

TEXAS AGRICULTURAL EXPERIMENT STATIONS.

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**COMMERCIAL FERTILIZERS AND POISONOUS
INSECTICIDES IN 1907-8**

BY

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COMMERCIAL FERTILIZERS AND POISONOUS INSECTICIDES IN 1907-08.

G. S. FRAPS.

This bulletin deals with the State control of commercial fertilizers and poisonous insecticides. For information regarding the nature and use of fertilizers, reference is made to Bulletin No. 96.* The quantity of commercial fertilizers, exclusive of cottonseed meal, sold in Texas from September 1st to May 1st, is as follows for the last three seasons:

1905-6	13,500 tons.
1906-7	19,200 tons.
1907-8	21,850 tons.

THE FERTILIZER AND INSECTICIDE LAW.

Under the Texas law, all poisonous insecticides and all fertilizers, including bat guano, nitrate of soda, muriate of potash, and sulphate of potash, as well as mixed fertilizers, must carry on each package sold, or offered for sale, a tag bearing the analysis of the fertilizer or poisonous insecticide above the signature of the State Chemist. To expose or offer for sale any package of fertilizer or poisonous insecticide without this tag is a direct violation of the law. Dealers in fertilizers should see that all goods they receive are properly tagged; they violate the law in selling or offering for sale any untagged fertilizer, or poisonous insecticide.

FREE ANALYSES.

The State law provides that any agriculturist or farmer may take a sample of any commercial fertilizer or poisonous insecticide and have analysis made, free of charge, under rules and regulations prescribed by the State Chemist.

The object of the regulations given below is to make certain that a fair sample of the fertilizer has been sent for analysis. No sample of fertilizer will be analyzed until the State Chemist is satisfied that it represents the goods from which it was taken. It is not easy to take a fair sample of a fertilizer, and the analysis of an unrepresentative sample might possibly work an injustice to the manufacturer or consumer. We wish to emphasize this statement: *No free analysis of fertilizers or insecticides will be made until we are satisfied that the sample is a fair representative of the goods.*

DIRECTIONS FOR TAKING SAMPLES.

The following regulations have been adopted:

In the presence of a disinterested party select about five pounds from the top, middle and bottom of at least three sacks of the fertilizer; mix

*Another Bulletin dealing with this subject is being prepared.

these nine samples carefully, take from the mixture at least one pound, and send by prepaid express in a sealed can or jar, to "State Chemist, College Station, Texas." Be sure to place your name and address on the package. If the sample was not taken as described, give a statement as to how it was taken.

Fill out a certificate in the following form, and send it by mail to the State Chemist. Blank forms will be furnished by the State Chemist upon application, but if desired the form may be copied out on a sheet of paper.

I hereby certify that the sample of fertilizer (or poison), known and sold as, was bought by me of (Name of brand.), Texas, (Dealer's name and address.) (Date of purchase.)

and that it represents fairly the quality of the fertilizer (or poison) delivered to me and that the sample was taken according to the prescribed instructions, or as described on the back of this blank.

It is sold at \$......per ton, cash.

I further certify that I am not a dealer in or agent for any fertilizer sold in this State.

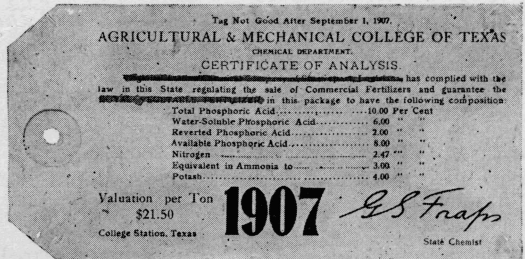
(Signed) Date Address

I hereby certify that I witnessed, as a disinterested party, the taking of the above named sample by Mr., and that it was taken as described. I believe it represents fairly the goods bought by him.

(Signed) Date Address

FORM OF TAG.

As has been stated, every package of fertilizer sold in Texas should carry a tag showing its chemical composition, and bearing the signature of the State Chemist. The following is an example of the tag used in 1906-07, the same form being used this season:



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 is easily taken up by plants.

Reverted phosphoric acid is not soluble in water, but can be taken up 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 cottonseed meal, nitrate of soda, blood, or 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 kainit.

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 and dealer's profit, in addition to the cost of the raw material.

FERTILIZER VALUATIONS, 1907-08.

The following valuations have been adopted for commercial fertilizers in Texas for the season of 1907-08:

	Cents per pound.
Phosphoric acid in mixed fertilizers and bat guano.....	6
Total phosphoric acid in tankage and bone.....	4
Nitrogen in mixed fertilizers and bat guano.....	17
Nitrogen in bone and tankage.....	13
Potash	6

The average cash selling price and valuation of number of brands of mixed fertilizer found on the Texas market during the season of 1905-06, 1906-07 and 1907-08 are given in the table following.

	SEASON.		
	1905-06.	1906-07.	1907-08.
Average selling price per ton.....	\$26.15	\$25.81	\$29.07
Average valuation.....	20.83	19.75	22.05
Difference	5.32	6.06	7.02

Nitrogen and potash have both been given on a higher valuation this season than the last. The selling price of commercial fertilizers appears to be increasing.

The average difference between selling price and valuation of un-mixed materials was found to be as follows:

	1905-06.	1906-07.	1907-08.
Acid phosphate, per ton.....	\$ 3.80	\$ 3.00	\$ 4.00
Kainit, per ton.....	8.00	7.85	8.00
Sulphate and muriate of potash, per ton...	20.00	20.00	20.00

Excepting acid phosphate, these materials were on hand only in small lots and limited in distribution.

POISONOUS INSECTICIDES.

All poisonous insecticides are subject to the same regulations as commercial fertilizers, and must carry a label showing the composition thereof, with the signature of the State Chemist. The sale of any poisonous insecticides without this label is in violation of law.

The insecticides registered under the law for the season, May 1, 1907, to May 1, 1908, are as follows:

American Horticultural Distributing Co.—Target Brand Arsenate of Lead, Martinsburg, West Virginia; J. A. Blanchard Co., New York, N. Y.

James Bute, Houston Texas.—London Purple.

Benj. Hammond, Fishkill-on-Hudson, N. Y.—Slug Shot.

Fred L. Lavanburg, New York, N. Y.—Paris Green and Arsenate of Lead.

The following poisonous insecticides have been registered for sale in Texas during the season beginning May 1, 1908:

Jas. A. Blanchard Co., New York, N. Y.—Lion Brand Paris Green.

James Bute, Houston, Texas.—London Purple.

Benjamin Hammond, Fishkill-on-Hudson, N. Y.—London Purple.

Morris Herman & Co., New York, N. Y.—Pure Paris Green.

I. Pfeiffer, New York, N. Y.—Paris Green.

ANALYSES OF FERTILIZERS, SEASON 1907-08.

The following tables contain

- The guaranteed composition of the fertilizers sold in Texas.
- The analyses of the samples sent by the manufacturer.
- The analyses of samples sent in by consumers (farmers' sample).
- The analyses of samples collected by the inspectors (inspectors' sample).

The relation between valuation and guarantee during the last three seasons is as follows (the valuations for 1907-08 refer to the mixed fertilizers only):

	SEASON.		
	1905-06.	1906-07.	1907-08.
Average valuation of inspectors' samples..	\$22.49	\$20.58	\$22.91
Average valuation guaranteed.....	20.62	19.12	21.55
Average excess furnished.....	1.87	1.46	1.36

Analyses of Commercial Fertilizers, Season of 1907-08.

Laboratory Number.	Manufacturer, Place of Business, and Brand.	Phosphoric Acid.		Nitrogen—Per Cent.	Potash—Per Cent.	Valuation.
		Available—Per Cent.	Total—Per Cent.			
Arkansas Fertilizer Co., Little Rock, Ark.—						
	Acid Phosphate—guarantee.....	12.00	14.00			\$ 14.40
1908	Manufacturer's sample.....	12.96	16.68			15.55
	White Diamond Acid Phosphate—guarantee.....	14.00	15.00			16.80
1977	Manufacturer's sample.....	15.00	16.60			18.00
2113	Inspector's sample.....	13.37	14.48			16.04
2116	Inspector's sample.....	11.52	14.37			13.82
2011	Inspector's sample.....	11.70	14.50			14.04
White Diamond Ammoniated Bone Super phosphate—guarantee.....						
	Manufacturer's sample.....	9.00	12.00	1.64	2.00	18.78
1909	Inspector's sample.....	9.23	12.04	1.76	2.11	19.59
White Diamond Kali Superphosphate—guarantee.....						
	Manufacturer's sample.....	12.00	13.00		2.50	17.40
1920	Inspector's sample.....	11.66	14.57		2.38	17.12
White Diamond Nitrated Superphosphate with Potash—guarantee.....						
	Manufacturer's sample.....	8.00	10.00	3.00	4.00	24.60
1906	Inspector's sample.....	8.07	10.37	3.06	4.25	25.18
2006	Inspector's sample.....	7.10	10.45	2.67	2.51	20.61
2115	Inspector's sample.....	8.55	10.40	1.68	2.32	18.75
White Diamond Orchard Fertilizer—guarantee.....						
	Manufacturer's sample.....	7.00	9.50	1.64	8.00	23.58
1905	Inspector's sample.....	7.10	9.17	1.80	8.05	24.30
White Diamond Twentieth Century Fertilizer—guarantee.....						
	Manufacturer's sample.....	9.00	11.00	1.64	2.00	18.78
1907	Inspector's sample.....	9.54	11.99	1.91	2.31	20.75
2007	Inspector's sample.....	7.55	10.20	2.14	2.30	19.10
2145	Inspector's sample.....	8.42	10.15	1.56	2.14	17.97
2114	Inspector's sample.....	8.20	9.95	1.97	2.08	19.04
2139	Inspector's sample.....	8.67	10.77	1.68	2.07	18.59
Armour Fertilizer Works, Chicago, Ill.—						
African Cotton Grower—guarantee.....						
	Manufacturer's sample.....	9.00	10.00	2.47	3.00	22.80
1892	Inspector's sample.....	9.95	10.85	2.48	3.30	24.33
2136	Inspector's sample.....	10.67	11.32	2.80	3.18	26.04
All Soluble—guarantee.....						
	Manufacturer's sample.....	8.00	9.00	2.88	4.00	24.19
1896	Inspector's sample.....	8.45	9.35	2.93	4.65	25.68
2108	Inspector's sample.....	11.03	12.15	2.25	2.83	24.35
Armour's Potato Fertilizer—guarantee.....						
	Manufacturer's sample.....	10.00	11.00	2.47	6.00	27.60
1894	Inspector's sample.....	10.27	11.15	2.66	6.20	28.80
2075	Inspector's sample.....	12.60	13.55	2.46	6.40	31.16
2027	Inspector's sample.....	11.80	12.15	2.47	7.14	31.12
2158	Inspector's sample.....	11.85	12.55	2.34	7.00	30.58
2182	Inspector's sample.....	12.43	13.20	2.92	4.45	30.19
Armour's Truck Special—guarantee.....						
	Manufacturer's sample.....	7.00	8.00	4.11	6.00	29.57
1888	Inspector's sample.....	7.90	8.73	4.16	6.54	31.47
2157	Inspector's sample.....	7.39	8.80	4.05	8.10	32.36
Corn and Cotton Grower—guarantee.....						
	Manufacturer's sample.....	8.00	9.00	.82	1.00	13.59
1897	Inspector's sample.....	8.38	9.18	1.16	1.57	15.88
2015	Inspector's sample.....	8.50	9.40	1.18	1.41	16.10
2125	Inspector's sample.....	7.85	9.57	1.18	1.31	15.00
King Cotton—guarantee.....						
	Manufacturer's sample.....	8.00	9.00	1.65	2.00	17.61
1890	Inspector's sample.....	8.48	9.38	1.83	2.46	19.31
2159	Inspector's sample.....	8.47	9.72	2.22	3.77	22.23
2097	Inspector's sample.....	9.42	10.85	1.72	2.39	20.02
Raw Bone Meal guarantee.....						
	Manufacturer's sample.....		22.00	3.70		27.22
1891	Inspector's sample.....		24.00	3.90		29.34
2030	Inspector's sample.....		23.90	4.02		29.57
Phosphate and Potash—guarantee.....						
	Manufacturer's sample.....	10.00	11.00		2.00	14.40
1898	Inspector's sample.....	10.13	10.73		2.50	15.16
Soluble Phosphate and Potash—guarantee.....						
	Manufacturer's sample.....	10.00	12.00		4.00	16.80
1889	Inspector's sample.....	10.62	11.25		4.66	18.33
Star Phosphate—guarantee.....						
	Manufacturer's sample.....	14.00	16.00			16.80
1895	Inspector's sample.....	14.30	15.10			17.16
2074	Inspector's sample.....	15.50	16.65			18.60
2123	Inspector's sample.....	14.20	16.10			17.04
2160	Inspector's sample.....	15.31	17.05			18.37
Texas Vegetable Grower—guarantee.....						
	Manufacturer's sample.....	9.00	10.00	2.05	3.00	21.37
1893	Inspector's sample.....	9.27	10.30	2.06	3.73	22.60
2181	Inspector's sample.....	9.90	11.40	2.60	3.11	24.45
2014	Inspector's sample.....	10.75	11.50	2.00	3.39	23.77
2124	Inspector's sample.....	10.37	12.55	1.98	2.34	23.18
12-2 Fertilizer—guarantee.....						
	Manufacturer's sample.....	12.00	12.00		2.00	16.80
2144	Inspector's sample.....	11.37	11.71		1.96	15.99
Bryan Cotton Oil Co., Bryan, Texas.—						
Star Brand Acid Phosphate—guarantee.....						
	Manufacturer's sample.....	14.00	15.00			16.80
1987	Inspector's sample.....	14.05	16.65			16.86

Analyses of Commercial Fertilizers, Season of 1907-08—continued.

Laboratory Number.	Manufacturer, Place of Business, and Brand.	Phosphoric Acid.		Nitrogen—Per Cent.	Potash—Per Cent.	Valuation.
		Available—Per Cent.	Total—Per Cent.			
	Bryan Cotton Oil Co., Bryan, Texas—continued.					
2143	Inspector's sample.....	14.33	16.40			\$ 17.20
	Star Brand Cotton and Corn—guarantee.....	8.00	9.00	1.65	2.00	17.61
1992	Manufacturer's sample.....	8.80	10.40	2.18	2.05	20.43
2060	Inspector's sample.....	8.15	10.05	2.10	2.16	19.51
	Caddo Fertilizer Co., Shreveport, La.—					
	Acid Phosphate—guarantee.....	14.00	15.00			16.80
1817	Manufacturer's sample.....	15.12	16.20			18.14
2055	Inspector's sample.....	13.70	15.35			16.44
2058	Inspector's sample.....	12.65	14.30			15.18
	Caddo Corn—guarantee.....	6.00	7.00	2.90	1.00	18.20
1820	Manufacturer's sample.....	7.05	7.60	3.31	1.33	21.31
2106	Inspector's sample.....	7.35	8.50	3.20	1.67	21.70
	Caddo Cotton—guarantee.....	8.00	9.00	2.05	1.00	17.77
1816	Manufacturer's sample.....	9.19	9.85	2.29	1.35	20.44
2062	Inspector's sample.....	9.00	10.55	2.24	1.39	20.09
2057	Inspector's sample.....	9.90	10.80	2.39	1.51	21.82
	Caddo Special—guarantee.....	6.00	7.00	2.50	7.00	24.10
1818	Manufacturer's sample.....	7.62	8.10	2.80	7.47	27.62
2016	Inspector's sample.....	7.95	8.55	2.10	5.86	23.71
2054	Inspector's sample.....	8.25	10.05	2.15	3.50	21.41
	Caddo Vegetable—guarantee.....	8.00	9.00	3.30	4.00	25.62
1821	Manufacturer's sample.....	9.05	9.50	3.44	4.42	27.86
2024	Inspector's sample.....	8.40	9.30	3.22	4.67	26.63
2094	Inspector's sample.....	8.45	9.65	3.76	4.01	27.73
	Star—guarantee.....	10.00	11.00	1.65	1.50	19.41
1819	Manufacturer's sample.....	10.97	11.75	2.03	1.89	22.33
2056	Inspector's sample.....	9.95	11.25	1.54	1.32	18.75
	Consumers Fertilizer Co., Shreveport, La.—					
	Acid Phosphate—guarantee.....	16.00	16.50			19.20
2086	Manufacturer's sample.....	16.90	18.55			20.28
2100	Inspector's sample.....	15.05	17.25			18.06
2133	Inspector's sample.....	14.33	17.00			17.20
	Tri-State Corn—guarantee.....	6.50	7.50	2.90	.45	18.20
1924	Manufacturer's sample.....	6.61	7.71	3.44	.81	20.60
2130	Inspector's sample.....	6.95	8.15	3.08	.76	19.72
	Tri-State Cotton—guarantee.....	9.50	10.50	1.85	.30	18.05
1922	Manufacturer's sample.....	10.39	12.31	2.45	.43	21.32
2131	Inspector's sample.....	9.90	11.67	1.94	.47	19.04
2134	Inspector's sample.....	9.84	11.54	2.36	.47	20.39
2142	Inspector's sample.....	9.20	10.85	2.38	.42	19.63
	Tri-State Special—guarantee.....	11.00	12.00	2.67	.25	22.58
1923	Manufacturer's sample.....	10.65	12.49	3.12	1.03	24.64
2141	Inspector's sample.....	12.04	13.07	2.68	.36	23.99
2090	Inspector's sample.....	10.11	11.61	2.72	.29	21.83
	East Texas Fertilizer Co., Tyler, Texas.—					
	Acid Phosphate—guarantee.....	15.00	16.00			18.00
1956	Manufacturer's sample.....	15.08	17.00			18.10
2031	Inspector's sample.....	14.80	16.00			17.76
2103	Inspector's sample.....	15.95	17.35			19.14
	Corn and Cotton Grower—guarantee.....	8.00	9.00	2.00	2.00	18.80
1913	Manufacturer's sample.....	7.96	8.45	2.04	2.55	19.13
2035	Inspector's sample.....	8.40	9.15	1.92	2.67	19.81
2340	Inspector's sample.....	8.15	8.90	2.14	2.19	19.69
	Cotton Special—guarantee.....	10.00	10.25	2.00	2.00	21.20
1912	Manufacturer's sample.....	10.11	10.56	2.45	2.96	23.94
2043	Inspector's sample.....	11.91	12.61	2.71	3.08	27.19
	East Texas Crop Grower—guarantee.....	10.00	10.25	2.74	3.00	24.92
1988	Manufacturer's sample.....	9.26	10.41	3.16	3.06	25.52
1939	Farmer's sample.....	11.05	12.05	3.06	3.00	27.26
2037	Inspector's sample.....	10.85	11.65	2.74	2.99	25.93
2102	Inspector's sample.....	9.44	10.05	2.90	3.79	25.74
2098	Inspector's sample.....	9.40	10.05	3.02	3.87	26.19
	Kainit—guarantee.....				12.00	14.40
1915	Manufacturer's sample.....				13.29	15.95
2025	Inspector's sample.....				12.84	15.41
	Muriate of Potash—guarantee.....				48.00	57.60
1902	Manufacturer's sample.....				56.44	67.73
2029	Inspector's sample.....				52.35	62.82
	Nitrate of Soda—guarantee.....			15.00		51.00
1903	Manufacturer's sample.....			15.24		51.82
	Sulphate of Potash—guarantee.....				48.53	58.24
1901	Manufacturer's sample.....				48.53	58.24
2059	Inspector's sample.....				50.35	60.42

Analyses of Commercial Fertilizers, Season of 1907-08—continued.

Laboratory Number.	Manufacturer, Place of Business, and Brand.	Phosphoric Acid.		Nitrogen—Per Cent.	Potash—Per Cent.	Valuation.
		Available—Per Cent.	Total—Per Cent.			
	East Texas Fertilizer Co., Tyler, Texas—cont'd.					
	Tomato Special—guarantee.....	11.00	11.50	2.00	.40	20.48
1955	Manufacturer's sample.....	11.78	12.75	2.51	.42	23.17
2039	Inspector's sample.....	11.15	11.85	2.85	.34	23.48
2023	Inspector's sample.....	10.20	11.25	3.16	.41	23.47
	Fidelity Cotton Oil and Fertilizer Co., Houston, Texas—					
	Fidelity Acid Phosphate—guarantee.....	14.00	16.00			16.80
1934	Manufacturer's sample.....	18.11	18.87			21.73
2085	Inspector's sample.....	14.10	15.15			16.93
	Fidelity Cane Special—guarantee.....	8.00	9.00	3.30	3.00	24.42
1873	Manufacturer's sample.....	8.83	8.90	3.67	3.60	27.38
	Fidelity Cereal Cultivator—guarantee.....	6.00	7.00	2.47	1.00	16.80
1876	Manufacturer's sample.....	7.10	7.80	2.97	.89	19.69
	Fidelity Cotton Standard—guarantee.....	8.00	9.00	2.06	1.50	18.40
1877	Manufacturer's sample.....	9.12	9.50	2.42	2.09	21.68
2088	Inspector's sample.....	8.30	8.95	2.10	1.64	19.08
	Fidelity Cotton Special—guarantee.....	10.00	11.00	1.65	2.00	20.01
1875	Manufacturer's sample.....	10.55	11.25	1.66	1.98	20.68
	Fidelity Kainit—guarantee.....				12.00	14.40
1978	Manufacturer's sample.....				12.38	14.85
	Fidelity Lone Star Special—guarantee.....	10.00	11.00	1.65	6.00	24.81
1874	Manufacturer's sample.....	10.93	11.68	1.86	6.06	26.71
1944	Inspector's sample.....	10.00	10.50	2.40	6.10	27.48
2168	Inspector's sample*.....	9.80	10.50	2.02	2.00	21.03
	Fidelity Muriate of Potash—guarantee.....				50.00	60.00
1980	Manufacturer's sample.....				52.72	63.26
	Fidelity Nitrate of Soda—guarantee.....			15.00		51.00
1979	Manufacturer's sample.....			15.32		52.09
	Fidelity Peerless Trucker—guarantee.....	8.00	9.00	2.47	5.00	24.00
1870	Manufacturer's sample.....	8.50	8.68	2.97	5.34	26.71
1943	Inspector's sample.....	8.05	8.55	2.41	5.59	24.80
2021	Inspector's sample.....	8.55	9.35	2.43	4.75	24.20
	Fidelity Potato Special—guarantee.....	7.00	8.00	2.06	3.00	19.00
1869	Manufacturer's sample.....	7.67	8.15	2.67	3.16	22.07
2020	Inspector's sample.....	7.05	8.05	1.96	3.38	19.18
	Fidelity Rice Planter—guarantee.....	12.00	12.20		2.00	16.80
1958	Manufacturer's sample.....	12.15	13.20		2.63	17.74
	Fidelity Royal Compound—guarantee.....	10.00	11.00		4.00	16.80
1926	Manufacturer's sample.....	10.37	10.82		4.17	17.44
1945	Inspector's sample.....	10.65	11.15		4.05	17.64
	Strawberry Special—guarantee.....	6.00	6.50	2.47	5.00	21.60
1878	Manufacturer's sample.....	7.87	8.33	2.80	5.25	25.26
1948	Inspector's sample.....	6.05	6.75	3.08	5.49	24.32
	Fidelity Truck Grower—guarantee.....	8.00	9.00	2.47	8.00	27.60
1960	Manufacturer's sample.....	8.35	9.10	3.12	8.62	30.97
	Germofert Manufacturing Co., Charleston, S. C.—					
	Germofert Patented Rice Fertilizer—guarantee.....	1.80	13.50		2.00	7.80
2162	Manufacturer's sample.....	1.80	20.15		4.79	13.81
	Gulfport Cotton Oil Fertilizer and Manufacturing Co., Gulfport, Miss.—					
	High Grade Primo Cotton and Corn Guano—guarantee.....	10.00	11.00	1.65	2.00	20.01
1984	Manufacturer's sample.....	9.90	10.75	2.16	3.21	23.07
	High Grade Primo Fruit Tree Special—guarantee.....	6.00	7.00	1.65	8.00	22.41
1985	Manufacturer's sample.....	7.05	7.85	2.15	10.36	28.20
	High Grade Primo Strawberry Compound—guarantee.....	6.00	7.00	2.47	5.00	21.60
1983	Manufacturer's sample.....	6.30	7.15	3.15	8.20	28.11
	Primo German Kainit—guarantee.....				12.00	14.40
1839	Manufacturer's sample.....				12.14	14.57
1940	Inspector's sample.....				12.90	15.48
2080	Inspector's sample.....				11.11	13.33
	Primo High Grade Acid Phosphate—guarantee.....	14.00	15.00			16.80
1846	Manufacturer's sample.....	15.32	16.55			18.88
1947	Inspector's sample.....	14.25	14.45			17.10
2083	Inspector's sample.....	13.85	16.10			16.62
	Primo High Grade Acid Phosphate and Potash—guarantee.....	10.00	11.00		4.00	16.80
1848	Manufacturer's sample.....	12.33	13.28		3.75	19.30
	Primo High Grade Blood and Bone—guarantee.....	10.00	11.00	1.65	2.00	20.01

* Wrong brand shipped in error, mistake corrected.

Analyses of Commercial Fertilizers, Season of 1907-08—continued.

Laboratory Number.	Manufacturer, Place of Business, and Brand.	Phosphoric Acid.		Nitrogen—Per Cent.	Potash—Per Cent.	Valuation.
		Available—Per Cent.	Total—Per Cent.			
	Gulfport Cotton Oil Fertilizer and Manufacturing Co., Gulfport, Miss.—continued.					
1841	Manufacturer's sample.....	12.10	12.75	1.58	2.49	\$ 22.88
	Primo High Grade Rice Special—guarantee.....	12.00	13.50	.....	2.00	16.80
1843	Manufacturer's sample.....	13.90	15.35	.....	2.70	19.92
	Primo High Grade Vegetable Grower—guarantee.....	6.00	7.00	2.47	5.00	21.60
1838	Manufacturer's sample.....	8.00	8.48	2.85	4.61	24.82
1921	Manufacturer's sample.....	6.18	6.87	3.45	9.56	30.62
2078	Inspector's sample.....	7.60	7.96	2.58	6.13	25.25
	Primo Muriate of Potash—guarantee.....	.....	.....	.....	50.00	60.00
1842	Manufacturer's sample.....	.....	.....	.....	56.75	68.10
1939	Inspector's sample.....	.....	.....	.....	55.95	67.14
2084	Inspector's sample.....	.....	.....	.....	45.22	54.26
	Primo Nitrate of Soda—guarantee.....	.....	.....	15.00	.....	51.00
1837	Manufacturer's sample.....	.....	.....	15.36	.....	52.22
1941	Inspector's sample.....	.....	.....	16.00	.....	54.40
2082	Inspector's sample.....	.....	.....	14.40	.....	48.96
	Primo Raw Ground Bone—guarantee.....	.....	20.00	3.00	.....	23.80
1986	Manufacturer's sample.....	.....	24.27	3.24	.....	27.84
	Primo Standard Acid Phosphate—guarantee.....	12.00	13.00	.....	.....	14.40
1847	Manufacturer's sample.....	14.25	15.48	.....	.....	17.10
	Primo Standard Acid Phosphate and Potash—guarantee.....	10.00	11.50	.....	2.00	14.40
1844	Manufacturer's sample.....	12.40	13.33	.....	2.19	17.51
	Primo Standard Cotton Seed Meal Compound—guarantee.....	9.00	10.00	1.65	2.00	18.81
1845	Manufacturer's sample.....	10.92	11.60	1.97	2.70	23.04
	Primo Standard Raw Bone Superphosphate—guarantee.....	9.00	10.00	1.65	2.00	18.81
1849	Manufacturer's sample.....	10.30	11.15	1.69	2.22	20.77
1942	Inspector's sample.....	7.62	8.40	2.54	2.45	20.71
2077	Inspector's sample.....	10.20	11.05	1.49	2.50	20.31
	Primo Sulphate of Potash—guarantee.....	.....	.....	.....	50.00	60.00
1840	Manufacturer's sample.....	.....	.....	.....	50.90	61.08
	M. P. Hargrave, Galveston, Texas—					
	"Lando" Fertilizer—guarantee.....	.51	.75	1.25	3.53	9.10
1790	Manufacturer's sample.....	.51	.75	1.25	3.53	9.10
	Hillje Bros., Weimar, Texas—					
	H. B. W.—guarantee.....	8.00	9.00	2.00	2.00	18.80
1953	Manufacturer's sample.....	8.46	9.94	2.46	2.45	21.45
	Houston County Oil Mill and Manufacturing Co., Crockett, Tex.—					
	Crockett Cotton Standard—guarantee.....	8.75	10.00	2.50	1.50	20.80
1975	Manufacturer's sample.....	9.20	10.75	2.98	1.49	22.96
2104	Inspector's sample.....	8.90	11.20	2.44	1.75	21.08
	Crockett Phospho Special—guarantee.....	10.75	12.00	1.50	1.10	19.32
1954	Manufacturer's sample.....	10.96	12.62	1.74	1.14	20.44
2089	Inspector's sample.....	9.44	11.94	1.91	1.63	19.78
	Crockett Grower—guarantee.....	9.00	11.00	2.50	2.70	22.54
1951	Manufacturer's sample.....	9.32	11.11	2.68	2.74	23.58
2092	Inspector's sample.....	8.25	10.00	2.70	2.83	22.48
	Crockett Vegetable Producer—guarantee.....	6.30	7.50	3.50	5.25	25.76
1952	Manufacturer's sample.....	6.39	7.54	4.08	5.37	27.98
2041	Inspector's sample.....	5.70	8.05	3.67	6.53	27.16
	Houston Packing Co., Houston, Texas—					
	Tankage—guarantee.....	6.00	11.00	6.50	.....	24.10
1791	Manufacturer's sample.....	5.97	12.97	6.94	.....	25.20
1946	Inspector's sample.....	6.15	9.65	7.30	.....	26.14
	Huntsville Cotton Oil Co., Huntsville, Texas—					
	Huntsville High Grade—guarantee.....	10.25	12.00	2.50	3.00	24.40
1968	Manufacturer's sample.....	10.31	11.10	2.55	3.02	24.76
2109	Farmer's sample.....	10.05	10.85	2.31	3.20	23.75
	Jacksonville Cotton Oil Co., Jacksonville, Tex.—					
	Acid Phosphate, 12 per cent—guarantee.....	12.00	14.00	.....	.....	14.40
1963	Manufacturer's sample.....	11.92	14.90	.....	.....	14.30
	Acid Phosphate, 13 per cent—guarantee.....	13.21	14.57	.....	.....	15.85
1969	Manufacturer's sample.....	13.25	14.65	.....	.....	15.90
2076	Inspector's sample.....	12.40	14.65	.....	.....	14.88
	G. & H Tomato Special—guarantee.....	8.07	9.97	3.40	.29	21.59
1927	Manufacturer's sample.....	8.07	9.97	3.40	.29	21.59
	Jacksonville Cherokee Standard—guarantee.....	9.40	11.00	2.00	2.00	20.48
1971	Manufacturer's sample.....	9.80	10.70	2.12	1.94	21.50
	Jacksonville Vegetable Grower—guarantee.....	7.50	9.00	3.00	5.00	25.20

Analyses of Commercial Fertilizers, Season of 1907-08—continued.

Laboratory Number.	Manufacturer, Place of Business, and Brand.	Phosphoric Acid.		Nitrogen—Per Cent.	Potash—Per Cent.	Valuation.
		Available—Per Cent.	Total—Per Cent.			
Jacksonville Cotton Oil Co., Jacksonville, Tex.—continued—						
2010	Manufacturer's sample.....	7.35	8.75	3.22	4.77	\$ 25.49
	Muriate of Potash—guarantee.....				50.00	60.00
1932	Manufacturer's sample.....				49.46	59.35
	Nitrate of Soda—guarantee.....			15.00		51.00
1928	Manufacturer's sample.....			15.00		51.00
	Potato Special—guarantee.....	5.99	7.40	5.27	.86	26.06
1931	Manufacturer's sample.....	5.99	7.40	5.27	.86	26.06
2013	Inspector's sample.....	6.25	7.15	5.30	.77	26.44
	Sulphate of Potash—guarantee.....				52.58	63.10
2149	Manufacturer's sample.....				52.58	63.10
Longview Cotton Oil Co., Longview, Tex.—						
	Corn and Cotton Grower—guarantee.....	8.00	10.30	1.65	2.20	17.85
1994	Manufacturer's sample.....	7.95	10.30	1.80	2.22	18.32
2111	Inspector's sample.....	8.55	11.40	1.96	2.35	19.74
	Longview Cotton Special—guarantee.....	9.00	10.00	2.25	.30	18.69
2147	Manufacturer's sample.....	10.00	11.15	2.40	.21	20.41
	Vegetable and Truck Grower—guarantee.....	7.50	9.50	2.50	3.00	21.10
1993	Manufacturer's sample.....	7.45	9.45	2.60	2.96	21.33
2112	Inspector's sample.....	8.15	11.25	2.28	3.00	21.13
John Marbach, New Braunfels, Tex.—						
	Crude Bat Guano—guarantee.....	2.50	2.75	10.15	1.00	38.71
1786	Manufacturer's sample.....	3.24	3.34	10.70	1.12	41.61
1973	Farmer's sample.....	3.28	3.58	13.10		48.48
	Bat Guano Compost—guarantee.....	4.75	8.20	5.10	1.25	24.54
1787	Manufacturer's sample.....	5.00	8.27	5.58	1.94	27.30
Meridian Fertilizer Factory, Meridian, Miss.—						
	Meridian Blood and Bone—guarantee.....	9.50	10.50	1.65	1.50	18.81
1814	Manufacturer's sample.....	9.60	10.63	2.03	1.73	20.50
2126	Inspector's sample.....	9.18	12.45	1.86	2.06	19.81
2091	Inspector's sample.....	10.75	12.90	2.09	1.92	22.31
2052	Inspector's sample.....	10.10	11.30	2.61	1.68	23.01
2081	Inspector's sample.....	9.85	11.60	2.53	.98	21.62
	Meridian German Kainit—guarantee.....				12.00	14.40
1813	Manufacturer's sample.....				12.38	14.85
	Meridian Home Mixture—guarantee.....	9.50	10.50	1.65	1.50	18.81
1811	Manufacturer's sample.....	11.13	11.98	1.78	1.91	21.70
2167	Farmer's sample.....	9.30	10.70	1.85	1.83	19.65
2047	Inspector's sample.....	9.50	10.85	1.82	1.33	19.19
2038	Inspector's sample.....	10.85	11.80	2.40	1.31	21.32
2044	Inspector's sample.....	10.15	11.15	1.72	2.07	20.51
2095	Inspector's sample.....	10.25	11.80	1.78	1.56	20.22
2072	Inspector's sample.....	9.16	10.76	1.58	1.43	18.08
	Meridian Southern Acid Phosphate—guarantee.....	14.00	15.00			16.80
899	Manufacturer's sample.....	15.47	16.35			18.56
163	Farmer's sample.....	12.97	14.32			15.56
135	Inspector's sample.....	12.37	14.95			14.84
053	Inspector's sample.....	12.00	13.40			14.12
127	Inspector's sample.....	12.92	14.85			15.50
	Meridian Special Cabbage—guarantee.....	8.00	9.00	5.35	6.50	35.59
810	Manufacturer's sample.....	9.29	9.79	5.42	7.54	38.65
046	Inspector's sample.....	8.95	9.80	3.81	4.48	29.07
	Meridian Special Tomato—guarantee.....	11.00	12.00	2.50	1.00	22.90
815	Manufacturer's sample.....	12.75	13.68	2.88	1.26	26.60
034	Inspector's sample.....	11.25	12.25	2.24	1.40	22.80
049	Inspector's sample.....	10.15	11.80	2.32	2.23	22.75
	Meridian Standard Trucker—guarantee.....	9.00	9.20	2.40	2.00	21.36
935	Manufacturer's sample.....	8.73	9.47	2.98	2.90	24.09
	Meridian Trucker's Special—guarantee.....	8.50	9.50	1.65	3.00	19.41
904	Manufacturer's sample.....	8.62	9.25	1.72	3.48	20.37
018	Inspector's sample.....	9.00	9.90	1.95	2.76	20.74
101	Inspector's sample.....	10.11	12.61	1.90	2.38	21.45
	Meridian Vegetable Grower—guarantee.....	8.00	9.00	2.50	5.00	24.10
312	Manufacturer's sample.....	9.96	10.61	2.88	6.30	29.30
779	Inspector's sample.....	9.50	10.15	2.30	5.15	25.40
222	Inspector's sample.....	8.80	9.80	2.85	4.83	26.05
048	Inspector's sample.....	8.13	9.48	2.27	6.33	25.08
	Muriate of Potash—guarantee.....				50.00	60.00
61	Manufacturer's sample.....				52.03	62.44
45	Inspector's sample.....				49.36	59.23
	Nitrate of Soda—guarantee.....			15.00		51.00
62	Manufacturer's sample.....			15.08		51.27
50	Inspector's sample.....			14.38		48.89

Analyses of Commercial Fertilizers, Season of 1907-08—continued.

Laboratory Number.	Manufacturer, Place of Business, and Brand.	Phosphoric Acid.		Nitrogen—Per Cent.	Potash—Per Cent.	Valuation.
		Available—Per Cent.	Total—Per Cent.			
	New Orleans Acid and Fertilizer Co., New Orleans, La.—					
	Ammoniated Raw Bone Superphosphate and Potash—guarantee.....	9.00	11.00	1.95	1.50	\$ 18.21
1990	Manufacturer's sample.....	9.60	9.70	1.96	2.35	21.00
	Black Diamond Acid Phosphate—guarantee.....	12.00	14.00			14.40
1925	Manufacturer's sample.....	16.52	16.77			19.82
1959	Manufacturer's sample.....	13.45	13.70			16.14
2069	Inspector's sample.....	11.60	11.80			13.92
	Blood, Bone and Potash—guarantee.....	9.00	11.00	1.65	1.50	18.21
1919	Manufacturer's sample.....	11.95	12.19	2.29	2.67	24.61
2063	Inspector's sample.....	8.90	9.05	1.64	1.98	18.64
	Crescent City Acid Phosphate—guarantee.....	12.00	14.00			14.40
1826	Manufacturer's sample.....	13.20	14.30			15.84
2017	Inspector's sample.....	12.60	12.85			15.12
	Dissolved Bone and Potash—guarantee.....	10.00	12.00		2.00	14.40
1824	Manufacturer's sample.....	11.08	12.18		1.98	16.38
	High Grade Acid Phosphate—guarantee.....	16.00	18.00			19.20
1830	Manufacturer's sample.....	17.52	18.20			21.02
	Goldsmith's Improved Mixture—guarantee.....	9.00	11.00	1.65	1.50	18.21
1822	Manufacturer's sample.....	10.50	10.85	1.95	1.78	21.37
2067	Inspector's sample.....	9.20	10.15	1.83	1.73	19.34
	Kainit—guarantee.....				12.00	14.40
1828	Manufacturer's sample.....				12.56	15.07
	Nitrate of Soda—guarantee.....			14.00		47.60
1831	Manufacturer's sample.....			14.88		50.59
	Muriate of Potash—guarantee.....				50.00	60.00
1825	Manufacturer's sample.....				51.35	61.62
	Vegetable Grower—guarantee.....	6.00	8.00	2.47	4.00	20.40
1823	Manufacturer's sample.....	7.83	8.23	2.74	4.01	23.53
	The Nitrate Agencies Co., New Orleans, La.—				15.00	51.00
2166	Nitrate of Soda—guarantee.....				14.60	49.64
	Manufacturer's sample.....					
	The H. Schumacher Oil Works, Navasota, Tex.—					
	Texas Staple Fertilizer—guarantee.....	7.23	7.31	3.69	3.67	25.63
1957	Manufacturer's sample.....	7.23	7.31	3.69	3.67	25.63
2026	Inspector's sample.....	6.95	7.25	3.42	3.88	24.63
	Standard Guano and Chemical Manufacturing Co., New Orleans, La.—					
	Acid Phosphate and Potash—guarantee.....	10.00	11.25		2.00	14.40
1805	Manufacturer's sample.....	11.10	13.18		2.00	16.52
	Champion Farmer's Choice—guarantee.....	9.50	11.00	1.65	1.00	18.21
1809	Manufacturer's sample.....	9.97	11.93	1.83	1.31	19.75
	Dissolved Bone and Potash—guarantee.....	10.00	10.50		4.00	16.80
1795	Manufacturer's sample.....	12.27	13.15		4.28	19.86
	Ground Bone and Potash—guarantee.....		15.00	2.73	3.00	24.95
1793	Manufacturer's sample.....		16.55	2.87	3.49	24.99
	High Grade Acid Phosphate and Potash—guarantee.....	12.00	14.00		2.00	16.80
1800	Manufacturer's sample.....	13.97	15.30		2.15	19.34
	Kainit—guarantee.....				12.00	14.40
1808	Manufacturer's sample.....				12.18	14.61
	Mississippi Home Guano—guarantee.....	9.50	11.00	1.65	1.50	18.81
1794	Manufacturer's sample.....	9.54	11.42	1.80	2.03	20.01
2071	Inspector's sample.....	9.30	11.00	2.07	1.99	20.59
	Muriate of Potash—guarantee.....				45.00	54.00
1797	Manufacturer's sample.....				50.45	60.54
	Pure Raw Ground Bone—guarantee.....		18.50	2.50		21.30
1804	Manufacturer's sample.....		24.28	3.02		24.31
2069	Inspector's sample.....		18.85	3.82		25.01
2180	Inspector's sample.....		21.91	3.06		25.49
	Special Formula—guarantee.....	8.00	9.00	2.48	5.00	24.03
1976	Manufacturer's sample.....	9.00	10.00	2.74	5.05	26.18
	Standard Ammoniated Soluble Guano—guarantee.....	9.50	11.50	1.65	1.50	18.81
1807	Manufacturer's sample.....	11.19	13.29	1.69	1.69	21.21
	Standard Blood, Bone and Meat Fertilizer—guarantee.....	9.50	11.50	1.65	1.50	18.81
1796	Manufacturer's sample.....	10.73	12.98	1.93	1.73	21.52
	Standard High Grade Sugar Fertilizer—guarantee.....	10.00	11.50	2.50	2.00	22.90
1806	Manufacturer's sample.....	11.03	13.03	2.42	2.29	24.21
	Standard High Grade Truck Grower—guarantee.....	8.00	9.50	3.50	7.00	29.90
1798	Manufacturer's sample.....	9.70	10.75	3.55	7.49	32.67

Analyses of Commercial Fertilizers, Season of 1907-08—continued.

Laboratory Number.	Manufacturer, Place of Business, and Brand.	Phosphoric Acid.		Nitrogen—Per Cent.	Potash—Per Cent.	Valuation.
		Available—Per Cent.	Total—Per Cent.			
	Standard Guano and Chemical Manufacturing Co., New Orleans, La.—continued.					
1792	Standard Raw Bone Rice Fertilizer—guarantee	9.50	11.50	1.65	1.50	\$ 18.81
	Manufacturer's sample.....	11.10	13.48	1.94	1.69	21.95
	Inspector's sample.....	6.00	7.25	2.50	5.00	21.70
1799	Standard Vegetable Fertilizer—guarantee.....	6.95	8.75	3.55	5.60	27.13
1966	Manufacturer's sample.....	7.05	8.05	2.66	4.95	23.44
2093	Inspector's sample.....	7.33	9.18	2.92	4.51	24.14
2179	Inspector's sample.....	7.05	9.10	2.94		23.88
	Stern's Acid Phosphate—guarantee.....	14.00	16.00			16.80
1801	Manufacturer's sample.....	16.53	18.73			19.84
2036	Inspector's sample.....	13.85	16.55			16.62
2107	Inspector's sample.....	13.30	16.20			15.96
	Stern's Ammoniated Raw Bone Superphosphate—guarantee.....	9.50	11.50	1.65	1.50	18.81
1803	Manufacturer's sample.....	10.75	13.10	1.66	1.65	20.52
2064	Inspector's sample.....	10.10	11.40	1.74	1.82	20.22
2178	Inspector's sample.....	9.57	11.32	2.06	1.91	20.77
	Sulphate of Potash—guarantee.....				47.00	56.40
1802	Manufacturer's sample.....				49.88	59.85
	Swift and Co., Chicago, Ill.—					
	Swift's Champion Vegetable and Tobacco Grower—guarantee.....	8.00	10.00	3.28	3.00	24.35
1836	Manufacturer's sample.....	8.72	11.00	3.20	3.25	25.24
2154	Inspector's sample.....	8.55	9.87	3.52	3.32	25.21
2121	Inspector's sample.....	8.25	11.30	3.24	3.34	24.93
	Swift's East Texas Trucker—guarantee.....	8.00	10.00	2.46	3.00	21.56
	Manufacturer's sample.....	8.30	10.83	2.49	3.10	22.15
2152	Inspector's sample.....	8.70	11.25	3.19	3.41	25.38
	Swift's Mandarin Rice Fertilizer—guarantee.....	10.00	12.00	1.34	1.50	17.92
1998	Manufacturer's sample.....	10.25	11.95	1.46	1.67	19.26
	Swift's Mikado Rice Fertilizer—guarantee.....	10.00	11.00		2.00	14.40
1907	Manufacturer's sample.....	9.70	10.45		2.06	14.11
2150	Inspector's sample.....	10.13	10.80		3.84	16.77
	Swift's Pure Bone Meal—guarantee.....		25.0	2.50		26.50
1880	Manufacturer's sample.....		26.05	2.51		27.57
2155	Inspector's sample.....		30.30	1.68		28.61
	Swift's Pure Special Bone Meal—guarantee.....		27.50	.82		24.13
1832	Manufacturer's sample.....		29.68	1.74		28.26
2000	Inspector's sample.....		28.80	.80		25.12
2151	Inspector's sample.....		31.00	1.48		28.65
	Swift's Special Vegetable, guarantee.....	8.00	10.00	2.05	6.00	23.77
1834	Manufacturer's sample.....	8.98	10.78	2.19	6.00	25.22
1917	Farmer's sample.....	9.23	10.56	2.65	5.85	27.11
3008	Inspector's sample.....	9.65	12.15	2.59	5.81	27.35
1153	Inspector's sample.....	8.65	9.62	2.38	6.36	26.10
	Swift's Superphosphate—guarantee.....	8.00	12.00	1.64	2.00	17.58
1835	Manufacturer's sample.....	8.53	10.58	1.91	2.09	19.24
3002	Inspector's sample.....	6.94	11.85	2.11	3.73	19.98
1132	Inspector's sample.....	7.00	12.61	1.94	1.96	17.35
3096	Inspector's sample.....	7.27	13.30	2.04	1.93	17.98
1122	Inspector's sample.....	5.73	12.69	1.95	2.03	15.95
3012	Inspector's sample.....	7.45	14.45	2.15	1.91	18.55
1156	Inspector's sample.....	6.11	12.00	2.06	2.42	17.03
	Tuscarora Fertilizer Co., Chicago, Ill.—					
	Bone and Potash—guarantee.....	10.00	11.00		2.00	14.40
885	Manufacturer's sample.....	10.25	11.30		2.38	15.16
	High Grade Dissolved Bone—guarantee.....	14.00	16.0			16.80
882	Manufacturer's sample.....	14.08	14.67			16.90
	Plantation Trucker—guarantee.....	10.00	11.00	1.65	6.00	24.80
883	Manufacturer's sample.....	10.83	11.73	1.72	6.03	26.69
	Raw Bone Meal—guarantee.....		22.00	3.70		27.22
881	Manufacturer's sample.....		24.15	3.68		28.89
	Standard Cotton Special—guarantee.....	8.00	9.00	1.65	2.00	17.61
886	Manufacturer's sample.....	8.03	8.98	1.68	2.41	18.25
	Tuscarora Monarch—guarantee.....	9.00	10.00	2.47	3.00	22.80
884	Manufacturer's sample.....	9.68	10.98	2.55	3.30	24.25
	Vegetable Special—guarantee.....	8.00	9.00	3.29	7.00	29.18
887	Manufacturer's sample.....	9.15	10.05	3.51	7.00	31.31
	Virginia-Carolina Chemical Co., Shreveport, La.—					
	Bright Leaf Tobacco Grower—guarantee.....	7.00	9.00	2.06	10.00	27.40
110	Manufacturer's sample.....	7.05	8.35	2.54	10.34	29.51
	Capital Bone and Potash Compound—guarantee.....	10.00	12.00		2.00	14.40
350	Manufacturer's sample.....	12.90	14.60		2.27	18.20
	German Kainit—guarantee.....				12.00	14.40

Analyses of Commercial Fertilizers, Season of 1907-08—continued.

Laboratory Number.	Manufacturer, Place of Business, and Brand.	Phosphoric Acid.		Nitrogen—Per Cent.	Potash—Per Cent.	Valuation.
		Available—Per Cent.	Total—Per Cent.			
	Virginia-Carolina Chem. Co., Shreveport, La.—continued.					
1853	Manufacturer's sample.....				12.93	\$ 15.50
2066	Inspector's sample.....				12.10	14.52
2169	Inspector's sample.....				12.32	14.78
	Mobile Double Eagle Guano—guarantee.....	10.00	12.00	1.65	1.50	19.41
1859	Manufacturer's sample.....	11.10	12.20	1.98	1.83	22.25
	Muriate of Potash—guarantee.....				48.00	57.60
1852	Manufacturer's sample.....				50.10	60.12
	Royal Acid Phosphate—guarantee.....	12.00	14.00			14.40
1863	Manufacturer's sample.....	12.50	15.98			15.00
2117	Inspector's sample.....	11.18	14.95		.74	14.31
	Royal Blood, Bone and Potash—guarantee.....	10.00	12.00	1.65	1.50	19.41
1854	Manufacturer's sample.....	11.12	13.25	2.42	2.06	24.04
2140	Inspector's sample.....	9.80	11.85	1.82	1.92	20.25
	Royal Compound—guarantee.....	10.00	12.00		2.00	14.40
1851	Manufacturer's sample.....	13.28	15.13		1.99	18.33
2120	Inspector's sample.....	10.13	12.35		2.15	14.74
	Royal Cotton Boll Guano—guarantee.....	8.00	10.00	1.65	2.00	17.61
1862	Manufacturer's sample.....	8.95	11.80	2.16	2.81	21.45
2118	Inspector's sample.....	8.27	9.95	2.32	2.35	20.63
2170	Inspector's sample.....	12.15	13.05	1.44	1.41	21.17
	Royal Fruit Grower—guarantee.....	8.00	10.00	2.47	5.00	24.00
1864	Manufacturer's sample.....	9.38	10.58	2.92	5.46	27.74
2042	Inspector's sample.....	8.55	10.37	2.36	3.52	22.50
2137	Inspector's sample.....	7.43	8.82	2.80	2.11	20.97
	Royal High Grade Guano—guarantee.....	10.00	12.00	1.65	1.50	19.41
1855	Manufacturer's sample.....	11.15	13.00	2.32	2.09	23.78
2032	Inspector's sample.....	10.60	12.65	2.32	1.86	22.84
2073	Inspector's sample.....	8.57	10.32	1.82	2.96	20.02
	Royal Potash Compound—guarantee.....	10.00	12.00		4.00	16.80
1866	Manufacturer's sample.....	11.95	14.15		4.03	19.18
2004	Inspector's sample.....	8.25	10.05		4.28	15.04
	Royal Tomato Formula—guarantee.....	10.00	12.00	2.47		20.40
1937	Manufacturer's sample.....	10.40	13.90	2.69	.17	21.83
	Royal Vegetable Fertilizer—guarantee.....	8.00	10.00	2.47	4.00	22.80
1860	Manufacturer's sample.....	8.48	10.93	2.46	4.54	23.99
2068	Inspector's sample.....	10.12	12.05	2.31	2.60	23.11
	Scott's Gossypium Phospho—guarantee.....	10.00	12.00	1.65	1.50	19.41
1858	Manufacturer's sample.....	11.05	12.25	2.04	1.96	22.55
2165	Farmer's sample.....	9.82	10.90	1.88	1.77	20.29
2171	Farmer's sample.....	11.82	14.02	.38	1.90	17.75
2070	Inspector's sample.....	9.37	10.70	2.36	1.58	21.16
2099	Inspector's sample.....	8.54	10.94	1.62	1.72	17.82
2119	Inspector's sample.....	9.34	11.55	2.17	1.21	20.04
	Scott's Gossypium Phospho, Special—guarantee.....	10.00	12.00	1.65	2.00	2.01
1861	Manufacturer's sample.....	11.02	12.25	1.88	2.50	22.61
2051	Inspector's sample.....	9.27	11.60	1.73	1.59	18.91
2128	Inspector's sample.....	9.70	11.60	1.88	1.94	20.36
	Scott's High Grade Acid Phosphate—guarantee.....	14.00	16.00			16.80
1856	Manufacturer's sample.....	15.10	17.30			18.12
2146	Inspector's sample.....	12.14	14.55			14.57
2129	Inspector's sample.....	12.10	15.10			14.52
2005	Inspector's sample.....	13.05	14.95			15.66
2065	Inspector's sample.....	14.05	15.80			16.86
2083	Inspector's sample.....	12.15	13.85			14.58
	Scott's State Standard Guano—guarantee.....	8.00	10.00	1.65	2.00	17.61
1857	Manufacturer's sample.....	9.23	10.58	1.94	1.99	20.07
	V-3-C Fruit and Truck Special—guarantee.....	6.00	8.00	3.30	8.00	28.02
1867	Manufacturer's sample.....	7.65	8.68	3.58	8.46	31.53
	V. C. High Grade Top Dresser—guarantee.....	4.00	8.00	6.17	2.50	28.78
1938	Manufacturer's sample.....	4.40	5.25	6.24	3.49	30.69
	V. C. Tomato Special—guarantee.....	10.00	12.00	2.47	1.50	22.20
1936	Manufacturer's sample.....	11.10	14.10	2.50	2.80	25.18
2003	Inspector's sample.....	8.77	20.77	1.88	1.79	24.94
2028	Inspector's sample.....	9.45	11.45	3.12	2.19	24.94
2138	Inspector's sample.....	9.61	11.28	2.76	1.82	23.06
	V. C. C. Co.'s Truck Grower—guarantee.....	8.00	10.00	2.06	6.00	23.86
1865	Manufacturer's sample.....	8.80	11.15	2.53	6.01	26.37
1974	Farmer's sample.....	10.55	11.65	2.52	4.75	27.13
2001	Inspector's sample.....	9.20	11.30	2.38	6.00	26.33
2019	Inspector's sample.....	9.50	12.10	2.36	5.05	25.48
2105	Inspector's sample.....	9.55	11.60	2.16	4.86	24.63
	Geo. A. Wright, Palestine, Texas—					
	Wright's Cotton and Corn Grower—guarantee.....	9.21	9.56	2.	1.68	23.11
1900	Manufacturer's sample.....	9.21	9.56	2.50	1.68	23.11