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Analyses of commercial fertilizers on sale in the state

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MISSISSIPPI AGRICULTURAL EXPERIMENT STATION

BULLETIN No. 68.

Analyses of Commercial Fertilizers on Sale
In the State.



CHEMICAL LABORATORY.

AGRICULTURAL COLLEGE, MISS

SEPTEMBER 1ST, 1901.

Clarion-Ledger Print, Jackson, Miss.

Mississippi Fertilizer CONTROL.

INSPECTION AND ANALYSES OF FERTILIZERS,
BY THE CHEMICAL DEPARTMENT
OF THE

Mississippi Agricultural & Mechanical College

W. F. HAND, STATE CHEMIST.

J. S. CARROLL, ASSISTANT CHEMIST.

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This Bulletin contains the analyses of the principal brands of commercial fertilizer that have been found on the Mississippi markets during the season of 1900-1901. The samples were drawn by the regular fertilizer inspector, and, in view of the care with which this work has been done, it is believed that the analyses represent fairly the chemical composition and comparative value of the goods as bought by the dealers and farmers of the State.

NOTE—The inspection of commercial fertilizers is by law done under the supervision of the Professor of Chemistry at the College, who is State Chemist. The results being considered of agricultural value are sent out by the Experiment Station. All communications in regard to the Bulletins or analyses should be addressed to State Chemist.

The limited number of brands offered for sale at the present time has made a thorough inspection possible, quite a large number of samples sold under the same brand name being analyzed. In every case where three or more samples are given the *average* analysis and relative commercial value have been calculated. The averages are set in bold type, and, for convenience, the guarantees of the manufacturer are printed in italics immediately below. A comparison can be made, therefore, at a glance. Some of the more important brands have received especial attention, and the average of fifteen or twenty analyses should, without doubt, establish a record for the season for that brand. By this procedure the effect of accidental variations and errors is reduced to a minimum. Those who intend to purchase fertilizers during the fall and spring should examine the results carefully. In so far as fertilizers are concerned, there is certainly more in an analysis than in a name. Good analyses, have built up, and will always build up reputations of worth for the name of the brand and manufacturer.

GENERAL CHARACTER OF BUSINESS.

An inspection of the tables of analyses and guarantees will show that, as a general rule, the fertilizers sold last season have fully sustained the claims made by the manufacturers. A few samples, however, have only approximated the guaranteed analysis and some have fallen somewhat below it. All manufacturers doing business in our State have cheerfully complied with every requirement of the fertilizer law, and they have generally offered only honest goods.

SAMPLES ANALYZED FREE OF CHARGE.

The State Chemist is required by law to analyze *free of charge* all fair samples of fertilizers properly certified and prepared that may be submitted to him by farmers and other purchasers.

In order that the certificate of analysis of the State

Chemist may be of value as evidence of the percentage of the valuable elements contained in a fertilizer, it is necessary that the sample be a *fair* one, properly certified and prepared. The purpose of the law is to secure fair dealing on the part of all concerned in the purchase and sale of an article, the value of which can only be ascertained by chemical analysis. Blank forms of certificate that must accompany samples sent for analysis will be promptly forwarded on application. These blanks contain specific directions for properly sampling any lot of goods, and they must always be filled out and signed by the person sending the sample, and signed also by two witnesses, who must be disinterested parties, before a certificate of analysis can be given. Dealers and farmers are encouraged to forward samples of their goods for examination; the work will be done as promptly as possible.

FERTILIZER VALUATIONS.

The elements of commercial value contained in any fertilizer, viz: Phosphoric acid, in its several forms, nitrogens, and potash, have a definite value in the markets; they are worth so much per pound. The raw materials used by manufacturers in preparing their various mixtures are bought by them on the basis of the percentage of these elements carried by the various substances accessible. The value of the mixed fertilizer can, therefore, be found by simple calculation. It is evident that the value of mixed fertilizers and acid phosphates is measured by the cost of the raw materials plus the cost of manipulation, freight, commissions, etc.

A chemical analysis shows the number of pounds and fractions of a pound of the various forms of phosphoric acid, nitrogen, and potash contained in one hundred pounds of the mixture. If the price per pound is known, the value of one hundred pounds, and, consequently, of a ton, can be found at once.

The relative commercial values given in the tables are used for comparison only; *they are not intended to establish a*

selling price or to represent the crop producing power. This method of comparing one brand with another is justified only by the fact that many purchasers do not fully understand the terms used in stating the analyses.

All values contained in this bulletin are calculated on the basis of the following prices per pound of the essential elements :

	Per Pound.
For Nitrogen	16 $\frac{1}{4}$ cents
For Potash	5 cents
For Water-Soluble Phosphoric Acid	5 $\frac{1}{2}$ cents
For Citrate-Soluble Phosphoric Acid	5 cents
For Phosphoric Acid in fine bone	3 cents
For Phosphoric Acid in medium and coarse bone	2 $\frac{1}{2}$ cents

Laboratory Num'r.	Name of Brand and Manufacturer.	Where and From Whom Collected.
	ARMOUR PACKING CO., Kansas City, Mo.	
1766	Helmet Br'nd Fer. No. 271	Canton Cotton W'house Co., Canton.
1883	"	"
1993	"	Fowler & Fowler, McCool.....
2008	"	Barney, Johns & Co., Gloster.....
2085	"	E. M. Carter & Co., Centreville....
2086	"	R. W. Fagan & Co., Waynesboro...
2087	"	W. L. Bourland, Amory.....
		Average
		Guarantee
1985	Helmet Br'nd Fer. No. 281	C. W. Young, Ripley.....
		Guarantee.....
2064	Helmet Br'nd Fer. No. 285	J. A. Mehaffey, Steens
		Guarantee
1984	African Cotton Grower...	W. L. Bourland, Amory.....
		Guarantee
	A. D. ADAIR & MC- CARTY BROS. Atlanta, Ga.	
1887	Furman's H.G. Dis. Bone.	J. F. Walker, Iuka.....
		Guarantee.....
1888	Farish Furman Formula..	J. F. Walker, Iuka.....
1987	"	Thomas Blakney, Burnsville.....
		Guarantee.....
	BIRMINGHAM FERT. CO. Birmingham, Ala.	
1891	Birmingham H. G. Fert..	Myers & Egger, Caledonia.....
1892	"	Gilmore & May, Amory
		Guarantee
1974	Bi'm'gham H.G. AcidPhos	Gilmore & May, Amory
		Guarantee.....
	SOLD BY ELUMENFELD & FRIED, Ackerman. Miss.	
1907	Blumenfeld & Fried's Im- proved Mixture	Blumenfeld & Fried, Ackerman ...
2019	Blumenfeld & Fried's Im- proved Mixture.....	" "
		Average
		Guarantee
	CANTON COTTON WARE- HOUSE CO., Canton, Miss.	
1848	Acid Phosphate.....	Canton Cotton W'house Co., Canton.

Laboratory Num'r.	Moisture—Per cent.	Phosphoric Acid—Per Cent.				Nitrogen—Per cent.	Potash—Per cent.	Relative Value per ton.
		Water—soluble	Citrate—soluble.	Available.	Insoluble.			
1766	5.48	2.12	5.76	7.88	2.28	1.65	1.58	15.04
1883	5.00	1.68	6.77	8.45	1.88	1.60	1.48	15.30
1993	6.82	1.30	6.90	8.20	2.24	1.97	1.40	16.13
2008	11.90	1.51	7.13	8.64	2.25	2.00	1.47	16.76
2085	4.59	1.55	6.97	8.52	1.62	1.72	1.33	15.60
2086	6.34	1.24	6.30	7.54	2.26	1.84	1.61	15.25
2087	6.08	1.37	7.15	8.52	2.11	2.10	1.43	16.91
	6.60	1.54	6.71	8.25	2.09	1.84	1.47	15.85
		<i>5.00</i>	<i>2.00</i>	<i>7.00</i>	<i>1.50</i>	<i>1.50</i>	<i>1.00</i>	<i>13.38</i>
1985	6.51	2.55	7.04	9.59	2.74	1.94	1.26	17.41
		<i>5.00</i>	<i>3.00</i>	<i>8.00</i>	<i>1.50</i>	<i>1.65</i>	<i>1.00</i>	<i>14.86</i>
2064	3.49	2.75	6.77	9.52	1.91	1.70	5.96	21.28
		<i>5.00</i>	<i>3.00</i>	<i>8.00</i>	<i>1.50</i>	<i>1.65</i>	<i>5.00</i>	<i>18.86</i>
1984	6.03	3.40	6.15	9.55	3.94	2.64	3.41	21.88
		<i>5.00</i>	<i>4.00</i>	<i>9.00</i>	<i>1.00</i>	<i>2.50</i>	<i>3.00</i>	<i>20.63</i>
1887	12.35	11.26	2.36	13.62	.72	.....	.....	14.75
		<i>9.00</i>	<i>3.00</i>	<i>12.00</i>	<i>2.00</i>	.....	.....	<i>12.90</i>
1888	9.52	9.04	3.18	12.22	.70	.....	1.74	14.86
1987	10.85	7.57	2.96	10.53	1.36	.....	1.98	13.27
		<i>7.00</i>	<i>3.00</i>	<i>10.00</i>	<i>2.00</i>	.....	<i>2.00</i>	<i>12.70</i>
1891	15.35	11.81	1.03	12.84	.77	1.88	2.91	23.04
1892	13.98	8.84	3.60	12.44	2.10	1.62	2.61	21.20
		<i>8.00</i>	<i>2.00</i>	<i>10.00</i>	<i>2.00</i>	<i>1.64</i>	<i>2.00</i>	<i>18.13</i>
1974	13.84	12.11	2.55	14.66	.65	.....	.....	15.87
		<i>12.00</i>	<i>2.00</i>	<i>14.00</i>	<i>2.00</i>	.....	.....	<i>15.20</i>
1907	12.66	7.09	2.48	9.57	1.28	1.77	2.09	18.12
2019	12.13	7.89	2.51	10.40	1.73	1.66	1.81	18.40
	12.39	7.49	2.49	9.98	1.51	1.72	1.95	18.26
		<i>7.50</i>	<i>2.00</i>	<i>9.50</i>	<i>1.00</i>	<i>1.75</i>	<i>1.75</i>	<i>17.69</i>
1848	13.15	13.62	2.60	16.22	2.70	.....	.....	17.58

Laboratory Num'r.	Name of Brand and Manufacturer.	Where and From Whom Collected.
1915	Acid Phosphate	Canton Cotton W'house Co., Canton. Average
	CAPITAL FERT. & MFG. CO Jackson, Miss.	Guarantee
1767	H. G. Acid Phosphate ...	Capital Fert. and M'fg Co., Jackson
1768	"	Collins Bros., Magnolia.....
1815	"	Capital Fert. and M'fg Co., Jackson
1864	"	W. C. Ellis, Steen's Creek.....
1933	"	Blumenfeld & Fried, Ackerman...
2133	"	W. H. Barron & Co., Crystal Spr'gs Average
		Guarantee
1771	Nonpareil	Becker, Lyell & McGrath, Wesson.
1772	"	Capital Fert. and M'fg Co., Jackson
1860	"	E. H. Walker, Mount Olive.....
1861	"	W. C. Ellis, Steen's Creek.....
1931	"	J. R. Bush, Braxton.....
1932	"	Blumenfeld & Fried, Ackerman ...
1934	"	Lampton Mercantile Co., Magnolia.
1951	"	Stingley, Taylor & Co., Pelahatchie
1973	"	Lampton Mercantile Co., Magnolia.
2015	"	Moore Bros., Morton.
2020	"	Gaddis & McLaurin, Bolton.....
2137	"	Ford Bros., Centreville.....
2138	"	Daniel & Zwirn, Brookhaven.
2139	"	W. J. Davis, Terry.....
2140	"	A. L. Hoye, Lake
2141	"	W. H. Barron & Co., Crystal Spr'gs.
2142	"	J. L. Moyse & Bro., Summit
2143	"	A. E. Kelly, Kosciusko.....
2144	"	M. J. L. Hoye's Son, Newton
2145	"	Thompson & Son, Brandon.....
2146	"	G. H. Banks, Forest.....
		Average
		Guarantee
1862	Red Star Brand.....	S. Alcus, Summit
1950	"	W. C. Ellis, Magee.....
1994	"	G. W. Winters, McCool
2050	"	J. D. Gambrell, Taylorsville
2135	"	McMullen & Bolton, Newton.....
2136	Red Star Brand.....	M. L. Brumfield, D'Lo.....
		Average
		Guarantee
1972	Mississippi Guano.....	Howie Bros., Morton.....

Laboratory Num'r.	Moisture—Per cent.	Phosphoric Acid—Per Cent.				Nitrogen—Per cent.	Potash—Per cent.	Relative Value per ton.
		Water—soluble.	Citrate—soluble.	Available.	Insoluble.			
1915	13.17	14.25	2.69	16.94	2.14	.....	.....	18.37
	13.16	13.93	2.65	16.58	2.42	.....	.....	17.97
		<i>13.00</i>	<i>2.00</i>	<i>15.00</i>	<i>1.00</i>	.....	.....	16.30
1767	13.65	10.80	5.22	16.02	1.66	.....	.....	17.10
1768	9.62	8.01	4.01	12.02	1.13	.....	.....	12.82
1815	10.66	7.02	4.98	12.00	1.34	.....	.....	12.70
1864	9.90	7.56	4.28	11.84	1.30	.....	.....	12.60
1933	9.82	7.78	5.08	12.86	.87	.....	.....	13.64
2133	9.27	6.75	4.96	11.71	1.41	.....	.....	12.39
	10.49	7.99	4.75	12.74	1.28	.....	.....	13.54
		<i>10.00</i>	<i>2.00</i>	<i>12.00</i>	<i>1.00</i>	.....	.....	<i>13.00</i>
1771	11.25	6.10	2.21	8.31	1.23	1.57	2.05	16.07
1772	11.52	5.43	3.25	8.68	.51	1.56	2.28	16.57
1860	11.85	6.51	2.41	8.92	1.37	1.17	1.72	15.09
1861	13.50	5.96	3.39	9.35	.45	1.35	2.19	16.52
1931	10.72	6.10	3.67	9.77	.91	1.64	1.92	17.63
1932	12.10	5.88	3.32	9.20	.88	1.56	2.16	17.02
1934	9.58	6.14	3.57	9.71	.91	1.68	2.23	18.01
1951	9.97	6.74	4.12	10.86	.67	1.42	2.02	18.17
1973	12.42	5.83	3.15	8.98	1.04	1.46	2.14	16.45
2015	13.08	6.81	2.10	8.91	.86	1.53	2.12	16.68
2020	11.93	6.42	2.79	9.21	.72	1.84	2.22	18.05
2137	10.12	6.20	3.62	9.82	.96	1.38	2.07	17.00
2138	11.21	6.69	2.70	9.39	.88	1.69	2.22	17.77
2139	13.77	5.44	3.10	8.54	.75	1.46	2.15	15.98
2140	11.46	7.20	2.42	9.62	1.02	1.53	2.09	17.40
2141	12.30	6.05	3.14	9.19	1.00	1.25	2.08	15.89
2142	13.86	6.03	3.52	9.55	1.09	1.36	1.90	16.47
2143	14.10	5.60	3.20	8.80	.97	1.56	2.09	16.51
2144	12.22	6.04	3.01	9.05	.90	1.51	2.10	16.66
2145	10.54	6.49	3.06	9.55	.96	1.54	2.01	17.21
2146	11.57	6.08	3.59	9.67	1.01	1.41	2.01	16.87
	11.90	6.18	3.11	9.29	.91	1.50	2.08	16.86
		<i>7.00</i>	<i>2.00</i>	<i>9.00</i>	<i>1.00</i>	<i>1.50</i>	<i>2.00</i>	<i>16.58</i>
1862	12.06	5.91	3.34	9.25	.92	1.46	2.17	16.76
1950	9.62	6.20	3.54	9.74	.77	1.59	2.32	17.85
1994	11.78	5.13	3.51	8.64	.36	1.92	2.31	17.70
2050	10.98	6.75	3.43	10.18	1.05	1.67	2.34	18.62
2135	14.03	7.16	3.52	10.68	.99	2.17	2.14	20.59
2136	10.67	6.24	3.51	9.75	1.06	1.41	2.05	17.00
	11.52	6.23	3.48	9.71	.86	1.70	2.22	18.08
		<i>7.00</i>	<i>2.00</i>	<i>9.00</i>	<i>1.00</i>	<i>1.50</i>	<i>2.00</i>	<i>16.53</i>
1972	10.71	6.19	3.68	9.87	1.01	1.38	2.01	16.98

Laboratory Num'r.	Name of Brand and Manufacturer.	Where and From Whom Collected.
2134	Mississippi Guano.....	Max Priebatsch, Brookhaven..... Average
1863	Our Vegetable Grower ...	J. C. Harvey, Gallman
1998	Producer Brand	E. F. Webb & Co., Summit..... Guarantee
2034	Kainit.....	Lilly & Dunn, Summit..... Guarantee
	CONTINENTAL FERT CO. Nashville, Tenn.	
1886	Eddystone Sol. Guano....	J. F. Walker, Iuka.
1908	"	J. D. Carr, Ackerman
2071	"	T. W. Pylant & Bro., Purvis
2072	"	J. A. Mehaffey, Steens
		Average
		Guarantee
1942	Sunny South Acid Phos..	T. W. Pylant & Bro., Purvis.....
1978	"	J. A. Mehaffey, Steens.....
2018	"	J. D. Carr, Ackerman.....
2070	"	J. F. Walker, Iuka.
		Average
		Guarantee
	EAGLE COTTON OIL CO., Meridian, Miss.	
2083	Eagle H G. Acid Phos....	Eagle Cotton Oil Co., Meridian....
2084	"	S. H. Floyd, Shubuta.....
		Average
		Guarantee
	HAZLEHURST OIL MILL AND FERTILIZER CO. Hazlehurst, Miss.	
1814	Acid Phosphate.....	H'hurst Oil Mill & Fer. Co., H'hurst Guarantee.....
1996	Imperial Fertilizer.....	Wilburn Bros., Pickens
2005	"	H'hurst Oil Mill & Fer. Co., H'hurst
2021	"	Smith & Decell, Wesson.
2082	"	Lotterhos & Huber, Crystal Springs Average
		Guarantee
2037	Kainit.....	J. R. Gillaspay, Crystal Springs..... Guarantee
	JACKSON FERTILIZER CO. Jackson, Miss.	
1882	H. G. Acid Phosphate ...	W. H. Chambliss & Son, Newton ...
1975	"	R. D. J. Smith, Centreville.....

Laboratory Num'r.	Moisture—Per cent.	Phosphoric Acid—Per Cent.				Nitrogen—Per cent.	Potash—Per cent.	Relative Value per ton.
		Water—soluble	Citrate—soluble	Available.	Insoluble.			
2134	11.03	5.33	3.60	8.93	.69	1.62	2.42	17.15
	10 87	5.76	3.64	9.40	.85	1.50	2.21	17 06
		7.00	2.00	9.00	1.00	1.50	2.00	16.58
1863	10.48	5.54	3.35	8.89	.87	2.57	2.61	20.41
		6.00	2.00	8.00	1.00	2.25	3.50	19.41
1998	11.55	5.65	3.31	8.96	.37	1.83	2.29	17.76
		7.00	2.00	9.00	1.00	1.50	2.00	16.58
2034	3.49	.....	.....	.....	.....	.....	12.55	12.55
		.....	.....	.....	.....	.....	12.00	12.00
1886	10 58	7.94	3.99	11.93	4.04	1.10	.81	17.11
1908	9.96	6.86	3.18	10.04	3.70	1.66	1.28	17.40
2071	9.17	6.84	3.78	10.62	3.35	1.66	1.15	17.85
2072	8.07	6 17	4.45	10.62	3.21	1.58	1.05	17.42
	9 44	6.95	3.85	10.80	3 57	1.50	1.07	17.44
		7.00	2.00	9.00	1.00	1.65	1.00	16.06
1942	10.24	9 52	4.19	13.71	3 02	.....	.....	14.66
1978	10.70	10.72	3.44	14.16	4.09	.....	.....	15.23
2018	9.05	9 45	3.78	13.23	1.96	.....	.....	14.18
2070	11.21	11.28	3.14	14.42	4.73	.....	.....	15.55
	10.30	10 24	3.64	13.88	3.45	.....	.....	14 90
		11.00	2.00	13.00	1.00	.....	.....	14.10
2083	9.95	11.82	2.84	14.66	1.39	.....	.....	15.84
2084	13.45	12.03	2.72	14.75	1.80	.....	.....	15.95
	11.70	11.92	2.78	14.70	1.59	.....	.....	15.89
		11.00	2.25	13.25	.75	.....	.....	14.35
1814	14.12	12.46	2.84	15.30	3.24	.....	.....	16 55
		12.00	2.00	14.00	1.00	.....	.....	15 20
1996	11.00	7.61	2.88	10.49	2 43	1.84	1.93	19.16
2005	11.04	7.32	2.94	10.26	2.38	1.92	1.78	19.01
2021	11.15	7.45	3.06	10.51	2.10	1.71	2.11	18.92
2082	10.60	7.78	2.64	10.42	2.02	1.96	1.83	19.40
	10.95	7.54	2.88	10.42	2.23	1.86	1 91	19 12
		7.00	2.00	9.00	1.00	1 65	1.75	16.81
2037	4 27	.....	.....	.....	.....	.....	11.65	11.65
		.....	.....	.....	.....	.....	12.00	12.00
1882	11 27	9.58	3.54	13.12	1.92	.....	.....	14.08
1975	11.18	8.66	4.95	13 61	2.12	.....	.....	14.48

Laboratory Numbr.	Name of Brand and Manufacturer.	Where and From Whom Collected.
1976	H. G. Acid Phosphate...	N. B. Gilliland & Co., Kosciusko...
2017	" " "	" " "
2023	" " "	Irving & Torbert, Wiers.....
2124	" " "	T. M. Heidelberg, Heidelberg.....
2125	" " "	T. M. Steele, Forest.....
		Average.....
		Guarantee.
1773	Royal C Brand.....	Canton Cotton Wareh'e Co., Canton
1774	" "	H. E. Strahan, Hazlehurst.....
1809	" "	C. Atkinson Sons Co., Summit.....
1835	" "	J. P. Myer, Ellisville
1846	" "	Canton Cotton Wareh'e Co., Canton
1879	" "	J. M. Stephenson, Morton
1880	" "	Johnson-Woodward Co., Mt. Olive..
1922	" "	Turner & Taylor, Hattiesburg.....
1923	" "	F. M. Brooks, Weathersby.....
1926	" "	I. W. Lampton & Bro, Columbia...
1927	" "	Barney, Johns & Co., Gloster.....
2052	" "	A. C. Seavy, Brookhaven.....
2053	" "	H A. Busick, Brandon
2126	" "	Sherman & Davis, Brookhaven.....
2127	" "	M. D. Graham & Co., Forest.....
2128	" "	Simpson Mer. Co., Terry.....
2129	" "	Blackston Mer. Co., Winona.....
2130	" "	Lotterhos & Huber, Crystal Springs
2131	" "	R. D. J. Smith, Centreville
2132	" "	Stingley, Taylor & Co, Pelahatchie
		Average.....
		Guarantee.....
1881	Vegetable and Fruit.....	Lottheros & Huber, Crystal Springs
		Guarantee
2033	Kainit.....	Wm. Atkinson & McDonald, Wesson
		Guarantee.....
	LOUISVILLE FERT. CO., Louisville, Ky.	
1847	Eagle Bone and Potash...	N. B. Langford, Canton.....
		Guarantee.....
	KOSCIUSKO OIL MILL AND FERT. CO., Kosciusko, Miss.	
1912	H. G. Acid Phosphate...	Potts-Jackson Co., Kosciusko.....
2013	" " "	" " "
2014	" " "	" " "
2043	" " "	" " "
		Average
		Guarantee.....

Laboratory Numb'r.	Moisture—Per cent.	Phosphoric Acid—Per Cent.				Nitrogen—Per cent.	Potash—Per cent.	Relative Value per ton.
		Water—soluble	Citrate—soluble	Available.	Insoluble.			
1976	11.46	9.89	3.25	13.14	2.38		14.13	
2017	10.93	9.68	3.45	13.13	2.29		14.10	
2023	10.58	9.20	3.73	12.93	2.19		13.85	
2124	11.08	8.39	5.66	14.05	1.43		14.89	
2125	11.10	8.61	5.39	14.00	1.28		14.86	
	11.08	9.14	4.28	13.42	1.94		14.34	
		<i>10.00</i>	<i>2.00</i>	<i>12.00</i>	<i>1.00</i>		<i>13.00</i>	
1773	15.54	5.96	3.37	9.33	.32	1.52	2.04	16.91
1774	12.70	5.53	2.92	8.45	1.27	1.44	1.85	15.53
1809	9.23	6.55	2.50	9.05	1.24	1.71	1.88	17.14
1835	10.85	6.59	2.28	8.87	1.72	1.60	1.86	16.59
1846	13.33	5.94	3.85	9.79	.27	1.55	2.10	17.52
1879	10.00	6.51	2.79	9.30	1.48	1.59	1.90	17.02
1880	10.22	6.87	1.93	8.80	1.75	1.52	1.97	16.40
1922	10.53	7.07	2.39	9.46	1.64	1.61	2.07	17.47
1923	10.48	6.45	2.33	8.78	1.79	1.67	1.93	16.79
1926	9.55	6.40	2.73	9.13	1.32	1.64	2.05	17.15
1927	9.51	6.14	2.77	8.91	1.34	1.76	1.97	17.21
2052	10.11	6.77	2.72	9.49	1.15	1.70	1.99	17.68
2053	9.82	7.00	2.80	9.80	1.20	1.74	2.06	18.22
2126	9.70	6.01	3.64	9.65	.43	1.71	2.03	18.84
2127	10.87	6.74	2.10	8.84	1.66	1.56	1.91	16.49
2128	11.06	6.97	2.25	9.22	1.42	1.79	1.82	16.55
2129	9.72	6.67	2.27	8.94	.60	1.72	1.92	17.12
2130	10.48	6.14	2.93	9.07	1.32	1.71	2.01	17.25
2131	9.10	7.06	2.57	9.63	.90	1.72	1.97	17.90
2132	10.57	6.40	3.94	10.34	1.92	1.78	2.19	18.96
	10.66	6.49	2.75	9.24	1.24	1.65	1.98	17.24
		<i>6.00</i>	<i>1.60</i>	<i>7.60</i>	<i>1.00</i>	<i>1.55</i>	<i>1.80</i>	<i>15.04</i>
1881	9.25	4.99	1.98	6.97	1.28	3.18	4.43	22.23
		<i>3.00</i>	<i>3.00</i>	<i>6.00</i>	<i>1.00</i>	<i>3.00</i>	<i>4.00</i>	<i>20.05</i>
2033	4.54						12.16	12.16
							<i>12.00</i>	<i>12.00</i>
1847	10.05	4.99	6.00	10.99	7.61		1.80	13.29
		<i>8.00</i>	<i>2.00</i>	<i>10.00</i>	<i>1.00</i>		<i>2.00</i>	<i>12.80</i>
1912	11.22	9.08	3.14	12.22	4.78			13.13
2013	10.07	11.87	2.83	14.70	4.60			15.89
2014	11.08	11.32	2.87	14.19	5.86			15.32
2043	9.48	11.55	2.94	14.49	5.27			15.65
	10.46	10.95	2.95	13.90	5.13			15.00
		<i>11.00</i>	<i>2.00</i>	<i>13.00</i>	<i>1.00</i>			<i>14.10</i>

Laboratory Num'r.	Name of Brand and Manufacturer.	Where and From Whom Collected.
	SOLD BY MARBACH & EAGAN, Crystal Springs, Miss	
2004	Bat Guano.....	Lotterhos & Huber, Crystal Springs
2030	“	I. M. Eagan, Crystal Springs
	MERIDIAN FERT. FACT'RY Meridian, Miss.	Guarantee
1919	Meridian Eng. Acid Pho.	J. W. McKay, Waynesboro
1956	“	F. W. Bransby, Macon
2031	“	N. P. Welborn & Co., Laurel
2202	“	Fernwood Lumber Co., Fernwood...
2203	“	T. B. Gaddis, Morton.....
2204	“	McGehee & Causey, Gloster
		Average.....
		Guarantee.....
1808	Meridian So. Acid Phos..	T. C. Edwards, Shuqualak.....
1876	“	J. L. Miller, Gallman.
1877	“	Rew & McClinton, Newton.....
1960	“	W. W. Harris, Iuka.....
2205	“	R. E. Dear, Enterprise.....
2206	“	Mohler Bros., Mount Olive.....
		Average
		Guarantee ..
1764	Meridian Home Mixture..	J. McGrath & Sons, Brookhaven...
1787	“	R. Watts & Co, Seminary
1788	“	Patrick & Franklin, Magee.....
1843	“	McClain & Ratcliff, Gloster... ..
1844	“	McLeod-Kennedy Co., Hattiesburg.
1845	“	G. H. Rankin, Columbia.....
1916	“	Sandersville Mer'tile Co., Sandersv.
1918	“	W. L. Weems, Shubuta
1920	“	J. M. Gann, Poplarville
1921	“	G. R. Edwards, McCool.
1948	“	Holloway & McRaney, Collins.....
1958	“	Hitt, Hart & Blackston, Winona ...
1959	“	W. A. Abrams, Baldwyn.....
2010	“	J. H. Williams, Bolton
2051	“	McClain & Ratcliff, Gloster.....
2207	“	Ross Bros., Pelahatchie
2208	“	Mathis & Cates, Corinth.....
2209	“	W. H. Gillaspay, Hickory
2210	“	W. B. Richardson, Newton.....
2211	“	B. F. Harris, State Line
2212	“	J. S. Eaton & Bro., Taylorsville....
2213	“	Johnson-Hand Co., Ellisville.....
2214	“	I. N. Varnado, Osyka.....

Laboratory Num'r.	Moisture—Per cent.	Phosphoric Acid—Per Cent.				Nitrogen—Per cent.	Potash—Per cent.	Relative Value per ton.
		Water—soluble.	Citrate—soluble.	Available.	Insoluble.			
2004	28.40	.....	.....	.....	8.19	4.60	.67	19.72
2030	21.34	.....	.....	.....	8.00	4.58	.53	19.42
					5.00	4.25	.65	16.96
1919	15.85	9.93	4.73	14.66	1.14	.....	.....	15.65
1956	14.38	11.19	3.12	14.31	3.04	.....	.....	15.43
2031	14.11	10.34	3.61	13.95	2.21	.....	.....	14.98
2202	13.45	10.94	4.55	15.49	1.06	.....	.....	16.58
2203	13.73	10.04	3.97	14.01	1.22	.....	.....	15.01
2204	12.40	10.11	5.60	15.71	1.22	.....	.....	16.72
	13.99	10.43	4.26	14.69	1.65	.....	.....	15.73
	.....	10.00	2.00	12.00	.50	.....	.....	13.00
1808	13.95	10.77	4.22	14.99	1.10	.....	.....	16.07
1876	17.90	10.69	3.56	14.25	.77	.....	.....	15.32
1877	15.63	11.39	3.24	14.63	1.02	.....	.....	15.77
1960	14.92	9.25	5.02	14.27	1.62	.....	.....	15.20
2205	13.97	10.30	5.14	15.44	1.28	.....	.....	16.47
2206	12.67	12.56	3.54	16.10	.69	.....	.....	17.36
	14.84	10.83	4.12	14.95	1.08	.....	.....	16.03
	.....	12.00	2.00	14.00	.75	.....	.....	15.20
1764	12.21	6.72	2.57	9.29	.82	1.80	2.40	18.21
1787	13.06	7.13	3.53	10.66	.67	1.40	2.14	18.06
1788	12.49	6.84	3.54	10.38	.83	1.54	2.26	18.33
1843	16.36	6.20	2.35	8.55	.35	2.02	2.36	18.07
1844	13.57	7.46	2.51	9.97	.69	1.68	2.13	18.31
1845	17.09	6.64	2.15	8.79	.37	1.90	2.24	17.87
1916	12.00	7.07	2.25	9.32	2.82	1.75	2.24	17.96
1918	11.71	7.02	2.68	9.70	2.65	1.92	1.68	18.32
1920	13.25	7.61	3.05	10.66	1.02	1.77	1.99	19.16
1921	12.90	7.29	2.83	10.12	.87	1.73	2.24	18.71
1948	12.45	6.95	2.47	9.42	2.64	1.82	2.04	18.07
1958	11.92	7.78	2.31	10.09	1.89	1.82	1.95	18.73
1959	13.58	7.43	2.79	10.22	1.92	1.82	1.59	18.47
2010	11.26	6.81	1.20	8.01	2.64	1.92	1.78	16.71
2051	11.57	6.32	3.07	9.39	2.46	1.51	1.84	16.77
2207	12.30	6.77	2.76	9.53	2.37	1.90	1.81	18.19
2208	12.58	7.68	2.43	10.11	1.96	1.76	1.89	18.49
2209	13.75	7.82	2.37	10.19	1.52	1.60	1.86	18.03
2210	12.60	7.05	2.43	9.48	2.48	1.92	1.61	18.04
2211	13.50	7.79	3.11	10.90	.77	1.75	1.67	19.04
2212	13.47	7.52	2.94	10.46	.83	1.80	1.97	19.03
2213	14.30	6.13	2.95	9.08	.75	1.80	2.62	18.16
2214	13.74	7.07	2.75	9.82	.90	1.82	2.32	18.76

Laboratory Num'r.	Name of Brand and Manufacturer.	Where and From Whom Collected
2215	Meridian Home Mixture..	Lann & Carter, Aberdeen.....
2216	"	Kennedy & Co., Wiggins
		Average
		Guarantee
1842	Meridian Blood and Bone.	McClain & Ratcliff, Gloster
1917	"	S H. Floyd, Shubuta
1954	"	A. Roberts & Co., Lauderdale
2016	"	A. Mangold & Co., Hazlehurst
2200	"	J. H. South, Steen's Creek
2201	"	Matthews & Cotten, Iuka
		Average
		Guarantee
1875	Meridian Farmer's Friend	T. A. Lee, Wesson
1961	"	W. J. Brown & Bro., Kosciusko
		Average
		Guarantee
1995	Meridian Veg'ble Grower.	Seward & Gaston, Ackerman
2199	"	J. L. Miller, Gallman
		Average
		Guarantee
2198	Meridian Soluble Guano..	J. W. Elliott, Magnolia
		Guarantee
1878	German Kainit.....	Waddell, May & Barnes, Brandon..
		Guarantee
	MOBILE PHOSPHATE CO., Mobile, Ala.	
1781	I. X. L. Acid Phosphate..	Winner & Meyer, Meridian
1854	"	T. C. Edwards, Shuqualak
1855	"	Winner & Meyer, Meridian
2109	"	T. B. Gaddis, Morton
2110	"	J. L. Wells, Hickory
2111	"	Seward & Gaston, Ackerman
2112	"	J. P. Myer, Ellisville
2113	"	S. H. Floyd, Shubuta
		Average
		Guarantee
1782	Mobile Standard Guano..	Winner & Meyer, Meridian
1816	"	"
1820	"	Geo. L. Welsh & Son, Shuqualak ..
1849	"	Burkett & Burrow, Columbia.....
1928	"	Wetherbee & Huggins, Waynesboro
1929	"	W. L. Weems, Shubuta
1930	"	J. P. Myer, Ellisville
1949	"	B. Shia & Co., Collins
1969	"	Barnett-Davis Supply Co., Boonev'le
2118	"	The J. P. Myer Mer. Co., Taylorsv'le

Laboratory Num'r.	Moisture—Per cent.	Phosphoric Acid—Per Cent.				Nitrogen—Per cent.	Potash—Per cent.	Relative Value per ton.
		Water—soluble.	Citrate—soluble.	Available.	Insoluble.			
2215	12.23	6.09	3.86	9.95	2.07	1.85	1.79	18.36
2216	13.10	6.75	2.97	9.72	1.19	1.89	1.84	18.38
	13.08	7.04	2.71	9.75	1.50	1.78	2.01	18.25
	.....	7.50	2.00	9.50	.75	1.75	1.75	17.69
1842	13.80	7.14	3.31	10.45	1.88	1.79	1.86	18.84
1917	11.45	6.92	2.76	9.68	2.81	1.87	2.16	18.61
1954	14.28	7.79	2.02	9.81	2.16	1.91	1.87	18.67
2016	13.36	7.11	2.80	9.91	1.78	1.75	1.97	18.28
2200	17.47	8.16	2.89	11.05	.97	1.65	1.71	18.94
2201	15.07	6.84	3.40	10.24	1.70	1.67	1.74	18.09
	14.24	7.33	2.86	10.19	1.88	1.77	1.90	18.57
	.....	7.50	2.00	9.50	1.25	1.75	1.45	17.69
1875	12.94	6.26	2.75	9.01	1.55	1.77	1.28	16.69
1961	12.84	6.96	4.75	11.71	1.82	1.05	1.34	17.16
	12.89	6.61	3.75	10.36	1.68	1.41	1.31	16.92
	.....	6.00	1.00	7.00	.50	1.65	1.00	13.96
1995	10.36	6.77	2.47	9.24	6.75	1.46	4.71	19.37
2199	13.00	7.01	2.76	9.77	3.35	2.00	4.44	21.41
	11.68	6.89	2.62	9.51	5.05	1.73	4.57	20.39
	.....	5.00	1.00	6.00	.50	2.50	6.00	20.63
2198	15.00	8.00	2.33	10.33	.73	1.68	2.09	18.68
	.....	7.50	2.00	9.50	.75	1.75	1.75	17.69
1878	4.18	.....	.....	.....	.....	.....	12.76	12.76
	.....	.....	.....	.....	.....	.....	12.00	12.00
1781	14.91	11.39	3.52	14.91	3.66	.....	.....	16.05
1854	14.40	12.64	3.27	15.91	1.61	.....	.....	17.17
1855	15.13	10.93	3.23	14.16	4.55	.....	.....	15.25
2109	13.68	9.59	3.71	13.30	5.21	.....	.....	14.26
2110	15.32	10.32	4.02	14.34	3.02	.....	.....	15.37
2111	13.53	9.11	3.91	13.02	6.04	.....	.....	13.93
2112	14.35	11.14	5.19	16.33	2.09	.....	.....	17.44
2113	14.26	9.29	5.32	14.61	3.16	.....	.....	15.54
	14.45	10.55	4.02	14.57	3.67	.....	.....	15.63
	.....	10.00	2.00	12.00	1.00	.....	.....	13.00
1782	10.79	7.88	3.52	11.40	3.67	1.97	2.19	20.78
1816	11.15	7.91	3.04	10.95	3.54	1.91	2.04	19.99
1820	10.93	7.98	3.33	11.31	4.39	1.80	2.02	19.98
1849	11.11	8.66	2.81	11.47	4.22	1.82	2.58	20.83
1928	10.61	4.35	4.27	8.62	7.29	1.99	1.99	17.51
1929	10.85	4.73	4.47	9.20	6.47	1.89	2.12	17.93
1930	10.64	5.27	4.55	9.82	6.52	1.69	2.36	18.20
1949	9.50	4.40	4.21	8.61	7.70	2.03	1.96	17.61
1969	11.65	5.44	3.92	9.36	6.56	1.70	2.14	17.57
2118	11.10	4.86	4.60	9.46	6.47	1.62	1.77	16.98

Laboratory Num'r.	Name of Brand and Manufacturer.	Where and From Whom Collected.
2119	Mobile Standard Guano ..	Miss. and Ala. Co-op. Co , State Line
2120	"	D. L. O'Neal, McHerry
2121	"	J. R. Dabbs & Bro , Guntown.....
2122	"	Gilmore & May, Amory
2123	"	A. Roberts & Co., Lauderdale.....
		Average
		Guarantee
1943	Mobile Double Eagle	J. P. & W. C. Wetherbee, Waynesb.
1971	"	Dr. C. C. Ewing, Aberdeen
2061	"	J. P. & W. C. Wetherbee, Waynesb.
2062	"	L. H. Tubb, Amory
2116	"	J. L. McLain & Co., State Line ...
		Average
		Guarantee
1970	Mobile Dis. Bone and Pot.	T. L. Shots, Amory
		Guarantee
2114	Eclipse Soluble Guano	A. B. Williamson & Co., Buckatunna
2115	"	R. W. Fagan & Co., Waynesboro ..
		Average
		Guarantee
2117	Genuine German Kainit..	Winner & Meyer, Meridian
		Guarantee
	NEW ORLEANS ACID AND FERTILIZER CO. New Orleans, La	
1810	Black Diamond Acid Phos	S. Cohn & Sons, Magnolia
1807	"	D. Rosenbaum's Sons, Meridian ...
1874	"	Hawkins & Co., Hattiesburg
2152	"	R. W. Carter, Iuka
2153	"	S. Cohn & Sons, Magnolia
2154	"	J. S. Weems, Shubuta ..
2155	"	Seward & Gaston, Ackerman
2156	"	Robinson Merc'tile Co., Centreville.
		Average
		Guarantee
1765	Goldsmith's Imp. Mixture	Louis Cohn & Bros., Brookhaven ..
1812	"	S. Cohn & Sons, Magnolia
1817	"	D. Rosenbaum's Sons, Meridian ...
1841	"	Wilkinson & Rawls, Poplarville....
1840	"	Hawkins & Co., Hattiesburg
1936	"	Seward & Gaston, Ackerman
1937	"	Robinson Merc'tile Co., Centreville
1947	"	Eastabutchie Lum. Co., Eastabutchie
1962	"	Sones & Dansby, Forest.....
1963	"	The J. P. Myer Mer. Co., Taylorsv.
2011	"	Sessions Bros., Woodville

Laboratory Num'r.	Moisture—Per cent.	Phosphoric Acid—Per Cent.				Nitrogen—Per cent.	Potash—Per cent.	Relative Value per ton
		Water—soluble.	Citrate—soluble.	Available.	Insoluble.			
2119	12.92	6.79	3.12	9.91	3.21	1.79	1.96	18.37
2120	13.07	7.48	2.44	9.92	1.22	1.84	2.24	18.89
2121	10.93	4.30	4.12	8.42	5.60	1.95	2.24	17.43
2122	10.85	4.29	4.93	9.22	6.52	1.85	1.69	17.35
2123	10.71	4.85	4.74	9.59	6.52	1.76	1.92	17.72
	11.12	5.95	3.87	9.82	5.33	1.84	2.08	18.48
	.....	6.00	3.00	8.00	1.50	1.65	2.00	15.96
1943	13.54	12.46	.06	12.52	1.01	1.86	2.33	22.14
1971	15.03	9.52	1.55	11.07	1.56	1.34	2.29	18.67
2061	13.12	7.59	3.34	10.93	5.12	1.41	1.88	18.15
2062	13.44	7.64	2.98	10.62	1.80	1.88	1.96	19.45
2116	10.75	8.29	3.44	11.73	.82	1.62	2.49	20.31
	13.17	9.10	2.27	11.37	2.06	1.62	2.19	19.74
	.....	7.50	3.50	10.00	1.50	1.65	2.00	18.11
1970	12.02	6.73	4.14	10.87	2.35	.....	2.92	14.46
	.....	8.00	2.00	10.00	2.00	.....	2.00	12.80
2114	12.06	7.05	3.98	11.03	2.62	1.72	.94	18.27
2115	15.99	7.98	2.95	10.93	1.07	1.71	1.38	18.67
	14.02	7.51	3.47	10.93	1.84	1.72	1.16	18.47
	.....	7.00	2.00	9.00	1.50	1.65	1.00	16.06
2117	2.93	.....	.....	.....	.....	.....	13.11	13.11
	.....	.....	.....	.....	.....	.....	12.00	12.00
1810	18.92	6.47	4.83	11.30	2.06	.....	.....	11.95
1807	17.92	8.01	4.69	12.70	1.98	.....	.....	13.50
1874	15.94	7.91	3.65	11.56	2.44	.....	.....	12.35
2152	15.70	10.32	4.67	14.99	2.61	.....	.....	16.02
2153	16.62	9.27	5.48	14.75	2.19	.....	.....	15.68
2154	18.38	9.07	5.24	14.31	1.91	.....	.....	15.22
2155	17.51	8.21	4.79	13.00	2.39	.....	.....	13.82
2156	12.99	10.62	5.34	15.96	2.03	.....	.....	17.02
	16.75	8.73	4.84	13.57	2.20	.....	.....	14.44
	.....	10.00	2.00	12.00	2.00	.....	.....	12.00
1765	10.71	6.75	2.73	9.48	1.97	1.60	1.27	16.63
1812	11.79	6.75	2.53	9.28	2.62	2.09	1.89	18.64
1817	12.59	6.88	3.08	9.96	2.33	1.89	1.75	18.54
1841	14.13	8.52	1.93	10.45	2.34	1.88	1.71	19.12
1840	9.45	5.74	2.84	8.58	1.98	2.07	2.08	17.96
1936	12.21	7.37	2.28	9.65	1.93	1.97	2.25	19.04
1937	11.21	7.27	2.06	9.33	3.07	1.97	1.62	18.08
1947	11.50	8.38	2.58	10.96	2.32	1.80	1.77	19.42
1962	11.58	7.71	2.65	10.36	2.64	1.95	1.70	19.17
1963	12.24	7.11	2.01	9.12	2.65	2.06	1.87	18.40
2011	12.53	7.85	2.91	10.76	2.62	2.00	1.75	19.80

Laboratory Num'r.	Name of Brand and Manufacturer.	Where and From Whom Collected.
2157	Goldsmith's Imp. Mixture	W. M. McGough & Son, Morton....
2158	"	Pickering & Co., Mount Olive.....
2159	"	J. P. Wise & Co., Hazlehurst
2160	"	Hyman Mercantile Co., Summit....
2161	"	J. & B. McClenahan, Pelahatchie ..
2162	"	Atkinson & Bacot Co., Osyka
2163	"	W. H. Chambliss, Newton.....
2164	"	W. M. Hyde, Vossburg
2165	"	Bonner Bros., Sandersville
		Average
		Guarantee
1811	Dissolved Bone	S. Cohn & Sons, Magnolia.....
		Guarantee
1966	Crescent City Acid Phos.	W. H. Chambliss & Son, Newton ...
		Guarantee
1870	Good Luck.....	Rawls & Binns, Seminary.....
		Guarantee
1872	Dissolved Bone and Potash	Pickering & Co, Mount Olive.....
2009	"	Louis Cohn & Bro., Brookhaven....
2148	"	Lann & Carter, Aberdeen.....
2149	"	Louis Bendat, McComb Citv.....
		Average
		Guarantee
1873	Blood, Bone and Potash..	S. Cohn & Sons, Magnolia.....
1965	"	R. W. Carter, Iuka
2028	"	J. J. Dickson, McHenry
2147	"	J. P. Myer, Ellisville
		Average
		Guarantee
1938	Blood, Bone and Beef	Atkinson & Bacot Co., Osyka
2022	"	J. L. Moyse & Bro., Summit.....
2038	"	"
		Average
		Guarantee
1871	Gold Dust.....	Rawls & Binns, Seminary
1964	"	J. S. Eaton & Bro., Taylorsville....
2006	"	T. L. Cotten & Co., Summit
2027	"	T. C. Ruble, McHenry
2150	"	Rew & McClinton, Newton
2151	"	D. H. Jones, Terry
		Average
		Guarantee
	STANDARD GUANO AND CHEM. M'FG. CO. New Orleans, La.	
1784	Stern's Acid Phosphate...	Kelly & McKinnon, Seminary....

Laboratory Num'r.	Moisture—Per cent.	Phosphoric Acid—Per Cent.				Nitrogen—Per cent.	Potash—Per cent.	Relative Value per ton.
		Water-soluble.	Citrate-soluble.	Available.	Insoluble.			
2157	12.24	7.56	2.41	9.97	2.82	1.98	.94	18.11
2158	12.67	7.25	3.40	10.65	1.77	2.02	1.60	19.54
2159	12.64	8.44	3.28	11.72	3.16	1.92	1.60	20.40
2160	12.66	6.41	3.22	9.63	2.29	1.92	1.76	18.27
2161	10.10	7.15	3.25	10.40	3.10	1.67	1.78	18.33
2162	13.15	6.79	2.76	9.55	2.49	1.84	1.60	17.81
2163	11.84	7.71	2.31	10.02	2.88	1.87	1.57	18.44
2164	12.97	6.93	2.73	9.66	2.74	1.67	1.80	17.58
2165	12.62	7.27	2.14	9.41	2.55	1.76	1.66	17.52
	12.04	7.29	2.66	9.95	2.51	1.90	1.70	18.54
	.....	7.00	2.00	9.00	2.00	1.65	1.00	16.06
1811	13.22	11.03	4.87	15.90	2.48	.....	.....	17.00
	.....	12.00	3.00	15.00	2.00	.....	.....	16.20
1966	14.08	12.06	3.23	15.29	3.15	.....	.....	16.50
	.....	10.00	2.00	12.00	2.00	.....	.....	13.00
1870	9.87	5.67	3.56	9.23	5.30	1.80	1.18	16.83
	.....	7.00	2.00	9.00	2.00	1.65	1.00	16.06
1872	11.67	7.88	4.30	12.18	2.41	.....	2.25	15.22
2009	13.02	11.58	4.07	15.65	2.28	.....	2.14	18.95
2148	15.24	11.01	3.76	14.77	2.90	.....	2.23	18.10
2149	14.55	10.43	4.35	14.78	2.41	.....	3.43	19.25
	13.62	10.23	4.12	14.35	2.50	.....	2.51	17.88
	.....	8.00	2.00	10.00	2.00	.....	2.00	12.80
1873	8.67	6.05	3.30	9.35	5.46	1.65	1.17	16.49
1965	9.96	6.10	3.98	10.08	4.40	1.60	1.23	17.41
2028	3.92	5.18	2.83	8.01	7.01	2.45	1.06	17.55
2147	15.57	8.79	1.49	10.28	3.53	1.92	1.04	18.44
	9.53	6.53	2.90	9.43	5.10	1.93	1.13	17.47
	.....	7.00	2.00	9.00	2.00	1.65	1.00	16.06
1938	11.50	4.91	2.93	7.84	5.94	1.80	1.26	15.44
2022	16.09	4.67	2.93	7.60	1.93	1.86	1.43	15.54
2038	14.09	4.44	3.56	8.00	1.87	1.98	1.45	16.33
	13.89	4.67	3.14	7.81	3.25	1.88	1.38	15.77
	.....	7.00	2.00	9.00	2.00	1.65	1.00	16.06
1871	15.09	8.49	2.14	10.63	2.62	1.60	1.86	18.54
1964	13.24	7.14	2.75	9.89	2.62	1.99	1.70	18.77
2006	12.50	9.19	3.31	12.50	3.06	1.81	1.99	21.29
2027	12.90	7.65	3.01	10.66	2.11	1.89	1.64	19.20
2150	11.89	5.82	3.27	9.09	2.74	1.54	2.07	16.75
2151	13.55	6.98	2.24	9.22	2.30	1.96	1.74	18.03
	13.20	7.54	2.79	10.33	2.24	1.80	1.83	18.76
	.....	7.00	2.00	9.00	2.00	1.65	1.00	16.06
1784	13.72	12.20	5.11	17.31	1.11	.....	.....	18.53

Laboratory Num'r.	Name of Brand and Manufacturer.	Where and From Whom Collected.
1821	Stern's Acid Phosphate ..	W. J. Hubbard, Shuqualak
1858	"	W. M. Hyde & Co., Poplarville
1968	"	Taylor Bros. & Nelson, Magee.....
2175	"	Griffith Parkman Co., Mount Olive.
2176	"	G. H. Beeman, Harpersville.....
2177	"	J. K. Kirkland, Quitman
2178	"	W. I. Heidelberg, Heidelberg.....
2179	"	W. L. Bourland, Amory.....
2180	"	I. H. Brown, Hickory
		Average
		Guarantee
1775	Stern's Amm'd R. B Sup'r's	I. N. Varnado, Osyka
1776	"	I. M. Eagan, Crystal Springs
1783	"	Kelly & McKinnon, Seminary.....
1856	"	Griffith Parkman Co., Mount Olive.
1836	"	H. A. Barnes, Columbia
1952	"	J. A. Spann, Pelahatchie
2024	"	H. H. Overstreet, Eastabutchie
2026	"	Kennedy & Co., Wiggins
2181	"	Hyman Mercantile Co., Summit...
2182	"	The R. W. Hinton Co., Lumberton.
2183	"	Ainsworth & Mayfield Co., Taylorsv.
2184	"	N. R. Hosey & Co., Soso.....
2185	"	I. W. Lampton & Bros., Columbia..
2186	"	James O'Connell, Purvis.....
2187	"	R. F. Everett, Braxton
2188	"	Hattiesburg Compress Co., Ha'burg
2189	"	McLain Bros. & Jacobs, Gloster....
2190	"	W. C. Ellis, Steen's Creek
2191	"	W. M. Hyde & Co., Poplarville....
2192	"	Lampton Mercantile Co., Magnolia.
2193	"	B. Shia & Co., Collins.....
2194	"	Perkins & Co., Brooklyn
2195	"	R. T. Scherck, Brookhaven
2196	"	Johnson Hand Co., Ellisville
2197	"	Simpson Mercantile Co., Terry
		Average
		Guarantee
1769	St'd Blood Bone and Meat	I. N. Varnado, Osyka.....
1786	"	B. Shia & Co., Collins.....
1837	"	I. W. Lampton & Bro., Columbia...
1839	"	Barney Johns & Co., Gloster.....
1853	"	L. C. Smith, Lauderdale
2171	"	W. L. Bourland, Amory
		Average
		Guarantee

Laboratory Num'r.	Moisture—Per cent.	Phosphoric Acid—Per Cent.				Nitrogen—Per cent	Potash Per cent.	Relative Value per ton.
		Water—soluble.	Citrate—soluble.	Available.	Insoluble.			
1821	13 52	12 92	4.82	17.74	1.43	.....	.....	19.03
1858	12 05	10 49	6 09	16 58	2 69	.....	.....	17.63
1968	13.94	11.55	5 48	17.03	1.15	.....	.....	18.19
2175	12 46	11 10	5 81	16.91	1.07	.....	.....	18.02
2176	15 00	11.18	5.45	16.63	.52	.....	.....	17.75
2177	13 30	11.44	5.45	16.89	.99	.....	.....	18.03
2178	13.55	11 80	6.28	18 08	1.46	.....	.....	19 26
2179	14 31	11 26	6.12	17.38	1.73	.....	.....	18.51
2180	11 39	11.09	5 35	16 44	1.39	.....	.....	17 55
	13 32	11.50	5 60	17.10	1 35	.....	.....	18 25
	.....	<i>10 00</i>	<i>2 00</i>	<i>12 00</i>	.....	.....	.....	<i>13 00</i>
1775	12 30	7 10	3.02	10.12	2.39	1.93	1.53	18.63
1776	12 58	7.20	2.84	10.04	2 46	1 74	1.53	17.95
1783	11 94	7.04	3 04	10.08	2.75	1.64	1.62	17.73
1856	11 28	4 53	5.75	10.28	4.70	1.61	1.44	17.41
1836	12 01	7.18	3.07	10.25	4.26	1.73	1.57	18 18
1952	10 77	5.76	3 69	9 45	5 55	1.57	1.46	16.59
2024	12 00	6.13	3.84	9.97	4.81	1.86	1.49	18.12
2026	12 72	5 74	4.13	9.87	3 68	1.72	1.54	17 57
2181	11 34	5.60	4.47	10.07	3 35	1.79	1.33	17.78
2182	11.75	4.90	4.90	9.80	5.81	2.00	1 41	18 20
2183	11 29	6 13	3.74	9.87	3 47	1 76	1.57	17.77
2184	10 99	6 00	3 76	9 76	3 34	1.78	1.31	17 46
2185	10 65	5 85	4 54	10 39	4 49	1.89	1.31	18 43
2186	11.57	6.70	3 93	10 63	4 53	1.65	1.75	18.41
2187	10 21	6.50	3.94	10.44	4.43	1.62	1.48	17.84
2188	11 43	7.30	3.03	10 33	4 54	1.87	1.47	18 61
2189	10 25	6.15	3.89	10 04	4.85	1 56	2.04	17.77
2190	10 84	7 47	3.08	10 55	4.04	1.72	1 39	18 28
2191	11 70	7 13	3.21	10 34	4 84	1.82	1 44	18 41
2192	12 70	7 19	2.61	9.80	1.14	1.76	1.62	17 86
2193	10 68	5.48	4.81	10 29	4 84	2.01	1.14	18.51
2194	10 31	6.86	3.35	10.21	2 84	1.91	2.08	19.18
2195	10.00	5.39	4 78	10 17	4 32	1.81	1.54	18.13
2196	11 08	5.87	4.84	10.71	4.43	1.67	1.40	18.13
2197	11.13	6.98	3.19	10.17	4.35	1.90	1.35	18.39
	11 36	6.33	3.82	10.15	4.01	1.77	1.51	18 06
	.....	<i>4.00</i>	<i>5.00</i>	<i>9.00</i>	.....	<i>1.65</i>	<i>1.50</i>	<i>16.26</i>
1769	12 10	7.34	2.01	9.35	3 77	1.84	2.08	18.14
1786	10 85	6.22	2.59	8 81	1 79	2 31	2 20	19 14
1837	11 35	6.96	2.42	9.38	4 54	1.83	1.71	17 73
1839	11 45	7.51	2.47	9.98	4 51	1.84	1.78	18 49
1953	13.63	6 28	3.38	9 66	3 24	1.63	2.16	17 75
2171	11 92	6.01	3.97	9.98	4 04	1.52	1.77	17 29
	11 88	6.72	2.81	9.53	3 65	1.83	1.95	18 09
	.....	<i>4.00</i>	<i>4.25</i>	<i>8.25</i>	.....	<i>1.70</i>	<i>2.00</i>	<i>16.18</i>

Laboratory Num'r.	Name of Brand and Manufacturer.	Where and From Whom Collected.
1785	Mississippi Home Guano..	Kelly & McKinnon, Seminary
1857	"	I. W. Lampton & Bro., Columbia...
1967	"	L. H. Tubb, Amory.....
2172	"	Gayden & Co., Brandon
2173	"	Johnson Woodward Co., Mt Olive..
2174	"	B. F. Fridge, Ellisville.....
		Average
		Guarantee.....
1838	Champ Farmer's Choice..	W. Atkinson Foxworth Co., Colu'bia
1910	"	G. Lowenberg & Co., Kosciusko....
1935	"	J. P. & W. C. Weatherbee, W'boro.
2168	"	H. C. Rogers, Centreville
2169	"	E. Pfeifer, Brookhaven.....
2170	"	J. H. DuBose & Co., Buckatunna....
		Average
		Guarantee.. ..
1777	Ground Bone.. ..	I. M. Eagan, Crystal Springs.
1859	"	H. A. Barnes, Columbia.....
2167	"	Collins Bros., Tylertown.....
		Average
		Guarantee.. ..
1946	Pelican R. B. Guana.....	Wm. Atkinson Foxworth Co., Co- lumbia
2166	"	Atkinson & Bacot Co., Osyka.....
		Average
		Guarantee
2032	Kainit	C. Atkinson Son's Co., Summit.....
		Guarantee
	SWIFT FERT'ZER WORKS. Atlanta, Ga.	
1865	Golden Harvest Standard Grade Guano	M. D. Graham & Co., Forest.....
1957	Golden Harvest Standard Grade Guano.....	Wilson & Waldrop, Pelahatchie....
		Average
		Guarantee
2079	Special H. G. Guano.....	Sandersville Mer. Co., Sandersville. Guarantee
1909	Capital H. G. Acid Phos.	Seward & Gaston, Ackerman
		Guarantee
1980	Swifts Plow Boy Ammoni- ated Bone and Potash.	J. J. Rogers, Tupelo.....
2081	Swifts Plow Boy Ammoni- ated Bone and Potash .	Gilmore & May, Amory
		Average
		Guarantee.....

Laboratory Num'r.	Moisture—Per cent.	Phosphoric Acid—Per Cent.				Nitrogen—Per cent.	Potash—Per cent.	Relative Value per ton.
		Water-soluble.	Citrate-soluble.	Available.	Insoluble.			
1785	9.93	6.24	2.92	9.16	.87	2.07	2.14	18.65
1857	10.06	7.14	2.65	9.79	1.61	1.75	1.95	18.14
1967	11.20	6.67	2.56	9.23	4.14	1.71	2.35	17.81
2172	10.40	6.52	2.68	9.20	1.00	1.90	2.85	18.88
2173	10.83	7.61	2.60	10.21	2.48	1.81	2.61	19.46
2174	10.74	7.10	3.15	10.25	2.47	1.88	2.09	19.16
	10.53	6.88	2.76	9.64	2.09	1.85	2.33	18.68
.....	4.00	5.00	9.00	.....	1.65	2.00	16.76	
1838	10.46	7.16	2.26	9.42	1.18	2.13	1.83	18.89
1910	10.14	7.14	2.02	9.16	.82	1.89	1.81	17.82
1935	11.90	6.59	3.79	10.38	.90	1.72	1.66	18.29
2168	11.21	6.29	2.66	8.95	3.51	2.07	1.63	17.94
2169	11.72	6.42	2.87	9.29	1.48	1.62	1.77	16.97
2170	10.00	6.09	2.53	8.62	4.58	1.65	1.85	16.44
	10.91	6.61	2.69	9.30	2.08	1.85	1.76	17.73
.....	4.00	4.00	8.00	.....	1.65	1.50	15.26	
1777	6.21	.....	.....	.....	22.58	3.51	.....	22.70
1859	7.63	.....	.....	.....	23.23	2.56	.....	19.94
2167	6.99	.....	.....	.....	22.81	3.16	.....	21.68
	6.94	.....	.....	.....	22.87	3.08	.....	21.44
.....	.....	.....	.....	.....	18.50	2.50	.....	17.38
1946	14.61	4.72	3.52	8.24	4.95	1.55	1.62	15.37
2166	11.61	6.08	3.58	9.66	3.25	1.53	1.39	16.63
	13.11	5.40	3.55	8.95	4.10	1.54	1.50	16.00
.....	4.00	4.00	8.00	1.00	1.65	1.50	15.26	
2032	2.78	.....	.....	.....	.....	.....	12.41	12.41
.....	.....	.....	.....	.....	.....	.....	12.00	12.00
1865	10.27	5.05	3.95	9.00	2.35	1.80	2.10	17.46
1957	9.15	5.97	2.32	8.29	3.21	1.73	2.38	16.89
	9.71	5.51	3.13	8.64	2.78	1.77	2.24	17.18
.....	6.00	2.00	8.00	1.00	1.65	2.00	15.96	
2079	8.01	6.87	.87	7.74	1.83	4.72	3.16	26.93
.....	7.00	2.00	9.00	1.00	4.10	3.00	26.02	
1909	12.35	10.62	3.99	14.61	2.62	.....	.....	15.67
.....	10.00	2.00	12.00	1.00	.....	.....	13.00	
1980	9.78	6.84	2.76	9.60	3.99	1.22	1.48	15.73
2081	9.50	6.50	3.52	10.02	4.07	1.14	1.18	15.56
	9.64	6.67	3.14	9.81	4.03	1.18	1.33	15.64
.....	6.00	2.00	8.00	1.00	.82	1.00	12.27	

Laboratory Number.	Name of Brand and Manufacturer.	Where and From Whom Collected.
1979	Swift's Wheat Growers' Acid Phos. and Potash..	Gilmore & May, Amory
2078	Swift's Wheat Growers' Acid Phos. and Potash..	J. J. Rogers, Tupelo..... Average. Guarantee.....
2080	Swift's Cotton Plant St'd Guano	Wetherbee & Huggins, Waynesboro Guarantee
	TENNESSEE CHEM'L CO Nashville, Tennessee.	
1890	Ox Slaughter House Bone	Myer & Egger, Caledonia
1813	"	W. L. Williams, Wesson.
1911	"	Potts-Jackson Co., Kosciusko.....
1941	"	F. M. Howard, Canton
2044	"	Potts-Jackson Co., Kosciusko.....
2063	"	L. H. Tubb, Amory
2096	"	L. C. Prather, Baldwyn.....
2097	"	Abney & Travis, Heidelberg ..
2098	"	Pierce, Singletary & Co., Steens Cr'k
2099	"	D. H. Ravesies, Purvis..... Average..... Guarantee.....
1818	Ox H. G. Dis. Bone	L. L. Anderson, Shuqualak.....
1869	"	W. L. Wellman, Wesson.....
2088	"	Dr. C. C. Ewing, Aberdeen.....
2089	"	W. W. Harris, Iuka Average Guarantee
1819	Ox Acid Phosphate.....	L. L. Anderson, Shuqualak.
1913	"	Fowler & Fowler, McCool.....
2090	"	D. H. Ravesies, Purvis.....
2091	"	F. M. Howard, Canton Average..... Guarantee
1868	Ox Potash Mixture.....	Canton Cotton Ware'he Co., Canton
1914	"	Blumenfeld & Fried, Ackerman ...
2094	"	S. L. Sanders, Corinth
2095	"	W. H. Barron & Co., Crystal Spr'gs Average Guarantee
1977	Ox Cotton Guano.....	Myer & Egger, Caledonia.....
2092	"	W. W. Harris, Iuka
2093	"	C. M. Elder, New Albany Average Guarantee

Laboratory Numbr.	Moisture—Per cent.	Phosphoric Acid—Per Cent.				Nitrogen—Per cent.	Potash—Per cent.	Relative Value per ton.
		Water—soluble	Citrate—soluble.	Available.	Insoluble.			
1979	9.69	6.88	3.07	9.95	4.75	.....	2.27	12.91
2078	9.60	6.78	3.69	10.47	4.50	.....	2.27	13.42
	9.65	6.83	3.38	10.21	4.62	.....	2.27	13.16
		7.00	2.00	9.00	1.00	.....	2.00	17.70
2080	9.30	6.26	2.99	9.25	3.22	1.80	1.56	16.06
		7.00	2.00	9.00	1.00	1.65	1.00	17.29
1890	10.05	5.91	2.95	8.86	4.66	1.88	1.93	17.49
1813	9.68	6.08	3.19	9.27	4.48	1.27	1.80	15.81
1911	9.01	6.08	3.49	9.57	5.26	1.86	2.15	18.38
1941	9.00	6.36	3.70	10.06	3.38	1.62	2.19	18.15
2044	6.66	7.22	2.20	9.42	6.14	1.64	2.07	17.54
2063	8.25	7.33	2.49	9.82	5.72	1.55	1.95	17.54
2096	7.57	6.32	2.97	9.29	2.46	1.75	2.00	17.61
2097	9.46	5.64	3.69	9.33	4.43	1.87	2.07	18.04
2098	9.41	5.91	3.38	9.29	5.32	1.81	1.94	17.70
2099	9.05	6.51	2.96	9.47	3.08	1.58	2.08	17.34
	8.81	6.34	3.10	9.44	4.49	1.68	2.02	17.56
		2.00	6.00	8.00	1.00	1.65	2.00	15.96
1818	11.52	10.14	4.34	14.48	1.32	.....	.....	15.49
1869	11.79	11.62	3.30	14.92	3.17	.....	.....	16.08
2088	11.05	10.46	3.62	14.08	3.13	.....	.....	15.13
2089	9.80	9.10	5.23	14.33	1.66	.....	.....	15.24
	11.04	10.33	4.12	14.45	2.32	.....	.....	15.48
		12.00	2.00	14.00	1.00	.....	.....	15.20
1819	11.01	8.92	4.10	13.02	1.78	.....	.....	13.91
1913	9.52	7.61	4.51	12.12	6.78	.....	.....	12.88
2090	6.14	7.36	5.35	12.71	6.19	.....	.....	13.45
2091	8.22	7.83	5.25	13.08	4.59	.....	.....	13.86
	8.72	7.93	4.80	12.73	4.83	.....	.....	13.52
		10.00	2.00	12.00	1.00	.....	.....	13.00
1868	11.51	5.58	4.11	9.69	2.99	.....	2.06	12.31
1914	10.68	5.95	5.10	11.05	3.61	.....	2.44	14.09
2094	9.62	5.68	5.41	11.09	6.13	.....	2.11	13.77
2095	8.53	4.90	6.41	11.31	7.88	.....	1.55	13.35
	10.08	5.53	5.26	10.79	5.15	.....	2.04	13.38
		8.00	2.00	10.00	1.00	.....	2.00	12.80
1977	8.00	7.66	3.75	11.41	2.64	1.85	1.26	19.45
2092	8.80	7.57	4.11	11.68	1.01	1.59	1.37	18.98
2093	10.77	5.82	4.45	10.27	.67	1.82	1.07	17.84
	9.19	7.02	4.10	11.12	1.44	1.75	1.23	18.75
		8.00	2.00	10.00	1.00	1.65	1.00	17.16

Laboratory Num'r.	Name of Brand and Manufacturer.	Where and From Whom Collected.
1889	Ox Bone with Am. & Pot.	Dr. C. C. Ewing, Aberdeen..... Guarantee
	TENN. VALLEY FER. CO., Florence, Ala.	
1986	King Cotton Grower	Phillips, Hinds & Co., Booneville. . Guarantee
	SOLD BY THREEFOOT BROS. & CO. Meridian, Miss.	
1779	Threefoot's H. G. Eng. Acid Phosphate.....	Threefoot Bros. & Co., Meridian....
1852	Threefoot's H. G. Eng. Acid Phosphate.....	" "
2075	Threefoot's H. G. Eng. Acid Phosphate.....	J. L. Wells, Hickory
		Average
		Guarantee
1780	Prolific Acid Phosphate..	Threefoot Bros. & Co., Meridian....
1851	"	" "
1939	"	" "
2073	"	M. J. L. Hoye's Son, Newton.....
2074	"	W. L. Weems, Shubuta
		Average
		Guarantee
1778	Threefoot's Imp. Mixture.	Threefoot Bros. & Co., Meridian....
1853	"	" "
1940	"	J. M. Carter, Quitman
1955	"	E. P. & B. R. Brown, Lockhart....
2076	"	Dunigan & Whitaker, Laurel.....
2077	"	M. D. Graham & Co., Forest.....
		Average
		Guarantee
	VIRGINIA-CAROLINA CHEMICAL CO. Memphis, Tenn.	
1867	Scott's H. G. Acid Phos..	Donald Bros., Magee
2103	"	A. Roberts & Co., Lauderdale.....
		Average
		Guarantee
1982	Royal Acid Phosphate....	S. M. Dean, Iuka
2055	"	Biloxi Milling Co., Biloxi
		Average
		Guarantee
1866	Scott's Gossypium Phos ..	Donald Bros., Magee
1944	"	M. J. L. Hoye's Son, Newton
1983	"	R. J. Shannon, Ripley

Laboratory Num'r.	Moisture—Per cent.	Phosphoric Acid—Per Cent.				Nitrogen—Per cent.	Potash—Per cent.	Relative Value per ton.
		Water—soluble.	Citrate--soluble.	Available.	Insoluble.			
1889	11.33	8.41	2.03	10.44	4.07	.98	1.11	15.58
	.....	8.00	2.00	10.00	1.00	.85	1.00	14.56
1986	11.76	5.95	2.87	8.82	3.70	1.57	1.35	15.87
	.....	.....	.....	7.00	.....	1.65	1.00	13.36
1779	14.37	11.72	4.24	15.96	.43	.....	.....	17.13
1852	13.55	13.85	2.45	16.30	.77	.....	.....	17.69
2075	12.37	13.01	2.54	15.55	.65	.....	.....	16.85
	13.43	12.86	3.08	15.94	.62	.....	.....	17.22
	.....	13.00	2.00	15.00	2.00	.....	.....	16.30
1780	13.02	12.09	3.61	15.70	.43	.....	.....	16.91
1851	11.85	7.36	5.62	12.98	1.70	.....	.....	13.72
1939	10.95	12.31	2.80	15.11	1.18	.....	.....	16.34
2073	12.28	11.74	2.15	13.89	.82	.....	.....	15.06
2074	11.23	11.77	2.20	13.97	1.82	.....	.....	15.15
	11.87	11.05	3.28	14.33	1.19	.....	.....	15.44
	.....	11.00	2.00	18.00	2.00	.....	.....	14.10
1778	13.82	6.50	3.51	10.01	.84	1.75	2.03	18.38
1853	14.62	7.50	2.07	9.57	1.00	1.80	2.22	18.39
1940	11.57	6.93	3.21	10.14	2.35	1.76	1.95	18.50
1955	13.29	7.51	2.83	10.34	1.11	1.82	1.76	18.77
2076	11.84	7.09	2.48	9.57	1.54	1.96	2.16	18.81
2077	11.63	7.10	2.48	9.58	2.48	1.73	1.92	17.83
	12.80	7.11	2.76	9.87	1.55	1.80	2.01	18.45
	.....	7.25	2.25	9.50	1.00	1.75	1.75	17.66
1867	10.49	11.63	3.42	15.05	5.21	.....	.....	16.21
2103	12.52	10.35	2.36	13.71	1.82	.....	.....	14.75
	11.50	10.99	3.39	14.38	3.51	.....	.....	15.48
	.....	12.00	2.00	14.00	2.00	.....	.....	15.20
1982	11.62	11.58	1.88	13.46	3.07	.....	.....	14.62
2055	8.59	12.64	2.36	15.00	1.84	.....	.....	16.26
	10.10	12.11	2.12	14.23	2.45	.....	.....	15.44
	.....	10.00	2.00	12.00	2.00	.....	.....	13.00
1866	11.45	7.93	2.50	10.43	5.23	1.81	2.14	19.25
1944	11.45	9.02	2.09	11.11	1.55	1.76	2.22	19.95
1983	12.24	9.21	2.98	12.19	1.84	1.62	2.15	20.53

Laboratory Num'r.	Name of Brand and Manufacturer.	Where and From Whom Collected.
1992	Scott's Gossypium Phos ..	Irving & Torbert, Wiers
2056	"	Biloxi Milling Co., Biloxi
2104	"	A E. Dalrymple, Amory
2105	"	Lann & Carter, Aberdeen
2106	"	O. Hopkins, Hickory
2107	"	M. D. Graham & Co., Forest.....
2108	"	Wm. Atkinson & McDonald, Wesson Average
		Guarantee
1895	Scott's Ammoniated Bone	W. J. Hubbard, Shuqualak.....
2100	"	C. A. Cranford, Seminary
2101	"	J. E. Byrd, Mt. Olive.....
		Average
		Guarantee
1981	Royal Cotton Boll Guano..	Viverett & Dear, Newton....
2000	"	Parsons, Moreton, Wentworth Co., Brookhaven
		Average
		Guarantee
2025	Royal Animal Bone Guano	Batson Barnes Co., Columbia.....
		Guarantee
1997	Scott's State Stand, Guano	E. M. Carter, Centreville.....
2007	"	J. E. Cobb & Son, Wiers.....
		Average
		Guarantee
1999	Royal Blood and Bone ...	Hyman Mercantile Co., Summit...
		Guarantee
2065	Scott's Potasso Phospho..	D. D. Richardson, Columbus.....
2102	"	J. J. Rogers, Tupelo ..
		Average
		Guarantee
2029	Scott's Meal Formula.....	N. P. Welborn & Co., Laurel.....
		Guarantee
2036	Kainit.....	Hyman Mercantile Co., Summit ...
		Guarantee

Laboratory Num'r	Moisture—Per cent.	Phosphoric Acid—Per Cent.				Nitrogen—Per cent.	Potash—Per cent.	Relative Value per ton.
		Water—soluble.	Citrate—soluble.	Available.	Insoluble.			
1992	12.66	8.78	1.89	10.67	1.65	1.88	2.28	19.94
2056	9.56	8.01	2.01	10.02	2.11	1.96	2.53	19.72
2104	10.59	7.96	2.61	10.57	1.73	2.06	2.21	20.27
2105	12.70	8.94	2.16	11.10	1.56	1.80	2.07	19.91
2106	10.55	6.83	4.51	11.34	3.94	1.54	2.08	19.11
2107	13.82	9.97	1.57	11.54	.99	1.72	2.66	20.79
2108	11.44	6.27	4.78	11.05	3.45	1.71	2.25	19.49
	11.64	8.29	2.71	11.00	2.40	1.79	2.26	19.90
	.....	7.00	3.00	10.00	2.00	1.65	2.00	18.06
1895	10.03	8.56	1.93	10.49	1.36	1.83	1.53	18.81
2100	10.50	5.50	4.65	10.15	2.30	1.48	1.32	16.83
2101	13.24	7.50	2.64	10.14	.83	1.94	1.30	18.50
	11.26	7.19	3.07	10.26	1.50	1.75	1.38	18.05
	.....	6.00	3.00	9.00	2.00	1.65	1.00	15.96
1981	9.33	4.39	3.57	7.96	3.01	1.94	2.07	16.77
2000	9.18	5.85	3.14	8.99	2.89	1.71	2.23	17.37
	9.26	5.12	3.35	8.47	2.95	1.83	2.15	17.07
	.....	7.00	1.00	8.00	2.00	1.65	2.00	16.06
2025	18.48	7.00	2.50	9.50	2.39	1.42	1.03	15.85
		6.00	3.00	9.00	2.00	1.65	1.00	15.96
1997	10.42	5.86	2.92	8.78	1.24	1.96	2.43	18.17
2007	7.68	3.53	5.16	8.69	2.09	1.82	2.23	17.18
	9.05	4.70	4.04	8.74	1.66	1.89	2.33	17.68
	.....	7.00	1.00	8.00	2.00	1.65	2.00	16.06
1999	10.74	6.08	4.88	10.96	3.28	.89	1.29	15.75
	.....	8.00	2.00	10.00	2.00	.82	1.00	14.47
2065	15.22	9.98	2.02	12.00	1.85	.....	2.42	15.42
2102	13.56	10.50	1.54	12.04	2.46	.....	2.51	15.60
	14.39	10.24	1.78	12.02	2.15	.....	2.47	15.51
	.....	10.00	2.00	12.00	2.00	.....	2.00	15.00
2029	10.06	5.58	5.24	10.82	2.60	.97	1.07	15.60
	.....	8.00	2.00	10.00	2.00	.82	1.00	14.47
2036	4.41	11.86	11.86
	10.00	10.00

ANALYSES
—OF—
FERTILIZERS
ON SALE IN MISSISSIPPI.

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