

GEOLOGICAL SURVEY OF GEORGIA

S. W. McCALLIE, State Geologist

BULLETIN NO. 28

A THIRD REPORT

ON THE

PUBLIC ROADS

OF

GEORGIA

BY

S. W. McCALLIE, State Geologist

Atlanta, Ga.
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OF THE
Geological Survey of Georgia
In the Year 1912

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LETTER OF TRANSMITTAL

GEOLOGICAL SURVEY OF GEORGIA,
ATLANTA, July 15, 1912.

To His Excellency, JOSEPH M. BROWN, Governor, and President of the Advisory Board of the Geological Survey of Georgia.

SIR: I have the honor to submit herewith a third report on the Public Roads of Georgia, to be published as Bulletin No. 28, of this Survey.

Very respectfully yours,

S. W. McCALLIE,
State Geologist.

PREFATORY NOTE

In submitting this report on the public roads of Georgia to the public the writer wishes to express his thanks to the State Prison Commission for valuable assistance in the cooperative work of collecting data on the roads of the State. Special thanks are also due Capt. Goodloe H. Yancey, Secretary of the Prison Commission, who rendered invaluable aid in compiling the statistical data. In addition to the assistance here accredited, the writer wishes, furthermore, to express his gratitude to the various public road officials throughout the State for information concerning the public roads of their respective counties.

This report is the third report on the public roads of the State published by the State Geological Survey. The first report was issued in 1901 and the second in 1910. It is to be regretted that the statistical data which were collected by correspondence with the county road officials had to be estimated in many cases; however, they are thought to be sufficiently accurate to give a fairly trustworthy idea of the general conditions of the public roads of the State.

It should be added that the mileage and cost of sand-clay roads, in some cases, can not be relied on, as the number of miles constructed multiplied by the cost per mile given, is more than the total amount of money expended.

Public Roads of Georgia

MILEAGE AND EXPENDITURES.

The statistical table of this report shows that the estimated public road mileage of the State of Georgia in 1911 was 83,986, which is an increase of 1,704 miles over the road mileage of 1909, the date of the last statistical road data published by this Department. The table also shows that during last year there were constructed in the State 35 miles of macadam road, 235 miles of road surfaced with gravel and chert, and 4,077 miles of road surfaced with sand-clay mixtures. These figures show that within the last two years there has been very rapid progress made in improving the roads of the State. Especially has this been true in regard to the construction of gravel and chert roads and sand-clay roads. In 1909, or only two years ago, the statistical road data showed that up to that date only 502 miles of gravel and chert roads and 3,421 miles of sand-clay roads had been constructed, whereas, in 1911 there were constructed 235 miles of gravel and chert road and 4,077 miles of sand-clay road. In other words, the total number of miles of gravel and chert roads constructed last year was nearly one-half the mileage of these roads previously constructed, and the sand-clay roads constructed exceeded the mileage of this class of roads previously constructed by 656 miles.

Of the 146 counties of the State 116 employ convicts and 30 use statute or hired labor, the total number of convicts employed being 4,744.

The expenditures on public roads and bridges in 1911 were \$659,002 commutation tax and \$1,770,697 property tax, making a total money expenditure of \$2,504,699. To this sum should be added \$1,623,200, an estimated money value of convicts furnished by the State together with the value of statute labor of those counties not using convicts and those using both convicts and statute labor. This makes a grand total of road expenditure last year of \$4,127,899.

In comparing the total road mileage of the State with the total estimated road expenditures it will be seen that each mile of public road cost last year \$49.15, or \$1.58 per inhabitant based on the census of 1910.

PUBLIC ROAD DATA OF GEORGIA COLLECTED BY THE STATE GEOLOGICAL SURVEY IN CO-OPERATION WITH THE STATE PRISON COMMISSION.

COUNTY.	Area sq. miles.	ROAD MILEAGE AND BRIDGES.					LABOR USED IN ROAD IMPROVEMENT.			Number of mules on public roads.	Value of mules.	Value of road machinery.	EXPENDITURES FOR ROAD IMPROVEMENT		Total expenditures for roads and bridges.	REMARKS.			
		Total of all public roads.	IMPROVED ROADS AND BRIDGES.				No. of convicts	Salary of Superintendent per month.	Salary of guards per month.				Commutation tax.	Property Tax					
			Surfaced with stone	Surfaced with gravel or chert.	Surfaced with Sand-clay Mixtures or "Top Soil"	Surfaced with shells, cinders or slag.											Average cost per mile.	No. of steel, iron, or cement bridges.	Cost of bridges.
Appling	583	600		45	\$ 250	\$	30	\$ 65	\$ 50	8	\$ 2,000	\$ 825	a \$1,934	\$ 9,012	\$ 10,946				
Baker	366	450		60	100s	1	4,800	13	60	30	14	2,800	500	3,500	6,000	9,500			
Baldwin	250	400	30	5	(³)	8	2,600	37	75	35	25	6,250	2,000a	5,436	10,000	15,436			
Banks ²	216	300						17	60	30	18	4,500	1,000	5,154	5,620	10,774			
Bartow	485	1,000	12		80	(³)	19	13,500	41	75	30	9,000	2,200	5,696	18,927	24,623			
Ben Hill	278	250		40	250			28	75	30	24	4,800	500	(³)	15,000	15,000			
*Berrien	271	1,250		150	500			34	60	30	11	2,750	5,000	6,000	(³)	6,000			
Bibb	254	500	15	30	350-1,000			131	150	45	81	24,300	2,150	None	52,000	52,000			
Brooks	463	500		65	175			41	100	40	28	5,000	1,000	6,987	12,000	18,987			
Bryan	427	300		5	(³)			20	75	35	10	1,500	700a	3,000	(³)	3,000			
Bulloch	930	1,000		200	(³)			38	150	35	40	10,000	1,800a	12,432	19,266	31,698			
Burke	883	600		60	300			52	150	30	27	6,000	1,000	12,000	12,000	24,000			
Butts	179	400						15		30	21	5,000	1,500a	4,500	8,000	12,500			
Calhoun	276	275		80	(³)	s	1	1,600	24		30	16	3,200	1,200	4,250	10,000	14,250		
Camden	718	275		25	500			23	100	35	2	400	200a	3,345	3,000	6,345			
Campbell	205	450						3	1,000	26	75	30	28	5,600	4,100	5,000	12,000	17,000	
Carroll ²	486	800						36		30	15	3,750	10,000	11,250	12,000	13,250			
Catoosa ²	171	200						(⁴)							2,250	2,250			
Charlton ²	1,063	200						(⁴)	65	30					1,200	3,367			
Chatham	400	210	gr. 10		3,500s	1	5,500	301	208 ³	50	15	3,750	3,000	(³)	(³)	40,000			
Chattahoochee	231	260						(⁴)					None	1,500	1,500	1,500		} Gravel road b'lt largely by private subscrip'n	
Chattooga	326	456	5		300	3	811	(⁴)	1			(³)	3,000	3,184	6,184				
Cherokee	434	1,000		10	400			39	75	30	45	10,125	1,500	6,500	25,000	31,500			
Clarke	159	150		25	1,000	1	400	45	75	50	40	9,000	4,000	4,000	18,750	22,750			

PUBLIC ROAD DATA OF GEORGIA COLLECTED BY THE STATE GEOLOGICAL SURVEY IN CO-OPERATION WITH THE STATE PRISON COMMISSION.

COUNTY.	Area sq. miles.	ROAD MILEAGE AND BRIDGES.						LABOR USED IN ROAD IMPROVEMENT.			Number of mules on public roads.	Value of mules.	Value of road machinery.	EXPENDITURES FOR ROAD IMPROVEMENT		Total expenditures for roads and bridges.	REMARKS.
		IMPROVED ROADS AND BRIDGES.						No. of convicts	Salary of Superintendent per month.	Salary of guards per month.				Commutation tax.	Property Tax		
		Surfaced with stone	Surfaced with gravel or chert.	Surfaced with Sand-clay Mixtures or "Top Soil"	Surfaced with shells, cinders or slag.	Average cost per mile.	No. of steel, iron, or cement bridges.								Cost of bridges.		
Hall	449	1,500					30	30	30	26	6,500	5,000	13,692	20,000	33,692	\$51,000 bonds outstanding.	
Hancock	523	600	1	5	(3)	3	3,000	27	75	30	23	5,500	2,500	5,500	11,600		17,100
Haralson	282	800						(4)	60				3,000	2,400	5,600		8,000
Harris	486	500						(4)	75		6	1,500	1,500	5,000	a 4,000		9,000
Hart	257	500						19	60	40	16	3,500	850	1,150	8,000		9,150
Heard	313	432		17	100	7	(3)	14	85	40	10	3,000	460	6,000	1,227		7,227
Henry	337	500						34	75	35	25	5,000	1,800	6,000	7,000		13,000
Houston	591	700			(3)			52	100	30	43	10,750	6,000	3,000	16,000		19,000
*Irwin ²	459	175						21	75	25	14	3,500	1,250		10,000		10,000
Jackson	460	1,100		2	400	3		38	75	35	25	6,000	3,000	9,090	19,000		28,900
Jasper	410	750					3,415	27	112 ¹ / ₂	40	22	6,000	5,500	6,000	2,000		8,000
Jeff Davis	395	150		5	800			(4)	50			None	None	1,250	2,500		3,750
Jefferson	686	650		10	100		1,000	25	100	40	23	4,500	1,200	6,000	8,000		14,000
Jenkins	400	225		31	350 ^s	1	500	25	100	40	22	5,500	1,000	6,000	9,000		15,000
Johnson	258	400		30	250			25	100	40	18	2,700	150	3,600	4,200		7,800
Jones ²	397	600						20	60	30	25	6,250	3,000	4,500	5,000		9,500
Laurens	791	1,250		20	600			53	75	35	45	10,250	1,373	12,520	46,463		58,983
Lee	436	550		15	800	1	2,000	33	100	35	28	5,000	1,000	3,500	15,000		18,500
Liberty	976	500						(4)	100		10	2,500	700	1,200	4,843		6,043
Lincoln	290	350						8	55	30	13	2,600	500	3,900	3,100		7,000
Lowndes ²	455	1,000						52	100	40	28	6,000	1,500	2,500	(3)	2,500	
Lumpkin	282	400						(4)				None	(3)	450	2,210	2,660	
Macon	392	500		35	700			46	125	30	35	7,000	1,000	4,400	15,000	19,400	
Madison	278	900		10	1,000			33	67	30	23	4,600	900	8,000	3,000	11,000	

Marion ²	344	300						17	50	30	9	2,250	(³)	3,600	3,000	6,600
McDuffie	258	400		20				13	50	30	14	2,500	600	2,000	4,000	6,000
McIntosh	429	151		5 sh. 3½	1000-1500s	2	3,800	(⁴)	40			None	100	2,700	4,800	7,500
Meriwether	544	1,400						31	100	30	34	6,800	2,000	6,000	16,000	22,000
Miller	275	200		56	150s.	1	6,000	14	100	30	16	4,500	750	3,000	2,878	5,878
Milton	147	400			s.	5	6,300	(⁴)	50		16	4,000	350	4,750	11,000	15,750
Mitchell	542	465		60	350	2	1,250	33	83½	30	60	18,000	7,000	11,500	12,000	23,500
Monroe	480	1,100			s.	2	2,000	32	85	30	30	7,000	1,100	6,000	8,000	14,000
*Montgomery	642	1,000		400	600	3	5,462	18	100	40	18	4,500	1,000	2,250	14,562	16,812
Morgan	346	1,100					10,000	36	60	30	40	8,000	1,500	8,100	16,000	24,400
Murray	352	400		50	(³)	1	(³)	(⁴)			9	2,225	8,750	4,400	9,000	13,400
Muscogee	255	250		12	1,000			117	100	35	68	13,000	4,500	4,000	40,000	44,000
Newton	259	250					1025,000	43	85	40	33	8,200	2,500	8,000	20,000	28,000
Oconee	184	300						24	50	30	17	5,100	600	6,324	3,054	9,378
Oglethorpe ²	575	940						27	50	30	20	5,000	1,250	7,000	6,000	13,000
Paulding	329	900					2 1,000	(⁴)	40		12	3,000	800	5,000	5,000	11,000
Pickens ²	219	500						(⁴)								
Pierce	518	250		10	200-300			13	65	30	4	900	200	2,000	5,000	7,000
Pike	294	900						27	85	35	40	9,000	1,500	6,000	15,000	21,000
Polk	292	500					512,500	(⁴)	75		24	4,800	2,150	5,000	15,432	20,432
Pulaski	477	600						31	100	32	20	4,000	4,000	4,500	(³)	4,500
Putnam	348	435	1½	1	st. 600	2	3,200	30	90	30	29	6,000	6,000	4,800	5,750	10,550
Quitman	152	133						(⁴)	60		8	1,840	1,200	None	2,581	2,581
Rabun	344	500					3 2,700	(⁴)	40			None	(³)	2,000	3,065	5,065
Randolph	476	700		100	75		2,300	46	80	30	24	4,800	6,500	7,000	15,000	22,000
Richmond	272	350	gr. 3	200	700-2000			193	100	40	90	18,000	6,000	None	120,287	120,287
Rockdale	121	238		10	1,000	1	350	42	50	35	21	4,000	2,750	3,715	5,000	8,715
Schley	188	265		6	1,200			15	75	30	19	3,800	500	3,000	4,983	7,983
*Screven	654	700		100	50-400			25	75	35	17	4,250	500	7,000	11,064	18,064
Spalding	203	460		6	50	3	2,800	39	75	35	37	9,250	5,000	5,500	13,000	18,500
Stephens	155	450		100	(³)			26	65	40	23	5,500	1,500	3,000	10,000	13,000
Stewart	440	450		28	(³)	6	6,000	29	100	40	25	5,000	1,200	6,000	9,887	15,887
Sumter ²	534	1,150						75	125	35	75	18,750	6,000	6,500	43,500	50,000
Talbot	407	414						(⁴)			16	4,000	3,000	6,000	8,550	14,550
Taliaferro	198	368			s.	2	910	11	60	30	14	3,500	1,212	2,446	4,000	6,446
*Tattnall	735	1,050		75	300			29	40	30	18	3,600	1,000	8,000	1,100	9,100
Taylor	338	400		5	25		200	(⁴)	50			None	300a	9,835	3,000	12,835

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		Total of all public roads.	Surfaced with stone	Surfaced with gravel or chert.	Surfaced with Sand-clay Mixtures or "Top Soil"	Surfaced with shells, cinders or slag.	Average cost per mile.											No. of steel, iron, or cement bridges.	Cost of bridges.
Telfair	412	400		13		750		23	90	25	16	3,500	1,500 ^a	5,082	10,000 ^a	15,082			
Terrell	340	800		53		175	7	38	100	40	32	7,000	5,000	7,500	15,615 ^a	23,115			
*Thomas	504	700		21		(³)	4	59	100	30	63	12,500	1,250	10,000	13,500	23,500			
Tift	271	300		40		(³)		26	100	30	24	6,000	1,000	1,800	10,000	11,800			
Toombs	519	400		25		600		27	75	30	24	6,000	1,000	2,200	15,000	17,200			
Towns	168	75				s.	1	2,500	(⁴)										
Troup	434	750		50		350	25	15,000	45	150	30	60	12,000	2,000	7,000	25,000	32,000	\$ 200,000 bonds for roads 1911 \$20,000 bonds issu'd by Turner Co.	
Turner	326	800		200		125		27	90	30	19	2,700	600	7,590	12,000	19,590			
Twiggs	423	800		100		100		17	100	30	19	5,700	750 ^a	2,400	4,270	6,670			
Union	325	150						(⁴)				None	None	None	None	None			
Upson	310	800						18	100	30	24	6,000	(³)	7,536	11,514	19,050			
Walker	433	576	33			700	4	2,800	(⁴)		8	1,600	100 ^a	6,900	10,000	16,900			
Walton ²	366	500						33	100	30	34	8,500	1,500	(³)	15,000	15,000			
Ware	676	482		2		300		38	90	40	11	2,750	275 ^a	3,900	4,000	7,900			
Warren	298	450		10		(³)	2	1,750	23	50	30	18	4,000	1,000	3,500	9,000	12,500		
Washington	680	1,400		50		250		62	100	30	50	12,500	8,000	8,000	18,000	26,000			
Wayne	766	550				400		13	40	30	2	500	5,700	3,000	9,000	12,000			
Webster	227	300		50		(³)		17	65	35	9	1,800	500	4,000	3,000	7,000			
White ²	243	250						(⁴)	30			None	None	(³)	1,319	1,319			
Whitfield	285	450	2	20		(³)	2	(³)	(⁴)		11	2,200	1,000	4,500	17,000	21,500			
*Wilcox	473	500		10		75	2	3,500	21	60	30	16	4,000	1,440 ^a	5,868	8,400	14,268		
Wilkes	501	1,200		7		350	1	2,500	44	70	30	26	6,000	1,500	8,800	9,800	18,600		
Wilkinson ²	431	500						21	40	25	9	2,250	1,500	5,000	5,000	10,000			
*Worth ²	604	900						32	100	25	18	4,500	1,000	10,000	10,000	20,000			
Total	83,986	35	2354,077	7		324		4,744			3,361	760,975	356,712	659,002	1,770,697	2,504,699			

*Area affected by creation of new county. s Steel bridges; gr Gravel; sh Shells; st Stone.

^a Estimated. ² No report received; estimated from 1910 report.

³ Not given in report. ⁴ Free and Statute labor employed. ⁵ Cost of material; work done by convicts.