several years. One is toward the use of fertilizer containing higher concentrations of plant food. The other is toward a reduction of the ratio between the tonnages of nitrogen and of phosphoric acid used in the State.

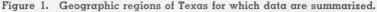
These trends are illustrated graphically in Figure 4, in which the data for 1945-46 are given a relative value of 100. During this 10-year period, the tonnage of all fertilizers has doubled, that of mixed goods has increased by two-thirds and that of materials was two and one-half times as great in 1954-55 as it was in 1945-46. While the tonnage of fertilizers doubled during the 10

years, the tonnage of primary components (nitrogen, available phosphoric acid and potash) nearly tripled. Not only has the concentration of primary components greatly increased, but the relation between nitrogen and phosphoric acid has changed greatly. During the early part of the period, the tonnage of available phosphoric acid in materials increased very rapidly, while the tonnage of nitrogen was practically static. During the latter part of the period, the tonnage of available phosphoric acid decreased significantly, while the tonnage of nitrogen increased rapidly and consistently from 1951 onward (Figure 5). This was the first year in which anhydrous ammonia was important as a nitrogen material in Texas. During 1954-55, urea and

ammonium phosphates from several sources have come onto the Texas market (Table 2) and the use of nitrogen solutions has increased significantly. In 1945-46, 46 percent of approximately 18,000 tons of nitrogen used came from mixed goods, while, in 1954-55, mixed goods provided only 28 percent of the total of over 75,000 tons of nitrogen used. Mixed goods provided 55 percent of the approximately 37,000 tons of available phosphoric acid used in 1945-46, 38 percent of the 86,000 tons used in 1950-51 and 53 percent of slightly less than 75,000 tons used in 1954-55.

The ratio of the tonnages of nitrogen to available phosphoric acid was 1 to 4.40 in 1945-46, 1 to 6.10 in 1950-51 and 1 to 0.99 in 1954-55. In 1954-55, for the first time, the calculated tonnage





7

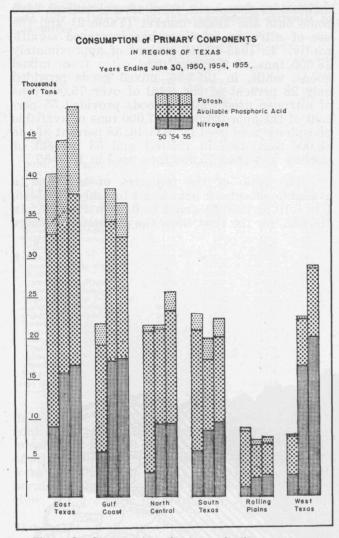


Figure 2. Consumption of primary fertilizer components (nitrogen, available phosphoric acid and potash) in different geographic regions of Texas during fertilizer years ending June 30, 1950, 1954 and 1955.

of nitrogen used in Texas exceeded that of available phosphoric acid. The tonnage of potash, practically all of which is marketed in mixed goods, has nearly tripled over the 10-year period. The marked dominance of the 1-2-1 ratio in mixed goods is illustrated by the curves given in the second section of Figure 5; the quantity of total potash used departed significantly from the quantity of nitrogen in mixed goods only during the early 50's, when the Production and Marketing Administration program was responsible for the movement of large tonnages of superphosphate (0-20-0) and of goods of the 0-2-1 ratio, primarily 0-14-7.

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 guaranteed, the fertilizer shall be considered as being adulterated. A calculation of the valuation guaranteed and of the valuation found by analysis must, therefore, be made. The valuation also sums up the valuation of the three primary components (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 total valuation requires a specific valuation 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 1954-55:

	Prices per pound	Prices per unit
Nitrogen	\$.15	\$3.00
Available phosphoric acid		1.20
Total phosphoric acid in tankage and bone meal	e 	.70
Total phosphoric acid in rock	0.95	50
phosphate Soluble potash		.50 .60

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

Nitrogen Available phosphoric acid Soluble potash	10	X	\$3.00 \$1.20 \$.60	= \$1	2.00
Guaranteed valuat	tion			\$3	0.00

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 valuation guaranteed, the valuation found by analysis and the average retail selling price per ton of various

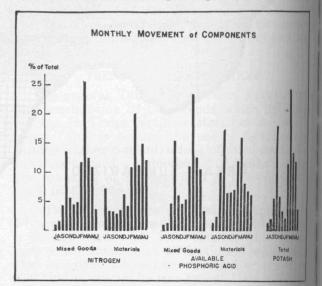


Figure 3. Monthly movement of primary fertilizer components from July 1954 through June 1955 as percent of total moved during the year.

8

Table 4. Average composition, valuations and selling prices of various grades of fertilizers, 1954-55

Grade	Number averaged	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation guaranteed, \$ per ton	Valuation found, \$ per ton	Selling price, \$ per ton	Ratio S.P. :V.G
			М	ixed Goods	ल्ला, अपस्त्रमध्	$B_{2}^{\mathrm{reg}}(t) = \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^$		
15-30-0	8	15.08	31.51	0	81.00	83.05	108.63	1.31
3-13-13	59	13.39	13.45	13.79	62.40	64.58	86.97	1.35
5-15-0	91	14.24	16.64	0	63.00	62.69	85.02	1.36
4-14-0	4	14.00	13.81	Õ	58.80	58,57	80.75	1.38
2-24-12	106	12.17	24.65	12.57	72.00	73.64	102.71	1.39
0-30-10	9	10.60	31.18	11.51	72.00	76.12	107.00	1.40
0-20-0	140	10.07	20.42	0	54.00	54.71	77.65	1.40
-20-10	423	9.77	20.52	10.19	60.00	60.05	85.10	1.42
-12-12	41	11.43	12.87	11.75	57.60	56.78	81.69	1.42
-10-10	32	9.67	11.55	9.86	48.00	48.79		
24-24	14	6.68	25.18	24.09	48.00	48.19	70.18	1.44
20-20					61.20	64.71	93.00	1.44
	6 36	5.43	20.24	21.17	51.00	53.28	76.96	1.44
10-10	30	5.27	10.51	10.23	33.00	34.56	49.74	1.44
-14-7	21	6.86	14.27	7.35	42.00	42.11	61.55	1.46
)-20-20	5	10.04	20.04	20.37	66.00	66.39	97.71	1.47
12-6	46	6.15	12.22	6.28	36.00	36.88	53.97	1.47
18-9	5	9.20	18.35	8.78	54.00	54.89	81.40	1.48
8-8	272	7.76	8.64	8.02	38.40	38.46	57.17	1.49
12-12	46	3.26	12.26	11.90	30.60	31.64	47.51	1.50
12-4	74	4.31	11.97	4.63	28.80	30.07	45.07	1.50
-10-0	9	10.16	10.00	0	42.00	42.48	64.80	1.53
10-5	704	5.10	10.42	5.30	30.00	30.98	47.29	1.53
8-12	14	6.07	8.82	11.14	34.80	35.48	56.18	1.58
16-8	21	0	16.31	8.30	24.00	24.55	41.40	1.69
14-7	9	0	13.91	7.67	21.00	21.29	37.03	1.74
12-4	3	6.14	12.40	4.15	34.80	35.79	64.33	1.80
10-4	14	6.00	10.36	4.61	32.40	33.20	66.93	2.02
		0.00		Materials	02.10	55.20	00.95	2.02
nmonium nitrate	27	33.56	0	0	100.50	100.68	05 50	
mmonium sulfate	19	20.95	0	0	100.50		85.78	0.85
		45.13	0	0	62.60	62.85	61.98	0.99
rea -39-0	4 46	40.10			135.00	135.39	141.25	1.04
		13.28	39.98	0	85.80	87.82 93.02	108.50	1.23
-48-0	8	11.65	48.38	0	90.60	93.02	118.00	1.27
perphosphate 35%	5	0	35.97	0	42.00	43.16	55.80	1.29
-20-0	234	16.00	20.69	0	72.00	72.83	94.36	1.30
perphosphate 50%	21	0	50.09	0	60.00	60.11	82.76	1.38
perphosphate 45%	83	0	45.79	0	54.00	54.95	76.60	1.39
perphosphate 48%	4	0	48.50	0	57.60	58.20	83.35	1.43
perphosphate 20%	85	0	20.74	0	24.00	24.89	35.98	1.45
perphosphate 46%	12	0	46.47	0	55.20	55.77	80.93	1.45
32-0	7	7.71	30.52	0	62.40	59.75	87.82	1.47
merphosphate 30%	5	0	29.50	0	36.00	35.40	53.71	1.52

grades of mixed fertilizers and materials are shown in Table 4. The different grades are arranged in order of the ratio between the selling price and the valuation guaranteed. Consequently, the cheaper sources of plant nutrients occur in the upper parts of the two sections of the table. The average retail selling price is the average of the cash retail prices furnished to the fertilizer inspectors by the dealers. The prices of the same fertilizer may vary among towns on account of differences in cost of transportation or 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 valuation guaranteed and found are calculated.

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

AVERAGE COST OF NITROGEN, AVAILABLE PHOSPHORIC ACID AND POTASH

Table 5 shows the calculated retail costs in cents per pound of nitrogen, available phosphoric acid and potash, as calculated from the average selling price and valuation guaranteed of the various grades of fertilizer given in Table 4. 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 near

Table 5.	Appro	xima	ate aver	age cos	t of nitrogen,	available
phosphoric	e acid	and	potash	during	1954-55	

Grade	Nitrogen	Available phosphoric acid	Potash
김 선물을 잘 물어 가격한 것이다.	10.00 <u>22-3</u>	Cents per pound	<u> </u>
Ammonium nitrate	12.75		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Ammonium sulfate	14.85		in the second second
Urea	15.60		Carl - and -
13-39-0	18.45	7.38	1
1-48-0	19.05	7.62	· · · · · · · · · · · · · · · · · · ·
Superphosphate 0-35-0	The Present in the	7.74	in the second
6-20-0	19.50	7.80	
5-30-0	19.65	7.86	11 21 113
13-13-13	20.25	8.10	4.05
5-15-0	20.40	8.16	4.00
4-14-0	20.70	8.28	A. 1. 191
Superphosphate 0-50-0	and the second s	8.28	
Superphosphate 0-45-0	- AND	8.34	
12-24-12	20.85	8.34	4.17
0-20-0	21.30	8.52	1.11
10-20-10	21.30	8.52	4.26
Superphosphate 0-48-0	the figure and the state of the	8.58	4.20
12-12-12	21.60	8.64	4.32
10-10-10	21.60	8.64	4.32
5-24-24	21.60	8.64	4.32
5-20-20	21.60	8.64	4.32
5-10-10	21.60	8.64	4.32
Superphosphate 0-46-0		8.70	4.04
Superphosphate 0-20-0	(74. 11.) <u>(34.0)</u> (1.)	8.70	101012-0019
-14-7	21.90	8.76	4.38
0-20-20	22.05	8.82	4.41
5-12-6	22.05	8.82	4.41
3-32-0	22.05	8.82	4.41
-18-9	22.20	8.88	4.44
8-8-8	22.35	8.94	4.47
Superphosphate 0-30-0		9.12	1.11
10-10-0	22.95	9.18	1 22
-10-5	22.95	9.18	4.59
-8-12	23.70	9.48	4.74
-16-8		10.14	5.07
-14-7	State of the state of the	10.44	5.22
3-12-4	27.00	10.44	5.40
5-10-4	30.30	12.12	6.06

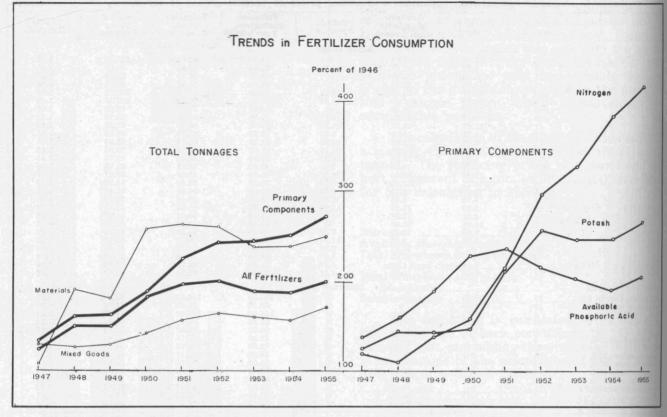


Figure 4. Relative consumption of total components and of fertilizers over the past 10 years (1945-46 = 100).

the factories might average lower in price than those used some distance away because the lower transportation costs. The fertilizers with the lowest cost per unit of plant food to the farmer are given first in the table.

In general, plant food in fertilizers of high analyses costs less than that in lower analyses of the same ratio. The difference may be illustrated by a comparison of costs for the 1-2-1 ratio (5-10-5 vs 10-20-10) and 1-1-1 ratio (8-8-8 vs 12-12-12). A large part of the higher grades were pelleted, making a better product, which allowed better distribution and utilization. This also is true with materials.

RELATION OF VALUATION GUARANTEED TO VALUATION FOUND

A comparison of the average valuation guaranteed by fertilizer manufacturers doing business in Texas 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.

Rebates found due must be paid to the purchasers of the deficient fertilizers if they can be located. If all purchasers cannot be located by the dealers' records, the rebates must be paid to some recognized local agricultural, religious or charitable organization. The number of lots on which such rebates were paid by each guarantor is shown in Table 6. A total of 86 samples

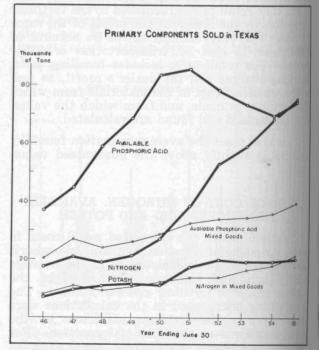


Figure 5. Consumption of primary fertilizer components in Texas during the past 10 years. Table 6. Average valuations guaranteed and found in samples of fertilizers guaranteed by different companies

Company	Valuation guaranteed		Number averaged	Rebates
Agricultural Chemicals Inc.	44.03	44.41	13	1
rmour Fertilizer Works, Dallas	40.51	40.17	174	3
mour Fertilizer Works, Houston		45.10	327	1
est Fertilizer Co.	63.00	63.02	9	õ
ampbell Fertilizer Works	38.80	41.49	24	1 I
entral Texas Fertilizer Co.	43.61	44.36	41	Ô
olorado Fuel & Iron Corp.	61.50	62.08	3	Ő
ommercial Solvents Corp.	100.50	101.60	4	0
avison Chemical Corp.	29.40	29.46	4	0
ixie Fertilizer Co.	34.98	36.14	26	0
			20 90	0
ast Texas Products Co.	39.57	40.06		
armers Fertilizer Co.	39.19	40.29	63	0
idelity Chemical Corp.	36.42	36.66	28	0
ilmer Cotton Oil & Fertilizer Co.	37.14	37.62	29	6
rand River Chemical Co.	135.00	135.51	3	0
ulf Chemical Co. Ii-Yield Plant Food Company,	72.00	75.37	2	0
Mt. Pleasant	33.93	33.29	45	8
i-Yield Fertilizer Co., Bonham International Minerals & Chemical	42.32	42.00	75	8
Corp., Ft. Worth ternational Minerals & Chemical	48.17	47.74	251	30
Corp., Texarkana	41.54	42.25	106	0
acksonville Fertilizer Co.	34.32	34.39	30	1
elly, Weber & Co., Inc.	34.25	34.59	11	0
ion Oil Co.			7	0
	100.50	101.10		
arshall Cotton Oil Co.	31.43	32.02	13	0
athieson Chemical Corp.	67.97	69.78	567	1
hillips Chemical Co.	91.00	91.93	18	0
ittsburg Fertilizer Co.	36.93	37.70	11	0
ed Star Fertilizer Co.	43.59	44.78	92	9
hreveport Fertilizer Works	36.43	37.19	84	2
mith Douglass Company	74.65	76.16	12	0
wift & Company Plant Food Div.,		31.83	3	0
Houston wift & Company Plant Food Div.,	46.28	46.73	166	8
Shreveport	40.59	41.26	175	3
exas City Chemicals, Inc.	42.00	43.16	5	0
exas Farm Products Co.	33.38	43.10 34.08	65	0
yler Fertilizer Co.	36.74	38.78	21	2
irginia Carolina Chemical Corp.	42.49	43.74	180	2
Valdo Fertilizer Works	44.67	44.79	11	0

was more than 4 percent below the guaranteed valuation. Most of these were of high analysis grades. Further work is needed on the technology of manufacturing these grades. Rebates amounting to \$2,221.28 were made to the purchasers.

HOW TO OBTAIN FREE ANALYSIS OF FERTILIZERS

Purchasers of commercial fertilizers for their wn use on their own land (but not for sale) may btain a free analysis of a sample, provided they take it in accordance with the requirements of the Texas fertilizer law. This privilege of a free malysis applies only to fertilizers sold under the fertilizer law and to samples taken properly so that they represent the goods sampled. The moper sampling of a fertilizer must be done carefully, and the law requires that it be taken in a certain way to insure a true sample. Those who desire the free analysis of a sample of commercial fertilizer should write to the State Chemist, College Station, Texas, 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.

ANALYSES OF FERTILIZERS, 1954-55

A total of 2,849 official samples of fertilizers and fertilizer materials was collected during 1954-55 by fertilizer inspectors, who collected samples in practically every town and city in the State where fertilizer was being sold. They visited the principal points of distribution several times during the year. In every case, they collected official samples of all products being sold in the towns visited. These samples were analyzed by official methods of the Association of Official Agricultural Chemists of North America, as is required by Article 98 of the Texas Civil Statutes. The analyses of these samples are given in detail in Table 7.

PUBLICATIONS DEALING WITH THE USE OF FERTILIZERS

During the year, two reports showing the tonnages of different fertilizers sold in each county in the State were published. Fall sales are shown in Progress Report 1754 and spring sales in Progress Report 1806. Tonnage data for 1947-53 were summarized by regions in Bulletin 779. Other publications dealing with the value and use of commercial fertilizers are issued frequently by the Texas Agricultural Experiment Station and the Texas Agricultural Extension Service. Check lists of these publications will be sent free upon request to the Agricultural Information Office, College Station, Texas. To prevent needless waste, and to insure the best distribution possible of these publications, requestors are urged to limit their requests to publications they have reason to believe will be useful immediately, and which they will take the time to study.

Manufacturer, place of business and brand	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found per ton, dollars	Manufacturer, place of business and brand	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found per
	T	2.1.3.4	1211 = 1					1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-			S. S. Sector
welf Brand Fertilizer 8-8-8	erson, 16	exas				Wolf Brand Fertilizer 5-10-5 Guara	nteed	5.00	10.00	5.00	30.00
Wolf Brand Fertilizer 8-8-8 Guara		exas 8.00	8.00	8.00	38.40	Wolf Brand Fertilizer 5-10-5 Guara	inteed 366	5.00 4.80	$10.00 \\ 10.60$	5.00	
Wolf Brand Fertilizer 8-8-8		8.00 9.01	7.15	11.05	42.24			$5.00 \\ 4.80 \\ 5.14$	$10.00 \\ 10.60 \\ 10.90$	$5.00 \\ 7.89 \\ 6.15$	31.8
Wolf Brand Fertilizer 8-8-8	nteed 368 1212	8.00 9.01 7.35	$7.15 \\ 7.15$	$11.05 \\ 11.05$	42.24 42.24		366 1198 1211	$4.80 \\ 5.14 \\ 5.00$	$10.60 \\ 10.90 \\ 10.90$	$7.89 \\ 6.15 \\ 5.00$	31.85 32.19 31.08
Wolf Brand Fertilizer 8-8-8	nteed 368	8.00 9.01	7.15	11.05	42.24		$366 \\ 1198 \\ 1211 \\ 2315$	$\begin{array}{r} 4.80 \\ 5.14 \\ 5.00 \\ 4.86 \end{array}$	$10.60 \\ 10.90 \\ 10.90 \\ 12.00$	$7.89 \\ 6.15 \\ 5.00 \\ 5.14$	31.85 32.19 31.08 32.06
Wolf Brand Fertilizer 8-8-8	nteed 368 1212	8.00 9.01 7.35	$7.15 \\ 7.15$	$11.05 \\ 11.05$	42.24 42.24		366 1198 1211	$4.80 \\ 5.14 \\ 5.00$	$10.60 \\ 10.90 \\ 10.90$	$7.89 \\ 6.15 \\ 5.00$	31.85 32.19 31.08 32.06
Wolf Brand Fertilizer 8-8-8	nteed 368 1212	8.00 9.01 7.35	$7.15 \\ 7.15$	$11.05 \\ 11.05$	42.24 42.24 27.13		$366 \\ 1198 \\ 1211 \\ 2315$	$\begin{array}{r} 4.80 \\ 5.14 \\ 5.00 \\ 4.86 \end{array}$	$10.60 \\ 10.90 \\ 10.90 \\ 12.00$	$7.89 \\ 6.15 \\ 5.00 \\ 5.14$	31.85 32.19 31.08 32.06
Wolf Brand Fertilizer 8-8-8 Guara	nteed 368 1212 2725 nteed	8.00 9.01 7.35 3.92	7.15 7.15 8.63 12.00	11.05 11.05 8.36	42.24 42.24 27.13 57.60	Guara	366 1198 1211 2315 2678	4.80 5.14 5.00 4.86 6.02	10.60 10.90 10.90 12.00 10.80	7.89 6.15 5.00 5.14 6.21	31.85 32.19 31.08 32.06 34.75 60.00
Wolf Brand Fertilizer 8-8-8 Guara Wolf Brand Fertilizer 12-12-12	nteed 368 1212 2725 nteed 1896	8.00 9.01 7.35 3.92	7.15 7.15 8.63	$ \begin{array}{r} 11.05 \\ 11.05 \\ 8.36 \end{array} $	42.24 42.24 27.13	Guara Wolf Brand Fertilizer 10-20-10	366 1198 1211 2315 2678	$\begin{array}{c} 4.80 \\ 5.14 \\ 5.00 \\ 4.86 \\ 6.02 \end{array}$	$10.60 \\ 10.90 \\ 10.90 \\ 12.00 \\ 10.80$	7.896.155.005.146.21	30.00 31.85 32.19 31.08 32.06 34.75 60.00 58.72 60.60

Manufacturer, place of business and brand	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	P'otash, percent	Valuation found per ton, dollars	Manufacturer, place of business and brand	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	P'otash, percent	
Wolf Brand Fertilizer 16-20-0 Guara	anteed 2283	16.00 16.02	20.00 19.25	0.00	72.00 71.16	Armour's Big Crop 20% Superpho Guaran		0.00	20.00 19.56	0.00	
Agri-Chem of Texas, San Antonio Agri-Chem 16-32-16 Fertilizer Guara	, Texas anteed 178 231	$16.00 \\ 16.56 \\ 15.11$	$32.00 \\ 34.00 \\ 32.50$	$16.00 \\ 16.74 \\ 18.40$	96.00 100.52 95.37		230 613 621 1027 1543 1566	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\end{array}$	$\begin{array}{c} 19.59 \\ 20.00 \\ 20.05 \\ 20.00 \\ 21.00 \\ 21.75 \end{array}$	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\end{array}$	0 0 0 0
Agri-Chem 22-22-11 Fertilizer Guara	nteed 862	$22.00 \\ 18.74$	$22.00 \\ 25.87$	$\begin{array}{c} 11.00\\ 13.44 \end{array}$	99.00 95.33	Armour's Old Black Joe 5-10-5 F Guaran		0.00 er 5.00	20.50 10.00	0.00	
Agri-Chem 20-52-0 Fertilizer Guara	inteed 177	20.00 20.60	52.00 53.30	0.00	122.40 125.76		286 357 534 562	5.02 4.63 4.63 4.60	$ \begin{array}{r} 10.40 \\ 10.40 \\ 10.00 \\ 10.70 \end{array} $	$\begin{array}{r} 4.44 \\ 5.10 \\ 5.17 \\ 5.10 \end{array}$	l) 1
merican Agricultural Chemical C AA Quality Phosphate Rock Gro Guara	und Flo			0.00	128.42 15.00 15.90		608 619 626 668 9.61	$\begin{array}{r} 4.61 \\ 4.47 \\ 4.52 \\ 4.50 \\ 4.74 \end{array}$	$10.30 \\ 10.58 \\ 10.31 \\ 10.96 \\ 10.60$	5.14 5.08 5.13 4.79 5.58	
rk-La Cotton Oil Co., Magnolia, Magnolia Brand Plant Food 5-1 Guara	0-5	5.00 5.64	$\begin{array}{c} 10.00\\ 10.30\end{array}$	$5.00 \\ 4.79$	$30.00 \\ 32.15$		1020 1033 1051 1061 1072 1184	$\begin{array}{r} 4.66 \\ 4.92 \\ 4.73 \\ 5.00 \\ 4.88 \\ 4.62 \end{array}$	$ \begin{array}{r} 10.00 \\ 10.37 \\ 10.10 \\ 10.30 \\ 10.00 \\ 10.10 \\ \end{array} $	5.12 5.29 5.08 4.67 4.72 4.84	
rmour's Fertilizer Works, Dallas Armour's Big Crop 0-14-7 Fertil Guara	izer	0.00 0.00	14.00 14.07	7.00 6.68	* 21.00 20.89		1191 1257 1268 1274 1281	$5.00 \\ 5.00 \\ 5.00 \\ 4.86 \\ 4.60$	$ 10.10 \\ 9.78 \\ 10.00 \\ 10.20 \\ 10.80 $	4.78 5.07 5.02 5.08 4.83	
Armour's Big Crop 0-16-8 Fertil Guara		$\begin{array}{c} 0.00\\ 0.00\end{array}$	$\begin{array}{c} 16.00\\ 16.00\end{array}$	8.00 8.79	24.00 24.47		1392 1407 1531 1537	$\begin{array}{r} 4.79 \\ 4.84 \\ 5.30 \\ 5.04 \end{array}$	$ \begin{array}{r} 10.00 \\ 9.77 \\ 9.21 \\ 9.70 \end{array} $	5.00 4.88 4.85 5.00	
Armour's Big Crop 15-15-0 Fert Guara		$15.00 \\ 14.08 \\ 14.39$	$15.00 \\ 16.25 \\ 16.00$	$0.00 \\ 0.00 \\ 0.00$	$63.00 \\ 61.74 \\ 62.37$	ให้เสมได้ระบบระประสภาย 3 การสร้างการประกัด 10 ตั้งการสร้าง	1621 1872 1951 2042 2101	$5.00 \\ 5.02 \\ 5.12 \\ 5.04 \\ 5.08$	$10.60 \\ 10.40 \\ 10.10 \\ 10.00 \\ 10.00$	$\begin{array}{r} 4.72 \\ 4.72 \\ 5.00 \\ 5.32 \\ 5.18 \end{array}$	
Armour's Big Crop 8-8-8 Fertili Guara		$\begin{array}{c} 8.00\\ 7.66\\ 7.42\\ 7.50\\ 7.40\\ 7.22\\ 7.74\\ 8.02 \end{array}$	8.00 8.20 8.66 8.10 8.30 8.30 8.70 8.60	8.00 7.71 7.84 8.00 7.85 8.31 8.00 8.01	38.40 37.45 37.36 37.02 36.87 36.61 38.46 39.19		2123 2174 2190 2237 2329 2428 2458 2458 2469 2481 2523 2647	$5.00 \\ 5.20 \\ 4.75 \\ 5.00 \\ 5.03 \\ 5.00 \\ 4.70 \\ 5.00 \\ 5.03 \\ 4.82 \\ 4.84$	$10.00 \\ 10.04 \\ 10.30 \\ 10.20 \\ 10.30 \\ 10.30 \\ 10.86 \\ 10.00 \\ 10.30 \\ 10.70 \\ 10.70 \\ 10.5$	$\begin{array}{c} 6.12 \\ 5.16 \\ 4.77 \\ 5.00 \\ 5.03 \\ 5.08 \\ 5.00 \\ 5.02 \\ 4.83 \\ 5.00 \\ 5.00 \\ 5.02 \end{array}$	0 00 00 00 00 00 00 00 00 00
Armour's Big Crop 5-10-5 Ferti Guara		$5.00 \\ 4.69 \\ 4.71 \\ 5.02$	$10.00 \\ 10.20 \\ 10.30 \\ 10.40$	$5.00 \\ 5.40 \\ 5.07 \\ 5.11$	30.00 29.55 29.53 30.61	2 2 2 2 2 2 2 2	2663 2742 2766 2774 2782 2789	$\begin{array}{r} 4.84 \\ 5.00 \\ 5.02 \\ 4.66 \\ 5.24 \\ 5.00 \\ 5.14 \end{array}$	$10.50 \\ 10.30 \\ 10.30 \\ 10.80 \\ 10.80 \\ 11.30 \\ 10.40$	5.06 5.00 5.07 5.00 5.00 5.00 5.24	31 30 30 29 31 31 31
Armour's Big Crop 6-12-6 Ferti Guara	nteed 1050 1587	$6.00 \\ 5.82 \\ 6.00$	$12.00 \\ 13.20 \\ 13.00$	$6.00 \\ 5.86 \\ 6.31$	$36.00 \\ 36.82 \\ 37.39$	2 2 2 2 2	2793 2806 2810 2817 2820	5.02 5.00 4.80 4.64 4.80	$10.82 \\ 10.60 \\ 10.64 \\ 10.70 \\ 10.50$	5.01 5.01 5.35 5.01 5.02	31 30 30 29 30
Armour's Big Crop 10-20-10 Fer Guara	tilizer nteed 620 624 627 1070 1282 1286	$10.00 \\ 9.26 \\ 9.24 \\ 9.34 \\ 9.17 \\ 9.56 \\ 9.33$	$\begin{array}{c} 20.00\\ 21.85\\ 20.00\\ 20.00\\ 21.25\\ 21.25\\ 20.00\\ \end{array}$	$10.00 \\ 10.16 \\ 10.22 \\ 10.40 \\ 9.72 \\ 10.04 \\ 10.20$	$\begin{array}{c} 60.00\\ 60.10\\ 57.85\\ 58.26\\ 58.84\\ 60.20\\ 58.11 \end{array}$	2 Armour's Vertagreen Plant Food Guarant 1 2		5.00 5.02 5.00 4.72 5.00 5.00	$11.26 \\ 10.90 \\ 10.00 \\ 10.90 \\ 10.96 \\ 10.70 \\ 10.7$	5.00 5.04 5.00 5.00 4.70 5.00	31 31 30 30. 30. -60.
Armour's Big Crop 5-10-10 Fert Guara		$5.00 \\ 5.03 \\ 4.78$	10.00 10.60 10.10	$10.00 \\ 10.06 \\ 10.02$	$33.00 \\ 33.85 \\ 32.47$	1	teed 154 269	$15.00 \\ 13.81 \\ 13.71$	$15.00 \\ 15.90 \\ 17.00$	$0.00 \\ 0.00 \\ 0.00 \\ 0.00$	63. 60. 61.
Armour's Big Crop 4-12-4 Fertil Guara		$\begin{array}{r} 4.00 \\ 4.22 \\ 4.06 \\ 4.00 \\ 4.06 \end{array}$	$12.00 \\ 11.52 \\ 12.00 \\ 12.00 \\ 12.50$	$\begin{array}{c} 4.00 \\ 4.04 \\ 4.09 \\ 4.01 \\ 3.89 \end{array}$	28.80 28.91 29.03 28.81 29.51		429 595 728 785 787 835	$\begin{array}{c} 14.30\\ 13.73\\ 13.82\\ 13.98\\ 14.01\\ 14.02\\ 13.20\\ 14.12 \end{array}$	$16.00 \\ 15.00 \\ 17.52 \\ 17.37 \\ 16.71 \\ 17.45 \\ 17.42 \\ 16.87 $	0.00 0.00 0.00	62. 59. 62. 62. 63. 63. 62.
Armour's Big Crop 3-12-12 Ferti Guara	ilizer nteed 285 434	$3.00 \\ 3.00 \\ 2.88$	$\begin{array}{c} 12.00 \\ 12.70 \\ 12.00 \end{array}$	$12.00 \\ 12.10 \\ 13.45$	30.60 31.50 31.10	2 2 2 2	361 501 530	13.88 13.84 14.80 14.72	$ \begin{array}{r} 16.56 \\ 17.26 \\ 16.75 \\ 16.55 \\ \end{array} $	0.00 0.00 0.00	61.5 62.2 64.5 64.0
Armour's Big Crop 8-32-0 Ferti Guara	nteed 167 561	8.00 7.42 7.33	32.00 28.37 34.50	0.00 0.00 0.00	62.40 56.30 63.39	22	ceed 200 041 797	10.00 9.60 9.24 9.60 10.02	10.00 11.10 10.90 11.44 11.28	10.00 11.00 10.05	48.0 48.1 47.4 48.56 49.3

Manufacturer, place of business and brand	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	F'otash, percent	Valuation found per ton, dollars	Manufacturer, place of business and brand Nittogen Nittogen	percent Available phosphoric acid, percent	Potash, percent Valuation found per ton, dollars
Armour's Pebble Plant Food 10 Guara	$\begin{array}{c} \text{nteed} \\ 609 \\ 1060 \\ 1136 \\ 1275 \end{array}$	10.00 9.68 10.12 9.01 10.02	20.00 20.00 20.50 20.69 20.00	0.00 0.00 0.00 0.00 0.00 0.00	54.00 53.04 54.96 51.86 54.06	Armour's Big Crop 10-20-10 Fertilizer Guaranteed 10. 14 9. 122 10. 202 10. 315 10.	00 20.00 20 20.00 24 20.00 18 20.00 18 20.00	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$1288 \\ 1393 \\ 1428 \\ 1527 \\ 1739 \\ 1793 \\ 1931 \\ 1962 \\ 2422 \\ 2555 \\ 2768 \\ -$	$\begin{array}{c} 10.22\\ 9.03\\ 9.18\\ 9.72\\ 9.24\\ 10.00\\ 10.18\\ 9.16\\ 9.28\\ 10.00\\ 10.56\end{array}$	$\begin{array}{c} 20.50\\ 21.55\\ 20.25\\ 20.50\\ 21.74\\ 20.75\\ 21.35\\ 21.57\\ 21.25\\ 20.25\\ 20.75\\ \end{array}$	$\begin{array}{c} 0.00\\$	55.26 52.95 51.84 53.76 53.81 54.90 56.16 53.36 53.34 54.30 56.58	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{ccccccc} 10.04 & 60.79 \\ 10.00 & 60.36 \\ 9.82 & 60.10 \\ 10.04 & 60.14 \\ 11.14 & 61.51 \\ 10.36 & 60.94 \\ 10.58 & 60.79 \\ 11.17 & 60.52 \\ 10.04 & 60.50 \\ 11.29 & 60.77 \\ 10.00 & 61.86 \\ 10.02 & 60.02 \end{array}$
Armour's Pebble Plant Food 5-1 Guara		$5.00 \\ 4.76 \\ 4.76 \\ 4.80 \\ 4.66$	$10.00 \\ 10.20 \\ 10.30 \\ 10.30 \\ 10.70$	$5.00 \\ 5.11 \\ 5.04 \\ 5.02 \\ 5.01$	30.00 29.59 29.66 29.77 29.83	773 10.: 869 10.: 872 8.6 Armour's Big Crop 5-10-10 Fertilizer Guaranteed 5.($\begin{array}{cccc} 0 & 21.09 \\ 6 & 20.00 \\ 4 & 22.82 \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	$1287 \\ 1427 \\ 1526 \\ 2257 \\ 2519$	$\begin{array}{r} 4.64 \\ 4.42 \\ 4.50 \\ 4.86 \\ 4.52 \end{array}$	$10.20 \\ 10.50 \\ 10.69 \\ 10.70 \\ 10.30$	$5.11 \\ 5.36 \\ 5.11 \\ 5.00 \\ 5.25$	29.23 29.08 29.39 30.42 29.07	Armour's Big Crop 4-12-4 Fertilizer Guaranteed 4.0	$\begin{array}{ccc} 7 & 10.60 \\ 7 & 10.50 \end{array}$	10.00 33.00 10.01 32.14 10.28 33.38 4.00 28.80
Armour's Pebble Plant Food 6-12 Guaran		$\begin{array}{c} 4.50 \\ 4.30 \\ 6.00 \\ 6.20 \\ 6.30 \\ 5.59 \end{array}$	$10.10 \\ 10.55 \\ 12.00 \\ 12.50 \\ 12.40 \\ 12.90 \\ 12.90 \\ 12.90 \\ 10.55 \\ 10.5$	$5.14 \\ 5.50 \\ 6.00 \\ 6.42 \\ 6.00 \\ 5.81 \\ $	28.70 28.86 36.00 37.45 37.38 35.74	$\begin{array}{cccccc} 45 & 4.2 \\ 1354 & 4.2 \\ 1359 & 4.2 \\ 1455 & 4.3 \\ 1504 & 4.0 \\ 1702 & 4.1 \\ 2077 & 3.7 \end{array}$	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	$\begin{array}{cccccc} 4.52 & 30.01 \\ 4.14 & 29.99 \\ 4.10 & 29.22 \\ 4.10 & 30.48 \\ 4.17 & 28.39 \\ 4.00 & 29.10 \\ 4.00 & 28.23 \end{array}$
	2360 20-10	5.43 5.43 10.00 8.68 9.33 9.62 9.32	$\begin{array}{c} 12.30\\ 12.40\\ 20.00\\ 17.65\\ 20.00\\ 20.50\\ 20.01 \end{array}$	10.00 9.22 10.18 7.56 9.78	60.00 52.75 58.10 58.00 57.84	Armour's Big Crop 20% Superphosphate Guaranteed 0.0 42 0.0 319 0.0 727 0.0 817 0.0 818 0.0	$\begin{array}{cccc} 0 & 20.00 \\ 0 & 20.75 \\ 0 & 20.75 \\ 0 & 20.25 \end{array}$	$\begin{array}{cccccc} 0.00 & 24.00 \\ 0.00 & 24.00 \\ 0.00 & 24.90 \\ 0.00 & 24.90 \\ 0.00 & 24.30 \\ 0.00 & 24.60 \end{array}$
	$\begin{array}{c} 1141 \\ 1270 \\ 1533 \\ 1836 \\ 1932 \\ 1960 \\ 2186 \\ 2349 \\ 2362 \\ 2425 \\ 2502 \\ 2648 \\ 2790 \end{array}$	$\begin{array}{c} 9.60\\ 9.02\\ 9.60\\ 9.20\\ 9.20\\ 9.37\\ 9.20\\ 9.26\\ 9.28\\ 9.64\\ 9.64\\ 8.96\\ 9.64\\ 10.20\\ \end{array}$	$\begin{array}{c} 20.75\\ 20.00\\ 21.25\\ 21.17\\ 21.66\\ 21.00\\ 21.00\\ 20.50\\ 20.50\\ 20.50\\ 21.51\\ 21.47\\ 20.00\\ 21.25 \end{array}$	$\begin{array}{c} 10.62\\ 10.22\\ 10.12\\ 11.16\\ 10.37\\ 10.22\\ 11.44\\ 10.32\\ 10.04\\ 11.00\\ 10.00\\ 9.26\\ 9.30\\ 10.40\\ \end{array}$	$\begin{array}{c} 60.07\\ 57.19\\ 60.37\\ 59.70\\ 59.27\\ 59.44\\ 59.66\\ 58.57\\ 58.46\\ 60.24\\ 60.73\\ 58.20\\ 58.50\\ 62.34\\ \end{array}$	Armour's Old Black Joe 5-10-5 Fertilizer Guaranteed 5.0 13 4.5 44 5.1 68 5.0 79 5.0 110 4.8 113 5.0 117 5.0 151 5.0 162 4.7 182 5.0 189 4.8	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{ccccccc} 5.00 & 30.00 \\ 5.20 & 29.01 \\ 5.07 & 30.88 \\ 4.22 & 31.02 \\ 5.24 & 29.81 \\ 5.00 & 30.38 \\ 5.00 & 30.06 \\ 5.00 & 30.72 \\ 5.17 & 30.10 \\ 5.14 & 30.08 \\ 5.17 & 29.55 \\ 5.02 & 30.31 \\ 5.12 & 29.59 \end{array}$
		$8.00 \\ 6.92 \\ 7.44$	$32.00 \\ 29.20 \\ 32.64$	$0.00 \\ 1.54 \\ 0.00$	$62.40 \\ 56.72 \\ 61.49$	$204 5.0 \\ 209 4.7 \\ 248 5.0 \\ 272 5.0 \\ 272 5.0 \\ 272 \\ 5.0 \\ 272 \\ 5.0 \\ 272 \\ 5.0 \\ 5.0 \\ 272 \\ 5.0 \\ 5.$	$\begin{array}{cccc} 8 & 10.20 \\ 3 & 10.00 \\ 0 & 10.00 \\ 5 & 10.00 \end{array}$	$\begin{array}{cccc} 5.01 & 30.49 \\ 5.07 & 29.23 \\ 5.32 & 30.19 \\ 4.68 & 29.99 \end{array}$
		phosph 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	ate 20.00 20.00 20.31 20.72 20.00 20.52 20.00 20.33 20.50 20.50	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	24.00 24.00 24.37 24.86 24.00 24.62 24.00 24.40 24.60 24.60	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Armour's Pebble Plant Food 45% Guaran	Superj teed 1788	phospha 0.00 0.00	te 45.00 45.77	$\substack{0.00\\0.00}$	54.00 54.92	$egin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{ccc} 10.10 \\ 10.00 \\ 10.60 \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
mour's Fertilizer Works, Housto Armour's Big Crop 0-16-8 Fertiliz Guaran	er	as 0.00 0.00 0.00 0.00 0.00 0.00	$\begin{array}{c} 16.00\\ 16.20\\ 16.00\\ 15.84\\ 16.50\\ 16.00\\ \end{array}$	8.00 8.87 8.55 8.40 8.24 8.72	$\begin{array}{c} 24.00\\ 24.76\\ 24.33\\ 24.05\\ 24.74\\ 24.43\end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 10.50\\ 10.20\\ 10.00\\ 10.64\\ 10.20\\ 10.10\\ 10.10\\ 10.10\\ 10.40\\ \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
		8.00 7.95 8.18 8.06 8.08	8.00 8.00 8.40 8.80 9.20	8.00 8.38 8.28 8.21 8.18	38.40 38.48 39.59 39.67 40.19	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c}10.20\\10.60\\10.10\\10.52\\10.05\\10.00\end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

Manufacturer, place of business and brand	number Nitrogen, percent	Available phosphoric acid, percent	P'otash, percent	Valuation found per ton, dollars	Manufacturer, place of business and brand	Laboratory number	Nitrogen, percent	Available phosphoric acid. percent	Potash, percent	Valuation
Armour's Old Black Joe 5-10-5 Fe	ertilizer		-	<u> </u>		1705	9.56	11.41	9.5	6
20 20 20 20 20 20 24	$\begin{array}{rrrrr} 19 & 5.04 \\ 25 & 5.08 \\ 69 & 5.26 \\ 78 & 4.80 \end{array}$	$ \begin{array}{r} 10.00 \\ 9.70 \\ 10.00 \\ 10.40 \\ 10.20 \\ 10.90 \\ \end{array} $	5.07 5.02 5.02 5.00 5.09 5.07	$\begin{array}{c} 28.84 \\ 29.77 \\ 30.25 \\ 31.26 \\ 29.69 \\ 31.48 \end{array}$		$1712 \\ 2001 \\ 2006 \\ 2100 \\ 2351$	$11.47 \\10.16 \\10.20 \\10.64 \\9.60$	$13.71 \\ 10.30 \\ 10.60 \\ 10.80 \\ 10.60$	5.7 10.0 10.2 10.3 10.1	0 2 6
26 26 27 27 27 28	$\begin{array}{cccc} 93 & 5.22 \\ 94 & 5.18 \\ 02 & 5.26 \\ 17 & 5.60 \end{array}$	$ \begin{array}{r} 10.00 \\ 10.00 \\ 10.00 \\ 10.40 \\ 10.80 \end{array} $	5.03 4.56 4.67 5.04 5.22	$\begin{array}{c} 30.92 \\ 30.28 \\ 30.58 \\ 32.30 \\ 32.47 \end{array}$	Armour's Pebble Plant Food 1 Guar	0-20-0 anteed 41 123 160	$10.00 \\ 10.18 \\ 10.00 \\ 10.00$	20.00 20.35 20.00 20.14	0.00 0.00 0.00 0.00)
Armour's Vertagreen Plant Food 8- Guarante 23:	ed 8.00 95 8.01	8.00 8.20 9.00	$8.00 \\ 8.36 \\ 7.48$	38.40 38.89 38.33	10.13 27.35 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	203 205 210 312 332	$ \begin{array}{r} 10.04 \\ 10.02 \\ 9.86 \\ 10.04 \\ 10.10 \end{array} $	20.00 20.00 20.00 20.00 20.00	0.00 0.00 0.00 0.00 0.00)))))
Armour's Vertagreen Plant Food 5- Guarantee 11 22 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 10.00\\ 10.50\\ 10.50\\ 10.50\\ 10.50\\ 10.50\\ 11.34\\ 10.10\\ 10.20\\ 10.30\\ 10.10\\ 10.20\\ 10.90\\ 10.70\\ 10.20\\ 10.10\\ 11.10\\ 10.32\\ 10.60\\ 10.50\\ 10.00\\ \end{array}$	$\begin{array}{c} 5.00\\ 5.75\\ 5.33\\ 5.30\\ 5.33\\ 5.02\\ 4.91\\ 5.33\\ 5.15\\ 5.32\\ 5.09\\ 5.01\\ 5.06\\ 5.02\\ 5.06\\ 5.02\\ 4.91\\ 5.24\\ 5.11\\ 5.24\\ 5.13\end{array}$	$\begin{array}{c} 30.00\\ 32.10\\ 31.52\\ 29.91\\ 30.93\\ 30.41\\ 31.75\\ 29.66\\ 30.74\\ 30.93\\ 30.37\\ 32.33\\ 28.99\\ 30.52\\ 29.14\\ 29.89\\ 30.42\\ 29.14\\ 29.89\\ 30.43\\ 28.97\\ 30.79\\ 30.79\\ 30.76\\ 29.63\\ \end{array}$	100 MC 100 AC 100 AC<	$\begin{array}{r} 389\\ 423\\ 429\\ 426\\ 558\\ 650\\ 680\\ 706\\ 827\\ 875\\ 875\\ 875\\ 875\\ 1459\\ 1475\\ 1496\\ 1643\\ 1707\\ 1711\\ 1869\\ 2031\\ 2089\\ 2341 \end{array}$	$\begin{array}{c} 10.20\\ 10.02\\ 10.02\\ 10.32\\ 10.29\\ 10.02\\ 10.02\\ 10.02\\ 10.02\\ 10.02\\ 10.02\\ 10.00\\ 10.08\\ 10.16\\ 10.32\\ 10.20\\ 10.00\\ 10.00\\ 10.03\\ 10.12\\ 9.84\\ 10.40\\ 10.12\\ 10.00\\ 10.04\\ 10.40\\ 10.12\\ \end{array}$	$\begin{array}{c} 20.25\\ 20.00\\ 20.25\\ 20.00\\ 18.00\\ 20.52\\ 20.00\\ 20.25\\ 20.25\\ 20.25\\ 20.25\\ 20.25\\ 20.25\\ 20.00\\ 20.00\\ 20.00\\ 20.00\\ 20.00\\ 20.75\\ 20.25\\ 20.75\\ 20.75\\ 20.75\\ 20.25\\ 20.75\\ 20.00\\ 21.55\\ \end{array}$	$egin{array}{c} 0.00\\ $	
Armour's Pebble Plant Food 10-10-0 Guarantee 17 82 85 85 86 149 184 184	$\begin{array}{ccccc} 76 & 10.16 \\ 21 & 9.70 \\ 26 & 10.04 \\ 57 & 10.00 \\ 58 & 10.12 \\ 99 & 10.00 \end{array}$	$10.00 \\ 11.40 \\ 10.09 \\ 10.20 \\ 10.00 \\ 10.50 \\ 10.00 \\ 10.73$	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	$\begin{array}{c} 42.00\\ 44.16\\ 41.21\\ 42.36\\ 42.00\\ 42.96\\ 42.00\\ 41.83\end{array}$	Armour's Pebble Plant Food 5-1 Guar	0-5 anteed 854 1472 1501 1854 2088 2091 2399	$5.00 \\ 4.75 \\ 5.16 \\ 4.89 \\ 5.62 \\ 5.42 \\ 6.00 \\ 5.38 $	$10.00 \\ 10.10 \\ 10.97 \\ 10.50 \\ 10.10 \\ 10.30 \\ 10.20$	5.00 5.00 5.00 4.87 6.56 4.58 5.14 4.84	31 21 30 31 31 31 31
urmour's Pebble Plant Food 14-14-0 Guarantee 14 54 71	$\begin{array}{ccc} 6 & 14.01 \\ 6 & 13.64 \end{array}$	$14.00 \\ 14.00 \\ 14.50 \\ 14.72$	$0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00$	58.80 58.83 58.32 59.66	Armour's Pebble Plant Food 6-1 Guara	2-6 anteed 112 161 166	$6.00 \\ 6.26 \\ 6.00 \\ 6.36$	$12.00 \\ 11.86 \\ 12.09 \\ 12.00$	$6.00 \\ 7.00 \\ 7.44 \\ 6.80$	36 37 36 37
Armour's Pebble Plant Food 15-15-0 Guarantee 77 85 101 145 146 147 149 160 166 166 166 170 213 213 214 227 234 Armour's Pebble Plant Food 10-10-1		$\begin{array}{c} 15.00\\ 16.00\\ 16.50\\ 15.75\\ 15.26\\ 15.26\\ 15.25\\ 15.25\\ 15.50\\ 15.25\\ 15.47\\ 16.36\\ 17.46\\ 14.44\\ 16.50\\ 16.75\\ 16.25\\ 16.25\\ 16.25\\ 16.24\\ 16.49\\ \end{array}$	$\begin{array}{c} 0.00\\$	$\begin{array}{c} 63.00\\ 64.20\\ 64.80\\ 64.77\\ 64.92\\ 61.09\\ 62.18\\ 62.71\\ 60.99\\ 62.64\\ 61.86\\ 62.60\\ 63.07\\ 63.19\\ 62.93\\ 63.48\\ 63.66\\ 61.16\\ 63.48\\ 63.66\\ 61.16\\ 63.48\\ 63.17\\ 62.99\\ \end{array}$	Bit Bit <td>487 499 545 548 709 726 871 884 955</td> <td>$\begin{array}{c} 5.26\\ 6.28\\ 6.28\\ 6.24\\ 5.96\\ 5.92\\ 6.00\\ 5.82\\ 6.00\\ 5.82\\ 6.00\\ 5.64\\ 6.26\\ 5.83\\ 6.20\\ 6.24\\ 6.16\\ 6.13\\ 6.18\\ 6.18\\ 6.18\\ 6.08\\ 6.12\\ 6.01\\ \end{array}$</td> <td>$\begin{array}{c} 12.00\\ 12.00\\ 12.15\\ 12.32\\ 12.11\\ 12.42\\ 12.20\\ 12.20\\ 12.42\\ 12.00\\ 12.42\\ 12.00\\ 12$</td> <td>$\begin{array}{c} 8.52\\ 6.62\\ 6.20\\ 6.35\\ 6.24\\ 6.41\\ 6.44\\ 6.34\\ 6.44\\ 6.32\\ 5.72\\ 6.62\\ 5.50\\ 5.62\\ 5.50\\ 5.68\\ 5.74\\ 6.09\\ 6.04\\ 6.01\\ 6.44\\ \end{array}$</td> <td>35, 37, 38, 37, 36, 36, 36, 35, 35, 35, 35, 35, 35, 35, 35, 35, 35</td>	487 499 545 548 709 726 871 884 955	$\begin{array}{c} 5.26\\ 6.28\\ 6.28\\ 6.24\\ 5.96\\ 5.92\\ 6.00\\ 5.82\\ 6.00\\ 5.82\\ 6.00\\ 5.64\\ 6.26\\ 5.83\\ 6.20\\ 6.24\\ 6.16\\ 6.13\\ 6.18\\ 6.18\\ 6.18\\ 6.08\\ 6.12\\ 6.01\\ \end{array}$	$\begin{array}{c} 12.00\\ 12.00\\ 12.15\\ 12.32\\ 12.11\\ 12.42\\ 12.20\\ 12.20\\ 12.42\\ 12.00\\ 12.42\\ 12.00\\ 12$	$\begin{array}{c} 8.52\\ 6.62\\ 6.20\\ 6.35\\ 6.24\\ 6.41\\ 6.44\\ 6.34\\ 6.44\\ 6.32\\ 5.72\\ 6.62\\ 5.50\\ 5.62\\ 5.50\\ 5.68\\ 5.74\\ 6.09\\ 6.04\\ 6.01\\ 6.44\\ \end{array}$	35, 37, 38, 37, 36, 36, 36, 35, 35, 35, 35, 35, 35, 35, 35, 35, 35
Guarantee 12 31 47 64 67 76 67 85 85 147 147 149	$\begin{array}{ccccc} d & 10.00 \\ 7 & 10.08 \\ 1 & 9.44 \\ 9 & 10.29 \\ 9 & 10.13 \\ 1 & 10.40 \\ 9 & 10.02 \\ 6 & 10.40 \\ 0 & 10.00 \\ 1 & 9.74 \end{array}$	$\begin{array}{c} 10.00\\ 10.00\\ 10.80\\ 11.34\\ 10.20\\ 10.10\\ 10.00\\ 10.70\\ 10.30\\ 11.01\\ 10.50\\ \end{array}$	$ \begin{array}{r} 10.00\\ 10.05\\ 8.84\\ 10.50\\ 10.00\\ 10.10\\ 10.04\\ 10.10\\ 9.81\\ 10.00\\ 10.07\\ \end{array} $	48.00 48.27 46.58 50.78 48.63 49.38 48.08 50.10 48.25 48.43	Armour's Pebble Plant Food 9-1 Guara Armour's Pebble Plant Food 10- Guara	8-9 inteed 94 380 386 885 20-10 inteed	9.00 9.06 9.16 9.22 9.44	18.00 18.00 18.25 18.75 18.50 20.00	9.00 8.17 8.77 9.36 9.04 10.00	54.1 53.1 54.1 55.9 60.0
149' 1611 1622 166	8 9.68 2 10.44	$10.50 \\ 10.70 \\ 10.40 \\ 11.00$	$10.07 \\ 9.42 \\ 9.41 \\ 9.29$	49.21 47.53 49.45 48.77		$56 \\ 677 \\ 1013 \\ 1449$	$10.12 \\ 9.93 \\ 10.00 \\ 10.01$	$20.00 \\ 20.25 \\ 20.50 \\ 21.25$	10.04 9.75	60.9 60.1 60.4 61.3

Manufacturer, place of business and brand	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	P'otash, percent	Valuation found per ton, dollars
Armour's Pebble Plant Food 10-	20-10				
	1498 1659 1668 1687 1868 1953 1956 1959 2005 2012 2030	$\begin{array}{c} 10.24\\ 10.12\\ 10.40\\ 10.12\\ 10.26\\ 10.32\\ 10.50\\ 10.00\\ 10.03\\ 10.32\\ 10.22\\ 9.60\\ 10.04\\ 10.08\\ 10.00\\ \end{array}$	$\begin{array}{c} 20.50\\ 18.77\\ 20.00\\ 20.00\\ 20.55\\ 21.00\\ 20.00\\ 21.00\\ 20.75\\ 21.25\\ 20.00\\ 20.50\\ 20.75\\ 21.25\\ 21.25\end{array}$	$\begin{array}{c} 10.02\\ 11.16\\ 10.18\\ 10.22\\ 10.22\\ 10.01\\ 10.00\\ 10.00\\ 10.12\\ 10.80\\ 11.16\\ 10.62\\ 10.03\\ 10.64\\ 10.62\\ 10.58\end{array}$	$\begin{array}{c} 61.33\\ 59.58\\ 61.31\\ 60.49\\ 61.21\\ 62.17\\ 60.36\\ 62.70\\ 60.97\\ 62.07\\ 61.63\\ 59.72\\ 61.63\\ 59.72\\ 61.79\\ 62.11\\ 61.85\end{array}$
	2695	10.52	20.50	9.10	61.62
umour's Pebble Plant Food 3-1 Guara		$3.00 \\ 3.04 \\ 3.07 \\ 3.30 \\ 3.17$	$12.00 \\ 12.07 \\ 12.05 \\ 13.00 \\ 12.04$	$12.00 \\ 12.03 \\ 12.00 \\ 8.03 \\ 10.96$	30.60 30.82 30.87 30.32 30.53
rmour's Pebble Plant Food 5-2 Guara	inteed 184	$5.00 \\ 5.08 \\ 5.05 \\ 5.25$	$20.00 \\ 20.15 \\ 20.00 \\ 20.25$	20.00 20.60 20.32 20.44	$51.00 \\ 51.78 \\ 51.34 \\ 52.31$
	nteed 43 58 59 78 87 98 343 403 403 403 403 408 411 416 418 430 501 547 559 572	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	$\begin{array}{r} 45.00 \\ 45.30 \\ 45.00 \\ 45.00 \\ 45.00 \end{array}$	$\begin{array}{c} 0.00\\$	$\begin{array}{c} 54.00\\ 54.00\\ 54.00\\ 54.00\\ 55.01\\ 54.40\\ 54.95\\ 55.20\\ 54.60\\ 54.40\\ 54.40\\ 54.40\\ 54.40\\ 54.40\\ 54.40\\ 54.40\\ 54.40\\ 54.40\\ 55.09\\ 54.41\\ 55.82\\ 55.88\\ 55.88\\ 54.66\\ 55.14\\ 55.09\\ 54.41\\ 55.09\\ 54.41\\ 55.09\\ 54.41\\ 55.67\\ 55.68\\ 55.14\\ 55.67\\ 55.79\\ 54.40\\ 54.40\\ 54.00\\ 54.58\\ 55.82\\ 55.92\\ 55.92\\ 55.86\\ 75.92\\ 55.86\\ 55.86\\ 55.88\\ 55$
mour's Sheep Manure Pulveriz	zed			2.00	

Manufacturer, place of business and brand	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	P'otash, percent	Valuation found per ton, dollars
Bactex Co., Inc., San Antonio, T Bactex Organic & Mineral Fer Guar	exas tilizer anteed 96	1.00	$1.00 \\ 5.25$	1.00	4.80 17.32
Best Fertilizer Co., Houston, Tex Sulphate of Ammonia 21%	as				
	anteed 121 131 383 678 831 1357 1364 1435 1494	$\begin{array}{c} 21.00\\ 20.80\\ 20.81\\ 21.04\\ 21.06\\ 20.97\\ 21.00\\ 21.11\\ 21.02\\ 21.27\end{array}$	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	$\begin{array}{c} 63.00\\ 62.40\\ 62.43\\ 63.12\\ 63.18\\ 62.91\\ 63.00\\ 63.33\\ 63.06\\ 63.81\end{array}$
Campbell Fertilizer Works, Houst All-Weather Organic Base Ferti	on, Tex	as 10-5			
	anteed 1304 1626 1699	5.00 5.77 6.76 5.65	$10.00 \\ 12.31 \\ 14.50 \\ 12.45$	$5.00 \\ 5.02 \\ 5.55 \\ 4.71$	30.00 35.09 41.01 34.72
All-Weather Organic Base Ferti	lizer 5-	10-10		10.00	
Guar	anteed 2004	$5.00 \\ 6.62$	$\begin{array}{c} 10.00\\ 9.59 \end{array}$	9.05	$33.00 \\ 36.80$
All-Weather Organic Base Fert Guar	ilizer 5- anteed 2003	10-15 5.00 5.92	$\begin{array}{c} 10.00\\ 14.06 \end{array}$	$\begin{array}{c} 15.00\\ 16.88 \end{array}$	$\begin{array}{c} 36.00\\ 44.76\end{array}$
All-Weather Organic Base Ferti Guar	ilizer 4-: anteed 1305 1700	$\begin{array}{r} 12-4 \\ 4.00 \\ 6.15 \\ 4.75 \end{array}$	$12.00 \\ 11.29 \\ 12.01$	$4.00 \\ 5.20 \\ 5.04$	28.80 35.12 31.69
All-Weather Brand Fertilizer 0- Guar		0.00	20.00 25.01	0.00	24.00 30.01
Hou-Actinite (Fortified) 6-2-0	504	0.00	1.		30.01
Guar	anteed 118 1603	$6.00 \\ 5.62 \\ 5.21$	$2.00 \\ 1.67 \\ 4.67$	$0.00 \\ 0.00 \\ 0.00$	20.40 18.86 21.23
Goldthwaite's Turf Special 10-5- Guar		10.00 10.64	5.00 4.13	5.00 4.23	39.00 39.41
Green-Glo (Commercial) 8-8-8 Guard	anteed 481 1303	$8.00 \\ 8.10 \\ 8.53$	8.00 8.60 8.09	8.00 6.90	38.40 38.76
1962. MA. 4045 24. 15	1505	7.54	10.18	$\begin{array}{c} 6.71 \\ 6.93 \end{array}$	$39.32 \\ 38.99$
Campbell's Granulated Fertilizer Guar:	s 14-14- anteed 1748	$\begin{smallmatrix}0\\14.00\\14.30\end{smallmatrix}$	$\begin{array}{c} 14.00\\ 12.02 \end{array}$	$\substack{0.00\\0.00}$	58.80 57.32
Campbell's Granulated Fertilized Guard	rs 5-20-2 anteed 2002	20 5.00 5.00	$\begin{array}{c} 20.00\\ 20.00\end{array}$	20.00 21.81	$\begin{array}{c} 51.00\\ 52.09\end{array}$
Campbell's Granulated Fertilizer Guard	s 16-20- anteed 1544 1749	$0\\16.00\\16.32\\16.01$	$20.00 \\ 18.34 \\ 20.26$	$0.00 \\ 0.00 \\ 0.00 \\ 0.00$	72.00 70.97 72.34
Campbell's Ammonium Sulfate : Guara		$21.00 \\ 21.13$	0.00	0.00	63.00 63.39
Min-Hu-Nite 10-10-0 Guara	nteed 759	10.00 11.65	$\begin{array}{c} 10.00\\ 6.70\end{array}$	0.00	42.00 42.99
Min-Hu-Nite 8-8-8 Guara	anteed 323	8.00 8.22	8.00 8.00	8.00 8.62	$38.40 \\ 39.43$
Min-Hu-Nite 5-10-5	757 anteed	10.76 5.00	5.74 10.00	3.74 5.00	41.41
Min-Hu-Nite 10-10-5	324 847	6.74 5.98	$10.20 \\ 10.59$	5.63 5.72 -	$35.84 \\ 34.08$
	nteed 758	10.00 11.40	$\begin{array}{c} 10.00\\ 6.66\end{array}$	$5.00\\4.54$	$\begin{array}{r} \textbf{45.00} \\ \textbf{44.92} \end{array}$
Central Texas Fertilizer Co., Inc., Topper 15-15-0	Coman	che, Tez	kas		
	1780 2142 2198	$\begin{array}{c} 15.00 \\ 15.00 \\ 14.32 \\ 14.06 \end{array}$	$15.00 \\ 15.25 \\ 16.29 \\ 17.00$	$\begin{array}{c} 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \end{array}$	$63.00 \\ 63.30 \\ 62.51 \\ 62.58$
				0.00	04.00

15

Manufacturer, place of business and brand	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	P'otash, percent	Valuation found per ton, dollars	Manufacturer, place of business and brand	number	Nitrogen, percent	Available phosphoric acid, percent	P'otash, percent	Valuation found per ton. dollars
Topper 10-10-10 Guara	inteed	10.00	10.00	10.00	48.00	Dixie 8-8-8 Fertilizer Guarante	ed	8.00	8.00	8.00	38.40
Topper 10-20-0	2196	9.57 10.00	10.40 20.00	9.01 0.00	46.60 54.00	12 21 22	45 02 31	8.01 8.02 8.02 7.84	8.60 8.30 8.70 9.00	8.04 8.00 8.22 8.00	39.17 38.82 39.43
Guara	153 1779 2143 2184 2199	$ \begin{array}{r} 10.00 \\ 9.44 \\ 10.12 \\ 11.47 \\ 9.85 \\ 11.42 \end{array} $	$20.00 \\ 20.00 \\ 20.50 \\ 21.25 \\ 20.75 \\ 18.89$	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\end{array}$	54.00 52.32 54.96 59.91 54.45 56.93	Dixie 7-14-0 Fertilizer Guarante	ed	7.00 7.29	14.00 14.00	0.00	37.80
Topper 5-10-5 Guara		$5.00 \\ 4.57$	$\begin{array}{c} 10.00\\ 12.85 \end{array}$	$5.00 \\ 5.45$	$\begin{array}{c} 30.00\\ 32.40\end{array}$	Dixie 10-20-0 Fertilizer Guarante		$0.00 \\ 0.55$	$\begin{array}{c} 20.00\\ 20.00\end{array}$	0.00	
	1033 1011 1016 2161 2179 2188 2350 2518 2777 2787 2787 2795 2799 2803 2814	$\begin{array}{c} 4.81\\ 4.62\\ 5.10\\ 5.43\\ 5.16\\ 5.03\\ 5.26\\ 4.78\\ 5.14\\ 3.90\\ 5.04\\ 5.03\\ 4.48\\ 5.02\end{array}$	$\begin{array}{c} 10.37\\ 10.80\\ 12.92\\ 11.70\\ 10.20\\ 10.60\\ 9.35\\ 10.00\\ 10.70\\ 10.30\\ 10.50\\ 10.30\\ 9.29\\ 10.40\\ \end{array}$	$\begin{array}{c} 4.77\\ 5.30\\ 6.31\\ 6.56\\ 7.00\\ 6.15\\ 6.48\\ 5.32\\ 3.87\\ 8.23\\ 5.00\\ 5.35\\ 3.79\\ 5.81\end{array}$	$\begin{array}{c} 29.74\\ 30.00\\ 34.59\\ 34.27\\ 31.92\\ 31.50\\ 30.89\\ 29.53\\ 30.58\\ 29.00\\ 30.72\\ 30.72\\ 30.72\\ 30.72\\ 31.03 \end{array}$	2 11 12 12 22 22 22 21 22 22 21 22 22 22	40 884 003 224 34 46 32 87 92 46	5.00 5.20 4.72 5.24 5.20 5.50 5.50 5.12 5.00 5.12 5.20	$\begin{array}{c} 10.00\\ 10.50\\ 12.37\\ 10.80\\ 11.00\\ 11.00\\ 10.70\\ 10.40\\ 11.00\\ 11.00\\ 10.50\\ 10.80 \end{array}$	$5.00 \\ 5.45 \\ 5.15 \\ 5.45 \\ 5.11 \\ 5.00 \\ 5.32 \\ 5.18 \\ 5.32 \\ 5.08 \\ 5.04 \\ 5.02$	30,00 31,47 32,09 31,95 31,36 31,80 32,53 30,59 31,75 31,25 31,22 31,57
Topper 10-20-10				1.66		Dixie 10-20-10 Fertilizer Guarante		0.00	20.00	10.00	60.00
Guara	$152 \\ 1005 \\ 1017 \\ 1778$	$ \begin{array}{r} 10.00 \\ 8.36 \\ 8.65 \\ 9.58 \\ 9.40 \end{array} $	$\begin{array}{c} 20.00 \\ 19.26 \\ 20.00 \\ 20.00 \\ 20.26 \end{array}$	$ \begin{array}{r} 10.00 \\ 8.88 \\ 8.69 \\ 10.78 \\ 10.55 \end{array} $	$ \begin{array}{r} 60.00 \\ 53.52 \\ 55.16 \\ 59.21 \\ 58.84 \end{array} $	inter the book and partit	22 77	9.60 9.10 5.00	21.10 20.66 10.00	9.00 9.44 10.00	59.52 57.76 33.00
	2083 2172 2177 2197 2776 2788	$10.20 \\ 9.68 \\ 10.02 \\ 10.18 \\ 11.36 \\ 10.28$	$\begin{array}{c} 21.25 \\ 21.50 \\ 21.25 \\ 20.75 \\ 18.85 \\ 19.82 \end{array}$	$10.18 \\ 10.04 \\ 10.38 \\ 10.00 \\ 3.81 \\ 7.03$	$\begin{array}{c} 62.21 \\ 60.86 \\ 61.79 \\ 61.44 \\ 58.99 \\ 58.84 \end{array}$	2 11 21	17 23 17	5.34 5.22 5.02 4.79	$ 10.00 \\ 10.60 \\ 10.70 \\ 11.00 $	$ \begin{array}{r} 10.01 \\ 10.10 \\ 10.00 \\ 10.42 \end{array} $	34.03 34.44 33.90 33.82
Topper 4-12-4 Guara		4.00	12.00 12.80	4.00 4.83	28.80 36.05		02	$3.00 \\ 3.55 \\ 3.30$	$12.00 \\ 12.50 \\ 12.00$	$\begin{array}{c} 12.00 \\ 13.56 \\ 13.32 \end{array}$	30.60 33.79 32.29
	2178 2780 2791 2794 2802	$\begin{array}{r} 4.56 \\ 4.03 \\ 4.56 \\ 4.52 \\ 4.80 \end{array}$	$12.00 \\ 12.00 \\ 11.09 \\ 11.75 \\ 10.36$	5.52 7.52 5.96 6.71 4.00	31.39 31.00 30.56 31.69 29.23	E. I. DuPont de Nemours & Co., Wilh Du Pont Nu Green Fertilizer Comp Guarante 18	ound 4 ed 4	n, De 15-0-0 5.00 5.00	elaware) 0.00 0.00		135.00 135.00
"Topper 8-24-8 Guara	nteed 2792	8.00 10.80	$\begin{array}{c} 24.00\\ 20.16\end{array}$	$\substack{8.00\\5.41}$	$57.60 \\ 59.84$	East Texas Products Co., Tyler, Texa Goldenrod 0-14-7 Plant Food Guarante	ed	0.00	$\begin{array}{c} 14.00\\ 14.00\end{array}$	7.00 7.31	21.00 21.19
	ion Bra nteed 1752	and	0.00 0.00	$\substack{0.00\\0.00}$	$\begin{array}{c} 48.00\\ 48.27\end{array}$		98	$0.00\\0.00\\0.00$	$16.00 \\ 17.00 \\ 16.25$	8.00 8.86 8.64	24.00 25.71 24.68
Colorado Fuel & Iron Corp., Denve		.				Goldenrod 8-8-8 Plant Food					
CF&I Sulfate of Ammonia Guara	nteed 1751 1754 1809	$20.50 \\ 20.60 \\ 20.56 \\ 20.92$	$\begin{array}{c} 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \end{array}$	$\begin{array}{c} 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \end{array}$	$61.50 \\ 61.80 \\ 61.68 \\ 62.76$	8	38 00 00 94	8.00 8.20 8.03 8.01 8.00 8.00	8.00 8.10 8.37 8.00 8.20	8.00 8.16 8.36 8.42 8.18 7.84	38.40 39.22 38.83 39.13 38.51 38.54
Commercial Solvents Corp., New Y Crystalline Ammonium Nitrate F Guara	ertilize		$0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00$	$0.00 \\ 0.00 \\ 0.00$	$100.50 \\ 102.30 \\ 101.04 \\ 101.67 \\ 101.40$	19 20 22 23 23 23 23 23 23 23 23 23 23 23 23	29 33 90 13 74 85 96 03	8.50 8.34 8.06 8.22 7.82 8.02 8.00 8.12	$\begin{array}{c} 8.00\\ 8.00\\ 8.10\\ 8.00\\ 8.36\\ 8.30\\ 8.10\\ 8.50\end{array}$	$\begin{array}{c} 8.00\\ 8.44\\ 8.00\\ 8.22\\ 7.84\\ 8.12\\ 8.00\\ 8.06\end{array}$	29.90 39.68 38.70 39.19 38.20 38.89 38.52 39.40
Davison Chemical Company, Gretn Davco Bull Dog Fertilizer 5-10-5 Guara		5.00 5.03 4.77	$10.00 \\ 10.20 \\ 10.20$	$5.00 \\ 5.03 \\ 5.16$	$30.00 \\ 30.35 \\ 29.65$	26 26 27	25 8 83 8 40 8 54 8 56 8	8.12 8.08 8.00 8.08 8.50 8.50 8.00 8.26	8.00 8.40 8.74 8.30 8.10 8.20 8.10	8.27 8.16 8.04 8.06 8.06 8.06 8.01 8.18	38.92 39.22 39.31 39.04 40.06 38.65 39.41
Davco Bull Dog Fertilizer 4-12-4 Guara	nteed 138 1337	$\begin{array}{r} 4.00\\ 4.18\\ 4.00\end{array}$	$12.00\\11.20\\12.00$	$4.00 \\ 5.00 \\ 4.08$	$28.80 \\ 28.98 \\ 28.85$	Goldenrod 12-12-12 Plant Food Guarante 7	ed 12 52 11 99 11	2.00 1.88 1.33	$12.00 \\ 15.24 \\ 12.00$	12.00 7.28 12.06	57.60 58.30 55.63
Dixie Fertilizer Co., Inc., Shrevepor Dixie 0-14-7 Fertilizer Guara	영화 공동 영화	isiana 0.00	14.00	7.00	21.00	23 Goldenrod 10-20-0 Plant Food	84 11	1.60	12.60	11.43	56.78
Guara	602	0.00	$\begin{array}{c} 14.00\\ 14.02 \end{array}$	$\begin{array}{c} 7.00\\ 8.10\end{array}$	$\begin{array}{c} 21.00\\ 21.68\end{array}$	Guarante 18		0.00	$\begin{array}{c} 20.00\\ 19.66 \end{array}$		54.00 53:71

Manufacturer, place of business and brand	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	P'otash, percent	Valuation found per ton, dollars	Manufacturer, place of business and brand	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	P'otash, percent	Valuation found per ton, dollars
Goldenrod 5-10-5 Plant Food Guara	nteed	5.00	10.00	5.00	30.00	man with the strength and	$2213 \\ 2217$	8.24 8.24	8.30 8.20	8.20 8.00	39.60 39.36
	$260 \\ 295 \\ 296 \\ 299 \\ 350 \\ 604 \\ 734$	5.03 5.26 5.16 5.14 4.92 5.03 5.04	$\begin{array}{r} 9.92 \\ 9.81 \\ 10.00 \\ 10.04 \\ 10.00 \\ 10.63 \\ 10.00 \end{array}$	5.45 5.44 5.47 5.44 5.18 5.08 5.29 5.29	$\begin{array}{c} 30.26\\ 30.82\\ 30.76\\ 30.74\\ 29.87\\ 30.89\\ 30.29\\ 30.29\end{array}$		$\begin{array}{c} 2579\\ 2589\\ 2601\\ 2607\\ 2609\\ 2618\\ 2627\\ \end{array}$	8.20 8.44 8.10 8.38 8.48 8.20 8.36	8.70 8.90 8.70 8.60 8.60 8.50 10.30	8.02 8.00 8.00 8.02 8.02 8.02 8.10 8.00	$\begin{array}{c} 39.85\\ 40.80\\ 39.54\\ 40.27\\ 40.57\\ 39.66\\ 42.24\end{array}$
	796 801 1038 1091 1181 1196 1214	5.02 5.12 5.06 5.18 5.00 5.16 5.04	$10.42 \\10.00 \\10.17 \\10.00 \\10.20 \\9.59 \\10.20$	5.48 5.01 5.01 5.19 5.03 5.05	$\begin{array}{c} 30.85\\ 30.42\\ 30.39\\ 30.55\\ 30.35\\ 30.01\\ 30.39 \end{array}$	Mule Brand 12-12-12 Guara	nteed 2216 2577 2602	$12.00 \\ 12.32 \\ 12.03 \\ 12.00$	$12.00 \\ 12.40 \\ 13.20 \\ 12.30$	$12.00 \\ 12.27 \\ 11.76 \\ 11.50$	57.60 59.20 58.99 57.66
	$\begin{array}{r} 1885\\ 2291\\ 2314\\ 2330\\ 2336\\ 2386\\ 2387\\ 2404\\ 2442\\ 2443\\ 2444\\ 2443\\ 2451\\ 2456\\ 2480\\ 2624\\ 2624\\ 2682\\ 2730\\ 2753\\ 2765 \end{array}$	$\begin{array}{c} 5.16\\ 5.10\\ 5.00\\ 5.00\\ 5.00\\ 5.08\\ 5.06\\ 5.18\\ 5.24\\ 5.10\\ 5.18\\ 5.24\\ 5.24\\ 4.76\\ 5.24\\ 5.10\\ 5.00\\ 5.00\\ 5.36\end{array}$	$\begin{array}{c} 10.02\\ 10.30\\ 10.00\\ 10.00\\ 10.32\\ 10.20\\ 10.10\\ 10.00\\ 10.40\\ 10.20\\ 10.10\\ 10.00\\ 10.00\\ 10.00\\ 10.00\\ 10.20\\ 10.84\\ 10.10\\ 10.15\\ 10.40\\ \end{array}$	$\begin{array}{c} 5.00\\ 5.00\\ 5.00\\ 5.16\\ 5.16\\ 5.12\\ 5.04\\ 5.00\\ 5.00\\ 5.00\\ 5.00\\ 5.00\\ 5.00\\ 5.00\\ 5.00\\ 5.16\\ 5.28\\ 5.16\\ 5.18\\ 5.13\\ 5.40\\ \end{array}$	$\begin{array}{c} 30.50\\ 30.66\\ 30.00\\ 30.48\\ 30.34\\ 30.43\\ 30.20\\ 31.02\\ 30.98\\ 30.42\\ 30.54\\ 30.54\\ 30.72\\ 31.05\\ 31.05\\ 31.05\\ 31.34\\ 30.28\\ 30.26\\ 31.80\\ \end{array}$		$\begin{array}{r} 462\\ 507\\ 525\\ 530\\ 946\\ 1088\\ 1089\\ 1113\\ 1142\\ 1891\\ 1981\\ 2036\\ 2107\\ 2214\\ 2578\\ 2578\\ 2588\\ 2606 \end{array}$	5.00 5.02 4.85 5.00 5.27 5.32 5.10 5.28 5.30 5.18 5.20 5.44 5.20 5.442 5.20 5.442 5.20 5.36 5.36 5.36 5.36	$\begin{array}{c} 10.00\\ 10.60\\ 10.50\\ 10.30\\ 10.20\\ 10.00\\ 10.00\\ 9.85\\ 10.00\\ 10.00\\ 10.40\\ 10.40\\ 10.40\\ 10.40\\ 10.60\\ 10.10\\ \end{array}$	5.00 5.69 5.50 3.02 5.31 6.15 5.02 5.73 6.302 5.73 6.302 5.50 5.02 5.73 6.302 5.50 5.02 5.73 6.302 5.50 5.00 5.02 5.50 5.00	$\begin{array}{c} 30.00\\ 31.14\\ 30.56\\ 30.74\\ 31.14\\ 31.26\\ 30.38\\ 31.03\\ 31.41\\ 30.60\\ 30.55\\ 31.88\\ 32.58\\ 30.67\\ 31.38\\ 32.58\\ 30.67\\ 31.38\\ 31.88\\ 31.80\\ 31.34\\ \end{array}$
Goldenrod 10-20-10 Plant Food Guaran	teed 255 261 297 603	$10.00 \\ 10.02 \\ 10.16 \\ 10.06 \\ 9.63$	$\begin{array}{c} 20.00 \\ 20.20 \\ 20.00 \\ 20.50 \\ 20.75 \end{array}$	$10.00 \\ 11.38 \\ 10.60 \\ 10.05 \\ 9.56$	60.00 61.13 60.84 60.81 59.53		2608 2616 2626 2637	$5.54 \\ 5.60 \\ 5.40 \\ 5.66$	$10.50 \\ 10.30 \\ 11.00 \\ 10.40$	$5.21 \\ 5.91 \\ 5.31 \\ 5.30$	$32.35 \\ 32.71 \\ 32.59 \\ 32.64$
	605 622 795 1090 1182 2305 2373 2383 2407 2426 2432 24455 2644	$\begin{array}{c} 10.00\\ 9.39\\ 10.08\\ 10.13\\ 10.20\\ 8.64\\ 10.04\\ 10.24\\ 6.60\\ 9.72\\ 10.12\\ 9.60\\ 10.02\\ 10.04 \end{array}$	$\begin{array}{c} 20.00\\ 20.00\\ 19.42\\ 19.51\\ 20.00\\ 21.00\\ 20.00\\ 20.00\\ 20.80\\ 21.90\\ 21.00\\ 20.75\\ 19.10\\ 21.00 \end{array}$	$\begin{array}{c} 9.81 \\ 12.64 \\ 10.22 \\ 10.26 \\ 10.86 \\ 11.17 \\ 11.30 \\ 10.64 \\ 11.84 \\ 9.71 \\ 10.04 \\ 10.58 \\ 10.36 \\ 10.00 \end{array}$	$\begin{array}{c} 59.89\\ 59.75\\ 59.68\\ 59.96\\ 61.11\\ 57.82\\ 60.90\\ 61.10\\ 51.86\\ 61.27\\ 61.58\\ 60.05\\ 59.20\\ 61.32 \end{array}$		509 516 526 942 973 1112 1892 1972 2215 2590	$10.00 \\ 9.50 \\ 8.39 \\ 10.09 \\ 9.50 \\ 9.75 \\ 10.40 \\ 10.16 \\ 10.00 \\ 9.20 \\ 10.04 \\ 5.00$	20.00 20.75 20.00 21.00 20.00 20.00 20.00 20.65 21.00 19.50 20.00 20.00	10.00 10.64 10.94 10.60 10.22 10.20 10.04 10.82 10.86 10.00 10.08	60.00 59.78 55.73 61.83 58.63 59.37 62.00 62.17 59.92 57.60 60.17 33.00
Goldenrod 5-10-10 Plant Food Guaran	2710 teed 2442	10.06 5.00 5.14	20.75 10.00 10.20	10.00 10.00 9.69	61.08 33.00 33.47		12 1973 2617	$5.00 \\ 5.40 \\ 5.36$	$ \begin{array}{r} 10.00 \\ 10.55 \\ 10.00 \\ 10.30 \end{array} $	$ 10.00 \\ 10.00 \\ 10.50 \\ 10.00 $	33.66 34.50 34.44
2 Goldenrod 4-12-4 Plant Food Guarant	252	5.68 5.04 4.00 4.56	$10.24 \\ 10.40 \\ 12.00 \\ 11.77$	10.04 9.84 4.00 4.90	35.35 33.50 28.80 30.74	Mule Brand 3-12-12 Guaran	teed 450 510 941	$3.00 \\ 3.47 \\ 3.40 \\ 3.21 $	$\begin{array}{c} 12.00 \\ 12.00 \\ 12.00 \\ 12.60 \end{array}$	$\begin{array}{c} 12.00 \\ 12.46 \\ 13.29 \\ 11.47 \end{array}$	30.60 32.28 32.57 31.63
2	345 802 838	$4.09 \\ 4.20 \\ 4.94$	$12.70 \\ 12.04 \\ 12.10$	$4.55 \\ 4.20 \\ 4.31$	$30.24 \\ 29.57 \\ 31.93$	Mule Brand 20% Superphosphate Guaran	teed 527	$\substack{\textbf{0.00}\\\textbf{0.00}}$	$\begin{array}{c} 20.00\\ 20.94 \end{array}$	$\begin{array}{c} 0.00\\ 0.00\end{array}$	$\begin{array}{c} 24.00\\ 25.13\end{array}$
1	teed 256 344 351 .001	(as) 8-8- 8.00 8.08 8.11 8.32 8.00	-8 8.00 8.00 8.10 8.04 8.00	8.00 8.44 8.30 8.68 8.42	38.40 38.90 39.03 39.82 38.65			8.00 7.64 8.04 8.00 8.20	8.00 8.30 8.20 8.10 8.60	8.00 8.40 8.42 8.36 8.16	38.40 37.92 39.01 38.74 39.82
amers Fertilizer Co., Texarkana, T Mule Brand 0-16-8 Guarant		$\begin{array}{c} 0.00\\ 0.00\end{array}$	$\begin{array}{c} 16.00\\ 16.75\end{array}$	8.00 7.80	$\begin{array}{c} 24.00\\ 24.78\end{array}$		096 276 379 705 724	7.76 7.62 7.46 8.16 7.64	8.70 8.90 8.80 8.40 9.16	8.02 8.00 8.50 8.62 8.18	38.53 38.34 38.04 39.73 38.82
1 1 1 1 1 1 2	ceed 451 463 506 508 945 087 092 890 980 035 2106	$\begin{array}{c} 8.00\\ 8.34\\ 8.18\\ 7.62\\ 8.30\\ 8.02\\ 8.38\\ 8.22\\ 7.84\\ 8.07\\ 8.14\\ 8.01 \end{array}$	$\begin{array}{c} 8.00\\ 8.50\\ 8.70\\ 8.30\\ 8.40\\ 8.20\\ 8.10\\ 8.40\\ 8.40\\ 8.50\\ 8.60\\ 8.40\end{array}$	8.00 8.44 8.66 8.52 8.64 8.38 8.20 8.16 8.18 8.20 8.28 8.00	38.40 40.28 40.18 37.93 40.16 38.93 39.78 39.64 38.51 39.33 39.71 38.91	Fidelity 5-10-5 Fertilizer Guarant		$5.00 \\ 4.77 \\ 5.20 \\ 4.82 \\ 4.76 \\ 5.00 \\ 5.10 \\ 4.66 \\ 4.74 \\ 4.86 \\ 5.12 $	10.00 10.00 10.10 10.20 10.20 10.30 10.30 10.71 10.21 10.70 10.30	$5.00 \\ 5.47 \\ 5.78 \\ 5.09 \\ 4.95 \\ 5.06 \\ 4.32 \\ 5.05 \\ 5.00 \\ 5.00 \\ 5.20 $	30.00 29.59 31.19 29.75 29.49 30.04 30.25 29.86 29.47 30.42 30.84

Manufacturer, place of busi and brand	iness	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	P'otash, percent	Valuation found per ton, dollars	Manufac	turer, p and b	lace of bu rand	siness	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	P'otash,	Valuation
Fidelity 10-20-10 Fertilizer	Guaran		10.00	20.00	10.00	60.00	and the second				2391 2605	8.14 6.94	8.70 9.39	7.1	
		$1710 \\ 2275$	$\begin{array}{r} 9.20\\10.00\end{array}$	$\begin{array}{c} 21.75\\ 17.59 \end{array}$	9.44 10.88	$59.36 \\ 57.64$					2612 2636	$6.40 \\ 7.50$	10.36	6.5 8.4	2 39
Fidelity 4-12-4 Fertilizer	Guaran	teed	4.00	12.00	4.00	28.80					$\begin{array}{c} 2744\\ 2751 \end{array}$	8.02 7.00	8.40 9.52	6.8 6.2	
		949 1224	$\begin{array}{c} 3.42 \\ 4.30 \end{array}$	$12.70 \\ 12.80$	$3.72 \\ 4.52$	$27.73 \\ 30.97$	Hi-Yield	Brand	5-10-5	Guars	antèed	5.00	10.00	5.0	0 30
Fidelity 3-12-12 Fertilizer	Guaran	tood	3.00	19.00	19.00	20.00				Guara	594 637	$4.15 \\ 5.80$	10.34 12.11	6.9 5.3	4 29
	Guaran	26	3.03	$\begin{array}{c} 12.00\\ 12.30\end{array}$	$12.00 \\ 13.37$	$30.60 \\ 31.87$					975 1180	$5.38 \\ 4.37$	$9.70 \\ 10.00$	6.3 6.0	2 31
Fidelity Sulphate of Amm	Guaran		20.60	0.00	0.00	61.80					$1905 \\ 1914 \\ 1919$	$5.30 \\ 4.56 \\ 5.30$	$10.00 \\ 10.10 \\ 9.50$	6.1 6.2 6.0	9 29
Ferti-Lome for Lawns &]		1490 6 12	20.60	0.00	0.00	61.80					1919 1926 1945	4.76 5.44	· 10.10 9.40	4.8 5.2	9 29
reru-Lome for Lawis & I	Guaran		4 6.00 6.33	$12.00 \\ 12.40$	$4.00 \\ 4.29$	$\begin{array}{r} 34.80\\ 36.44\end{array}$					1978 1979	6.08 5.02	$10.51 \\ 10.00$	5.0	5 33
	2	2282	6.00 6.10	$12.30 \\ 12.50$	4.05	35.19 35.77					$\begin{array}{c} 1993 \\ 2043 \end{array}$	$5.26 \\ 5.79$	$9.00 \\ 10.25$	5.20 5.77) 29 7 33
ilmer Cotton Oil & Fertiliz											2044 2125	$4.76 \\ 5.28$	$ \begin{array}{r} 11.70 \\ 9.00 \\ \hline \end{array} $	6.39 5.32	29
Texas Longhorn 0-14-14	Guaran		0.00	14.00	14.00	25.20					$2286 \\ 2320 \\ 2392$	$5.02 \\ 5.16 \\ 5.76$	$9.37 \\ 10.10 \\ 10.30$	5.18 5.08 5.18	30
		444	0.00	14.04	11.89	23.98					2592 2570 2585	6.70 5.04	9.21 8.90	6.51 5.09	35
Texas Longhorn 0-16-8	Guaran		0.00	16.00	8.00	24.00					2604 2611	4.20 5.14	9.00 9.52	5.03	26
11. ALA		445	0.00	14.84	11.98	24.99					$2635 \\ 2706$	$\begin{array}{r} 4.44 \\ 4.62 \end{array}$	$10.60 \\ 8.52$	5.00 5.32	29 27
Texas Longhorn 8-8-8	Guarant		8.00	8.00	8.00	38.40					$\begin{array}{c} 2743\\ 2750 \end{array}$	5.14 5.00	$\begin{array}{r}9.69\\10.01\end{array}$	$5.06 \\ 5.02$	
		438 936 995	$8.18 \\ 8.45 \\ 8.16$	$8.60 \\ 8.04 \\ 8.20$	8.24 8.00	39.80 39.80	Hi-Yield	Brand	10-20-10						
		1898 2045	8.16 8.00	8.20 8.50	$7.84 \\ 8.38 \\ 8.08$	$39.02 \\ 39.35 \\ 39.05$			R . (4)	Guara	457	$\begin{array}{r}10.00\\7.44\end{array}$	$\begin{array}{c} 20.00\\ 14.01 \end{array}$	$10.00 \\ 11.50$	46
	2	212	7.60 8.00	9.00 8.60	7.29 8.24	37.97 39.26		f			$\begin{array}{r} 638 \\ 1925 \end{array}$	$8.14 \\ 9.72$	$16.73 \\ 20.00$	7.20 9.32	48. 58.
		2303	8.00	8.70	8.50	39.54	Hi-Yield	Brand	4-12-4	Guara	nteed	4.00	12.00	4.00	28.1
Texas Longhorn 12-12-12	Guarant		12.00	12.00	12.00	57.60				Guura	593	4.30	10.91	6.15	29.0
Texas Longhorn 5-10-5	1	1897	10.40	11.37	11.74	51.89	Hi-Yield	Brand	3-12-12	Guara		3.00	12.00	12.00	30.
Texas Longhorn 5-10-5	Guarant	teed 937	$5.00 \\ 5.20$	$10.00 \\ 10.00$	$5.00 \\ 5.29$	$30.00 \\ 30.77$					$\begin{array}{c} 305 \\ 447 \\ 450 \end{array}$	$3.51 \\ 1.83 $	$11.45 \\ 11.66$	$10.73 \\ 12.10$	30.3
		977 996	$6.30 \\ 6.30$	$10.05 \\ 10.30$	5.31 5.21	$34.15 \\ 34.39$	Hi-Yield	Brand	0-20-0		458	4.03	12.00	7.39	30.9
2017 - 100 -	1	228 895	$6.06 \\ 5.10$	$\begin{array}{r} 9.38\\10.04\end{array}$	$6.15 \\ 5.11$	$\begin{array}{c} 33.13\\ 30.41\end{array}$	III-Ticiu	Dranu	0-20-0	Guara	nteed 976	$0.00 \\ 0.00$	20.00 19.22	0.00	24.0 23.0
	1	.899 .918	5.80 5.34	9.60 10.20	$5.70 \\ 5.20$	$32.34 \\ 31.38 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	Hi-Yield Fo			nham, I		0100	10122	0.00	
	2	239 323	$5.22 \\ 5.68 \\ 5.86$	$10.00 \\ 10.50 \\ 10.00$	$5.04 \\ 5.73 \\ 5.18$	30.68 33.08	Hi-Yield	Brand	0-16-8	Guara		0.00	16.00	8.00	24.0
	2	632 659	$5.06 \\ 4.48$	10.00 10.50 10.40	6.29 5.18	$32.69 \\ 31.55 \\ 29.03$	Hi-Yield	Duond	10.10.0		1053	0.00	19.00	3.49	24.8
		747	5.00	10.20	5.06	30.28	iii-Tielu		10-10-0	Guara	nteed 1263	10.00 10.12	$10.00 \\ 10.30$	0.00	42.0 42.7
Texas Longhorn 10-20-10	Guarant		10.00	20.00	10.00	60.00	Hi-Yield	Brand	8-8-8		1100	10.11	10.00	0.00	14.11
		377 439 894	$9.30 \\ 9.48 \\ 8.72$	$16.71 \\ 20.75 \\ 10.00$	9.67 11.23	53.75 60.07		Drand		Guara	nteed 907	$8.00 \\ 6.37$	8.00 8.30	8.00 7.87	38.4
		633	10.36	$\begin{array}{c} 19.00\\ 18.69 \end{array}$	$\begin{array}{c} 9.80\\ 10.00 \end{array}$	54.84 59.51					$\begin{array}{c} 970\\1144\end{array}$	$7.74 \\ 7.54$	$8.50 \\ 7.74$	8.56 9.10	38.5 37.3
Texas Longhorn 5-10-10	Guarant	eed	5.00	10.00	10.00	33.00					$\begin{array}{c} 1150\\ 1889 \end{array}$	$7.53 \\ 6.20$	8.29 9.85	$8.82 \\ 6.40$	37.88 34.26
	2	136	5.32	9.50	11.66	34.36					1901 2464 2560	7.42 7.30	9.00 8.50	8.56 8.00	38.20 36.90
rand River Chemical Compa Vitrea 45-0-0	any, Tul	sa, O	klahom	a							2560	7.20	8.97	7.50	36.86
		330	45.00 45.00	0.00 0.00	0.00	$135.00 \\ 135.00$	Hi-Yield	Brand	10-20-0	Guara		10.00	20.00	0.00	54.00
	1	369 807	$\begin{array}{r} 45.30\\ 45.21 \end{array}$	0.00 0.00	$0.00 \\ 0.00$	$135.90 \\ 135.63$					968 1145 1159	$10.20 \\ 10.00 \\ 9.28$	20.75	0.00	55.50 54.60
alf Chemical Company, Ga	lena Pa	rk, T	'exas								$1159 \\ 1265 \\ 1273$	9.28 10.20 10.02	$20.62 \\ 21.00 \\ 20.50$	$0.00 \\ 0.00 \\ 0.00$	52.58 55.80 54.66
Gulf Brand 16-20-0	Guarant		16.00	20.00	0.00	72.00					1413 1424	9.71 10.00	20.00 21.00	0.00	53.13 55.20
		335 382	$17.41 \\ 17.17$	$\begin{array}{c} 19.17\\ 20.00 \end{array}$	$\begin{array}{c} 0.00\\ 0.00\end{array}$	$75.23 \\ 75.51$					2498 2512	$\begin{array}{r} 9.04 \\ 10.00 \end{array}$	$20.07 \\ 21.00$	$2.06 \\ 0.00$	52.44 55.20
-Yield Plant Food Company	, Mt. P	leasaı	nt, Texa	IS				14			2763	10.12	21.75	0.00	56.46
Hi-Yield Brand 8-8-8	Guarant		8.00	8.00	8.00	38.40	Hi-Yield	Brand	5-10-5	Guarai		5.00	10.00		30.00
	1	098 099 124	$7.26 \\ 8.00 \\ 8.00$	$8.10 \\ 8.50 \\ 9.00$	$6.28 \\ 6.04 \\ 5.84$	$35.27 \\ 37.82 \\ 38.30$					306 532	3.87 5.00	10.81 9.76	$\begin{array}{c} 6.73 \\ 4.32 \end{array}$	28.62 29.30
	2:	285 319	5.90 8.02	9.31 8.50	7.56 7.24	$33.41 \\ 38.60$					535 591	5.50 5.54	10.30 11.00		31.96 32.82
	8. S		5.04	5.00	1	00.00					908	5.08	9.65	6.44	30.68

Manufacturer, place of busine and brand	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	P'otash, percent	Valuation found per ton, dollars	Manufacturer, place of business and brand	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	P'otash, percent	Valuation found per ton, dollars
Hi-Yield Brand 5-10-5	Sec. 2						1856	13.44	17.87	0.00	61.76
	$\begin{array}{r} 969\\974\\1054\\1097\\1143\\1149\\1186\\1195\\195\end{array}$	5.02 3.33 5.06 5.22 5.00 6.00 5.12 5.00 5.02	$10.20 \\ 21.07 \\ 10.00 \\ 10.00 \\ 11.50 \\ 10.20 \\ 11.38 \\ 9.83 \\ 10.10 \\ 10.00$	$\begin{array}{r} 4.82\\ 3.71\\ 5.15\\ 5.55\\ 5.10\\ 6.96\\ 4.17\\ 5.29\end{array}$	30.19 37.50 30.27 30.99 31.86 34.42 31.52 29.97 29.97	Balan R.46 322.23 2.70 322.94	1902 2086 2250 2260 2263 2357 2487	$14.16 \\ 13.44 \\ 13.84 \\ 13.13 \\ 12.75 \\ 14.42 \\ 14.76$	$\begin{array}{c} 15.00\\ 17.77\\ 18.85\\ 17.59\\ 18.77\\ 15.90\\ 17.05 \end{array}$	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	$\begin{array}{c} 60.48 \\ 61.64 \\ 64.14 \\ 60.50 \\ 60.77 \\ 62.34 \\ 64.74 \end{array}$
1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	$1272 \\ 1409 \\ 1418 \\ 2473 \\ 2479 \\ 2484 \\ 2499 \\ 2514 \\ 2514 \\ $	$\begin{array}{r} 4.72 \\ 4.80 \\ 5.26 \\ 5.60 \\ 5.00 \\ 5.03 \\ 5.20 \\ 5.00 \\ 5.00 \end{array}$	$10.10 \\ 10.30 \\ 10.70 \\ 10.00 \\ 10.30 \\ 10.20 \\ 10.80 \\ 10.24 \\ 10.24$	$\begin{array}{r} 4.44 \\ 5.02 \\ 5.13 \\ 6.15 \\ 5.07 \\ 4.88 \\ 4.67 \\ 5.04 \end{array}$	$\begin{array}{c} 28.94 \\ 29.77 \\ 31.70 \\ 32.49 \\ 30.40 \\ 30.26 \\ 31.36 \\ 30.31 \\ \end{array}$	International 8-8-8 Fertilizer Guara		$\begin{array}{c} 8.00 \\ 7.41 \\ 6.21 \\ 8.04 \\ 8.60 \\ 7.32 \end{array}$	$\begin{array}{c} 8.00\\ 10.15\\ 12.85\\ 9.36\\ 9.67\\ 9.70\end{array}$	$\begin{array}{c} 8.00 \\ 6.81 \\ 5.80 \\ 7.17 \\ 9.28 \\ 9.12 \end{array}$	38.40 38.50 37.53 39.65 42.97 39.07
Hi-Yield Brand 10-20-10 C	2564 2828 Guaranteed 533 581 590	$5.02 \\ 5.00 \\ 10.00 \\ 8.10 \\ 10.08 \\ 8.46 \\ $	$ \begin{array}{r} 10.00 \\ 10.30 \\ 20.00 \\ 20.75 \\ 20.00 \\ 21.50 \\ \end{array} $	$5.03 \\ 5.79 \\ 10.00 \\ 10.30 \\ 10.00 \\ 8.61 \\ $	$\begin{array}{c} 30.08\\ 30.83\\ \hline 60.00\\ 55.38\\ 60.24\\ 56.35\\ \end{array}$	International 10-10-10 Fertilizer Guara	$\begin{array}{c} \text{interval}\\ 28\\ 419\\ 1277\\ 1561\\ 1755\\ 2509 \end{array}$	$10.00 \\ 6.47 \\ 9.86 \\ 8.89 \\ 9.59 \\ 9.24 \\ 10.80$	$10.00 \\ 10.87 \\ 10.62 \\ 11.56 \\ 11.80 \\ 12.48 \\ 12.45$	$10.00 \\ 11.12 \\ 8.49 \\ 7.50 \\ 10.00 \\ 10.36 \\ 8.80$	48.00 39.13 47.42 45.04 48.93 48.91 52.62
	$906 \\ 971 \\ 1052 \\ 1146 \\ 1151$	4.08 9.32 9.22 9.48	$\begin{array}{r} 14.56 \\ 20.00 \\ 20.75 \\ 20.50 \end{array}$	$9.35 \\ 9.78 \\ 10.22 \\ 10.22$	$35.32 \\ 57.83 \\ 58.69 \\ 59.17$	International 12-12-12 Fertilizer Guara		12.00 8.20	12.00 11.81	12.00 11.44	57.60 45.64
	$1151 \\ 1264 \\ 1425 \\ 1888 \\ 1900 \\ 2365 \\ 2463 \\ 2472 \\ 2472 \\ 2478 \\ 2483 \\ 2500 \\ 2513 \\ 2849 \\ 1000 \\ 2513 \\ 2849 \\ 1000 \\ 2513 \\ 2849 \\ 1000 \\ 2513 \\ 2849 \\ 1000 \\ 2513 \\ 2849 \\ 1000 \\ 2513 \\ 2849 \\ 1000 \\ $	$\begin{array}{c} 10.00\\ 9.20\\ 8.64\\ 9.48\\ 10.00\\ 9.68\\ 10.00\\ 10.01\\ 10.06\\ 10.12\\ 8.40\\ 9.68\\ 10.02 \end{array}$	$\begin{array}{c} 20.25\\ 20.00\\ 17.30\\ 21.50\\ 20.15\\ 20.00\\ 21.25\\ 21.75\\ 20.50\\ 20.00\\ 21.29\\ 21.04\\ 22.61 \end{array}$	$\begin{array}{c} 10.58\\ 10.00\\ 8.82\\ 9.24\\ 10.00\\ 11.30\\ 10.00\\ 10.38\\ 9.44\\ 11.16\\ 9.13\\ 9.63\\ 9.92 \end{array}$	$\begin{array}{c} 60.65\\ 57.60\\ 51.97\\ 59.78\\ 60.18\\ 59.82\\ 61.50\\ 62.36\\ 60.44\\ 61.06\\ 56.23\\ 60.07\\ 63.14 \end{array}$	International 10-20-0 Ammoniate Guara	$\begin{array}{c} \text{nteed} \\ 27 \\ 420 \\ 606 \\ 659 \\ 889 \\ 1161 \\ 1271 \\ 1388 \\ 1398 \\ 1416 \end{array}$	$\begin{array}{c} 10.00\\ 8.60\\ 9.35\\ 7.59\\ 11.11\\ 10.48\\ 9.00\\ 9.10\\ 8.60\\ 9.02\\ 9.58\end{array}$	$\begin{array}{c} 20.00\\ 19.25\\ 19.56\\ 18.01\\ 20.25\\ 20.50\\ 20.75\\ 20.50\\ 20.54\\ 20.54\\ 20.82\\ 20.04 \end{array}$	$\begin{array}{c} 0.00\\$	54.00 48.90 51.52 44.38 57.63 56.04 51.90 51.90 50.45 52.04 52.04
	5-10-10 Guaranteed 2465	$\begin{array}{c} 5.00\\ 5.40\end{array}$	$\begin{array}{c} 10.00\\ 11.20\end{array}$	$\begin{array}{c} 10.00\\ 11.56\end{array}$	$\begin{array}{c} 33.00\\ 36.58\end{array}$		$ \begin{array}{r} 1421 \\ 1482 \\ 1535 \\ 1740 \\ 1765 \\ \end{array} $	$9.33 \\ 8.80 \\ 10.00 \\ 9.05 \\ 11.20$	$20.15 \\19.14 \\19.14 \\20.84 \\20.25$	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\end{array}$	52.17 49.37 52.97 52.16 57.90
Hi-Yield Brand 4-12-4	Guaranteed 1419 2466 2474 2511	$\begin{array}{r} 4.00 \\ 4.12 \\ 4.08 \\ 4.70 \\ 4.20 \end{array}$	$\begin{array}{c} 12.00 \\ 12.40 \\ 12.22 \\ 10.85 \\ 11.50 \end{array}$	$\begin{array}{r} 4.00 \\ 4.72 \\ 4.00 \\ 5.68 \\ 4.18 \end{array}$	$28.80 \\ 30.07 \\ 29.30 \\ 30.53 \\ 28.91$		$1857 \\1903 \\2087 \\2206 \\2251 \\2486 \\2507$	$\begin{array}{r} 9.27 \\ 10.02 \\ 9.12 \\ 11.28 \\ 9.34 \\ 9.80 \\ 8.80 \end{array}$	$\begin{array}{c} 20.14\\ 20.25\\ 20.72\\ 19.45\\ 20.17\\ 20.00\\ 21.54 \end{array}$	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	51.98 54.36 52.22 57.18 52.22 53.40 52.25
Hi-Yield 3-12-12 C	Guaranteed 909	$\substack{\textbf{3.00}\\\textbf{3.30}}$	$\begin{array}{c} 12.00\\ 10.47\end{array}$	$\substack{12.00\\4.04}$	$\substack{\textbf{30.60}\\\textbf{24.89}}$	00.22 in at 00.05 one then 21.62 in at 00.01 End 710 Chur arous Laters for the	2526 2549 2798	$ 10.16 \\ 7.68 \\ 9.20 $	$ 19.01 \\ 18.79 \\ 20.25 $	$0.00 \\ 1.70 \\ 0.00$	53.29 46.61 51.90
Hi-Yield Brand 16-20-0 C	Guaranteed 972	$\begin{array}{c} 16.00\\ 14.28\end{array}$	$\begin{array}{c} 20.00\\ 22.44\end{array}$	$0.00\\0.00$	72.00 69.77	International 5-10-5 Fertilizer Guara	nteed 65 69	$5.00 \\ 4.51 \\ 4.62$	$10.00 \\ 10.80 \\ 10.50$	$5.00 \\ 5.04 \\ 5.02$	30.00 29.51 29.47
Hi-Yield Brand 0-20-0	Guaranteed 574 580 1423 2505 2506	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	$\begin{array}{c} 20.00\\ 19.36\\ 20.25\\ 20.50\\ 21.25\\ 21.50\end{array}$	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\end{array}$	$\begin{array}{c} 24.00\\ 23.23\\ 24.30\\ 24.60\\ 25.50\\ 21.50\end{array}$		288 293 588 645 897 1032 1132 1168	$\begin{array}{r} 4.83 \\ 4.59 \\ 4.64 \\ 4.76 \\ 6.39 \\ 4.76 \\ 4.34 \\ 4.10 \end{array}$	$11.01 \\ 10.85 \\ 10.70 \\ 10.40 \\ 10.00 \\ 10.50 \\ 10.09 \\ 11.90$	$2.89 \\ 4.49 \\ 4.24 \\ 3.48 \\ 5.41 \\ 4.65 \\ 3.19 \\ 3.97$	$\begin{array}{r} 29.44\\ 29.48\\ 29.30\\ 28.85\\ 34.42\\ 29.67\\ 27.04\\ 28.96\end{array}$
International Minerals & Chem International 0-14-14 Phosp G			Ft. Wort 14.00 13.39	h, Texas 14.00 10.73	25.20 22.51		$ \begin{array}{r} 1172 \\ 1255 \\ 1433 \\ 1485 \\ 1512 \end{array} $	$5.00 \\ 5.00 \\ 5.00 \\ 5.00 \\ 5.22$	$12.31 \\ 11.69 \\ 11.30 \\ 12.00 \\ 10.60$	$\begin{array}{r} 4.05 \\ 2.98 \\ 5.01 \\ 3.68 \\ 5.14 \end{array}$	32.20 30.82 31.57 31.61 31.46
International 15-15-0 Ammo	niated Phos suaranteed 88 573 952 959 1006 1285 1389 1403 1412 1431 1457 1481 1457 1715 1725 1766 1769 1829	sphate 15,00 16,06 14,81 13,18 15,46 13,43 13,24 13,91 14,55 14,64 14,34 15,00 13,52 14,62 14,32 14,62 14,62 14,62 14,62 14,62 14,62 14,62 14,62	$\begin{array}{c} 15.00\\ 12.56\\ 15.00\\ 18.83\\ 17.88\\ 15.00\\ 17.66\\ 18.00\\ 16.47\\ 16.50\\ 16.30\\ 16.00\\ 16.00\\ 17.15\\ 15.71\\ 16.47\\ 17.88\\ 15.30\\ 14.65\\ \end{array}$	$\begin{array}{c} 0.00\\$	$\begin{array}{c} 63.00\\ 63.25\\ 62.43\\ 62.14\\ 64.38\\ 61.48\\ 61.48\\ 61.32\\ 61.49\\ 63.45\\ 63.45\\ 63.45\\ 62.82\\ 64.20\\ 61.14\\ 61.81\\ 63.62\\ 62.32\\ 60.60\\ 63.06\end{array}$		$\begin{array}{r} 1528\\ 1530\\ 1534\\ 1536\\ 1538\\ 1542\\ 1560\\ 1584\\ 1845\\ 2026\\ 2084\\ 2098\\ 2193\\ 2252\\ 2262\\ 2262\\ 22345\\ 2370\\ 2517\\ 22524\\ 2532 \end{array}$	$\begin{array}{c} 4.80\\ 4.78\\ 5.00\\ 5.00\\ 5.34\\ 4.50\\ 5.02\\ 5.02\\ 5.03\\ 5.06\\ 5.02\\ 5.03\\ 5.00\\ 5.04\\ 5.12\\ 4.80\\ 5.52\\ 4.30\\ 5.51\\ \end{array}$	$\begin{array}{c} 10.60\\ 10.90\\ 10.34\\ 10.10\\ 11.85\\ 12.10\\ 11.21\\ 10.00\\ 10.00\\ 11.30\\ 11.50\\ 10.90\\ 10.02\\ 9.34\\ 15.37\\ 10.96\\ 9.80\\ 10.97\\ 10.60\\ 10.00\\ \end{array}$	$\begin{array}{r} 4.19\\ 5.30\\ 3.55\\ 5.36\\ 3.81\\ 4.20\\ 4.32\\ 5.60\\ 8.46\\ 2.45\\ 3.34\\ 5.65\\ 7.72\\ 5.18\\ 2.99\\ 7.82\\ 5.02\\ 3.24\\ 6.88\end{array}$	$\begin{array}{c} 29.63\\ 30.60\\ 29.50\\ 31.75\\ 32.04\\ 31.93\\ 31.40\\ 32.15\\ 29.14\\ 30.12\\ 32.63\\ 30.08\\ 32.21\\ 30.08\\ 32.21\\ 30.08\\ 32.21\\ 30.98\\ 32.74\\ 32.63\\ 32.89\\ 32.74\\ 32.66\\ \end{array}$

		1	1	<u> </u>	1	<u> </u>					1	1
	, place of business d brand	Laboratory number	Nitrogen, percent	Available ' phosphoric acid, percent	P'otash, percent	Valuation found per ton, dollars	Manufacturer, place of business and brand	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	P'otash, percent	Valuation found per ton, dollars
International	5-10-5 Fertilizer			-			<u>e de la Alemany en en el estadore de la a</u>	1774	15.62	20.02	0.00	70.88
	10-20-10 Fertilize		5.06 5.58 5.28 5.50 5.30 4.80 4.80 5.26 5.30 4.80 5.26 5.30 4.80 5.28 5.50 5.30 4.80 5.28 5.20 5.20 5.30 4.80 5.20 5.00 5.00	$\begin{array}{c} 12.24\\ 13.95\\ 11.00\\ 11.71\\ 9.71\\ 10.90\\ 11.14\\ 10.30\\ 10.10\\ 10.30\\ 9.77\\ \end{array}$	5.78 5.69 5.81 4.30 3.51 5.85 6.38 4.19 5.50	33.34 36.89 33.19 33.81 31.64 31.56 29.87 30.27 31.73 30.83 30.02	 41.95、 31.34、 49.01 7 1.55、 34.35 45.75、 31.34、 49.01 7 1.55、 34.34、 43.35 45.75、 43.75、 43.75 45.75、 43.75 45.75 4	$1776 \\ 1781 \\ 1800 \\ 1833 \\ 1841 \\ 1846 \\ 2085 \\ 2099 \\ 2152 \\ 2160 \\ 2249 \\ 2337 \\ 2534 \\ 1000 \\ $	$14.84 \\ 16.29 \\ 15.38 \\ 14.97 \\ 12.56 \\ 14.23 \\ 12.68 \\ 15.37 \\ 10.52 \\ 13.58 \\ 15.16 \\ 14.90 \\ 12.82 \\$	$\begin{array}{c} 20.67\\ 21.00\\ 22.42\\ 21.61\\ 21.21\\ 26.44\\ 20.00\\ 20.75\\ 21.39\\ 21.00\\ 20.20\\ 20.00\\ 21.75\\ \end{array}$	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 1.08\\ 0.00 \end{array}$	$\begin{array}{c} 69.32\\ 74.07\\ 73.04\\ 70.84\\ 63.13\\ 74.42\\ 62.09\\ 71.01\\ 57.23\\ 65.94\\ 69.72\\ 69.35\\ 64.56\end{array}$
	Gua	ranteed 24 64	$ \begin{array}{r} 10.00 \\ 9.08 \\ 7.45 \end{array} $	$20.00 \\ 20.30 \\ 18.47$	$10.00 \\ 10.50 \\ 6.65$	$ \begin{array}{r} 60.00 \\ 57.90 \\ 48.50 \end{array} $		$\begin{array}{c} 2544\\ 2773\end{array}$	$\begin{array}{c} 16.04\\ 13.84 \end{array}$	$\begin{array}{c} 20.50\\ 20.50\end{array}$	$\begin{array}{c} 0.00\\ 0.00\end{array}$	$\begin{array}{c} 72.72\\ 66.24\end{array}$
		$ \begin{array}{r} 84\\ 478\\ 540\\ 583\\ 589\\ 607\\ 634 \end{array} $	9.368.949.308.649.2310.049.02	$\begin{array}{c} 10.41\\ 20.10\\ 21.25\\ 23.06\\ 21.25\\ 21.25\\ 20.50\\ 20.50\end{array}$	$\begin{array}{r} 9.48 \\ 10.08 \\ 9.16 \\ 8.10 \\ 8.59 \\ 10.00 \\ 10.60 \end{array}$	57.89 58.37 61.07 56.28 58.34 60.72 58.02	International 8-32-0 Ammoniat Guai	ed Phosj anteed 575 1387 2141	phate 8.00 8.04 8.34 8.44	32.00 24.48 32.24 32.16	$0.00 \\ 7.88 \\ 0.00 \\ 0.00$	$62.40 \\ 58.22 \\ 63.71 \\ 63.91$
		$\begin{array}{c} 653\\ 966\\ 1019\\ 1181\\ 1169\\ 1256\\ 1381\\ 1422\\ 1724\\ 1933\\ 1939\\ 2027\\ 2076\\ 2076\\ 2027\\ 2076\\ 2027\\ 2025\\ 2$	$\begin{array}{c} 9.02\\ 9.04\\ 10.04\\ 9.26\\ 9.19\\ 9.26\\ 9.19\\ 9.27\\ 9.27\\ 9.27\\ 9.27\\ 9.27\\ 9.27\\ 9.28\\ 10.00\\ 8.52\\ 9.02\\ 9.48\\ 10.06\\ 10.24\\ 9.16\\ 10.24\\ 9.16\\ 10.24\\ 9.06\\ 6.86\\ 6.86\\ 6.96\\ 9.204\\ 9.04\\ 6.00\\ 10.20\\ 9.76\\ 10.20\\ 9.60\\ \end{array}$	$\begin{array}{c} 20.30\\ 21.25\\ 21.75\\ 23.05\\ 21.54\\ 23.01\\ 22.12\\ 21.75\\ 22.12\\ 21.75\\ 23.94\\ 21.00\\ 26.81\\ 24.55\\ 24.55\\ 25.56\\ 21.25\\ 20.50\\ 25.57\\ 23.50\\ 25.57\\ 23.50\\ 28.59\\ 29.12\\ 23.12\\ 23.12\\ 23.05\\ 23.05\\ 22.75\\ 21.25\\ 21.25\\ 21.70\\ \end{array}$	$\begin{array}{c} 10.60\\ 9.58\\ 9.51\\ 7.43\\ 9.60\\ 9.04\\ 9.03\\ 6.20\\ 8.82\\ 10.00\\ 8.38\\ 9.24\\ 7.43\\ 8.24\\ 7.43\\ 8.24\\ 9.54\\ 8.24\\ 8.24\\ 8.24\\ 8.24\\ 8.24\\ 8.24\\ 8.24\\ 8.24\\ 8.24\\ 8.24\\ 8.24\\ 8.24\\ 8.24\\ 8.50\\ 8.82\\ 8.82\\ 8.82\\ 8.96\\ 10.04\\ 8.50\\ 10.04\\ 1$	$\begin{array}{c} 58.36\\ 58.36\\ 59.90\\ 59.18\\ 60.16\\ 59.47\\ 57.63\\ 61.20\\ 62.76\\ 62.06\\ 62.39\\ 61.20\\ 62.66\\ 62.39\\ 61.68\\ 61.90\\ 63.71\\ 63.86\\ 61.90\\ 63.71\\ 63.86\\ 61.90\\ 60.55\\ 54.69\\ 60.55\\ 59.60\\ 51.41\\ 62.96\\ 61.81\\ 62.96\\ 61.81\\ 64.72\\ 60.86\\ \end{array}$	International 20% Superphospi Guar	$\begin{array}{c} \text{atted} \\ & \text{atted} \\ & \text{62} \\ & \text{81} \\ & \text{89} \\ & \text{541} \\ & 567 \\ & 576 \\ & 576 \\ & 576 \\ & 578 \\ & 849 \\ & 1134 \\ & 1157 \\ & 1397 \\ $	$\begin{array}{c} 0.00\\$	$\begin{array}{c} 20.00\\ 20.30\\ 20.40\\ 20.75\\ 18.82\\ 20.00\\ 21.00\\ 21.00\\ 20.50\\ 20.50\\ 20.50\\ 20.35\\ 21.75\\ 20.25\\ 21.75\\ 20.75\\ 21.75\\ 21.25\\ 21.50\\ 21.50\\ 21.50\\ 21.50\\ \end{array}$	$\begin{array}{c} 0.00\\$	$\begin{array}{c} 24.00\\ 24.36\\ 24.40\\ 24.49\\ 22.58\\ 24.00\\ 25.20\\ 25.20\\ 25.20\\ 25.20\\ 25.80\\ 24.60\\ 24.40\\ 25.80\\ 24.60\\ 24.42\\ 26.10\\ 26.06\\ 24.60\\ 24.60\\ 24.60\\ 26.10\\ 26.50\\ 25.50\\ 25.80\\ 25$
International	5-10-10 Fertilizer Guar	ranteed	5.00	10.00	10.00	33.00	International 47% Superphosph Guar	ate anteed 2359	0.00	47.00 44.26	$0.00 \\ 0.00$	56.40 53.11
	8-24-8 Fertilizer	2371 ranteed 1018 1031 1129 1133 1294 1513 1580 2192 2537 2548 2771 2800 2805	5.22 4.00 3.60 3.88 4.38 3.58 4.22 3.82 4.41 4.00 4.10 4.00 4.02 4.50 8.00	10.40 12.00 12.36 11.17 12.00 12.00 12.30 12.30 12.40 11.50 12.20 12.20 12.20 12.20	$\begin{array}{c} 11.61\\ 4.00\\ 3.71\\ 3.46\\ 4.30\\ 3.36\\ 4.02\\ 3.69\\ 4.06\\ 4.63\\ 4.85\\ 4.38\\ 4.00\\ 3.70\\ 4.02\\ \end{array}$	35.11 28.80 27.86 27.12 30.36 27.16 27.16 27.85 29.63 28.66 30.89 28.71 29.93 28.71 29.93 28.44 28.92 30.55	International Multiple 50% Su Guar			$\begin{array}{c} 50.00\\ 48.12\\ 50.74\\ 50.00\\ 49.16\\ 49.57\\ 49.59\\ 48.00\\ 49.19\\ 49.17\\ 49.54\\ 50.02\\ 50.59\\ 50.40\\ 51.41\\ 51.45\\ \end{array}$	$\begin{array}{c} 0.00\\$	$\begin{array}{c} 60.00\\ 57.74\\ 60.89\\ 60.00\\ 58.99\\ 59.48\\ 59.51\\ 57.60\\ 59.03\\ 59.00\\ 59.48\\ 60.02\\ 60.02\\ 60.71\\ 60.48\\ 61.69\\ 61.74\\ \end{array}$
International	3-12-12 Fertilizer	anteed 1138 2775 anteed 304	8.00 7.62 6.32 3.00 3.11	24.00 22.56 20.69 12.00 12.79	8.00 9.15 6.23 12.00 10.23	57.60 55.42 47.53 30.60 30.82	International Rainbow 7-14-7 F Guar	anteed 86 470 890 1293	7.00 7.12 6.65 6.24 6.52 7.00	$14.00 \\ 14.10 \\ 14.00 \\ 14.20 \\ 14.70 \\ 14.05$	$7.16 \\ 7.86 \\ 7.42 \\ 6.00$	42.00 42.58 41.47 40.21 40.80
International	16-20-0 Ammoniat Guar	anteed 1130 1262 1276 1390 1483 1524 1541	$16.00 \\13.58 \\14.30 \\14.72 \\15.06 \\14.66 \\14.70 \\14.64$	$\begin{array}{c} 20.00\\ 22.67\\ 22.25\\ 21.84\\ 21.52\\ 21.75\\ 21.10\\ 21.00\\ \end{array}$	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	$\begin{array}{c} 72.00\\ 67.94\\ 69.60\\ 70.37\\ 71.00\\ 70.08\\ 69.42\\ 69.12\\ \end{array}$		$1417 \\ 1484 \\ 1583 \\ 1946 \\ 2075 \\ 2097 \\ 2194 \\ 2207 \\ 2368 \\ 2533 \\$	$7.00 \\ 6.73 \\ 7.00 \\ 7.00 \\ 6.05 \\ 7.20 \\ 7.20 \\ 7.28 \\ 6.20 \\ 6.70 $	$\begin{array}{c} 14.05\\ 14.76\\ 14.10\\ 14.10\\ 14.67\\ 14.00\\ 14.50\\ 14.20\\ 14.40\\ 14.57\end{array}$	$7.64 \\ 7.58 \\ 7.60 \\ 7.78 \\ 7.08 \\ 6.74 \\ 7.22 \\ 7.52 \\$	42.29 42.49 42.47 42.48 40.42 42.65 42.50 43.21 40.39 42.23
		$1546 \\ 1586 \\ 1637 \\ 1721 \\ 1768$	$14.15 \\ 16.52 \\ 14.45 \\ 13.76 \\ 13.64$	$21.17 \\ 20.00 \\ 21.32 \\ 22.00 \\ 21.63$	$\begin{array}{c} 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \end{array}$	67.85 73.56 68.93 67.68 66.88	International Minerals & Chem. C International 0-14-7 Phosphate Guar:	orp., Te: & Potash inteed 11	xarkana 1 0.00 0.00	, TexA 14.00 14.10	7.00	21.00 21.65

Manufacturer, place of business and brand	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	F'otash, percent	Valuation found per ton, dollars	Mauntacturer blace of program of the process and provide acid, percent Protect acid, percent Valuation Valuation
International 0-16-8 Phosphate & Guara	Potas nteed 471 1103	h 0.00 0.00 0.00	16.00 16.16 17.50	8.00 8.10 8.03	24.00 24.25 25.82	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
International 8-8-8 Fertilizer Guara	1044 1085 1093	8.00 7.68 8.37 7.80 8.06 8.04 8.20	8.00 8.50 12.00 8.30 8.30 8.80 8.50	8.00 8.01 9.69 8.16 8.04 8.48 8.02	38.40 38.04 45.32 38.26 38.96 39.77 39.61	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
•	$1250 \\ 1969 \\ 1975 \\ 1984 \\ 1995$	7.86 7.50 7.15 7.26 8.08	8.30 8.40 9.14 8.90 8.50	8.24 8.16 7.42 8.00 8.02	38.48 37.48 36.87 37.26 39.25	International 5-10-10 Fertilizer ["] Guaranteed 5.00 10.00 10.00 33 1970 5.08 10.50 10.00 33 2603 5.04 10.30 10.00 33 2652 5.16 11.20 10.08 34
	2059 2300 2308 2390 2595 2597	7.78 8.02 8.00 7.62 8.02 8.26 8.26	9.50 8.70 8.40 8.60 8.50 8.70	7.81 8.24 8.08 8.00 7.84 8.02	39.43 39.44 38.93 37.98 38.96 40.03 28.04	International 3-12-12 Fertilizer Guaranteed 3.00 12.00 12.00 30 10 3.01 12.00 12.79 31 362 3.04 12.20 12.10 31 442 3.16 12.20 12.40 31 898 3.02 12.00 13.44 31
	$2640 \\ 2657 \\ 2680 \\ 2708 \\ 2716$	8.02 7.77 7.54 8.04 7.62	8.40 8.90 9.40 8.60 8.20	$8.00 \\ 8.00 \\ 8.60 \\ 8.18 \\ 8.44$	38.94 38.79 39.06 39.35 37.76	International 6-8-12 Fertilizer Guaranteed 6.00 8.00 12.00 34 2058 5.78 9.27 11.64 38 2299 5.84 9.10 11.62 38 2461 6.70 11.31 11.56 40
International 12-12-12 Fertilizer Guara	990 1904 1983	$12.00 \\ 12.31 \\ 10.98 \\ 11.30$	$\begin{array}{c} 12.00 \\ 12.20 \\ 13.27 \\ 12.60 \end{array}$	$12.00 \\ 12.00 \\ 10.75 \\ 11.43$	57.60 58.77 55.31 55.88	International 20% Superphosphate Guaranteed 0.00 20.00 0.00 24 1104 0.00 20.75 0.00 24 International Multiple Superphosphate 50%
	$2055 \\ 2242 \\ 2366 \\ 2672$	$\begin{array}{c} 12.04 \\ 11.37 \\ 12.02 \\ 10.88 \end{array}$	$12.30 \\ 11.65 \\ 13.40 \\ 13.70$	$12.00 \\ 12.02 \\ 12.60 \\ 12.30$	58.08 55.30 59.70 56.46	$\begin{array}{ccccc} {\rm Guaranteed} & 0.00 & 50.00 & 0.00 & 60 \\ 63 & 0.00 & 50.06 & 0.00 & 60 \\ 85 & 0.00 & 50.79 & 0.00 & 60 \\ 522 & 0.00 & 51.65 & 0.00 & 61 \end{array}$
International 10-20-0 Ammoniate Guara		sphate 10.00 10.40 10.02 10.72	$20.00 \\ 20.25 \\ 20.00 \\ 20.00$	$0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00$	$54.00 \\ 55.50 \\ 54.06 \\ 56.16$	577 0.00 51.21 0.00 61 616 0.00 50.59 0.00 60 618 0.00 50.61 0.00 60 Jacksonville Fertilizer Co., Jacksonville, Texas Chief Brand 0-14-7 Fertilizer
International 5-10-5 Fertilizer		5.00	10.00	5.00		Guaranteed 0.00 14.00 7.00 21 292 .36 12.82 6.65 20
Guara	nteed 9 207 268 356	$5.00 \\ 4.67 \\ 5.10 \\ 5.18 \\ 5.17$	$10.00 \\ 10.60 \\ 10.20 \\ 10.20 \\ 10.30$	$5.00 \\ 5.55 \\ 5.66 \\ 5.18 \\ 5.63$	30.00 30.06 30.94 30.88 31.25	Chief Brand 8-8-8 Fertilizer Guaranteed 8.00 8.00 8.00 8 1941 7.70 9.10 6.61 37
	$361 \\ 948 \\ 1045 \\ 1069$	$5.10 \\ 5.30 \\ 5.70 \\ 5.17$	$10.10 \\ 10.00 \\ 11.00 \\ 10.20$	5.37 5.27 5.72 5.04	$30.64 \\ 31.06 \\ 33.73 \\ 30.77$	Chief Brand 10-20-10 Fertilizer Guaranteed 10.00 20.00 10.00 60 1942 9.47 19.50 9.68 57 2408 9.72 20.25 8.28 58
	$ 1086 \\ 1094 \\ 1102 \\ 1206 \\ 1251 $	$5.00 \\ 5.00 \\ 5.10 \\ 5.12 \\ 5.30$	$10.30 \\ 10.30 \\ 10.30 \\ 10.70 \\ 10.40$	$5.10 \\ 5.08 \\ 5.00 \\ 5.41 \\ 5.25$	$30.42 \\ 30.41 \\ 30.66 \\ 31.45 \\ 31.53$	Chief Brand 5-10-10 Fertilizer Guaranteed 5.00 10.00 10.00 33 2377 5.42 10.60 7.28 33
	$ 1879 \\ 1971 \\ 2047 \\ 2060 $	$5.04 \\ 5.32 \\ 5.06 \\ 4.80$	$10.20 \\ 10.10 \\ 10.40 \\ 10.10$	$5.11 \\ 5.55 \\ 5.18 \\ 5.19$	$30.43 \\ 31.41 \\ 30.77 \\ 29.63$	Chief Brand 4-12-4 Fertilizer Guaranteed 4.00 12.00 4.00 28 265 4.24 12.14 4.78 30 1915 4.32 11.16 4.95 29
	$\begin{array}{r} 2302 \\ 2309 \\ 2586 \\ 2591 \\ 2594 \end{array}$	5.14 5.20 5.06 5.24 5.44	$10.00 \\ 10.50 \\ 10.20 \\ 10.20 \\ 11.00$	5.85 5.65 5.25 5.09 5.19	$30.93 \\ 31.59 \\ 30.57 \\ 31.01 \\ 32.63$	Chief Brand 3-12-12 Fertilizer Guaranteed 3.00 12.00 12.00 30 2840 3.40 12.00 10.64 30
	$\frac{2658}{2681}$	$5.26 \\ 5.37 \\ 5.33 \\ 5.20 \\ 5.20 \\ $	$11.30 \\ 10.50 \\ 10.00 \\ 10.00$	$5.18 \\ 5.46 \\ 6.91 \\ 5.01$	$32.45 \\ 31.99 \\ 32.14 \\ 30.61$	Chief Brand 10-5-5 Fertilizer Guaranteed 10.00 5.00 5.00 39 2409 9.06 6.47 4.55 37 Groso Brand 8-8-8 Fertilizer
International Rainbow 7-14-7 Fe	2707 2715 2725 2745		$10.40 \\ 10.00 \\ 10.20 \\ 10.50$	$5.28 \\ 5.23 \\ 5.49 \\ 5.66$	$31.34 \\ 31.22 \\ 31.13 \\ 32.62$	$\begin{array}{c ccccc} Guaranteed & 8.00 & 8.00 & 8.00 & 38 \\ 1948 & 8.06 & 8.80 & 7.20 & 39 \\ 2321 & 7.24 & 9.36 & 6.64 & 36 \\ 2375 & 7.04 & 9.56 & 7.18 & 36 \\ 2718 & 6.64 & 9.01 & 8.24 & 35 \end{array}$
Guara			$\begin{array}{c} 14.00\\ 14.30\\ 14.00\\ 14.00\\ 14.14\\ 14.55\\ 14.26\\ 14.10\\ \end{array}$	$7.00 \\ 7.09 \\ 7.59 \\ 8.00 \\ 7.50 \\ 7.22 \\ 7.14 \\ 7.08$	$\begin{array}{r} 42.00\\ 42.71\\ 42.83\\ 41.70\\ 42.77\\ 42.79\\ 42.58\\ 42.59\end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
International 10-20-10 Fertilizer Guara		$10.00 \\ 8.12 \\ 10.16 \\ 9.39 \\ 10.00 \\ 10.02$	$20.00 \\ 18.02 \\ 20.21 \\ 21.55 \\ 20.25 \\ 20.75$	$10.00 \\ 8.98 \\ 11.14 \\ 10.10 \\ 10.86 \\ 10.00$	60.00 51.37 61.42 60.09 60.82 60.96	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	1000	10.04	-0.10	10.00	00100	2014 0.02 0.00 0.81 30

		1.1									
Manufacturer, place of business and brand	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	P'otash, percent	Valuation found per ton, dollars	Manufacturer, place of business and brand	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	P'otash, percent	Valuation found per
Groso Brand 6-12-6 Fertilizer	See.	-		-		19 	425	13.48	13.00	14.22	64.6
Guar	anteed 273 2376	$6.00 \\ 5.82 \\ 6.88$	$12.00 \\ 12.09 \\ 12.00$	$6.00 \\ 6.60 \\ 6.24$	35.93		$ \begin{array}{r} 432 \\ 490 \\ 493 \end{array} $	$ 13.70 \\ 13.52 \\ 13.64 $	$13.40 \\ 13.40 \\ 13.20$	$13.76 \\ 13.58 \\ 13.58 \\ 13.58$	65.4 64.7 64.9
Kelly, Weber & Co., Inc., Lake C	2719	6.14	11.10	6.01	35.35		495 514	$13.56 \\ 13.36$	$\begin{array}{r}13.40\\13.66\end{array}$	$\begin{array}{r}13.82\\13.86\end{array}$	65.0 64.7
Weber-King Brand Fertilizer Sp	pecial 8 anteed 1296 1311 1332	-8-8 8.00 7.60 7.51 7.30	8.00 8.90 8.90 8.60	8.00 8.50 8.16 8.60	38.40 38.58 38.11 37.38	[143] 113 113 113 113 113 113 113 113 113 1	664 704 739 • 755 904 911	$13.40 \\13.32 \\13.58 \\12.72 \\13.53 \\13.32$	$13.20 \\ 13.00 \\ 13.30 \\ 13.40 \\ 13.00 \\ 13.4$	$13.44 \\13.87 \\13.44 \\15.55 \\13.18 \\14.00$	64.1 63.8 64.7 63.5 64.1 64.4
Weber-King Brand Fertilizer Sp	pecial 5 anteed	-10-5 5.00	10.00	5.00	30.00	10.45 20.5 20.4 40.4 40.4 40.4 40.4 40.4 40.4 40.4	933 1040	$13.52 \\ 13.08$	$\begin{array}{c} 13.10\\ 13.30\end{array}$	$\begin{array}{r} 13.44\\ 13.38\end{array}$	64.34 63.23
	134 1240 1297 1307 1334	5.04 4.80 5.01 5.32 4.80	$ \begin{array}{r} 10.00 \\ 10.00 \\ 10.90 \\ 10.40 \\ 10.06 \end{array} $	5.00 5.32 5.64 5.87 5.29 5.48	30.31 29.78 31.63 31.61 29.76		$ 1081 \\ 1108 \\ 1166 \\ 1199 \\ 1203 \\ 1203 $	$13.56 \\ 13.44 \\ 13.00 \\ 13.60 \\ 13.3$	$13.10 \\ 13.50 \\ 13.00 \\ 13.50 \\ 13.20 \\ 13.20 \\ 13.20 \\ 13.20 \\ 13.20 \\ 10.2$	$12.67 \\13.18 \\13.44 \\13.44 \\13.14 \\13.14 \\$	64.00 64.40 62.60 65.00 63.62
Weber-King Brand Fertilizer Sr			10.00	0.40	20.10		$1237 \\ 1322 \\ 1341$	$13.10 \\ 13.66 \\ 13.00$	$13.10 \\ 13.00 \\ 14.50$	$13.44 \\ 13.44 \\ 14.76$	63.08 64.64 65.26
	anteed 1333	9.00 9.16	$\begin{array}{c} 18.00\\ 18.25 \end{array}$	9.00 8.57	54.00 54.52		$\begin{array}{r}1351\\1374\end{array}$	$\begin{array}{r}13.29\\13.60\end{array}$	$\begin{array}{c} 13.70\\ 13.00 \end{array}$	$\begin{array}{c} 13.24\\ 13.44\end{array}$	64.25 64.46
Weber-King Brand Fertilizer Sp Guara	ecial 4- anteed	12-4 4.00	12.00	4.00	28.80		1515 1612 1617	$13.24 \\ 13.54 \\ 13.40$	$13.00 \\ 13.50 \\ 13.00$	$14.36 \\ 14.16 \\ 14.00$	63.94 65.32 64.20
	$\begin{array}{c}1241\\1335\end{array}$	$\begin{array}{c} 4.00\\ 4.09\end{array}$	$\begin{array}{c} 12.00\\ 12.20\end{array}$	$\begin{array}{r} 4.52 \\ 4.59 \end{array}$	$29.11 \\ 29.66$	ALAR BER DE HAR SA	$\begin{array}{r}1628\\1646\end{array}$	$\begin{array}{c} 12.67\\ 13.29 \end{array}$	$\begin{array}{r}13.60\\14.50\end{array}$	$\begin{array}{c} 14.00\\ 12.74 \end{array}$	62.73 64.91
Kipfer Chemical Co., Rio Hondo, K-W Brand Sulphate of Ammon							$ \begin{array}{r} 1652 \\ 1655 \\ 1665 \end{array} $	$13.44 \\ 13.08 \\ 13.52$	$ \begin{array}{r} 13.30 \\ 13.20 \\ 13.00 \end{array} $	$ \begin{array}{r} 13.98 \\ 13.78 \\ 13.78 \end{array} $	$64.67 \\ 63.35 \\ 64.43$
Guara	anteed 327	$\begin{array}{c} 20.50\\ 20.62 \end{array}$	$\begin{array}{c} 0.00\\ 0.00\end{array}$	0.00	61.50 61.86		$\begin{array}{r}1675\\1682\end{array}$	$\begin{array}{r}13.36\\13.29\end{array}$	$\begin{array}{r}13.40\\13.00\end{array}$	$13.78 \\ 13.12$	64.43 63.34
Kipfer Chemical Company, Harlin Garden-Gro Brand 5-10-5	gen, Te	xas				· · · · · · · · · · · · · · · · · · ·	$1692 \\ 1698 \\ 1708$	$\frac{13.30}{13.67}\\13.20$	$14.00 \\ 14.20 \\ 14.10$	$14.26 \\ 13.78 \\ 13.44$	65.26 66.32 64.58
Guara	nteed 756	$5.00 \\ 5.63$	$\begin{array}{c} 10.00\\ 9.13 \end{array}$	$5.00 \\ 5.43$	$\begin{array}{c} 30.00\\ 31.10\end{array}$		1714 1717	$13.00 \\ 13.56$	13.00 13.50	$13.78 \\ 13.78 \\ 13.78$	62.87 65.15
Garden-Gro Brand 20% Superph Guara		0.00 0.00	$20.00 \\ 18.94$	0.00 0.00	$\begin{array}{c} 24.00\\ 22.73\end{array}$		$ 1852 \\ 1866 \\ 1957 \\ 2022 $	$13.84 \\ 13.40 \\ 13.32 \\ 13.12$	$13.00 \\ 13.00 \\ 13.20 \\ 13.00$	$13.44 \\ 12.54 \\ 13.96 \\ 13.18$	$65.18 \\ 63.32 \\ 64.18 \\ 62.87$
Lion Oil Co., El Dorado, Arkansa Lion Ammonium Nitrate Fertili:							$2094 \\ 2230 \\ 2354$	$13.28 \\ 12.60 \\ 13.32$	$13.80 \\ 14.70 \\ 13.70$	$ \begin{array}{r} 13.96 \\ 14.02 \\ 14.78 \end{array} $	64.78 63.85 65.27
Guara	307	33.50 33.60	0.00 0.00	$0.00 \\ 0.00$	$100.50 \\ 100.80$	s Anter ante dinar anter di	$\begin{array}{c} 2418\\ 2433 \end{array}$	$13.40 \\ 13.40$	13.80 13.30	$13.88 \\ 13.78$	65.09 64.43
	$308 \\ 520 \\ 851$	$33.60 \\ 33.74 \\ 33.51$	$0.00 \\ 0.00 \\ 0.00$	$0.00 \\ 0.00 \\ 0.00$	$100.80 \\ 101.22 \\ 100.53$	and and man the second of the second se	$2449 \\ 2488 \\ 2623$	$ \begin{array}{r} 13.68 \\ 13.08 \\ 13.40 \end{array} $	$13.60 \\ 13.70 \\ 13.10$	$ \begin{array}{r} 13.78 \\ 13.68 \\ 13.26 \end{array} $	65.63 63.89 63.88
걸린하는 이는 것을 알	873 1187	$33.68 \\ 33.88$	$\substack{0.00\\0.00}$	$\begin{array}{c} 0.00\\ 0.00\end{array}$	$\begin{array}{c} 101.04\\ 101.64\end{array}$		2697	13.12	13.50	14.20	64.08
Marshall Cotton Oil Co., Marshall,	2032 Texas	33.88	0.00	0.00	101.64	Mathieson Ammo-Phos 15-30-0 H Guara		d Fertil 15.00	lizer 30.00	0.00	81.00
Maverick Brand 0-14-14 Fertilize Guara	er nteed	0.00	14.00	14.00	25.20		684 1283	$\begin{array}{r} 15.12\\14.88\end{array}$	33.50 31.00	0.00 0.00	85.56 81.84
Maverick Brand 0-16-8 Fertilizer	376	0.00	15.64	9.48	24.46		$1444 \\ 1734 \\ 2155$	$15.16 \\ 15.24 \\ 15.04$	30.75 30.00 30.00	0.00	82.38 81.72 81.12
Guara	nteed 289	0.00	$16.00 \\ 15.72$	8.00 8.22	$\begin{array}{c} 24.00 \\ 23.80 \end{array}$		$\begin{array}{c} 2419\\ 2493 \end{array}$	$15.12 \\ 15.00$	$32.60 \\ 33.00$	0.00 0.00	84.48 84.60
	$537 \\ 601 \\ 1156$	$0.00 \\ 0.00 \\ 0.00$	$16.75 \\ 16.01 \\ 16.50$	$8.20 \\ 10.67 \\ 6.51$	25.02 25.61	Mathieren Amerik Dhar 10 00 10 1	2796	15.04	31.25	0.00	82.62
Maverick Brand 8-8-8 Fertilizer					23.71	Mathieson Ammo-Phos 10-20-10 I Guara		10.00 10.60	20.00 19.54		60.00 61.46
Guara	nteed 2225 2233	8.00 8.00 7.59	8.00 8.50	8.00 8.81	38.40 39.49		$\begin{array}{c} 70 \\ 108 \end{array}$	$\begin{array}{c} 10.00\\ 12.36 \end{array}$	$\begin{array}{c} 20.00\\ 20.50\end{array}$	11.01 7.66	60.61 66.28
Maverick Brand 5-10-5 Fertilizer		7.52	9.00	8.55	38.49		$\begin{array}{c}132\\141\\163\end{array}$	$10.92 \\ 10.03 \\ 10.44$	20.00	10.94	62.86 60.65 61.50
Guara	371	5.00 5.46	10.00 10.40	$5.00 \\ 5.90$	$30.00 \\ 32.40$		$\begin{array}{c} 211 \\ 237 \end{array}$	$\begin{array}{c} 10.40\\ 10.45\end{array}$	18.41	10.28	59.46 60.44
	$375 \\ 2227 \\ 2234$	$5.08 \\ 5.16 \\ 5.14$	$\frac{10.00}{10.00}\\10.00$	$5.02 \\ 5.02 \\ 5.05$	$30.25 \\ 30.49 \\ 30.45$		$243 \\ 254 \\ 264$	$10.27 \\ 10.14 \\ 10.40$	19.60	11.71	59.85 60.97 61.41
Maverick Brand 10-20-10 Fertilize	er						275 365	10.40 10.54 10.71	20.00	10.90	62.16 62.35
Guara	nteed 2226	10.00 10.04	$\begin{array}{c} 20.00\\ 20.00 \end{array}$	$\begin{array}{c} 10.00\\ 10.08 \end{array}$	60.00 60.17		436 460	$\begin{array}{c} 10.43\\ 10.06 \end{array}$	20.50 20.25	10.90 10.00	52.43 50.48
Maverick Brand 3-12-12 Fertilize Guara		$3.00 \\ 3.30$	$12.00 \\ 12.10$	$\begin{array}{c} 12.00\\ 12.46 \end{array}$	30.60 31.90	 (17.8) (10.1) (10.1) (10.1) (10.1) (10.1) (10.1) (10.1) (10.1) (10.1) (10.1) (10.1) (10.1) (10.1) (10.1) (10.1) (10.1) (10.1) (10.1) (10.1) (10.1) (10.1) (10.1) (10.1) (10.1) (10.1) (10.1) (10.1) (10.1) 	$467 \\ 521 \\ 551 \\ 629 \\ 675$	$10.72 \\ 10.80 \\ 10.64 \\ 10.66 \\ 10.40 $	19.54 19.39	11.19 (10.30 (10.14 (52.44 51.06 51.55 51.33
lin-Mathieson Chemical Corporatio	n, Pasa	dena, T	exas				$675 \\ 682 \\ 702$	$10.40 \\ 10.52 \\ 10.00$	19.52	10.20 e	51.22 1.10 9.74
Mathieson Ammo-Phos 13-13-13 J Guara	nteed	ed Ferti 13.00 12.74	13.00 13.20	$13.00 \\ 15.10$	62.40 63.12		797 905.	10.81 10.48	20.00 20.00	$ \begin{array}{cccc} 10.54 & 6 \\ 10.58 & 6 \end{array} $	2.75
	$\begin{array}{c} 129 \\ 223 \end{array}$	$13.44 \\ 13.40$	$14.00 \\ 13.60$	$14.00 \\ 14.40$	65.53 65.16		$910 \\ 934 \\ 943$	$10.80 \\ 10.54 \\ 10.73$	20.00	10.16 6	2.75 1.72 2.39
	276 287	$13.64 \\ 13.56$	$13.60 \\ 13.30$	$\begin{array}{c} 13.26\\ 13.16\end{array}$	65.20 65.14		954 991	$10.58 \\ 10.48$	18.25 20.00	10.12 5 10.20 6	9.71
anner to prove the second starts	372	13.20	13.20	14.42	64.09		1009	10.52			9.94

Manufacturer, place of business and brand	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	P'otash, percent	Valuation found per ton, dollars		placê of business brand	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	P'otash, percent	Valuation found per ton. dollars
Mathieson Ammo-Phos 10-20-10 I	Pelletiz 1039 1057 1080 1153 1202 1234 1279 1293 1254 1279 1293 1313 1345 1415 1416 1540 1677 1838 1927 2093 2187 2093 2187 2293 2224 2235 2279 2357 2415 2672 2696 2784 2825 2843	<u> </u>		$\begin{array}{ } 10.54\\ 10.78\\ 10.82\\ 11.64\\ 10.00\\ 10.54\\ 10.02\\ 10.09\\ 10.82\\ 9.59\\ 10.58\\ 10.22\\ 10.00\\ 11.40\\ 10.20\\ 11.40\\ 10.00\\ 11.40\\ 10.00\\ 11.40\\ 10.00\\ 11.40\\ 10.02\\ 10.64\\ 11.00\\ 10.64\\ 11.00\\ 10.64\\ 11.00\\ 10.64\\ 11.00\\ 10.64\\ 11.00\\ 10.64\\ 11.00\\ 10.64\\ 10.02\\ 11.80\\ 10.64\\ 10.02\\ 11.80\\ 10.92\\ 11.80\\ 10.92\\ 11.80\\ 10.92\\ 10.$	$\begin{array}{c} 59.78\\ 60.71\\ 61.60\\ 58.10\\ 61.74\\ 59.78\\ 60.67\\ 61.13\\ 58.22\\ 61.34\\ 60.23\\ 61.48\\ 60.95\\ 62.06\\ 63.54\\ 60.12\\ 61.74\\ 60.13\\ 61.62\\ 61.74\\ 60.13\\ 61.62\\ 61.74\\ 62.70\\ 62.70\\ 62.15\\ 62.59\\ 60.16\\ 63.48\\ 63.47\\ 61.46\\ 62.94\\ 63.36\\ 63.11\\ 64.64\\ 64.86\\ \end{array}$			$\begin{array}{c} 1312\\ 1340\\ 1347\\ 1850\\ 1855\\ 1862\\ 1870\\ 1875\\ 1875\\ 1875\\ 1875\\ 1875\\ 1875\\ 1875\\ 1875\\ 1875\\ 1445\\ 1456\\ 1456\\ 1456\\ 1555\\ 1577\\ 1605\\ 1577\\ 1605\\ 1677\\ 1603\\ 1625\\ 1647\\ 1644\\ 1651\\ 1551\\$	$\begin{array}{c} 12.40\\ 12.17\\ 12.13\\ 12.04\\ 12.33\\ 12.04\\ 12.33\\ 12.21\\ 12.26\\ 12.26\\ 12.38\\ 12.10\\ 12.38\\ 12.10\\ 12.12\\ 12.30\\ 12.12\\ 12.00\\ 12.41\\ 12.36\\ 12.40\\ 12.52\\ 12.40\\ 12.52\\ 12.40\\ 12.52\\ 12.21\\ 12.27\\ 12.20\\ 12.21\\ 12.27\\ 12.20\\ 12$	$\begin{array}{c} 25.25\\ 25.00\\ 25.25\\ 26.00\\ 25.50\\ 25.50\\ 25.50\\ 24.75\\ 25.25\\ 24.25\\ 24.25\\ 24.25\\ 25.00\\ 25.50\\ 25.27\\ 25.25\\ 24.25\\ 25.00\\ 25.27\\ 25.25\\ 24.25\\ 24.25\\ 24.25\\ 24.25\\ 24.25\\ 24.25\\ 24.25\\ 24.25\\ 25.00\\ 24.75\\ 25.00\\ 24.75\\ 25.00\\ 24.75\\ 25.00\\ 24.75\\ 24.25\\ 25.00\\ 24.25\\ 24.25\\ 24.25\\ 24.25\\ 24.25\\ 24.25\\ 24.25\\ 24.25\\ 24.25\\ 24.25\\ 24.25\\ 24.25\\ 24.25\\ 24.25\\ 25.00\\ 24.25\\ 24$	12.00 12.00 12.00 12.08 12.06 12.01 12.04 12.28 12.60 11.64 12.28 12.60 12.23 12.60 12.23 12.60 12.23 12.83 12.30 12.23 12.84 12.84 12.84 12.84 12.00 12.06 12.01 12.02 12	 74.7(73.7) 73.82 74.57 74.83 74.92 74.45 74.12 74.04 74.42 74.04 74.42 74.04 73.95 73.70 72.84 73.70 73.95 73.70 73.96 73.70 73.90 74.60 75.05 73.70 73.90 74.41 73.19 73.14 73.55 73.55 75 75 75 75 75 75 75 75 75 75 75 75 7
1athieson Ammo-Phos 12-24-12 J Guaraj	Pelletiz			$\begin{array}{c} 12.00\\ 12.42\\ 12.20\\ 12.88\\ 13.26\\ 12.30\\ 13.22\\ 13.45\\ 13.57\\ 12.14\\ 13.26\end{array}$	72.00 71.89 71.73 72.53 71.98 71.07 73.93 73.59 72.94 73.16 72.82			$1718 \\ 1839 \\ 1860 \\ 2014 \\ 2072 \\ 2176 \\ 2204 \\ 2470 \\ 2536 \\ 2551 \\ 2557 \\ 2786 \\ 2809 \\ 100$	$\begin{array}{c} 12.287\\ 12.245\\ 12.48\\ 12.24\\ 12.01\\ 12.24\\ 12.48\\ 12.40\\ 12.40\\ 12.00\\ 12.12\\ 12.80\\ 12.36\\ \end{array}$	24.25 24.25 24.25 24.25 24.75 25.50 24.75 25.25 25.25 25.00 25.00 25.00 25.00 25.00	$\begin{array}{c} 12.26\\ 12.24\\ 12.00\\ 12.15\\ 12.24\\ 12.96\\ 13.26\\ 12.60\\ 12.60\\ 13.12\\ 13.60\\ 12.60\\ 12.60\\ 12.60\\ 13.42 \end{array}$	74.165 73.65 73.51 75.28 74.58 75.30 75.07 74.16 74.82 75.96 75.13
	222 236 253 259 278 320 334 342	$12.02 \\11.85 \\12.40 \\12.08 \\12.25 \\12.05 \\12.00 \\12.24$	$\begin{array}{r} 25.07\\ 24.00\\ 24.25\\ 24.75\\ 24.13\\ 24.50\\ 24.00\\ 24.70\\ \end{array}$	$12.14 \\13.00 \\12.40 \\13.02 \\12.82 \\13.32 \\12.46 \\12.64$	$\begin{array}{c} 73.43 \\ 72.15 \\ 73.74 \\ 73.75 \\ 73.40 \\ 73.54 \\ 72.28 \\ 73.94 \end{array}$	Mathieson Am	mo-Phos 10-20-20 Guar	P'elletiz ranteed 512 1010 1324 1634 2417	ed Ferti 10.00 10.16 9.42 10.08 10.36 10.20	lizer 20.00 20.00 19.64 20.50 19.56 20.50	$\begin{array}{c} 20.00\\ 20.60\\ 22.24\\ 20.08\\ 18.77\\ 20.16\end{array}$	66.00 66.84 65.17 66.89 65.81 67.30
	364 384 392 398 431 476 484 489 494 502 511	$\begin{array}{c} 12.26\\ 12.12\\ 12.00\\ 12.16\\ 12.12\\ 12.00\\ 12.00\\ 12.12\\ 11.80\\ 12.04\\ 12.24 \end{array}$	$\begin{array}{c} 24.63\\ 25.00\\ 24.21\\ 24.00\\ 25.25\\ 24.00\\ 24.49\\ 24.71\\ 24.00\\ 25.19\\ 24.75\end{array}$	$\begin{array}{c} 12.76\\ 12.16\\ 13.70\\ 12.44\\ 12.56\\ 13.67\\ 12.92\\ 12.02\\ 13.06\\ 12.46\\ 13.59\end{array}$	$\begin{array}{c} 73.99\\ 73.66\\ 73.27\\ 72.74\\ 74.19\\ 73.00\\ 73.14\\ 73.22\\ 72.03\\ 73.82\\ 74.57\end{array}$		mo-Phos 10-30-10 Guar	Pelletize ranteed 169 179 227 864 1008 1840 2175 2183 2416	ed Ferti 10.00 11.12 10.88 10.55 10.48 10.48 10.48 10.40 10.32 10.36 10.80	lizer 30.00 29.08 30.20 31.50 30.50 31.50 31.50 31.50 31.50 33.39 30.75 32.26	$\begin{array}{c} 10.00\\ 12.23\\ 10.96\\ 11.80\\ 11.18\\ 11.38\\ 11.40\\ 11.24\\ 11.24\\ 12.16 \end{array}$	$\begin{array}{c} 72.00\\ 75.59\\ 75.46\\ 76.53\\ 74.75\\ 76.07\\ 75.84\\ 77.77\\ 74.72\\ 78.41\end{array}$
	519 528 587 681	$12.44 \\ 12.17 \\ 12.36 \\ 11.78 \\ 11.7$	24.40 25.00 24.61 24.00	$12.67 \\ 12.95 \\ 12.10 \\ 13.65$	74.20 74.28 73.87 72.33		mo-Phos 5-20-20	Pelletized anteed 2208	d Fertil 5.00 6.98	izer 20.00 20.50	20.00 22.70	51.00 59.16
	689 708 740 763 786 811	$12.46 \\ 12.08 \\ 12.38 \\ 12.32 \\ 12.04 \\ 12.45$	$\begin{array}{r} 25.00\\ 24.25\\ 24.85\\ 24.84\\ 24.76\\ 24.75\end{array}$	$12.00 \\ 12.42 \\ 12.32 \\ 10.15 \\ 13.18 \\ 12.00$	$\begin{array}{c} 74.58 \\ 72.79 \\ 74.35 \\ 72.86 \\ 73.74 \\ 74.25 \end{array}$		mo-Phos 16-8-8 P Guar		Fertiliz 16.00 16.08 16.07	er 8.00 8.60 8.90	8.00 8.38 8.76	$62.40 \\ 63.59 \\ 64.15$
	$\begin{array}{c} 816\\ 824\\ 853\\ 863\\ 882\\ 887\\ 903\\ 912\\ 966\\ 1025\\ 1037\\ 1105\\ 1173\\ 1235\\ 1261\\ 1280\\ 1298\\ \end{array}$	$\begin{array}{c} 11.50\\ 12.35\\ 12.20\\ 12.06\\ 11.87\\ 12.08\\ 12.08\\ 12.09\\ 12.09\\ 12.24\\ 12.05\\ 12.4\\ 12.05\\ 12.40\\ 12.02\\ 11.57\\ 12.28\\ 12.36\\ 12.36\\ 12.36\\ 11.70\\ 12.09\\ \end{array}$	$\begin{array}{c} 24.10\\ 25.00\\ 24.25\\ 24.25\\ 24.25\\ 25.25\\ 25.25\\ 24.25\\ 24.25\\ 24.50\\ 24.50\\ 24.25\\ 24.50\\ 24.25\\ 24.75\\ 24.75\\ 25.00\\ 23.25\\ 25.75\end{array}$	$\begin{array}{c} 15.28\\ 12.58\\ 12.64\\ 12.64\\ 13.44\\ 13.52\\ 13.52\\ 12.90\\ 13.14\\ 12.36\\ 12.36\\ 12.30\\ 12.30\\ 12.30\\ 12.30\\ 12.24\\ 11.84\\ 11.84\\ 11.84\\ 12.04 \end{array}$	$\begin{array}{c} 72.59\\ 74.60\\ 78.28\\ 73.04\\ 72.41\\ 74.65\\ 74.65\\ 74.65\\ 74.14\\ 72.37\\ 73.11\\ 73.88\\ 74.14\\ 72.37\\ 73.98\\ 72.60\\ 73.37\\ 72.60\\ 73.37\\ 71.06\\ 73.74\\ 75.14\\ 76.14\\ 70.10\\ 74.39\end{array}$		mo-Phos 16-20-0 Guar	$\begin{array}{c} {\rm Pelletize,}\\ {\rm anteed} \\ 34 \\ 72 \\ 93 \\ 82 \\ 97 \\ 99 \\ 109 \\ 111 \\ 124 \\ 128 \\ 140 \\ 147 \\ 150 \\ 154 \\ 159 \\ 164 \\ 159 \\ 164 \\ 171 \end{array}$	d Fertil 16.00 16.01 16.08 16.38 16.08 14.93 15.40 16.16 16.44 16.00 16.00 16.04 16.04 16.04 16.04 16.04 16.04 16.04 16.04 16.04 16.00 16.04 16.05 15.40 16.06 15.40 16.16 15.40 16.16 15.40 16.16 15.40 16.16 15.40 16.16 15.40 16.16 15.40 16.06 15.40 16.06 15.40 16.06 16.08 15.40 16.06 16.08 16.16 16.08 16.16 16.09 16.04 16.06	izer 20.00 20.50 20.20 20.71 20.71 20.71 20.71 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	$\begin{array}{c} 0.00\\$	$\begin{array}{c} 72.00\\ 72.03\\ 72.60\\ 73.99\\ 73.03\\ 71.43\\ 71.52\\ 72.48\\ 73.22\\ 72.60\\ 72.00\\ 72.12\\ 73.28\\ 74.40\\ 72.21\\ 73.44\\ \end{array}$

	1	1	1		1				1	
Manufacturer, place of business and brand	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	P'otash, percent	Valuation found per ton, dollars	Manufacturer, place of busine and brand	s Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent Valuation found per
Mathieson Ammo-Phos 16-20-0 F	elletized		izer	1		Section of the	1442	16.01	20.50	0.00 72.6
Mathieson Ammo-Phos 16-20-0 F	elletizec felletizec 174 180 225 2348 321 3354 354 354 355 393 3991 407 415 417 422 424 423 495 407 415 417 422 424 426 433 579 536 579 536 557 563 579 536 557 563 579 536 579 536 557 563 579 536 557 563 579 536 579 721 7718 725 729 730 772 731 754 778 1754 778 1754 785 806 812 822 841 845 845 845 845 841 845 841 845 841 845 841 845 841 845 841 845 841 845 841 845 841 845 841 845 841 845 841 845 841 845 845 841 845 841 845 841 845 841 845 841 845 841 845 841 845 841 845 841 845 841 845 841 845 845 841 845 845 841 845 845 845 845 845 845 845 845			$\begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $	$\begin{array}{c} 72.84\\ 73.14\\ 73.14\\ 73.26\\ 74.88\\ 73.26\\ 74.88\\ 72.00\\ 72.96\\ 72.96\\ 72.96\\ 72.96\\ 72.96\\ 72.96\\ 72.96\\ 72.96\\ 72.96\\ 72.96\\ 72.96\\ 72.96\\ 72.96\\ 72.96\\ 72.96\\ 72.96\\ 73.23\\ 73.23\\ 73.23\\ 73.23\\ 73.23\\ 73.23\\ 73.23\\ 73.23\\ 73.23\\ 73.20\\ 72.60\\ 72.96\\ 74.42\\ 73.80\\ 73.80\\ 72.36\\ 72.96\\ 74.46\\ 73.68\\ 74.40\\ 75.66\\ 74.49\\ 73.80\\ 73$					1
	1314 1325 1342 1346 1348 1352 1356 1360 1363	$\begin{array}{c} 16.21 \\ 16.04 \\ 16.04 \\ 16.13 \\ 16.20 \\ 16.15 \\ 16.11 \\ 16.19 \\ 16.31 \\ 16.05 \end{array}$	$\begin{array}{c} 20.25\\ 20.25\\ 20.25\\ 20.50\\ 21.00\\ 20.50\\ 21.00\\ 20.75\\ 21.50\\ 21.75\\ \end{array}$	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	$\begin{array}{c} 72.73 \\ 72.42 \\ 72.42 \\ 72.99 \\ 73.80 \\ 73.05 \\ 73.53 \\ 73.53 \\ 73.47 \\ 74.73 \\ 74.25 \end{array}$	Mathieson Ammo-Phos 11-48-0 Gue	aranteed 172 823 1026 1742	$\begin{array}{c} 11.00 \\ 11.52 \\ 11.49 \\ 11.65 \\ 11.68 \end{array}$	48.00 48.20 48.30 49.39 48.30	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	1371 1373 1377 1394 1404 1410	16.08 16.18 16.16 16.02 16.00 16.02	$\begin{array}{c} 21.75\\ 20.25\\ 20.75\\ 21.75\\ 21.75\\ 21.25\end{array}$	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	74.3472.8473.3874.1674.1073.56	Mathieson Ammo-Phos 13-39-0 Gua	$ 1758 \\ 1771 \\ 1831 \\ 2146 $	$11.90 \\ 11.40 \\ 11.70 \\ 11.88$	48.85 48.39 46.59 49.04 zer	0.00 94.32 0.00 92.27 0.00 91.01 0.00 94.49
	1414 1430	$16.02 \\ 15.56 \\ 16.01$	20.75 21.51 20.39	0.00 0.00 0.00	72.96 72.49 72.50	Gua	47 168 173	$13.10 \\ 13.18 \\ 13.12 \\ 13.14$	39.00 39.20 39.00 37.74	0.00 85.80 0.00 86.58 0.00 86.16 0.00 84.71

Manufacturer, place of business and brand	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	P'otash, percent	Valuation found per ton, dollars	Mauntacture, blace of phosphoric Phosphoric Percent Percent Percent Percent Percent
Mathieson Ammo-Phos 13-39-0 Pe	elletize 218 226	13.00	39.30	0.00		Mathieson 30% Superphosphate Fertilizer Guaranteed 0.00 30.00 0.00 3
	$\begin{array}{c} 397\\ 406\\ 412 \end{array}$	$13.09 \\ 13.19 \\ 13.44 \\ 13.25 \\ 12.49$	$\begin{array}{r} 40.50 \\ 40.50 \\ 41.00 \\ 41.00 \\ 40.50 \end{array}$	0.00 0.00 0.00	88.17 89.52 88.95	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	$\begin{array}{c} 414\\ 586\\ 612\\ 772\\ 780\\ 782\\ 866\\ 877\\ 879\\ 1023\\ 1167\\ 1395\\ 1420\\ 1426\\ 1446 \end{array}$	$\begin{array}{c} 13.42\\ 13.16\\ 13.48\\ 13.40\\ 13.32\\ 13.28\\ 13.04\\ 13.06\\ 13.00\\ 13.57\\ 13.00\\ 13.57\\ 13.28\\ 13.90\\ 13.51\end{array}$	$\begin{array}{c} 40.50\\ 39.50\\ 39.50\\ 39.35\\ 39.40\\ 40.99\\ 40.46\\ 39.82\\ 39.62\\ 40.22\\ 40.77\\ 39.57\\ 39.57\\ 39.54\\ 36.30\\ 38.26\end{array}$	$\begin{array}{c} 0.00\\$	$\begin{array}{c} 86.88\\ 87.84\\ 87.24\\ 89.03\\ 87.67\\ 87.26\\ 86.54\\ 88.97\\ 87.92\\ 87.59\\ 86.69\\ 85.26\\ \end{array}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$1452 \\ 1549 \\ 1551 \\ 1556 \\ 1559 \\ 1563 \\ 1570$	$13.32 \\13.14 \\13.28 \\13.32 \\13.32 \\13.76 \\13.36$	$\begin{array}{r} 39.00\\ 39.56\\ 39.15\\ 39.01\\ 39.21\\ 40.45\\ 40.01 \end{array}$	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00 \end{array}$	$86.89 \\ 86.82 \\ 86.77 \\ 87.01$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	$\begin{array}{c} 1723\\ 1729\\ 1733\\ 1744\\ 1747\\ 1762\\ 1791\\ 1795\\ 1883\\ 2164\\ 2495\\ 2527\\ 2552 \end{array}$	$\begin{array}{c} 13.20\\ 13.48\\ 13.44\\ 13.40\\ 13.20\\ 13.44\\ 13.08\\ 13.84\\ 13.40\\ 13.45\\ 13.00\\ 13.45\\ 13.00\\ 13.28\\ \end{array}$	$\begin{array}{c} 40.23\\ 40.15\\ 39.94\\ 40.90\\ 41.26\\ 40.50\\ 41.04\\ 40.06\\ 40.65\\ 41.26\\ 41.39\\ 41.00\\ 40.89\end{array}$	$\begin{array}{c} 0.00\\$		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Mathieson Ammo-Phos 6-24-24 Pe Guaran		ed Ferti 6.00 6.30 6.67 6.79 6.28 8.50 6.47 6.88	lizer 24.00 24.42 25.80 26.40 28.35 24.00 24.60	$\begin{array}{c} 24.00\\ 24.44\\ 27.08\\ 24.20\\ 24.28\\ 16.76\\ 26.08\\ 23.50\\ \end{array}$	61.20 62.36 65.56 65.85 65.09 69.58 63.86 64.26	1958 0.00 46.05 0.00 55 Mathieson Triple Superphosphate 48% Guaranteed 0.00 48.00 0.00 57 322 0.00 48.15 0.00 57 728 0.00 48.30 0.00 57 728 0.00 48.30 0.00 57 1763 0.00 48.30 0.00 57
	513 742 1024 1323 1376 1676 1685	$\begin{array}{c} 6.36 \\ 6.40 \\ 6.50 \\ 6.44 \\ 6.64 \\ 6.40 \\ 6.94 \end{array}$	$\begin{array}{r} 24.50\\ 24.07\\ 24.25\\ 26.27\\ 24.50\\ 26.57\\ 24.75\end{array}$	$\begin{array}{c} 26.02\\ 26.12\\ 25.20\\ 19.72\\ 25.24\\ 24.60\\ 24.00\\ \end{array}$	$\begin{array}{c} 64.09\\ 63.76\\ 63.72\\ 62.68\\ 64.46\\ 65.84\\ 64.92 \end{array}$	Oil Mill and Fertilizer Works, Henderson, Texas Wolf Brand 5-10-5 Fertilizer Guaranteed 5.00 10.00 5.00 30 19 5.30 9.00 6.62 30 Wolf Brand 3-12-12 Fertilizer
Mathieson 8-8-8 Fertilizer Guaran		8.00 8.48 8.26 8.20 7.18	8.00 8.80 8.40 8.30 9.20	8.00 8.82 8.02 8.13 9.00	38.40 41.29 39.67 39.44 37.98	Guaranteed 3.00 12.00 12.00 30 1 3.39 12.20 13.84 33. Phillips Chemical Co., Houston, Texas Phillips 66 Prilled Ammonium Nitrate Fertilizer 33-0-0 Guaranteed 33.00 0.00 0.00 99. 235 33.56 0.00 0.00 100
	teed 435 967 1056 1074 083 110 115	5.00 5.32 5.44 5.58 5.46 5.33 4.81 5.24	$\begin{array}{c} 10.00\\ 10.30\\ 10.30\\ 10.50\\ 10.10\\ 10.60\\ 11.00\\ 10.50\\ \end{array}$	5.00 5.75 5.85 5.68 5.73 5.29 7.30 6.03	30.00 31.77 32.19 32.75 31.94 <i>31.88</i> 32.01 31.94	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Mathieson 3-12-12 Fertilizer Guarant	eed	5.00 5.84 3.00	10.00 10.50 12.00	10.00 12.20 12.00	33.00 37.44 30.60	2748 33.88 0.00 0.00 101.0 Phillips 66 Ammonium Sulphate 21-0-0 Guaranteed 21.00 0.00 0.00 63.0 768 21.00 0.00 0.00 63.0
		3.30 3.80 .33.50	12.20 12.60 0.00	12.56 12.04 0.00	32.07 33.74 100.50	Bittehurg Fartilizer Company Bittehurg Targe
	820	33.55	0.00	0.00	100.50	Golden Nugget 8-8-8- Guaranteed 8.00 8.00 8.00 38.4 992 8.06 8.56 8.36 39.4
Guarant		0.00 0.00 0.00 0.00 0.00 0.00	20.00 26.39 21.75 21.00 27.92	$\begin{array}{c} 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \end{array}$	$\begin{array}{c} 24.00\\ 31.67\\ 26.10\\ 25.20\\ 33.50\end{array}$	1095 8.00 8.20 8.34 38.5 1987 7.00 8.70 9.36 37.0 Golden Nugget 10-20-0
	111	0.00	23.75	0.00	28.50	- Guaranteed 10.00 20.00 0.00 54.0 1965 10.00 21.50 0.00 55.8

		Ana	aryses	OI COI	umero	al ier	illizers sampled during 19	54-55, c	ontin	ued			
Manufacturer, place of and brand	business	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	P'otash, percent	Valuation found per ton, dollars	Manufacturer, place of bus and brand	siness	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	P'otash, percent	Valuation found per ton, dollars
Golden Nugget 5-10-5							and the second second	28	395	5.00	11.20	6.0	
	Guara	nteed 993 1096 1966 1988	$5.00 \\ 5.06 \\ 5.06 \\ 5.02 \\ 5.00$	$ \begin{array}{r} 10.00 \\ 9.82 \\ 10.00 \\ 9.57 \\ 10.50 \end{array} $	5.00 4.46 5.85 5.50 6.42	30.00 29.64 30.69 29.84 31.45		25 25 25	496 561 565 567 573	5.32 5.54 5.66 5.76 5.02	$ \begin{array}{r} 10.40 \\ 10.50 \\ 10.80 \\ 11.20 \\ 10.00 \end{array} $	6.6 6.4 6.5 5.3 6.1	4 33.08 5 33.88 2 33.91
Golden Nugget 10-20-10) Guarai	nteed 2656	$\begin{array}{c} 10.00\\ 10.16\end{array}$	$\begin{array}{c} 20.00\\ 20.50\end{array}$	$\begin{array}{c} 10.00\\ 10.68 \end{array}$			26 26 26	582 534 542 545	5.44 5.08 5.32 4.58	$10.30 \\ 10.80 \\ 10.10 \\ 9.64$	6.30 6.12 6.17 6.00	2 31.87 7 31.78 9 28.91
Golden Nugget 5-10-10	Guarai	nteed 2655	$5.00 \\ 5.42$	$\begin{array}{c} 10.00\\ 11.30\end{array}$	$\begin{array}{c} 10.00\\ 11.00\end{array}$	$\begin{array}{c} 33.00\\ 36.42\end{array}$	Red Star Brand 10-20-10	28	49 339	5.56 · 6.04	10.80 11.30	5.68	35.46
Golden Nugget 0-20-0	Guarar	nteed 446	$0.00 \\ 0.00$	$\begin{array}{c} 20.00\\ 20.00\end{array}$	$\begin{array}{c} 0.00\\ 0.00\end{array}$	$\begin{array}{c} 24.00\\ 24.00\end{array}$	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	10 11	43 65 19	$ \begin{array}{r} 10.00 \\ 9.05 \\ 9.29 \\ 10.32 \\ \end{array} $	20.00 20.85 18.00 23.20	$ \begin{array}{r} 10.00 \\ 9.39 \\ 10.22 \\ 10.82 \end{array} $	57.80 55.60 65.29
Port Fertilizer & Chemica Liquidry Soluble Fertil			Fresnos	s, Texas				11 11 11		9.80 10.60 10.04	20.50 20.25 22.40	$11.12 \\ 9.54 \\ 10.58$	61.82
10121 1013 10128 101 10123 1013 20138 00 10133 1013 10138 101 10133 1013 1013 10138 101 10133 1013 2013 1013	Guaran	313 775	$16.00 \\ 16.04 \\ 19.64$	$32.00 \\ 35.16 \\ 31.00$	$16.00 \\ 19.06 \\ 14.11$	$96.00 \\ 101.75 \\ 104.59$		16 16 18	04 14 63	9.60 8.62 10.08 10.27	$\begin{array}{c} 21.75 \\ 22.50 \\ 21.00 \\ 20.50 \end{array}$	$10.44 \\10.12 \\11.00 \\11.70$	61.16 58.93 62.04
Liquidry Soluble Fertil	Guaran	rteed 776	$\begin{array}{c} 24.00\\ 23.73\end{array}$	$\begin{array}{c} 24.00\\ 25.50\end{array}$	$\begin{array}{c} 12.00\\ 12.37\end{array}$	$108.00 \\ 109.21$		20 21 22 22	53 10 21	8.88 9.64 10.08 10.84	$21.50 \\ 22.50 \\ 21.75 \\ 21.75 \\ 21.75$	$ 10.36 \\ 11.00 \\ 11.30 \\ 10.00 $	58.66 62.52 53.12
Liquidry Soluble Fertil	Guaran	774	$\begin{array}{c} 30.00\\ 31.25\end{array}$	$\begin{array}{c} 10.00\\ 10.20\end{array}$	0.00	$102.00 \\ 105.99$		24 25 25 25	54 66 1 69 1	9.84 10.00 10.00 9.56	$22.00 \\ 21.75 \\ 16.49 \\ 22.00$	$ \begin{array}{r} 10.64 \\ 11.30 \\ 10.04 \\ 11.84 \end{array} $	62.30 62.88 55.81 62.18
Liquidry Soluble Fertil	Guaran	314	$\begin{array}{c} 20.00\\ 21.00\end{array}$	$\begin{array}{c} 52.00\\ 53.50\end{array}$	$\substack{0.00\\0.00}$	$122.40 \\ 127.20$	Red Star 5-10-10	26 26	31 1	10.04 10.08	21.25 20.00	10.92 11.23	62.17 60.98
Red Star Fertilizer Co., S Red Star Brand 15-15-0				15.00	0.00	69.00		Guarante 18		5.00 5.00	10.00 10.70	$10.00 \\ 10.00$	33.00 33.84
	0. 8891	1399 1616 1849 2273	$15.00 \\ 14.15 \\ 12.64 \\ 13.52 \\ 15.26$	$15.00 \\ 17.01 \\ 20.15 \\ 17.16 \\ 17.40$	$\begin{array}{c} 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \end{array}$	$\begin{array}{c} 63.00 \\ 62.86 \\ 62.10 \\ 61.15 \\ 66.66 \end{array}$	Red Star Brand 16-20-0	21 22	22	5.40 5.34	10.30 11.20	10.64 8.50	34.94 34.56
aste want bries we	1.	2489 2562	$12.80 \\ 14.68$	20.77 18.94	0.00	63.32 66.77	55.40 39.15 14.65 30.16 13.14 35.65 15.05 10.15	Guarante 3		.6.00 .6.28	$20.00 \\ 20.75$	0.00 0.00	72.00 73.74
Red Star Brand 10-20-0	Guaran	tood	10.00	20.00	0.00	54.00	Red Star Brand 0-20-0	Guarantee		0.00	20.00	0.00	24.00
98,89 44.9 31,99 96 88,99 96,5 92,67 4 73,52 90,6 90,7 0 73,52 90,6 90,7 0		1848 1862 2272 2490 2559 2563 2568 2568	9.00 9.30 9.20 10.01 9.60 10.08 10.00 9.40	$\begin{array}{r} 22.95\\ 22.25\\ 24.15\\ 22.64\\ 23.00\\ 22.00\\ 22.00\\ 21.00\end{array}$	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	$54.54 \\ 54.60 \\ 56.58 \\ 57.20 \\ 56.40 \\ 56.64 \\ 56.40 \\ $	(4) 201、47.21、47.22、47.23,47,40、47.23	10' 110 158 184 227 255 255 255	06 81 47 70 58 75	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	$\begin{array}{c} 20.25\\ 20.00\\ 21.00\\ 20.00\\ 21.50\\ 17.52\\ 21.25\\ 20.00\\ \end{array}$	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	$\begin{array}{c} 24.30 \\ 24.00 \\ 25.20 \\ 24.00 \\ 25.80 \\ 21.02 \\ 25.50 \\ 24.00 \end{array}$
		2587	10.02	23.37	$\begin{array}{c} 0.00\\ 0.00\end{array}$	$\begin{array}{c} 53.40\\ 58.10\end{array}$	Red Star Brand 0-45-0	258	33	0.00	21.00	0.00	25.20
Red Star Brand 8-8-8	역산의 전에임	teed 981 1066 1605	8.00 8.36 7.09	8.00 8.10 8.10	$8.00 \\ 8.38 \\ 7.45 \\ 0.00 \\ $	38.40 39.83 35.46		Guarantee 140 196 249	00 57	0.00 0.00 0.00 0.00	$\begin{array}{r} 45.00 \\ 45.35 \\ 33.00 \\ 46.62 \end{array}$	$\begin{array}{c} 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \end{array}$	54.00 54.42 39.60 55.94
	1 2 2 2 2 2 2	1861 2054 2104 2126 2394 2497	$7.52 \\ 8.44 \\ 6.60 \\ 8.04 \\ 7.70 \\ 6.94 \\ 6.70$	8.20 10.85 8.50 8.20 9.00 10.80	$\begin{array}{r} 9.30 \\ 8.42 \\ 9.22 \\ 8.60 \\ 9.76 \\ 9.46 \\ 8.76 \end{array}$	37.98 43.39 35.53 39.12 38.80 37.30 38.32	Sewerage Commission, Milwa Milwaukee Milorganite Ide	aukee, Wise al Lawn Guarantee 159	& Gai	den F 6.00 5.68	ertilize 4.00 3.84	r 6-4-0 0.00 0.00	22.80 21.65
		2643	5.82	14.37	7.45	39.17	Shreveport Fertilizer Works, La Tex 8-8-8 Fertilizer	Shrevepo	rt, Lo	uisian	a		
Red Star Brand 12-12-1:	Guarant 1 2	teed 615 2414 2669	$12.00 \\ 11.96 \\ 11.08 \\ 12.03$	12.00 12.70 14.89 13.70	$12.00 \\ 13.02 \\ 10.14 \\ 12.88$	57.60 58.93 57.19 60.26		Guarantee 67 99 223 224	70 97 86	8.00 7.56 8.14 7.66 8.20	$\begin{array}{c} 8.00 \\ 8.20 \\ 8.20 \\ 9.10 \\ 8.70 \end{array}$	8.00 8.82 7.86 8.32 6.51	38.40 37.81 38.98 38.89 38.95
Red Star Brand 5-10-5							La Tex 12-12-12 Fertilizer						13214
		teed 449 978 982	5.00 5.08 5.48 5.00	10.00 10.00 10.30 10.30	$5.00 \\ 5.38 \\ 6.29 \\ 5.64$	$30.00 \\ 30.47 \\ 32.57 \\ 30.74$	La Tex 5-10-5 Fertilizer	Guarantee 19		2.00 9.97	12.00 13.20	$\begin{array}{c} 12.00\\ 12.44 \end{array}$	57.60 53.21
	1 1 1 1 1 1 1	058 067 105 120 147 163 408	$5.20 \\ 6.20 \\ 5.24 \\ 5.90 \\ 4.64 \\ 4.57 \\ 4.80$	9.50 11.20 10.10 10.70 10.22 8.70 10.00	5.44 5.80 5.87 6.31 5.40 4.52	30.26 35.52 31.36 34.33 29.42 26.86	n na standar an	Guarantee 18 91 99 99 228 232	5 4 4 8 4 4	$4.66 \\ 5.13 \\ 5.31 \\ 5.34 \\ 5.47$	$ \begin{array}{c} 10.00 \\ 10.30 \\ 10.30 \\ 10.10 \\ 10.00 \\ 10.00 \\ 10.00 \\ 10.00 \\ \end{array} $	5.00 6.37 5.88 5.41 5.41 5.41 5.46 5.01	30.00 30.16 31.28 31.30 31.27 31.69 91 20
	1 1 2 2	408 606 882 105 109 112	$\begin{array}{r} 4.80 \\ 5.38 \\ 5.00 \\ 5.09 \\ 5.08 \\ 5.18 \end{array}$	$10.00 \\ 10.60 \\ 10.70 \\ 10.00 \\ 10.90 \\ 11.20$	$5.41 \\ 6.79 \\ 6.17 \\ 7.35 \\ 6.00 \\ 6.48$	29.65 32.93 31.54 31.68 31.92 32.87	La Tex 10-20-10 Fertilizer	Guarantee 52 66	d 1(3 §).00).70	10.00 20.00 20.16	5.01 10.00 10.04	31.39 60.00 59.31
96		127		14.74	6.40	39.80		91			19.70 20.10	10.02 10.10	58.87 57.93

Manufacturer, place of busi and brand	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	P'otash, percent	Valuation found per ton, dollars	Manufacturer, place of business and brand	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	P'otash, percent	Valuation found per ton, dollars
Lion 0-14-7 Fertilizer	Guaranteed	0.00	14.00 14.50	7.00 9.01	21.00 22.81	Longhorn 4-12-4 Fertilizer Guara	inteed 1249	4.00	12.00 11.61	4.00	28.80 30.13
Lion 8-8-8 Fertilizer						Longhorn 3-12-12 Fertilizer					
	Guaranteed 145 918	$8.00 \\ 6.23 \\ 8.14$	$8.00 \\ 9.35 \\ 8.10$	$8.00 \\ 7.13 \\ 8.60$	$38.40 \\ 34.19 \\ 39.30$	Guara	465	$3.00 \\ 3.96$	$12.00 \\ 12.50$	$12.00 \\ 12.40$	$30.60 \\ 34.32$
	1114 1873	8.22 8.12	8.20 8.20	$8.02 \\ 8.24$	$39.31 \\ 39.14$	Smith-Douglass Company, Inc., Ho "Pelleform" Fertilizer 13-13-13	ouston,				
	1991 2103	8.00 8.12	8.50 8.40	8.38 8.02	39.23 39.25	Guara	inteed 1232	$\begin{array}{r}13.00\\13.72\end{array}$	$\begin{array}{r}13.00\\13.60\end{array}$	$\begin{array}{r}13.00\\13.44\end{array}$	$13.00 \\ 65.54$
	$\begin{array}{c} 2130 \\ 2281 \end{array}$	$7.84 \\ 7.50$	8.50 9.70	$8.22 \\ 8.76$	38.65 39.40	"Pelleform" Fertilizer 16-20-0	ntood	16.00	90.00	0.00	79.00
	2580 2610	$7.56 \\ 7.50$	8.90 9.65	$8.76 \\ 7.80$	$38.62 \\ 38.76$	Guara	232 326	$16.00 \\ 16.16 \\ 16.34$	$20.00 \\ 20.50 \\ 21.50$	$0.00 \\ 0.00 \\ 0.00$	72.00 73.08 74.82
	2834	8.06	8.50	8.40	39.42		520 764 767	$16.24 \\ 15.59$	20.00 21.00	0.00	72.72
Lion 5-10-5 Fertilizer	Guaranteed	5.00	10.00	5.00	30.00		783 808	$16.36 \\ 16.12$	20.00 20.00	0.00	71.97 73.08 72.36
	144 244 252	5.48 5.18	10.40 10.00	4.49	$31.61 \\ 30.80 \\ 20.52$		809 1233	16.12 16.20 16.20	20.00 21.25	0.00	72.60
	$373 \\ 564 \\ 500$	$4.79 \\ 4.60$	$10.45 \\ 10.50 \\ 10.00$	$6.04 \\ 5.45 \\ 5.15 \\ 15 \\ 15 \\ 15 \\ 15 \\ 15 \\ 15 \\$	30.53 29.67	"Pelleform" Fertilizer 13-39-0	1200	10.20	21.20	0.00	14.10
	599 793	$5.14 \\ 5.21 \\ 5.10 $	$10.00 \\ 10.20$	$5.17 \\ 5.00$	30.52 30.87	Guara	inteed 325	$13.00 \\ 12.77$	$39.00 \\ 41.00$	$0.00 \\ 0.00$	85.80 87.51
	919 938	5.18	10.00 10.11	5.56	30.88 30.52	Southwart Dartilian & Charles I C	765	13.25	41.90	0.00	90.03
	1115 1221 1225	$5.02 \\ 5.15 \\ 5.00$	10.20 9.85	4.93	30.26 30.44	Southwest Fertilizer & Chemical C SWFGRO 14-7-0					FO 10
	1227 1320	5.08 5.06	10.10 10.00	$5.41 \\ 5.10 \\ 5.50$	30.61 30.24	Guara	1814	$\begin{array}{c} 14.00\\ 12.11\end{array}$	$\begin{array}{r} 7.00 \\ 10.04 \end{array}$	$\begin{array}{c} 0.00\\ 0.00\end{array}$	$50.40 \\ 48.38$
	1874 1968	5.36 5.36	10.00 10.02	5.50 5.68	$31.38 \\ 31.51 \\ 01.20$	SWFGRO 0-20-0 Guara	inteed	0.00	20.00	0.00	24.00
	1992 2132	5.12 5.24	10.50 10.70 10.20	$5.70 \\ 6.12 \\ 5.01$	31.38 32.23		1801 1813	0.00	$19.20 \\ 20.05$	0.00	23.04 24.06
	$2280 \\ 2316 \\ 2407$	5.60 5.00	10.30	$5.61 \\ 6.03 \\ c.00$	32.53 30.74	Spencer Chemical Co., Kansas City	. Miss	ouri		0.00	21.00
	2427 2476	5.50 5.32	10.70 10.00	6.00 5.04	32.94 30.98	"Mr. N" Ammonium Nitrate Fe Guara	inteed	33.50	0.00	0.00	100.50
	$2571 \\ 2630 \\ 2630$	$5.50 \\ 5.50 \\ 5.00 \\ $	$10.70 \\ 10.90 \\ 10.40$	$5.50 \\ 5.00 \\ 5.00$	32.64 32.58	Sunshine Plant Food Company, Clo	1805	33.87	0.00	0.00	101.61
	$2664 \\ 2679 \\ 9607$	5.26 5.38	10.40 10.70	5.32 5.81	$31.45 \\ 32.47 \\ 22.40 \\ 10$	Sunshine Plant Food Brand 5-10-	-5			F 00	00.00
	2687 2691	5.56	10.50 10.70 10.50	$5.35 \\ 5.20 \\ 5.11$	32.49 32.34	Guara	1590	$5.00 \\ 5.50$	$\begin{array}{c} 10.00\\ 10.61 \end{array}$	$5.00 \\ 6.55$	$\begin{array}{c} 30.00\\ 33.16\end{array}$
	2728 2762	$5.42 \\ 5.50 \\ 5.90 \\ $	$10.50 \\ 10.90$	$5.11 \\ 5.37 \\ 5.20$	$31.93 \\ 32.80 \\ 22.10 \\ 32.1$	Sunshine Plant Food Sheep Man Guara		1.00	1.00	1.00	4.80
	$\begin{array}{c} 2764 \\ 2833 \end{array}$	$5.30 \\ 5.38$	$10.90 \\ 10.11$	$5.28 \\ 5.64$	$\begin{array}{c} 32.15\\ 31.66\end{array}$		$ 1823 \\ 2554 $	$1.64 \\ 1.67$	$1.10 \\ 1.05$	$2.68 \\ 3.15$	7.85 8.16
Lion 10-20-10 Fertilizer	Guaranteed	10.00	20.00	10.00	60.00	Sunshine Plant Food 5-1-1					
	1930 2475	$10.12 \\ 9.60$	$19.16 \\ 21.00$	10.00 11.16 10.00	60.05 60.00	Guara	nteed 1589	5.00 5.99	$1.00 \\ 1.00$	$\begin{array}{c} 1.00\\ 2.44\end{array}$	$16.80 \\ 20.63$
	2482	9.60	21.25	10.36	60.52	Swift & Co., Plant Food Division,	House	ton, Tex	as		
Lion 4-12-4 Fertilizer	Guaranteed	4.00	12.00	4.00	28.80	Swift's Red Steer 15-15-0 Guara		15.00	15.00	0.00	63.00
	$\begin{array}{c} 143 \\ 1321 \end{array}$	$\begin{array}{r} 4.16 \\ 4.40 \end{array}$	$12.00 \\ 12.90$	$4.56 \\ 4.29$	$29.68 \\ 31.25$		$ \begin{array}{r} 405 \\ 409 \\ 568 \end{array} $	$15.08 \\ 14.00 \\ 15.16$	15.25 15.75	0.00	63.54 60.90
Lion 20% Superphosphate							686 719	$15.16 \\ 15.08 \\ 15.02$	$16.49 \\ 15.00 \\ 15.75 \\ 15.7$	0.00	65.27 63.24
	Guaranteed 1158	$\begin{array}{c} 0.00\\ 0.00\end{array}$	$20.00 \\ 20.25$	$0.00 \\ 0.00$	$24.00 \\ 24.30$		751 836	12.75 13.62	$15.75 \\ 15.31 \\ 17.53$	$0.00 \\ 0.00 \\ 0.00$	$63.96 \\ 56.62 \\ 61.90$
Longhorn 0-16-8 Fertilizer							$2017 \\ 2020$	$14.28 \\ 14.72$	17.75 15.75	0.00	64.14 63.06
	Guaranteed 2890	$0.00 \\ 0.00$	$16.00 \\ 17.25$	$8.00 \\ 8.62$	$\begin{array}{r} 24.00\\ 25.87\end{array}$		$2074 \\ 2268$	12.60 14.16	18.16 17.00	2.80	61.27 62.88
Longhorn 8-8-8 Fertilizer							$2269 \\ 2343$	$14.48 \\ 14.04$	$18.24 \\ 18.21$	0.00	65.33 63.97
	Guaranteed 360	$8.00 \\ 7.49$	$8.00 \\ 8.50$	$8.00 \\ 9.14$	$38.40 \\ 38.15$	Swift's Red Steer 12-12-12					
	$ 1190 \\ 1247 $	$8.84 \\ 7.31$	$8.20 \\ 8.50$	$\frac{8.14}{7.15}$	$41.24 \\ 36.42$	Guara	nteed 549	$12.00 \\ 12.00$	$12.00 \\ 12.50$	$12.00 \\ 12.10$	$57.60 \\ 58.26$
	2690 2720	$7.04 \\ 8.06$	$\begin{array}{r}10.10\\8.70\end{array}$	$7.64 \\ 8.06$	37.82 39.46		$\begin{array}{c}1642\\1999\end{array}$	$11.16 \\ 11.64$	$\begin{array}{c} 13.16\\11.79\end{array}$	$11.21 \\ 12.00$	$56.00 \\ 56.27$
	2729	8.14	8.70	8.58	40.01		$\begin{array}{c} 2021 \\ 2023 \end{array}$	$\begin{array}{c} 11.20\\ 10.06 \end{array}$	$12.30 \\ 12.60$	$12.08 \\ 9.40$	$55.61 \\ 50.94$
Longhorn 5-10-5 Fertilizer	Guaranteed	5.00	10.00	5.00	30.00	G. : (1) D. J. Sterr 10.90.0	2430	10.92	14.00	11.15	56.25
	$358 \\ 466$	$5.00 \\ 5.41$	$10.00 \\ 10.30$	$5.45 \\ 5.32$	30.27 31.78	Swift's Red Steer 10-20-0 Guara		10.00	20.00	0.00	54.00
	$\begin{array}{c} 1047\\1248\end{array}$	$5.20 \\ 5.13$	$10.00 \\ 10.00$	$5.11 \\ 5.09$	30.67 30.44		20 32	10.07 9.82	20.00 19.20 20.56	$0.00 \\ 0.00 \\ 0.00$	54.21 52.50
	$\begin{array}{r}1302\\2462\end{array}$	$4.86 \\ 5.10$	$10.00 \\ 10.50$	$5.11 \\ 5.53$	29.65 31.22		$106 \\ 157 \\ 503$	$10.04 \\ 10.32 \\ 12.05$	20.56 20.05 19.01	$0.00 \\ 0.00 \\ 0.00$	54.79 55.02
	2752	5.06	10.10	5.47	30.58		651	12.05 9.89	19.01 20.00	$0.00 \\ 0.00 \\ 0.00$	58.96 53.67
nghorn 10-20-10 Fertilizer	Guaranteed	10.00	20.00	10.00	60.00		$ \begin{array}{r} 655 \\ 703 \\ 720 \end{array} $	$10.93 \\ 11.78 \\ 10.12$	20.00 18.32	0.00	56.79 57.32
	359 1046	9.90	20.00 20.20 20.00	10.00 10.60 10.02	60.00 60.30 58.96		804	$10.12 \\ 10.12 \\ 10.14$	20.00 20.00 21.00	0.00	54.36 54.36
	1040 1189 2304	9.80 10.04	20.00 20.00 19.54	9.19 10.96	$58.90 \\ 58.91 \\ 60.14$		837 1867	$10.14 \\ 10.52 \\ 10.20$	21.00 20.45 17.80	0.00	55.62 56.10
	2304 2434 2721	9.48 10.04	19.54 19.74 20.75	10.42	58.38		1934 2081	10.39 9.52	17.80 20.00	0.00	52.53 52.56
	2121	10.04	20.15	9.84	60.92		2090	10.56	19.75	0.00	55.38

Valuation found per ton, dollars

62.11 59.04 61.70

33.00 35.72 35.98

28.80 30.37 29.22 32.04 28.63 32.36 32.39

66.00 65.46 74.93 67.50

24.00 24.60 24.60

36.00 36.00 32.46

36.00 34.67

32,40 33,43 31,70 33,24 31,93 33,67 32,06 32,74 35,89 33,47

38.40 45.61 39.39 38.83 37.63 36.86 38.77 38.17 39.74

54.00 55.02

30.60 30.00 31.89 30.00 35.87 31.29 34.18 31.88

21.00 21.15

 $\begin{array}{c} 63.00\\ 63.51\\ 53.77\\ 63.60\\ 63.06\\ 63.41\\ 62.28\end{array}$

38.40 37.90 38.57 38.11 38.74 40.69

Aanufacturer, place of business and brand	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found per ton, dollars	Manufacturer, place of bus and brand	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	P'otash, percent
Swift's Red Steer 5-10-5 Guara	nteed	5.00	10.00	5.00	30.00		2701 2778	10.40 9.44	20.75 20.25	10.02 10.70
	30 36	$4.41 \\ 5.34$	$10.20 \\ 11.20$	$5.57 \\ 5.93$	$28.81 \\ 33.02$		2813	10.16	20.25	10.10
	$51 \\ 54 \\ 92$	$5.00 \\ 5.08 \\ 4.80$	$12.15 \\ 11.00 \\ 10.50$	$5.35 \\ 5.46 \\ 5.02$	$32.79 \\ 31.72 \\ 30.01$	Swift's Red Steer 5-10-10	Guaranteed	5.00	10.00	10.00
	107 136	5.06 4.54	10.30 10.40 10.70	4.76 5.38	30.51 29.69		$21\\2406$	$5.28 \\ 5.60$	$12.20 \\ 10.30$	$8.74 \\ 11.36$
	$\begin{array}{c}149\\194\end{array}$	$\begin{array}{r} 4.34 \\ 4.60 \end{array}$	$13.50 \\ 10.50$	$\begin{array}{c} 5.23 \\ 6.06 \end{array}$	32.36 30.03	Swift's Red Steer 4-12-4	Guaranteed	4.00	·12.00	4.00
	197 262	$4.58 \\ 5.37$	$10.30 \\ 10.90$	$5.92 \\ 5.15 \\ 1.15 \\ $	29.65 30.48		$\begin{array}{c}137\\695\end{array}$	$\begin{array}{r} 4.52 \\ 4.16 \end{array}$	$\begin{array}{c} 11.02\\ 11.19 \end{array}$	5.98 5.52
	$410 \\ 694 \\ 749$	$4.91 \\ 4.79 \\ 4.82$	$10.20 \\ 10.40 \\ 10.64$	$5.15 \\ 5.43 \\ 6.00$	$ \begin{array}{r} 30.06 \\ 30.11 \\ 30.83 \end{array} $		714 2080	$4.76 \\ 3.62 \\ 4.99$	$12.20 \\ 12.50 \\ 10.10 $	5.14 4.61
	791 983	4.82 3.95 4.93	10.04 10.07 10.80	4.41 5.41	26.58 31.00		2266 2542	$\begin{array}{r} 4.28 \\ 4.85 \end{array}$	$12.10 \\ 12.50$	8.33 4.73
	1912 1949	6.29 5.10	9.66 10.00	$5.43 \\ 5.00$	33.72 30.30	Swift's Red Steer 10-30-0	Guaranteed	10.00	30.00	0.00
	$1955 \\ 1998$	$\begin{array}{r} 4.60\\ 4.13\end{array}$	$\begin{array}{c} 10.90\\11.00\end{array}$	$4.00 \\ 5.36$	29.28 28.81		404 653	9.42 10.10	31.00 37.19	0.00
	$\begin{array}{c} 2010\\ 2028 \end{array}$	$\begin{array}{r} 4.74 \\ 6.06 \end{array}$	$10.70 \\ 10.50$	$5.00 \\ 6.15$	$30.06 \\ 34.47$		825	9.50	32.50	0.00
	2070 2095	5.74 4.50	10.00	5.98 5.64	$32.81 \\ 29.72 \\ 34.39$	Swift's Red Steer 0-20-0	Guaranteed	0.00	20.00	0.00
	$2139 \\ 2171 \\ 2200$	$5.74 \\ 4.40 \\ 5.08$	$11.40 \\ 10.90 \\ 10.36$	$5.81 \\ 5.04 \\ 4.52$	29.30 30.38		$713\\894$	$\begin{array}{c} 0.00\\ 0.00\end{array}$	$20.50 \\ 20.50$	$\begin{array}{c} 0.00\\ 0.00\end{array}$
	2267 2338	4.70 5.20	$11.12 \\ 10.30$	5.00 5.68	30.44 31.37	Swift's Red Steer 0-30-0	Guaranteed	0.00	30.00	0.00
	$\begin{array}{c} 2541 \\ 2613 \end{array}$	$\begin{array}{c} 5.24 \\ 5.04 \end{array}$	$\begin{array}{c} 11.60\\ 10.50\end{array}$	$6.19 \\ 6.54$	$33.35 \\ 31.64$		$\begin{array}{c} 155\\ 339\end{array}$	$\begin{array}{c} 0.00\\ 0.00\end{array}$	$30.00 \\ 27.05$	$\begin{array}{c} 0.00\\ 0.00\end{array}$
	2666 2670	5.02 5.12	10.10 10.60	$5.00 \\ 5.81 \\ 5.50$	30.18 31.57 25.40	Muriate of Potash 60%	Guunatia	0.00	0.00	CO 00
	$2686 \\ 2700 \\ 2769$	$ \begin{array}{r} 6.13 \\ 5.06 \\ 5.08 \end{array} $	$11.50 \\ 10.60 \\ 10.90$	5.35 5.23	$35.49 \\ 31.11 \\ 31.46$		Guaranteed 91	$0.00 \\ 0.00$	$\begin{array}{c} 0.00\\ 0.00\end{array}$	60.00 57.79
	2811 2829	4.70 5.10	11.38 10.80	5.81 5.20	31.24 31.38	Vigoro Regular 6-10-4	Guaranteed	6.00	10.00	4.00
D. 1. Cl			Louid 1		-		90 220	5.86 5.58	10.00 10.80 10.00	4.81 4.94
Red Steer 6-12-6 Guara	nteed 156	6.00 6.18	$12.00 \\ 12.00$	6.00 8.02	36.00 37.75		$\begin{array}{r} \overline{269} \\ 309 \end{array}$	$6.02 \\ 5.87$	10.30 9.80	$4.70 \\ 4.26$
	550 2169	6.28 6.81	$12.10 \\ 12.70$	6.46 7.80	37.24 40.35		$\begin{array}{c} 329\\ 330\end{array}$	5.82 5.67	$\begin{array}{c} 11.00\\ 10.20 \end{array}$	5.01 4.68
Red Steer 10-20-10							$338 \\ 895 \\ 2553$	$6.00 \\ 6.70 \\ 6.00$	$10.00 \\ 11.00 \\ 10.40$	$\begin{array}{r} 4.56 \\ 4.32 \\ 4.98 \end{array}$
Guara	23	$\begin{array}{c} 10.00\\ 9.18 \end{array}$	$\begin{array}{c} 20.00\\ 20.00\end{array}$	$10.00 \\ 10.29$	$ \begin{array}{r} 60.00 \\ 57.71 \\ 57.71 \end{array} $	Blenn 8-8-8	2000	0.00	10.40	4.90
	33 37	10.02 9.30	19.51 19.71	$10.49 \\ 10.60 \\ 12.98$	$59.76 \\ 57.91 \\ 58.51$		Guaranteed 46	8.00 9.12	$\begin{array}{r} 8.00\\ 12.35\end{array}$	8.00 5.71
	52 73 75	$9.45 \\ 9.48 \\ 9.63$	$\frac{18.64}{21.45}\\20.20$	12.98 11.05 13.52	60.81 61.24		747 792	$\begin{array}{c} 8.25\\ 8.02 \end{array}$	$8.00 \\ 8.00$	$\begin{array}{c} 8.40\\ 8.62\end{array}$
	158 198	9.28 9.19	20.00 19.56	11.42	58.69		$930\\1631$	7.28	8.80 8.59	$8.72 \\ 8.10$
				10.30	57.22		9979	7.23	8 30	8 71
	219 271	9.64 9.58	$\begin{array}{c} 20.00\\ 20.00 \end{array}$	$10.28 \\ 12.76$	$59.09 \\ 60.40$		$2372 \\ 2405 \\ 2615$	7.86 7.76	$8.30 \\ 8.40 \\ 8.40$	$\begin{array}{c} 8.71\\ 8.02\end{array}$
	$271 \\ 337 \\ 473$	9.58 9.72 9.66	20.00 20.00 20.00 20.00	$\begin{array}{c} 10.28 \\ 12.76 \\ 10.90 \\ 10.54 \end{array}$	59.09 60.40 59.70 59.30	Brimm 12-12-6	$\begin{array}{c} 2405\\ 2615\end{array}$	$7.86 \\ 7.76 \\ 8.00$	8.40 8.40	$8.71 \\ 8.02 \\ 9.44$
	$271 \\ 337 \\ 473 \\ 625 \\ 636$	9.58 9.72 9.66 10.44 10.04	$\begin{array}{c} 20.00\\ 20.00\\ 20.00\\ 20.00\\ 19.50\\ 20.50 \end{array}$	$10.28 \\ 12.76 \\ 10.90 \\ 10.54 \\ 10.08 \\ 12.62$	59.0960.4059.7059.30 $60.7762.29$	Brimm 12-12-6	2405	7.86 7.76	8.40	$\begin{array}{c} 8.71\\ 8.02\end{array}$
	$\begin{array}{c} 271 \\ 337 \\ 473 \\ 625 \\ 636 \\ 639 \\ 646 \\ 652 \end{array}$	9.589.729.6610.4410.049.458.989.67	$\begin{array}{c} 20.00\\ 20.00\\ 20.00\\ 19.50\\ 20.50\\ 20.00\\ 23.76\\ 20.62 \end{array}$	$10.28 \\ 12.76 \\ 10.90 \\ 10.54 \\ 10.08 \\ 12.62 \\ 10.20 \\ 12.37 \\ 10.82$	$\begin{array}{c} 59.09 \\ 60.40 \\ 59.70 \\ 59.30 \\ 60.77 \\ 62.29 \\ 58.47 \\ 62.87 \\ 60.25 \end{array}$	Pasturgro 3-12-12	2405 2615 Guaranteed 685	7.86 7.76 8.00 12.00 12.24	8.40 8.40 12.00 12.10	8.71 8.02 9.44 6.00 6.30
	$\begin{array}{c} 271 \\ 337 \\ 473 \\ 625 \\ 636 \\ 639 \\ 646 \\ 652 \\ 687 \\ 693 \end{array}$	$\begin{array}{c} 9.58\\ 9.72\\ 9.66\\ 10.44\\ 10.04\\ 9.45\\ 8.98\\ 9.67\\ 10.05\\ 10.04\end{array}$	$\begin{array}{c} 20.00\\ 20.00\\ 20.00\\ 20.00\\ 19.50\\ 20.50\\ 20.50\\ 20.62\\ 20.62\\ 20.00\\ 20.75 \end{array}$	$\begin{array}{c} 10.28\\ 12.76\\ 10.90\\ 10.54\\ 10.08\\ 12.62\\ 10.20\\ 12.37\\ 10.82\\ 10.22\\ 10.16 \end{array}$	$\begin{array}{c} 59.09\\ 60.40\\ 59.70\\ 59.30\\ 60.77\\ 62.29\\ 58.47\\ 62.87\\ 60.25\\ 60.28\\ 61.12\\ \end{array}$		2405 2615 Guaranteed	7.86 7.76 8.00 12.00	8.40 8.40 12.00	8.71 8.02 9.44 6.00
	$\begin{array}{c} 271 \\ 337 \\ 473 \\ 625 \\ 636 \\ 639 \\ 646 \\ 652 \\ 687 \\ 693 \\ 712 \\ 721 \end{array}$	$\begin{array}{c} 9.58\\ 9.72\\ 9.66\\ 10.44\\ 10.04\\ 9.45\\ 8.98\\ 9.67\\ 10.05\\ 10.04\\ 9.52\\ 10.30\\ \end{array}$	$\begin{array}{c} 20.00\\ 20.00\\ 20.00\\ 20.00\\ 19.50\\ 20.50\\ 20.00\\ 23.76\\ 20.62\\ 20.00\\ 20.75\\ 20.25\\ 20.57\end{array}$	$\begin{array}{c} 10.28\\ 12.76\\ 10.90\\ 10.54\\ 10.08\\ 12.62\\ 10.20\\ 12.37\\ 10.82\\ 10.22\\ 10.16\\ 10.82\\ 8.71 \end{array}$	$\begin{array}{c} 59.09\\ 60.40\\ 59.70\\ 59.30\\ 60.77\\ 62.29\\ 58.47\\ 62.87\\ 60.25\\ 60.28\\ 61.12\\ 59.35\\ 60.81\end{array}$	Pasturgro 3-12-12	2405 2615 Guaranteed 685 - Guaranteed 221 270 748 2168	7.867.768.0012.0012.243.002.703.012.744.74	8.40 8.40 12.00 12.10 12.00 12.20 13.00 12.00 13.00	8.71 8.02 9.44 6.00 6.30 12.00 12.10 12.10 12.30 10.08
	$\begin{array}{c} 271 \\ 337 \\ 473 \\ 625 \\ 636 \\ 639 \\ 646 \\ 652 \\ 693 \\ 712 \\ 721 \\ 746 \\ 805 \end{array}$	$\begin{array}{c} 9.58\\ 9.72\\ 9.66\\ 10.44\\ 10.04\\ 9.45\\ 8.98\\ 9.67\\ 10.05\\ 10.04\\ 9.52\\ 10.30\\ 10.00\\ 10.12\\ \end{array}$	$\begin{array}{c} 20.00\\ 20.00\\ 20.00\\ 20.00\\ 19.50\\ 20.50\\ 20.50\\ 20.00\\ 23.76\\ 20.62\\ 20.00\\ 20.75\\ 20.25\\ 20.57\\ 20.75\\ 20.00\\ \end{array}$	$\begin{array}{c} 10.28\\ 12.76\\ 10.90\\ 10.54\\ 10.08\\ 12.62\\ 10.20\\ 12.37\\ 10.82\\ 10.22\\ 10.16\\ 10.82\\ 8.71\\ 10.20\\ 10.62 \end{array}$	$\begin{array}{c} 59.09\\ 60.40\\ 59.70\\ 59.70\\ 62.29\\ 58.47\\ 60.25\\ 60.28\\ 60.28\\ 61.12\\ 59.35\\ 60.81\\ 61.02\\ 60.73\\ \end{array}$	Pasturgro 3-12-12	2405 2615 Guaranteed 685 Guaranteed 221 270 748 2168 2621 2812	$\begin{array}{c} 7.86\\ 7.76\\ 8.00\\ 12.00\\ 12.24\\ \hline 3.00\\ 2.70\\ 3.01\\ 2.74\\ 4.74\\ 3.42\\ 3.32\\ \end{array}$	8.40 8.40 12.00 12.10 12.20 13.00 12.00 13.00 12.40 12.90	8.71 8.02 9.44 6.00 6.30 12.00 12.10 12.10 12.30 10.08 10.25 14.56
	$\begin{array}{c} 271 \\ 337 \\ 473 \\ 625 \\ 636 \\ 639 \\ 646 \\ 652 \\ 687 \\ 693 \\ 712 \\ 721 \\ 746 \end{array}$	$\begin{array}{c} 9.58\\ 9.72\\ 9.66\\ 10.44\\ 10.04\\ 9.45\\ 8.98\\ 9.67\\ 10.05\\ 10.04\\ 9.52\\ 10.30\\ 10.00\\ \end{array}$	$\begin{array}{c} 20.00\\ 20.00\\ 20.00\\ 20.00\\ 19.50\\ 20.50\\ 20.50\\ 20.62\\ 20.00\\ 20.75\\ 20.25\\ 20.57\\ 20.75\end{array}$	$\begin{array}{c} 10.28\\ 12.76\\ 10.90\\ 10.54\\ 10.08\\ 12.62\\ 10.20\\ 12.37\\ 10.82\\ 10.22\\ 10.16\\ 10.82\\ 8.71\\ 10.20\\ \end{array}$	$\begin{array}{c} 59.09\\ 60.40\\ 59.70\\ 59.30\\ 60.77\\ 62.29\\ 58.47\\ 62.87\\ 60.25\\ 60.28\\ 61.12\\ 59.35\\ 60.81\\ 61.02\end{array}$	Pasturgro 3-12-12	2405 2615 Guaranteed 685 Guaranteed 221 270 748 2168 2621 2812 2812 2816	$\begin{array}{c} 7.86\\ 7.76\\ 8.00\\ 12.00\\ 12.24\\ \hline 3.00\\ 2.70\\ 3.01\\ 2.74\\ 4.74\\ 3.42\\ \end{array}$	8.40 8.40 12.00 12.10 12.20 13.00 12.00 13.00 12.40	8.71 8.02 9.44 6.00 6.30 12.00 12.10 12.10 12.30 10.08 10.25
ALL LANGE AND ALL AND	$\begin{array}{c} 271\\ 337\\ 473\\ 625\\ 636\\ 639\\ 646\\ 652\\ 687\\ 712\\ 721\\ 721\\ 746\\ 805\\ 835\\ 1607\\ 1689\\ 1935 \end{array}$	$\begin{array}{c} 9.58\\ 9.72\\ 9.66\\ 10.44\\ 10.04\\ 9.45\\ 8.98\\ 9.67\\ 10.05\\ 10.05\\ 10.05\\ 10.00\\ 10.12\\ 10.00\\ 10.40\\ 9.68\\ 10.62\\ 8.52 \end{array}$	$\begin{array}{c} 20.00\\ 20.00\\ 20.00\\ 19.50\\ 20.00\\ 20.00\\ 20.50\\ 20.00\\ 23.76\\ 20.62\\ 20.075\\ 20.25\\ 20.25\\ 20.57\\ 20.75\\ 20.75\\ 20.00\\ 20.00\\ 20.02\\ 18.80\\ 20.00\\ 20.11\\ 1\end{array}$	$\begin{array}{c} 10.28\\ 12.76\\ 10.90\\ 10.54\\ 10.08\\ 12.62\\ 10.20\\ 12.37\\ 10.82\\ 10.22\\ 10.16\\ 10.82\\ 8.71\\ 10.20\\ 10.62\\ 9.82\\ 9.61\\ 10.00\\ 8.40\\ 11.18\\ \end{array}$	$\begin{array}{c} 59.09\\ 60.40\\ 59.70\\ 59.30\\ 60.77\\ 62.29\\ 58.47\\ 62.87\\ 60.25\\ 60.28\\ 61.12\\ 59.35\\ 60.81\\ 61.02\\ 60.73\\ 59.89\\ 61.27\\ 57.60\\ 60.90\\ 57.60\\ \end{array}$	Pasturgro 3-12-12	2405 2615 Guaranteed 685 Guaranteed 221 270 748 2168 2621 2812 2812 2816 rt, Louisiana	7.86 7.76 8.00 12.24 3.00 2.70 3.01 2.74 4.74 4.74 3.32 3.16	8.40 8.40 12.00 12.10 12.00 12.20 13.00 12.00 13.00 12.40 12.90 12.90	$\begin{array}{c} 8.71\\ 8.02\\ 9.44\\ \hline \\ 6.00\\ 6.30\\ 12.10\\ 12.10\\ 12.10\\ 12.30\\ 10.08\\ 10.25\\ 14.55\\ 11.53\\ \end{array}$
ter least state and the second state	$\begin{array}{c} 271\\ 337\\ 473\\ 625\\ 639\\ 646\\ 652\\ 687\\ 693\\ 712\\ 721\\ 721\\ 746\\ 805\\ 835\\ 838\\ 1607\\ 1689\\ 1985\\ 1955\end{array}$	$\begin{array}{c} 9.58\\ 9.72\\ 9.66\\ 10.44\\ 10.04\\ 9.45\\ 8.98\\ 9.67\\ 10.05\\ 10.05\\ 10.05\\ 10.00\\ 10.12\\ 10.30\\ 10.00\\ 10.40\\ 9.68\\ 8.52\\ 9.60\\ 8.38\end{array}$	$\begin{array}{c} 20.00\\ 20.00\\ 20.00\\ 20.00\\ 19.50\\ 20.00\\ 20.00\\ 23.76\\ 20.62\\ 20.05\\ 20.25\\ 20.57\\ 20.25\\ 20.57\\ 20.75\\ 20.00\\ 20.25\\ 18.80\\ 20.00\\ 21.11\\ 20.50\\ 22.00\\ \end{array}$	$\begin{array}{c} 10.28\\ 12.76\\ 10.90\\ 10.54\\ 10.08\\ 12.62\\ 10.20\\ 12.37\\ 10.22\\ 10.22\\ 10.22\\ 10.22\\ 10.22\\ 10.22\\ 9.61\\ 10.20\\ 9.82\\ 9.61\\ 10.00\\ 8.40\\ 11.18\\ 10.02\\ 10.12\\ \end{array}$	$\begin{array}{c} 59.09\\ 60.40\\ 59.70\\ 59.30\\ 60.77\\ 62.29\\ 58.47\\ 62.87\\ 60.25\\ 60.28\\ 61.12\\ 59.35\\ 60.81\\ 61.02\\ 60.73\\ 59.89\\ 60.73\\ 59.89\\ 61.27\\ 57.60\\ 60.90\\ 57.60\\ 59.41\\ 57.61\end{array}$	Pasturgro 3-12-12 Swift & Company, Shrevepo	2405 2615 Guaranteed 685 Guaranteed 221 270 748 2168 2621 2812 2812 2816	$\begin{array}{c} 7.86\\ 7.76\\ 8.00\\ 12.00\\ 12.24\\ \hline 3.00\\ 2.70\\ 3.01\\ 2.74\\ 4.74\\ 3.42\\ 3.32\\ \end{array}$	8.40 8.40 12.00 12.10 12.20 13.00 12.00 13.00 12.40 12.90	8.71 8.02 9.44 6.00 6.30 12.00 12.10 12.10 12.30 10.08 10.25 14.56
	$\begin{array}{c} 271\\ 337\\ 473\\ 625\\ 639\\ 646\\ 652\\ 687\\ 693\\ 712\\ 721\\ 746\\ 805\\ 838\\ 835\\ 838\\ 1607\\ 1689\\ 1935\\ 1950\\ 1950\\ 1952\\ 1952\\ 1957\end{array}$	$\begin{array}{c} 9.58\\ 9.72\\ 9.66\\ 10.44\\ 10.04\\ 9.45\\ 8.98\\ 9.67\\ 10.05\\ 10.05\\ 10.04\\ 9.52\\ 10.30\\ 10.00\\ 10.10\\ 10.40\\ 10.62\\ 8.52\\ 9.60\\ 8.38\\ 9.20\\ 7.32 \end{array}$	$\begin{array}{c} 20.00\\ 20.00\\ 20.00\\ 20.00\\ 19.50\\ 20.50\\ 20.00\\ 23.76\\ 20.62\\ 20.02\\ 20.75\\ 20.25\\ 20.25\\ 20.75\\ 20.75\\ 20.75\\ 20.00\\ 20.20\\ 20.00\\ 20.00\\ 21.11\\ 20.50\\ 22.00\\ 18.39\\ 19.45 \end{array}$	$\begin{array}{c} 10.28\\ 12.76\\ 10.90\\ 10.54\\ 10.08\\ 12.62\\ 10.20\\ 10.237\\ 10.82\\ 10.22\\ 10.16\\ 10.82\\ 8.71\\ 10.20\\ 10.62\\ 9.82\\ 9.61\\ 10.00\\ 8.40\\ 11.18\\ 10.02\\ 10.12\\ 9.30\\ 10.12\\ 9.30\\ 10.00\\ \end{array}$	$\begin{array}{c} 59.09\\ 60.40\\ 59.70\\ 59.30\\ 60.77\\ 62.29\\ 58.47\\ 62.87\\ 60.25\\ 60.28\\ 61.12\\ 59.35\\ 61.22\\ 60.81\\ 61.02\\ 60.73\\ 59.89\\ 61.27\\ 57.60\\ 60.90\\ 57.61\\ 55.25\\ 51.30\end{array}$	Pasturgro 3-12-12 Swift & Company, Shrevepo	2405 2615 Guaranteed 685 Guaranteed 221 270 748 2621 2812 2816 rt, Louisiana Guaranteed Guaranteed	7.86 7.76 8.00 12.00 12.24 3.00 2.70 2.74 4.74 4.74 4.74 3.32 3.16 0.00 0.00 15.00	8.40 8.40 12.00 12.10 12.20 13.00 12.20 13.00 12.40 12.90 12.90 12.90 14.00 14.00 14.00	8.71 8.02 9.44 6.00 6.30 12.10 12.10 12.10 12.10 12.10 12.10 12.10 12.10 12.10 12.10 12.10 12.10 12.10 12.10 12.10 12.10 7.20 7.26 0.02 7.26
	$\begin{array}{c} 271\\ 337\\ 473\\ 625\\ 636\\ 639\\ 646\\ 652\\ 687\\ 712\\ 721\\ 721\\ 721\\ 721\\ 805\\ 835\\ 1950\\ 1950\\ 1950\\ 1955\\ 1950\\ 1955\\ 1955\\ 1955\\ 1955\\ 1955\\ 1955\\ 1955\\ 1955\\ 2011\\ 2024\\ 2029 \end{array}$	$\begin{array}{c} 9.58\\ 9.72\\ 9.66\\ 10.44\\ 10.04\\ 9.45\\ 8.98\\ 9.67\\ 10.05\\ 10.05\\ 10.00\\ 10.12\\ 10.00\\ 10.12\\ 10.00\\ 10.12\\ 10.00\\ 10.40\\ 9.68\\ 8.52\\ 9.60\\ 8.38\\ 9.20\\ 7.32\\ 9.04\\ 8.60\\ 9.35\\ \end{array}$	$\begin{array}{c} 20.00\\ 20.00\\ 20.00\\ 20.00\\ 20.00\\ 20.00\\ 20.00\\ 20.50\\ 20.60\\ 20.62\\ 20.62\\ 20.00\\ 20.75\\ 20.75\\ 20.75\\ 20.57\\ 20.57\\ 20.57\\ 20.57\\ 20.57\\ 20.50\\ 10.25\\ 18.80\\ 20.00\\ 20.25\\ 18.80\\ 20.00\\ 11.11\\ 20.50\\ 21.111\\ 22.50\\ 19.25\\ 22.50\\ 19.45\\ 22.50\\ 19.25\\ 21.50\\ \end{array}$	$\begin{array}{c} 10.28\\ 10.28\\ 12.76\\ 10.90\\ 10.54\\ 10.08\\ 12.62\\ 10.20\\ 10.20\\ 10.22\\ 10.22\\ 10.22\\ 10.22\\ 10.22\\ 10.22\\ 10.22\\ 9.61\\ 10.62\\ 9.61\\ 10.00\\ 8.40\\ 0.00\\ 8.40\\ 11.18\\ 10.02\\ 9.61\\ 10.02\\ 9.30\\ 10.02\\ 9.32\\ 10.$	$\begin{array}{c} 59.09\\ 60.40\\ 59.70\\ 59.30\\ 60.77\\ 62.29\\ 58.47\\ 62.87\\ 60.25\\ 60.28\\ 61.12\\ 59.35\\ 60.81\\ 61.02\\ 60.73\\ 59.89\\ 60.73\\ 57.60\\ 60.90\\ 57.60\\ 59.41\\ 55.25\\ 51.30\\ 60.13\\ 54.49\\ 60.07\\ \end{array}$	Pasturgro 3-12-12 Swift & Company, Shrevepo Swift's Red Steer 0-14-7 Swift's Red Steer 15-15-0	2405 2615 Guaranteed 685 Guaranteed 221 2700 748 2168 2621 2816 rt, Louisiana Guaranteed 300 Guaranteed 1462 1596	7.86 7.76 8.00 12.24 3.00 2.70 2.74 4.74 4.74 4.74 3.32 3.316 0.00 0.00 15.00 14.77 14.51	8.40 8.40 12.00 12.10 12.00 12.20 13.00 12.00 12.00 12.00 12.90 12.90 12.90 12.90 12.90 12.90 12.90 12.90 12.90 12.90 12.90 12.90 12.00 12.10	8.71 8.02 9.44 6.00 6.30 12.00 12.10 12.10 12.10 12.10 12.30 10.08 10.25 14.56 14.56 14.56 14.56 14.56 14.56 0.00 7.26
	$\begin{array}{c} 271\\ 337\\ 473\\ 625\\ 636\\ 639\\ 646\\ 652\\ 687\\ 712\\ 721\\ 721\\ 746\\ 805\\ 835\\ 1607\\ 1985\\ 1985\\ 1985\\ 1985\\ 1985\\ 1985\\ 1985\\ 1985\\ 1985\\ 1997\\ 2011\\ 2024\\ 2029\\ 2071\\ 2073\\ \end{array}$	$\begin{array}{c} 9.58\\ 9.72\\ 9.66\\ 10.44\\ 10.04\\ 410.05\\ 10.05\\ 10.05\\ 10.05\\ 10.00\\ 10.12\\ 10.00\\ 10.12\\ 10.00\\ 10.12\\ 10.00\\ 10.40\\ 9.68\\ 8.52\\ 9.60\\ 8.38\\ 9.20\\ 9.04\\ 8.60\\ 9.35\\ 9.56\\ 10.12\\ \end{array}$	$\begin{array}{c} 20.00\\ 20.00\\ 20.00\\ 20.00\\ 20.00\\ 20.00\\ 20.75\\ 20.50\\ 20.62\\ 20.75\\ 20.75\\ 20.75\\ 20.75\\ 20.75\\ 20.75\\ 20.75\\ 20.75\\ 18.80\\ 20.00\\ 20.20\\ 20.00\\ 20.20\\ 18.39\\ 19.25\\ 22.50\\ 19.25\\ 20.25\\ 20.25\\ \end{array}$	$\begin{array}{l} 10.28\\ 10.28\\ 12.76\\ 10.90\\ 10.54\\ 10.08\\ 12.62\\ 10.20\\ 12.37\\ 10.82\\ 10.22\\ 10.22\\ 10.22\\ 10.28\\ 8.71\\ 10.82\\ 8.71\\ 10.62\\ 9.81\\ 10.02\\ 9.81\\ 10.02\\ 9.61\\ 11.18\\ 10.02\\ 9.30\\ 11.18\\ 10.02\\ 9.30\\ 10.38\\ 10.38\\ 10.02\\ 9.32\\ 10.36\\ 10.00\\ 10.38\\ 10.02\\ 10.38\\ 10.02\\ 10.38\\ 10.02\\ 10.38\\ 10.02\\ 10.38\\ 10.02\\ 10.38\\ 10.02\\ 10.38\\ 10.02\\ 10.38\\ 10.02\\ 10.38\\ 10.02\\ 10.38\\ 10.02\\ 10.38\\ 10.02\\ 10.38\\ 10.02\\ 10.38\\ 10.02\\ 10.38\\ 10.02\\ 10.38\\ 10.02\\ 10.38\\ 10.02\\ 10.38\\ 10.02\\ 10.38\\ 10.02\\ 10.$	$\begin{array}{c} 59.09\\ 60.40\\ 59.70\\ 59.30\\ 60.77\\ 62.29\\ 58.47\\ 62.87\\ 60.25\\ 60.28\\ 61.12\\ 59.35\\ 60.81\\ 61.02\\ 60.73\\ 59.89\\ 61.27\\ 57.60\\ 60.73\\ 57.60\\ 59.41\\ 57.61\\ 55.25\\ 57.60\\ 60.13\\ 54.49\\ 60.07\\ 58.98\\ 60.89\end{array}$	Pasturgro 3-12-12 Swift & Company, Shrevepo Swift's Red Steer 0-14-7 Swift's Red Steer 15-15-0	2405 2615 Guaranteed 685 Guaranteed 221 270 748 2168 2621 2812 2812 2816 rt, Louisiana Guaranteed 300 Guaranteed 1462 1596 1639 1658	7.86 7.76 8.00 12.00 12.24 3.00 2.70 3.01 2.74 4.74 3.32 3.16 0.00 0.00 15.00 14.77 14.51 15.00	8.40 8.40 12.00 12.10 12.00 12.20 13.00 12.20 13.00 12.40 12.90 12.90 12.90 12.90 12.90 12.90 12.90 12.90 12.90 12.90 12.90 12.90 12.90 12.00 12.10	8.71 8.02 9.44 6.00 6.30 12.00 12.10 12.10 12.30 10.08 10.28 10.28 11.53 7.00 7.26 0.00 0.00 0.00 0.00
	$\begin{array}{c} 271\\ 337\\ 473\\ 473\\ 625\\ 636\\ 639\\ 646\\ 652\\ 687\\ 712\\ 721\\ 746\\ 805\\ 838\\ 1607\\ 1950\\ 1952\\ 1950\\ 1952\\ 1954\\ 1950\\ 1952\\ 1954\\ 2024\\ 2029\\ 20011\\ 20029\\ 20073\\ 2082\\ 2073\\ 2082\\ 2140 \end{array}$	$\begin{array}{c} 9.58\\ 9.72\\ 9.66\\ 10.44\\ 9.45\\ 8.98\\ 9.67\\ 10.05\\ 10.05\\ 10.00\\ 10.10\\ 10.00\\ 10.12\\ 10.00\\ 10.12\\ 10.00\\ 10.40\\ 9.68\\ 8.52\\ 9.60\\ 8.38\\ 9.20\\ 7.32\\ 9.04\\ 8.60\\ 9.35\\ 9.56\\ 10.12\\ 8.84\\ 10.00\\ \end{array}$	$\begin{array}{c} 20.00\\ 20.00\\ 20.00\\ 20.00\\ 20.00\\ 20.00\\ 20.50\\ 20.50\\ 20.50\\ 20.50\\ 20.75\\ 20.25\\ 20.25\\ 20.57\\ 20.75\\ 20.75\\ 20.00\\ 20.20\\ 20.00\\ 20.20\\ 20.00\\ 21.11\\ 20.50\\ 22.00\\ 19.45\\ 22.50\\ 19.45\\ 22.55\\ 20.25\\ 20.25\\ 20.25\\ 20.25\\ 22.61\\ 21.31\\ \end{array}$	$\begin{array}{c} 10.28\\ 12.76\\ 10.90\\ 10.54\\ 10.08\\ 12.62\\ 10.20\\ 12.37\\ 10.82\\ 10.22\\ 10.22\\ 10.22\\ 10.22\\ 10.22\\ 10.23\\ 10.20\\ 9.82\\ 9.61\\ 10.00\\ 10.62\\ 9.82\\ 9.82\\ 9.84\\ 10.00\\ 10.02\\ 10.12\\ 9.30\\ 10.00\\ 10.02\\ 9.32\\ 10.36\\ 10.00\\ 10.38\\ 8.78\\ 10.08\\ 10.08\\ \end{array}$	$\begin{array}{c} 59.09\\ 60.40\\ 59.70\\ 59.70\\ 62.29\\ 60.77\\ 62.29\\ 62.87\\ 60.25\\ 60.28\\ 61.12\\ 59.35\\ 60.81\\ 61.02\\ 60.81\\ 61.02\\ 60.73\\ 59.89\\ 61.27\\ 57.60\\ 60.90\\ 57.60\\ 59.41\\ 57.61\\ 55.25\\ 51.30\\ 60.13\\ 55.25\\ 51.30\\ 60.13\\ 54.49\\ 60.07\\ 58.98\\ 60.89\\ 58.92\\ 61.62\\ \end{array}$	Pasturgro 3-12-12 Swift & Company, Shrevepo Swift's Red Steer 0-14-7 Swift's Red Steer 15-15-0	2405 2615 Guaranteed 685 Guaranteed 221 270 748 2168 2621 2812 2816 rt, Louisiana Guaranteed 300 Guaranteed 1462 1596 1639	$\begin{array}{c} 7.86\\ 7.76\\ 8.00\\ 12.00\\ 12.24\\ \hline \\ 3.00\\ 2.70\\ 3.01\\ 2.74\\ 4.74\\ 4.74\\ 3.32\\ 3.16\\ \hline \\ 0.00\\ 0.00\\ \hline \\ 15.00\\ 14.77\\ 14.51\\ 15.00\\ \end{array}$	8.40 8.40 12.00 12.10 12.20 12.20 12.20 12.00 12.00 12.00 12.90 12.90 12.90 12.90 12.90 12.90 12.90 12.90 12.90 12.50 12.50	8.71 8.02 9.44 6.00 6.30 12.10 12.10 12.10 12.10 12.30 10.05 14.56 11.53 7.00 7.26 0.00 0.00 0.00
	$\begin{array}{c} 271\\ 387\\ 473\\ 473\\ 625\\ 636\\ 639\\ 646\\ 652\\ 687\\ 712\\ 746\\ 805\\ 838\\ 835\\ 838\\ 1607\\ 1689\\ 1935\\ 1950\\ 1952\\ 1954\\ 1997\\ 2024\\ 2029\\ 2024\\ 2029\\ 2024\\ 2029\\ 2071\\ 2073\\ 2082\\ 2024\\ 2029\\ 2071\\ 2073\\ 2082\\ 2140\\ 2167\\ 2170\\ \end{array}$	$\begin{array}{l} 9.58\\ 9.72\\ 9.66\\ 10.44\\ 9.45\\ 8.98\\ 9.67\\ 10.05\\ 4.98\\ 9.67\\ 10.00\\ 10.12\\ 10.00\\ 10.12\\ 10.00\\ 10.40\\ 9.52\\ 10.00\\ 10.40\\ 9.68\\ 10.62\\ 8.52\\ 9.60\\ 8.38\\ 9.20\\ 7.32\\ 9.64\\ 8.60\\ 9.35\\ 9.56\\ 10.12\\ 8.86\\ 9.56\\ 10.12\\ 8.84\\ 9.34\\ \end{array}$	$\begin{array}{c} 20.00\\ 20.00\\ 20.00\\ 20.00\\ 20.00\\ 20.00\\ 20.00\\ 20.50\\ 20.50\\ 20.00\\ 20.75\\ 20.25\\ 20.25\\ 20.25\\ 20.00\\ 20.00\\ 20.00\\ 20.00\\ 20.00\\ 20.00\\ 20.00\\ 20.25\\ 20.00\\ 18.39\\ 19.45\\ 22.50\\ 19.25\\ 20$	$\begin{array}{l} 10.28\\ 10.28\\ 12.76\\ 10.90\\ 10.54\\ 10.08\\ 12.62\\ 10.20\\ 10.20\\ 10.237\\ 10.82\\ 10.22\\ 10.16\\ 10.82\\ 10.22\\ 10.16\\ 10.82\\ 10.28\\ 8.71\\ 10.00\\ 10.62\\ 9.82\\ 9.61\\ 10.00\\ 10.62\\ 9.82\\ 9.61\\ 10.00\\ 10.30\\ 8.70\\ 10.00\\ 10.38\\ 8.78\\ 10.08\\ 10.08\\ 10.08\\ 10.08\\ 10.02\\ 10.92\\ \end{array}$	$\begin{array}{c} 59.09\\ 60.40\\ 59.70\\ 59.70\\ 59.30\\ 60.77\\ 62.29\\ 58.47\\ 62.87\\ 60.25\\ 60.28\\ 61.12\\ 59.35\\ 60.28\\ 61.12\\ 59.35\\ 60.89\\ 61.27\\ 57.60\\ 59.41\\ 57.61\\ 55.25\\ 51.30\\ 60.90\\ 57.61\\ 55.25\\ 51.30\\ 60.13\\ 54.49\\ 60.07\\ 58.98\\ 60.89\\ 58.92\\ 61.62\\ 59.18\\ 59.77\end{array}$	Pasturgro 3-12-12 Swift & Company, Shrevepo Swift's Red Steer 0-14-7 Swift's Red Steer 15-15-0	2405 2615 Guaranteed 685 Guaranteed 221 2700 748 2168 2621 2816 rt, Louisiana Guaranteed 1462 1656 1659 1658 1663	$\begin{array}{c} 7.86\\ 7.76\\ 8.00\\ 12.00\\ 12.24\\ \hline \\ 3.00\\ 2.70\\ 3.01\\ 2.74\\ 4.74\\ 4.74\\ 3.42\\ 3.32\\ 3.16\\ \hline \\ 0.00\\ 0.00\\ 15.00\\ 14.77\\ 14.51\\ 15.00\\ 14.72\\ 14.84\\ 14.00\\ \end{array}$	8.40 8.40 12.00 12.10 12.20 12.20 12.20 12.00 12.00 12.00 12.90 12.90 12.90 12.90 12.90 12.90 12.90 12.90 12.90 12.90 12.90 12.90 12.90 12.00 12.10	$\begin{array}{c} 8.71\\ 8.02\\ 9.44\\ \hline \\ 6.00\\ 6.30\\ \hline \\ 12.00\\ 12.10\\ 12.10\\ 12.10\\ 12.10\\ 12.10\\ 12.10\\ 12.10\\ 12.5\\ 10.25\\ 14.56\\ 11.53\\ \hline \\ 7.00\\ 7.26\\ \hline \\ 0.00\\ 0.$
	$\begin{array}{c} 271\\ 337\\ 473\\ 625\\ 636\\ 639\\ 646\\ 652\\ 687\\ 693\\ 712\\ 721\\ 721\\ 835\\ 185\\ 1950\\ 1955\\ 1950\\ 1955\\ 1955\\ 1955\\ 1955\\ 1955\\ 1955\\ 1955\\ 1955\\ 2011\\ 2029\\ 2071\\ 2029\\ 2071\\ 2029\\ 2073\\ 2029\\ 2073\\ 2082\\ 2140\\ 2167\\ \end{array}$	$\begin{array}{l} 9.58\\ 9.72\\ 9.66\\ 10.44\\ 10.04\\ 9.45\\ 8.98\\ 9.67\\ 10.05\\ 10.05\\ 10.00\\ 10.12\\ 10.00\\ 10.12\\ 10.00\\ 10.12\\ 10.00\\ 8.52\\ 9.60\\ 8.38\\ 9.20\\ 9.64\\ 8.65\\ 9.56\\ 10.12\\ 8.84\\ 10.00\\ 9.12\\ \end{array}$	$\begin{array}{c} 20.00\\ 20.00\\ 20.00\\ 20.00\\ 20.00\\ 20.00\\ 20.00\\ 20.50\\ 20.60\\ 20.62\\ 20.62\\ 20.00\\ 20.75\\ 20.75\\ 20.75\\ 20.57\\ 20.75\\ 20.57\\ 20.57\\ 20.57\\ 20.50\\ 12.50\\ 20.25\\ 25.50\\ 19.25\\ 22.50\\ 19.25\\ 20$	$\begin{array}{l} 10.28\\ 10.28\\ 12.76\\ 10.90\\ 10.54\\ 10.08\\ 12.62\\ 10.20\\ 10.20\\ 10.22\\ 10.16\\ 10.82\\ 10.22\\ 10.16\\ 10.82\\ 9.61\\ 10.62\\ 9.81\\ 10.62\\ 9.81\\ 10.00\\ 8.40\\ 10.02\\ 9.30\\ 10.02\\ 9.30\\ 10.02\\ 9.32\\ 10.02\\ 9.32\\ 10.00\\ 10.02\\ 9.32\\ 10.00\\ 10.02\\ 9.32\\ 10.00\\ 10.02\\ 9.32\\ 10.00\\ 10.00\\ 10.02\\ 9.32\\ 10.00\\ 10.00\\ 10.00\\ 10.38\\ 8.78\\ 10.04\\ 1$	$\begin{array}{c} 59.09\\ 60.40\\ 59.70\\ 59.30\\ 60.77\\ 62.29\\ 58.47\\ 60.25\\ 60.28\\ 61.12\\ 59.35\\ 60.28\\ 61.12\\ 59.35\\ 60.81\\ 61.02\\ 60.73\\ 59.89\\ 61.27\\ 57.60\\ 60.90\\ 57.60\\ 55.25\\ 51.30\\ 60.13\\ 54.49\\ 60.07\\ 58.98\\ 60.13\\ 54.49\\ 60.07\\ 58.98\\ 60.89\\ 58.92\\ 61.62\\ 59.18\\ \end{array}$	Pasturgro 3-12-12 Swift & Company, Shrevepo Swift's Red Steer 0-14-7 Swift's Red Steer 15-15-0	2405 2615 Guaranteed 685 Guaranteed 221 2700 748 2168 2621 2816 rt, Louisiana Guaranteed 1462 1656 1639 1658 1663	$\begin{array}{c} 7.86\\ 7.76\\ 8.00\\ 12.00\\ 12.24\\ \hline \\ 3.00\\ 2.70\\ 2.74\\ 4.74\\ 4.74\\ 3.42\\ 3.32\\ 3.16\\ \hline \\ 0.00\\ 0.00\\ 15.00\\ 14.77\\ 14.51\\ 15.00\\ 14.72\\ 14.84\\ \end{array}$	8.40 8.40 12.00 12.10 12.00 12.20 13.00 12.00 12.00 12.00 12.90 12.90 12.90 12.90 12.90 12.90 12.90 12.90 12.90 12.50 15.55 15.57 15.55 15.55 15.55 15.57 15.55 15.57 15.55 15.57 15.55 15.55 15.57 15.55 15.55 15.57 15.55 15	8.71 8.02 9.44 6.00 6.30 12.10 12.10 12.10 12.10 12.10 12.10 12.10 12.10 12.10 12.10 12.10 12.5 14.56 11.53 7.00 7.26 0.00 0.00 0.00 0.00 0.00 0.00

anufacturer, place of busin and brand	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	P'otash, percent	Valuation found per ton, dollars	Manufacturer, place of business and brand	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	P'otash, percent	
wift's Red Steer 8-8-8	979 986 987 1077 1208 1219 1231 1318 1439	8.02 7.80 8.02 7.72 7.81 7.24 8.01 8.08 8.00	9.00 10.38 8.10 8.40 8.50 8.10 8.50 8.50 8.50 8.50 9.00	8.16 6.93 8.80 8.00 8.16 8.62 8.00 8.38 7.52	39.76 40.01 39.06 38.04 38.53 36.61 39.03 39.47 39.31		2620 2661 2675 2676 2732 2737 2746 2755 2760	$5.04 \\ 5.00 \\ 5.78 \\ 5.00 \\ 4.86 \\ 5.20 \\ 4.74 \\ 5.10 \\ 4.76$	$10.50 \\ 10.50 \\ 11.00 \\ 11.00 \\ 11.19 \\ 10.80 \\ 10.60 \\ 10.17 \\ 11.00$	5.80 6.43 6.85 6.96 5.47 5.80 5.20 5.71 5.16	
	$1598 \\ 1985 \\ 2034 \\ 2039 \\ 2063 \\ 2120 \\ 2296 \\ 2311 \\ 2438 \\ 2447 \\ $	8.62 8.00 7.84 7.54 7.70 8.20 7.65 7.75 7.63 7.76	8.30 8.50 8.40 8.50 8.30 9.20 8.10 9.00 8.60	8.00 8.18 8.50 8.70 8.08 9.98 8.36 8.50 7.95 8.48	$\begin{array}{c} 40.62\\ 39.11\\ 38.70\\ 38.04\\ 37.91\\ 40.19\\ 39.01\\ 38.07\\ 38.46\\ 38.69 \end{array}$		anteed 1327 1601 1641 1681 1694 1703	$\begin{array}{c} 6.00 \\ 6.44 \\ 6.66 \\ 6.26 \\ 7.34 \\ 6.44 \\ 6.86 \end{array}$	$12.00 \\ 12.10 \\ 12.07 \\ 12.30 \\ 12.00 \\ 12.80 \\ 12.0$	$\begin{array}{c} 6.00 \\ 6.30 \\ 6.95 \\ 5.85 \\ 4.80 \\ 6.15 \\ 6.41 \end{array}$	
Swift's Red Steer 10-30-0	$2671 \\ 2733 \\ 2738 \\ 2848$	$8.01 \\ 8.20 \\ 8.16 \\ 8.00$	$9.10 \\ 9.34 \\ 9.16 \\ 8.50$	7.78 8.18 8.40 8.66	$\begin{array}{c} 39.62 \\ 40.72 \\ 40.51 \\ 39.40 \end{array}$	Swift's Red Steer 10-20-10 Guar:	anteed 18 529 600 1062 1076	10.00 8.92 9.68 9.20 10.00 9.40	$\begin{array}{r} 20.00\\ 20.55\\ 20.25\\ 20.50\\ 18.10\\ 20.50\end{array}$	$10.00 \\ 11.36 \\ 10.66 \\ 10.90 \\ 10.62 \\ 9.04$	
Swift's Red Steer 12-12-12	Guaranteed 1464 Guaranteed	10.00 9.21 12.00	30.00 30.00 12.00	0.00 0.00 12.00	66.00 63.63 57.60	n an	$1171 \\ 1171 \\ 1197 \\ 1218 \\ 1258$	$9.58 \\ 9.58 \\ 10.00 \\ 8.82 \\ 9.26$	$20.00 \\ 20.00 \\ 20.00 \\ 17.80 \\ 21.99$	$10.60 \\ 10.60 \\ 11.40 \\ 9.64 \\ 11.16$	
	$\begin{array}{r} 348\\ 1600\\ 1608\\ 1662\\ 2062\\ 2245\\ 2293\end{array}$	$11.49 \\ 11.26 \\ 11.24 \\ 11.20 \\ 11.17 \\ 12.44 \\ 11.85$	$\begin{array}{c} 14.34 \\ 12.70 \\ 13.12 \\ 12.80 \\ 12.90 \\ 12.00 \\ 12.10 \end{array}$	$\begin{array}{c} 12.10 \\ 12.30 \\ 11.58 \\ 12.00 \\ 12.00 \\ 13.21 \\ 12.10 \end{array}$	58.94 56.40 56.41 56.16 56.19 59.65 57.63		$1317 \\1326 \\1365 \\1367 \\1522 \\1599 \\1611 \\1678$	$9.70 \\ 9.48 \\ 8.79 \\ 9.10 \\ 10.00 \\ 9.67 \\ 9.80 \\ 8.94$	$\begin{array}{c} 20.50 \\ 20.25 \\ 22.00 \\ 22.50 \\ 20.50 \\ 20.27 \\ 20.00 \\ 21.25 \end{array}$	$10.58 \\ 10.58 \\ 11.16 \\ 10.22 \\ 10.00 \\ 11.36 \\ 11.40 \\ 10.12$	
wift's Red Steer 10-20-0	Guaranteed 1463 1597 1640 1680 2294	$10.00 \\ 10.00 \\ 10.41 \\ 10.16 \\ 10.18 \\ 9.78$	$\begin{array}{c} 20.00\\ 20.00\\ 21.00\\ 20.00\\ 21.75\\ 18.80\end{array}$	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\end{array}$	54.00 54.00 56.43 54.48 56.64 51.90		$1679 \\1875 \\1924 \\2038 \\2057 \\2061 \\2244 \\2292 \\2310$	$10.36 \\ 10.04 \\ 9.65 \\ 10.00 \\ 10.02 \\ 9.77 \\ 8.50 \\ 10.40 \\ 9.72$	$\begin{array}{c} 20.00\\ 20.00\\ 21.25\\ 20.00\\ 20.00\\ 16.36\\ 20.39\\ 20.00\\ 20.00\\ 20.00 \end{array}$	$10.20 \\ 10.22 \\ 10.20 \\ 10.87 \\ 10.42 \\ 10.50 \\ 12.78 \\ 10.68 \\ 10.42 \\$	
wift's Red Steer 5-10-5	Guaranteed 17 301 347 369	5.00 4.83 4.32 4.66 4.37	$10.00 \\ 10.15 \\ 10.70 \\ 10.80 \\ 10.64$	5.00 5.60 6.05 5.30 5.68	30.00 30.03 29.43 30.12 29.29	Swift's Red Steer 5-10-10	2437 2572 2734	$10.02 \\ 10.00 \\ 10.72$	20.00 20.00 20.00	10.82 11.62 10.46	
	$\begin{array}{c} 889\\ 900\\ 923\\ 931\\ 944\\ 980\\ 988\\ 1041\end{array}$	$\begin{array}{r} 4.67 \\ 4.65 \\ 5.28 \\ 4.72 \\ 5.54 \\ 5.44 \\ 5.48 \\ 5.20 \end{array}$	$\begin{array}{c} 10.00\\ 10.00\\ 10.00\\ 11.00\\ 10.00\\ 10.80\\ 10.20\\ 10.00\\ \end{array}$	5.85 5.58 5.30 5.10 6.70 6.15 5.68 6.40	$\begin{array}{c} 30.12\\ 29.30\\ 31.02\\ 30.42\\ 32.64\\ 32.97\\ 32.09\\ 31.44 \end{array}$		anteed 1048 1207 2118 2297 2468 2651	5.00 4.44 5.24 5.76 5.66 5.68 5.00	$10.00 \\ 10.00 \\ 10.20 \\ 9.57 \\ 10.80 \\ 10.10 \\ 11.20$	$10.00 \\ 11.91 \\ 10.18 \\ 10.74 \\ 11.00 \\ 10.04 \\ 8.98$	
	$\begin{array}{c} 1049\\ 1063\\ 1075\\ 1079\\ 1170\\ 1177\\ 1192\\ 1209\\ 1216\\ 1220\\ 1295\\ \end{array}$	$5.12 \\ 5.38 \\ 5.00 \\ 5.18 \\ 5.00 \\ 5.01 \\ 5.34 \\ 5.00 \\ 4.80 \\ 4.80 \\ 4.78 \\ $	$\begin{array}{c} 10.20\\ 10.30\\ 10.20\\ 10.10\\ 10.40\\ 10.00\\ 10.20\\ 10.50\\ 12.60\\ 10.51\\ 10.70\\ \end{array}$	$5.29 \\ 5.11 \\ 5.00 \\ 5.41 \\ 5.29 \\ 5.11 \\ 5.06 \\ 4.87 \\ 5.43 \\ 5.29 $	$\begin{array}{c} 30.77\\ 31.57\\ 30.31\\ 30.66\\ 30.73\\ 30.20\\ 31.33\\ 30.64\\ 32.44\\ 30.27\\ 30.35\\ \end{array}$			$\begin{array}{c} 4.00\\ 4.61\\ 4.06\\ 4.08\\ 4.00\\ 4.28\\ 4.46\\ 4.32\\ 4.67\end{array}$	$12.00 \\ 11.69 \\ 12.20 \\ 12.00 \\ 12.90 \\ 12.04 \\ 12.04 \\ 12.20 \\ 12.00 \\ 12.50 $	$\begin{array}{r} 4.00\\ 4.78\\ 4.19\\ 4.08\\ 4.52\\ 4.58\\ 4.80\\ 5.68\\ 4.56\end{array}$	
1.1.2 1.0.4. 1.1.2 1.0.4. 1.1.2 1.1.4.	$1319 \\ 1328 \\ 1338 \\ 1384 \\ 1385$	$5.22 \\ 5.00 \\ 5.17 \\ 5.00 \\ 5.16$	10.80 10.70 10.80 10.00 10.10	$\begin{array}{r} 4.32 \\ 5.30 \\ 5.31 \\ 5.15 \\ 5.11 \end{array}$	31.21 31.02 31.66 30.09 30.67	Swift's Red Steer 5-20-20 Guard	anteed 2246	5.00 5.24	$\begin{array}{c} 20.00\\ 20.50\end{array}$	$\begin{array}{c} 20.00\\ 21.12 \end{array}$	
	$1443 \\ 1465 \\ 1523 \\ 1632 \\ 1876 \\ 1977$	$\begin{array}{r} 4.78 \\ 4.81 \\ 5.28 \\ 4.70 \\ 5.22 \\ 5.04 \end{array}$	$ \begin{array}{r} 10.80 \\ 10.00 \\ 10.20 \\ 11.29 \\ 10.50 \\ 10.30 \\ \end{array} $	5.27 6.41 6.42 4.67 7.17 6.72	30.46 30.28 31.93 30.45 32.56	Guar	anteed 2128	$3.00 \\ 3.90$	9.00 9.00	18.00 18.00	
	$1977 \\1986 \\2040 \\2119 \\2121 \\2129 \\2295 \\2312 \\$	5.04 5.42 5.34 5.12 5.06 5.24 5.24 5.30	$10.30 \\ 10.40 \\ 10.80 \\ 10.50 \\ 10.20 \\ 10.60 \\ 10.5$	$\begin{array}{c} 6.72 \\ 5.41 \\ 6.03 \\ 5.83 \\ 5.73 \\ 6.14 \\ 6.14 \\ 5.02 \end{array}$	31.51 31.99 32.60 31.46 30.86 32.12 32.00 31.51	 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	anteed 349 901 1331 1386 2739	$6.00 \\ 5.80 \\ 5.76 \\ 6.40 \\ 6.02 \\ 6.20$	$10.00 \\ 10.20 \\ 10.00 \\ 10.90 \\ 10.20 \\ 10.30$	$\begin{array}{r} 4.00 \\ 4.58 \\ 4.19 \\ 4.20 \\ 4.40 \\ 4.92 \end{array}$	
	$2312 \\ 2440 \\ 2448 \\ 2459 \\ 2471 \\ 2614$	5.50 5.04 5.20 5.30 5.04	$ \begin{array}{r} 10.50 \\ 11.50 \\ 10.50 \\ 10.66 \\ 11.00 \\ 10.20 \end{array} $	5.02 5.65 5.50 6.15 5.50	31.51 33.31 31.11 31.69 32.79 30.66	Brimm 12-12-6 Guara	anteed 1366 1440	$12.00 \\ 11.37 \\ 11.49$	$12.00 \\ 13.00 \\ 12.52$	$6.00 \\ 6.16 \\ 5.54$	

Manufacturer, place of business and brand	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	P'otash, '	Valuation found per ton, dollars	Manufacturer, place of bus and brand	Laboratory	Nitrogen, percent	Available phosphoric acid, percent	P'otash, percent	Valuation found per
Brimm 6-8-12		C 00	0.00	10.00	94.90	Lone Star Brand 10-20-10		10.00		10.00	
Guar	anteed 929 1064 1078 1210	$6.00 \\ 6.02 \\ 6.06 \\ 6.60 \\ 5.66$	8.00 8.80 8.20 8.40 8.30	$12.00 \\ 10.21 \\ 10.31 \\ 10.78 \\ 10.62$	$\begin{array}{r} 34.80\\ 34.75\\ 34.21\\ 36.35\\ 33.31 \end{array}$		Guaranteed 623 2381 2674	9.20 9.20 10.08	$20.00 \\ 20.50 \\ 20.50 \\ 20.00$	$10.00 \\ 10.72 \\ 10.00 \\ 11.30$	58.6 60.8
観然間被引	$1877 \\1976 \\1990 \\2467 \\2654$	$6.00 \\ 5.77 \\ 6.07 \\ 6.46 \\ 6.04$	8.10 8.60 8.40 8.71 8.70	$11.01 \\ 12.16 \\ 11.32 \\ 10.82 \\ 11.25$	$\begin{array}{c} 34.33 \\ 34.93 \\ 35.08 \\ 36.32 \\ 35.31 \end{array}$	Lone Star Brand 5-10-10	Fertilizer Guaranteed 213 1193	5.06	$10.00 \\ 10.50 \\ 10.30$	10.00 10.30 10.08	33.9
	$\begin{array}{c} 2667\\ 2761 \end{array}$	$6.07 \\ 5.90$	9.00 8.60	$11.30 \\ 11.32$	$35.79 \\ 34.81$	Lone Star Brand 4-12-4 1	Fertilizer Guaranteed	4.00	12.00	4.00	
Pasturgro 3-12-12 Guar	anteed 346 2662	$3.00 \\ 3.44 \\ 3.56$	$12.00 \\ 12.00 \\ 12.60$	$12.00 \\ 12.10 \\ 10.86$	30.60 31.98 32.32		$1253 \\ 1344 \\ 2445 \\ 2698 $	4.04	$12.24 \\ 12.00 \\ 12.50 \\ 12.19$	$\begin{array}{r} 4.30 \\ 4.53 \\ 4.11 \\ 4.68 \end{array}$	29.2
Cexas City Chemicals, Inc., Texas	City, Te					Lone Star Brand 3-12-12	Fertilizer Guaranteed	1 3.00	12.00	12.00	30.60
Texaphos 35% Dicalcium Phosp Guar	hate anteed 80	0.00	$35.00 \\ 35.00$	$0.00 \\ 0.00$	42.00 42.00		241 291 858	3.54 3.51	$12.20 \\ 12.00$	$\begin{array}{c} 12.10\\ 13.30\end{array}$	32.52 32.91 33.91
	$\begin{array}{c} 125\\ 367\end{array}$	$\begin{array}{c} 0.00\\ 0.00\end{array}$	$\begin{array}{c} 35.00\\ 35.50\end{array}$	0.00 0.00	$42.00 \\ 42.60 \\ 45.11$	Lone Star Brand 20% Su			11.77	13.58	99.91
	1750 2147	$\begin{array}{c} 0.00\\ 0.00\end{array}$	$37.59 \\ 36.75$	$\begin{array}{c} 0.00\\ 0.00\end{array}$	45.11 44.10		Guaranteed 628	0.00	$\begin{array}{c} 20.00\\ 20.52 \end{array}$	$\begin{array}{c} 0.00\\ 0.00\end{array}$	24.00 24.62
exas Farm Products Co., Nacogd Lone Star Brand 0-14-7 Fertiliz	er					Tyler Fertilizer Co., Tyler, Heart Brand 8-8-8	Texas				
	anteed 257 294	$0.00 \\ 0.00 \\ 0.00$	$14.00 \\ 14.11 \\ 13.57$	$7.00 \\ 8.20 \\ 7.98$	$21.00 \\ 21.85 \\ 21.07$		Guaranteed 999 1909 1917 2306	$\begin{array}{c} 7.30 \\ 7.34 \\ 7.04 \end{array}$	$\begin{array}{r} 8.00 \\ 10.38 \\ 8.70 \\ 9.50 \\ 8.80 \end{array}$	8.00 8.16 9.47 8.86 8.00	38.40 39.25 38.14 37.84 39.96
Lone Star Brand 8-8-8 Fertilizer Guar	anteed 40	8.00 7.84	8.00 8.10	8.00 8.14	$38.40 \\ 38.12$		2412 2423	8.06 8.06	$\begin{array}{c} 9.81\\ 8.00\end{array}$	7.50 8.48	40.45 38.87
	$\begin{array}{c} 212 \\ 641 \end{array}$	$7.46 \\ 8.08$	$8.10 \\ 9.80$	8.62	$37.27 \\ 41.16$	Heart Brand 5-10-5	2731		13.90	8.36	47.26
	$\begin{array}{r} 661 \\ 920 \\ 1204 \\ 1225 \\ 1310 \\ 1315 \end{array}$	$7.84 \\ 7.86 \\ 8.00 \\ 7.84 \\ 7.76 \\ 8.20$	8.30 8.10 8.70 8.62 8.40 8.20	$8.62 \\ 8.38 \\ 8.38 \\ 8.42 \\ 8.20 \\ 8.02$	38.65 38.33 39.47 38.92 38.28 39.25		Guaranteed 355 803 1887 1947 21.48	$\begin{array}{c} 6.23 \\ 5.88 \\ 6.04 \\ 5.40 \end{array}$	$ \begin{array}{r} 10.00 \\ 10.00 \\ 10.80 \\ 10.00 \\ 10.00 \\ 9.55 \\ \end{array} $	$5.00 \\ 5.10 \\ 5.85 \\ 5.58 \\ 4.76 \\ 5.91$	30.00 33.75 34.11 33.47 31.06 32.08
	$ 1907 \\ 1928 \\ 2332 \\ 2382 \\ 2457 \\ 2699 $	$7.60 \\ 8.12 \\ 7.70 \\ 8.04 \\ 8.02 \\ 8.02 \\ 8.02$	$8.91 \\ 8.00 \\ 8.30 \\ 8.40 \\ 8.20 \\ 8.50$	$8.18 \\ 8.20 \\ 8.04 \\ 8.22 \\ 8.08 \\ 7.67$	38.40 38.88 37.88 39.13 38.75 38.86		2307 2348 2401 2413 2435	5.94 5.04 7.00 6.16	$\begin{array}{c} 10.00\\ 10.20\\ 10.70\\ 10.20\\ 10.40 \end{array}$	$\begin{array}{c} 6.00 \\ 5.36 \\ 5.18 \\ 5.03 \\ 4.11 \end{array}$	33.42 30.58 36.95 33.74 32.83
4.96 - 60 - 10.05 - 66.5 - 100	2714 2832	$8.24 \\ 7.00$	$\begin{array}{r} 8.20\\ 10.07\end{array}$	8.00 8.44	$39.36 \\ 38.15$	Heart Brand 10-20-10	Guaranteed		20.00	10.00	60.00
Lone Star Brand 7-14-0 Fertiliz		7.00	14.00	0.00	97 90		$1886 \\ 2411$		$19.00 \\ 19.00$	$\begin{array}{c} 10.12\\ 8.00 \end{array}$	57.67 57.60
	anteed 614	$\begin{array}{c} 7.00 \\ 7.30 \end{array}$	$\begin{array}{c} 14.00\\ 14.10\end{array}$	0.00 0.00	$37.80 \\ 39.11$	Heart Brand 4-12-4	Guaranteed 2436		$\begin{array}{c} 12.00\\ 8.06 \end{array}$	$\begin{array}{c} 4.00\\ 5.28\end{array}$	28.80 31.26
Lone Star Brand 5-10-5 Fertiliz Guar:	er anteed 39 214 242	$5.00 \\ 5.05 \\ 5.00 \\ 4.92$	$10.00 \\ 9.70 \\ 9.86 \\ 10.00$	$5.00 \\ 5.64 \\ 5.75 \\ 5.89$	30.00 30.17 30.28 30.29	Heart Brand 0-45-0	Guaranteed 1803		$\begin{array}{c} 45.00\\ 45.15\end{array}$	$\begin{array}{c} 0.00\\ 0.00\end{array}$	54.00 54.18
	258 267	5.00 5.04	10.00 10.00 10.00	6.04 5.89	30.62 30.65	Virginia Carolina Chemical V-C Fertilizers 0-16-8	Corporation	, Shrevep	ort, Loui	siana	
「読」(2.5 - 101.21 - 43.5 - 544) 1.02 - 根本 - 66.55 - 50.5 - 144	$370 \\ 615 \\ 640$	$5.14 \\ 4.78 \\ 5.28$	$10.00 \\ 10.20 \\ 10.50$	$5.44 \\ 5.44 \\ 5.10$	30.68 29.84 31.50		Guaranteed	0.00	16.00 16.10	8.00 7.84	24.00 24.02
	662 696	$5.34 \\ 5.18$	$\begin{array}{c} 10.00\\ 10.00 \end{array}$	$5.41 \\ 5.70$	$\begin{array}{c} 31.27\\ 30.96 \end{array}$		595 1230		$\begin{array}{c} 16.25\\ 13.83 \end{array}$	8.14 7.66	24.38 21.19
	794 798 921 1176 1188	$5.35 \\ 5.03 \\ 4.83 \\ 5.01 \\ 5.23$	$ \begin{array}{r} 10.00 \\ 10.00 \\ 10.50 \\ 10.30 \\ 10.10 \end{array} $	$5.00 \\ 5.00 \\ 4.69 \\ 5.00 \\ 5.09$	31.05 30.09 29.90 30.39 30.86	V-C Triple 8 Fertilizer	Guaranteed 115 120	7.82	8.00 9.80 8.60	8.00 8.02 8.48	38.40 40.03 39.83
84 (4.87 04.95 04.2, bin 25 (4.87 14.0) (2.00 25 (4.87 14.0)	$1205 \\ 1215 \\ 1226 \\ 1252$	$5.02 \\ 5.40 \\ 5.10 \\ 5.01$	$9.70 \\10.00 \\10.00 \\9.70$	$5.29 \\ 5.29 \\ 4.81 \\ 5.13$	29.87 31.37 30.19 29.75		239 280 482 667	8.00 8.26 8.04 7.78	$8.80 \\ 8.40 \\ 8.00 \\ 10.22$	8.40 8.62 8.22 7.70	39.60 40.03 38.65 40.22
	$ 1309 \\ 1316 \\ 2343 $	$5.14 \\ 5.00 \\ 5.00$	$ \begin{array}{r} 10.00 \\ 9.68 \\ 10.00 \end{array} $	$5.07 \\ 5.02 \\ 5.11$	30.46 29.63 30.07		737 788 843	8.18 8.08	$9.30 \\ 8.40 \\ 8.30$	8.36	40.48 39.66 39.22
	1864 1906 2333	$5.28 \\ 5.10 \\ 5.48$	$10.50 \\ 10.40 \\ 11.00$	$5.00 \\ 5.35 \\ 6.29$	$31.44 \\ 30.99 \\ 33.41$	二、韩武、魏波、杨波、杨武、 二、朝朝、初志、武武、杨波	927 1116 1127	$\begin{array}{c} 7.71 \\ 8.20 \end{array}$	8.80 8.40 8.90	8.16 8.38	38.59 39.71 39.06
	$2441 \\ 2444 \\ 2673 \\ 2689$	5.08 5.04 5.10 5.20	$ 10.50 \\ 10.10 \\ 10.00 \\ 10.00 $	5.18 5.00 5.32 5.32	30.95 30.24 30.49 30.79	14.01 AL2 OLD AL2 0.01975212 J 40.01 AL2 5.11 50.3 AL2 OLD AL2 15.51 10.5 04.51 05.4	$ \begin{array}{r} 1127\\ 1178\\ 1183\\ 1244\\ 1300 \end{array} $	7.72 7.72 8.00	$ \begin{array}{r} 11.30 \\ 8.80 \\ 8.40 \end{array} $	7.39 7.63 7.77	41.15 38.30 38.74
	2713 2824 2831	$5.46 \\ 5.16 \\ 5.14$	$10.00 \\ 10.30 \\ 10.10 \\ 9.64$	5.02 5.02 5.00	31.75 30.61 30.00	11.51 - 10.2 - 10.1 - 1	1625 1920	7.80	8.40 8.60 8.50 9.30	7.60 8.00	40.58 38.28 39.00 40.18

1945 5.00 <th< th=""><th>Manufacturer, place of bus and brand</th><th>Laboratory</th><th>Nitrogen, percent</th><th>Available phosphoric acid, percent</th><th>Potash. percent</th><th>Valuation found per ton, dollars</th><th>Manufacturer, place of business and brand</th><th>Laboratory number</th><th>Nitrogen. percent</th><th>Available phosphoric acid, percent</th><th>Potash, percent</th><th>Valuation found per ton. dollars</th></th<>	Manufacturer, place of bus and brand	Laboratory	Nitrogen, percent	Available phosphoric acid, percent	Potash. percent	Valuation found per ton, dollars	Manufacturer, place of business and brand	Laboratory number	Nitrogen. percent	Available phosphoric acid, percent	Potash, percent	Valuation found per ton. dollars
VC Pretiliers 12-13-13 Generated 1 & 0.0 & 0	V-C Triple 8 Fertilizer						V-C 20% Superphosphate					
VC Pertilizers 12-12-12 Guaranteel 12.00 <		$\begin{array}{c} 2050\\ 2065\\ 2220\\ 2318\\ 2325\\ 2334\\ 2452\\ 2543\end{array}$	$\begin{array}{c} 8.04\\ 8.03\\ 7.70\\ 8.00\\ 8.00\\ 8.14\\ 7.76\\ 7.76\end{array}$	8.80 8.10 8.80 8.90 8.80 8.70 8.40 8.90	8.08 8.08 8.00 8.22 8.00 8.18 8.22 8.02	39.53 37.96 38.46 39.61 39.36 39.77 38.29 38.77	Guar	$ \begin{array}{r} 61 \\ 83 \\ 566 \\ 840 \\ 956 \\ 2209 \end{array} $	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\end{array}$	$\begin{array}{r} 20.10 \\ 20.10 \\ 20.75 \\ 20.00 \\ 20.25 \\ 21.50 \end{array}$	$\begin{array}{c} 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \\ 0.00 \end{array}$	$\begin{array}{r} 24.12 \\ 24.12 \\ 24.90 \\ 24.00 \\ 24.30 \\ 25.80 \end{array}$
$ \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	N.G. D. (1),	2685	7.70	8.50	8.14	38.18			10.00	20.00	0.00	54.00
Guaranteed 17 6.00 17 6.00 1.600 6.00 5.00 8.001 2.278 10.44 2.278 10.44 2.278 <t< td=""><td>•</td><td>$119 \\ 542 \\ 735 \\ 1126 \\ 2008 \\ 2049$</td><td>$11.00 \\ 11.64 \\ 12.01 \\ 12.02 \\ 12.00 \\ 12.02$</td><td>$12.80 \\ 12.70 \\ 12.20 \\ 12.40 \\ 12.70 \\ 12.10$</td><td>$12.00 \\11.60 \\12.80 \\12.00 \\12.84 \\12.30$</td><td>55.56 57.12 58.35 58.14 58.94 57.96</td><td>Lone Star Promitive Co. 1 Lone Star Front Computer, Reducing Statements Corrs., Will Markows, E. W., Converse</td><td>$5 \\ 200 \\ 206 \\ 538 \\ 647 \\ 654 \\ 660 \\ 1036$</td><td>$\begin{array}{c} 10.00\\ 10.75\\ 10.32\\ 10.60\\ 10.50\\ 11.01\\ 11.17\\ 10.02 \end{array}$</td><td>$\begin{array}{c} 20.10 \\ 20.08 \\ 20.25 \\ 20.00 \\ 20.75 \\ 20.90 \\ 20.25 \\ 21.50 \end{array}$</td><td>$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$</td><td>$54.87 \\ 54.12 \\ 56.38 \\ 55.26 \\ 55.80 \\ 56.40 \\ 58.11 \\ 57.81 \\ 55.86$</td></t<>	•	$119 \\ 542 \\ 735 \\ 1126 \\ 2008 \\ 2049$	$11.00 \\ 11.64 \\ 12.01 \\ 12.02 \\ 12.00 \\ 12.02$	$12.80 \\ 12.70 \\ 12.20 \\ 12.40 \\ 12.70 \\ 12.10$	$12.00 \\11.60 \\12.80 \\12.00 \\12.84 \\12.30$	55.56 57.12 58.35 58.14 58.94 57.96	Lone Star Promitive Co. 1 Lone Star Front Computer, Reducing Statements Corrs., Will Markows, E. W., Converse	$5 \\ 200 \\ 206 \\ 538 \\ 647 \\ 654 \\ 660 \\ 1036$	$\begin{array}{c} 10.00\\ 10.75\\ 10.32\\ 10.60\\ 10.50\\ 11.01\\ 11.17\\ 10.02 \end{array}$	$\begin{array}{c} 20.10 \\ 20.08 \\ 20.25 \\ 20.00 \\ 20.75 \\ 20.90 \\ 20.25 \\ 21.50 \end{array}$	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	$54.87 \\ 54.12 \\ 56.38 \\ 55.26 \\ 55.80 \\ 56.40 \\ 58.11 \\ 57.81 \\ 55.86 $
270 5.02 1.30 5.75 32.07 Curranted 10.20.10 5.00 10.00 5.00 6.00 446 1.31 1.20 1.33 5.45 30.35 Guranted 10.00 2.00 10.00 5.64 446 1.31 1.32 5.62 1.33 5.62 1.33 5.62 1.30 5.63 1.56 5.63 1.56 5.63 1.56 5.63 1.56 5.63 1.56 5.63 1.56 5.64 1.56 5.64 1.56 5.64 1.56 5.65 3.647 1.50 1.56 1.56 5.64 1.56 5.66 5.67 1.50 5.66 5.67 1.50 5.66 5.67 1.50 5.66 5.67 1.50 5.66 5.67 1.50 5.66 5.67 1.50 5.66 5.67 1.50 5.66 5.67 1.50 5.66 5.67 5.66 5.67 5.66 5.67 5.66 5.67 5.66 5.67	V-C Fertilizers 5-10-5	$\begin{array}{c} 4 \\ 77 \\ 114 \\ 238 \\ 246 \\ 250 \\ 251 \end{array}$	$5.01 \\ 4.77 \\ 5.03 \\ 5.21 \\ 5.16 \\ 5.02 \\ 5.02 \\ 5.02$	$10.30 \\ 10.50 \\ 10.00 \\ 10.00 \\ 10.30 \\ 10.10 \\ 10.00$	5.05 5.33 5.27 5.33 5.30 5.14 5.30	$\begin{array}{c} 30.42 \\ 30.11 \\ 30.25 \\ 30.83 \\ 31.02 \\ 30.26 \\ 30.24 \end{array}$	Hangle Korn Gaolei, Shiq Marshall Ge Ga Oli Comp Mid West Fe di Perio Reg 1. W. Nichola, Oct. 219 N.	$1963 \\ 2211 \\ 2254 \\ 2278 \\ 2356 \\ 2420 \\ 2711$	$10.24 \\ 11.04 \\ 10.40 \\ 10.20 \\ 10.44 \\ 9.44 \\ 11.00$	$\begin{array}{c} 20.00\\ 20.50\\ 21.75\\ 21.25\\ 20.00\\ 18.60\\ 20.00 \end{array}$	$\begin{array}{c} 0.00\\ 0.00\\ 0.00\\ 0.00\\ 0.00\\ 3.37\\ 0.00 \end{array}$	$54.72 \\ 57.72 \\ 57.30 \\ 56.10 \\ 55.32 \\ 52.66 \\ 57.00$
$ \begin{array}{c} 2453 & 5.00 & 10.80 & 5.25 & 31.11 \\ 2628 & 5.52 & 11.80 & 5.50 & 34.02 \\ 2677 & 5.40 & 10.80 & 6.00 & 32.76 \\ 2684 & 4.60 & 10.24 & 4.83 & 28.99 \\ 2770 & 5.30 & 10.50 & 5.16 & 31.60 \\ 2781 & 5.48 & 10.50 & 5.50 & 32.34 \\ \end{array} \right) \left(\begin{array}{c} 2779 & 10.00 & 21.00 & 10.01 & 61.21 \\ 2827 & 10.20 & 21.25 & 11.00 & 62.70 \\ 2827 & 10.20 & 21.25 & 11.00 & 62.70 \\ 0 & 0.00 & 46.90 & 0.00 & 56.28 \\ 474 & 0.00 & 48.59 & 0.00 & 56.28 \\ 474 & 0.00 & 48.59 & 0.00 & 58.30 \\ 60 & 0.00 & 49.13 & 0.00 & 58.96 \\ 1511 & 4.20 & 11.74 & 4.30 & 29.27 \\ 1519 & 4.00 & 12.20 & 4.47 & 29.32 \\ 1521 & 6.23 & 12.90 & 4.59 & 36.92 \\ \end{array} \right) \left(\begin{array}{c} 400 & 12.00 & 12.00 & 12.00 & 30.60 \\ 6 & 3.02 & 12.35 & 12.00 & 31.08 \\ 199 & 3.29 & 12.00 & 12.70 & 31.08 \\ 199 & 2.81 & 13.90 & 13.25 & 33.07 \\ 249 & 2.81 & 13.90 & 13.25 & 33.07 \\ 249 & 2.81 & 13.90 & 13.25 & 33.07 \\ 249 & 2.81 & 13.90 & 13.25 & 33.07 \\ 249 & 2.81 & 13.90 & 13.25 & 33.07 \\ 249 & 2.81 & 13.90 & 13.25 & 33.07 \\ 249 & 2.81 & 13.90 & 13.25 & 33.07 \\ 249 & 2.81 & 13.90 & 13.26 & 33.07 \\ 249 & 2.81 & 13.90 & 13.25 & 33.07 \\ 249 & 2.81 & 13.90 & 13.25 & 33.07 \\ 249 & 2.81 & 13.90 & 13.25 & 33.07 \\ 249 & 2.81 & 13.90 & 13.25 & 33.07 \\ 249 & 2.81 & 13.90 & 13.25 & 33.07 \\ 249 & 2.81 & 13.90 & 13.25 & 33.07 \\ 249 & 2.81 & 13.90 & 13.25 & 33.07 \\ 249 & 2.81 & 13.90 & 13.26 & 33.07 \\ 249 & 2.81 & 13.90 & 13.26 & 33.07 \\ 249 & 2.81 & 13.90 & 13.26 & 33.07 \\ 249 & 2.81 & 13.90 & 13.26 & 33.07 \\ 249 & 2.81 & 13.90 & 13.26 & 33.07 \\ 249 & 2.81 & 13.90 & 13.26 & 33.07 \\ 249 & 2.81 & 13.90 & 13.26 & 33.07 \\ 249 & 2.81 & 13.90 & 13.26 & 33.07 \\ 249 & 2.81 & 13.90 & 13.26 & 33.07 \\ 249 & 2.81 & 13.90 & 13.26 & 33.07 \\ 249 & 2.81 & 13.90 & 13.26 & 33.07 \\ 249 & 2.81 & 13.90 & 13.26 & 33.07 \\ 249 & 2.81 & 13.90 & 13.26 & 33.07 \\ 249 & 2.81 & 13.90 & 13.26 & 33.07 \\ 249 & 2.81 & 13.90 & 13.26 & 32.06 \\ 340 & 2.90 & 0.00 & 54.00 \\ \end{array} \right)$		$\begin{array}{c} 263\\ 279\\ 283\\ 448\\ 464\\ 475\\ 483\\ 592\\ 596\\ 617\\ 630\\ 643\\ 676\\ 789\\ 790\\ 939\\ 1035\\ 1117\\ 1118\\ 1217\\ 1118\\ 1217\\ 1229\\ 1242\\ 1243\\ 1266\\ 1301\\ 1500\\ 1510\\ 1510\\ 1510\\ 1510\\ 1510\\ 1510\\ 1510\\ 1510\\ 1512\\ 2052\\ 2066\\ 2180\\ 2210\\ 2253\\ 2317\\ 2326\\ 2335\\ \end{array}$	$\begin{array}{c} 5.062\\ 5.002\\ 5.200\\ 5.18\\ 6.03\\ 6.03\\ 5.220\\ 5.220\\ 5.220\\ 5.220\\ 5.220\\ 5.220\\ 5.220\\ 5.220\\ 5.220\\ 5.220\\ 5.200\\ 5.240\\ 5.200$	$\begin{array}{c} 10.20\\ 11.30\\ 10.00\\ 10.00\\ 10.00\\ 10.20\\ 11.15\\ 11.15\\ 10.20\\ 10.00\\ 10.20\\ 10.00\\ 10.00\\ 10.00\\ 10.00\\ 10.10\\ 10.00\\ 10.10\\ 10.00\\ 10.10\\ 10.00\\ 10.10\\ 10.00\\ 10.50\\ 10.60\\ 10.60\\ 10.60\\ 10.60\\ 10.60\\ 10.60\\ 10.60\\ 10.50\\ 10.80\\ 10.20\\ 10$	$\begin{array}{c} 5.30\\ 5.763\\ 5.63\\ 5.45\\ 5.13\\ 6.366\\ 6.366\\ 6.366\\ 5.59\\ 5.62\\ 5.60\\ 5.11\\ 5.51\\ 5.60\\ 5.111\\ 5.55\\ 5.60\\ 5.111\\ 5.55\\ 5.00\\ 5.111\\ 5.55\\ 5.00\\ 5.111\\ 5.55\\ 5.00\\ 5.29\\ 5.281\\ 5.01\\ 5.29\\ 5.281\\ 5.00\\ 5.29\\ 5.281\\ 5.01\\ 5.65\\ 5.60\\ 5.65\\ 5.60\\ 6.30\\ \end{array}$	$\begin{array}{c} 30.60\\ 32.07\\ 30.38\\ 30.87\\ 30.85\\ 35.29\\ 35.29\\ 31.25\\ 30.61\\ 32.57\\ 35.42\\ 31.08\\ 30.22\\ 35.42\\ 31.08\\ 30.22\\ 30.46\\ 30.22\\ 30.46\\ 30.22\\ 30.46\\ 30.67\\ 30.46\\ 30.67\\ 30.67\\ 30.67\\ 30.67\\ 30.67\\ 30.8\\ 30.76\\ 30.8\\ 30.8\\ 31.75\\ 31.38\\ 30.85\\ 30.37\\ 30.85\\ 30.37\\ 30.85\\ 30.37\\ 30.85\\ 30.37\\ 30.85\\ 30.37\\ 30.85\\ 30.17\\ 31.81\\ 33.31\\ 30.40\\ 29.76\\ 30.39\\ 31.81\\ 31.47\\ 31.68\\ 34.59\\ \end{array}$		$\begin{array}{c} \text{inteed } \\ 3 \\ 25 \\ 66 \\ 77 \\ 196 \\ 201 \\ 378 \\ 379 \\ 480 \\ 539 \\ 543 \\ 597 \\ 610 \\ 644 \\ 787 \\ 926 \\ 1125 \\ 1174 \\ 1179 \\ 1257 \\ 1174 \\ 1179 \\ 1267 \\ 1508 \\ 1516 \\ 1636 \\ 1672 \\ 1921 \\ 1921 \\ 1923 \\ 2016 \\ 1636 \\ 1672 \\ 1921 \\ 1923 \\ 2048 \\ 2064 \\ 2048 \\ 2064 \\ 2228 \\ 2228 \\ 2228 \\ 2228 \\ 2228 \\ 22364 \\ 2421 \\ 2429 \\ 2429 \\ 2422 \\ 242$	$\begin{array}{c} 9.51\\ 10.02\\ 10.05\\ 10.06\\ 9.56\\ 10.01\\ 10.00\\ 10.32\\ 10.04\\ 10.05\\ 10.32\\ 10.04\\ 10.05\\ 10.32\\ 10.04\\ 10.32\\ 10.12\\ 10.12\\ 10.12\\ 10.12\\ 10.12\\ 10.12\\ 10.12\\ 10.12\\ 10.12\\ 10.32\\ 10.04\\ 10.32\\ 10.32\\ 10.04\\ 10.32\\ 10.04\\ 10.32\\ 10.01\\ 10.52\\ 10.01\\ 10.62\\ 10.22\\ 10.01\\ 10.52\\ 10.04\\ 10.52\\ 10.04\\ 10.52\\ 10.20\\ 10.20\\ 10.20\\ 10.20\\ 10.08\\ \end{array}$	$\begin{array}{l} 19.60\\ 20.09\\ 20.09\\ 18.50\\ 20.70\\ 20.70\\ 20.25\\ 20.03\\ 20.50\\ 20.25\\ 20.03\\ 20.50\\ 21.25\\ 20.25\\ 20.00\\ 21.25\\ 20.00\\ 21.09\\ 20.00\\ 21.09\\ 22.91\\ 21.25\\ 20.00\\ 22.00\\ 21.09\\ 22.91\\ 21.25\\ 20.00\\ 22.00\\ 21.09\\ 22.91\\ 21.25\\ 20.00\\ 22.00\\ 22.00\\ 22.91\\ 20.75\\ 20.75\\ 20.75\\ 20.75\\ 20.75\\ 20.75\\ 20.75\\ 20.75\\ 20.75\\ 20.75\\ 20.75\\ 20.75\\ 20.75\\ 20.75\\ 20.75\\ 20.75\\ 20.55\\ 20.50\\ 20$	$\begin{array}{c} 10.26\\ 10.00\\ 10.49\\ 10.25\\ 10.15\\ 10.04\\ 10.30\\ 10.54\\ 10.30\\ 10.66\\ 10.60\\ 10.30\\ 10.66\\ 10.18\\ 10.30\\ 10.82\\ 20.58\\ 10.32\\ 10.22\\ 10.58\\ 10.22\\ 10.22\\ 10.58\\ 10.22\\ 10.58\\ 10.22\\ 10.58\\ 10.22\\ 10.58\\ 10.28\\ 10.28\\ 10.58\\ 10.58\\ 10.58\\ 10.58\\ 10.58\\ 10.58\\ 10.58\\ 10.58\\ 10.58\\ 10.58\\ 10.58\\ 10.58\\ 10.58\\ 10.58\\ 10.68\\ 10.58\\ 10.00\\ 10.68\\ 10.00\\ 10.04\\ 10.18\\ 10.92\\ 10.00\\ 10.04\\ 10.92\\ 10.00\\ 10.04\\ 10$	$\begin{array}{c} 58.31\\ 60.17\\ 58.64\\ 61.17\\ 58.64\\ 61.17\\ 58.64\\ 61.17\\ 60.77\\ 60.50\\ 61.18\\ 61.62\\ 62.77\\ 62.11\\ 61.64\\ 61.62\\ 62.11\\ 60.48\\ 61.62\\ 61.61\\ 62.76\\ 62.802\\ 47.84\\ 60.75\\ 62.802\\ 47.84\\ 60.68\\ 61.69\\ 60.75\\ 62.10\\ 61.69\\ 60.75\\ 62.11\\ 61.28\\ 60.45\\ 59.16\\ 60.12\\ 59.16\\ 60.12\\ 59.16\\ 60.12\\ 59.16\\ 60.12\\ 59.16\\ 60.12\\ 59.16\\ 60.12\\ 62.12\\ 62.57\\ 61.45\\ 61.45\\ 61.86\\ 60.86\\ \end{array}$
$ \begin{array}{c} \mbox{4.12-4} \\ \mbox{Guaranteed} & 4.00 & 12.00 & 4.00 & 28.80 \\ 1511 & 4.20 & 11.74 & 4.30 & 29.27 \\ 1519 & 4.00 & 12.20 & 4.47 & 29.32 \\ 1521 & 6.23 & 12.90 & 4.59 & 36.92 \end{array} \\ \mbox{V-C Fertilizers 3-12-12} \\ \mbox{Guaranteed} & 3.00 & 12.00 & 12.00 & 30.60 \\ & 6 & 3.02 & 12.35 & 12.00 & 31.08 \\ 199 & 3.29 & 12.00 & 12.00 & 31.08 \\ 249 & 2.81 & 13.90 & 13.26 & 33.07 \\ 249 & 2.81 & 13.90 & 13.25 & 30.60 \\ & 411 & 3.20 & 12.30 & 12.86 & 32.08 \\ & 411 & 3.20 & 12.86 & 12.86 & 32.08 \\ & 411 & 3.20 & 12.86 & 12.86 & 32.08 \\ & 411 & 3.20 & 12.86 & 32.08 \\ \end{array} \\ \begin{array}{c} 474 & 0.00 & 48.59 & 0.00 & 58.30 \\ 555 & 0.00 & 49.13 & 0.00 & 58.96 \\ & 565 & 0.00 & 49.13 & 0.00 & 58.96 \\ & & 565 & 0.00 & 49.13 & 0.00 & 58.96 \\ & & & & & & & & & & & & & & & & & & $	and the second sec	2628 2677 2684 2770	$5.52 \\ 5.40 \\ 4.60 \\ 5.30$	$11.80 \\ 10.80 \\ 10.24 \\ 10.50$	$5.50 \\ 6.00 \\ 4.83 \\ 5.16$	31.11 34.02 32.76 28.99 31.60		2779 2827 phospha nteed 60	10.00 10.20 ate 0.00 0.00	21.00 21.25 45.00 46.90	10.01 11.00 0.00	61.21 62.70 54.00
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	V-C Fertilizers 4-12-4	$\begin{array}{c}1511\\1519\end{array}$	$\begin{array}{c} 4.20\\ 4.00\end{array}$	$11.74 \\ 12.20$	$\begin{array}{r} 4.30\\ 4.47\end{array}$	$29.27 \\ 29.32$		$\begin{array}{c} 555\\ 565\\ 844\end{array}$	$0.00 \\ 0.00 \\ 0.00$	$\begin{array}{r} 48.59 \\ 49.27 \\ 49.13 \end{array}$	$0.00 \\ 0.00 \\ 0.00$	$58.30 \\ 59.12 \\ 58.96$
	V-C Fertilizers 3-12-12	6 199 249 282	$3.02 \\ 3.29 \\ 2.81 \\ 2.67$	$12.35 \\ 12.00 \\ 13.90 \\ 12.20$	$\begin{array}{c} 12.00 \\ 12.70 \\ 13.26 \\ 13.25 \end{array}$	$31.08 \\ 31.89 \\ 33.07 \\ 30.60$	Guara Victory 10-20-0	2133 2599	8.02 8.94	8.70 7.69	8.00 8.22	39.30
							- Guara			$\begin{array}{c} 20.00\\ 21.00 \end{array}$		

31

· ·

Manufacturer, place of busines and brand	ä Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	Potash, percent	Valuation found per ton, dollars
Victory 5-10-5				a anda	her -
Gi	aranteed	5.00	10.00	5.00	30.00
	2135	5.58	10.07	5.79	32.30
	2218	4.76	10.00	5.04	29.30
	2598	5.36	10.00	5.03	31.10
Victory 10-20-10					
Gu	aranteed	10.00	20.00	10.00	60.00
	452	9.07	19.31	12.00	57.58
	456	8.89	20.00	9.18	56.18
	2132	9.00	20.51	10.20	57.73
	2600	10.24	20.75	10.08	61.67

1

Manufacturer, place of business and brand	Laboratory number	Nitrogen, percent	Available phosphoric acid, percent	Potash. percent	Valuation found per ton. dollars
Victory 3-12-12					
Guara	inteed 454	$\begin{array}{c} 3.00\\ 3.40\end{array}$	$\begin{array}{c} 12.00\\ 12.10\end{array}$	$\begin{array}{c} 12.00\\ 12.14\end{array}$	30.60 32.00
Wonder-Gro Fertilizer Co., Inc., Sa Wonder-Gro 5-10-5	an Anto	onio, Te	xas		
Guara	Guaranteed		10.00	5.00	30.00
	104	5.34	10.00	5.17	31.12
Wonder-Gro 6-3-0					
Guara	inteed	6.00	3.00	0.00	21.60
	105	6.58	2.65	0.00	22.92
		1 21-2			

FERTILIZER GUARANTORS REGISTERED IN TEXAS, 1954-55

Located in Texas

Agri-Chem of Texas, 2734 Roosevelt Avenue, San Antonio

Agricultural Chemical of Dallas, Dallas

- Agricultural Chemicals, Inc., Llano
- Agricultural Chemicals, Inc., Henderson
- Armour Fertilizer Works, Inc., Box 5296, Dallas

Armour Fertilizer Works, Inc., Box 1412, Houston

Associated Growers of Hereford, Hereford

Bactex Company, Inc., Box 4065, Station A, San Antonio

Baker Bros. Co., Box 828, Fort Worth

Best Fertilizer Company, 8420 Manchester St., Houston

Blume System Tree Experts, 2736 Virginia, Houston 6

Boesch Farm Products Co. Inc., 607 William Street, Lufkin

Boyer Fertilizer Corp., 405 Dan Waggoner Bldg., Fort Worth

Bradley & Baker, 202 Oak Forest State Bank Bldg., Houston 18

Brewster-Decker Company, 5115 Westheimer, Houston 19

Bryan Cotton Oil & Fertilizer Company, Bryan

- Cade & Rodgers, 921 Sidney Baker Street, Kerrville
- Campbell Fertilizer Company, Incorporated, 102 Japhet St., Houston
- Central Texas Fertilizer Company, Inc., Box 761, Comanche
- chemical Products Co. Inc., Box 387, Hurst

Coastal Chem. Specialities Co., Route 3, Box 591, Houston

Consolidated Chemical Industries, Inc., 640 Melle Esperson Building, Houston

Currie Seed Co., Box 1780, Corpus Christi

Dallas Laboratories, 2500 South Ervay Streets, Dallas

East Texas Products Company, Box 176, Tyler

Easy Going Ranch, Mountain Home

Ellis Supply Company, Weslaco

Farmers Fertilizer Company, Texarkana, Ark.-Texas

Fidelity Chemical Corp., Box 1189, Houston

forrest's Greenhouse, Box 357, Waxahachie

Ireitag Enterprises-G. Freitag, 331 Briston, San Antonio Garrison Dehydration Co., Garrison

filmer Cotton Oil and Fertilizer Company, Gilmer

Good Earth Soil Company, Inc., 248 Casa Blanca, Fort Worth

fulf Chemical Co., Box 938, Galena Park

- Bulf Coast Organic and Mineral Co., 325 S. Cage Blvd., Pharr
- fulf Rendering By Products Corp., 6426 Ave. J., Galveston

Hayes-Sammons Co., Box 633, Mission

Hill's Nursery, Victoria

H-Yield Plant Food Company, Mount Pleasant

Hi-Yield Fertilizer Company, Box 143, Bonham Imperial Chemical Co., 15920 Long Drive, Houston Interstate By-Products and Supply Company, 529 North Throckmorton St., Fort Worth Jacksonville Fertilizer Company, Box 1225, Jacksonville Jaffee Cotton Products. Box 5184. Dallas Kipfer Chemical Company, Box 770, Harlingen H. H. Koym, East Bernard Lister Laboratory, Ltd., Route 8, Box 127 H. San Antonio Little Geni Corp., 366 Westminster, San Antonio Lone Star Phosphate Co., Box 31, Nacogdoches Lone Star Steel Company, Box 8087, Dallas Manning Mineral Corp., Wilson-Tyler Bldg., Corpus Christi Marbach, E. W., Converse Margie Korn Garden Shop, 5213 W. Lovers Lane, Dallas Marshall Cotton Oil Company, Marshall Mid West Feed Yards, Box 1370, San Angelo J. W. Nichols Co., 719 N. Main, Fort Worth N. O. M., Inc., Box 8155, San Antonio Orga-Min Producing Company, Box 1453, Laredo Page Chemical Company, Port Arthur Albert Pemberton, Route 1, Taylor Pittsburg Fertilizer Co., Pittsburg Plainsman Supply Co., 510 E. 6th Street, Plainview Carl Pool Laboratories, 420 Kelly Drive, San Antonio Port Fertilizer and Chemical Co., Los Fresnos Red Stag Leaf Mold Co., Box 6622, San Antonio 9 Red Star Fertilizer Company, Box 486, Sulphur Springs Rose City Nursery, Tyler Rowland and Gordon Co., 700 East 6th Street, Plainview Scientific Soil Service, Elsa Shannon Feed Mills, 150 Apache St., San Antonio Smith-Douglass Co. Inc. (San Jacinto Chemical Co.), Box 9747, Houston Soil Organic Service, 8729 Old County Road, Ysleta Soil Prescription Service, Route 2, Mercedes Southland Cotton Oil Co., Cameron Southwest Chemical Company, 500 South 19th St., McAllen Southwest Fertilizer Co., 11665 Reeder Road, Dallas Southwest Fertilizer and Chemical Company, 5030 East Paisano Drive, El Paso Sou-Tex Laboratory, Box 1348, Bay City Soylaid, Inc., 102 West French Place, San Antonio Stauffer Chemical Company, Weslaco Swift and Company, Plant Food Division, Box 7707. Houston Texas City Chemicals, Box 1571, Texas City

FERTILIZER GUARANTORS REGISTERED IN TEXAS, 1954-55 - Continued

Texas Cotton Coop. Assn. of Pittsburg, Box_1225, Jacksonville

Texas Farm Products, Box 31, Nacogdoches

Texas Liquid Fertilizer Company, Box 808, La Feria

Texas Organic Mineral Soil Company, San Juan

Texas Vermiculite Co., 2651 Manila Road, Dallas

Tide Petroleum Products, Inc., 800 North Closner, Edinburg

Tood's Chick-A-Lizer Co., Smiley

Toyah Basin Sulphur Company, Box 226, Toyah

Tri-State Soil Products Company, 2809 East Yandell Blvd., El Paso

Tyler Fertilizer Company, 420 South Oakland, Tyler

Vital Organic Company, 1006 Washington Ave., Houston

W. P. Walker, Route 5, Abilene

Western Fertilizer Company, Muleshoe

J. Bob White, 5500 Camp Bowie Blvd., Ft. Worth

Wonder-Gro Corp., Room 2, International Airport, San Antonio

Wood Chemical Co., Lubbock

Wyatt Seed Company, 1224 W. Beau, San Angelo

Located Elsewhere

- Adkins-Phelps Calunite Co., 403 Magnolia N., Little Rock, Arkansas
- Agricultural Products Company, Anthony, New Mexico
- American Agricultural Chemical Company, 50 Church Street, New York 7, New York

American Chemical Paint Company, Ambler, Pennsylvania

American Cyanamid Company, 30 Rockfeller Plaza, New York 20, New York

American Liquid Fertilizer Company, 2nd and St. Clair Street, Marietta, Ohio

Ark-La Cotton Oil Company, Magnolia, Arkansas

Associated Cooperatives, Inc., 312 Montgomery Ave., Sheffield, Alabama

Atkins and Durbrow, Inc., 165 John Street, New York 38, New York

Allied Chemical and Dye Corp., Nitrogen Division, 40 Rector St., New York, New York

- Atlas Chemical Company, 1 Drumm Street, San Francisco 11, California
- Baker, H. J. and Brother, 600 Fifth Ave., New York, New York

Bennett Chemical Co., 53rd and Sherman Streets, Denver 16, Colorado

Better Homes Bureau, Newark, New York

Bruce-Ellen Co., Inc., 297 E. Center Street, Marion, Ohio

California Spray Chemical Corp., Lucas and Ortho Way, Richmond, California

Chatelier Plant Food, 5763 63rd Street N., St. Petersburg, Florida Chilean Nitrate Sales Corp., 120 Broadway, New York & New York

Colorado Fuel and Iron Corp., Box 1920, Denver, Colorado

Commercial Solvents Corp., 260 Madison Ave., New York New York

Consumers Corp. Assn., Box 2359, Kansas City, Missouri

Davey Tree Expert Company, 117 South Water Street, Kent, Ohio

Davison Chemical Corp., Gretna, Louisiana

Dixie Fertilizer Company, Inc., Box 1111, Shreveport, Louisiana

Dow Chemical Company, Midland, Michigan

E. I. DuPont de Nemours and Company, Wilmington, Delaware

Economy Nursery Company, Little Silver, New Jersey

Farm Service, Inc., Opelousas, Louisiana

Ferro Corporation, 4150 East 56th St., Cleveland, Ohio

- Fertilene Corp. of America, 251 Central Park West, New York 24, New York
- Ford Motor Company, Dearborn, Michigan
- Garden Research Laboratory, 699 Madison Ave., New York, New York
- Germains, Inc., 747 Terminal Street, Los Angeles 21, California
- Giegy Company, Inc., 89 Barclay Street, New York, New York
- Goulard and Olena, Inc., Skillman, New Jersey

Grace Chemical Co., Hanover Square, New York, N.Y.

- Grand River Chem. Div. of Deere & Co., 2010 So. Utica. Tulsa 4, Oklahoma
- The Grant Company, 2735 N. Ashland Avenue, Chicago 14, Illinois

Gro-Crop, Inc., Summerdale, Alabama

Heinl's Greenhouses, 4401 La Grange Street, Toledo, Ohio

Heller Greenhouse Laboratories, 218 E. Pikes Peak Ave, Colorado Springs, Colorado

A. H. Hoffman, Inc., Landisville, Pennsylvania

Hoover Soil Service, Gilman, Illinois

Hosdreg Company, Inc., Deming, New Mexico

Hydroponic Chemical Company, Incorporated, Copley, Ohio

- International Minerals and Chemical Corp., Box 928, Texarkana, Arkansas
- International Minerals and Chemical Corp., Thompson Phosphate Division, 20 North Wacker Drive, Chicago 6, Illinois

Kelly, Weber and Company, Inc., Lake Charles, Louisiana

Lake Charles Feed Company, Inc., Lake Charles, Louisiana

Lion Oil Company, El Dorado, Arkansas

Loamium Company of America, 2 Kingsland Ave., Harrison, New Jersey

Mathieson Chemical Corp., Box 991, Little Rock, Arkansas McCormick and Company, Inc., Baltimore 2, Maryland

FERTILIZER GUARANTORS REGISTERED IN TEXAS, 1954-55 — Continued

Minden Cotton Oil and Ice Company, Ltd., Minden, Louisiana

Mississippi Chemical Corp., Yazoo City, Mississippi

Monsanto Chemical Company, 1700 S. Second St., St. Louis, Missouri

Na-Churs Plant Food Company, 421 Monroe Street, Marion, Ohio

Natural Plant Food Company, 210 W. California, Oklahoma City, Oklahoma

New York Hanseatic Corp., 120 Broadway, New York, New York

Nagara Chemical Div., Food Machinery Chemical Corp., Middleport, N. Y.

Nutritional Concentrates, Box 309, New Lexington, Ohio

Oklahoma Fertilizer Chemical Company, Box 2665, Oklahoma City, Oklahoma

Phillips Chemical Company, Bartlesville, Oklahoma

Plantabbs Corporation, 1105 Maryland, Baltimore, Maryland

Proen Products Company, 9th and Grayson, Berkeley, California

la-Pid-Gro Corp., 88 Ossian Street, Dansville, New York

Reliance Fertilizer Company, 106 East Bay Street, Savannah, Georgia

keuther Seed Co. Inc., New Orleans 9, La.

Win Jones Phosphate Company, Box 1021, Nashville, Tennessee

hhm Phosphate & Chemical Co., 813 S. Garden Street, Columbia, Tennessee

M. M. Scott and Sons, Company, Marysville, Ohio

vars, Roebuck and Company, 925 South Homan Avenue, Chicago 7, Illinois Sewerage Commission of the City of Milwaukee, Box 2097, Milwauke 1, Wisconsin

Shreveport Fertilizer Works, Shreveport, Louisiana

Soil Booster Corp., 2501 East Fourth Street, Oklahoma City, Oklahoma

Soil Builders, Inc., Dunnellon, Florida

Spencer Chemical Company, 610 Dwight Building, Kansas City, Missouri

Sterns Garden Products, Geneva, New York

Stimuplant Labs., Box 1955, Columbus 16, Ohio

Sunshine Plant Food Company, Box 885, Clovis, New Mexico

- Swift and Company, Plant Food Division, Box 3567 Queensboro Station, Shreveport, Louisiana
- Synthetic Nitrogen Products Corp., 285 Madison Avenue, New York 17, New York

Tennessee Corp., 619-27 Grant Building, Atlanta, Georgia

Tennessee Corp., Lockland, Cincinnati 1, Ohio

Umbaugh Agricultural Chemical Company, Memphis, Tennessee

U. S. Phosphoric Division, Tennessee Corp., Box 3269, Tampa, Florida

U. S. Steel Corp., Tennessee Coal & Iron Division, Box 599, Fairfield, Alabama

Versenes Inc., Framingham, Massachusetts

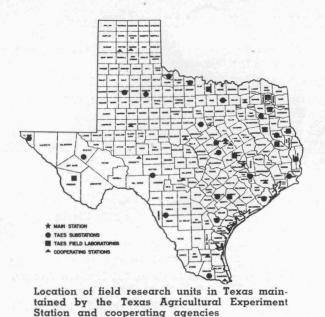
Virginia-Carolina Chemical Corp., Box 3218 Queensboro Station, Shreveport, Louisiana

Victor Chemical Works, 141 W. Jackson, Chicago, Illinois

Waldo Fertilizer Works, Waldo, Arkansas

Western Mines, Inc., 1400 S. Lipan, Denver, Colorado

Western Phosphates, Inc., P.O. Box 308, Garfield, Utah



State-wide Research

The Texas Agricultural Experiment Station is the public agricultural research agency of the State of Texas, and is one of nine parts of the Texas A&M College System

IN THE MAIN STATION, with headquarters at College Station, are 16 subject-matter departments, 2 service departments, 3 regulatory services and the administrative staff. Located out in the major agricultural areas of Texas are 21 substations and 9 field laboratories. In addition, there are 14 cooperating stations owned by other agencies, including the Texas Forest Service, the Game and Fish Commission of Texas, the U. S. Department of Agriculture, University of Texas, Texas Technological College and the King Ranch. Some experiments are conducted on farms and ranches and in rural homes.

KESEARCH BY THE TEXAS STATION is organized by programs and projects. A program of research represents a coordinated effort to solve the many problems relating to a common objective or situation. A research project represents the procedures for attacking a specific problem within a program.

THE TEXAS STATION is conducting about 350 active research projects, grouped in 25 programs which include all phases of agriculture in Texas. Among these are: conservation and improvement of soils; conservation and use of water in agriculture; grasses and legumes for pastures, ranges, hay, conservation and improvement of soils; grain crops; cotton and other fiber crops; vegetable crops; citrus and other subtropcal fruits; fruits and nuts; oil seed crops—other than cotton; ornamental plants—including turf; brush and weeds; insects; plant diseases; beef cattle; dairy cattle; sheep and goats; swine; chickens and turkeys; anmal diseases and parasites; fish and game on farms and ranches; farm and ranch engineering; farm and ranch business; marketing agricultural products; rural home economics; and rural agricultural economics. Two additional programs are maintenance and upkeep, and central services.

RESEARCH RESULTS are carried to Texas farm and ranch owners and homemakers by specialists and county agents of the Texas Agricultural Extension Service.