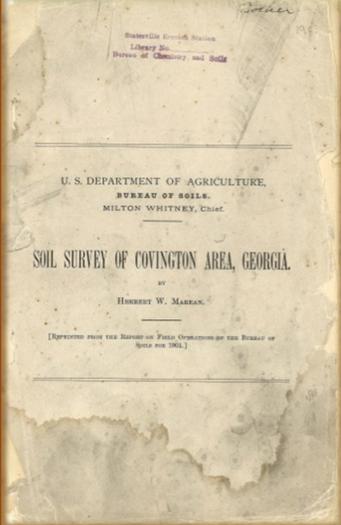
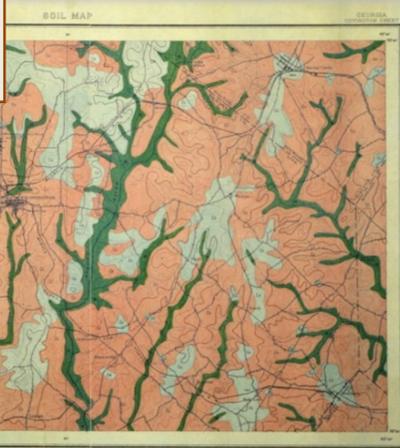


1st Georgia Soil Survey:
Covington Area, 1901



**Soil Survey in
Transition -
Celebrating the Past,
Connecting to the
Future**

**National Cooperative Soil Survey Georgia
December 18, 2014**



“Each soil has had its own history. Like a river, a mountain, a forest, or any natural thing, its present condition is due to the influences of many things and events of the past.” - Charles Kellogg

Soil Survey of
Newton and
Rockdale Counties,
Georgia



Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
AKA	Alta Vista sandy loam, 0 to 2 percent slopes, rarely flooded	142.4	0.1%
AMB	Appling sandy loam, 2 to 6 percent slopes	1,120.3	0.5%
APD	Ashlar-Pacolet complex, 2 to 15 percent slopes	780.0	0.3%
APL	Ashlar-Pacolet complex, 15 to 25 percent slopes	1,482.6	0.6%
BuB	Buncombe loamy sand, 0 to 6 percent slopes, occasionally flooded	512.1	0.2%
CeB	Cecil sandy loam, 2 to 6 percent slopes	7,366.8	3.1%
CeC	Cecil sandy loam, 6 to 10 percent slopes	2,329.7	1.0%
ClB2	Cecil sandy clay loam, 2 to 6 percent slopes, eroded	4,431.2	1.9%
ClC2	Cecil sandy clay loam, 6 to 10 percent slopes, eroded	6,639.7	2.8%



Modern Survey from Covington Area

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Soil Survey in Georgia

The Soil Survey program in Georgia reached a milestone in 2014 when the soil survey of Bartow County was completed and made publicly available on the Web Soil Survey. This event is a culmination of a project that began over 100 years ago as a cooperative effort between what are now the University of Georgia, the USDA Natural Resources Conservation Service, and the USDA Forest Service. Over 100 soil scientists traversed the Georgia landscape, observing, examining, studying, sampling, analyzing, and classifying and naming the soils. Lines were drawn on a map to identify where the soils occurred and distinguish each soil body from others on the land. For over 100 years, over 100 soil scientists studied the nature and properties of soils, mapped their location on the landscape, and interpreted their character to help people understand these valuable resources and use them wisely. This narrative provides historical information about the soil survey in Georgia and the people who worked to develop this foundational resource.

Congress initiated a systematic approach to the study and inventory of soils in the U. S. in 1899. The National Cooperative Soil Survey was established as a cooperative effort of the U. S. Department of Agriculture and the State Agricultural Experiment Stations, with local cooperation from other federal, state, and local entities. Early Georgia soil surveys were produced by personnel from the United States Department of Agriculture, Bureau of Soils, in cooperation with the Georgia State College of Agriculture. These documents included an area-wide soil map at a scale of 1 inch to 1 mile, with lines drawn on paper maps and a legend with color coded map units. The completed surveys also contained descriptions and information about the soils as well as the general nature and agricultural conditions of the area.

Soil surveys of Cobb County, and of the Covington area, were the first to be completed in Georgia. The U. S. Department of Agriculture, Bureau of Soils, published these surveys in 1901. The Covington area had 3 map units: Cecil clay, Cecil sandy loam, and Meadow. Cobb County had four map units: Cecil clay, Cecil sandy loam, and Herndon stony loam.

The first soil series established in Georgia were Tifton, Grady, and Chastain. These soils were established during the soil survey of Grady County, which was conducted by Hugh Hammond Bennett and published in 1909. Hugh Hammond Bennett, the first Chief of the Soil Conservation Service, worked on three of the early Georgia soil surveys and served as Inspector of the Southern Division for a number of years.

Reorganization moved soil survey from the Bureau of Soils to the Bureau of Chemistry and Soils, then to the Bureau of Plant Industry, and then to the Bureau of Plant Industry, Soils, and Agricultural Engineering. The Soil Conservation Service (SCS) was established in 1935, but it was

not until 1952 that the soil survey program was placed under this new agency. The first soil survey published by the Soil Conservation Service in Georgia was Towns County in 1954. Fulton County was published in 1958 as the first soil survey in the state printed on aerial photographs. Many of the early surveys were listed as for sale by the superintendent of documents for between 10 and 45 cents.

The Soil Conservation Service became the Natural Resources Conservation Service (NRCS) in 1994. Soon thereafter, the soil survey program was restructured to approach soil survey based on Major Land Resource Areas (MLRA's). Field soil survey teams were developed as part of the approach to conducting soil surveys. These teams combine expertise from soil scientists working in similar areas across the state, and into other states, to work with soil classification, correlation, and interpretations. Permanent MLRA soil survey offices were established to replace the transient, individual project offices. Soil Survey quality assurance responsibilities were transferred to regional MLRA management offices. A restructuring of the Soil Survey Division to the Soil Science Division in 2012 moved soil survey offices from a state oriented structure to one that is regionally based, further enhancing the soil survey work on a MLRA scale.

Contributions from the University of Georgia have been an integral part of soil survey activities in Georgia throughout the years. The University has played a vital role in the soil survey program through soil investigations and research in soil genesis, classification, and the relationships between soil properties and interpretations. The University of Georgia and Fort Valley State University provided formal education to many of our soil scientists, and also provides continued education to soil survey personnel and others. Many of the early Georgia soil surveys were conducted by soil scientists from the University system. Soil surveys completed from 1901 until 1937 were conducted in cooperation with the Georgia State College of Agriculture. Surveys from 1939 to 1959 listed the University of Georgia, College of Agriculture, as the cooperator. This was followed by Georgia Agricultural Experiment Stations in 1960, the University of Georgia, College of Agriculture, Agricultural Experiment Stations in 1961, and the University of Georgia, College of Agricultural and Environmental Sciences, Agricultural Experiment Stations in 1994.

The United States Forest Service has also been an integral part of the National Cooperative Soil Survey in Georgia. NRCS and Forest Service soil scientists worked together on surveys containing Forest Service lands, designing legends and map units, and mapping, reviewing, and correlating the soils cooperatively. Knowledge shared among all partners has been a tremendous asset for the program throughout the state.

A National initiative to digitize soil surveys began in 2005. All of Georgia's soil surveys were published in paper book form with paper maps until this time. Soil maps from these publications were recompiled and digitized and made part of a National Soil Survey Geographic

(SSURGO) database. The first Georgia soil survey to have a digital product completed and publicly available was Newton and Rockdale Counties, Georgia in 2006. All of the initial soil surveys that were completed since that time were digitized as part of the soil survey process. The Web Soil Survey was created and implemented in 2005 as an internet-based, interactive application for delivering soil survey maps and information. As of January 2014, the Web Soil Survey now contains and provides soil survey information for all counties in Georgia.

Soil survey tools and technology have changed considerably over the years. In the early days, transportation was by horse and buggy. Today we have 4 wheel drive trucks, ATV's, and occasionally use boats and helicopters to reach remote areas. From drawing maps with a plane table and an alidade, we have gone to aerial photographs, satellite imagery, digital ortho photographs and LIDAR imagery. From presenting information with manually developed interpretive tables and hand colored maps, we now develop, interpret, and display soils information using NASIS from remote locations by way of internet access. Today we locate areas with precision using GPS, and we measure water movement in soils in the field for better interpretations. Ground penetrating radar provides us with a better understanding of the distribution of soil properties beneath the surface. The Covington area, which was the first soil survey to be published in Georgia, now has a SSURGO certified digital soil survey available on the internet.

Early soil surveys were made primarily for farm planning, emphasizing surface textures, erosion, and land capability. Although this is still an important use of soil surveys, other disciplines have now come to appreciate the value of our products. Soil surveys today have found their place in environmental assessment and planning, forestry and wildlife management, and urban planning.

Soil Survey offices located in Georgia, and that are responsible for parts of Georgia, are now organized by Major Land Resource Areas. Current soil survey activities involve evaluating the data that has been developed over the last sixty years, and bringing it up to current standards and consistency. Future projects will look more closely at soils through soil investigation projects and study variability across the landscape. More emphasis is now being placed on helping people to understand soils and use the information we develop. Soil scientists in Georgia work with students of all ages, educators, and professionals within NRCS and in many other agencies and private organizations.

Regardless of the changes that have occurred over the years, the foundation of the soil survey program still relies on knowledgeable soil scientists in the field closely observing and learning about the soils, and passing along the knowledge to others. I have seen a quote attributed to R. S. Smith, Director, Illinois Soil Survey, in a statement he made in September 1928, in response to a question about what it would take to complete the soil survey of the state.

"I hope the answer to your question is clearly indicated in what I have written. It is that the soil survey will never be completed because I cannot conceive of the time when knowledge of soils will be complete. Our expectation is that our successors will build on what has been done, as we are building on the work of our predecessors." R. S. Smith, Director, Illinois Soil Survey in September 27, 1928.

Soil Survey in Georgia

The initial soil survey of Georgia was completed in January 2014. As a result, soil survey maps and information are now available for all counties in Georgia. The following information is extracted from the combined soils data for all Georgia soil surveys.

<u>Soil survey areas in Georgia</u>	
Total Survey areas	95 survey areas, 159 counties
Largest survey rea	Clinch and Echols Counties, 796,500 acres
Smallest survey area	Catoosa County, 103,900 acres
First soil survey	Cobb County, 1901; Covington Area, 1901
First soil survey by the Soil Conservation Service	Towns County, 1954
First soil survey published on aerial photography	Fulton County, 1958
First soil survey of the “modern” era	Fulton County, 1958
First soil survey digitized	Newton and Rockdale Counties, 2008
Last soil survey completed	Bartow, 2014

Three soils were identified and mapped in the soil survey of the Covington Area:

Cecil clay, Cecil sandy loam, and Meadow

Four soils were identified and mapped in the soil survey of Cobb County:

Cecil clay, Cecil sandy loam, Herndon stony loam, and Meadow

Soil Map Units	
Total map units in Georgia	5,070
Number of unique map units	2,806
Average/survey area	53
Most map units/survey area	159 Bartow
Smallest number of map units	20 Camden and Glynn
Consociations	4,170
Complexes	1,360
Undifferentiated Groups	413
Associations	88

Top 10 map units in Georgia, based on number of occurrences

Map unit Name	Count
Water	95
Tifton loamy sand, 2 to 5 percent slopes	31
Orangeburg loamy sand, 2 to 5 percent slopes	30
Tifton loamy sand, 0 to 2 percent slopes	29
Dothan loamy sand, 2 to 5 percent slopes	23
Dothan loamy sand, 0 to 2 percent slopes	22
Orangeburg loamy sand, 0 to 2 percent slopes	22
Cowarts loamy sand, 2 to 5 percent slopes	21
Lucy loamy sand, 0 to 5 percent slopes	21

Top 10 map units in Georgia, based on acres

Map unit Name	Acres
Tifton loamy sand, 2 to 5 percent slopes	1,352,820
Water	838,023
Pelham loamy sand	669,091
Dothan loamy sand, 2 to 5 percent slopes	626,803
Mascotte fine sand, 0 to 2 percent slopes	451,836
Fuquay loamy sand, 1 to 5 percent slopes	446,352
Orangeburg loamy sand, 2 to 5 percent slopes	440,834
Cecil sandy loam, 2 to 6 percent slopes	353,257
Cecil sandy clay loam, 6 to 10 percent slopes, eroded	342,662
Surrency mucky fine sand, ponded, 0 to 1 percent slopes	340,343
Dasher-Dorovan-Croatan association, ponded, 0 to 1 percent slopes	320,038

Soil Series used in Georgia

1st soil series to be established in Georgia: Chastain, Grady, and Tifton, Soil Survey of Grady County, Georgia, 1908

Last Soil Series established in Georgia: Shoulderbone, in the soil survey of Hancock and Taliaferro Counties, 2013

Total number of soil series used in Georgia: 348

Soil series established in Georgia: 91

Soil series that have their type location in Georgia: 80

1st soil series to be established in Georgia: Tifton and Grady, in the Soil Survey of Grady County, 1908

Top 10 soil series in Georgia, based on acres.

Soil Series	Acres
Cecil	2,341,741
Tifton	1,889,814
Madison	1,459,668
Pelham	1,340,089
Pacolet	1,228,781
Fuquay	1,081,081
Orangeburg	916,105
Cowarts	832,561
Dothan	724,493
Lakeland	651,417

Top 10 soil series in Georgia, based on occurrences.

Soil Series	Count
Madison	204
Cecil	194
Pacolet	144
Orangeburg	144
Tifton	127
Lloyd	116
Appling	114
Lakeland	107
Cowarts	110
Norfolk	82



Cecil (left) and Tifton (right) soil profiles. Photo credits: Cecil, John Kelly; Tifton, Tim Kring and Ernie Smith.

Soil Taxonomic classes in Georgia

Taxonomic class	Acres
Fine, kaolinitic, thermic Typic Kanhapludults	6,371,544
Fine-loamy, kaolinitic, thermic Plinthic Kandiudults	2,540,226
Fine-loamy, kaolinitic, thermic Typic Kandiudults	1,105,791
Loamy, kaolinitic, thermic Arenic Plinthic Kandiudults	1,087,024
Loamy, siliceous, subactive, thermic Arenic Paleaquults	887,497
Fine-loamy, kaolinitic, thermic Typic Kanhapludults	814,447
Fine, kaolinitic, thermic Rhodic Kanhapludults	738,515
Thermic, coated Typic Quartzipsamments	666,490
Fine, kaolinitic, thermic Typic Kandiudults	591,119
Loamy, siliceous, thermic Arenic Paleaquults	534,037

Soil Order	Acres
Ultisols	26,912,707
Entisols	3,466,094
Inceptisols	2,344,798
Spodosols	1,336,798
Alfisols	788,563
Histosols	341,370
Mollisols	715
Vertisols	572

Georgia Soil Surveys and the Contributing Soil Scientists

Changes in cooperator names appear in **bold print**. Soil surveys by the United States Department of Agriculture, Bureau of Soils, in cooperation with the Georgia State College of Agriculture

Survey Area	Year	Conducted by
Cobb County	1901	R. T. Avon Burke and Herbert W. Marean
Covington Area	1901	Herbert W. Marean
Fort Valley Area	1903	William G. Smith and William T. Carter, Jr.
Bainbridge Area	1904	Elmer O. Fippin and J. A. Drake
Dodge County	1904	Charles W. Ely and A. M. Griffin
Spalding County	1905	J. E. Lapham
Waycross Area	1906	Earl Carr and W. E. Tharp
Thomas County	1908	Hugh H. Bennett and Charles J. Mann
Grady County	1909	Hugh H. Bennett and Party
Tift County	1909	J. C. Britton and Percy O. Wood
Franklin County	1909	W. E. McLendon
Hancock County	1909	Gustavus B. Maynadier and W. J. Geib
Pike County	1909	Charles N. Mooney and Gustavus Maynadier
Bulloch County	1910	Charles N. Mooney, R. B. Hardison, David D. Long, and W. C. Byers
Sumter County	1910	J. C. Britton and F. S. Welsh
Walker County	1910	W. E. McLendon
Chatham County	1911	W. J. Latimer and Floyd S. Bucher
Columbia County	1911	Charles N. Mooney and Arthur E. Taylor
Glynn County	1912	David D. Long and James E. Ferguson
Tattnall County, Reconnaissance	1912	Hugh H. Bennett
Troup County	1912	A. T. Sweet and Howard C. Smith
Ben Hill County	1913	Allen L. Higgins, David D. Long (2)
Chattooga County	1913	A. W. Mangum, David D. Long (2)
Dougherty County	1913	M. Earl Carr, H. Jennings, Thomas D. Rice, David D. Long (2)
Habersham County	1913	David D. Long (2) and E. C. Hall
Stewart County	1913	David D. Long (2), M. W. Beck, E. C. Hall, and W. W. Burdette
Talbot County	1913	R. A. Wilson and H. W. Hawker
Colquitt County	1914	A. T. Sweet and J. B. R. Dickey
De Kalb County	1914	David D. Long (2) and Mark Baldwin
Gordon County	1914	J. O. Veatech
Jeff Davis County	1914	Percy O. Wood, W. J. Latimer, H. C. Goodrich, and E. C. Hall
Jones County	1914	David D. Long (2), G. A. Crabb, L. L. Brinkley, Risden T. Allen, and E. J. Grimes
Miller County	1914	Risden T. Allen and E. J. Grimes
Tattnall County	1914	Arthur E. Taylor, Thomas D. Rice, Cornelius Van Duyne, and E. H. Stevens
Jackson County	1915	David D. Long (2) and Mark Baldwin
Terrell County	1915	David D. Long (2) and Mark Baldwin

Survey Area	Year	Conducted by
Wilkes County	1915	David D. Long (2)
Clay County	1916	William G. Smith and N. M. Kirk
Laurens County	1916	A. T. Sweet, Grove B. Jones, E. T. Maxon, T. M. Morrison, and E. C. Hall
Polk County	1916	David D. Long (2) and Mark Baldwin
Turner County	1916	E. C. Hall and David D. Long (2)
Washington County	1916	R. A. Winston, J. H. Agee, J. A. Kerr, and M. Earl Carr
Crisp County	1917	E. T. Maxton and David D. Long (2)
Meriwether County	1917	Mark Baldwin and J. A. Kerr
Richmond County	1917	T. M. Bushnell and J. M. Snyder
Brooks County	1918	A. T. Sweet and B. W. Tillman
Jasper County	1918	David D. Long (2) and M. Earl Darr
Burke County	1919	E. T. Maxon, E. E. Deardorff, W. A. Rockie, and J. M. Snyder
Butts and Henry Counties	1919	David D. Long (2), C. E. Deardoff, and Grove B. Jones
Coweta and Fayette Counties	1919	David D. Long (2), A. L. Patrick, A. M. O'Neal, Jr., and E. H. Stevens
Oconee, Morgan, and Putnam Counties	1919	David D. Long (2), E. T. Maxon, N. M. Kirk, H. G. Lewis, F. A. Hayes, E. C. Hall, H. V. Geib, and G. A. Crabb
Lowndes County	1920	David D. Long (2) and N. M. Kirk
Pierce County	1920	E. T. Maxon and N. M. Kirk
Pulaski County	1920	A. H. Meyer (2)
Rockdale County	1920	A. H. Meyer (2)
Screven County	1920	David D. Long (2), H. G. Lewis, N. M. Kirk, and E. H. Stevens
Carroll County	1921	H. G. Lewis, A. T. Sweet, Mark Baldwin, J. M. Snyder, R. L. Gillett, R. T. Avon Burke, and A. H. Meyer (2)
Early County	1921	David D. Long (2) and E. C. Hall
Floyd County	1921	David D. Long (2)
Madison County	1921	David D. Long (2)
Mitchell County	1922	David D. Long (2), Mark Baldwin, Earl D. Fowler, H. W. Hawker, and H. V. Geib
Monroe County	1922	David D. Long (2), F. A. Hayes, A. M. O'Neal, Jr., and C. E. Deardorff
Rabun County	1924	David D. Long (2)
Bibb County	1926	S. W. Phillips (2) and A. H. Myer (2), Mark Baldwin, and J. W. Moon
Dooly County	1926	S. W. Phillips (2), E. W. Knobel, G. L. Fuller, and J. W. Moon
Fannin County	1926	S. W. Phillips (2) and J.W. Stephenson (2)
Jenkins County	1926	Earl D. Fowler and J. M. Snyder
Muscogee County	1926	S. W. Phillips and A. T. Sweet

Soil surveys by the United States Department of Agriculture, **Bureau of Chemistry and Soils**, in cooperation with the Georgia State College of Agriculture

Survey Area	Year	Conducted by
Bartow County	1926	G. L. Fuller and H. H. Shores
Wayne County	1926	G. L. Fuller (2) and S. O. Perkins
Clarke County	1927	G. L. Fuller (2)
Lee County	1927	J. W. Moon
Calhoun County	1928	J. W. Moon, and H. G. Lewis
Chattahoochee County	1928	E. W. Knobel, J. W. Moon, S. W. Phillips, and A. T. Sweet
Cook County	1928	John W. Moon and A. L. Gray
Elbert County	1928	C. L. Fuller (2) and B. H. Henderson
Lamar County	1928	S. O. Perkins, F. A. O'Neal, Jr., and C. E. Deardorff
Randolph County	1928	S. W. Phillips, Earl D. Fowler, E. W. Knobel, J. W. Moon, and G. L. Fuller (2)
Hart County	1929	G. L. Fuller (2)
McIntosh County	1929	G. L. Fuller (2) and R. H. Hendrickson and J. W. Moon
Quitman County	1929	R. E. Devereux and Earl D. Fowler
Worth County	1929	Robert Wildermuth, S. W. Phillips, J. A. Kerr, A.L. Gray, and W. D. Lee
Jefferson County	1930	R. T. Avon Burke, S. W. Phillips, J. W. Moon, R. Wildermuth, and A. L. Gray
McDuffie County	1937	G. L. Fuller (2) and A. H. Hasty

Soil surveys by the United States Department of Agriculture Bureau of Chemistry and Soils, in cooperation with **the University of Georgia College of Agriculture**

Survey Area	Year	Conducted by
Decatur County	1939	A. H. Hasty, Earl D. Fowler, R. T. Avon Burke, W. H. Buckhannan, Z. C. Foster, and C. L. Fuller (2)
Toombs County	1939	Arthur E. Taylor, W. H. Buckhannan, A. H. Hasty, and John T. Miller

Soil surveys by the United States Department of Agriculture **Bureau of Plant Industry**, in cooperation with the University of Georgia College of Agriculture

Survey Area	Year	Conducted by
Hall County	1941	John T. Miller, Mathew Drosdoff, and G.L. Fuller (2)
Bartow County	1941	Reprint
Catoosa County	1941	Arthur E. Taylor, J. C. Mercer, G. D. Thornton, and J. A. Bowers
Dade County	1942	Arthur E. Taylor, J. C. Mercer, J. T. Conger, and G. D. Thornton

Soil surveys by the United States Department of Agriculture, **Agricultural Research Administration, Bureau of Plant Industry, Soils, and Agricultural Engineering**, in cooperation with the University of Georgia College of Agriculture

Survey Area	Year	Conducted by
Candler County	1948	T. E. Beesley
Union County	1950	John T. Miller, Arthur E. Taylor, J. C. Mercer(2), O. L. Dodd(2), and J.L. Robison

Soil surveys by the United States Department of Agriculture, **Soil Conservation Service**, in cooperation with the University of Georgia, College of Agriculture and the **Tennessee Valley Authority**

Survey Area	Year	Conducted by
Towns County	1954	John T. Miller, O. L. Dodd(2), J. L. Robinson(2), J. H. Walker(2), and P. R. Milford(2)

Soil surveys by the United States Department of Agriculture, Soil Conservation Service, in cooperation with the University of Georgia, College of Agriculture

Survey Area	Year	Conducted by
Fulton County	1958	J. H. Walker(2), J. T. Miller, T. W. Green, and R. F. Wells
Tift County	1959	E. R. Jensen, L. E. Aull, J. L. Shepard, C. B. Thomas, R. L. Carter, E. S. Haygood, and R. G. Middleton

Soil surveys by the United States Department of Agriculture, Soil Conservation Service, in cooperation with **Georgia Agricultural Experiment Stations**

Survey Area	Year	Author	Field Work
Forsyth County	1960	S. M. Robertson, C. L. McIntyre, F. T. Ritchie, Jr., and Glenn V. Wilson	S. M. Robertson, Dan D. Bacon, Carl B. Lawrence, Hugh T. Davis, J. P. Knight, and Forrest Steele
Douglas County	1961	R. D. Wells, C. L. McIntyre, and Frank Ritchie, Jr.	R. D. Wells, J. F. Brooks, T. N Crabb, and H. B. Ravenholt

Soil surveys by the United States Department of Agriculture, Soil Conservation Service, in cooperation with **the University of Georgia, College of Agriculture, Agricultural Experiment Stations**

and

Soil surveys by the United States Department of Agriculture, Soil Conservation Service and **Forest Service ***, in cooperation with **the University of Georgia, College of Agriculture, Agricultural Experiment Stations**

Survey Area	Year	Author	Field Work
McIntosh County	1961	Hubert J. Byrd, D. Gray Aydelot, Daniel D. Bacon, and Edward M. Stone	Hubert J. Byrd, D. Gray Aydelot, Daniel D. Bacon, and Edward M. Stone
Hart County	1963	Dan H. Jordan, Alexander Wright, and Louie W. Frost	Dan H. Jordan, Alexander Wright, and Louie W. Frost
Habersham County *	1963	Stanley M. Robertson, C. L. McIntyre, and Frank Ritchie	Stanley M. Robertson, Sidney M. Jones, T. W. Green (1), and Chester Robinson (2)
Twiggs County	1963	John C. Woods, H. J. Byrd, and Frank T. Ritchie,	John C. Woods, W. C. Player, and R. W. Craft
Spalding County	1964	Hugh T. Davis and Jerry A. Pilkinton	Hugh T. Davis and Jerry A. Pilkinton
Treutlen County	1964	Erwin E. Iseley, J. L. Sullivan, and R. L. Wilkes	Erwin E. Iseley, and J. L. Sullivan
Walton County	1964	Grover J. Thomas, Jr., and Ray J. Tate	John H. Johnson, Sidney M. Jones, T. W. Green, Grover J. Thomas, Jr., and Ray J. Tate
Gordon County	1965	Glenn L. Bramlett	Glenn L. Bramlett and Howard. T. Stoner
Meriwether County	1965	R. D. Wells	R. D. Wells, J. F. Brooks, and T. N. Crabb
Morgan County	1965	Harley H. Payne	Harley H. Payne and Jerry A. Pilkinton
Wayne County	1965	D. Gray Aydelott, Herschel L. Paulk, and Dan D. Bacon	D. Gray Aydelott, Herschel L. Paulk, and Dan D. Bacon
Gwinnett County	1967	Ray J. Tate	H. C. Ammons, S. M. Jones, G. J. Thomas, and S. M. Robertson
Houston and Peach Counties	1967	John C. Woods	John C. Woods, J. O. Murphy, and T. A. Rigdon
Bulloch County	1968	Herschel L. Paulk	Herschel L. Paulk, Jack R. Brown, and Daniel D. Monts
Clarke and Oconee Counties	1968	Stanley M. Robinson	Stanley M. Robinson
Dougherty County	1968	Royce G. Middleton	Royce G. Middleton, Marion Blevins, Ernest H. Smith, Russell O. Neal, and W. S. Carson
Jenkins County	1968	Jack R. Brown	Jack R. Brown, Daniel D. Monts, and Herschel L. Paulk
Pierce County	1968	Howard T. Stoner	Howard T. Stoner , John H. Johnson, and Gray Aydelott
Ben Hill and Irwin Counties	1969	John W. Calhoun and Garnet J. Wood	John W. Calhoun, Joe G. Stevens, and Winfield Carson

Survey Area	Year	Author	Field Work
Banks and Stephens Counties*	1971	George G. Brock	Ernest G. Nicholson, George G. Brock, Louie W. Frost, Jr., Harold C. Ammons, T. W. Green (1), and Chester C. Robinson (1)
Carroll and Haralson Counties	1971	J. F. Brooks	J. F. Brooks, T. N. Crabb, R. D. Wells
Dawson, Lumpkin, and White Counties*	1972	C. L. McIntyre	Richard O. Atkins, Gene A. Gaither, C. L. McIntyre, T. W. Green (1), and Chester C. Robinson (1)
Lamar, Pike, and Upson Counties	1972	Hugh T. Davis	Hugh T. Davis, W. S. Carson, and H. H. Payne
Berrien and Lanier Counties	1973	Joe G. Stevens	Joe G. Stevens, Garnet J. Wood, and Winfield S. Carson
Cherokee, Gilmer, and Pickens Counties *	1973	Dan H. Jordan, Glenn L. Bramlett, Gene A. Gaither, Ray J. Tate, Marion M. Blevins, James O. Murphy	Dan H. Jordan, Glenn L. Bramlett, Gene A. Gaither, Ray J. Tate, Marion M. Blevins, and James O. Murphy
Cobb County	1973	Grover J. Thomas, Jr.	R. J. Tate, and Grover J. Thomas, Jr.
Montgomery, Toombs, and Wheeler Counties	1973	Herschel L. Paulk	Erwin E. Iseley, Garnet J. Wood, and Daniel D. Monts
Bryan and Chatham Counties	1974	Robert L. Wilkes, J. H. Johnson, H. T. Stoner, D. D. Bacon	Robert L. Wilkes, J. H. Johnson, H. T. Stoner, and D. D. Bacon
Schley and Sumter Counties	1974	J. A. Pilkinton	E. H. Smith, J. A. Pilkinton, and R. O. Neal
Appling and Jeff Davis Counties	1975	Thomas A. Rigdon	Dan D. Bacon, Erwin E. Iseley, Thomas A. Rigdon, and Robert L. Wilkes
Colquitt and Cook Counties	1975	John W. Calhoun and Joe G. Stevens	John W. Calhoun, Joe G. Stevens, and Garnet J. Wood
Baldwin, Jones, and Putnam Counties *	1976	Harley H. Payne	Harley H. Payne, Winfield S. Carson, Hugh T. Davis, Jerry A. Pilkinton, T. W. Green (1), D. Gray Aydelot (1), Chester C. Robinson (1)
Miller and Seminole Counties	1976	Royce G. Middleton and Ernest H. Smith	Royce G. Middleton and Ernest H. Smith
Barrow, Hall, and Jackson Counties	1977	George G. Brock	George G. Brock, Stanley M Robertson, and C. L. McIntyre
Chattooga, Floyd, and Polk Counties	1978	Ray J. Tate	Mickey M. Blevins, Glenn L. Bramlett, Gene, A. Gaither, and Ray J. Tate
Lee and Terrell Counties	1978	Jerry A. Pilkinton	Jerry A. Pilkinton and Ernest H. Smith
Bibb County	1979	John C. Woods	John C. Woods and Harley Payne
Brooks and Thomas Counties	1979	John W. Calhoun	John W. Calhoun, Joe G. Stevens, Ernest H. Smith, Winfield S. Carson, Richard H. Gilbert, Russell O. Neal, and Garnet, J. Wood
Clayton, Fayette, and Henry Counties	1979	James O. Murphy	Hugh T. Davis, Sidney M. Jones, James O. Murphy, and Grover J. Thomas

Survey Area	Year	Author	Field Work
Elbert, Franklin, and Madison Counties	1979	Louie W. Frost, Jr.	George G. Brock and Carlos L. McIntyre
Lowndes County	1979	Joe G. Stevens	Joe G. Stevens, and Richard Gilbert
Camden and Glynn Counties	1980	Thomas A. Rigdon and Alfred J. Green	Thomas A. Rigdon, Alfred J. Green, Howard T. Stoner, D. Gray Aydelot, Robert L. Wilkes, John H. Johnson, and Marion M. Blevins
Candler, Evans, and Tattnall Counties	1980	Herschel L. Paulk	Herschel L. Paulk, Jack R. Brown, Daniel D. Monts, and Tommy Lee Coleman
Coweta, Heard, and Troup Counties	1980	Jule F. Brooks	Jule F. Brooks, Thomas N. Crabb, and Robert D. Wells
Columbia, McDuffie, and Warren Counties	1981	Louie W. Frost, Jr.	J. Tom Ammons, Winfield Carson, and Louie W. Frost, Jr.
Crisp and Turner Counties	1981	John W. Calhoun	John W. Calhoun, Winfield S. Carson, Richard H. Gilbert, Russell O. Neal, Ernest H. Smith, Joe G. Stevens, and Garnet J. Wood
Rabun and Towns Counties*	1981	Winfield S. Carson and T. W. Green (2)	Winfield S. Carson, C. L. McIntyre, T. W. Green (2), and H. C. Bullock (2)
Richmond County	1981	Herschel L. Paulk	Herschel L. Paulk, Jack R. Brown, Harry Hutchins, Edward E. Looper, and Tommy L. Coleman
De Kalb County	1982	Grover J. Thomas, Jr.	Grover J. Thomas and Marion M. Blevins
Liberty and Long Counties	1982	Edward E. Looper	Edward E. Looper, Gary Bill, Mack Thomas, Jr., and Robert L. Wilkes
Dooly and Macon Counties	1983	John C. Woods and Ernest H. Smith	John C. Woods and Richard A. Johnston
Muscogee County	1983	John H. Johnson	Steve K. Higgins, Mark S. Hodge, John H. Johnson, and Mack Thomas, Jr.
Tift County	1983	John W. Calhoun	John W. Calhoun
Calhoun and Early Counties	1985	Jerry A. Pilkinton	Jerry A. Pilkinton, Howard D. Gay, Royce G. Middleton, and Ernest H. Smith
Washington and Wilkinson Counties	1985	Ernest H. Smith	James O. Murphy, Edward E. Looper, Harold D. Kicklighter, William C. Player, and Ernest H. Smith
Baker and Mitchell Counties	1986	Howard T. Stoner	Howard T. Stoner, Winfield S. Carson, and Royce Middleton
Burke County	1986	Herschel L. Paulk	Herschel L. Paulk, K. Steve Lawrence, Jack R. Brown, Jon D. Jones, Tommie L. Coleman, and Daniel D. Monts
Atkinson, Bacon, and Coffee Counties	1988	Thomas A. Rigdon, Alfred J. Green	Alfred J. Green, Thomas A. Rigdon, Howard T. Stoner, and Dan D. Bacon
Worth County	1990	Howard T. Stoner	Howard T. Stoner, Winfield S. Carson, and John W. Calhoun
Johnson and Laurens Counties	1991	Ernest H. Smith	Ernest H. Smith, Mack Thomas, Jr., James R. Lathem, James O. Murphy, Richard A. Johnston, and Edward E. Looper

Survey Area	Year	Author	Field Work
Oglethorpe County	1991	Louie W. Frost, Jr.	Louie W. Frost, Jr., Tom Amons, T. R. Lukers, and C. L. McIntyre
Catoosa County	1993	Kenneth S. Lawrence	Glenn L. Bramlett, Dan H. Jordon, Ray J. Tate, and Edward E. Looper

Soil surveys by the United States Department of Agriculture, Soil Conservation Service, in cooperation with **the University of Georgia, College of Agricultural and Environmental Sciences, Agricultural Experiment Stations**

Survey Area	Year	Author	Field Work
Glascocock and Jefferson Counties	1994	Herschel L. Paulk	Herschel L. Paulk, Mack Thomas, Jr., Steve Lawrence, James R. Lathem, Jon D. Jones, Jack R. Brown, and Dorcas Roberson

Soil surveys by the United States Department of Agriculture, **Natural Resources Conservation Service**, in cooperation with the University of Georgia, College of Agricultural and Environmental Sciences, Agricultural Experiment Stations

Soil surveys by the United States Department of Agriculture, **Natural Resources Conservation Service and Forest Service ***, in cooperation with the University of Georgia, College of Agricultural and Environmental Sciences, Agricultural Experiment Stations

Survey Area	Year	Author	Field Work
Fannin and Union Counties *	1996	Douglas E. Cabe	Richard H. Anderson, Louie Frost, Alan Ardoin (1), Bruce Stoneman (1), Marvin E. Weeks (1), and Johnny Woodruff (3)
Chattahoochee and Marion Counties	1997	Alfred J. Green	Alfred J. Green, Jerome L. Langlinais, John H. Johnson, Mack Thomas, Jr., and Grover J. Thomas
Emanuel County	1999	Mack Thomas, Jr.	Mack Thomas, Jr. Ernest H. Smith, Timothy D. Kring, Herschel L. Paulk, Jon D. Jones, and Erwin E. Iseley
Newton and Rockdale Counties	2000	James R. Lathem	James R. Lathem, Alfred Green, James O. Murphy, and Mack Thomas, Jr.
Bleckley, Dodge, and Telfair Counties	2003	Ernest H. Smith and Thomas A. Rigdon	Ernest H. Smith, Thomas A. Rigdon, Mack Thomas, Jr., James R. Lathem, Timothy D. Kring, James O. Murphy, Edward E. Looper, Alfred Green, Dan D. Bacon, Marion M. Blevins, and Robert Wilkes
Pulaski and Wilcox Counties	2003	Jerry A. Pilkinton	Jerry A. Pilkinton, T. Scott Moore, and Ernest H. Smith
Jasper County *	2004	James R. Lathem	James R. Lathem and Grover Thomas
Grady County	2005	T. Scott Moore	Scott Moore, Dennis Gay, Jerome L. Langlinais, and Jorge L. Lugo
Butts County	2006	James R. Lathem	James R. Lathem, Sherry E. Carlson, and Casey Sowell
Clay and Quitman Counties	2006	Ken W. Monroe	Ken W. Monroe, T. Scott Moore, Rex H. Chandler, Jerry Pilkinton, and Winfield Carson
Lincoln and Wilkes Counties	2006	Walter G. George	Walter G. George, Louie W. Frost, Jr., Richard S. Joslyn, and Thomas G. Macfie
Decatur County	2007	T. Scott Moore	T. Scott Moore, Dennis Gay, Jerome Langlinais, Jorge Lugo
Murray and Whitfield Counties *	2007	Catherine E. Scott and Douglas E. Cabe	Douglas E. Cabe, Joan B. Howard, K. Steve Lawrence, Edward E. Looper, J. Greg Taylor, Gloria J. York, James H. Brown (3), Edward L. O'Brien (3), and Johnny Woodruff (3)
Randolph County	2007	Kenneth W. Monroe	Kenneth W. Monroe, Winfield Carson, Rex H. Chandler, Scott Moore, and Jerry A. Pilkinton
Fulton County	2008	Curtis G. Marshall	Curtis G. Marshall and Daniel Johnson
Effingham County	2008	Casey Sowell	Casey Sowell, Mack Thomas, Jr., and Herschel L. Paulk
Crawford and Taylor Counties	2009	Alfred J. Green	Alfred J. Green, James R. Lathem, Jerry A. Pilkinton, Thomas A. Rigdon, and Mack Thomas, Jr.

Survey Area	Year	Author	Field Work
Monroe County	2009	Dee C. Pederson and Sherry E. Carlson	Sherry E. Carlson, James R. Lathem, and Dee C. Pederson
Stewart County	2010	Kenneth W. Monroe	Ken Monroe, Alfred Green, Jerry A. Pilkinton, and Ernest H. Smith
Paulding County	2011	Curtis G. Marshall	Curtis G. Marshall, Stephon Thomas, David Moore, Roy Mathis, and Beth Anderson
Webster County	2011	Scott Moore	Scott Moore, Alfred Green, and Jerry Pilkinton
Greene County	2013	Dee C. Pederson and Gregory H. Clark	Gregory H. Clark, Dee C. Pederson, Harley H. Payne, and Sherry E. Carlson
Screven County	2013	Gary C. Hankins, Jr.	Gary C. Hankins , Jr., Casey Sowell, Mack Thomas, Jr., Herschel L. Paulk, and Ernest H. Smith

Soil Scientist affiliations

- (1) U.S. Forest Service
- (2) Georgia Agricultural College
- (3) Contracted consultant

Soil Surveys published to the Web Soil Survey

Soil surveys by the United States Department of Agriculture, **Natural Resources Conservation Service**, in cooperation with the University of Georgia, College of Agricultural and Environmental Sciences, Agricultural Experiment Stations

Soil surveys by the United States Department of Agriculture, **Natural Resources Conservation Service and Forest Service**, in cooperation with the University of Georgia, College of Agricultural and Environmental Sciences, Agricultural Experiment Stations *

Survey Area	Year	Author	Field Work
Ware County	2008		Charles A. Lagoueyte, Alfred J. Green, Thomas A. Rigdon, Wade D. Bott, and Nathan Johnson
Dade and Walker Counties*	2012		Mike Henderson, David Moore, Stephon Thomas, Curtis Marshall, Gene Gaither
Brantley and Charlton Counties	2013		Charles A. Lagoueyte, Nathan Johnson, Alfred J. Green, Thomas A. Rigdon, David E. Turcotte, Howard T. Stoner, John H. Johnson
Clinch and Echols Counties	2013		Charles A. Lagoueyte, Greg Taylor, Gary C. Hankins Jr., Nathan Johnson, Joe G. Stevens, Robert Weatherspoon, Cleo Stubbs, Alvin Perez-Torres, Alfred J. Green, Kenneth W. Monroe, T. Scott Moore
Hancock and Taliaferro Counties	2013		Bob Evon, Dee C. Pederson, Gregory H. Clark, Harley H. Payne, Jennifer Treadway, Sherry E. Carlson
Harris and Talbot Counties	2013		Stephon Thomas, Curt Marshall, Alfred Green
Bartow County	2014		Mike Henderson, Cathy Scott, David Moore, Phil Smith, Gene Gaither

Georgia Soil Scientists and the Soil Surveys Worked

1901-1954

Soil Scientist	Soil Surveys from 1901-1954
Agee, J. A.	Washington 1916
Baldwin, Mark	DeKalb 1914, Jackson 1915, Terrell 1915, Polk 1916, Meriwether 1917, Carroll 1921, Bibb, 1926
Beck, M. W.	Stewart 1913
Beesley, T. E.	Candler 1948
Bennett, Hugh H.	Thomas 1908, Grady 1908, Tattnall, 1912
Bowers, J. A.	Catoosa 1941
Brinkley, L. L	Jones 1914
Britton, J. C.	Tift 1909, Sumter 1910
Bucher, Floyd S.	Chatham 1911
Buckhannan, Z. C.	Decatur 1939, Toombs 1939
Burdett, W. W.	Stewart 1913
Burke, R. T Avon	Cobb 1901, Carroll 1921, Jefferson 1930, Decatur 1939
Bushnell, T. M.	Richmond 1917
Byers, W. C.	Bulloch 1910
Carr, M. Earl	Waycross Area 1906, Dougherty 1913, Washington 1916
Carter, R. L.	Tift 1959
Carter, William T, Jr.	Fort Valley Area 1903
Conger, J.T.	Dade 1941
Crabb, G. A.	Jones 1914, Oconee, Morgan, and Putnam 1919
Deardorff, E. E.	Burke 1919, Monroe 1921, Lamar 1928
Devereux, R. E.	Quitman 1929
Dickey, J. B. R.	Colquitt 1914
Dodd, O. L.	Union 1954, Towns 1954
Drake, J. A.	Bainbridge Area 1904
Drosdoff, Mathew	Hall 1941
Ely, Charles W.	Dodge 1904
Fippin, Elmer O.	Bainbridge Area 1904
Foster, Z. C.	Decatur 1939
Fowler, Earl D.	Mitchell 1922, Jenkins 1926, Randolph 1928, Quitman 1929, Decatur 1939
Fuller, G. L	Bartow 1926, Wayne 1926, Dooly 1926, Clarke 1927, Ebert 1928, Hart 1929, McIntosh 1929, McDuffie 1927, Decatur 1939, Hall 1941
Ferguson, James E.	Glynn 1912
Geib, H. V.	Oconee, Morgan, and Putnam 1919, Mitchell 1922
Geib, W. J.	Hancock 1909
Gillett, R. L.	Carroll 1921
Goodrich, H. C.	Jeff Davis 1914
Gray, A. L.	Cook 1928, Worth 1929, Jefferson 1930
Griffin, A. M.	Dodge 1904
Grimes, E. J.	Jones 1914, Miller 1914

Soil Scientist	Soil Surveys from 1901-1954
Hall, E. C.	Habersham 1913, Stewart 1913, Jeff Davis 1914, Laurens, 1916, Turner 1916, Oconee, Morgan, and Putnam 1919, Early 1921
Hardison, R. B.	Bulloch 1910
Hasty, A. H.	McDuffie 1937, Decatur 1939, Toombs 1939
Hawker, H. W.	Talbot 1913, Mitchell 1922
Hayes, F. A.	Oconee, Morgan and Putnam 1919, Monroe 1922
Henderson, B. H.	Elbert 1928
Hendrickson, R. H.	McIntosh 1929
Higgins, Allen L.	Ben Hill 1913
Higgins, Steve K.	Muscogee 1983
Jennings, H.	Dougherty 1913
Jones, Grove B.	Laurens 1916, Butts and Henry 1919
Kerr, J. A.	Washington 1916, Meriwether 1917, Worth 1929
Kirk, N.M.	Clay 1916, Oconee , Morgan, and Putnam 1919, Lowndes 1920, Pierce, 1920, Screven 1920
Knobel, E. W.	Dooly 1926, Chattahoochee 1928, Randolph 1928
Lapham, J. E.	Spalding 1905
Latimer, W. J.	Chatham 1911, Jeff Davis 1914
Lee, W. D.	Worth 1929
Lewis, H.G.	Oconee, Morgan, and Putnam 1919, Screven 1920, Carrol 1921, Calhoun 1928
Long, David D.	Bulloch 1910, Glynn 1912, Ben Hill 1913, Chattooga 1913, Dougherty 1913, Habersham 1913, Stewart 1913, DeKalb 1014, Jones 1914, Jackson 1915, Terrell 1915, Wilkes, 1915, Polk 1916, Turner 1916, Crisp 1917, Jasper 1918, Butts and Henry 1919, Coweta and Fayette 1919, Oconee , Morgan, and Putnam 1919, Lowndes 1920, Screven 1920, Early 1921, Floyd 1921, Madison 1921, Mitchell 1922, Monroe 1922, Rabun 1924
Mangum, A. W.	Chattooga 1913
Mann, Charles J.	Thomas 1908
Marean, Herbert W.	Cobb 1901, Covington Area 1901
Maxon, E. T.	Laurens 1916, Burke 1916, Crisp 1917, Oconee , Morgan, and Putnam 1919, Pierce 1920
Maynadier, Gustavus B.	Hancock 1909, Pike 1909
McLendon, W. E.	Franklin 1909, Walker 1910
Mercer, J. C.	Catoosa 1941, Dade 1941, Union 1950
Meyer, A. H.	Pulaski 1920, Rockdale 1920, Carroll 1921, Bibb 1926
Milford, P. R.	Towns 1954
Miller, John T.	Toombs 1939, Hall 1941, Union 1950, Towns 1950, Fulton 1958
Moon, J. W.	Bibb 1926, Dooly 1926, Lee 1927, Calhoun 1928, Chattahoochee 1928, Cook 1928, Randolph 1928, McIntosh i929, Jefferson 1930
Mooney, Charles N.	Pike 1909, Bulloch 1910, Columbia 1911
Morrison, T. M.	Laurens 1916
O'Neal, A. M., Jr	Coweta and Fayette 1919, Monroe 1922, Lamar 1928
Patrick, A. L.	Coweta and Fayette 1919
Perkins, S. O.	Wayne 1926, Lamar 1928

Soil Scientist	Soil Surveys from 1901-1954
Phillips, S. W.	Bibb, 1926, Dooly 1926, Fannin 1926, Muscogee 1926, Chattahoochee 1926, Randolph 1926, Worth 1929, Jefferson 1930
Rice, Thomas D.	Dougherty 1913, Tattnall 1914
Risden, T. Allen	Jones 1914, Miller 1914
Robinson, J. L.	Union 1954, Towns 1954
Rockie, W. A.	Burke 1919
Shores, H.H.	Bartow 1926
Smith, Howard C.	Troup 1912
Smith, William G.	Fort Valley Area 1903, Clay 1916
Snyder, J. M.	Richmond 1917, Burke 1919, Carroll 1921, Jenkins 1926
Stephenson, J. W.	Fannin 1926
Stevens, E. H.	Tattnall 1914, Coweta and Fayette 1919, Screven 1920
Sweet, A. T.	Troup 1912, Colquitt 1914, Laurens 1916, Brooks 1918, Carroll 1921, Muscogee 1926, Chattahoochee 1928
Taylor, Arthur E.	Columbia 1911, Tattnall 1914, Toombs 1939, Union 1950,
Tharpe, W. E.	Waycross Area 1906
Thornton, G. D.	Catoosa 1941, Dade 1941
Tillman, B. W.	Brooks 1918
Van Duyne, Cornelius	Tattnall 1914
Veatech, J. O.	Gordon 1914
Walker, J. H.	Towns 1954, Fulton 1958
Welsh, F.S.	Sumter 1910
Wildermuth, Robert	Worth 1929, Jefferson 1930
Wilson, Glenn V.	Forsyth 1960
Wilson, R. A.	Talbott 1913
Winwton, R. A.	Washington 1916
Wood, Percy O.	Tift 1909, Jeff Davis 1914,

1958 - 2014

Soil Scientist	Soil Surveys from 1958-2014
Ammons, Harold. C.	Gwinnett 1967, Banks and Stephens 1971
Ammons, J. Tom	Columbia, McDuffie, and Warren 1981
Anderson, Beth	Paulding 2011
Anderson, Richard H.	Fannin and Union 1996
Ardoin, Alan	Fannin and Union 1996
Atkins, Richard O.	Dawson, Lumpkin, and White 1972
Aull, L. E.	Tift 1959
Aydelot, Gray	McIntosh 1961, Wayne 1965, Pierce 1968, Baldwin, Jones, and Putnam 1976, Camden and Glynn 1980
Bacon, Dan D.	Forsyth 1960, McIntosh 1961, Wayne 1965, Bryan and Chatham 1974, Appling and Jeff Davis 1975, Atkinson, Bacon, and Coffee 1988, Bleckley, Dodge, and Telfair 2003
Bill Gary	Liberty and Long 1982
Blevins, Marion M.	Dougherty 1968, Cherokee, Gilmer, and Pickens 1973, Chattooga, Floyd, and Polk 1978, Camden and Glynn 1980, DeKalb 1982, Bleckley, Dodge, and Telfair 2003
Bott, Wade B.	Ware 2008*
Bramlett, Glenn L.	Gordon 1965, Cherokee, Gilmer, and Pickens 1973, Chattooga, Floyd, and Polk 1978, Catoosa 1993
Brock, George G.	Banks and Stephens 1971, Barrow, Hall, and Jackson 1977, Elbert, Franklin, and Madison 1979
Brooks, J. F.	Douglas 1961, Meriwether 1965, Carroll and Haralson 1971 Coweta, Heard, and Troup 1980
Brown, Jack R.	Bulloch 1968, Jenkins 1968, Candler, Evans, and Tattnall 1980, Richmond 1981, Burke 1986, Glascock and Jefferson 1994
Brown, James H.	Murray and Whitfield 2007
Bullock, H. C.	Rabun and Towns 1981
Byrd, Hubert J.	McIntosh 1961, Twiggs 1963
Cabe, Douglas B	Fannin and Union 1996, Murray and Whitfield 2007
Calhoun, John W.	Ben Hill and Irwin 1969, Colquitt and Cook 1975, Brooks and Thomas 1975, Crisp and Turner 1981, Tift 1983, Worth 1990
Carlson, Sherry	Butts 2006, Monroe 2009, Hancock and Taliaferro 2013*
Carson, Winfield S.	Dougherty 1968, Ben Hill and Irwin 1969, Lamar, Pike, and Upson 1972, Berrien and Lanier 1972, Baldwin, Jones, and Putnam 1976, Brooks and Thomas 1979, Columbia, McDuffie, and Warren 1981, Crisp and Turner 1981, Rabun and Towns 1981, Baker and Mitchell 1986, Worth 1990, Clay and Quitman 2006, Randolph 2006
Carter, R. L.	Tift 1959
Chandler, Rex H.	Clay and Quitman 2006, Randolph 2007
Clark, Gregory H.	Greene 2013, Hancock and Taliaferro 2013*
Coleman, Tommy Lee	Candler, Evans, and Tattnall 1980, Richmond 1981, Burke 1986
Crabb, T. N.	Douglas 1961, Meriwether 1961, Carroll and Haralson 1971, Coweta, Heard, and Troup 1980
Craft, R.W.	Twiggs 1963

Soil Scientist	Soil Surveys from 1958-2014
Davis, Hugh T.	Forsyth 1960, Spalding 1964, Lamar, Pike, and Upson 1972, Baldwin, Jones, and Putnam 1976, Clayton, Fayette, and Henry 1979
Evon, Robert	Hancock and Taliaferro 2013*
Frost, Louie W.	Hart 1963, Banks and Stephens 1971, Elbert, Franklin, and Madison 1979, Columbia, McDuffie, and Warren 1981, Oglethorpe 1991, Fannin and Union 1996, Lincoln and Wilkes 2006
Gaither, Gene A.	Dawson, Lumpkin, and White 1972, Cherokee, Gilmer, and Pickens 1973, Chattooga, Floyd, and Polk 1978, Dade and Walker 2012*, Bartow 2014*
Gay, Howard D.	Calhoun and Early 1985, Grady 2005, Decatur 2005
George, Walter G.	Lincoln and Wilkes 2006
Gilbert, Richard H.	Brooks and Thomas 1979, Lowndes 1979, Crisp and Turner 1981
Green, Alfred J.	Camden and Glynn 1980, Atkinson, Bacon, and Coffee 1988, Chattahoochee and Marion 1997, Newton and Rockdale 2000, Bleckley, Dodge, and Telfair 2003, Crawford and Taylor 2009, Stewart 2010, Webster 2011, Ware 2008*, Brantley and Charlton 2013*, Clinch and Echols 2013* Harris and Talbot 2013*
Green, T. W.	Fulton 1958, Habersham 1963, Walton 1964, Banks and Stephens 1971, Dawson, Lumpkin, and White 1971, Baldwin, Jones, and Putnam 1976, Rabun and Towns 1981
Hankins, Gary C., Jr.	Screven 2013, Clinch and Echols 2013*
Henderson, Mike	Dade and Walker 2012*, Bartow 2014*
Haygood, E. S.	Tift 1959
Higgins, Steve K.	Muscogee 1983
Hodge, Mark S.	Muscogee 1983
Howard, Joan B	Murray and Whitfield 2007
Hutchins, Harry	Richmond 1981
Iseley, Erwin E.	Treutlen 1964, Montgomery, Toombs, and Wheeler 1973, Appling and Jeff Davis 1975, Emanuel 1999
Jensen, E. R.	Tift 1959
Johnson, Daniel	Fulton 2008
Johnson, John H.	Walton 1964, Pierce 1968, Bryan and Chatham 1964, Camden and Glynn 1980, Muscogee 1983, Chattahoochee and Marion 1997, Brantley and Charlton 2013*
Johnson, Nathan	Ware 2008*, Brantley and Charlton 2013*, Clinch and Echols 2013*
Johnston, Richard A.	Dooly and Macon 1983, Johnson and Laurens 1991
Jones, Jon D.	Burke 1986, Glascock and Jefferson 1994, Emanuel 1999
Jones, Sidney M.	Habersham 1963, Gwinnett 1967, Clayton, Fayette, and Henry 1979, Walton 1964
Jordan, Dan H.	Hart 1963, Cherokee, Gilmer, and Pickens 1973, Catoosa 1993
Joslyn, Gichard S.	Lincoln and Wilkes 2006
Kickligher, Harold D.	Washington and Wilkinson 1985
Knight, J. P.	Forsyth 1960
Kring, Timothy D.	Emanuel 1999, Bleckley, Dodge, and Telfair 2003

Soil Scientist	Soil Surveys from 1958-2014
Lagoueyte, Charles A.	Ware 2008*, Brantley and Charlton 2013*, Clinch and Echols 2013*
Langlinais, Jerome L.	Chattahoochee and Marrion 1997, Grady 2005, Decatur 2007
Lathem, James R.	Johnson and Laurens 1991, Gascock and Jefferson 1994, Newton and Rockdale 2000, Bleckley, Dodge, and Telfair 2003, Jasper 2004, Butts 2006, Crawford and Taylor 2009, Monroe 2009
Lawrence, K. Steve	Burke 1986, Catoosa 1993, Glascock and Jefferson 1994, Murray and Whitfield 2007
Lawrence, Carl B.	Forsyth 1960
Looper, Edward E.	Richmond 1981, Liberty and Long 1982, Washington and Wilkinson 1985, Johnson and Laurens 1991, Catoosa 1993, Bleckley, Dodge, and Telfair 2003, Murray and Whitfield 2007
Lugo, Jorge L.	Grady 2005, Decatur 2007
Lukers, T. R.	Oglethorpe 1991
Macfie, Thomas G.	Lincoln and Wilkes 2006
Marshall, Curtis G.	Fulton 2008, Paulding 2011, Dade and Walker 2012*, Harris and Talbot 2013*
Mathis, Roy	Paulding 2011
McIntyre, Carlos L.	Forsyth 1960, Dawson, Lumpkin, and White 1972, Douglas 1961, Habersham 1963 Barrow, Hall, and Jackson 1977, Elbert, Franklin, and Madison 1979, Oglethorpe 1991
Middleton, R. G.	Tift 1959, Dougherty 1968, Miller and Seminole 1976, Calhoun and Early 1985, Baker and Mitchell 1986
Monroe, Ken W.	Clay and Quitman 2006, Randolph 2007, Stewart 2010, Clinch and Echols 2013*
Monts, Daniel D.	Bulloch 1968, Jenkins 1968, Montgomery, Toombs, and Wheeler 1973, Candler, Evans, and Tattnall 1980, Burke 1986
Moore, David	Paulding 2011, Dade and Walker 2012*, Bartow 2014*
Moore, T. Scott	Pulaski and Wilcox 2003, Grady 2005, Clay and Quitman 2006, Decatur 2007, Randolph 2007, Webster 2011, Clinch and Echols 2013*
Murphy, J. O.	Houston and Peach 1967, Cherokee, Gilmer, and Pickens 1973, Clayton, Fayette, and Henry 1979, Washington and Wilkinson, 1985, Johnson and Laurens 1991, Newton and Rockdale 2000, Bleckley, Dodge, and Telfair 2003
Neal, Russell O.	Dougherty 1968, Schley and Sumter 1974, Brooks and Thomas 1979, Crisp and Turner 1981
Nicholson, Ernest G.	Banks and Stephens 1971
O'Brien, Edward L.	Murray and Whitfield 2007
Paulk, Herschel L.	Wayne 1965, Bulloch 1968, Jenkins 1968, Montgomery, Toombs, and Wheeler 1973, Candler, Evans, and Tattnall 1980, Richmond 1981, Burke 1986, Glascock and Jefferson 1994, Emanuel 1999, Effingham 2008, Screven 2013
Payne, Harley H.	Morgan 1965, Lamar, Pike, and Upson 1972, Baldwin, Jones, and Putnam 1976, Bibb 1979, Greene 2013, Hancock and Taliaferro 2013*
Pederson, Dee C.	Monroe 2009, Greene 2013, Hancock and Taliaferro 2013*

Soil Scientist	Soil Surveys from 1958-2014
Perez-Torres, Alvin	Clinch and Echols 2013*
Pilkinton, Jerry A.	Spalding 1964, Morgan 1965, Schley and Sumter 1974, Baldwin, Jones, and Putnam 1976, Lee and Terrell 1978, Calhoun and Early 1985, Pulaski and Wilcox 2003, Clay and Quitman 2006, Randolph 2007, Crawford and Taylor 2009, Stewart 2010, Webster 2011
Player, W. C.	Twiggs 1963, Washington and Wilkinson 1985
Ravenholt, H. B.	Douglas 1961
Rigdon, Thomas A.	Houston and Peach 1967, Appling and Jeff Davis 1975, Camden and Glynn 1980, Atkinson, Bacon, and coffee 1988, Bleckley, Dodge, and Telfair 2003, Crawford and Taylor 2009, Ware 2008*, Brantley and Charlton 2013*
Roberson, Dorcas	Glascok and Jefferson 1994
Robertson, Stanley M.	Forsyth 1960, Habersham 1963, Gwinnett 1967, Clarke and Oconee 1968, Barrow, Hall, and Jackson 1977
Robinson, Chester C.	Habersham 1963, Banks and Stephens 1971, Dawson, Lumpkin, and White 1972, Baldwin, Jones, and Putnam 1976
Robinson, Stanley M.	Habersham 1961, Clarke and Oconee 1968
Scott, Cathy	Bartow 2014*
Shepard, J. L.	Tift 1959
Smith, Ernest H.	Dougherty 1968, Schley and Sumter 1974, Miller and Seminole 1976, Lee and Terrell 1978, Brooks and Thomas, 1979, Crisp and Turner 1981, Dooly and Macon, 1983, Calhoun and Early 1985, Washington and Wilkinson 1985, Johnson and Laurens 1991, Emanuel 1999, Bleckley, Dodge, and Telfair 2003, Pulaski and Wilcox 2003, Stewart 2010, Screven 2013
Smith, Phil	Bartow 2014*
Sowell, Casey	Butts 2006, Effingham 2008, Screven 2013
Steele, Forrest	Forsyth 1960
Stevens, Joe G.	Ben Hill and Irwin 1969, Berrien and Lanier 1973, Colquitt and Cook, 1975, Brooks and Thomas 1979, Lowndes, 1979, Crisp and Turner 1981, Clinch and Echols 2013*
Stone, Edward M.	McIntosh 1961
Stoneman, Bruce	Fannin and Union 1996
Stoner, Howard T.	Gordon 1965, Pierce 1968, Bryan and Chatham 1974, Camden and Glynn 1980, Baker and Mitchell 1986, Atkinson, Bacon, and Coffee 1988, Worth 1980, Brantley and Charlton 2013*
Stubbs, Cleo	Clinch and Echols 2013*
Sullivan, J. L.	Treutlen 1964
Tate, Ray J.	Walton 1964, Cherokee, Gilmer, and Pickens 1973, Chattooga, Floyd, and Polk 1978, Catoosa 1993
Taylor, J. Greg	Murray and Whitfield 2007, Clinch and Echols 2013*
Thomas, C. B.	Tift 1959
Thomas, Grover J., Jr.	Walton 1964, Gwinnett 1967, Cobb 1973, Clayton, Fayette, and Henry 1979, DeKalb 1982

Soil Scientist	Soil Surveys from 1958-2014
Thomas, Mack, Jr.	Liberty and Long 1982, Muscogee 1983, Johnson and Laurens 1991, Glascock and Jefferson 1994, Chattahoochee and Marion 1997, Emanuel 1999, Newton and Rockdale 2000, Bleckley, Dodge, and Telfair 2003, Effingham 2008, Crawford and Taylor 2009, Screven 2013
Thomas, Stephon	Paulding 2011, Dade and Walker 2012*, Harris and Talbot 2013*
Treadway, Jennifer	Hancock and Taliaferro 2013*
Turcotte, David E.	Brantley and Charlton 2013*
Weatherspoon, Robert	Clinch and Echols 2013*
Weeks, Marvin E.	Fannin and Union 1996
Wells, R. D.	Douglas 1961, Meriwether 1965, Carroll and Haralson 1971, Coweta, Heard, and Troup 1980
Wells, R. F.	Fulton 1958
Wilkes, Robert L.	Treutlen 1964, Bryan and Chatham 1974, Appling and Jeff Davis 1975, Camden and Glynn 1980, Liberty and Long 1982, Bleckley, Dodge, and Telfair 2003
Wood, John C.	Twiggs, 1963, Houston and Peach, 1967, Bibb 1979, Dooly and Macon 1983
Woodruff, Johnny	Fannin and Union 1996, Murray and Whitfield 2007
Woods, Garnet J.	Berrien and Lanier 1973, Montgomery, Toombs, and Wheeler 1973, Colquitt and Cook 1975, Brooks and Thomas 1979, Crisp and Turner 1981
Wright, Alexander	Hart 1963
York, Gloria J.	Murray and Whitfield 2007
Ritchie, Frank T., Jr	Forsyth, 1960, Douglas 1961, Habersham 1963, Twiggs 1963
Wilson, Glenn V.	Forsyth 1960

* Soil Surveys published to the Web Soil Survey

Soil Scientists that Mapped Soils in Georgia, 1958-2014

NAME
Atkins, Richard O.
Ammons, Harold C.
Ammons, Tom
Anderson, Beth
Anderson, Richard A.
Ardoin, Alan
Aydelott, D. Gray
Bacon, Dan D.
Bill, Gary
Blevins, Marion M.
Bott, Wade B.
Bramlett, Glenn L.
Brock, George G.
Brooks, J. F.
Brown, Jack R.
Brown, James H.
Bullock, H. C.
Byrd, Hubert J.
Cabe, Douglas E.
Calhoun, John C.
Carlson, Sherry E.
Carson, Winfield S.
Chandler, Rex H.
Clark, Gregory H.
Coleman, Tommy L.
Crabb, T. N.
Craft, R. W.
Davis, Hugh T.
Evon, Bob
Frost, Louie W.
Gaither, Gene A.
Gay, Howard D.
George, Walter G.
Gilbert, Richard H.
Green, Alfred J.
Green, T. W.
Hankins, Gary C.
Henderson, Mike

NAME
Higgins, Steve K.
Hodges, Mark S.
Howard, Joan B.
Hutchins, Harry
Iseley, Erwin E.
Johnson, Daniel
Johnson, John H.
Johnson, Nathan
Johnston, Richard A.
Jones, Jon D.
Jones, Sidney M.
Jordan, Dan H.
Joslyn, Richard S.
Kicklighter, Harold D.
Knight, J. P.
Kring, Timothy D.
Lagoueyte, Charles
Langlinais, Jerome L.
Lathem, James R.
Lawrence, Carl B.
Lawrence, K. Steve
Looper, Edward E.
Lugo, Jorge L.
Macfie, Thomas G.
Marshall, Curtis G.
Mathis, Roy
McIntyre, C. L.
Middleton, Royce C.
Miller, J. T.
Monroe, Ken W.
Monts, Daniel D.
Moore, David
Moore, T. Scott
Murphy, James O.
Neal, Russel O.
Nicholson, Earnest G., Jr.
O'Brien, Edward L.
Paulk, Herschel L.

NAME
Payne, Harley H.
Pederson, Dee C.
Perez, Alvin
Pilkinton, Jerry A.
Player, William C.
Ravenholt, H. B.
Rigdon, Thomas A.
Roberson, Dorcas
Robertson, S. M.
Robinson, Chester C.
Scott, Cathy
Smith, Ernest H.
Smith, Philip
Sowell, Casey
Steele, Forrest
Stevens, Joe G.
Stone, Edward M.
Stoneman, Bruce
Stoner, Howard T.
Stubbs, Cleo
Sullivan, J. L.
Tate, Ray J.
Taylor, J. Greg
Thomas, Grover J., Jr.
Thomas, Mack, Jr.
Thomas, Stephon
Treadway, Jennifer
Turcotte, David E.
Ware, Charles
Weeks, Marvin E.
Wells, R. D.
Wilkes, Robert L.
Witherspoon, Robert
Wood, Garnet J.
Woodruff, Johnny
Woods, John C.
Wright, Alexander
York, Gloria

Soil Scientists and the number of Soil Surveys Worked in Georgia, 1958-2014

Soil Scientist	No.
Smith, Ernest H.	15
Carson, Winfield S.	13
Green, Alfred J.	12
Pilkinton, Jerry A.	12
Paulk, Herschel L.	11
Thomas, Mack, Jr.	11
Lathem, James R.	8
Rigdon, Thomas A.	8
Stoner, Howard T.	8
Bacon, Dan D.	7
Frost, Louie W.	7
Green, T. W.	7
Johnson, John H.	7
Looper, Edward E.	7
Moore, T. Scott	7
Murphy, James O.	7
Thomas, Grover J., Jr.	7
Blevins, Marion M.	6
Brown, Jack R.	6
Calhoun, John C.	6
Stevens, Joe G.	6
Tate, Ray J.	6
Wilkes, Robert L.	6
Aydelott, D. Gray	5
Davis, Hugh T.	5
Gaither, Gene A.	5
Monts, Daniel D.	5
Payne, Harley H.	5
Robertson, S. M.	5
Wells, R. D.	5
Wood, Garnet J.	5
Bramlett, Glenn L.	4
Brooks, J. F.	4
Crabb, T. N.	4
Iseley, Erwin E.	4
Jones, Sidney M.	4
Lawrence, K. Steve	4
Marshall, Curtis G.	4
McIntyre, C. L.	4

Soil Scientist	No.
Middleton, Royce C.	4
Monroe, Ken W.	4
Neal, Russel O.	4
Ritchie, Frank T.	4
Woods, John C.	4
Brock, George G.	3
Carlson, Sherry E.	3
Coleman, Tommy L.	3
Gay, Howard D.	3
Gilbert, Richard H.	3
Johnson, Nathan	3
Jones, Jon D.	3
Lagoueyte, Charles	3
Langlinalis, Jerome L.	3
Moore, David	3
Pederson, Dee C.	3
Robinson, Chester C.	3
Sowell, Casey	3
Thomas, Stephon	3
Ammons, Harold C.	2
Cabe, Douglas E.	2
Chandler, Rex H.	2
Clark, Gregory H.	2
Hankins, Gary C.	2
Henderson, Mike	2
Johnston, Richard A.	2
Jordan, Dan H.	2
Kring, Timothy D.	2
Lugo, Jorge L.	2
Player, William C.	2
Taylor, Greg	2
Thomas, Stephon	2
Woodruff, Johnny	2
Akins, Richard O.	1
Ammons, Tom	1
Anderson, Beth	1
Anderson, Richard A.	1
Ardoin, Alan	1
Bill, Gary	1

Soil Scientist	No.
Bott, Wade	1
Brown, James H.	1
Bullock, H. C.	1
Byrd, Hubert J.	1
Craft, R. W.	1
Evon, Bob	1
George, Walter G.	1
Higgins, Steve K.	1
Hodges, Mark S.	1
Howard, Joan B.	1
Hutchins, Harry	1
Johnson, Daniel	1
Joslyn, Richard S.	1
Kicklighter, Harold D.	1
Knight, J. P.	1
Lawrence, Carl B.	1
Macfie, Thomas G.	1
Mathis, Roy	1
Miller, J. T.	1
Nicholson, Earnest G., Jr.	1
O'Brien, Edward L.	1
Perez, Alvin	1
Ravenholt, H. B.	1
Roberson, Dorcas	1
Scott, Cathy	1
Smith, Philip	1
Steele, Forrest	1
Stone, Edward M.	1
Stoneman, Bruce	1
Stubbs, Cleo	1
Sullivan, J. L.	1
Treadway, Jennifer	1
Turcotte, David E.	1
Ware, Charles	1
Weeks, Marvin E.	1
Wilson, Glenn V	1
Witherspoon, Robert	1
Wright, Alexander	1
York, Gloria	1

Georgia Million Acre Mappers

Contributions of all people who worked on Georgia soil surveys throughout the years are valued and appreciated. There is a small group of soil scientists who mapped soils on over a million acres of land in Georgia. These soil scientists were recognized previously by NRCS and the state of Georgia, and we list them here to honor their notable achievement.

Jack R. Brown

John W. Calhoun

Louie W. Frost

Alfred J. Green

John H. Johnson

Royce G. Middleton

Herschel L. Paulk

Jerry A. Pilkinton

Thomas A. Rigdon

Ernest H. Smith

Ray J. Tate, Jr.

Grover J. Thomas, Jr.

Georgia SCS/NRCS State Office staff, Forest Service and University Liaisons

Georgia State Soil Scientists

R. R. Covell
Frank T. Ritchie, Jr.
Morris E. Shaffer
Talbert R. Gerald
Edward P. Ealy
K. Steve Lawrence

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Morris E. Shaffer	K. Steve Lawrence
Glenn L. Bramlett	Louie W. Frost
Richard Rehner	

Cartographers/GIS

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Jerry Ragus
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University of Georgia Liaisons

C. O. Collins
H. F. (Jack) Perkins
Larry T. West
William L. Miller

Georgia State Soil

The National Cooperative Soil Survey held its Centennial Celebration in 1999. As part of this event, each state was asked to select a “state soil” to represent their state. Many states have a state soil designated by the state legislature. Those that do not have an official state soil selected a representative soil for their state. The Georgia Soil Classifiers Association selected Tifton as the representative soil for Georgia. Informational materials were developed for the Centennial, and Scott Moore and others collected soil monoliths from a Tifton soil in Tift County to display on the mall in Washington at the Centennial event. The monoliths were later displayed in the Smithsonian Museum of Natural History. Ernest Smith and Tim Kring collected photos of a Tifton soil profile used in the display.

Why Tifton?

Georgia has a great diversity of soils. There are 6 Major Land Resource Areas (MLRAs) in Georgia, and each has a unique collection of soils. The largest MLRAs in Georgia are the Southern Piedmont, and the Southern Coastal Plain. Cecil is the dominant soil series in the Southern Piedmont, and Tifton is the dominant soil in the Southern Coastal Plain.

Georgia is well known for its red clay. Cecil soils are red clay soils.

Tifton soils were established in Georgia. Cecil soils were established in Maryland.

The type location for Tifton soils is in Georgia. The type location for Cecil soils is in North Carolina.

Tifton soils occur in 65 counties in Georgia. Cecil soils occur in 54.

Although there are more acres of Cecil soils than Tifton soils in Georgia, Tifton loamy sand, 2 to 5 percent slopes, is the dominant soil map unit in Georgia.

There are more Tifton soils in Georgia than in any other state.

Tifton soils were one of three soils that were the first to be established in Georgia, in 1908, in the soil survey of Grady County, Georgia, conducted by Hugh Hammond Bennett, the first Chief of the Soil Conservation Service.