

# TEXAS AGRICULTURAL EXPERIMENT STATIONS

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BULLETIN NO. 140  
CHEMICAL SECTION

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## COMMERCIAL FERTILIZERS

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BY  
G. S. FRAPS, Chemist



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NOTE—The main station is located on the grounds of the Agricultural and Mechanical College, in Brazos County. The postoffice address is College Station, Texas. Reports and bulletins are sent free upon application to the Director.

## AVAILABLE BULLETINS.

The following is a list of Bulletins of this Experiment Station available for distribution. The others are out of print. Any of these Bulletins will be sent free of charge. Requests should be directed to the Director of the Experiment Station, College Station, Texas:

- 79 Cotton Breeding.
- 96 Commercial Fertilizers and Poisonous Insecticides, 1906-07.
- 97 Kaffir Corn and Milo Maize for Fattening Cattle.
- 98 Summary of All Bulletins from No. 1 to No. 94, inclusive.
- 100 Chemical Composition of Some Texas Soils.
- 105 Notes on Forest and Ornamental Trees.
- 107 Commercial Fertilizers and Poisonous Insecticides, 1907-08.
- 108 Winter Bur Clover.
- 111 Texas Fever.
- 112 Nature and Use of Commercial Fertilizers.
- 113 Spray Calendar.
- 114 Composition of White Lead and Paints.
- 115 Fertilizer Test with Onions.
- 119 Infectious Anaemia of the Horse.
- 120 Corn and Cotton Experiments for 1908.
- 121 Report of Progress at the Troup Sub-Station.
- 123 Commercial Fertilizers and Poisonous Insecticides, 1908-09.
- 124 The Pecan-Case Bearer.
- 126 Active Phosphoric Acid and Its Relation to the Needs of the Soil for Phosphoric Acid in Pot Experiments.
- 128 Cottonseed Meal as Human Food.
- 129 Studies of the Ammonia-Soluble Organic Matter of the Soil.
- 131 Hog Feeding Experiments.
- 132 Co-operative Forage Crop Work.
- 134 Report of the Director on the Establishment of the New State Stations.
- 135 Feeding Experiments with Steers and Hogs.
- 136 Organic Phosphoric Acid of the Soil.
- 137 Alfalfa in Northwest Texas.
- 138 Co-operative Fertilizer Experiments with Corn, Cotton, Rice, Onions, Peanuts, Potatoes, and Tomatoes, 1908-9-10.
- 139 Electrolysis of Humus Solutions. An improved Method for the Estimation of Humus.

# COMMERCIAL FERTILIZERS IN 1910-1911.

G. S. FRAPS.

This Bulletin deals with the State control of commercial fertilizers and poisonous insecticides. Information regarding the nature and use of fertilizers is contained in Bulletin No. 112, copies of which will be sent free on application. The quantity of commercial fertilizers, exclusive of cottonseed meal, sold in Texas from September 1st to May 1st is as follows for the last six seasons:

1905-06 .....	13,500	Tons
1906-07 .....	19,200	Tons
1907-08 .....	21,850	Tons
1908-09 .....	23,800	Tons
1909-10 .....	34,000	Tons
1910-11 .....	52,985	Tons

## NEW FERTILIZER LAW.

A new fertilizer law was enacted by the Legislature of 1911, which gives much better protection to the consumer than the previous law.

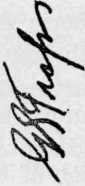
The fertilizer will no longer carry the analysis on a tag printed by the State Chemist, but the analysis must be printed by the manufacturer either on a tag, and attached to the package, or on the bag itself. Consumers of fertilizers can easily examine the bags or tags and ascertain the guaranteed composition of the fertilizer. If the printing, for any reason, is not clear, or can not be read, the State Chemist should be notified, as the law requires the printing to be legible and durable.

Samples will be collected by the inspectors and subjected to analysis as heretofore, and the law provides adequate penalties for the sale of inferior, adulterated, or short-weight goods. Full copies of the law will be sent on request.

## FORM OF TAG.

Every package of fertilizer sold or delivered in this State, must have an official tag attached, as evidence that said fertilizer is registered under the law and subject to State inspection.

The following is a sample of the tag, which will be used for the season ending September 1, 1912:

© <b>TEXAS</b> 1912	<b>100 POUNDS FERTILIZER</b> <b>GUARANTEED</b>	Under Texas Law and Sold Subject to Inspection <b>COMPOSITION</b> guaranteed must be plainly visible on package.		INFORMATION BULLETINS FREE	No 88894
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## FREE ANALYSES.

The law provides that any farmer may take a sample of fertilizer for the purpose of free analysis. Those who desire a free analysis should write for a blank "Application for free analysis," to the State Chemist, College Station, Texas, before taking or sending the sample.

### EXPLANATION OF TERMS.

*Total phosphoric acid* is the entire quantity of phosphoric acid present in the fertilizer. Phosphoric acid is always present united to something else. Its value depends upon the form of combination in which it is present.

*Water-soluble phosphoric acid* is the phosphoric acid soluble in water and easily taken up by the plants.

*Reverted phosphoric acid* is not soluble in water, but can be taken up easily by plants.

*Available phosphoric acid* is the sum of the water-soluble and reverted, and is that portion of the total which can be taken up immediately by plants.

*Nitrogen* may be present in fertilizers, in the form of cotton seed meal, nitrate of soda, tankage, blood or (less often) in other materials.

*Equivalent to ammonia* is the nitrogen calculated to ammonia, and is the same thing as the nitrogen, expressed in a different way.

*Potash* may be present as muriate of potash, sulphate of potash or kaimit.

*Valuation per ton* represents the cost of the plant food in the un-mixed raw material at retail in large markets. It is not the price at which the fertilizer is sold. The selling price includes cost of mixing, sacks, transportation, manufacturer's profit, in addition to the cost of the raw material.

### FERTILIZER VALUATIONS 1910-11.

The following valuations have been adopted for commercial fertilizers in Texas for the season 1910-11:

	Cents per Pound.
Available phosphoric acid in mixed fertilizers and bat guano.....	6
Total phosphoric acid in tankage and bone.....	4
Nitrogen in mixed fertilizers and bat guano.....	20
Nitrogen in bone and tankage.....	19
Potash .....	6

### ANALYSES OF FERTILIZERS, 1910-11.

The tables beginning at the top of page 7 give a list of the fertilizers registered for sale in Texas for September 1, 1910, to September 1, 1911. In addition to the name and address of the manufacturer and the name of the brand, the following information and analyses are given:

(a) *Guarantee*.—The amount of plant food guaranteed by the manufacturer to be present in the fertilizer.

(b) *Valuation*.—The valuation of the fertilizer as already defined based on the guaranteed composition.

(c) *Manufacturer's Sample*.—The chemical analyses of the sample of the fertilizer, submitted by the manufacturer, together with an affidavit that the sample represents the goods which he is to offer for sale within this State.

(d) *Farmer's Sample*.—The chemical analysis of such samples as were sent in by consumers in accordance with the provisions of the law.

(e) *Inspector's Sample*.—The chemical analysis of the samples collected by our inspectors.

(f) *Heavy Type*.—Analyses below guarantee are brought out in heavy type.

The analyses given are from samples taken under the *old law*, which has now been superseded by the new law previously referred to. Analyses were made by S. E. Asbury, T. L. Ogier, J. B. Herron, M. B. Gottlieb, and L. C. Ludlum.

Analyses of Commercial Fertilizers, Season of 1910-11.

Laboratory Number	Manufacturer, Place of Business, and Brand.	Phosphoric Acid		Nitrogen—Per Cent	Potash—Per Cent	Valuation
		Available—Per Cent.	Total—Per Cent			
<b>Arkansas Fertilizer Co., Little Rock, Ark.—</b>						
	White Diamond Acid Phosphate—					
	Guarantee .....	14.00	16.00	.....	.....	\$16.80
18471	Manufacturer's sample.....	13.55	14.72	.....	.....	16.26
18622	Inspector's sample.....	14.48	15.77	.....	.....	17.38
18909	Inspector's sample.....	14.09	15.79	.....	.....	16.91
	White Diamond Corn Grower—					
	Guarantee .....	8.00	10.00	1.65	3.00	19.80
18478	Manufacturer's sample.....	7.98	8.88	1.68	3.56	20.57
	White Diamond Early Potato and					
	Trucker—Guarantee .....	8.00	10.00	2.47	4.00	24.28
18467	Manufacturer's sample.....	8.08	8.93	2.56	4.18	24.96
18621	Inspector's sample.....	7.71	8.72	2.29	4.13	23.36
18650	Inspector's sample.....	9.42	10.26	2.00	2.70	22.54
18710	Inspector's sample.....	7.76	8.69	2.11	3.81	22.32
18878	Inspector's sample.....	8.44	9.25	2.23	4.37	24.29
	White Diamond High Grade Cotton					
	Fertilizer—Guarantee .....	10.00	11.00	2.00	2.50	23.00
18888	Manufacturer's sample.....	9.90	10.63	2.62	2.45	25.30
	White Diamond Meal Base Fertilizer—					
	Guarantee .....	9.00	11.00	1.65	2.00	19.80
18468	Manufacturer's sample.....	8.94	9.90	1.94	2.24	21.18
18761	Inspector's sample.....	9.02	10.90	1.50	1.85	19.04
18879	Inspector's sample.....	8.28	9.23	2.20	2.42	21.64
	White Diamond Number Thirty-nine—					
	Guarantee .....	10.00	12.00	.83	1.00	16.52
18472	Manufacturer's sample.....	9.88	10.85	.93	1.24	17.07
18868	Inspector's sample.....	9.88	13.23	.91	1.15	16.88
	White Diamond Peanut Fertilizer—					
	Guarantee .....	9.00	11.00	.83	4.00	18.92
18470	Manufacturer's sample.....	9.90	11.02	1.07	4.66	21.75
	White Diamond Southern Standard—					
	Guarantee .....	10.00	12.00	1.65	1.50	20.40
18469	Manufacturer's sample.....	9.93	10.93	1.80	1.77	21.24
18651	Inspector's sample.....	9.67	10.93	1.69	1.54	20.21
18712	Inspector's sample.....	9.12	10.83	1.61	1.81	19.55
18880	Inspector's sample.....	10.61	11.72	1.66	1.91	21.66
18908	Inspector's sample.....	10.35	12.50	1.33	1.40	19.42
18910	Inspector's sample.....	11.48	12.42	1.42	1.63	21.42
	White Diamond Texas Standard—					
	Guarantee .....	10.00	11.00	1.65	1.00	19.80
18475	Manufacturer's sample.....	9.98	10.98	1.72	1.34	20.47
18623	Inspector's sample.....	9.81	11.23	1.78	1.37	20.53
18711	Inspector's sample.....	10.25	11.62	1.53	1.23	19.90
18859	Inspector's sample.....	9.02	10.38	1.86	1.42	19.96
18881	Inspector's sample.....	9.42	10.46	2.02	1.41	21.07
<b>Armour Fertilizer Works, New Orleans, La.—</b>						
	African Cotton Grower—Guarantee..	9.00	9.50	2.47	3.00	24.28
18868	Manufacturer's sample.....	9.35	11.12	2.76	3.46	26.41
18912	Inspector's sample.....	9.95	11.80	1.97	2.73	23.10
	Armour's Corn Special—Guarantee..	6.00	6.50	1.65	1.00	15.00
18474	Manufacturer's sample.....	6.07	8.44	2.24	1.42	17.94
18661	Inspector's sample.....	5.73	6.90	1.42	1.16	13.95
18723	Inspector's sample.....	5.41	8.62	1.61	1.27	14.45
	Armour's Potato—Guarantee.....	10.00	10.50	2.47	6.00	29.08
18864	Manufacturer's sample.....	10.89	11.38	2.72	6.80	32.01
18647	Inspector's sample.....	10.38	11.52	2.88	6.11	31.31
	Armour's Truck Special—Guarantee.	7.00	7.50	4.11	6.00	32.04
18862	Manufacturer's sample.....	6.78	7.48	4.04	6.72	32.36
	Bone Meal—Guarantee.....	.....	27.00	1.97	.....	29.09
18816	Manufacturers sample.....	.....	27.55	2.17	.....	30.29
	Corn and Cotton Grower—					
	Guarantee .....	8.00	8.50	.82	1.00	14.08
18349	Manufacturer's sample.....	7.68	9.37	1.14	1.77	15.90
18778	Inspector's Sample.....					
18818	Inspector's sample.....	7.56	9.17	.96	1.20	14.35
18914	Inspector's sample.....	8.55	9.50	.84	1.21	15.07
	King Cotton—Guarantee.....	8.00	8.50	1.65	2.00	18.60
18350	Manufacturer's sample.....	7.75	9.83	2.02	2.38	20.24
18409	Inspector's sample.....	7.07	8.77	1.46	2.59	17.45
18546	Inspector's sample.....	7.49	9.95	1.96	2.32	19.61
18688	Inspector's sample.....	7.44	8.86	1.68	2.32	18.48

**Analyses of Commercial Fertilizers, Season of 1910-11.**

Laboratory Number	Manufacturer, Place of Business, and Brand.	Phosphoric Acid		Nitrogen—Per Cent	Potash—Per Cent	Valuation
		Available—Per Cent.	Total—Per Cent			
<b>Armour Fertilizer Works, New Orleans, La.—continued.</b>						
King Cotton—Continued.						
13690	Inspector's sample.....	6.48	9.53	1.80	1.86	17.21
13821	Inspector's sample.....	7.40	9.79	1.42	1.98	18.34
13822	Inspector's sample.....	6.63	9.51	1.41	1.81	15.77
Phosphate and Potash—Guarantee...		10.00	10.50	.....	2.00	14.40
13357	Manufacturer's sample.....	10.80	10.97	.....	2.38	15.53
13408	Inspector's sample.....	9.68	10.93	.....	2.55	14.93
Raw Bone Meal—Guarantee.....		.....	22.00	3.70	.....	31.53
13358	Manufacturer's sample.....	.....	23.41	3.85	.....	33.34
13407	Inspector's sample.....	.....	23.13	3.90	.....	33.31
13776	Inspector's sample.....	.....	22.88	3.74	.....	32.51
13782	Inspector's sample.....	.....	23.28	3.83	.....	33.17
Soluble Phosphate and Potash—						
Guarantee.....		10.00	10.50	.....	4.00	16.30
13355	Manufacturer's sample.....	10.77	10.91	.....	4.15	17.30
Star Phosphate—Guarantee.....		14.00	14.50	.....	.....	16.80
13356	Manufacturer's sample.....	14.64	14.85	.....	.....	17.57
13660	Inspector's sample.....	14.63	15.77	.....	.....	17.54
13775	Inspector's sample.....	14.04	15.17	.....	.....	16.85
13913	Inspector's sample.....	14.35	15.54	.....	.....	17.32
Star Phosphate, 16 Per Cent—						
Guarantee.....		16.00	16.50	.....	.....	19.20
13816	Manufacturer's sample.....	14.44	16.68	.....	.....	17.33
13898	Farmer's sample.....	14.42	16.57	.....	.....	17.30
13923	Farmer's sample.....	16.46	17.80	.....	.....	19.75
Texas Vegetable Grower—Guarantee.						
13351	Manufacturer's sample.....	9.00	9.50	2.05	3.00	22.60
13406	Inspector's sample.....	9.03	10.12	1.61	4.21	22.33
13548	Inspector's sample.....	8.72	10.32	2.32	3.44	23.87
13687	Inspector's sample.....	8.06	10.82	2.30	3.49	23.04
13689	Inspector's sample.....	8.98	10.09	2.17	3.30	23.41
13774	Inspector's sample.....	8.01	10.67	2.44	2.49	22.36
13774	Inspector's sample.....	7.44	10.43	2.19	3.24	21.58
13839	Inspector's sample.....	9.43	10.45	2.17	3.46	24.15
<b>G. L. Barber, Jacksonville, Texas—</b>						
Acid Phosphate—Guarantee.....		14.00	14.50	.....	.....	16.80
13434	Manufacturer's sample.....	15.18	15.70	.....	.....	18.22
<b>Bowie County Cotton Oil Co., New Boston, Texas—</b>						
Acid Phosphate—Guarantee.....		14.00	14.50	.....	.....	16.80
13810	Manufacturer's sample.....	17.17	17.45	.....	.....	20.60
13899	Inspector's sample.....	15.18	16.82	.....	.....	18.22
<b>Bryan Cotton Oil &amp; Fertilizer Co., Bryan, Texas—</b>						
Star Brand Acid Phosphate—						
Guarantee.....		14.00	14.50	.....	.....	16.80
13484	Manufacturer's sample.....	16.07	16.22	.....	.....	19.23
13599	Inspector's sample.....	16.52	17.11	.....	.....	19.82
Star Brand Cotton and Corn—						
Guarantee.....		11.50	12.00	1.80	.30	21.34
13483	Manufacturer's sample.....	12.57	12.77	2.16	.47	24.23
13594	Inspector's sample.....	12.06	12.32	2.08	.52	23.41
13818	Inspector's sample.....	13.37	14.60	1.77	.45	23.56
13819	Inspector's sample.....	13.75	14.54	1.91	.42	24.64
Star Brand Potato Fertilizer—						
Guarantee.....		8.00	8.50	3.50	.60	24.31
13485	Manufacturer's sample.....	8.67	8.90	4.22	.94	28.41
13595	Inspector's sample.....	10.48	10.73	3.57	.77	27.78
<b>City of Paris, Paris, Texas—</b>						
Paris Tankage—Guarantee.....		2.90	5.00	4.90	.....	22.10
13266	Manufacturer's sample.....	3.05	5.18	5.15	.....	23.23
13699	Inspector's sample.....	3.44	4.80	5.23	.....	24.00
13911	Inspector's sample.....	3.58	5.45	5.42	.....	24.90
<b>Clarksville Cotton Oil Co., Clarksville, Texas—</b>						
Acid Phosphate—Guarantee.....		16.00	16.50	.....	.....	19.20
13312	Manufacturer's sample.....	16.60	16.88	.....	.....	19.92
13904	Inspector's sample.....	15.82	16.20	.....	.....	18.98



**Analyses of Commercial Fertilizers, Season of 1910-11.**

Laboratory Number	Manufacturer, Place of Business, and Brand.	Phosphoric Acid		Nitrogen—Per Cent	Potash—Per Cent	Valuation
		Available—Per Cent.	Total—Per Cent			
	<b>Consumers Fertilizer Co., Shreveport, La.—</b>					
	Acid Phosphate—Guarantee.....	16.00	18.00	.....	.....	19.20
13442	Manufacturer's sample.....	15.37	16.02	.....	.....	18.44
13629	Inspector's sample.....	16.84	17.97	.....	.....	20.21
13901	Inspector's sample.....	16.90	18.10	.....	.....	20.28
	<b>Three States Cotton A—Guarantee...</b>	10.00	11.00	1.65	1.50	20.40
13440	Manufacturer's sample.....	9.89	11.10	1.80	1.77	21.19
13763	Inspector's sample.....	10.63	11.65	1.82	1.48	21.82
13764	Inspector's sample.....	11.02	11.61	1.68	1.58	21.84
13900	Inspector's sample.....	11.06	11.88	1.55	1.69	21.50
	<b>Three States Cotton C—Guarantee...</b>	8.00	9.00	1.65	2.00	18.60
13441	Manufacturer's sample.....	7.71	8.71	1.86	2.56	19.76
	<b>Three States Vegetable—Guarantee..</b>	8.00	9.00	2.50	5.00	25.60
13486	Manufacturer's sample.....	8.68	8.82	2.59	4.42	26.08
	<b>Tri-State Corn—Guarantee.....</b>	6.50	7.50	2.90	.25	19.70
13438	Manufacturer's sample.....	7.61	7.85	2.95	.39	21.40
13700	Inspector's sample.....	6.79	7.65	3.06	.42	20.89
13847	Inspector's sample.....	7.44	7.89	2.83	.38	20.71
	<b>Tri-State Cotton—Guarantee.....</b>	9.50	10.50	1.85	.25	19.10
13437	Manufacturer's sample.....	11.58	11.89	2.07	.28	22.52
13626	Inspector's sample.....	9.74	10.65	2.50	.50	22.29
13627	Inspector's sample.....	10.28	11.22	2.04	.37	20.94
13693	Inspector's sample.....	9.51	10.10	2.05	.44	20.15
13845	Inspector's sample.....	9.53	10.21	1.86	.35	19.30
	<b>Tri-State Special—Guarantee.....</b>	11.00	12.00	2.67	.25	24.18
13439	Manufacturer's sample.....	12.12	12.48	2.86	.34	26.39
13625	Inspector's sample.....	12.14	13.05	2.82	.47	26.41
13628	Inspector's sample.....	12.28	12.97	2.42	.47	24.98
13846	Inspector's sample.....	11.76	12.54	2.48	.34	24.44
	<b>Nitrate of Soda—Guarantee.....</b>	.....	.....	15.00	.....	60.00
13443	Manufacturer's sample.....	.....	.....	14.93	.....	59.72
	<b>Daingerfield Cotton Oil &amp; Fertilizer Co., Daingerfield, Texas—</b>					
	Cotton and Corn—Guarantee.....	10.50	10.80	2.00	.30	20.96
13586	Manufacturer's sample.....	10.65	11.11	2.61	.26	23.73
13701	Inspector's sample.....	10.62	11.32	2.70	.44	24.07
	<b>East Texas Fertilizer Co., Tyler, Texas—</b>					
	Acid Phosphate—Guarantee.....	14.00	15.00	.....	.....	16.80
13448	Manufacturer's sample.....	16.49	16.63	.....	.....	19.79
13550	Inspector's sample.....	14.65	15.00	.....	.....	17.58
	<b>Corn and Cotton—Guarantee.....</b>	8.00	8.50	2.00	2.00	20.00
13446	Manufacturer's sample.....	10.21	10.36	2.01	2.51	23.30
13551	Inspector's sample.....	7.83	8.17	1.80	2.48	19.58
13552	Inspector's sample.....	7.49	7.66	1.73	2.35	18.73
	<b>Crop Grower—Guarantee.....</b>	8.25	8.50	3.40	2.65	26.68
13445	Manufacturer's sample.....	8.30	8.48	3.40	2.67	26.76
13549	Inspector's sample.....	8.20	8.60	2.78	3.09	24.67
	<b>Tomato Special—Guarantee.....</b>	10.00	10.50	2.65	.50	23.20
13447	Manufacturer's sample.....	10.15	10.35	2.67	.59	23.57
13553	Inspector's sample.....	10.36	10.77	2.07	.43	21.23
13554	Inspector's sample.....	9.52	9.91	2.76	.57	23.14
	<b>Farmers &amp; Ginners Cotton Oil Co., Sulphur Springs, Texas—</b>					
	Acid Phosphate—Guarantee.....	14.00	14.50	.....	.....	16.80
13444	Manufacturer's sample.....	14.00	14.25	.....	.....	16.80
13703	Inspector's sample.....	15.07	15.31	.....	.....	18.08
	<b>Farmers' Acid Phosphate—Guarantee</b>	14.00	14.50	.....	.....	16.80
13480	Manufacturer's sample.....	13.82	15.07	.....	.....	16.58
13707	Inspector's sample.....	14.68	15.19	.....	.....	17.62
13917	Inspector's sample.....	15.50	17.44	.....	.....	18.60
	<b>Farmers' Corn Fertilizer—</b>					
	Guarantee.....	8.00	10.00	2.00	3.00	21.20
13478	Manufacturer's sample.....	8.59	9.43	1.80	3.41	21.60
13704	Inspector's sample.....	8.91	9.13	1.70	3.43	21.61
13918	Inspector's sample.....	9.61	10.37	1.83	3.18	22.76
	<b>Farmers' Cotton Fertilizer—</b>					
	Guarantee.....	9.00	11.00	2.00	2.00	21.20
13476	Manufacturer's sample.....	9.17	10.03	1.81	2.24	20.93
13706	Inspector's sample.....	9.13	9.49	1.74	2.88	21.38
13916	Inspector's sample.....	8.80	9.39	1.79	2.37	20.56
13919	Inspector's sample.....	10.25	11.19	1.85	2.16	22.29

**Analyses of Commercial Fertilizers, Season of 1910-11.**

Laboratory Number	Manufacturer, Place of Business, and Brand.	Phosphoric Acid				Valuation
		Available Per Cent.	Total Per Cent	Nitrogen-Per Cent	Potash-Per Cent	
	<b>Farmers &amp; Ginners Cotton Oil Co., Sulphur Springs, Texas—Continued.</b>					
	Farmers' Cotton Fruiter—Guarantee.	10.00	11.00	1.00	1.00	17.20
13477	Manufacturer's sample.....	9.69	10.70	1.41	1.18	18.80
13915	Inspector's sample.....	10.94	12.05	.76	1.32	17.70
	Farmers' Fruit Maker—Guarantee...	10.00	11.00	.....	4.00	16.80
13481	Manufacturer's sample.....	10.38	11.19	.....	3.95	17.20
	Farmers' Truck Fertilizer— Guarantee .....	8.00	10.00	3.00	4.00	26.40
13479	Manufacturer's sample.....	8.28	9.09	2.66	4.66	26.17
13705	Inspector's sample.....	8.86	9.12	2.61	4.12	26.01
	<b>Fidelity Cotton Oil &amp; Fertilizer Co., Houston, Texas—</b>					
	Fidelity Acid Phosphate—Guarantee.	14.00	15.50	.....	.....	16.80
13265	Manufacturer's sample.....	14.99	15.25	.....	.....	17.90
13928	Farmer's sample.....	12.04	14.12	.....	.....	14.45
13420	Inspector's sample.....	14.22	14.36	.....	.....	17.04
13482	Inspector's sample.....	14.32	15.47	.....	.....	17.15
13504	Inspector's sample.....	14.16	15.10	.....	.....	16.90
13582	Inspector's sample.....	15.16	16.70	.....	.....	18.15
13680	Inspector's sample.....	14.25	15.60	.....	.....	17.10
13763	Inspector's sample.....	14.12	16.02	.....	.....	16.94
13756	Inspector's sample.....	14.98	15.84	.....	.....	17.90
13791	Inspector's sample.....	14.37	15.10	.....	.....	17.24
	Fidelity Ammoniated Bone Meal— Guarantee .....	.....	20.50	3.85	.....	31.00
13259	Manufacturer's sample.....	.....	20.80	3.73	.....	30.81
13866	Inspector's sample.....	.....	22.85	3.92	.....	33.17
	Fidelity Ammoniated Superphos- phate—Guarantee .....	10.00	11.00	1.65	1.00	19.80
13539	Manufacturer's sample.....	9.33	9.86	2.48	1.55	22.90
13635	Inspector's sample.....	9.50	10.35	1.78	1.14	19.83
	Fidelity Cereal Cultivator— Guarantee .....	6.00	7.00	2.47	1.00	18.20
13255	Manufacturer's sample.....	6.26	6.35	2.62	1.05	19.25
13515	Inspector's sample.....	4.51	5.01	2.36	1.07	16.13
13602	Inspector's sample.....	3.80	4.35	2.66	1.04	16.45
13682	Inspector's sample.....	4.06	9.95	2.38	.97	15.55
13684	Inspector's sample.....	4.91	5.70	2.39	1.31	17.00
13780	Inspector's sample.....	6.12	7.07	2.05	.93	16.66
13833	Inspector's sample.....	6.10	6.61	2.44	1.05	18.34
	Fidelity Citrus Grower—Guarantee..	7.00	7.50	2.88	8.00	29.50
13435	Manufacturer's sample.....	7.29	7.58	3.10	8.63	31.51
	Fidelity Cotton Special—guarantee..	10.00	11.00	1.65	2.00	21.00
13251	Manufacturer's sample.....	10.87	11.05	1.91	2.24	23.37
13508	Inspector's sample.....	9.38	10.09	1.51	2.23	19.98
13691	Inspector's sample.....	8.69	10.18	1.76	2.03	19.91
13755	Inspector's sample.....	10.07	10.79	1.64	1.89	20.91
13757	Inspector's sample.....	10.22	10.74	1.68	1.58	20.88
13777	Inspector's sample.....	9.79	10.57	1.91	2.16	21.98
13790	Inspector's sample.....	10.12	10.91	1.54	1.81	20.47
	Fidelity Cotton Special No. 2— Guarantee .....	10.00	11.00	1.65	1.50	20.40
13252	Manufacturer's sample.....	11.12	11.25	1.82	1.59	22.53
13503	Inspector's sample.....	9.53	10.03	1.47	1.79	20.87
13581	Inspector's sample.....	9.92	10.39	2.12	1.83	22.58
13600	Inspector's sample.....	9.48	10.35	1.73	1.50	20.10
13615	Inspector's sample.....	8.74	9.88	1.94	1.50	20.05
13730	Inspector's sample.....	9.79	10.70	1.76	1.69	20.82
13834	Inspector's sample.....	9.29	10.71	1.71	1.38	19.65
	Fidelity Cotton Standard—Guarantee	8.00	9.00	2.06	1.50	19.64
13254	Manufacturer's sample.....	8.68	8.78	2.36	1.53	21.70
13427	Inspector's sample.....	7.19	7.74	2.08	1.53	18.79
13510	Inspector's sample.....	6.51	7.21	1.85	1.78	17.86
13542	Inspector's sample.....	7.46	7.97	2.10	1.86	19.58
13601	Inspector's sample.....	7.45	8.30	2.19	1.72	19.76
13603	Inspector's sample.....	6.08	6.81	2.01	1.87	17.58
13659	Inspector's sample.....	6.00	6.91	2.10	1.48	17.86
13729	Inspector's sample.....	6.96	7.91	2.08	1.30	18.83
13852	Inspector's sample.....	8.28	9.22	1.85	1.48	19.12
	Fidelity Kalnit—Guarantee .....	.....	.....	.....	12.00	14.40
13261	Manufacturer's sample.....	.....	.....	.....	11.71	14.05
13423	Inspector's sample.....	.....	.....	.....	11.81	14.17
13505	Inspector's sample.....	.....	.....	.....	12.17	14.60

**Analyses of Commercial Fertilizers, Season of 1910-11.**

Laboratory Number	Manufacturer, Place of Business, and Brand.	Phosphoric Acid		Nitrogen—Per Cent	Potash—Per Cent	Valuation
		Available—Per Cent.	Total—Per Cent			
	<b>Fidelity Cotton Oil &amp; Fertilizer Co., Houston, Texas—Continued.</b>					
	Fidelity Kainit—Continued.					
13467	Inspector's sample.....				12.08	14.50
	Fidelity Laredo Special—					
	Guarantee .....	5.00	5.50	3.87	8.00	31.08
13256	Manufacturer's sample.....	5.10	5.23	4.40	8.14	33.49
13397	Inspector's sample.....	4.56	4.71	3.70	7.00	28.67
13425	Inspector's sample.....	4.12	4.42	3.65	7.33	28.34
13509	Inspector's sample.....	4.17	4.48	3.61	6.35	27.06
	Fidelity Lone Star Special—					
	Guarantee .....	10.00	11.00	1.65	6.00	25.80
13249	Manufacturer's sample.....	11.15	11.25	1.95	5.78	28.12
13513	Inspector's sample.....	9.35	10.09	1.47	6.10	24.42
	Fidelity Muriate of Potash—					
	Guarantee .....				50.00	60.00
13512	Inspector's sample.....				52.90	63.48
13656	Inspector's sample.....				48.77	58.52
	Fidelity Nitrate of Soda—					
	Guarantee .....			15.00		60.00
13264	Manufacturer's sample.....			15.09		60.36
13295	Inspector's sample.....			15.28		61.12
13511	Inspector's sample.....			14.77		59.08
13681	Inspector's sample.....			15.38		61.52
	Fidelity Orange Special—Guarantee.	7.00	8.00	2.88	5.00	25.92
13260	Manufacturer's sample.....	6.84	7.02	3.34	6.23	29.05
13793	Inspector's sample.....	7.73	8.05	3.01	4.02	26.14
13862	Inspector's sample.....	7.44	7.70	2.66	5.24	25.86
	Fidelity Peerless Trucker—					
	Guarantee .....	8.00	9.00	2.47	5.00	25.48
13248	Manufacturer's sample.....	8.90	9.00	2.78	4.94	27.73
13506	Inspector's sample.....	7.44	8.02	2.48	4.52	24.27
13580	Inspector's sample.....	7.02	7.46	2.22	5.35	23.72
13683	Inspector's sample.....	6.58	7.77	2.27	5.25	23.28
13789	Inspector's sample.....	8.58	9.06	2.23	4.35	24.44
13865	Inspector's sample.....	7.76	8.66	2.52	4.26	24.50
	Fidelity Potato Special—					
	Guarantee .....	7.00	8.00	2.06	3.00	20.24
13253	Manufacturer's sample.....	7.71	7.80	2.36	3.24	22.58
13426	Inspector's sample.....	6.44	6.93	2.04	3.07	19.57
13507	Inspector's sample.....	6.40	7.18	1.90	3.14	19.05
13579	Inspector's sample.....	5.83	6.41	1.90	3.36	18.63
13658	Inspector's sample.....	6.60	7.13	1.87	3.63	19.76
13769	Inspector's sample.....	6.80	7.56	2.19	2.87	20.36
13778	Inspector's sample.....	7.06	7.92	2.12	3.44	21.08
13792	Inspector's sample.....	6.35	7.49	1.91	3.02	18.88
13832	Inspector's sample.....	6.61	7.39	2.14	3.39	20.56
	Fidelity Rice Planter—Guarantee....	12.00	13.00		2.00	16.80
13258	Manufacturers sample.....	13.65	14.00		2.15	18.96
13795	Inspector's sample.....	10.72	13.51		1.69	14.89
13804	Inspector's sample.....	11.47	14.44		1.59	15.65
	Fidelity Royal Compound—					
	Guarantee .....	10.00	11.00		4.00	16.80
13257	Manufacturer's sample.....	10.60	10.73		4.35	17.94
13356	Inspector's sample.....	9.59	10.09		3.83	16.11
13421	Inspector's sample.....	8.80	9.19		4.02	15.33
13781	Inspector's sample.....	10.05	11.21		3.86	16.69
13797	Inspector's sample.....	9.94	11.86		3.42	16.03
13835	Inspector's sample.....	9.62	11.39		3.80	16.10
	Fidelity Strawberry Special—					
	Guarantee .....	6.00	7.00	2.47	5.00	23.08
13250	Manufacturer's sample.....	6.48	6.58	2.75	5.01	24.79
13432	Inspector's sample.....	4.81	4.95	2.85	4.57	22.65
13514	Inspector's sample.....	5.48	6.01	1.91	5.68	21.04
13614	Inspector's sample.....	6.09	6.70	2.47	5.30	23.55
13754	Inspector's sample.....	6.15	6.76	2.29	4.53	21.98
13755	Inspector's sample.....	6.92	7.75	2.09	3.79	21.21
13775	Inspector's sample.....	5.58	6.39	2.10	4.40	20.38
13853	Inspector's sample.....	6.03	6.72	2.20	4.29	21.20
	Fidelity Sulphate of Potash—					
	Guarantee .....				48.00	57.60
13263	Manufacturer's sample.....				51.98	62.38
13511	Inspector's sample.....				45.98	55.18
	Fidelity Truck Grower—Guarantee..	8.00	9.00	2.47	8.00	29.08
13247	Manufacturer's sample.....	8.90	9.00	2.76	7.69	30.95

**Analyses of Commercial Fertilizers, Season of 1910-11.**

Laboratory Number	Manufacturer, Place of Business, and Brand.	Phosphoric Acid		Nitrogen—Per Cent	Potash—Per Cent	Laboratory Number
		Available—Per Cent.	Total—Per Cent			
<b>Fidelity Cotton Oil &amp; Fertilizer Co., Houston, Texas—Continued.</b>						
Fidelity Truck Grower—Continued.						
13424	Inspector's sample.....	7.59	8.32	2.36	6.45	137
13536	Inspector's sample.....	7.73	7.96	2.62	5.74	135
13794	Inspector's sample.....	8.58	8.89	2.11	6.53	133
<b>Gate City Fertilizer Co., Little Rock, Ark.—</b>						
13464	Red Ball Acid Phosphate—Guarantee	14.00	16.00	.....	.....	134
	Manufacturer's sample.....	13.48	14.76	.....	.....	134
	Red Ball Boll Maker—Guarantee....	10.00	12.00	.83	1.00	131
13465	Manufacturer's sample.....	9.79	10.90	.89	1.18	131
13863	Inspector's sample.....	10.50	13.21	.87	1.01	131
	Red Ball Cotton Grower—Guarantee.	9.00	11.00	1.65	2.00	13
13462	Manufacturer's sample.....	8.77	9.66	1.66	2.24	13
13905	Inspector's sample.....	10.10	11.37	1.31	1.77	13
	Red Ball Early Trucker—Guarantee.	8.00	10.00	2.47	4.00	13
13461	Manufacturer's sample.....	8.22	9.12	2.46	4.38	13
	Red Ball Orangeburg Standard—					
	Guarantee.....	9.00	11.00	2.00	.50	13
13466	Manufacturer's sample.....	8.64	9.67	2.00	.72	13
	Red Ball Standard Fertilizer—					
	Guarantee.....	10.00	12.00	1.65	1.00	13
13463	Manufacturer's sample.....	9.66	10.86	1.80	1.36	13
13762	Inspector's sample.....	9.83	11.18	1.78	1.37	13
<b>German Kali Works, Baltimore, Md.—</b>						
Kainit—Guarantee.....						
13489	Manufacturer's sample.....	.....	.....	.....	12.00	14
	Muriate of Potash—Guarantee.....	.....	.....	.....	13.06	15
13487	Manufacturer's sample.....	.....	.....	.....	50.00	60
	Sulphate of Potash—Guarantee.....	.....	.....	.....	52.75	63
13488	Manufacturer's sample.....	.....	.....	.....	48.00	57
	.....	.....	.....	.....	51.43	61
<b>Hilje Brothers, Weimar, Texas—</b>						
	Weimar Cotton Producer—Guarantee	10.25	11.00	2.75	.....	23
13494	Manufacturer's sample.....	10.09	10.49	3.44	.74	26
13653	Inspector's sample.....	10.18	10.67	3.51	.75	27
<b>Houston County Oil Mill and Manufacturing Co., Crockett, Texas—</b>						
	Crockett Acid Phosphate—Guarantee	14.00	15.00	.....	.....	15
13457	Manufacturer's sample.....	15.52	16.50	.....	.....	15
13727	Inspector's sample.....	14.30	14.92	.....	.....	17
13749	Inspector's sample.....	14.76	15.22	.....	.....	17
	Crockett Cereal Standard—Guarantee	8.00	9.00	2.00	2.50	30
13455	Manufacturer's sample.....	8.76	9.15	2.25	2.82	22
13750	Inspector's sample.....	8.69	9.07	2.13	2.49	21
	Crockett Cotton Standard—Guarantee	11.00	11.25	2.00	2.50	24
13452	Manufacturer's sample.....	11.15	11.68	2.18	3.86	26
13726	Inspector's sample.....	11.00	14.80	2.11	1.90	23
	Crockett Grower—Guarantee.....	5.00	5.50	4.00	3.00	25
13450	Manufacturer's sample.....	4.94	5.22	4.05	3.27	26
13724	Inspector's sample.....	4.88	5.15	4.56	2.67	27
	Crockett Imperial Fruiter—					
	Guarantee.....	9.00	9.50	1.30	2.50	19
13456	Manufacturer's sample.....	9.66	10.20	1.34	2.70	20
13751	Inspector's sample.....	10.57	14.18	1.19	2.34	20
	Crockett Planters' Triumph—					
	Guarantee.....	8.75	9.50	2.50	1.50	22
13453	Manufacturer's sample.....	9.41	9.90	2.67	1.81	24
	Crockett Phospho Special—Guarantee	11.75	12.75	1.30	.25	19
13454	Manufacturer's sample.....	12.32	12.95	1.65	.37	21
13725	Inspector's sample.....	12.10	14.40	1.61	.39	21
13748	Inspector's sample.....	12.82	13.42	1.11	.23	20
13829	Inspector's sample.....	12.06	12.40	1.43	.42	20
13830	Inspector's sample.....	12.16	12.62	1.61	.33	21
	Crockett Royal Compound—Guarantee	8.25	9.00	3.50	.80	24
13451	Manufacturer's sample.....	8.84	9.33	3.76	.88	26
13747	Inspector's sample.....	9.58	9.95	3.24	.56	25
13752	Inspector's sample.....	9.90	10.32	2.90	.52	24
13828	Inspector's sample.....	8.74	9.10	3.29	.78	24
	Crockett Vegetable Producer—					
	Guarantee.....	7.50	8.00	3.30	5.50	23
13449	Manufacturer's sample.....	8.07	8.50	3.35	5.91	30

**Analyses of Commercial Fertilizers, Season of 1910-11.**

Laboratory Number	Manufacturer, Place of Business, and Brand.	Phosphoric Acid		Nitrogen—Per Cent	Potash—Per Cent	Valuation
		Available—Per Cent.	Total—Per Cent			
<b>Houston Packing Co., Houston, Texas—</b>						
18719	Tankage—Guarantee .....		10.40	5.54		29.37
13502	Manufacturer's sample.....		14.08	<b>4.71</b>		<b>25.26</b>
13812	Inspector's sample.....		18.48	<b>4.99</b>		29.67
	Inspector's sample.....		14.38	5.64		32.93
<b>Huntsville Cotton Oil Co., Huntsville, Texas—</b>						
13458	Acid Phosphate—Guarantee.....	14.00	14.50			16.80
13532	Manufacturer's sample.....	14.88	16.01			17.86
13673	Inspector's sample.....	14.49	14.92			17.39
	Inspector's sample.....	15.02	15.42			18.02
13459	Huntsville High Grade—Guarantee..	10.00	11.00	2.50	1.80	24.16
13533	Manufacturer's sample.....	10.19	11.14	2.64	1.99	25.18
13534	Inspector's sample.....	10.88	11.27	2.50	1.97	25.42
13672	Inspector's sample.....	10.51	10.87	2.64	2.03	25.61
	Inspector's sample.....	9.95	10.46	2.66	1.75	24.68
<b>Jacksonville Cotton Oil Co., Jacksonville, Texas—</b>						
13496	Acid Phosphate—Guarantee.....	14.00	14.50			16.80
	Manufacturer's sample.....	15.31	15.57			18.37
13495	G. & H. Tomato Special—Guarantee.	9.41	9.86	3.28	.49	25.00
13855	Manufacturer's sample.....	9.41	9.86	3.28	.49	25.00
	Inspector's sample.....	10.10	10.62	2.91	.45	24.42
13591	Legal Tender for Cotton and Corn—	9.75	10.25	2.00	1.60	21.62
13854	Guarantee .....	10.05	10.32	2.04	1.74	22.31
	Inspector's sample.....	10.01	10.40	1.86	1.80	21.61
<b>Longview Cotton Oil Co., Longview, Texas—</b>						
13538	Acid Phosphate—Guarantee.....	14.00	14.50			16.80
13643	Manufacturer's sample.....	14.99	15.34			17.59
	Inspector's sample.....	15.46	15.84			18.55
13537	Longview Cotton and Corn Grower—	9.00	9.50	2.50	2.00	23.20
13642	Guarantee .....	10.06	10.59	2.70	1.71	24.92
13876	Inspector's sample.....	10.20	10.68	2.58	1.85	24.77
13877	Inspector's sample.....	10.52	11.07	2.43	2.06	24.81
	Inspector's sample.....	11.33	11.99	2.42	2.33	26.08
<b>John Marbach, New Braunfels, Texas—</b>						
13240	Compost of Bat Guano—Guarantee..	4.00	6.75	5.50	1.50	28.60
13811	Manufacturer's sample.....	4.72	8.14	6.02	2.06	32.21
	Inspector's sample.....	3.89	6.21	4.53	.96	23.95
13241	Crude Bat Guano—Guarantee .....	2.42	2.56	10.75	1.00	47.10
	Manufacturer's sample.....	2.42	2.56	11.72	1.11	51.11
<b>Marshall Fertilizer Factory, Marshall, Texas—</b>						
13540	Marshall Acid Phosphate—Guarantee	16.00	18.00			19.20
13874	Manufacturer's sample.....	16.28	17.25			19.54
	Inspector's sample.....	14.66	18.60			17.59
13541	Marshall Corn and Cotton Special—	10.00	11.00	1.65	1.50	20.49
13634	Guarantee .....	10.63	11.07	1.81	2.49	22.99
13875	Inspector's sample.....	11.38	11.82	1.81	2.20	23.64
	Inspector's sample.....	9.98	12.46	1.62	1.95	20.80
13569	Marshall Vegetable Grower—	7.00	8.00	2.47	4.00	23.08
	Guarantee .....	7.38	7.77	2.98	4.45	26.12
	Manufacturer's sample.....					
<b>Meridian Fertilizer Factory, Shreveport, La.—</b>						
13319	Caddo Cotton—Guarantee .....	9.00	11.00	1.85	1.00	19.40
13517	Manufacturer's sample.....	10.64	11.00	2.07	1.36	22.68
13519	Inspector's sample.....	9.31	9.52	1.97	1.69	21.08
13605	Inspector's sample.....	8.63	9.77	2.14	1.65	20.90
13662	Inspector's sample.....	10.10	10.30	1.74	1.35	20.70
13897	Inspector's sample.....	9.97	10.30	1.91	1.36	21.23
	Inspector's sample.....	9.03	9.65	1.84	1.39	19.87
13327	Caddo Vegetable—Guarantee.....	8.00	9.00	3.30	4.00	27.60
	Manufacturer's sample.....	9.67	9.90	3.52	4.32	30.86

**Analyses of Commercial Fertilizers, Season of 1910-11.**

Laboratory Number	Manufacturer, Place of Business, and Brand.	Phosphoric Acid		Nitrogen—Per Cent	Potash—Per Cent	Valuation	Laboratory Number
		Available—Per Cent.	Total—Per Cent				
	<b>Meridian Fertilizer Factory, Shreveport, La.—continued.</b>						
	Corn Grower—Guarantee.....	6.00	7.00	2.88	1.00	19.80	
13320	Manufacturer's sample.....	7.83	8.03	3.32	1.33	24.30	
13561	Inspector's sample.....	8.09	8.27	3.12	1.29	23.70	
13606	Inspector's sample.....	6.06	6.80	3.05	2.32	23.40	13
13610	Inspector's sample.....	5.83	6.03	2.93	1.23	20.20	13
13896	Inspector's sample.....	6.78	7.36	3.02	1.47	21.40	13
	<b>Meridian Blood and Bone—Guarantee</b>	10.00	12.00	1.65	1.00	19.60	
13429	Manufacturer's sample.....	9.69	11.18	1.76	1.45	20.40	13
13522	Inspector's sample.....	9.85	10.07	1.45	1.22	19.00	13
13526	Inspector's sample.....	10.29	10.52	1.48	1.15	19.80	13
13636	Inspector's sample.....	10.53	10.82	1.91	1.11	21.40	13
18732	Inspector's sample.....	10.83	11.71	1.75	1.32	21.30	13
13767	Inspector's sample.....	11.69	12.18	1.57	1.26	21.20	13
13824	Inspector's sample.....	11.04	11.82	1.45	1.36	20.40	13
	<b>Meridian Bone and Potash—Guarantee</b>	12.00	14.00	.....	2.00	16.30	
13328	Manufacturer's sample.....	12.09	12.69	.....	2.08	17.00	1
13787	Inspector's sample.....	10.63	13.25	.....	2.10	15.30	1
13861	Inspector's sample.....	10.58	13.42	.....	2.24	15.30	1
	<b>Meridian Cane Special No. 1—Guarantee</b>	4.00	5.00	5.35	.....	25.20	
13612	Manufacturer's sample.....	5.79	6.32	5.22	.....	27.30	
	<b>Meridian German Kainit—Guarantee</b>	.....	.....	.....	12.00	14.40	
13332	Manufacturer's sample.....	.....	.....	.....	12.50	15.00	
13663	Inspector's sample.....	.....	.....	.....	13.55	16.20	
13895	Inspector's sample.....	.....	.....	.....	12.17	14.40	
	<b>Meridian Ham Bone Guano—Guarantee</b>	10.00	12.00	1.65	1.00	19.80	
13430	Manufacturer's sample.....	10.12	11.54	1.75	1.48	20.30	
	<b>Meridian Home Mixture—Guarantee</b>	10.00	12.00	1.65	1.00	19.80	
13431	Manufacturer's sample.....	10.33	10.45	2.09	1.93	23.08	
13521	Inspector's sample.....	10.10	10.30	1.74	1.74	21.17	
13525	Inspector's sample.....	10.33	10.52	1.55	1.82	20.78	
13572	Inspector's sample.....	10.51	10.70	1.76	1.31	21.22	
13578	Inspector's sample.....	10.95	11.20	1.70	1.29	21.49	
13604	Inspector's sample.....	9.83	10.08	1.68	1.32	20.10	
13611	Inspector's sample.....	11.00	11.35	1.81	1.15	21.82	
13745	Inspector's sample.....	10.20	10.52	1.75	1.37	20.38	
13746	Inspector's sample.....	10.96	11.25	1.73	1.24	21.58	
13823	Inspector's sample.....	10.67	10.95	1.84	1.40	21.84	
	<b>Meridian Onion Special No. 1—Guarantee</b>	7.00	8.00	3.70	5.00	29.20	
13324	Manufacturer's sample.....	8.75	9.00	3.77	6.01	32.71	
13402	Inspector's sample.....	6.90	7.84	3.50	5.65	29.08	
13403	Inspector's sample.....	7.77	8.57	3.45	6.39	30.60	
	<b>Meridian Onion Special No. 2—Guarantee</b>	5.00	6.00	5.00	5.00	32.00	
13325	Manufacturer's sample.....	6.94	7.13	5.01	6.48	36.15	
13398	Inspector's sample.....	5.14	5.25	5.02	5.91	33.34	
	<b>Meridian Potato Special—Guarantee</b>	8.00	9.00	3.30	2.00	25.20	
13323	Manufacturer's sample.....	9.26	9.54	3.42	2.69	28.01	
13518	Inspector's sample.....	8.93	9.20	3.03	2.77	26.16	
13520	Inspector's sample.....	8.79	9.20	3.06	2.87	25.63	
13573	Inspector's sample.....	6.79	6.97	3.43	2.38	24.73	
13697	Inspector's sample.....	9.75	10.00	2.78	2.03	25.26	
13737	Inspector's sample.....	8.52	8.69	3.19	2.47	25.94	
13802	Inspector's sample.....	8.03	8.21	3.38	2.64	26.33	
	<b>Meridian Potash Compound—Guarantee</b>	10.00	12.00	.....	4.00	16.80	
13329	Manufacturer's sample.....	11.65	12.15	.....	4.27	19.10	
13788	Inspector's sample.....	5.92	10.88	.....	4.04	11.95	
13860	Inspector's sample.....	6.26	11.98	.....	3.75	12.01	
	<b>Meridian Soluble Guano—Guarantee</b>	10.00	12.00	1.65	1.50	20.40	
13433	Manufacturer's sample.....	9.96	10.18	2.16	2.05	23.05	
13609	Inspector's sample.....	10.23	10.52	1.72	1.84	21.36	
13734	Inspector's sample.....	10.67	11.05	1.69	1.78	21.70	
13891	Inspector's sample.....	10.12	10.89	1.81	1.48	21.16	
	<b>Meridian Southern Acid Phosphate—Guarantee</b>	14.00	15.00	.....	.....	16.80	
13330	Manufacturer's sample.....	15.02	15.72	.....	.....	18.02	
13527	Inspector's sample.....	14.81	15.02	.....	.....	17.77	
13577	Inspector's sample.....	14.60	14.77	.....	.....	17.52	
13735	Inspector's sample.....	13.97	14.37	.....	.....	16.76	

Analyses of Commercial Fertilizers, Season of 1910-11.

Laboratory Number	Manufacturer, Place of Business, and Brand.	Phosphoric Acid		Nitrogen—Per Cent	Potash—Per Cent	Valuation
		Available—Per Cent.	Total—Per Cent			
<b>Meridian Fertilizer Factory, Shreveport, La.—continued.</b>						
Meridian Southern Acid Phosphate—Continued.						
3765	Inspector's sample.....	14.92	15.41	.....	.....	17.90
3804	Inspector's sample.....	15.09	15.61	.....	.....	18.11
3850	Inspector's sample.....	14.87	15.35	.....	.....	17.84
Meridian Tomato Special—Guarantee						
3322	Manufacturer's sample.....	11.07	11.43	2.99	1.00	23.08
3562	Inspector's sample.....	10.46	10.70	2.51	1.56	24.46
3574	Inspector's sample.....	10.64	10.87	<b>2.26</b>	1.24	23.30
3576	Inspector's sample.....	<b>9.73</b>	9.91	2.81	1.80	25.08
3620	Inspector's sample.....	<b>9.72</b>	10.00	2.60	1.34	23.67
3718	Inspector's sample.....	10.62	10.87	2.40	1.39	24.01
3849	Inspector's sample.....	11.23	10.92	<b>2.33</b>	1.31	23.92
Meridian Truckers' Special—						
Guarantee.....						
3335	Manufacturer's sample.....	10.79	11.05	1.93	2.00	19.80
3523	Inspector's sample.....	<b>8.22</b>	8.70	2.05	2.49	21.05
3524	Inspector's sample.....	8.95	9.32	1.74	2.24	20.39
3563	Inspector's sample.....	9.93	10.07	1.75	2.49	21.91
3848	Inspector's sample.....	9.98	10.50	1.70	2.20	21.42
Meridian Vegetable Grower—						
Guarantee.....						
3321	Manufacturer's sample.....	9.42	9.70	2.81	5.79	29.49
3570	Inspector's sample.....	<b>7.60</b>	7.79	2.38	5.59	<b>25.35</b>
3575	Inspector's sample.....	8.61	8.85	<b>2.32</b>	<b>4.78</b>	<b>25.35</b>
3607	Inspector's sample.....	8.42	8.65	2.38	5.79	26.57
3637	Inspector's sample.....	8.64	8.90	<b>2.17</b>	5.02	<b>25.07</b>
3736	Inspector's sample.....	8.39	8.62	2.76	5.29	27.46
3768	Inspector's sample.....	8.67	9.00	<b>2.11</b>	5.08	<b>24.94</b>
3851	Inspector's sample.....	<b>7.80</b>	8.05	2.41	6.35	26.62
Muriate of Potash—guarantee.....						
3333	Manufacturer's sample.....	.....	.....	.....	50.00	60.00
3692	Inspector's sample.....	.....	.....	.....	<b>48.22</b>	<b>57.86</b>
Nitrate of Soda—Guarantee.....						
3334	Manufacturer's sample.....	.....	.....	15.00	.....	60.00
3401	Inspector's sample.....	.....	.....	15.08	.....	60.32
Special Formula—Guarantee.....						
3343	Manufacturer's sample.....	4.00	5.00	6.58	4.00	35.92
3399	Inspector's sample.....	5.42	5.60	6.98	5.46	40.97
3400	Inspector's sample.....	4.19	4.34	7.38	4.36	39.88
3404	Inspector's sample.....	4.59	4.71	7.19	4.37	39.51
Sulphate of Potash—Guarantee.....						
3796	Manufacturer's sample.....	.....	.....	.....	48.50	58.20
3893	Inspector's sample.....	.....	.....	.....	49.40	59.28
Star—Guarantee.....						
3432	Manufacturer's sample.....	10.00	12.00	1.65	1.00	19.80
3565	Inspector's sample.....	<b>9.87</b>	10.12	2.12	1.96	22.67
3567	Inspector's sample.....	<b>9.56</b>	9.81	1.60	1.37	<b>19.51</b>
3698	Inspector's sample.....	10.79	10.97	1.75	1.23	21.43
3892	Inspector's sample.....	10.61	10.95	1.60	1.30	20.69
Texas Special—Guarantee.....						
3326	Manufacturer's sample.....	10.61	11.27	1.64	1.36	20.92
3564	Inspector's sample.....	10.00	12.00	2.72	.25	23.18
3566	Inspector's sample.....	11.72	12.13	2.90	.94	26.79
3716	Inspector's sample.....	9.99	10.22	2.69	.33	23.15
3733	Inspector's sample.....	10.21	10.40	2.72	.39	23.60
3890	Inspector's sample.....	10.19	10.49	<b>2.58</b>	.52	23.17
Union Special Acid Phosphate—						
3331	Guarantee.....	16.00	17.00	.....	.....	19.20
3571	Manufacturer's sample.....	16.91	17.60	.....	.....	20.29
3603	Inspector's sample.....	<b>15.61</b>	16.18	.....	.....	<b>18.73</b>
3696	Inspector's sample.....	17.18	17.88	.....	.....	19.20
3715	Inspector's sample.....	17.32	18.09	.....	.....	20.78
3731	Inspector's sample.....	16.65	17.32	.....	.....	19.98
3894	Inspector's sample.....	17.63	18.06	.....	.....	21.15
Weevil Beater Guano—Guarantee.....						
3428	Manufacturer's sample.....	10.00	12.00	1.65	1.00	19.80
3560	Inspector's sample.....	10.06	11.25	1.85	1.48	21.25
3577	Inspector's sample.....	10.02	10.27	1.70	1.17	20.22
3766	Inspector's sample.....	10.92	11.15	1.68	1.31	21.39
3825	Inspector's sample.....	10.31	10.66	1.73	1.40	20.97
3825	Inspector's sample.....	11.14	11.80	1.59	1.31	21.30

**Analyses of Commercial Fertilizers, Season of 1910-11.**

Laboratory Number	Manufacturer, Place of Business, and Brand.	Phosphoric Acid		Nitrogen-Per Cent	Potash-Per Cent	Yeaston
		Available-Per Cent.	Total-Per Cent			
	<b>V. F. Monkress, Jacksonville, Texas—</b>					
	Cherokee Acid Phosphate—Guarantee	14.00	14.50	.....	.....	16.80
13493	Manufacturer's sample.....	15.32	15.92	.....	.....	18.31
13535	Inspector's sample.....	15.00	15.88	.....	.....	18.00
13856	Inspector's sample.....	13.80	15.16	.....	.....	16.56
	<b>New Orleans Acid &amp; Fertilizer Co., New Orleans, La.—</b>					
	Ammoniated Raw Bone Superphosphate and Potash—Guarantee...	9.00	11.00	1.65	1.50	19.20
13297	Manufacturer's sample.....	9.88	10.88	2.21	2.13	23.25
13674	Inspector's sample.....	7.81	8.32	1.44	1.49	16.93
13806	Inspector's sample.....	8.07	8.58	1.91	1.72	19.33
13884	Inspector's sample.....	11.14	11.50	1.57	1.39	21.32
	Black Diamond Acid Phosphate—					
	Guarantee .....	12.00	14.00	.....	.....	14.40
13288	Manufacturer's sample.....	14.47	15.31	.....	.....	17.36
13676	Inspector's sample.....	11.99	12.24	.....	.....	14.33
	Blood, Bone and Potash—Guarantee.	9.00	11.00	1.65	1.50	19.20
13296	Manufacturer's sample.....	9.78	10.78	2.27	2.24	23.51
13801	Inspector's sample.....	8.62	9.16	2.15	1.90	21.22
	Bull Dog Acid Phosphate—					
	Guarantee .....	16.00	18.00	.....	.....	19.20
13291	Manufacturer's sample.....	18.96	19.21	.....	.....	22.75
13543	Inspector's sample.....	18.69	18.87	.....	.....	22.43
13675	Inspector's sample.....	17.18	17.40	.....	.....	20.62
	Crescent City Acid Phosphate—					
	Guarantee .....	12.00	14.00	.....	.....	14.40
13289	Manufacturer's sample.....	14.74	15.09	.....	.....	17.69
	Dissolved Bone and Potash—					
	Guarantee .....	12.00	14.00	.....	2.00	16.80
13292	Manufacturer's sample.....	13.67	16.56	.....	3.52	20.62
	Dissolved Bone and Potash—					
	Guarantee .....	10.00	12.00	.....	4.00	16.80
13613	Manufacturer's sample.....	13.99	14.21	.....	5.20	23.03
	Economizer—Guarantee .....	10.00	12.00	1.65	2.00	21.00
13300	Manufacturer's sample.....	12.24	12.52	2.16	2.65	26.51
13798	Inspector's sample.....	10.20	10.47	1.97	2.39	22.95
13882	Inspector's sample.....	12.53	12.98	1.61	1.74	23.77
	El Salvador Sugar Cane Grower No. 675—Guarantee .....	7.00	9.00	5.00	5.00	34.40
13307	Manufacturer's sample.....	8.06	8.39	5.75	6.28	40.21
	Farmers' Cornucopia—Guarantee....	12.00	14.00	2.47	2.00	26.63
13301	Manufacturer's sample.....	13.42	13.56	3.19	2.77	32.13
13885	Inspector's sample.....	13.94	14.40	2.27	1.86	28.04
	Goldsmith's Improved Mixture—					
	Guarantee .....	9.00	11.00	1.65	1.50	19.20
13299	Manufacturer's sample.....	10.94	11.28	2.17	2.10	24.33
13679	Inspector's sample.....	9.87	10.27	2.05	1.99	22.43
13883	Inspector's sample.....	11.95	12.21	1.89	1.61	23.83
	Honduras Rice Grower—Guarantee..	12.00	14.00	.....	4.00	19.20
13295	Manufacturer's sample.....	13.78	15.58	.....	5.57	23.22
	Kainit—Guarantee .....	.....	.....	.....	12.00	14.40
13311	Manufacturer's sample.....	.....	.....	.....	12.99	15.59
	Louisiana Plant Cane Grower—					
	Guarantee .....	6.00	8.00	3.30	.....	20.40
13304	Manufacturer's sample.....	7.99	8.28	3.68	.....	24.31
	Louisiana Rice Grower—Guarantee..	10.00	12.00	.....	2.00	14.40
13814	Manufacturer's sample.....	13.26	14.16	.....	3.12	19.65
	Louisiana Stubble Cane Grower—					
	Guarantee .....	4.00	6.00	4.94	.....	24.50
13305	Manufacturer's sample.....	5.80	6.08	5.40	.....	28.50
	Meal Ammoniated Superphosphate and Potash—Guarantee .....	9.00	11.00	1.65	1.50	19.20
13298	Manufacturer's sample.....	11.00	11.34	2.22	2.10	24.60
13678	Inspector's sample.....	10.70	11.36	1.75	1.50	21.60
	New Orleans Acid Phosphate—					
	Guarantee .....	14.00	16.00	.....	.....	16.80
13290	Manufacturer's sample.....	17.00	17.33	.....	.....	20.40
	Nitrate of Soda—Guarantee.....	.....	.....	15.00	.....	60.00
13309	Manufacturer's sample.....	.....	.....	15.06	.....	60.20
13702	Inspector's sample.....	.....	.....	15.62	.....	62.40
	Special Sugar Cane Grower No. 67—					
	Guarantee .....	7.00	9.00	5.00	.....	28.40
13306	Manufacturer's sample.....	8.47	8.75	5.47	.....	32.00



**Analyses of Commercial Fertilizers, Season of 1910-11.**

Laboratory Number	Manufacturer, Place of Business, and Brand.	Phosphoric Acid		Nitrogen—Per Cent	Potash—Per Cent	Valuation
		Available—Per Cent.	Total—Per Cent			
<b>New Orleans Acid &amp; Fertilizer Co., New Orleans, La.—Continued.</b>						
	Sulphate of Ammonia—Guarantee.....			20.00		80.00
3303	Manufacturer's sample.....			20.24		80.96
	Sulphate of Potash—Guarantee.....				50.00	60.00
3310	Manufacturer's sample.....				50.12	60.14
	Texas Onion Grower—Guarantee....	6.00	8.00	3.30	6.00	27.60
3303	Manufacturer's sample.....	7.88	8.21	4.28	7.61	35.71
	Vegetable Grower—Guarantee.....	6.00	8.00	2.47	4.00	21.88
3302	Manufacturer's sample.....	7.37	7.60	3.20	4.81	27.41
3677	Inspector's sample.....	8.34	8.84	2.70	<b>3.10</b>	24.53
<b>Nitrate Agencies Co., New Orleans, La.—</b>						
	Acid Phosphate—Guarantee.....	16.00	17.00			19.20
3587	Manufacturer's sample.....	16.57	17.45			19.88
	Basic Slag—Guarantee.....	17.00	19.00			20.40
	Kainit—Guarantee.....				12.00	14.40
3590	Manufacturer's sample.....				13.28	15.94
	Muriate of Potash—Guarantee.....				50.00	60.00
3588	Manufacturer's sample.....				52.82	63.38
	Nitrate of Soda—Guarantee.....			15.25		61.00
3405	Manufacturer's sample.....			15.60		62.40
	Sulphate of Potash—Guarantee.....				48.00	57.60
3589	Manufacturer's sample.....				48.88	58.66
<b>Planters' Fertilizer &amp; Chemical Co., New Orleans, La.—</b>						
	Planters' Acid Phosphate—Guarantee	14.00	16.00			16.80
3346	Manufacturer's sample.....	14.52	15.73			17.42
3585	Inspector's sample.....	14.36	15.90			17.23
3728	Inspector's sample.....	<b>13.58</b>	15.13			<b>16.30</b>
	Planters' Dissolved Bone and Potash—Guarantee.....	12.00	14.00		2.00	16.80
3347	Manufacturer's sample.....	13.34	14.50		2.08	18.51
3584	Inspector's sample.....	13.71	14.80		2.17	19.05
3873	Inspectors' sample.....	12.75	14.49		2.24	17.99
	Planters' Golden Mixture—Guarantee	9.50	11.50	1.65	1.50	19.80
3344	Manufacturer's sample.....	9.58	10.50	1.83	1.94	21.15
3664	Inspector's sample.....	<b>9.27</b>	10.95	1.88	1.72	20.70
	Planters' Raw Bone Superphosphate—Guarantee.....	9.50	11.50	1.65	1.50	19.80
3345	Manufacturer's sample.....	10.38	12.68	1.88	1.87	22.22
	Planters' Vegetable Grower—Guarantee.....	7.00	9.00	2.50	3.50	22.60
3348	Manufacturer's sample.....	<b>6.54</b>	7.22	2.44	<b>3.12</b>	<b>21.35</b>
3616	Inspector's sample.....	7.78	9.02	2.48	3.82	23.84
3665	Inspector's sample.....	8.14	9.02	2.42	3.46	23.60
<b>Rockdale Dil Co., Rockdale, Texas—</b>						
	Superior Brand Corn and Cotton—Guarantee.....	11.00	12.00	1.90	.30	21.16
3492	Manufacturer's sample.....	13.16	13.32	1.92	.36	23.90
3596	Inspector's sample.....	12.14	13.50	2.01	.54	23.26
3695	Inspector's sample.....	12.05	13.25	1.97	.35	22.76
	Superior Brand Special Fertilizer—Guarantee.....	7.50	8.00	1.80	3.30	20.16
3720	Manufacturer's sample.....	8.01	8.50	2.32	3.64	23.26
	Superior Brand Vegetable Fertilizer—Guarantee.....	8.50	9.50	3.50	.70	25.04
3491	Manufacturer's sample.....	10.12	10.32	3.57	.74	27.31
3597	Inspector's sample.....	9.19	9.73	4.10	.85	28.35
3694	Inspector's sample.....	10.10	10.25	3.85	.76	28.43
<b>Standard Guano &amp; Chemical Manufacturing Co., New Orleans, La.—</b>						
	Acid Phosphate—Guarantee.....	16.00	17.00			19.20
3271	Manufacturer's sample.....	17.44	18.10			20.93
3817	Farmer's sample.....	18.01	18.23			21.61
3837	Farmer's sample.....	17.48	18.62			20.98
3305	Inspector's sample.....	16.88	18.07			20.26
	Acid Phosphate and Potash—Guarantee.....	10.00	11.25		2.00	14.40
3822	Manufacturer's sample.....	12.29	12.44		1.91	17.04
	Boll Weevil Knocker—Guarantee....	10.00	11.00	1.65		18.60
3286	Manufacturer's sample.....	12.46	12.90	2.40		24.55

**Analyses of Commercial Fertilizers, Season of 1910-11.**

Laboratory Number	Manufacturer, Place of Business, and Brand.	Phosphoric Acid		Nitrogen—Per Cent	Potash—Per Cent	Laboratory
		Available—Per Cent.	Total—Per Cent			
	<b>Standard Guano &amp; Chemical Manufacturing Co., New Orleans, La.—Continued.</b>					
	Dissolved Bone and Potash—Guarantee	10.00	10.50	.....	4.00	14.8
13281	Manufacturer's sample	12.53	13.51	.....	4.28	20.8
	Farmers' Choice—Guarantee	9.50	11.00	1.65	1.50	19.8
13272	Manufacturer's sample	11.07	11.78	1.80	1.91	22.7
13641	Inspector's sample	10.09	10.40	1.92	2.04	22.8
13799	Inspector's sample	10.57	10.83	2.31	2.08	24.8
	Ground Bone and Potash—Guarantee	.....	15.00	2.75	3.00	26.8
13283	Manufacturer's sample	.....	16.67	3.02	3.07	28.8
	Stern's High Grade Acid Phosphate and Potash—Guarantee	12.00	14.00	.....	2.00	18.8
13285	Manufacturer's sample	13.01	13.80	.....	2.15	18.8
	Kainit—Guarantee	.....	.....	.....	12.00	14.8
13276	Manufacturer's sample	.....	.....	.....	13.42	16.8
	Mississippi Home Guano—Guarantee	9.50	11.00	1.65	1.50	19.8
13279	Manufacturer's sample	11.73	12.42	1.96	2.07	24.8
13800	Inspector's sample	11.54	11.72	1.93	1.90	23.8
	Muriate of Potash—Guarantee	.....	.....	.....	45.00	54.8
13275	Manufacturer's sample	.....	.....	.....	49.76	59.7
	Nitrate of Soda—Guarantee	.....	.....	15.00	.....	60.8
13287	Manufacturer's sample	.....	.....	15.62	.....	62.8
13391	Inspector's sample	.....	.....	15.70	.....	62.8
13413	Inspector's sample	.....	.....	15.38	.....	61.8
13497	Inspector's sample	.....	.....	14.83	.....	59.8
13785	Inspector's sample	.....	.....	15.90	.....	62.8
	Pure Raw Ground Bone—Guarantee	.....	18.50	2.50	.....	24.8
13268	Manufacturer's sample	.....	18.35	3.58	.....	28.8
13410	Inspector's sample	.....	16.57	3.36	.....	26.8
	Standard Blood, Bone and Meat Fertilizer—Guarantee	9.50	11.50	1.65	1.50	19.8
13278	Manufacturer's sample	9.61	10.25	2.80	2.35	25.8
	Standard High Grade Sugar Fertilizer—Guarantee	10.00	11.50	2.50	2.00	24.8
13277	Manufacturer's sample	11.47	12.16	3.37	1.67	29.8
13867	Inspector's sample	10.85	11.07	2.70	2.17	26.8
	Standard High Grade Truck Grower—Guarantee	8.00	9.50	3.50	7.00	32.8
13284	Manufacturer's sample	9.80	10.31	4.23	6.72	36.7
13392	Inspector's sample	7.05	8.42	3.94	8.13	33.8
	Standard Raw Bone Rice Fertilizer—Guarantee	9.50	11.50	1.65	1.50	19.8
13280	Manufacturer's sample	10.89	11.48	2.21	1.72	23.7
	Standard Vegetable Fertilizer—Guarantee	6.00	7.25	2.50	5.00	23.8
13273	Manufacturer's sample	7.24	7.88	3.15	5.03	27.3
15412	Inspector's sample	7.20	7.54	2.56	5.77	25.8
13499	Inspector's sample	7.90	8.47	2.42	5.06	25.2
13783	Inspector's sample	7.15	7.91	2.06	6.04	24.0
	Stern's Acid Phosphate—Guarantee	14.00	16.00	.....	.....	16.8
13270	Manufacturer's sample	16.26	16.92	.....	.....	19.6
13414	Inspector's sample	15.08	15.28	.....	.....	18.0
13498	Inspector's sample	16.42	16.77	.....	.....	19.7
13545	Inspector's sample	16.13	16.79	.....	.....	19.2
13784	Inspector's sample	17.94	18.37	.....	.....	21.5
13831	Inspector's sample	15.91	16.79	.....	.....	19.8
	Stern's Ammoniated Raw Bone Superphosphate—Guarantee	9.50	11.50	1.65	1.50	19.8
13269	Manufacturer's sample	9.85	10.53	2.62	2.11	24.8
13925	Farmer's sample	9.31	10.66	1.21	2.35	18.8
12411	Inspector's sample	9.33	9.95	2.46	1.71	23.9
13500	Inspector's sample	10.06	11.87	2.42	1.83	23.5
13544	Inspector's sample	9.95	11.20	2.28	1.74	23.15
13640	Inspector's sample	9.71	10.87	2.29	1.84	23.02
13652	Inspector's sample	10.84	12.05	2.00	1.64	22.88
13803	Inspector's sample	9.93	10.92	1.80	1.66	21.11
	Sulphate of Potash—Guarantee	.....	.....	.....	47.00	56.40
13274	Manufacturer's sample	.....	.....	.....	48.72	58.46
13836	Farmer's sample	.....	.....	.....	49.02	58.82
13786	Inspector's sample	.....	.....	.....	49.50	59.40

**Analyses of Commercial Fertilizers, Season of 1910-11.**

Number	Manufacturer, Place of Business, and Brand.	Phosphoric Acid		Nitrogen—Per Cent	Potash—Per Cent	Valuation
		Available—Per Cent.	Total—Per Cent			
<b>O. E. Stephens, Llano, Texas—</b>						
	Bat Guano—Guarantee.....	4.40	4.60	8.80	.....	40.48
	Manufacturer's sample.....	4.52	4.65	9.06	.....	41.66
<b>Swift &amp; Co., Chicago, Ill.—</b>						
	Swift's Champion Vegetable and Tobacco Grower—Guarantee.....	8.00	10.00	3.29	3.00	26.36
	Manufacturer's sample.....	7.48	17.36	3.34	3.73	26.82
	Inspector's sample.....	7.77	12.13	3.29	3.12	25.50
	Inspector's sample.....	7.19	13.33	3.39	2.43	25.11
	Inspector's sample.....	6.75	12.67	3.09	2.97	23.86
	Swift's East Texas Trucker—Guarantee.....	8.00	10.00	2.46	3.00	23.04
	Manufacturer's sample.....	8.94	18.43	2.71	3.61	23.90
	Inspector's sample.....	5.59	11.77	3.08	3.31	23.00
	Inspector's sample.....	7.99	11.92	2.48	3.22	23.37
	Inspector's sample.....	9.29	13.30	1.52	3.32	21.21
	Inspector's sample.....	7.42	13.66	2.45	3.07	22.38
	Inspector's sample.....	7.09	11.02	2.88	2.28	22.77
	Inspector's sample.....	7.76	11.87	2.53	2.62	22.48
	Swift's High Grade Phosphate and Potash—Guarantee.....	10.00	11.00	.....	4.00	16.80
	Manufacturer's sample.....	11.69	12.59	.....	3.97	18.79
	Inspector's sample.....	9.84	11.90	.....	3.82	16.39
	Inspector's sample.....	10.10	11.30	.....	3.94	16.85
	Inspector's sample.....	9.85	11.00	.....	3.50	16.02
	Swift's Pure Bone Meal—Guarantee.....	.....	25.00	2.50	.....	29.50
	Manufacturer's sample.....	.....	27.75	1.89	.....	29.38
	Inspector's sample.....	.....	25.22	1.74	.....	26.79
	Inspector's sample.....	.....	22.43	3.77	.....	32.27
	Swift's Special Vegetable Fertilizer—Guarantee.....	8.00	10.00	2.05	6.00	25.00
	Manufacturer's sample.....	9.17	16.90	2.28	7.32	28.90
	Inspector's sample.....	6.48	11.97	2.28	6.35	24.52
	Inspector's sample.....	10.31	12.78	2.40	4.35	26.98
	Inspector's sample.....	7.75	12.34	2.22	4.23	23.26
	Swift's Superphosphate—Guarantee.....	8.00	10.00	1.65	2.00	18.60
	Manufacturer's sample.....	8.62	15.70	1.95	2.09	20.65
	Inspector's sample.....	7.59	16.71	2.46	1.65	20.93
	Inspector's sample.....	9.11	12.32	1.90	2.47	21.49
	Inspector's sample.....	8.29	12.17	1.48	2.10	18.39
	Inspector's sample.....	7.14	11.38	1.97	1.97	18.81
	Inspector's sample.....	6.70	11.54	1.73	1.98	17.34
	Inspector's sample.....	6.95	12.15	1.93	2.23	18.74
	Swift's Tankage Formula—Guarantee.....	.....	6.87	7.41	.....	33.65
	Manufacturer's sample.....	.....	7.75	7.19	.....	33.52
	Inspector's sample.....	.....	7.32	7.48	.....	33.89
<b>Trinity County Lumber Co., Groveton, Texas—</b>						
	Acid Phosphate, 16 per cent—Guarantee.....	16.00	16.50	.....	.....	19.20
	Manufacturer's sample.....	18.10	18.49	.....	.....	21.72
<b>Tuscarora Fertilizer Co., New Orleans, La.—</b>						
	Bone and Potash—Guarantee.....	10.00	10.50	.....	2.00	14.40
	Manufacturer's sample.....	11.17	11.34	.....	2.42	16.30
	High Grade Dissolved Bone—Guarantee.....	14.00	14.50	.....	.....	16.80
	Manufacturer's sample.....	14.37	14.81	.....	.....	17.24
	Plantation Trucker—Guarantee.....	10.00	10.50	1.65	6.00	25.80
	Manufacturer's sample.....	9.95	10.64	1.83	6.84	27.47
	Inspector's sample.....	10.47	11.90	1.80	5.41	26.25
	Inspector's sample.....	10.52	11.80	1.83	5.37	26.38
	Standard Cotton Special—Guarantee.....	8.00	8.50	1.65	2.00	18.50
	Manufacturer's sample.....	7.61	9.49	1.94	2.37	19.73
	Inspector's sample.....	7.59	9.70	2.10	2.61	20.64
	Inspector's sample.....	7.37	9.51	1.98	2.55	19.82
	Inspector's sample.....	7.21	9.85	1.99	2.58	19.71
	Tuscarora Monarch—Guarantee.....	9.00	9.50	2.47	3.00	24.28
	Manufacturer's sample.....	9.83	11.25	2.84	3.42	27.26
	Vegetable Special—Guarantee.....	8.00	8.50	3.29	7.00	31.16
	Manufacturer's sample.....	8.96	9.21	3.72	7.65	34.81

**Analyses of Commercial Fertilizers, Season of 1910-11.**

Laboratory Number	Manufacturer, Place of Business, and Brand.	Phosphoric Acid		Nitrogen—Per Cent	Potash—Per Cent	Valuation
		Available—Per Cent.	Total—Per Cent			
<b>United Oil Mills, Hope, Ark.—</b>						
	Our Cotton Grower—Guarantee.....	9.00	10.00	1.65	2.00	19.80
13808	Manufacturer's sample.....	11.29	11.63	1.48	2.06	21.94
13903	Inspector's sample.....	10.44	10.75	1.90	1.89	22.40
	Our Early Fruiter—Guarantee.....	10.00	11.00	.....	4.00	16.80
13807	Manufacturer's sample.....	11.25	11.60	.....	2.93	17.02
13902	Inspector's sample.....	11.50	12.01	.....	2.54	16.86
<b>Virginia-Carolina Chemical Co., Shreveport, La.—</b>						
	Beef Blood and Bone—Guarantee....	10.00	12.00	1.65	1.00	19.80
13373	Manufacturer's sample.....	10.97	11.61	2.45	1.75	25.06
13558	Inspector's sample.....	10.57	11.42	2.00	1.28	22.22
	Georgia State Grange—Guarantee....	10.00	12.00	1.65	1.00	19.80
13375	Manufacturer's sample.....	9.42	9.89	1.82	2.84	21.42
13633	Inspector's sample.....	11.07	11.70	1.72	1.24	21.65
13708	Inspector's sample.....	11.21	11.82	1.73	1.88	22.62
13889	Inspector's sample.....	10.61	10.97	1.57	1.49	20.80
	German Kainit (Imported)—					
	Guarantee.....	.....	.....	.....	12.00	14.40
13387	Manufacturer's sample.....	.....	.....	.....	11.57	13.88
13667	Inspector's sample.....	.....	.....	.....	12.70	15.24
	Mobile Double Eagle Guano—					
	Guarantee.....	10.00	12.00	1.65	1.50	20.40
13371	Manufacturer's sample.....	11.50	12.02	2.27	2.74	26.17
13632	Inspector's sample.....	10.24	10.72	1.64	1.27	20.37
13644	Inspector's sample.....	10.66	11.10	1.86	2.40	23.11
13668	Inspector's sample.....	10.09	10.65	1.74	2.08	21.57
13686	Inspector's sample.....	10.96	11.55	1.61	1.63	21.55
13827	Inspector's sample.....	10.52	11.02	1.66	1.84	21.47
	Muriate of Potash—Guarantee.....	.....	.....	.....	48.00	57.60
13388	Manufacturer's sample.....	.....	.....	.....	49.36	59.23
	Nitrate of Soda—Guarantee.....	.....	.....	14.50	.....	58.00
13389	Manufacturer's sample.....	.....	.....	14.69	.....	58.76
	Royal Blood, Bone and Potash—					
	Guarantee.....	10.00	12.00	1.65	1.50	20.40
13374	Manufacturer's sample.....	11.12	12.12	2.29	1.72	24.56
13559	Inspector's sample.....	10.90	11.90	1.74	1.66	22.03
13771	Inspector's sample.....	11.38	12.28	1.69	2.04	22.87
	Royal Compound—Guarantee.....	10.00	12.00	.....	2.00	14.40
13382	Manufacturer's sample.....	12.18	12.95	.....	2.25	17.32
	Royal Cotton Boll Guano—					
	Guarantee.....	8.00	10.00	1.65	2.00	18.60
13377	Manufacturer's sample.....	8.97	9.72	2.36	2.72	23.48
13888	Inspector's sample.....	10.44	10.85	1.19	1.69	19.32
	Royal Fruit Grower—Guarantee....	8.00	10.00	2.47	5.00	25.48
13380	Manufacturer's sample.....	8.75	9.84	3.25	5.70	30.34
13556	Inspector's sample.....	8.51	10.00	2.27	4.18	24.31
	Royal High Grade Guano—Guarantee	10.00	12.00	1.65	1.50	20.40
13372	Manufacturer's sample.....	11.37	12.11	2.34	1.68	25.02
13557	Inspector's sample.....	10.11	11.70	2.25	2.40	24.01
13646	Inspector's sample.....	11.05	12.00	1.82	1.56	22.41
13772	Inspector's sample.....	10.88	11.28	1.49	1.22	20.48
13922	Inspector's sample.....	12.10	12.72	1.57	1.78	22.94
	Royal Potash Compound—Guarantee.	10.00	12.00	.....	4.00	16.80
13383	Manufacturer's sample.....	10.71	12.11	.....	3.97	17.61
	Royal Tomato Formula—Guarantee..	10.00	12.00	2.47	.....	21.88
13367	Manufacturer's sample.....	10.12	10.69	3.32	.....	25.42
	Royal Vegetable Fertilizer—					
	Guarantee.....	8.00	10.00	2.47	4.00	24.23
13379	Manufacturer's sample.....	8.14	9.07	3.41	4.43	28.73
13631	Inspector's sample.....	10.04	11.32	2.05	4.17	25.25
13744	Inspector's sample.....	10.15	10.21	1.67	4.19	23.89
13887	Inspector's sample.....	11.79	12.43	2.25	.76	24.08
	Scott's Gossypium Phospho—					
	Guarantee.....	10.00	12.00	1.65	1.50	20.40
13370	Manufacturer's sample.....	10.88	11.56	2.20	2.74	25.15
13598	Inspector's sample.....	9.69	10.01	2.09	2.39	22.86
13645	Inspector's sample.....	10.09	10.32	1.67	1.35	20.41
13669	Inspector's sample.....	8.75	9.13	3.11	2.59	26.05
13671	Inspector's sample.....	11.09	11.69	1.82	1.20	22.03
13826	Inspector's sample.....	10.73	11.26	1.57	1.30	20.72
13501	Inspector's sample.....	10.92	11.40	1.55	1.88	21.56
	Scott's Gossypium Phospho Special—					
	Guarantee.....	10.00	12.00	1.65	2.00	21.00

## Analyses of Commercial Fertilizers, Season of 1910-11.

Laboratory Number	Manufacturer, Place of Business, and Brand.	Phosphoric Acid		Nitrogen—Per Cent	Potash—Per Cent	Valuation
		Available—Per Cent.	Total—Per Cent			
<b>Virginia-Carolina Chemical Co., Shreveport, La.—Continued.</b>						
Scott's Gossypium Phospho Special—Continued.						
13369	Manufacturer's sample.....	11.03	11.72	1.99	2.21	23.85
13630	Inspector's sample.....	9.87	10.11	1.86	2.74	22.57
13709	Inspector's sample.....	11.17	11.95	1.72	1.99	22.67
13743	Inspector's sample.....	10.61	11.17	1.96	2.65	23.75
13871	Inspector's sample.....	10.54	11.16	<b>1.13</b>	<b>2.21</b>	<b>19.82</b>
Scott's High Grade Acid Phosphate—						
Guarantee.....						
13385	Manufacturer's sample.....	14.00	16.00	.....	.....	16.80
13648	Inspector's sample.....	13.87	14.73	.....	.....	<b>16.54</b>
13769	Inspector's sample.....	15.94	16.53	.....	.....	19.13
13920	Inspector's sample.....	15.10	16.09	.....	.....	18.12
	Inspector's sample.....	<b>13.74</b>	14.71	.....	.....	<b>16.49</b>
Scott's Potasso Phospho—Guarantee.						
13384	Manufacturer's sample.....	12.00	14.00	.....	2.00	16.80
13921	Inspector's sample.....	12.30	13.50	.....	2.83	18.16
	Inspector's sample.....	12.47	13.69	.....	2.84	18.37
Scott's State Standard Guano—						
Guarantee.....						
13376	Manufacturer's sample.....	8.00	10.00	1.65	2.00	18.60
13685	Inspector's sample.....	8.13	8.60	1.98	2.57	20.76
13666	Inspector's sample.....	10.01	10.51	2.15	1.94	22.94
13857	Inspector's sample.....	11.80	12.41	1.63	<b>1.03</b>	21.92
V. C. C. Co.'s Truck Grower—						
Guarantee.....						
13378	Manufacturer's sample.....	8.00	10.00	2.06	<b>6.00</b>	25.04
13647	Inspector's sample.....	9.41	10.08	2.72	<b>5.69</b>	29.00
13666	Inspector's sample.....	<b>7.62</b>	8.62	2.20	<b>5.06</b>	<b>24.01</b>
13870	Inspector's sample.....	11.88	12.13	<b>1.69</b>	<b>4.49</b>	26.41
13857	Inspector's sample.....	10.86	11.71	<b>1.45</b>	<b>4.27</b>	<b>23.95</b>
	Inspector's sample.....	12.31	12.80	<b>1.36</b>	<b>2.24</b>	<b>22.90</b>
V. C. High Grade Guano—Guarantee.						
13368	Manufacturer's sample.....	10.00	12.00	1.65	2.00	21.00
13770	Inspector's sample.....	10.52	11.47	2.31	2.28	24.60
	Inspector's sample.....	11.53	12.48	1.77	<b>1.72</b>	22.95
V. C. High Grade Top Dresser—						
Guarantee.....						
13790	Manufacturer's sample.....	4.00	6.00	6.18	2.50	32.52
13866	Inspector's sample.....	<b>3.80</b>	6.25	6.65	3.12	34.90
13555	Inspector's sample.....	10.00	12.00	2.47	1.50	23.68
13386	Inspector's sample.....	<b>9.17</b>	9.61	3.34	3.02	27.98
13886	Inspector's sample.....	<b>9.53</b>	10.09	<b>1.88</b>	1.57	<b>20.84</b>
V. C. Superphosphate—Guarantee.....						
13386	Manufacturer's sample.....	16.00	18.00	.....	.....	19.20
13886	Inspector's sample.....	17.35	18.86	.....	.....	20.82
	Inspector's sample.....	<b>15.51</b>	16.39	.....	.....	<b>18.61</b>
V. 3-C Fruit and Truck Special—						
Guarantee.....						
13381	Manufacturer's sample.....	6.00	8.00	3.30	8.00	30.00
	Manufacturer's sample.....	6.76	8.00	4.09	7.99	34.06
<b>J. S. Williams' Fertilizer Co., Paris, Texas—</b>						
Williams' Fertilizer—Guarantee...						
13490	Manufacturer's sample.....	10.50	11.50	1.85	.20	20.24
13906	Inspector's sample.....	13.25	13.49	<b>1.75</b>	.29	23.25
13907	Inspector's sample.....	11.87	14.56	1.98	.44	22.69
	Inspector's sample.....	12.33	15.24	1.76	.36	22.27
<b>Geo. A. Wright, Palestine, Texas—</b>						
Wright's Acid Phosphate—Guarantee						
13592	Manufacturer's sample.....	14.00	14.50	.....	.....	16.80
13739	Inspector's sample.....	15.40	15.69	.....	.....	18.48
13843	Inspector's sample.....	14.78	15.33	.....	.....	17.74
	Inspector's sample.....	15.68	15.95	.....	.....	18.82
Wright's Corn and Potato Special—						
Guarantee.....						
13593	Manufacturer's sample.....	7.50	7.80	3.50	.50	23.60
13617	Inspector's sample.....	7.57	7.87	4.15	.66	26.47
13740	Inspector's sample.....	<b>6.59</b>	6.97	3.83	.88	24.29
13844	Inspector's sample.....	7.61	7.96	3.50	.87	24.17
	Inspector's sample.....	<b>7.20</b>	7.48	<b>3.36</b>	1.32	<b>23.62</b>
Wright's Cotton Special—Guarantee.						
13809	Manufacturer's sample.....	8.00	8.20	2.00	2.00	20.00
	Manufacturer's sample.....	<b>8.67</b>	8.77	1.95	<b>1.86</b>	<b>20.42</b>