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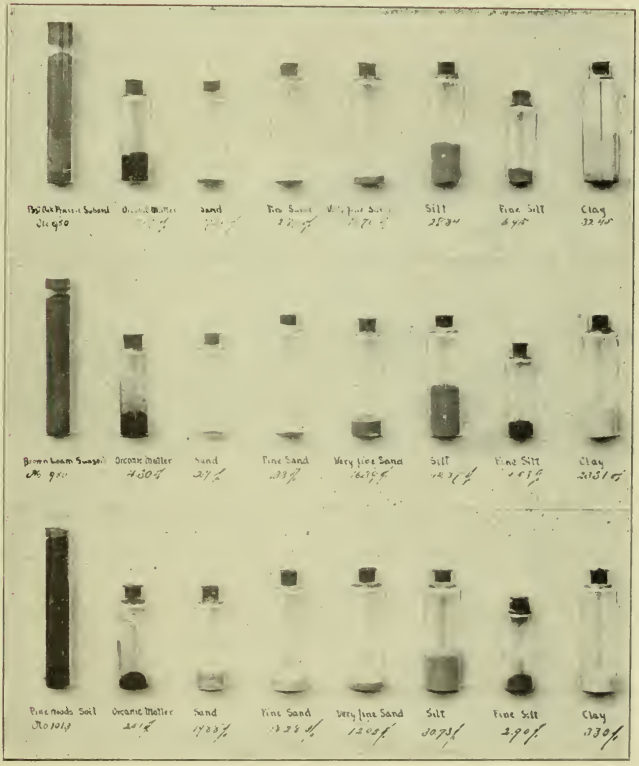
Mississippi Agricultural Experiment Station.

Bulletin No. 65.

SOILS OF MISSISSIPPI:

CHEMICAL AND PHYSICAL COMPOSITION.

—BY—
W. L. HUTCHINSON, W. R. PERKINS AND E. B. FERRIS



PHYSICAL COMPOSITION OF THREE TYPICAL SOILS.

AGRICULTURAL COLLEGE, MISS.
JUNE, 1900.

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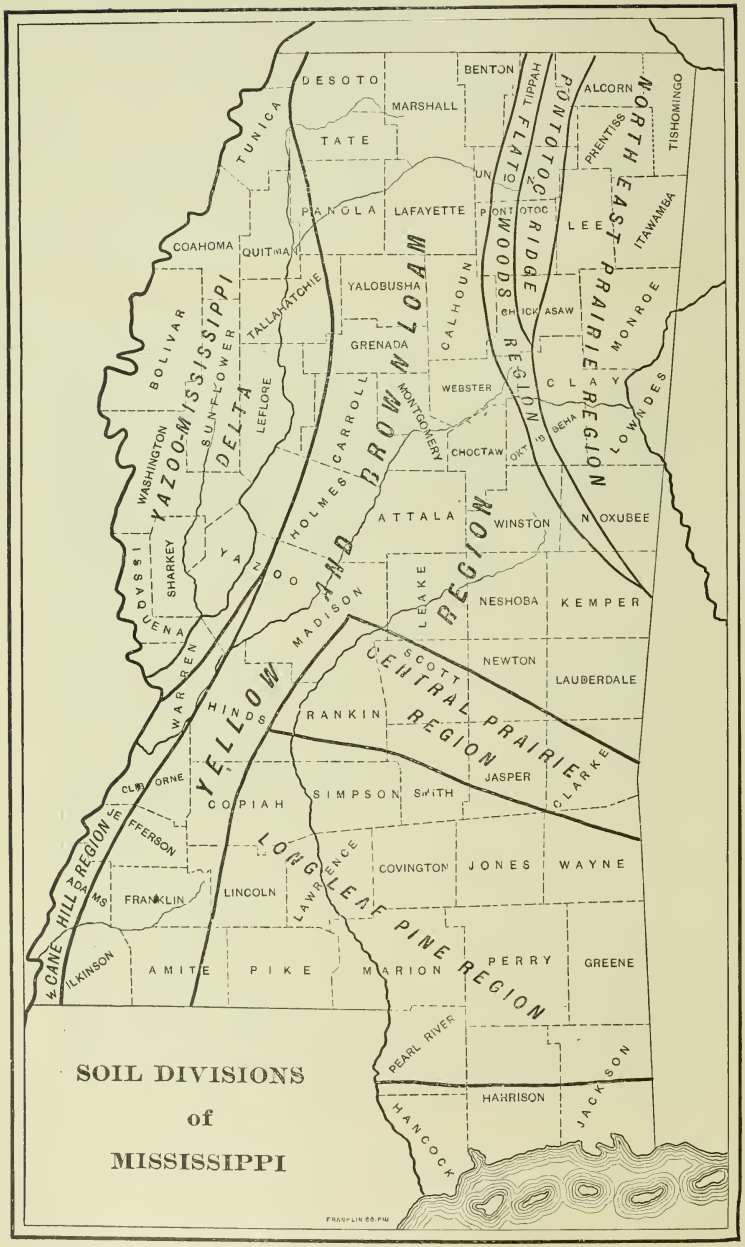

SOIL DIVISIONS

of

MISSISSIPPI

SOILS OF MISSISSIPPI:

CHEMICAL AND PHYSICAL COMPOSITION.

Introduction.—How to maintain lands in a high degree of productiveness and how best to improve those that are depleted and worn, are the important soil problems in this State, and a study of these subjects is one of the principal lines of work being pursued by the Station. We desired to obtain all the valuable information we could concerning the different soils of the State, and the first thing we did was to take a hack and go and see the different lands, how they were tilled and managed and the approximate yield of crops. As we traveled we collected samples of representative soils for analysis, and the analytical results are reported in this bulletin. The data given in the tables, together with the map, which shows the location and extent of the different soil areas, will, we hope, furnish full and satisfactory information concerning all samples.

Washing or erosion.—The heavy rains, which occur all over the cotton belt, together with the system of farming pursued, have resulted in an abnormal and unusual washing of the hill lands in this section. In this State the original surface soil, or virgin soil, of the hills, has been largely washed down into the valleys, so that the soil now tilled, in the valleys, was formerly hill soil, and the soil now tilled on the hills was formerly subsoil. On the College farm the original surface soil of the valleys is covered from one to four feet deep with washings from the hills. In some sections of the State the washing of the surface of the hills into the valleys has been much greater than here, and in other sections, less. As a rule the valley lands are very productive, even when the analysis shows comparatively small amounts of plant food ingredients. The reason is apparent. They are made, to quite a depth, of material that was once productive, surface soil, and, when prop-

erly drained, the water conditions are good. Plants root deep in these soils.

Uplands.—As before stated, the tendency, in the cotton section, has been for the original surface soil of the hills to wash down

FIG. 1.—Small stalks show relative productiveness of soil (formerly subsoil) with only two years' exposure.

to lower levels. In many places the entire surface soil and even the upper subsoil have been washed away, and this wholesale erosion of the surface, varying in degree, gives for the existing surface soils very different periods of exposure as such. It matters not how rich they may be in plant food, subsoils are not productive when first exposed at the surface. The influence of these facts on the productiveness of our uplands is manifest in the "spotted" or irregular crop-yields on every cultivated hillside in the cotton belt.

Prairie soils.—The prairie lands in the State contain com-

paratively large amounts of clay, lime and humus, which determine their texture. As a rule they are rich in potash and phosphoric acid, though there are small areas that do not contain large amounts of these substances. Commercial fertilizers are not used on these lands. They have been tried, and do not pay. Melilotus, cowpeas and clover help these lands very much, where they have become unproductive by many years of cotton culture and improper tillage.

Brown-loam soils —The soils of the brown-loam region generally have a very desirable texture, due to a large amount of

FIG. 2. —Small stalks show effect of poor water conditions. Soils from which two samples were taken were equally fertile.

silt. Their content of phosphoric acid is small, but the supply of potash seems ample. These soils were once very productive. Except in the extreme southern part of this area, farmers are just be-

ginning to use commercial fertilizers on these lands. At a depth of from two to twenty feet this section is underlaid by sand and gravel, and some parts of it are the worst washed lands in the State. Cowpeas, clovers and superphosphates improve the worn lands of this section.

Sandy and sandy-loam soils.—The soils of the long-leaf pine region are of a sandy or sandy-loam character with a clay or sandy-clay sub-soil. Comparatively they contain but a small amount of phosphoric acid, and farmers habitually use commercial fertilizers on all these lands. The fertilizers used consist mainly of superphosphates with a small amount of nitrogen and potash. Some fertilizer tests, made in this section, indicated that potash was not needed on these lands for the crops usually grown. We have never seen soils respond so well to cowpeas and superphosphates as do the light loamy soils of this section.

Determining factors.—Plants must have food and they must have water. Either phosphoric acid, potash or nitrogen may determine the crop yield. The yield may be determined by the supply of water in the soil. Hurtful or poisonous substances or excessive quantities of otherwise harmless substances may determine the yield. By determining the water supply, seasons and tillage may determine the yield, and the yield may also be determined by the use of fertilizers or plant food. It is desirable to have deep surface soils; former subsoils, recently exposed at the surface, are not desirable because they are not productive. In this State nitrogen, phosphoric acid and water are generally the determining factors in the production of crops.

Lime and organic matter.—Both lime and organic matter tend to change the texture of a soil and doubtless to increase its productiveness, but for improving the soils of this State, organic matter seems to be much more economical and efficient. Organic matter helps the water supply and the food supply; the crops are surer and less sensitive to the evils of adverse seasons. So far we have no evidence that any of the soils analyses of which are reported in this bulletin require the addition of lime to make them satisfactorily productive. In some pot experiments we have tried lime on most of our typical soils without any beneficial effect except on spongy reedbrake which contained abnormal amounts of organic matter and was very acid. The data given in the tables show further, that some of our most productive soils do not con-

tain more than one-tenth of one per cent of lime, while many of them do not contain more than two-tenths of one per cent. We believe that the evidence is conclusive that from one-tenth to two-tenths per cent. of lime is ample for the soils and crops of this State.

Interpretation of soil analyses.—Interpretations of analytical results should be reliable and accurate.

The plant food in a soil may determine the yield of crops, but it is not the on'y thing that may determine the yield.

Other things being equal, soils containing the largest total amounts of plant food will have the most plant food available for crops.

Other things being equal, surface soils, with many years' exposure as such, will yield larger crops than former subsoils recently exposed as surface soils.

Other things being equal, the deepest surface soils give the best yields.

Seven-hundredths to one-tenth per cent of phosphoric acid is sufficient for a productive soil.

The work reported in this bulletin fails to show the minimum amount of lime or potash that is necessary for productive soi's.

Except on spongy reedbrake soils, consisting largely of organic matter, the application of lime has not helped any crop on any soil in this Sta

There is no evidence that the application of potash, as a food for plants, has helped or increased the yield of any crop on any soil in this State.

Soils containing .05 per cent. of phosphoric acid or less require the use of superphosphates if large yields are to be obtained.

Leguminous crops, which add nitrogen to the soil and improve the water conditions, increase more than any other one thing, perhaps, the productiveness of cotton soils.

We have not found a cultivated soil, which analysis showed to be rich in plant food, that was not productive if other essential conditions were good.

It is desirable to have soil material as fine as is consistent with good texture,

It is desirable to have soils maintain a uniform water supply. Wide variations in the amount of soil water are hurtful.

As botanists collect herbariums to be used in identifying un-

known plants, so chemists may obtain such a store of information concerning the soils in a State as will be of very great service in dealing with samples sent by farmers and others for examination and advice as to treatment.

Soils of the Northeastern Prairie Region.

Lab. No.	County.	Location of Land; Address of Owner.	Township, Range and Section.	Character of Soil.	Showing Depth in In. Sample was Taken.	Approx. Yield per Acre Unfertilized. Corn, in Bushels.	Cotton, lbs., lint.	Chemical Analysis. Moisture.	Volatile and Organic Matter.	Insoluble Matter.	Soluble Silica.	Iron and Alumina Oxide.	Calcium Oxide (Lime).	Phosphoric Acid.	Potash	Nitrogen.	Physical Analysis. Gravel.	Sand.	Fine Sand.	Very Fine Sand.	Silt.	Fine Silt.	Clay.
926	Kemper.	2 mi ne Scooba	T 12, R 18 e, Sec 27..	Ash-gray prairie	5	....	166	.77	2.46	90.05	.060	5.82	.192	.110	.076	.050	.....	15.87	31.69	24.72	17.03	2.38	4.46
927		2 mi ne Scooba	T 12, R 18 e, Sec 27..	Subsoil of 926	7	....	....	1.85	3.47	83.85	.075	11.12	.280	.079	.105	.040	.....	10.82	22.96	13.53	27.40	4.23	16.05
928		4 mi ne Scooba	T 12, R 18 e, Sec 23..	Prairie valley, black	11	....	333	4.15	7.52	67.86	.106	15.86	1.68	.156	.465	.130	.....	6.12	13.13	7.71	35.40	8.04	16.43
929		Binnsville, se	T 12, R 18 e, Sec 12..	Postoak prairie	6	....	125	2.95	5.90	73.71	.095	14.64	.980	.072	.185	.070	.66	11.11	8.08	14 40	43.66	3.93	8.72
930		Binnsville, se	T 12, R 18 e, Sec 12..	Subsoil of 929	10	....	....	....	....	....	....	....	....	....	....	....	.....	7.06	4.23	9.63	31.98	4.42	32.15
931		Binnsville, n	T 13, R 19 e, Sec 29..	Ash-gray prairie	6	....	250	2.67	5.30	78.22	.077	11.37	.535	.053	.263	.060	.....	3.40	4.55	3.60	58.65	4.08	17.25
932		Noxubee Ferry	T 13, R 19 e, Sec 30..	Noxubee bottom	6	....	366	3.50	8.57	71.54	.093	13.92	.900	.188	.442	.155	.....	2.50	10.80	12.42	31.33	6.06	19.02
933		F A Denton, Cooksville	T 13, R 19 e, Sec 9....	Red upland	3	....	250	.36	2.51	93.70	.065	3.79	.210	.084	.148	.050	.....	34.89	17.70	14.04	24.21	1.14	4.92
934		F A Denton, Cooksville	T 13, R 19 e, Sec 9....	Subsoil of 933	6	....	....	.63	2.87	88.72	.060	7.08	.200	.077	.171	.040	.....	24.45	11.46	15.26	29.89	1.95	13.43
935		2 mi ne Cooksville	T 14 R 19 e, Sec 33....	Postoak prairie	3	....	200	3.22	7.47	72.30	.115	15.61	.325	.090	.201	.070	.....	8.54	4.13	17.32	29.10	6.97	23.58
936		2 mi ne Cooksville	T 14, R 19 e, Sec 33..	Subsoil of 935	6	....	....	7.45	7.55	60.20	.069	22.98	.390	.053	.271	.045	.....	2.40	1.98	4.11	26.35	5.10	46.12
937		2½ mi ne Cooksville	T 14, R 19 e, Sec 28..	Black prairie	5	....	366	5.56	7.42	68.55	.065	16.68	.985	.085	.218	.095	.....	4.95	6.40	15.98	35.34	7.08	19.16
938		2½ mi ne Cooksville	T 14, R 19 e, Sec 28..	Subsoil of 937	8	....	....	5.55	7.05	66.90	.057	18.66	.835	.048	.257	.053	.....	5.16	7.46	13.03	21.54	8.57	31.83
939		Fox Trap Prairie, J Binion	T 14, R 19 e, Sec —..	Black prairie	6	....	250	7.77	12.05	55.08	.056	21.94	.156	.189	.478	.153	....	17.05	7.09	4 45	18.28	10.20	22.96
940		10 mi e Macon	T 15, R 19 e, Sec —..	Black prairie	5	....	250	7.10	9.92	60.84	.143	19.57	.145	.121	.463	.....	.....	4.60	10.24	5.03	29.17	8.33	25 48
941		10 mi e Macon	T 15, R 19 e, Sec —..	Black prairie	6	....	333	4 93	8.16	69.12	.174	16.23	1.130	.121	.426	.....	.....	4.61	5.60	15 04	37.51	8.41	16.23
942		Cliftonville	T 16, R 18 e, Sec 16..	Ash prairie	6	....	250	6.82	7.41	62.64	.103	20.63	1.18	.263	.400	.....	.....	7.88	8.94	12.18	23.63	9.49	23.67
943		S D Lee, Cliftonville	T 16, R 18 e, Sec 16..	Ash prairie, after melilotus	5	....	333	5.08	8.36	43.91	.085	15.81	15.57	.302	.500	....	8.00	7.52	6.46	11.04	25 76	9.50	18.70
944		S D Lee, Cliftonville	T 16, R 18 e, Sec 16..	Prairie bottom, black	5	....	333	6.83	9.64	56.49	.179	18.01	5.24	.321	.509	....	.....	1.33	8.45	11.29	21.63	7.28	31.31
945		S D Lee, Cliftonville	T 16, R 18 e, Sec 16..	Lime-pebble prairie	6	....	250	6.31	10.17	55.41	.123	19.48	5.15	.296	.574	....	7.41	7.42	8.60	11.05	23.26	6.46	20.88
946		S D Lee, Cliftonville	T 16, R 18 e, Sec 16..	Postoak prairie	4	....	250	5 27	7.73	65 07	.071	21.13	.945	.105	.450	.....	.....	4.21	6.83	12.35	29.90	7.70	26.72
948		2 mi w Deerbrook	T 16, R 17 e, Sec 13..	Black prairie	6	....	166	5.25	8.81	62.89	.096	17.48	.990	.046	.360	.....	.....	5.04	6.48	11.06	27.83	7.63	29.25
949		3 mi e Brooksville	T 16, R 17 e, Sec 14..	Postoak prairie	4	....	125	4.95	7.17	67.17	.086	21.28	.485	.105	.372	.....	.....	7.26	2.80	10.70	28.34	6.95	32.45
950		3 mi e Brooksville	T 16, R 17 e, Sec 14..	Subsoil of 949	8	....	....	4.91	6.25	68.39	.117	18.86	.535	.051	.346	.....	.....	2.98	1.66	7.45	36.81	7.82	33.32
951		3 mi n Brooksville	T 16, R 17 e, Sec 5...	Postoak prairie	3	....	100	1.17	4.18	82.39	.050	10.86	.325	.079	.245	.....	.....	13.99	18.31	18.01	33.24	2.76	7.80
952		3 mi n Brooksville	T 16, R 17 e, Sec 5	Subsoil of 951	6	....	....	2.55	4.31	78.43	.063	13.33	.290	.067	.243	.....	.....	7.36	9.81	10.76	38.77	6.01	19.75
1153	Lowndes.	Steve Thrower, Mayhew	T 19, R 16 e, Sec 5....	Prairie bottom, yellow	8	....	....	5.37	8.75	66.10	.134	13.23	3.56	.111	.358	.122	.....	1.55	7.46	18.65	35 45	4.79	16.08
1154		Steve Thrower, Mayhew	T 19, R 16 e, Sec 5	Black prairie, Johnson grass	10	....	....	4.90	9.90	62.62	.132	14.99	3.71	.140	.387	.110	.....	9.67	13.10	14.07	22.44	5.37	19.14
1155		Steve Thrower, Mayhew	T 19, R 16 e, Sec 5....	Postoak prairie	4	....	250	4.83	7.72	69.64	.137	15.39	.315	.093	.283	.070	.....	6.39	10.31	15.18	21.56	5.30	27.28
1156		Steve Thrower, Mayhew	T 19, R 16 e, Sec 5....	Subsoil of 1155	8	....	....	6.73	8.22	62.80	.169	19.61	.370	.050	.375	.030	.....	3.50	6.42	9.86	16.42	4 25	44.32
1157		Steve Thrower, Mayhew	T 19, R 16 e, Sec 5....	Postoak prairie, improved	6	....	500	3.16	8.58	72.91	.275	12.71	.360	.123	.268	.140	.....	9.12	12.19	14.77	25.42	4.55	21.92
526	Oktibbeha.	Hort Depart College	T 18, R 14 e, Sec 1....	Subsoil, black, original surf.	30	....	....	....	7.33	81.3	.20	8.9	.55	33	.45	.....	.....	.....	.....	.....	.....	.....	.....
581		W L Hutchinson, College	T 18 R 14 e, Sec 12	Sandy upland	6	....	125	.70	2.20	89.94	.16	5.98	.11	.096	.39	.....	9.92	35.17	24.49	12.05	10.66	.56	4.34
582		W L Hutchinson, College	T 18, R 14 e, Sec 12....	Black subsoil	15	....	....	3.05	7.48	75.48	.01	11.81	.85	.29	.49	....	1.00	13.64	11.22	15.12	31.36	3.21	14.17
583		W L Hutchinson, College	T 18 R 14 e, Sec 12....	Subsoil red upland	9	....	....	3.60	5.66	73.74	.063	15.11	.315	.247	.38	.....	.....	.....	.....	.....	.....	.....	.....
584		W L Hutchinson, College	T 18, R 14 e, Sec 12....	Black upland	4	30	300	3.14	6.81	71.61	.10	14.58	1.06	.57	.92	....	1.62	26.02	17 81	12.43	17.88	2.26	13.08
585		W L Hutchinson, College	T 18, R 14 e, Sec 12	Branch bottom	7	60	....	2.75	5.18	79 55	.09	10.66	.63	.30	.46	....	3.25	14.75	12.53	21.23	27.05	1.64	13.71
586		W L Hutchinson, College	T 18, R 14 e, Sec 12....	Yellow upland, pasture	12	10	....	2.16	3.22	85.00	.04	8.78	.235	.115	.210	....	3.52	17.80	18.92	12.21	5.50	1.84	13.37

	tion plat, E Laboratory ...	T 18, R 14 e, Sec 1....	Branch bottom, sandy ...	6	....	300	.88	2.08	91.59	.091	5.08	.180	.14	.177	.....	3.50	24.14	32.29	15.53	16.19	1.81	4.57	
59	ort Dept. near old pckg. house	T 18, R 14 e, Sec 1....	Branch bottom	6	...	200	.68	2.53	89.83	.078	6.19	.23	.108	.20	.....	4.10	24.11	24.26	13.98	21.30	3.42	6.21	
595	Hort Dept n'r new pckg. house	T 18, R 14 e, Sec 1....	Red upland	4	10	166	1.65	3.76	84.21	.079	9.40	.19	.229	.42	.....	11.35	21.35	19.63	14.90	14.59	2.98	11.57	
596	Hort Dept n'r new pckg. house	T 18, R 14 e, Sec 1....	Subsoil of 595	10	....	....	3.28	5.03	73.82	.090	15.84	.175	.345	.58	.....	.....	.....	.....	.....	.....	.....	.....	
597	Corn plat, Steward's Dept....	T 19, R 14 e, Sec 1....	Branch bottom or valley	6	50	....	1.58	3.86	84.93	.....	8.62	.32	.147	.165	.....	.....	.....	.....	.....	.....	.....	.....	
598	Corn plat, Steward's Dept....	T 19, R 14 e, Sec 1....	Subsoil of 597	14	....	....	2.49	4.74	82.98	.105	8.96	.483	.185	.164	...	3.50	7.47	15.60	27.05	27.87	4.66	8.26	
617	John Ervin, Muldrow.....	T 19, R 15 e, Sec 1....	Second bottom, Tibbee Creek	5	40	300	4.03	7.26	73.90	.044	12.03	1.88	.144	.30	.....	.....	.....	.....	.....	.....	.....	.....	
619	John Ervin, Muldrow	T 19, R 15 e, Sec 1....	Made bottom W. Canal.....	5	30	350	1.30	2.64	90.70	.062	4.49	.88	.07	.16	.....	.....	.....	.....	.....	.....	.....	.....	
620	John Ervin, Muldrow.....	T 19, R 15 e, Sec 1....	Ash Creek bottom, east... ..	5	30	300	3.22	7.73	67.20	.044	12.18	5.90	.093	.28	.....	.....	.....	.....	.....	.....	.....	.....	
621	John Ervin, Muldrow..	T 19, R 15 e, Sec 1....	Ash Creek bottom, west ...	5	35	300	4.63	8.23	69.59	.114	15.79	1.03	.262	.36	.....	.....	.....	.....	.....	.....	.....	.....	
622	H L Muldrow, Muldrow.....	T 19, R 15 e, Sec 2....	Ash Creek bottom, near well	4	....	350	2.68	6.25	79.11	.143	10.55	.38	.108	.21	...	.....	.....	.....	.....	.....	.....	.....	
623	H L Muldrow, Muldrow	T 19, R 15 e, Sec 2....	Subsoil of 622, yellow	10	....	....	3.34	5.13	76.98	.111	15.36	.235	.088	.24	.....	.....	.....	.....	.....	.....	.....	.....	
624	H L Muldrow, Muldrow.....	T 19, R 15 e, Sec 2	Made bottom, sandy	6	....	400	2.28	4.04	82.33	.126	10.15	.21	.105	.21	...	.....	.....	.....	.....	.....	.....	.....	
1032	Station plat near White's....	T 18, R 14 e, Sec 1....	Yellow upland	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.45	27.00	22.46	14.20	24.05	1.55	5.26	
1106	Josey Creek bottom.....	T 19, R 14 e, Sec 29..	Stiff lime soil.....	6	....	300	8.68	10.50	58.24	.160	10.71	2.69	.328	.491	.205	.....	2.15	8.01	12.14	31.96	6.08	20.48	
1107	Trim Cane bottom	T 18, R 13 e, Sec 24..	Virgin soil.....	.....	.....	....	8.50	7.15	69.18	.108	13.35	.265	.143	.470	.145	.....	3.08	4.01	7.31	26.92	9.84	33.19	
1108	Branch bottom	T 18, R 14 e, Sec 28..	Dark loam	8	....	...	3.47	7.15	73.70	.140	11.42	2.25	.274	.423	.105	.....	1.59	10.85	32.16	30.35	3.70	10.72	
1117	3 mi e Starkville.....	T 18, R 15 e, Sec 3....	East bottom Sand Creek....	8	....	500	5.05	5.08	65.84	.108	11.66	.950	.086	.360	.100	.....	10.71	19.36	12.74	20.25	5.73	20.40	
1118	M F Ames, 3 mi e Starkville..	T 19, R 15 e, Sec 3....	West bottom Sand Creek....	8	....	375	3.41	5.91	58.60	.095	8.97	12.52	.121	.480	.09	.....	.....	.....	.....	.....	.....	.....	
1119	Hort Dept near Bardwell's....	T 18, R 14 e, Sec 1....	Yellow upland	6	....	200	1.46	3.04	89.33	.135	5.42	.117	.105	.181	.....	.....	19.41	23.35	18.52	22.85	2.93	8.38	
1120	Hort Dept near Bardwell's....	T 18, R 14 e, Sec 1....	Subsoil of 1119.....	10	....	....	8.71	4.74	72.85	.061	12.39	.065	.180	.250	.....	.....	9.65	12.33	11.39	22.82	3.56	26.61	
1121	Ames & Perkins, near College.	T 18, R 14 e, Sec 1....	Yellow upland	8	....	300	.64	2.82	92.28	.061	3.62	.175	.097	.152	.....	.....	24.57	30.79	15.09	21.82	2.30	3.73	
1122	C T Ames, near College.... ..	T 18, R 14 e, Sec 13....	Virgin yellow upland.....	8	....	....	2.39	3.68	88.82	.075	4.53	.100	.083	.150	.....	.....	19.25	18.05	16.62	24.17	8.87	5.68	
1111	Love place, 1 mi se Osborn....	T 19, R 15 e, Sec 23...	Black prairie.....	6	....	375	5.00	7.00	72.83	.102	12.96	.800	.055	.215	.107	...	4.83	4.71	23.74	36.65	4.09	13.98	
1112	Love place, 1 mi se Osborn ...	T 19, R 15 e, Sec 23....	Subsoil of 1111.....	14	....	....	8.15	8.13	64.23	.087	17.72	.670	.044	.302	.050	...	2.65	2.33	14.98	29.21	4.16	30.39	
1113	Garth-Cannon place	T 19, R 15 e, Sec 24...	Black prairie	8	30	..	7.42	7.50	66.36	.116	16.84	1.06	.070	.305	.108	...	1.78	6.05	16.32	28.50	6.50	26.87	
1280	6 mi e Starkville.....	T 19, R 15 e, Sec 32....	Black prairie, unproductive.,	10	8	....	4.00	6.89	70.04	.050	16.04	.960	.075	.270	.128	.....	10.74	13.89	16.33	26.42	3.52	17.50	
1123	C T Ames, near College.....	T 18, R 14 e, Sec 13...	Subsoil	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16.15	15.26	14.36	28.66	3.38	14.84	
1124	Dr Ames, near College.....	T 18, R 14 e, Sec 12...	Yellow upland, poor.....	4	....	100	6.39	4.00	77.57	.051	10.58	.260	.332	.454	.....	.....	18.79	17.59	15.29	10.32	3.33	17.35	
1125	Dr Ames, near College	T 18, R 14 e, Sec 12....	Subsoil of 1124	8	....	...	10.26	5.20	69.64	.047	14.23	.230	.403	.422	.	.....	12.95	11.99	10.06	19.41	3.50	25.44	
1126	Station plat, near Magruder's.	T 18, R 14 e, Sec 1....	Yellow upland	5	....	250	2.26	3.17	87.22	.042	6.88	.170	.119	.177	...	...	17.67	19.57	16.48	26.91	3.36	9.88	
1127	Station plat, near Magruder's.	T 18, R 14 e, Sec 1....	Subsoil of 1126	10	....	....	9.66	5.75	69.16	.083	14.51	.210	.195	.285	.....	.....	7.13	8.78	11.68	21.64	4.73	28.68	
1114	Garth's place.....	T 19, R 15 e, Sec 25...	Prairie bottom	12	....	....	6.52	8.56	63.52	.185	18.29	1.20	.114	.398	.130	.....	3.33	6.70	13.27	25.24	8.75	26.67	
1115	1 mi n Hickory Grove..	T 19, R 15 e, Sec 35...	Prairie bottom, bermuda	6	....	....	5.50	6.39	74.24	.106	11.72	.800	.080	.262	.115	.....	5.73	19.65	18.02	21.72	4.36	18.38	
1116	1 mi n Hickory Grove	T 19, R 15 e, Sec 35...	Subsoil of 1115	12	....	....	6.24	6.15	72.86	.100	12.27	.830	.083	.293	.065	.....	1.90	18.07	21.30	23.96	4.18	17 50	
1158	2½ mi e West Point.....	T 17 s, R 7 e, Sec 17 .	Postoak prairie bottom.....	8	....	500	4.39	6.33	75.35	.142	11.26	.940	.188	.331	.102	.....	6.59	7.70	22.21	24.75	8.61	18.83	
1159	5 mi ne West Point..... ...	T 17 s, R 7 e, Sec 4....	Postoak pra.. impr. by clover	6	....	500	4.47	5.00	79.25	.079	9.89	.650	.051	.193	.055	.....	11.36	14.77	20.07	19.18	5.98	19.28	
1160	5 mi ne West Point.....	T 17 s, R 7 e, Sec 4....	Subsoil of 1159.....	10	....	...	3.91	5.11	78.70	.116	11.10	.590	.051	.218	.042	...	10.06	12.17	18.95	21.42	5.48	23.35	
1161	5 mi ne West Point.....	T 17 s, R 7 e, Sec 4....	Black prairie bottom	8	50	....	6.47	8.42	67.99	.108	14.51	1.53	.184	.395	.104	.....	3.04	6.27	19.25	22.57	10.22	22.81	
1162	5 mi ne West Point	T 17 s, R 7 e, Sec 4....	Black prairie	8	....	500	5.45	8.55	68.21	.074	14.17	1.24	.244	.369	.114	.....	5.76	12.80	24.87	20.44	5.20	16.12	
1163	5 mi ne West Point.....	T 17 s, R 7 e, Sec 4....	Black pra. near Town Creek.	10	..	500	6.85	10.50	61.52	.075	17.30	1.36	.207	.302	.100	.....	12.58	9.72	10.94	17.09	8.47	23.23	
1165	6 mi n West Point.....	T 16 s, R 6 e, Sec 22.	Postoak prairie	4	....	125	3.89	6.22	76.39	.085	12.08	.430	.113	.258	.088	.....	6.86	4.86	21.44	34.10	5.35	16.84	
1166	6 mi n West Point..... ...	T 16 s, R 6 e, Sec 22..	Subsoil of 1165.....	10	....	....	6.89	7.21	66.73	.098	17.06	.430	.064	.349	.058	.....	5.00	6.25	14.16	23.13	4.28	32.90	
1167	¼ mi s Muldon	T 16 s, R 6 e, Sec 3..	Black prairie bottom	10	....	....	6.35	11.33	60.44	.130	18.48	1.82	.191	.502	.154	1.27	16.63	9.76	9.80	17.81	6.42	20.74	
1168	1 mi ne Muldon	T 15 s, R 6 e, Sec 26...	Black prairie	10	....	166	5.72	8.93	67.00	.102	15.73	1.11	.109	.364	.124	.....	6.62	11.45	18.53	24.84	4.86	19.02	
1170	2 mi e Prairie Holliday)	T 15 s, R 6 e, Sec 1....	Postoak prairie, melilotus	5	....	....	7.50	9.83	55.08	.174	25.27	6.26	.174	.401	.118	.....	3.50	7.60	12.03	21.89	10.60	19.77	
1173	2 mi e Prairie Holliday).....	T 15 s, R 6 e, Sec 1....	Subsoil of 1172.....	12	....	....	5.76	7.16	36.11	.102	17.81	21.00	.115	.340	.102	.....	2.14	6.21	8.88	18.33	11.31	26.41	
1174	3 mi w Prairie Holliday).....	T 15 s, R 6 e, Sec 6..	Black prairie	6	30	....	7.38	8.81	62.44	.062	11.83	1.59	.089	.208	.128	.....	5.51	9.56	14.29	24.72	9.00	24.62	
1175	½ mi e Gibson.....	T 14 s, R 6 e, Sec 28 .	Black prairie bottom	8	....	250	6.61	7.86	68.70	.029	9.92	.680	.153	.370	.144	.....	2.17	7.37	8.68	34.75	9.02	23.16	
1178	6 mi s Okolona, Chickasaw Co.	T 13 s, R 5 e, Sec 23..	Black prairie bottom	8	....	500	7.30	8.51	67.11	.042	14.84	1.06	.115	.305	.162	.....	3.62	7.82	12.15	34.67	3.86	21.55	
1179	1 mi n Okolona, Chickasaw Co.	T 12 s, R 5 e, Sec 24..	Gray prairie, Johnson grass.	8	....	....	4.00	5.21	77.68	.036	11.60	.615	.036	.198	.106	.....	7.88	10.80	30.66	28.68	1.36	11.38	
1180	2 mi ne Okolona, Chickasaw Co	T 12 s, R 5 e, Sec 13.	Black prairie, exhausted....	8	8	....	5.50	6.18	74.05	.054	11.98	.890	.054	.258	.131	.....	7.70	9.91	23.66	30.83	1.65	14.01	

Oktibbeha Clay Monroe

Soils of the Northeastern Prairie Region.

Lab. No.	County.	Location of Land; Address of Owner.	Township, Range and Section.	Character of Soil.	Showing Depth in In. Sample was Taken.	APPROX. Yield per Acre Unfertilized		Chemical Analysis.										Physical Analysis.						
						Corn in Bushels	Cotton, lbs. lint.	Moisture.	Volatile and Organic Matter.	Insoluble Matter.	Soluble Silica.	Iron and Alumnia Oxide.	Calcium Oxide Lime.	Phosphoric Acid.	Potash.	Nitrogen.	Gravel.	Sand.	Fine Sand.	Very Fine Sand.	Silt.	Fine Silt.	Clay.
1181	Chickasaw	3 mi n Okolona	T 12 s, R 5 e, Sec 11	Taliponela bottom, gray	12	40	....	6.50	9.69	60.57	.064	13.66	5.80	.140	.402	.192	....	9.78	6.41	12.12	29.29	3.62	20.20
1182		4 mi s Shannon	T 12 s, R 5 e, Sec 1	Yellow upland	4	....	100	1.85	2.42	90.06	.057	5.05	.160	.047	.135	.040	....	17.58	27.18	26.69	15.15	1.78	7.40
1183		4 mi s Shannon	T 12 s, R 5 e, Sec 1	Subsoil of 1182	10	....	....	4.77	3.53	80.19	.041	10.50	.110	.066	.249	.036	....	10.03	18.12	16.60	20.71	2.91	23.83
1274		J W Hamilton, Houlka	T 12 s, R 3 e, Sec 21	Red upland Pontotoc ridge	6	15	....	1.17	3.39	87.41	.020	7.40	.110	.056	.189	.062	....	17.36	6.07	22.07	28.31	4.76	12.25
1275		J W Hamilton, Houlka	T 12 s, R 3 e, Sec 21	Subsoil of 1274	12	....	....	2.46	4.00	81.72	.053	10.97	.150	.041	.283	.048	....	9.94	3.69	19.15	36.27	5.24	19.60
1276		8 mi n Houston	T 13 s, R 3 e, Sec 4	Ridge land, poor	5	....	125	1.26	3.50	88.07	.056	6.46	.150	.064	.262	.070	....	5.18	3.49	17.81	56.35	4.27	8.75
1277		8 mi n Houston	T 13 s, R 3 e, Sec 4	Subsoil of 1276	....	....	....	1.78	3.49	84.97	.055	8.80	.110	.064	.306	.070	....	5.76	2.63	13.99	51.20	4.96	15.79
1184		3 mi s Shannon	T 11 s, R 5 e, Sec 36	Taliponela bottom	8	40	....	5.38	7.32	70.56	.091	13.11	1.20	.160	.385	.146	....	13.97	19.00	16.11	19.47	5.63	12.11
1185		¼ mi s Shannon	T 11 s, R 6 e, Sec 19	Stiff creek bottom	8	....	375	4.95	6.83	73.68	.080	12.14	.815	.134	.340	.162	....	28.15	13.25	6.99	17.65	6.74	16.79
1186		3 mi w Shannon, Rogers	T 11 s, R 5 e, Sec 21	Black prairie, rusts cotton	8	25	....	6.18	8.50	67.86	.145	13.56	1.61	.210	.321	.240	....	11.68	14.45	15.34	24.81	4.18	13.42
1187		3 mi w Shannon, Rogers	T 11 s, R 5 e, Sec 21	Yellow upland	4	....	250	1.27	3.34	85.44	.105	3.71	3.27	.210	.216	.100	1.72	10.74	20.14	20.70	34.99	1.41	3.44
1188		3 mi w Shannon, Rogers	T 11 s, R 5 e, Sec 21	Subsoil of 1187	10	....	....	1.34	2.23	89.65	.089	5.27	.585	.064	.172	.050	....	11.56	21.60	19.64	31.13	2.16	9.59
1189		3 mi w Shannon, Rogers	T 11 s, R 5 e, Sec 21	Black prairie	....	....	250	5.47	7.87	71.64	.160	12.27	1.27	.237	.297	.195	....	10.17	13.76	19.25	27.55	3.67	11.34
1190		2 mi w Shannon, Rogers	T 11 s, R 5 e, Sec 22	Chiwappa creek bot'm, stiff	12	50	....	5.55	7.11	70.72	.143	13.16	1.47	.194	.395	.158	....	10.93	17.02	9.38	27.02	6.51	15.44
1191		1 mi w Shannon	T 11 s, R 5 e, Sec 23	Chiwappa creek bot'm, light	5	....	250	1.73	3.77	88.03	.098	5.30	.235	.068	.157	....	....	9.95	40.21	11.98	20.69	2.93	8.02
1192		1 mi w Shannon	T 11 s, R 5 e, Sec 23	Subsoil of 1191	10	....	....	2.16	2.61	88.74	.044	5.79	.190	.048	.132	.056	....	9.74	37.83	19.47	14.28	2.58	11.20
1193		1 mi n Shannon	T 11 s, R 6 e, Sec 18	Creek bottom	10	....	500	5.73	7.72	68.05	.074	15.04	.940	.185	.402	.136	....	8.70	26.97	10.79	13.24	7.97	17.93
1194		2½ mi n Shannon	T 11 s, R 6 e, Sec 6	Creek bottom, light	8	....	500	3.35	6.30	78.94	.064	9.78	.470	.118	.269	.154	....	4.08	17.79	25.30	26.74	5.79	10.02
1195		2½ mi n Shannon	T 11 s, R 6 e, Sec 6	Subsoil of 1194	10	....	....	3.56	5.67	79.72	.060	9.84	.450	.102	.279	.114	....	5.02	23.91	18.04	23.99	5.79	14.18
1200		2 mi n Tupelo	T 9 s, R 6 e, Sec 20	Town Creek bottom, black	6	....	500	1.26	4.36	85.26	.070	5.62	.500	.083	.200	.084	....	3.78	43.30	19.10	16.60	3.90	8.22
1201		2 mi n Tupelo	T 9 s, R 6 e, Sec 20	Subsoil of 1200	12	....	....	5.74	12.44	60.53	.050	20.49	.970	.100	.520	.155	....	5.64	9.85	6.03	21.38	3.52	23.62
1202		3 mi s Saltillo	T 9 s, R 6 e, Sec 4	Mud Creek bottom, black	8	60	....	2.13	4.54	85.62	.060	7.10	.340	.076	.250	.089	....	3.52	34.32	20.65	21.18	4.74	10.16
1203		3 mi s Saltillo	T 9 s, R 6 e, Sec 4	Subsoil of 1202	12	....	....	6.19	12.11	58.23	.100	20.78	.750	.230	.490	.170	....	2.93	7.52	6.45	21.06	15.09	29.05
1204		4 mi s Guntown	T 8 s, R 6 e, Sec 10	Yellow upland, forest	3	....	....	.58	2.31	93.23	.099	3.49	.053	.032	.096	.043	....	25.56	21.40	10.37	32.39	2.70	5.33
1205		4 mi s Guntown	T 8 s, R 6 e, Sec 10	Subsoil of 1204	12	....	....	1.76	3.47	86.01	.060	7.97	.050	.044	.214	.042	....	9.61	19.64	8.39	26.42	16.11	14.60
1206		½ mi n Guntown	T 7 s, R 6 e, Sec 15	Stiff beeswax prairie	6	....	....	2.85	6.76	63.32	.096	9.03	9.63	.253	.179	.126	2.65	13.58	30.87	19.85	7.13	3.48	8.00
1207		1 mi e Baldwyn	T 7 s, R 7 e, Sec 6	Clay subsoil	24	....	....	5.60	8.19	71.09	.095	14.42	.34	.051	.252	.182	....	.35	6.61	8.26	26.76	8.24	35.93
1209		1 mi e Baldwyn	T 7 s, R 7 e, Sec 6	Creek bottom, sandy	6	50	....	.93	3.57	90.60	.161	4.05	.160	.055	.129	.110	....	....	....	....	....	....	....
1210		1 mi e Baldwyn	T 7 s, R 7 e, Sec 6	Subsoil of 1209	12	....	....	.80	2.45	91.23	.083	4.67	.085	.072	.129	.074	....	....	....	....	....	....	....
1213		1½ mi e Baldwyn, Richardson	T 7 s, R 7, e, Sec 6	Sandy upland, repres'nt'tive	4	....	....	.74	2.18	93.13	.060	3.42	.030	.025	.086	.052	....	8.76	25.18	19.69	34.36	2.18	6.75
1214		1½ mi e Baldwyn, "	T 7 s, R 7 e, Sec 6	Subsoil of 1213	12	....	....	.64	2.47	91.47	.085	4.77	.070	.025	.143	.047	....	....	....	....	....	....	....
1211	Prentiss.	1 mi e Baldwyn, "	T 6 s, R 7 e, Sec 31	Creek bottom, east, loam	6	....	375	2.77	4.65	82.49	.087	8.07	.510	.090	.220	.116	....	1.90	40.74	18.90	17.88	3.93	8.50
1212		1 mi e Baldwyn, "	T 6 s, R 7 e, Sec 31	Subsoil of 1211	12	....	....	2.91	4.00	83.93	.081	7.69	.300	.089	.181	.094	....	.82	30.79	23.54	20.75	3.06	13.25
1217		5 mi n Baldwyn, Price	T 6 s, R 6 e, Sec 13	Postoak ridge, beeswax	3	....	....	1.37	3.77	87.54	.059	6.36	.190	.036	.098	.100	....	3.22	8.73	51.08	17.78	2.46	11.59
1218		5 mi n Baldwyn, Price	T 6 s, R 6 e, Sec 13	Subsoil of 1217	12	....	....	5.37	10.44	60.98	.100	21.12	.625	.038	.239	.100	....	2.83	15.49	13.96	8.53	2.46	39.00
1219		4 mi s Booneville	T 5 s, R 7 e, Sec 33	Sandy upland, represent'tive	7	....	....	.63	2.10	93.06	.049	3.60	.120	.043	.103	.064	....	22.06	29.50	23.52	14.66	1.85	5.12
1220		4 mi s Booneville	T 5 s, R 7 e, Sec 33	Subsoil of 1219	12	....	....	.62	1.99	92.83	.057	4.10	.070	.039	.121	.050	....	22.08	27.89	22.84	15.30	1.92	7.18
1221		Dr Price, Booneville	T 5, R 7 e, Sec 16	"Buckshot" soil, gravel	7	....	....	.91	2.50	92.83	.054	3.36	.120	.065	.102	.054	2.69	11.56	14.67	25.90	34.75	3.96	5.23

1222		Dr Price, Booneville	T 5, R 7 e, Sec 16	Subsoil of 1221	12			1.20	2.21	90.98	.070	5.02	.100	.029	.083	.018		10.32	13.54	25.40	34.95	4.53	10.31
1223		Dr Price, Booneville	T 5, R 7 e, Sec 16	Ash prairie, pasture	6			4.68	11.14	56.45	.083	11.30	11.93	.329	.321	.126		2.74	11.30	29.92	19.81	1.85	13.27
1224		Dr Price, Booneville	T 5, R 7 e, Sec 16	Subsoil of 1223	12			4.92	12.62	41.69	.068	12.40	19.78	.151	.418	.078		1.70	7.79	15.98	17.05	2.42	25.81
1225		Dr Price, Booneville	T 5, R 7 e, Sec 16	Beeswax prairie	6			7.33	5.40	66.51	.065	16.26	.810	.129	.226	.096		2.96	7.54	21.56	15.50	5.89	32.96
1226		Dr Price, Booneville	T 5, R 7 e, Sec 16	Subsoil of 1225, jointed clay	12													2.54	6.64	10.47	11.32	9.97	39.82
1227		Dr Price, Booneville	T 5, R 7 e, Sec 16	Upland loam	8			3.24	3.97	81.39	.070	8.39	.340	.174	.273	.088		10.62	38.06	18.02	9.00	3.23	13.78
1228		Dr Price, Booneville	T 5, R 7 e, Sec 16	Subsoil of 1227	15			3.00	6.87	74.83	.041	13.81	.310	.249	.453	.044		11.72	33.64	8.44	3.78	2.91	30.09
1229		1 mi e Booneville	T 5 s, R 7 e, Sec 11	Blackjack ridge, sandy, fo'st	4			.92	3.03	91.98	.095	3.59	.070	.009	.105	.080	2.36	5.63	17.37	24.84	37.61	2.01	6.08
1230		1 mi e Booneville	T 5 s, R 7 e, Sec 11	Subsoil of 1229	12			1.07	2.40	91.42	.080	4.85	.060	.006	.098	.048	2.40	5.00	12.19	25.25	38.94	2.61	9.66
1234		7 mi n Booneville	T 4 s, R 7 e, Sec 2	Blackjack ridge, sandy	8			.72	2.06	93.63	.093	3.39	.072	.018	.088	.026		7.96	18.63	18.51	44.03	3.45	5.67
1235		7 mi n Booneville	T 4 s, R 7 e, Sec 2	Subsoil of 1234	15			1.82	2.95	86.76	.100	7.85	.060	.035	.152	.028		7.05	14.95	23.29	32.68	3.48	13.53
1250		7 mi n Blackland	T 4 s, R 6 e, Sec 4	Sandy white soil	5	12		.62	2.61	93.00	.064	3.16	.205	.027	.089	.058	.80	8.10	29.00	31.52	21.63	2.09	3.69
1251		7 mi n Blackland	T 4 s, R 6 e, Sec 4	Subsoil of 1250	11			.50	1.76	93.65	.048	3.65	.140	.027	.130	.044		6.36	27.23	32.79	22.64	2.23	6.41
1253		6 mi w Booneville, Jones	T 5 s, R 6 e, Sec 9	Black bottom, typical	8		500	3.00	5.59	78.61	.137	9.79	1.32	.092	.359	.090							
1254		6 mi w Booneville	T 5 s, R 6 e, Sec 9	White upland, sandy loam	6		166	1.03	2.05	93.05	.122	3.59	.160	.051	.122	.050							
1255		6 mi w Booneville	T 5 s, R 6 e, Sec 9	Subsoil of 1254	12			.64	2.40	90.33	.084	5.81	.155	.056	.162	.016							
1256		1 mi s Blackland	T 5 s, R 6 e, Sec 16	Creek bottom, black	9		500	3.22	6.33	79.26	.102	8.47	1.05	.114		.126							
1257		¼ mi n Geeville	T 6 s, R 6 e, Sec 9	Twenty-Mile Creek bottom	12		375	4.47	8.31	70.84	.127	13.31	.830	.140	.565	.140		2.90	19.41	18.99	26.03	4.79	14.90
1258		1 mi sw Geeville	T 6 s, R 6 e, Sec 17	"Rawhide" land, subsoil	12			4.76	4.48	73.82	.090	14.82	.100	.042	.239	.052		2.77	5.24	16.73	32.23	6.16	26.51
1241		4 mi se Corinth	T 2 s, R 7 e, Sec 17	Tuscumbia River bottom	10			1.20	4.85	86.88	.076	5.84	.235	.071	.147	.146		3.02	9.58	34.69	34.60	2.86	7.96
1242		4 mi se Corinth	T 2 s, R 7 e, Sec 17	Subsoil of 1241	18			1.89	5.58	84.79	.110	7.35	.190	.067	.131	.120							
1245		1 mi e Kossuth	T 2 s, R 6 e, Sec 24	Creek bottom, white	10			1.50	3.25	89.17	.050	5.57	.245	.051	.185	.049		5.99	22.56	21.10	33.28	4.30	8.29
1247		¾ mi w Kossuth	T 2 s, R 6 e, Sec 27	Subsoil, surface light gray	12		100	.63	2.20	92.80	.048	4.36	.175	.040	.129	.070		11.94	24.68	35.45	17.36	2.11	5.19
1248		6 mi s Kossuth	T 3 s, R 6 e, Sec 9	Surface light gray	6		250	.81	2.82	91.20	.067	4.46	.140	.050	.157	.060		.90	19.98	35.63	31.38	2.30	5.90
1249		6 mi s Kossuth	T 3 s, R 6 e, Sec 9	Subsoil of 1248	12			1.15	2.61	88.34	.070	6.98	.120	.045	.208	.064		.77	13.16	28.25	37.45	3.91	12.56
1259		4 mi w Graham	T 6 s, R 4 e, Sec 11	Gray upland, red subsoil	2			1.22	4.83	89.40	.035	3.74	.125	.036	.107	.098		15.81	19.20	13.95	36.73	3.86	4.16
1261		9 mi ne New Albany	T 6 s, R 4 e, Sec 29	Creek bottom, sandy	6		500	1.32	4.77	86.58	.068	7.35	.190	.048	.276	.058		2.99	53.95	16.68	12.76	2.18	5.82
1262		9 mi ne New Albany	T 6 s, R 4 e, Sec 29	Subsoil, from roadside	12			6.56	7.89	58.02	.086	25.69	.130	.064	.238	.058		.48	8.63	9.78	11.21	6.80	47.43
1263		2 mi ne New Albany	T 7 s, R 3 e, Sec 2	Sandy soil	4		166	.82	2.74	90.76	.076	4.99	.160	.035	.187	.080		8.34	15.24	34.58	28.65	2.74	6.13
1264		2 mi ne New Albany	T 7 s, R 3 e, Sec 2	Subsoil of 1263	10			1.41	2.77	87.52	.054	7.28	.160	.033	.265	.056		5.10	4.54	35.11	34.14	3.24	13.03
1265		2 mi ne New Albany	T 7 s, R 3 e, Sec 2	Surface, level	8		250	.78	2.72	91.20	.087	4.53	.190	.038	.170	.092		2.82	7.02	44.82	34.48	1.91	4.73
1266		4 mi se New Albany	T 7 s, R 3 e, Sec 29	Pontotoc ridge, represe'ative	6			1.13	2.90	88.11	.064	6.89	.140	.052	.203	.066		13.31	10.75	30.32	28.60	2.90	9.73
1267		4 mi se New Albany	T 7 s, R 3 e, Sec 29	Subsoil of 1266	14			2.34	3.15	83.10	.056	10.17	.150	.057	.359	.040							
1268		8 mi se New Albany	T 8 s, R 3 e, Sec 8	Second bottom of creek	12	30		1.84	3.24	85.56	.066	8.38	.205	.093	.258	.062		3.23	9.39	32.12	34.84	3.50	11.68
1030		Near New Albany		Pontotoc ridge soil, typical				1.02	3.57	90.37	.025	3.95	.110	.024	.190								
1031		Near New Albany		Subsoil of 1030				.83	2.59	85.65	.280	10.00	.230	.064	.459								
1269		9 mi n Pontotoc	T 8 s, R 3 e, Sec 21	Pontotoc Ridge soil, typical	6	30		1.43	3.57	85.56	.058	6.33	.142	.167	.336	.076							
1270		9 mi n Pontotoc	T 8 s, R 3 e, Sec 21	Subsoil of 1269	12			1.83	3.18	84.95	.147	8.63	.310	.103	.381	.052							
1272		6 mi n Pontotoc	T 9 s, R 3 e, Sec 4	Red soil of Pontotoc Ridge	24			2.97	5.28	74.39	.056	16.41	.106	.094	.333	.046		19.65	4.05	11.65	30.66	4.85	25.35
1273		6 mi s Pontotoc	T 11 s, R 3 e, Sec 4	Yellow subsoil	24			2.18	3.84	82.97	.067	10.51	.160	.035	.208	.036		26.94	11.03	11.33	21.30	4.31	19.46
1236		10 mi s Corinth, Alcorn Co	T 3 s, R 7 e, Sec 14	Yellow loam, flat	8		250	1.60	4.41	87.05	.093	6.02	.145	.072	.178	.106		4.70	11.07	18.53	48.89	4.93	4.17
1237		10 mi s Corinth, Alcorn Co	T 3 s, R 7 e, Sec 14	Subsoil of 1236	14			2.00	4.00	83.95	.102	9.18	.100	.055	.227	.063							

Prentiss — Alcorn — Union — Pontotoc

Soils of the Brown and Yellow Loam Region.

Lab. No.	County.	Location of Land; Address of Owner.	Township, Range and Section.	Character of Soil.	Showing Depth in In. Sample was Taken.	Approx. Yield per Acre Unfertilized. Corn, in Bushels.	Approx. Yield per Acre Unfertilized. Cotton, lbs. Lint.	Chemical Analysis. Moisture.	Volatile and Organic Matter.	Insoluble Matter.	Soluble Silica.	Iron and Alumina Oxide.	Calcium Oxide (Lime).	Phosphoric Acid.	Potash.	Nitrogen.	Physical Analysis. Gravel.	Sand.	Fine Sand.	Very Fine Sand.	Silt.	Fine Silt.	Clay.
625	Madison.	A B McKay, Ridgeland	Trucking Section; Lands used generally for Strawberries, Tomatoes, Cabbage, Etc.	Surface. brown loam	6	....	166	.89	3.30	89.73	.13	5.08	.29	.062	.215	... .	4.10	1.19	.94	15.45	64.56	1.92	7.96
626		A B McKay, Ridgeland		Subsoil of 625	15	....	....	.....	. ..	...	....	.....	.....	.....	.....	.....	1.37	2.48	1.19	15.94	51.75	6.76	13.85
627		A B McKay, Ridgeland		Subsoil of 625	36	....	....	.. ..	....	...	.....	.....	.....	.....	.....	.....	1.75	6.16	1.99	10.99	63.41	3.74	6.88
628		A B McKay, Ridgeland		Subsoil of 625	60	....	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....	1.34	.46	8.10	63.31	2.45	16.35
629		Dr H E McKay, Madison		Surface, brown loam	6	....	166	.65	2.47	91.09	.176	4.59	.22	.076	.20	.....	.....	.....	.....	.....	.....	.....	.....
633		Dr H E McKay, Madison		Surface, brown loam	6	....	166	1.50	1.67	90.72	.101	5.23	.17	.083	.170	.....	.....	.....	.....	.....	.....	.....	.....
879		Dr H E McKay, Madison		Bottom, surface soil	6	....	....	.53	2.45	91.51	.062	4.28	.120	.061	.250	.107	.....	1.93	1.27	39.26	48.04	1.70	3.31
880		Dr H E McKay, Madison		Subsoil of 879	15	....	....	.75	2.75	90.73	.080	4.88	.120	.038	.220	.045	....	1.90	1.98	27.45	56.05	2.37	4.57
881		Dr H E McKay, Madison		Light brown loam, surface	6	....	....	.78	2.50	90.31	0.51	5.46	.165	.040	.257	.045	.....	.67	1.36	34.62	51.15	2.53	5.37
882		Dr H E McKay, Madison		Subsoil of 881	12	....	....	1.88	3.24	81.92	.142	10.81	.120	.079	.433	.035	.....	.23	.15	23.30	48.64	5.60	14.74
883		Dr H E McKay, Madison		Worn red hill, subsoil	12	....	....	1.83	3.92	81.84	.065	10.79	.145	.068	.396	.040	....	.87	1.16	20.33	53.24	3.78	14.46
877		J T Dameron, Madison	T 7 R 2 e, Sec 17	Alkali or salt spot	4	..	..	.57	2.45	91.46	.055	4.24	.150	.061	.200	.043	3.75	5.10	5.27	31.68	45.15	1.52	4.95
878		J T Dameron, Madison	T 7, R 2 e, Sec 17	Subsoil of 877	12	....	....	1.26	2.42	89.33	.090	5.90	.170	.020	.280	.035	4.60	2.91	3.17	16.18	53.25	3.48	12.66
884		R C Lee, Madison		Brown surface	8	....	....	.68	3.01	91.25	.065	4.03	.145	.042	.180	.060	.....	1.96	1.52	28.39	58.82	1.80	3.24
885		R C Lee, Madison		Subsoil of 884	12	....	....	1.05	2.84	87.24	.088	7.72	.130	.052	.263	.035	.....	1.44	1.77	20.33	58.76	2.57	11.75
876		2 mi w Ridgeland	T 7 R 1 e, Sec 22	Clay subsoil	60	....	....	2.54	5.57	76.12	.150	13.95	.300	0.22	.326	.005	.....	3.49	27.85	11.98	13.37	7.99	27.06
886		1 mi e Canton	T 9, R 3 e, Sec 19	Gray silt soil	5	....	100	1.05	2.54	90.10	.079	5.40	.265	.039	.225	....	.....	.94	1.59	35.02	51.97	1.97	4.85
887		1 mi e Canton	T 9, R 3 e, Sec 19	Subsoil of 886	8	....	....	2.35	3.47	80.29	.067	10.12	.205	.073	.347	.....	.....	.21	.54	27.57	49.67	2.80	13.25
888		9 mi e Canton	T 9, R 4 e, Sec 17		10	....	...	.93	2.52	88.92	.087	4.64	.225	.045	.150	....	.....	1.16	.89	37.89	50.37	1.79	4.22
890	Leake	18 mi e Canton	T 10, R 5 e, Sec 23	Yellow surface	4	....	....	1.65	3.54	85.23	.093	8.53	.110	.018	.281	....	.....	2.05	5.64	24.18	50.13	3.36	9.47
891		18 mi e Canton	T 10, R 5 e, Sec 23	Subsoil of 890	8	....	....	2.51	3.65	80.53	.100	11.75	.155	.028	.488	....	.....	1.88	2.39	11.27	58.70	5.06	14.86
892		10 mi w Carthage	T 10, R 6 e,	Surface	8	....	.	.82	2.55	91.07	.145	4.88	.110	.019	.160	....	.....	12.23	11.98	16.24	47.14	2 48	6.89
893		10 mi w Carthage	T 10, R 6 e,	Subsoil of 892	60	....	....	1.48	3.52	83.12	.097	11.48	.050	.014	.175	....	.....	28.14	22.35	5.76	19.12	2.19	17.38
894		Bluff e side Yockanookany	T 10, R 6 e, Sec 15	Red sand	36	....	....	.98	2.61	87.68	.100	8.24	.025	.022	.165	....	.....	.....	.....	.....	.....	.....	.....
895		4½ mi w Carthage	T 10, R 7 e, Sec 9	Yellow loam	6	....	....	.31	6.74	94.44	.080	2.75	.05	.016	.093	....	.....	13.45	20.52	15.23	40.78	2.42	5.00
896		4½ mi w of Carthage	T 10, R 7 e, Sec 9	Subsoil of 895	12	For	est	1.12	3.05	84.22	.113	10.23	.06	.029	.310	.01	.....	7.58	13.77	15.62	34.35	2.46	2.79
897	Attala	1 mi n of Kosciusko	T 14, R 7 e, Sec 16	Surface, gray loam	12	....	250	.44	3.57	91.30	.039	4.11	.115	.030	.190	.06	.....	1.90	2.91	27.02	55.91	3.09	4.69
898		4 mi n of Kosciusko	T 15, R 7 e, Sec 35	Surface, gray loam	6	....	125	.61	3.68	89.33	.134	5.61	.210	.044	.229	.06	.....	5.44	5.50	25.24	50.45	3.15	5.45
899		4 mi n of Kosciusko	T 15, R 7 e, Sec 35	Subsoil of 898	12	....	....	1.23	5.73	78.73	.083	13.01	.375	.038	.396	.035	.....	1.65	2.71	15.87	53.91	6.07	12.67
900		8 mi n of Kosciusko	T 15, R 8 e, Sec 19	Branch bottom	4	....	....	.51	3.33	91.59	.051	4.01	.130	.047	.160	.06	2.68	18.71	20.33	9.65	37.42	2.75	4.42
901		8 mi n of Kosciusko	T 15, R 8 e, Sec 19	Subsoil of 900	8	....	....	.71	2.14	91.94	.078	4.61	.077	.027	.155	....	6.43	8.37	12.50	10.47	50.85	2.30	6.03
902		Near Choctaw Co. line	T 16, R 8 e, Sec 12	Sandy loam	6	....	....	.36	1.93	94.09	.062	2.51	.050	.013	.105	.....	....	25.87	20.87	14.73	31 61	.98	3.04
903		Near Choctaw Co. line	T 16, R 8 e, Sec 12	Su soil of 902	12	....	....	.48	1.83	93.13	.065	4.16	.060	.020	.162	.015	.....	24.67	19.71	12.95	28.80	3.13	8.32
904	Choctaw	Chas. Hemphill, French Camp	T 17, R 9 e, Sec 31	Branch bottom	6	....	500	1.03	4.82	87.27	.089	5.94	.160	.075	.240	.110	.....	2.35	6.05	15.09	59.41	3 88	7.04
905		2½ mi ne French Camp	T 17, R 9 e, Sec 28	Surface	6	....	....	.62	3.05	90.61	.051	5.10	.050	.024	.177	.040	1.08	1.08	4 75	21.18	58.26	2.75	7.37
906		J D Perkins, Chester	T 17, R 10 e, Sec 3	Sandy loam	3	....	166	.72	3.59	89.53	.062	5.63	.105	.037	.197	.050	.. .	4.55	2.38	24.30	53.00	3.25	7.43
907		J D Perkins, Chester	T 17, R 10 e, Sec 3	Subsoil of 906	9	....	....	.72	3.86	86.07	.103	8.82	.080	.038	.240	.030	.....	3.10	1 97	20.14	50.80	3.61	15.91
958		1 mi w of Vaiden, Carroll Co	T 17, R 5 e, Sec 14	Brown silt	4	....	100	4.12	3.28	83.33	.062	8.13	.120	.080	.363	.....	.....	1.27	2.13	22.31	49.45	2.78	14.20

959		1 mi w of Vaiden	T 17, R 5 e, Sec 14	Subsoil of 958	12	....	....	5.92	4.21	76.93	.042	11.66	.075	.111	.522	....	....	.78	1.33	15.02	50.04	3.40	19.18
960		W I Stone, 5 mi w of Vaiden	T 17, R 4 e, Sec 12	Bottom, Peachahaly	10	....	375	2.67	3.10	87.35	.065	6.03	.135	.188	.276	....	....	.139	2.16	19.19	60.74	2.43	8.00
961		W I Stone, 5 mi w of Vaiden	T 17, R 4 e, Sec 12	Second bottom	5	30	....	5.15	3.97	84.60	.125	5.43	.160	.104	.222	....	....	2.40	1.96	23.31	54.89	2.60	5.63
962		W I Stone, 5 mi w of Vaiden	T 17, R 4 e, Sec 12	Subsoil of 961	10	....	....	3.02	2.72	86.47	.125	6.85	.105	.092	.236	....	....	1.82	1.06	15.98	61.18	2.89	10.83
963		Ramsey Heggie, 6 mi w Vaiden	T 17, R 4 e, Sec 9	Brown loam	4	....	250	2.05	2.41	90.03	.100	4.68	.100	.051	.298	.064	....	.91	1.78	31.84	50.77	2.64	7.09
964		Ramsey Heggie, 6 mi w Vaiden	T 17, R 4 e, Sec 9	Subsoil of 963	10	....	....	5.90	3.70	79.80	.078	9.35	.105	.100	.480	.058	1.96	.48	.79	16.94	49.00	3.69	17.74
965		3 mi n of Carrollton	T 19, R 4 e, Sec 5	Brown loam	5	....	....	3.90	2.66	84.03	.094	8.02	.110	.078	.408	.020	....	.31	.44	17.26	56.42	3.84	15.14
966		3 mi n of Carrollton	T 19, R 4 e, Sec 5	Subsoil of 965	10	....	....	3.16	3.48	85.94	.045	6.62	.150	.079	.366	....	....	.53	.50	24.75	52.13	3.47	12.05
967		5 mi n of Carrollton	T 20, R 4 e, Sec 20	Brown loam	4	10	....	9.13	4.13	75.40	.045	10.27	.120	.090	.436	....	....	.26	.26	15.64	46.56	3.25	21.14
968		5 mi n of Carrollton	T 20, R 4 e, Sec 20	Subsoil of 967	10	....	....	4.77	5.20	82.70	.067	6.20	.350	.172	.322	....	....	1.28	2.13	12.92	56.75	7.03	9.54
969		3 mi ne of Grenada	T 21, R 4 e, Sec 28	Brown loam	6	....	100	2.77	2.87	89.43	.058	4.57	.125	.050	.170	....	1.30	1.23	2.23	30.20	47.78	2.73	8.60
970		3 mi ne of Grenada	T 21, R 4 e, Sec 28	Subsoil of 969	10	....	....	4.32	2.82	85.34	.063	6.76	.135	.025	.221	....	....	.80	1.35	16.36	56.72	3.92	15.71
971	Yallo-busha.	4½ mi n of Coffeeville	T 25, R 6 e, Sec 10	Blackjack oak ridge	4	For	est	.90	2.18	92.06	.061	4.43	.015	.023	.180	....	....	1.82	19.64	27.85	37.59	2.65	7.50
972		4½ mi n of Coffeeville	T 25, R 6 e, Sec 10	Subsoil of 971	10	....	....	2.77	3.54	84.36	.067	8.54	.085	.035	.290	....	....	1.64	20.81	23.46	27.99	2.24	17.23
973		1 mi n of Water Valley	T 26, R 6 e, Sec 6	Blackjack oak ridge	8	....	....	3.32	3.22	84.45	.052	7.88	.065	.044	.311	....	.82	18.05	10.04	21.15	24.30	2.22	16.48
974		3 mi nw of Water Valley	T 27, R 6 e, Sec 32	Branch bottom	8	....	300	.68	1.75	93.35	.055	3.31	.140	.053	.212	....	....	13.36	16.49	29.70	32.55	.84	4.03
975		5 mi nw of Water Valley	T 27, R 6 e, Sec 28	Yocany creek bottom	10	....	366	1.50	2.57	90.32	.047	4.83	.145	.063	.223	....	....	8.50	9.80	23.93	44.31	2.10	6.18
976		Batesville		Brown loam	6	....	125	2.00	1.91	90.61	.091	4.46	.170	.102	.293	....	....	1.72	1.27	28.21	58.90	2.15	3.17
977		3 mi n of Batesville	T 8 s, R 7 w, Sec 35	Second bottom Tallahatchie	6	....	166	4.11	3.24	85.58	.095	5.95	.260	.168	.335	....	....	4.35	2.43	34.81	39.64	3.71	7.47
978		3 mi n of Batesville	T 8 s, R 7 w, Sec 35	Surface, Tal. bottom	6	10	....	3.96	2.73	86.56	.052	6.01	.130	.117	.333	....	....	2.30	1.48	41.82	37.98	2.60	6.86
979		5 mi n of Batesville	T 8 s, R 7 w, Sec 25	Brown loam	5	....	125	4.91	3.18	84.47	.090	6.67	.190	.070	.323	....	....	.79	.61	24.90	50.44	3.49	11.21
980		5 mi n of Batosville	T 8 s, R 7 w, Sec 25	Subsoil of 979	10	....	....	2.02	4.80	74.50	.063	11.96	.170	.136	.511	....	....	.29	.33	16.39	42.37	4.53	23.31
981		5 mi n of Batesville	T 8 s, R 7 w, Sec 25	(Forest) brown surface	5	....	....	2.84	3.46	86.90	.062	5.82	.170	.064	.426	.044	....	.69	.71	34.20	43.92	4.75	9.96
982		5 mi n of Batesville	T 8 s, R 7 w, Sec 25	Subsoil of 981	10	....	....	3.57	3.81	81.16	.071	9.97	.200	.102	.563	.052	....	.32	.28	27.05	40.92	5.02	19.35
983		3 mi s of Sardis	T 8 s, R 7 w, Sec 1	Brown loam	4	10	....	5.91	2.56	83.72	.064	6.38	.125	.064	.322	.054	....	.64	.73	30.00	45.10	3.59	11.65
984		3 mi s of Sardis	T 8 s, R 7 w, Sec 1	Subsoil of 983	10	....	....	3.92	3.50	81.62	.060	9.61	.120	.106	.470	.044	....	.20	.28	24.20	45.02	4.13	19.25
985		2 mi n of Sardis	T 7 s, R 7 w, Sec 15	Brown loam	5	10	....	2.61	2.02	89.10	.077	5.05	.185	.089	.373	.01	....	.94	1.07	30.72	51.65	2.94	6.96
986		2 mi n of Sardis	T 7 s, R 7 w, Sec 15	Subsoil of 985	10	....	....	4.04	2.92	82.44	.069	5.08	.160	.163	.430	....	....	.27	.58	24.42	47.10	4.38	17.10
987		2 mi n of Como	T 6 s, R 7 w, Sec 29	Clay subsoil	60	....	....	3.85	2.51	83.31	.092	9.20	.125	.151	.335	....	....	.52	.71	18.88	57.99	3.54	12.12
988		2 mi n of Como	T 6 s, R 7 w, Sec 29	Brown loam	7	15	....	3.29	3.47	87.20	.095	9.40	.120	.135	.304	....	4.00	2.05	2.22	35.59	43.43	1.66	4.56
989		2 mi n of Como	T 6 s, R 7 w, Sec 29	Subsoil of 988	12	....	....	2.31	2.81	86.69	.090	7.27	.100	.145	.320	....	1.06	1.18	.50	21.85	55.57	2.84	11.88
990		3 mi n of Como	T 6 s, R 7 w, Sec 6	Subsoil	60	....	....	3.00	3.52	83.08	.059	8.91	.210	.092	.472	....	....	.56	1.20	23.93	51.82	2.93	13.49
991		1 mi s of Senatobia	T 5 s, R 7 w, Sec 30	Brown loam	6	....	166	1.09	2.43	91.54	.050	4.19	.190	.066	.183	....	....	.50	.87	34.33	55.74	1.88	3.07
992		1 mi s of Senatobia	T 5 s, R 7 w, Sec 30	Subsoil of 991	12	....	....	1.36	3.03	89.30	.070	5.50	.220	.069	.329	....	....	.56	.95	34.44	49.33	3.59	7.07
993		Senatobia		Subsoil	60	....	....	3.35	3.05	83.58	.058	8.52	.265	.108	.439	....	....	.38	.61	24.63	52.81	2.76	13.11
994		1 mi n of Senatobia	T 5 s, R 7 w, Sec 19	Brown loam	7	25	....	4.32	2.27	88.74	.064	3.94	.140	.055	.241	....	1.10	.49	.66	32.44	52.90	1.38	4.92
995		1 mi n of Senatobia	T 5 s, R 7 w, Sec 19	Subsoil of 994	12	....	....	1.96	2.27	90.32	.111	4.72	.130	.061	.270	....	1.85	.90	.65	17.76	60.05	2 36	7.66
996		2 mi s of Coldwater	T 5 s, R 7 w, Sec 5	Brown loam	6	15	....	6.35	2.46	86.21	.210	4.17	.220	.064	.262	....	....	.41	.34	16.21	53.55	3.79	18.54
996½	Tate	2 mi s of Coldwater	T 5 s, R 7 w, Sec 5	Subsoil of 996	12	....	....	4.39	3.40	81.50	.090	8.92	.150	.132	.444	....	2.15	.54	.22	26.51	41.22	3.28	18.45
997		3 mi e of Coldwater	T 4 s, R 7 w, Sec 25	Brown loam valley	10	30	....	1.47	2.30	90.57	.086	4.77	.165	.071	.303	....	....	.14	.60	27.45	60.73	1.68	5.15
998		4 mi e of Coldwater	T 4 s, R 7 w, Sec 24	Subsoil	96	....	....	2.90	4.57	81.39	.071	11.76	.160	.033	.271	....	....	50.56	12.50	1.13	7.27	2.93	20.09
999		4 mi e of Coldwater	T 4 s, R 7 w, Sec 24	Subsoil	60	....	....	1.65	2.25	88.49	.060	6.79	.265	.068	.274	....	.71	13.55	1.55	20.88	45.77	4.38	9.95
1000		4 mi e of Coldwater	T 4 s, R 7 w, Sec 24	Surface	6	....	....	4.03	3.61	79.51	.210	10.91	.050	.097	.43	....	....	.44	.31	17.92	50.62	4.47	18.51
1001		3 mi e of Independence	T 4 s, R 5 w, Sec 29	Brown loam	4	10	....	1.93	3.20	88.38	.14	5.89	.15	.069	.26	....	....	1.13	1.18	27.55	55.78	3.00	6.96
1002		3 mi e of Independence	T 4 s, R 5 w, Sec 29	Subsoil of 1001	10	....	....	5.49	4.11	87.54	.14	6.85	.155	.028	.281	....	....	.44	.47	17.20	50.35	4.54	18.21
1003		3 mi e of Wall Hill	T 4 s, R 5 w, Sec 24	Surface	6	....	166	1.90	3.08	87.86	.076	6.20	.300	.041	.253	....	....	2.56	1.92	22.84	54.75	4.51	8.69
1004		3 mi e of Wall Hill	T 4 s, R 5 w, Sec 24	Subsoil of 1003	12	....	....	5.16	3.67	79.48	.21	10 28	.145	.058	.428	....	3.00	2.26	1.09	18.50	46.08	5.30	15.55
1005		2 mi e of Orion	T 4 s, R 4 w, Sec 23	Red subsoil	96	..	....	2.10	2.30	88.93	.05	6.52	.14	.066	.246	....	....	60.53	13.29	2.80	3.13	.79	15.21
1006		2 mi e of Orion	T 4 s, R 4 w, Sec 23	Red subsoil	48	....	....	1.86	1.66	90.03	.058	5.69	.125	.047	.265	....	....	34.82	9.90	13.76	24.15	1.73	11.84
1007		2 mi e of Orion	T 4 s, R 4 w, Sec 23	Surface	8	....	166	5.74	2.87	81.85	.052	8.24	.225	.083	.360	....	....	1.07	.48	20.64	48.89	4.17	16.18
1008		4 mi nw Holly Springs	T 4 s, R 3 w, Sec 9	Surface	5	....	166	3.03	3.22	87.92	.080	4.87	.275	.079	.252	....	....	2.44	1.42	20.26	57.34	5.03	7.01
1009		4 mi nw Holly Springs	T 4 s, R 3 w, Sec 9	Subsoil of 1008	10	....	....	3.62	2.73	85.12	.097	7.30	.240	.074	.344	....	....	1.32	.56	15.00	57.86	4.30	14.89

Soils of the Brown and Yellow Loam Region.

Lab. No.	County.	Location of Land; Address of Owner.	Township, Range and Section.	Character of Soil.	Showing Depth in In. Sample was Taken.	APPROX. Yield per Acre Unfertilized		Chemical Analysis.										Physical Analysis.						
						Corn in Bushels	Cotton, lbs., lint.	Moisture.	Volatile and Organic Matter.	Insoluble Matter.	Soluble Silica.	Iron & Aluminum Oxide.	Calcium Oxide (Lime).	Phosphoric Acid.	Potash.	Nitrogen.	Gravel.	Sand.	Fine Sand.	Very Fine Sand.	Silt.	Fine Silt.	Clay.
1021	Amite	W. B. Mercier, 3 mi e Centrev..	.....	Brown loam.....	....	....	....	10.19	2.98	83.07	.06	3.92	.095	.055	.125	.....	.....	7.08	2.37	19.15	52.97	2.13	3.03
1022		W. B. Mercier, 3 mi e Centrev..	.....	Subsoil of 1021.....	..	....	....	4.11	3.00	79.42	.043	7.33	.08	.048	.309	.....	....	6.50	1.78	15.26	49.96	6.75	12.72
1023		W. B. Mercier, 3 mi e Centrev..	.....	Surface soil.....	..	..	....	18.00	4.80	73.10	.064	3.16	.175	.067	.17	....	....	8.59	4.86	17.69	41.66	1.90	2.34
1024		W. B. Mercier, 3 mi e Centrev..	.....	Subsoil of 1023	....	....	....	13·23	4.34	74.19	.065	7.50	.095	.059	.401	.....	.....	6.49	3.06	15.02	44.39	2.09	11.87
1025		W. B. Mercier, 3 mi e Centrev.	.....	Crayfish bottom.....	....	....	....	9.04	3.67	81.83	.061	5.06	.125	.057	.242	.....	.....	3.10	3.16	24.27	48.45	1.93	5.75
1025½		W. B. Mercier, 3 mi e Centrev..	.....	Subsoil of 1025.....	....	....	....	10.81	3 96	77.52	.069	6.30	.155	.064	.24	.....	.....	4.62	5.13	18.90	45.59	2.48	7.58
1026		J. A. Redhead, 3 mi s Centrev..	.....	Brown loam	....	....	250	6.90	2.26	85.29	.047	3.69	.08	.033	.166	.....	.....	12.09	9.31	21.27	39.13	1.62	5.90
1027		J. A. Redhead, 3 mi s Centrev..	.....	Subsoil of 1026.....	....	....	....	8.56	2.62	82.12	.074	6.42	.125	.041	.28	.....	.....	10.44	6.60	15.60	43.27	3.15	9.96
871	Hinds.	2 mi n of Jackson.....	T 6, R 1 e, Sec 28.....	Yellow loam	4	5	....	.64	2.92	91.59	.102	4.08	.190	.040	.168	.....	.....	.99	1.38	25.92	61.70	2.05	4.81
872		2 mi n of Jackson.	T 6, R 1 e, Sec 28.....	Subsoil of 871.....	10	....	....	1.27	3.55	85.81	.085	8.35	.140	.052	.336	.....	.....	.65	.59	17.24	57.99	4.05	15.10
873		... .	T 6, R 1 e, Sec 4	Branch bottom..	6	....	250	.83	3.80	89.41	.114	5.21	.210	.057	.182	.....	.....	2.82	3.66	16.34	67.04	2.39	3.13
874		....	T 6, R 1 e, Sec 4	Subsoil of 873.....	12	....	....	.59	2.11	92.43	.099	4.20	.140	.041	.165	.....	.....	.47	.97	26.87	61.01	2.00	6.78
875		Near Madison county line.....	T 6, R 1 e, Sec 4	Brown (pasture)	8	....	....	.76	2.97	89.29	.071	6.15	.105	.050	.277	.050	5.80	1.51	1.22	26.45	50.98	2.13	7.34

Sundry Types of Soils Mainly from Southern Part of State.

Lab. No.	County.	Location of Land; Address of Owner.	Township, Range and Section.	Character of Soil.	Showing Depth in In. Sample was Taken.	Approx. Yield per Acre Unfertilized. Corn, in Bushels.	Approx. Yield per Acre Unfertilized. Cotton, lbs., lint.	Chemical Analysis. Moisture.	Volatile and Organic Matter.	Insoluble Matter.	Soluble Silica.	Iron and Alumina Oxide.	Calcium Oxide	Phosphoric Acid.	Potash.	Nitrogen.	Physical Analysis. Gravel.	Sand.	Fine Sand.	Very Fine Sand.	Silt.	Fine Silt.	Clay.
834	Neshoba.	C. W. Cannon	T 10, R 10 e, Sec 2	Surface gray loam	4	...	333	.56	3.49	89.33	.130	5.36	.075	.052	.170	.080	2.82	37.16	9.06	10.58	30.84	1.85	3.2
835		C. W. Cannon	T 10, R 10 e, Sec 2	Red subsoil	12	...	...	1.23	3.14	82.85	.080	11.56	.225	.061	.347	.035	1.79	29.21	7.33	8.52	28.94	2.66	16.5
836		J. M. Cooper, Dixon	T 9, R 11 e, Sec 6	Stiff basin	10	40	....	1.45	4.20	85.80	.132	6.92	.165	.087	.247	.104	.....	9.26	7.58	6.47	58.74	3.95	7.5
837		J. M. Cooper, Dixon	T 9, R 11 e, Sec 6	Subsoil of 836	15	....	....	3.15	3.41	84.37	.128	7.93	.170	.077	.287	.095	.....	12.25	9.83	7.24	46.87	4.07	12.6
838		J. M. Cooper, Dixon	T 9, R 11 e, Sec 6	Sandy basin	6	....	200	.24	1.32	95.44	.100	2.40	.080	.045	.163	.042	.....	35.90	18.50	3.07	34.75	3.54	1.9
839		J. M. Cooper, Dixon	T 9, R 11 e, Sec 6	Subsoil of 838	10	....	....	1.21	3.11	86.65	.062	7.62	.160	.036	.180	.050	.....	20.03	10.85	4.87	41.46	3.43	14.8
853		R. H. Campbell, Harpersville	T 8, R 8 e, Sec 22	Stiff Basin	12	40	....	.70	4.27	87.48	.057	6.37	.235	.097	.270	.085	...	11.59	4.51	14.14	56.74	2.62	4.9
854		R. H. Campbell, Harpersville	T 8, R 8 e, Sec 22	Subsoil of 853	15	....	....	1.27	3.55	85.02	.062	8.97	.20	.073	.324	.....	.....	16.31	5.87	9.99	44.91	3.78	14.3
855		R. H. Campbell, Harpersville	T 8, R 8 e, Sec 22	Brown sandy basin	4	25	....	.30	2.34	91.40	.035	5.75	.10	.044	.210	.....	.....	36.12	11.29	9.88	29.76	1.99	8.1
856		R. H. Campbell, Harpersville	T 8, R 8 e, Sec 22	Branch bottom	4	....	500	1.23	4.72	85.94	.086	6.67	.20	.058	.309	.10	....	2.81	5.50	15.45	63.65	2.47	3.9
857		R. H. Campbell, Harpersville	T 8, R 8 e, Sec 22	Subsoil of 856	12	....	....	1.08	4.15	87.67	.140	5.16	.103	.041	.223	.08	4.28	6.22	18.62	14.70	42.80	2.10	5.8
848		Lewis Lyle, Cash.	T 8, R 7 e, Sec 3	Crayfish bottom	12	....	....	.41	2.02	94.10	.192	3.01	.095	.025	.190	.05	..	14.11	22.92	11.57	43.53	.72	3.9
849		Lewis Lyle, Cash.	T 8, R 7 e, Sec 3	Very sandy	24	....	166	1.34	6.34	84.20	.150	7.14	.285	.066	.202	.120	..	15.39	27.10	18.11	26.37	2.02	3.0
850		Lewis Lyle, Cash.	T 8, R 7 e, Sec 3	Loam, typical for section	4	15	....	.27	2.62	94.25	.054	2.38	.135	.049	.150	.07	..	7.46	25.60	19.41	40.66	1.34	2.2
851		Lewis Lyle, Cash.	T 8, R 7 e, Sec 3	Subsoil of 850	10	....	....	.76	4.19	83.73	.070	10.31	.165	.049	.283	.048	...	4.31	13.26	13.29	44.48	3.55	15.8
840		R. E. Majare, High Hill	T 9, R 10 e, Sec 6	Burned reedbrake	12	....	..	4.01	2.45	83.15	.071	8.95	.310	.284	.300	.065	.....	13.05	18.13	11.17	43.90	2.96	3.8
841		R. E. Majare, High Hill	T 9, R 10 e, Sec 6	Spongy reedbrake	12	75	...	11.10	28.58	52.15	.082	4.60	.100	.129	.267	....	.....	8.88	9.96	5.14	24.97	1.94	9.6
842		R. E. Majare, High Hill	T 9, R 10 e, Sec 6	Timbered reedbrake	12	75	...	1.76	7.28	87.69	.076	2.57	.060	.041	.163	.20	.....	7.42	13.76	16.01	45.62	1.89	6.4
843		R. E. Majare, High Hill	T 9, R 9 e, Sec 2	Timbered reedbrake	12	75	...	2.02	8.18	84.75	.119	4.96	.125	.064	.173	....	.....	7.04	20.20	11.05	41.07	2.76	6.2
844		Irvin Miller, Walnut Grove	T 9, R 8 e, Sec 23	Sandy loam	4	....	150	1.46	3.65	88.15	.106	6.19	.205	.050	.189	.....	.....	3.17	17.69	17.85	42.01	3.00	11.1
845		Irvin Miller, Walnut Grove	T 9, R 8 e, Sec 23	Subsoil of 844	7	....	....	3.45	4.47	79.83	.108	11.66	.210	.038	.280	.....	.....	1.81	15.93	13.99	39.49	5.96	14.7
846		2½ mi sw Walnut Grove	T 9, R 8 e, Sec 34	Sandy-loam bottom	10	....	500	.84	2.96	92.68	.124	3.20	.170	.048	.165	.....	.....	3.26	24.89	15.51	39.47	4.00	9.0
847		2½ mi sw Walnut Grove	T 9, R 8 e, Sec 34	Subsoil of 846	18	....	....	.89	2.11	92.23	.228	4.26	.055	.049	.236	.....	.....	11.74	31.55	11.59	31.93	3.37	7.2
852	Neshoba	Mr. Mapp, Harp's'lle, Scott Co		Branch bottom	..	....	....	.12	1.67	95.07	.057	2.53	.085	.032	.130	.05	.....	1.85	53.07	17.50	21.52	1.03	2.7
954		2 mi se Fair Ground, Nesh' Co.	T 10, R e, Sec 30	"Rawhide" land	3	....	....	4.96	10.30	45.61	.122	37.32	.360	.117	.563	.....	.....	18.42	8.74	4.55	8.56	4.58	40.5
955		2 mi se Fair Ground, Nesh' Co.	T 10, R e, Sec 30	Subsoil of 954	6	....	....	4.17	6.04	62.59	.088	24.61	.315	.195	.616	.....	.....	18.18	5.10	6.98	15.07	3.50	40.4
801	Leake	J. J. Pritchett, Crystal Sprngs	T 12, R 1 w, Sec 30	Light silt-loam	6	....	500	1.05	4.06	87.45	.13	6.20	.15	.064	.203	.075	3.22	3.28	3.82	8.98	65.86	2.16	6.7
802		J. J. Pritchett, Crystal Sprngs	T 12, R 1 w, Sec 30	Subsoil of 801	12	....	....	1.72	4.47	81.70	.10	10.81	.11	.08	.323	.060	.31	2.33	1.52	5.96	63.48	3.11	15.8
803		J. J. Pritchett, Crystal Sprngs	T 12, R 1 w, Sec 30	Dark silt-loam	8	....	500	.90	3.35	89.73	.12	5.15	.075	.058	.223	.07	.24	7.76	3.78	8.02	65.94	2.63	6.8
804		J. J. Pritchett, Crystal Sprngs	T 12, R 1 w, Sec 30	Subsoil of 803	24	....	....	1.70	3.47	83.75	.06	9.79	.06	.106	.377	.05	.11	4.46	2.73	6.23	60.11	2.50	17.5
805		J. J. Pritchett, Crystal Sprngs	T 12, R 1 w, Sec 30	Light silt-loam	6	40	....	1.02	3.75	88.00	.07	6.30	.175	.064	.297	.07	.86	2.80	1.48	6.63	71.00	5.20	6.5
806		J. J. Pritchett, Crystal Sprngs	T 12, R 1 w, Sec 30	Subsoil of 805	18	....	....	2.22	3.82	82.36	.04	5.25	.10	.091	.390	.05	.....	1.04	1.97	3.23	67.16	3.15	16.9
807		J. W. Day, near Crystal Sprgs	T 12, R 2 w, Sec 34	Silt-loam, with gravel	8	....	....	.99	5.67	88.93	.196	3.51	.175	.061	.190	.....	3.17	6.86	1.93	18.47	57.20	2.22	3.8
808		J. W. Day, near Crystal Sprgs	T 12, R 2 w, Sec 34	Subsoil of 807	15	....	....	1.89	4.42	82.60	.158	10.02	.100	.054	.277	.01	.90	3.98	.67	11.49	52.23	3.15	21.5
809		J. W. Day, near Crystal Sprgs	T 12, R 2 w, Sec 34	Dark silt-loam	7	....	....	.76	4.67	90.57	.182	3.35	.140	.040	.170	.075	1.44	6.01	1.88	14.23	64.64	2.35	3.8
810		H. B. Day, near Crystal Sprgs	T 12, R 2 w, Sec 28	Silt-loam	8	....	....	2.06	3.66	84.24	.124	8.81	.145	.047	.286	.04	.....	2.50	3.24	17.00	54.50	8.14	8.7
811		H. B. Day, near Crystal Sprgs	T 12, R 2 w, Sec 28	Silt-loam	6	....	....	.96	4.55	90.05	.158	3.50	1.20	.068	.263	.095	.18	9.21	7.56	14.35	57.28	3.18	3.2
812		G. R. Gwinnet, 4 mi w "	T 12, R 2 w, Sec 31	Subsoil of bottom	15	....	....	.77	2.48	91.39	.154	4.40	.135	.095	.197	.048	.....	11.25	9.32	10.98	52.25	6.07	6.8

Soils of the Brown and Yellow Loam Region.

Lab. No.	County.	Location of Land; Address of Owner.	Township, Range and Section.	Character of Soil.	Showing Depth in In. Sample was Taken.	APPROX. Yield per Acre Unfertilized		Chemical Analysis.									Physical Analysis.						
						Corn in Bushels	Cotton, lbs., lint.	Moisture.	Volatile and Organic Matter.	Insoluble Matter.	Soluble Silica.	Iron & Aluminum Oxide.	Calcium Oxide (Lime).	Phosphoric Acid.	Potash.	Nitrogen.	Gravel.	Sand.	Fine Sand.	Very Fine Sand.	Silt.	Fine Silt.	Clay.
1021	Amite	W. B. Mercier, 3 mi e Centrev..	.....	Brown loam.....	....	....	....	10.19	2.98	83.07	.06	3.92	.095	.055	.125	....	.....	7.08	2.37	19.15	52.97	2.13	3.03
1022		W. B. Mercier, 3 mi e Centrev..	.....	Subsoil of 1021.....	..	....	....	4.11	3.00	79.42	.043	7.33	.08	.048	.309	....	. ...	6.50	1.78	15.26	49.96	6.75	12.72
1023		W. B. Mercier, 3 mi e Centrev..	.....	Surface soil.....	. ..	..	....	18.00	4.80	73.10	.064	3.16	.175	.067	.17	. .	....	8.59	4.86	17.69	41.66	1.90	2.34
1024		W. B. Mercier, 3 mi e Centrev..	.....	Subsoil of 1023	....	...	....	13·23	4.34	74.19	.065	7.50	.095	.059	.401	....	.....	6.49	3.06	15.02	44.39	2.09	11.87
1025		W. B. Mercier, 3 mi e Centrev.	.....	Crayfish bottom.....	....	....	....	9.04	3.67	81.83	.061	5.06	.125	.057	.242	....	.....	3.10	3.16	24.27	48.45	1.93	5.75
1025½		W. B. Mercier, 3 mi e Centrev..	....	Subsoil of 1025.....	....	....	....	10.81	3 96	77.52	.069	6.30	.155	.064	.24	....	.....	4.62	5.13	18.90	45.59	2.48	7.58
1026		J. A. Redhead, 3 mi s Centrev..	....	Brown loam	....	....	250	6.90	2.26	85.29	.047	3.69	.08	.033	.166	....	.....	12.09	9.31	21.27	39.13	1.62	5.90
1027		J. A. Redhead, 3 mi s Centrev..	....	Subsoil of 1026.....	....	....	....	8.56	2.62	82.12	.074	6.42	.125	.041	.28	....	.....	10.44	6.60	15.60	43.27	3.15	9.96
871	Hinds.	2 mi n of Jackson.....	T 6, R 1 e, Sec 28.....	Yellow loam	4	5	....	.64	2.92	91.59	.102	4.08	.190	.040	.168	....	....	.99	1.38	25.92	61.70	2.05	4.81
872		2 mi n of Jackson.	T 6, R 1 e, Sec 28.....	Subsoil of 871.....	10	....		1.27	3.55	85.81	.085	8.35	.140	.052	.336	....	.....	.65	.59	17.24	57.99	4.05	15.10
873		. .. .	T 6, R 1 e, Sec 4	Branch bottom..	6	....	250	.83	3.80	89.41	.114	5.21	.210	.057	.182	....	.....	2.82	3.66	16.34	67.04	2.39	3.13
874		....	T 6, R 1 e, Sec 4	Subsoil of 873.....	12	....	....	.59	2.11	92.43	.099	4.20	.140	.041	.165	. ...	.....	.47	.97	26.87	61.01	2.00	6.78
875		Near Madison county line.....	T 6, R 1 e, Sec 4	Brown (pasture)	8	....	....	.76	2.97	89.29	.071	6.15	.105	.050	.277	.050	5.80	1.51	1.22	26.45	50.98	2.13	7.34

Sundry Types of Soils Mainly from Southern Part of State.

Lab. No.	County.	Location of Land; Address of Owner.	Township, Range and Section.	Character of Soil.	Showing Depth in In. Sample was Taken.	Approx. Yield per Acre Unfertilized. Corn, in Bushels.	Cotton, lbs., lint.	Moisture.	Volatile and Organic Matter.	Insoluble Matter.	Soluble Silica.	Iron and Alumina Oxide.	Calcium Oxide	Phosphoric Acid.	Potash.	Nitrogen.	Gravel.	Sand.	Fine Sand.	Very Fine Sand.	Silt.	Fine Silt.	Clay.
834	Neshoba.	C. W. Cannon	T 10, R 10 e, Sec 2	Surface gray loam	4	...	333	.56	3.49	89.33	.130	5.36	.075	.052	.170	.080	2.82	37.16	9.06	10.58	30.84	1.85	3.2
835		C. W. Cannon	T 10, R 10 e, Sec 2	Red subsoil	12	...	...	1.23	3.14	82.85	.080	11.56	.225	.061	.347	.035	1.79	29.21	7.33	8.52	28.94	2.66	16.5
836		J. M. Cooper, Dixon	T 9, R 11 e, Sec 6	Stiff basin	10	40	....	1.45	4.20	85.80	.132	6.92	.165	.087	.247	.104	.....	9.26	7.58	6.47	58.74	3.95	7.5
837		J. M. Cooper, Dixon	T 9, R 11 e, Sec 6	Subsoil of 836	15	....	....	3.15	3.41	84.37	.128	7.93	.170	.077	.287	.095	.....	12.25	9.83	7.24	46.87	4.07	12.6
838		J. M. Cooper, Dixon	T 9, R 11 e, Sec 6	Sandy basin	6	....	200	.24	1.32	95.44	.100	2.40	.080	.045	.163	.042	.....	35.90	18.50	3.07	34.75	3.54	1.9
839		J. M. Cooper, Dixon	T 9, R 11 e, Sec 6	Subsoil of 838	10	....	....	1.21	3.11	86.65	.062	7.62	.160	.036	.180	.050	.....	20.03	10.85	4.87	41.46	3.43	14.8
853	Scott	R. H. Campbell, Harpersville	8, R 8 e, Sec 22	Stiff Basin	12	40	....	.70	4.27	87.48	.057	6.37	.235	.097	.270	.085	...	11.59	4.51	14.14	56.74	2.62	4.9
854		R. H. Campbell, Harpersville	T 8, R 8 e, Sec 22	Subsoil of 853	15	....	....	1.27	3.55	85.02	.062	8.97	.20	.073	.324	.....	.....	16.31	5.87	9.99	44.91	3.78	14.3
855		R. H. Campbell, Harpersville	T 8, R 8 e, Sec 22	Brown sandy basin	4	25	....	.30	2.34	91.40	.035	5.75	.10	.044	.210	.....	.....	36.12	11.29	9.88	29.76	1.99	8.1
856		R. H. Campbell, Harpersville	T 8, R 8 e, Sec 22	Branch bottom	4	....	500	1.23	4.72	85.94	.086	6.67	.20	.058	.309	.10	.....	2.81	5.50	15.45	63.65	2.47	3.9
857		R. H. Campbell, Harpersville	T 8, R 8 e, Sec 22	Subsoil of 856	12	....	....	1.08	4.15	87.67	.140	5.16	.103	.041	.223	.08	4.28	6.22	18.62	14.70	42.80	2.10	5.8
848		Lewis Lyle, Cash.	T 8, R 7 e, Sec 3	Crayfish bottom	12	....	....	.41	2.02	94.10	.192	3.01	.095	.025	.190	.05	..	14.11	22.92	11.57	43.53	.72	3.9
849		Lewis Lyle, Cash.	T 8, R 7 e, Sec 3	Very sandy	24	....	166	1.34	6.34	84.20	.150	7.14	.285	.066	.202	.120	..	15.39	27.10	18.11	26.37	2.02	3.0
850		Lewis Lyle, Cash.	T 8, R 7 e, Sec 3	Loam, typical for section	4	15	....	.27	2.62	94.25	.054	2.38	.135	.049	.150	.07	.	7.46	25.60	19.41	40.66	1.34	2.2
851		Lewis Lyle, Cash.	T 8, R 7 e, Sec 3	Subsoil of 850	10	....	....	.76	4.19	83.73	.070	10.31	.165	.049	.283	.048	...	4.31	13.26	13.29	44.48	3.55	15.8
840		R. E. Majare, High Hill	T 9, R 10 e, Sec 6	Burned reedbrake	12	....	....	4.01	2.45	83.15	.071	8.95	.310	.284	.300	.065	.....	13.05	18.13	11.17	43.90	2.96	3.8
841		R. E. Majare, High Hill	T 9, R 10 e, Sec 6	Spongy reedbrake	12	75	...	11.10	28.58	52.15	.082	4.60	.100	.129	.267	....	.....	8.88	9.96	5.14	24.97	1.94	9.6
842		R. E. Majare, High Hill	T 9, R 10 e, Sec 6	Timbered reedbrake	12	75	..	1.76	7.28	87.69	.076	2.57	.060	.041	.163	.20	.....	7.42	13.76	16.01	45.62	1.89	6.4
843		R. E. Majare, High Hill	T 9, R 9 e, Sec 2	Timbered reedbrake	12	75	..	2.02	8.18	84.75	.119	4.96	.125	.064	.173	.....	.....	7.04	20.20	11.03	41.07	2.76	6.2
844		Irvin Miller, Walnut Grove	T 9, R 8 e, Sec 23	Sandy loam	4	....	150	1.46	3.65	88.15	.106	6.19	.205	.050	.189	.....	.....	3.17	17.69	17.85	42.01	3.00	11.1
845		Irvin Miller, Walnut Grove	T 9, R 8 e, Sec 23	Subsoil of 844	7	....	....	3.45	4.47	79.83	.108	11.66	.210	.038	.280	.....	.....	1.81	15.93	13.99	39.49	5.96	14.7
846	Leake	2½ mi sw Walnut Grove	T 9, R 8 e, Sec 34	Sandy-loam bottom	10	....	500	.84	2.96	92.68	.124	3.20	.170	.048	.165	.....	.....	3.26	24.89	15.51	39.47	4.00	9.0
847		2½ mi sw Walnut Grove	T 9, R 8 e, Sec 34	Subsoil of 846	18	....	....	.89	2.11	92.23	.228	4.26	.055	.049	.236	.....	.....	11.74	31.55	11.59	31.93	3.37	7.2
852		Mr. Mapp, Harp's'lle, Scott Co		Branch bottom		....	....	.12	1.67	95.07	.057	2.53	.085	.032	.130	.05	.....	1.85	53.07	17.50	21.52	1.03	2.7
954		2 mi se Fair Ground, Nesh' Co.	T 10, R e, Sec 30	"Rawhide" land	3	....	....	4.96	10.30	45.61	.122	37.32	.360	.117	.563	....	.....	18.42	8.74	4.55	8.56	4.58	40.5
955		2 mi se Fair Ground, Nesh' Co.	T 10, R e, Sec 30	Subsoil of 954	6	....	....	4.17	6.04	62.59	.088	24.61	.315	.195	.616	....	.....	18.18	5.10	6.98	15.07	3.50	40.4
801		J. J. Pritchett, Crystal Sprngs	T 12, R 1 w, Sec 30	Light silt-loam	6	....	500	1.05	4.06	87.45	.13	6.20	.15	.064	.203	.075	3.22	3.28	3.82	8.98	65.86	2.10	6.7
802		J. J. Pritchett, Crystal Sprngs	T 12, R 1 w, Sec 30	Subsoil of 801	12	....	....	1.72	4.47	81.70	.10	10.81	.11	.08	.323	.060	.31	2.33	1.52	5.96	63.40	3.11	15.8
803		J. J. Pritchett, Crystal Sprngs	T 12, R 1 w, Sec 30	Dark silt-loam	8	....	500	.90	3.35	89.73	.12	5.15	.075	.058	.223	.07	.24	7.76	3.78	8.02	65.94	2.63	6.8
804		J. J. Pritchett, Crystal Sprngs	T 12, R 1 w, Sec 30	Subsoil of 803	24	....	....	1.70	3.47	83.75	.06	9.79	.06	.106	.377	.05	.11	4.46	2.73	6.23	60.11	2.50	17.5
805		J. J. Pritchett, Crystal Sprngs	T 12, R 1 w, Sec 30	Light silt-loam	6	40	....	1.02	3.75	88.00	.07	6.30	.175	.064	.297	.07	.86	2.80	1.48	6.63	71.00	5.26	6.5
806		J. J. Pritchett, Crystal Sprngs	T 12, R 1 w, Sec 30	Subsoil of 805	18	....	....	2.22	3.82	82.36	.04	5.25	.10	.091	.390	.05	.....	1.04	1.97	3.23	67.16	3.15	16.9
807		J. W. Day, near Crystal Sprgs	T 12, R 2 w, Sec 34	Silt-loam, with gravel	8	....	....	.99	5.67	88.93	.196	3.51	.175	.061	.190	.....	3.17	6.86	1.93	18.47	57.20	2.22	3.8
808		J. W. Day, near Crystal Sprgs	T 12, R 2 w, Sec 34	Subsoil of 807	15	....	....	1.89	4.42	82.60	.158	10.02	.100	.054	.277	.01	.90	3.98	.67	11.49	52.23	3.15	21.5
809		J. W. Day, near Crystal Sprgs	T 12, R 2 w, Sec 34	Dark silt-loam	7	....	....	.76	4.67	90.57	.182	3.35	.140	.040	.170	.075	1.44	6.01	1.88	14.23	64.64	2.35	3.8
810		H. B. Day, near Crystal Sprgs	T 12, R 2 w, Sec 28	Silt-loam	8	....	....	2.06	3.66	84.24	.124	8.81	.145	.047	.286	.04	.....	2.50	3.24	17.00	54.50	8.14	8.7
811		H. B. Day, near Crystal Sprgs	T 12, R 2 w, Sec 28	Silt-loam	6	....	.....	.96	4.55	90.05	.158	3.50	1.20	.068	.263	.095	.18	9.21	7.50	14.35	57.28	3.18	3.2
812		G. R. Gwaney, 4 mi w " "	T 12, R 2 w, Sec 31	Subsoil of bottom	15	....	..	.77	2.48	91.39	.154	4.40	.135	.095	.197	.048	.....	11.25	9.32	10.98	52.25	6.07	6.8

Sundry Types of Soils Mainly from Southern Part of State.

Lab. No.	County.	Location of Land; Address of Owner.	Township, Range and Section.	Character of Soil.	Showing Depth in In. Sample was Taken.	APPROX. Yield per Acre Unfertilized		Chemical Analysis.								Physical Analysis.						
						Corn in Bushels	Cotton, lbs. lint.	Moisture	Volatile and Organic Matter.	Insoluble Matter.	Soluble Silica.	Iron & Aluminum Oxide.	Calcium Oxide.	Phosphoric Acid.	Potash.	Nitrogen.	Gravel.	Sand.	Fine Sand.	Very Fine Sand.	Silt.	Fine Silt.	Clay.
813		T. P. Hutchinson, 2 mi s Crys S	T 11, R 2 w, Sec 1	Silt-loam, very light	6			.86	3.29	74.03	.146	3.76	.070	.05	.173	.06		5.45	8.01	11.81	59.52	2.75	8.29
814		T. P. Hutchinson, 2 mi s Crys S	T 11, R 2 w, Sec 1	Subsoil of 813	15			2.48	4.04	80.29	.114	10.96	.025	.046	.303	.04		1.82	3.11	7.24	57.36	3.78	19.01
816		N. L. Hutchinson, 2 mi se " "	T 11, R 1 w, Sec 6	Dark silt-loam	6			1.99	5.64	82.85	.182	7.04	.255	.107	.300	.125		3.24	2.85	7.89	66.99	3.89	6.65
817		N. L. Hutchinson, 2 mi se " "	T 11, R 1 w, Sec 6	Subsoil of 816	15			1.51	2.94	87.66	.128	6.63	.085	.087	.296	.055		5.48	1.97	9.06	67.86	4.37	6.76
818		W. Grantham, near Pearl Riv'r	T 2, R 1 e, Sec 30	Dark sandy-loam	6		500	2.16	6.26	83.10	.182	6.57	.225	.149	.196	.190	.92	8.19	27.80	19.82	28.86	2.79	2.53
819		W. Grantham, " " "	T 2, R 1 e, Sec 30	Subsoil of 818	15			2.00	2.89	87.78	.152	5.99	.075	.087	.223	.080	.13	4.60	28.79	18.38	29.50	5.89	7.84
820		W. Grantham, " " "	T 2. R 1 e, Sec 30	Sandy-silt-loam	60		250	.80	3.13	91.49	.140	3.61	.215	.081	.233	.080		14.69	23.64	9.31	42.44	2.07	3.65
822		Dr. O. Dulany, Hopewell	T 1, R 1 e, Sec 7	Silt-loam	6			.54	3.28	92.71	.146	3.13	.155	.040	.200	.076	3.26	6.84	4.59	8.76	66.73	2.35	4.52
823		F. M. Barlow, Pearl riv. bot'm	T 1, R 1 e, Sec 9	Silt-loam	6		500	.57	2.15	92.69	.160	3.50	.120	.065	.277	.063		16.21	10.64	2.21	58.11	4.48	6.72
824		W.A. Watkins, 2d bot. Pearl riv	T 1, R 1 e, Sec 15	Sandy-silt-loam	12			1.30	3.53	90.66	.240	3.10	.285	.050	.253	.110		.32	15.86	32.63	34.37	5.11	7.64
825		W. A. Watkins, 13 mi e Crys. S.	T 1, R 1 e, Sec 15	Sandy-silt-loam	6		500	.56	2.06	94.13	.160	2.46	.100	.060	.251	.070		5.87	36.88	12.51	37.68	1.10	2.82
826		W. A. Watkins, " " " "	T 1, R 1 e, Sec 15	Silt-loam	6			1.02	2.96	90.50	.156	3.96	.150	.077	.262	.060		10.79	13.81	6.26	55.37	2.74	6.99
827		2 mi n Georgetown	T 1, R 1 e, Sec 26	Sandy soil	8		100	.35	1.20	96.74	.154	1.15	.095	.064	.128	.049		37.99	47.16	4.05	7.26	.69	1.02
828		W. O. Catchings, near Geo'twn	T 1, R 1 e, Sec 35	Sandy loam	18			.73	2.07	92.74	.158	3.48	.115	.047	.134	.050	3.54	17.84	29.64	9.31	26.48	4.95	4.72
829		W. O. Catchings, " "	T 1, R 1 e, Sec 34	Hammock subsoil	12			1.28	2.90	87.63	.152	6.87	.150	.040	.177	.055	1.39	2.75	4.03	20.57	55.60	3.78	7.66
830		W. D. Catchings	T 1, R 1 e, Sec 34	Typical Pearl river bottom	8		400	1.04	3.91	89.22	.110	5.02	.130	.060	.199	.125		5.87	6.73	23.42	54.77	1.66	2.80
831		R. Coxwell	T 10, R 9 e, Sec 6	Silt-loam	8			.77	3.32	89.67	.118	4.71	.125	.064	.264	.090		5.21	3.88	24.17	53.01	2.87	6.25
832		Dodds	T 11, R 2 w, Sec 22	New land	8			.78	4.04	90.93	.116	3.58	.125	.036	.132	.040		18.37	9.57	14.01	47.89	2.35	2.93
1010	Jones	W. C. Welborn, Mico	T 10, R 12 w, Sec 36	Pinewoods sandy land				8.17	6.52	83.42	.13	1.42	.20	.046	.123			46.74	27.79	2.27	7.03	.38	.50
1011		W. C. Welborn, Mico	T 10, R 12 w, Sec 36	Subsoil of 1010				2.97	2.46	92.59	.117	1.58	.100	.03	.106			52.56	29.92	2.28	7.91	.76	.83
1012		W. C. Welborn, Mico	T 10, R 12 w, Sec 36	Pinewoods sandy loam				5.47	3.45	86.84	.10	3.63	.15	.035	.160			24.01	23.99	13.28	27.84	1.34	2.06
1013		W. C. Welborn, Mico	T 10, R 12 w, Sec 36	Subsoil of 1012				8.40	2.51	82.80	.07	5.62	.11	.024	.208			19.88	18.28	12.95	30.73	2.90	3.30
674		Big Level, Harrison County	T 3 s, R 10 w,	Pinewoods loam				.68	5.06	89.27		4.60	.18	.033	.098			44.18	18.64	5.77	25.76	3.97	6.06
675		Big Level, Harrison County	T 3 s, R 10 w,	Subsoil of 674				.74	3.71	87.68	.270	7.46	.12	.025	.106			22.35	25.17	4.68	30.81	3.11	10.00
913	Winston	2 mi Perkinsville	T 14, R 14 e, Sec 5	Basin land	12		166	1.11	3.27	88.82	.057	3.20	.155	.044	.160	.050		4.89	5.14	12.10	64.80	2.86	6.16
914		2 mi Perkinsville	T 14, R 14 e, Sec 5	Subsoil of 913	15			1.53	3.01	85.85	.054	8.54	.145	.028	.303			9.03	6.17	9.43	50.30	4.53	16.30
915		2 mi n Handle	T 13, R 14 e, Sec 28	Basin land	4		333	1.11	3.36	89.08	.072	4.24	.160	.055	.145	.050		6.74	9.60	18.05	46.87	2.92	9.91
916		2 mi n Handle	T 13, R 14 e, Sec 28	Subsoil of 915	8			1.28	3.29	87.71	.076	7.39	.132	.039	.235			46.36	9.68	8.29	27.10	1.75	3.79
917	Kemper	F. M. Ross, Herbert	T 10, R 13 e, Sec 36	Light Basin	4		166	.55	2.30	92.75	.047	3.76	.068	.074	.140	.045		45.68	6.41	6.97	26.27	2.85	8.18
918		F. M. Ross, Herbert	T 10, R 13 e, Sec 36	Subsoil of 917	10			.82	2.50	90.72	.050	5.24	.150	.101	.201			3.74	2.10	5.81	74.31	3.11	5.80
919		F. M. Ross, Herbert	T 10, R 13 e, Sec 36	Stiff basin	4	40		1.07	3.88	87.76	.077	6.33	.130	.060	.199	.05		26.41	8.05	5.66	43.71	3.02	8.72
920		F. M. Ross, Herbert	T 10, R 13 e, Sec 36	Subsoil of 919	10			.64	3.30	87.97	.068	6.54	.070	.064	.227	.100		2.29	9.52	28.64	48.46	2.76	3.90
911		3 mi s Louisville, Winston Co.	T 14, R 12 e, Sec 16	Sandy loam	4		125	.56	2.65	92.59	.058	3.56	.100	.022	.133	.048		2.25	1.81	17.90	42.57	5.58	23.32
912		3 mi s Louisville, Winston Co.	T 14, R 12 e, Sec 16	Subsoil of 911	15			2.26	4.35	70.16	.069	13.17	.045	.033	.321	.030		68.78	5.71	6.52	13.76	.96	2.46
921		F. D. Dewes, Herbert, Nesh. Co	T 10, R 13 e, Sec	Sandy basin	5		125	.78	.56	96.11	.053	2.32	.020	.028	.090	.060	.36	46.93	3.92	6.53	27.95	1.77	.902
922		F D Dewes, Herbert, " "	T 10, R 13 e, Sec	Subsoil of 921	8			.97	2.21	91.04	.070	5.39	.065	.039	.160	.025	.41	2.01	16.89	27.58	45.80	2.07	3.35
923		S. D. Stennis, Kemper Co	T 10, R 15 e, Sec 9	Gray sandy loam	4	15		.37	1.88	94.17	.078	2.59	.070	.019	.141	.035		13.83	9.55	2.20	19.04	8.68	32.18
925	Scott	7 mi sw DeKalb, Kemper Co	T 10, R 15 e, Sec 11	Rawhide	3			6.73	8.12	68.35	.113	15.40	.170	.029	.345	.050		18.28	12.17	13.39	48.13	1.57	4.12
858		4 mi n Forest	T 7, R 8 e, Sec 20	Flat sandy, pinewoods	6			.50	1.80	94.02	.180	2.58	.195	.013	.129	.025		12.56	6.05	7.02	39.70	7.51	13.28
859		1 mi w Forest	T 6, R 8 e, Sec 17	Brown central prairie	3			4.56	8.62	73.50	.140	11.57	.725	.029	.255	.140		7.59	6.19	7.50	35.56	8.82	22.03
860		1 mi w Forest	T 6, R 8 e, Sec 17	Subsoil of 859	8			5.87	6.93	66.34	.244	17.68	.595	.030	.486	.105							

Lab. No.	County.	Location of Land; Address of Owner.	Township, Range and Section.	Character of Soil.	Showing Depth in In. Sample was Taken.	Approx. Yield per Acre Unfertilized: Corn in Bushels	Approx. Yield per Acre Unfertilized: Cotton, lbs., lint.	Chemical Analysis: Moisture.	Volatile and Organic Matter.	Insoluble Matter.	Soluble Silica.	Iron & Alumnia Oxide.	Calcium Oxide	Phosphoric Acid.	Potash.	Nitrogen.	Physical Analysis: Gravel.	Sand.	Fine Sand.	Very Fine Sand.	Silt.	Fine Silt.	Clay.
861	Rankin	2 mi w Pelahatchie	T 5, R 5 e, Sec 6	Loam	8	...	....	1.11	3.94	88.59	.108	5.19	.220	.052	.290	.140	.....	6.18	21.97	24.02	39.29	1.47	2.70
862		4 mi s Brandon	T 5, R 3 e, Sec 29..	Sandy loam	3	....	125	.87	3.22	90.54	1.54	4.33	.185	.040	.194	.055	.....	3.78	10.01	26.59	48.78	1.67	14.84
863		4 mi s Brandon	T 5, R 3 e, Sec 29	Subsoil of 862	8	....	....	1.51	4.29	81.58	.072	11.00	.260	.054	.370	.050	.....	1.58	3.64	21.44	43.76	3.77	19.90
864		6 mi s Brandon	T 4, R 2 e, Sec 11	Chocolate loam	10	....	....	1.42	4.86	84.50	.090	8.23	.115	.080	.240	.100	.....	2.90	7.26	18.86	48.37	3.34	3.13
865		1 mi s Steen's Creek	T 4, R 2 e, Sec 3	Silt-loam	8	....	....	1.44	4.35	85.87	.058	7.11	.125	.097	.230	.108	10.00	3.72	3.28	11.69	56.03	2.50	7.49
866		1 mi s Steen's Creek	T 4, R 2 e, Sec 3	Subsoil of 865	12	....	....	.65	1.96	91.98	.061	4.76	.085	.032	.187	.030	9.86	1.35	1.78	14.82	57.92	3.54	7.88
867		1 mi s Steen's Creek	T 4, R 2 e, Sec 3	Sandy-loam bottom	6	....	300	.65	3.27	91.00	.056	4.46	.125	.062	.193	.075	.....	.....	.....	.....	.....	.....	.....
868		1 mi s Steen's Creek	T 4, R 2 e, Sec 3	Subsoil of 867	12	...	....	1.00	2.92	88.47	.093	5.88	.130	.033	.197	.04	2.50	2.36	1.52	17.57	57.46	3.51	10.89
833		Dr. Bevil, Pugh, Oktibbeha Co	....	Surface Noxubee bottom	....	..	500	1.80	6.76	82.48	.132	7.47	.185	.079	.337	.14	.....	3.64	8.75	11.96	50.70	5.64	10.33

Sundry Types of Soils.

Lab. No.	County.	Location of Land; Address of Owner.	Township, Range and Section.	Character of Soil.	Showing Depth in In. Sample was Taken.	Approx. Yield per Acre Unfertilized: Corn in Bushels	Approx. Yield per Acre Unfertilized: Cotton, lbs., lint.	Chemical Analysis: Moisture.	Volatile and Organic Matter.	Insoluble Matter.	Soluble Silica.	Iron & Alumnia Oxide.	Calcium Oxide	Phosphoric Acid.	Potash.	Nitrogen.	Physical Analysis: Gravel.	Sand.	Fine Sand.	Very Fine Sand.	Silt.	Fine Silt.	Clay.
869	—	3 mi. s. e. Jackson, Rankin Co.	T 5, R 1 e, Sec 22	Pearl River bottom	6	....	500	1.12	5.26	88.27	.10	4.77	.15	.057	.115	.....	1.69	6.11	19.40	14.90	43.65	2.09	6.10
870	—	3 mi. s. e. Jackson, Rankin Co.	T 5, R 1 e, Sec 22	Subsoil of 869	10	....	....	1.02	2.91	91.61	.082	4.79	.10	.037	.120	.....	4.23	7.96	17.54	15.53	39.14	2.79	8.87
269	—	J. J. Duncan, Washington Co.	Mississippi bottom	Surface	....	..	....	.....	15.07	71.33	.....	12.74	.34	.16	.55	.....	.....	.....	.....	.....	.....	.....	.....
270	—	J. J. Duncan, Washington Co.	Mississippi bottom	Subsoil of 269	..	...	....	.....	13.00	72.38	.....	13.90	.20	.16	.77	.....	....	.....	.....	.....	.....	.....	.....
676	Bolivar	Chas. Scott	Mississippi bottom	.....	....	....	....	2.09	3.80	84.48	....	6.68	.126	.17	.46	.. .	....	. .	.....	.....	.....	..	.....
677		.....	Mississippi bottom	.....	....	....	....	4.27	7.72	73.41	.082	11.17	.92	.192	6.87	.....	.....	.....	.....	.....	.....	.....	.....
678		.....	Mississippi bottom	.....	....	....	....	3.53	9.16	73.42	.145	10.83	.89	.195	6.92	.....	.....	.....	.....	.....	.....	.....	.....
679		.....	Mississippi bottom	.....	....	....	....	5.16	11.78	63.24	.065	13.35	.97	.216	.941	.....	.....	.....	.....	.....	.....	.....	.....
700	Coahoma	.....	.....	.....	....	12	....	.....	.....	83.90	.....	7.31	.40	.092	.54	.....	.....	.....	.....	.....	.....	.....	.....
701		.....	.....	.....	....	24	....	2.95	3.26	81.50	.11	9.59	.41	.14	.54	.....	.....	.....	.....	.....	.....	.....	.....
702		.....	.....	.....	....	48	....	4.12	5.84	72.60	.11	13.54	.59	.134	.84	.....	.....	.....	.....	.....	.....	.....	.....
703		.....	.....	.....	....	72	....	1.22	2.70	88.08	.12	6.15	.34	.115	.36	.....	.....	.....	.....	.....	.....	.....	.....
658	—	Near Garlandsville, Jasper, Co.	T 4, R 11 e, Sec 1	Black prairie	....	....	....	4.65	10.43	64.47	.104	13.28	.372	.118	.415	.....	.....	.....	.....	.....	.....	.....	.....
659	—	Near Garlandsville, Jasper, Co.	T 4, R 11 e, Sec 1	Black prairie	....	....	....	6.70	10.64	61.25	.113	17.39	.245	.109	.50	...	.....	.....	.....	.....	.....	.....	.....