GENERAL SOIL MAP OF SOUTH CAROLINA

DESCRIPTION OF CERTAIN PROPERTIES AND SUITABILITY FOR SELECTED USES AND CLASSIFICATION

DESCRIPTION OF CERTAIN PROPERTIES

Depth to bedrock indicates the depth in feet to either hard or rippable bedrock.

Depth to water table indicates the depth in feet to a seasonal high water table that is usually highest in winter and early spring.

Risk of flooding is given as none, low, medium, or high. None is for soils on uplands that do not flood. Low is for soils on wet uplands where flooding is rare. Medium is for soils on wet upland flats and depressions that occasionally flood. High is for soils on flood plains, depressions, and marshes where flooding is common.

Shrink-swell potential is rated as low, medium, or high. Low is used for sandy and loamy soils with very little or no volume change upon wetting and drying. Medium is used for clayey soils with minor amounts of plastic clays that have moderate volume change upon wetting and drying. High is used for very plastic, clayey soils with large volume changes upon wetting and drying.

Permeability is expressed as low, medium, or high. Rates of the permeability classes in inches per hour are:

Low	< 0.2 in./hr.
Medium	0.2 - 2.0 in./hr.
High	> 2.0 in./hr.

SUITABILITY FOR SELECTED USES

The suitabilities of the soils are rated as good, fair, or poor for row crops, pasture, woodland, residences, septic tank filter fields, lawns and landscaping, and picnic and campsites. Good is used for those soils that are well suited for the indicated use. They are highly productive with good management. They have few or no soil properties that are problems, and these problems can easily be overcome. Fair is used for those soils that can be used satisfactorily for the indicated use, but good management and careful planning and design are required. They are moderately productive and in most years returns exceed costs with proper management. They have some soil properties that are problems, but these problems can be overcome by practical means. Poor is used for those soils that are poorly suited or not suited for the indicated use. Production with good management is low and costs exceed returns. They have soil properties that are such serious problems that these problems can be overcome only at great cost and risk.

CLASSIFICATION OF SOILS

SOIL FAMILIES AND THEIR INCLUDED SERIES

ALFISOLS

Typic Albaqualfs
fine, mixed, thermic
Meggett

Typic Ochraqualfs
fine-loamy, mixed, thermic
Yonges
fine, mixed, thermic
Argent

Typic Hapludalfs
loamy, mixed, thermic, shallow
Wilkes
fine, mixed, thermic
Winnsboro
fine, montmorillonitic, thermic
Iredell

Ultic Hapludalfs
fine, mixed, thermic
Mecklenburg

ENTISOLS

Typic Fluvaquents
fine-loamy, mixed, nonacid, thermic
Wehadkee
fine, kaolinitic, acid, thermic
Chastain

Typic Sulfaquents
fine, mixed, nonacid, thermic
Bohicket
Capers

Typic Quartzipsamments
thermic, coated
Cainhoy
Lakeland

Aquic Quartzipsamments
thermic, coated
Chipley

Typic Udipsamments
mixed, thermic
Fripp

Aquic Udipsamments
mixed, thermic
Seabrook

INCEPTISOLS

Typic Humaquepts
sandy, siliceous, thermic
Rutlege

Cumulic Humaquepts
coarse-loamy, siliceous, acid, thermic
Johnston

Typic Dystrochrepts
coarse-loamy, mixed, mesic
Ashe

Fluvaquentic Dystrochrepts
fine-loamy, mixed, thermic
Chewacla
fine, kaolinitic, thermic
Tawcaw

MOLLISOLS

Typic Argiaquolls
fine, mixed, thermic
Santee

SPODOSOLS

Typic Haplaquods
sandy, siliceous, thermic
Lynn Haven

Aeric Haplaquods
sandy, siliceous, thermic
Leon

Entic Haplaquods
sandy, mixed, thermic
Seewee

ULTISOLS

Typic Albaquults
clayey, kaolinitic, thermic
Cantey
clayey, mixed, thermic
Bladen

Aeric Ochraquults
fine-loamy, mixed, thermic
Yemassee
clayey, mixed, thermic
Wahee

Typic Paleaquults
fine-loamy, siliceous, thermic
Rains
clayey, kaolinitic, thermic
Coxville
clayey, mixed, thermic
Bethera

Aeric Paleaquults
fine-loamy, siliceous, thermic
Lynchburg
clayey, kaolinitic, thermic
Smithboro

Typic Fragiudults
fine-loamy, siliceous, thermic
Vaucluse
clayey, kaolinitic, thermic
Cataula

Typic Hapludults
loamy, mixed, mesic, shallow
Saluda
fine-loamy, micaceous, mesic
Fannin
fine-loamy, micaceous, thermic
Grover
fine-loamy, mixed, mesic
Edneyville
fine-loamy, oxidic, mesic
Evard
clayey, kaolinitic, thermic
Appling
Cecil
Georgeville
Herndon
Madison
Pacolet
clayey, mixed, thermic
Nason
Tatum

Aquic Hapludults
clayey, mixed, thermic
Craven

Ruptic-Lithic-Entic Hapludults
loamy-skeletal, mixed, mesic
Talladega

Typic Paleudults
fine-loamy, siliceous, thermic
Norfolk
Orangeburg
clayey, kaolinitic, thermic
Faceville

Aquic Paleudults
fine-loamy, siliceous, thermic
Goldsboro
clayey, kaolinitic, thermic
Persanti

Aquic Arenic Paleudults
loamy, siliceous, thermic
Ocilla

Arenic Paleudults
loamy, siliceous, thermic
Wagram

Arenic Plinthic Paleudults
loamy, siliceous, thermic
Fuquay

Grossarenic Paleudults
loamy, siliceous, thermic
Blanton
Troup

Plinthic Paleudults
fine-loamy, siliceous, thermic
Dothan
clayey, kaolinitic, thermic
Varina

Typic Rhodudults
clayey, kaolinitic, thermic
Hiwassee

SOIL SERIES AND THEIR CLASSIFICATION

SOIL SERIES	SOIL FAMILY
Appling	clayey, kaolinitic, thermic Typic Hapludults
Argent	fine, mixed, thermic Typic Ochraqualfs
Ashe	coarse-loamy, mixed, mesic Typic Dystrochrepts
Bethera	clayey, mixed, thermic Typic Paleaquults
Bladen	clayey, mixed, thermic Typic Albaquults
Blanton	loamy, siliceous, thermic Grossarenic Paleudults
Bohicket	fine, mixed, nonacid, thermic Typic Sulfaquents
Cainhoy	thermic, coated Typic Quartzipsamments
Cantey	clayey, kaolinitic, thermic Typic Albaquults
Capers	fine, mixed, nonacid, thermic Typic Sulfaquents
Cataula	clayey, kaolinitic, thermic Typic Fragiudults
Cecil	clayey, kaolinitic, thermic Typic Hapludults
Chastain	fine, kaolinitic, acid, thermic Typic Fluvaquents
Chewacla	fine-loamy, mixed, thermic Fluvaquentic Dystrochrepts
Chipley	thermic, coated Aquic Quartzipsamments
Coxville	clayey, kaolinitic, thermic Typic Paleaquults
Craven	clayey, mixed, thermic Aquic Hapludults
Dothan	fine-loamy, siliceous, thermic Plinthic Paleudults
Edneyville	fine-loamy, mixed, mesic Typic Hapludults
Evard	fine-loamy, oxidic, mesic Typic Hapludults
Faceville	clayey, kaolinitic, thermic Typic Paleudults
Fannin	fine-loamy, micaceous, mesic Typic Hapludults
Fripp	mixed, thermic Typic Udipsamments
Fuquay	loamy, siliceous, thermic Arenic Plinthic Paleudults
Georgeville	clayey, kaolinitic, thermic Typic Hapludults
Goldsboro	fine-loamy, siliceous, thermic Aquic Paleudults
Grover	fine-loamy, micaceous, thermic Typic Hapludults
Herndon	clayey, kaolinitic, thermic Typic Hapludults
Hiwassee	clayey, kaolinitic, thermic Typic Rhodudults
Iredell	fine, montmorillonitic, thermic Typic Hapludalfs
Johnston	coarse-loamy, siliceous, acid, thermic Cumulic Humaquepts
Lakeland	thermic, coated Typic Quartzipsamments
Leon	sandy, siliceous, thermic Aeric Haplaquods
Lynchburg	fine-loamy, siliceous, thermic Aeric Paleaquults
Lynn Haven	sandy, siliceous, thermic Typic Haplaquods
Madison	clayey, kaolinitic, thermic Typic Hapludults
Mecklenburg	fine, mixed, thermic Ultic Hapludalfs
Meggett	fine, mixed, thermic Typic Albaqualfs
Nason	clayey, mixed, thermic Typic Hapludults
Norfolk	fine-loamy, siliceous, thermic Typic Paleudults
Ocilla	loamy, siliceous, thermic Aquic Arenic Paleudults
Orangeburg	fine-loamy, siliceous, thermic Typic Paleudults
Pacolet	clayey, kaolinitic, thermic Typic Hapludults
Persanti	clayey, kaolinitic, thermic Aquic Paleudults
Rains	fine-loamy, siliceous, thermic Typic Paleaquults
Rutlege	sandy, siliceous, thermic Typic Humaquepts
Saluda	loamy, mixed, mesic, shallow Typic Hapludults
Santee	fine, mixed, thermic Typic Argiaquolls
Seabrook	mixed, thermic Aquic Udipsamments
Seewee	sandy, mixed, thermic Entic Haplaquods
Smithboro	clayey, kaolinitic, thermic Aeric Paleaquults
Talladega	loamy-skeletal, mixed, mesic Ruptic-Lithic-Entic Hapludults
Tatum	clayey, mixed, thermic Typic Hapludults
Tawcaw	fine, kaolinitic, thermic Fluvaquentic Dystrochrepts
Troup	loamy, siliceous, thermic Grossarenic Paleudults
Varina	clayey, kaolinitic, thermic Plinthic Paleudults
Vaucluse	fine-loamy, siliceous, thermic Typic Fragiudults
Wagram	loamy, siliceous thermic Arenic Paleudults
Wahee	clayey, mixed, thermic Aeric Ochraquults
Wehadkee	fine-loamy, mixed, nonacid, thermic Typic Fluvaquents
Wilkes	loamy, mixed, thermic, shallow Typic Hapludalfs
Winnsboro	fine, mixed, thermic Typic Hapludalfs
Yemassee	fine-loamy, mixed, thermic Aeric Ochraquults
Yonges	fine-loamy, mixed, thermic Typic Ochraqualfs

MAP SYMBOL	SOIL ASSOCIATION	DESCRIPTION: SOIL SERIES	DEPTH TO BEDROCK (feet)	DEPTH TO WATER TABLE (feet)	RISK OF FLOODING	SHRINK-SWELL POTENTIAL	PERMEABILITY	SUITABILITY: ROW CROPS	PASTURE	WOODLAND	RESIDENCES*	SEPTIC TANK FILTER FIELDS	LAWNS AND LANDSCAPING	PICNIC AND CAMPSITES
		BLUE RIDGE MOUNTAINS												
1	Evard-Edneyville	Ashe	3	>6	None	Low	High	Poor	Poor	Fair	Fair to Poor	Poor	Fair to Poor	Fair to Poor
		Edneyville	>5	>6	None	Low	Medium	Poor	Fair to Poor	Fair	Fair to Poor	Fair to Poor	Fair to Poor	Fair to Poor
2	Fannin-Talladega	Evard	>5	>6	None	Low	Medium	Poor	Fair to Poor	Fair	Fair to Poor	Fair to Poor	Fair to Poor	Poor
		Fannin	3	>6	None	Low	Medium	Fair to Poor	Fair to Poor	Good	Fair to Poor	Poor	Fair to Poor	Fair to Poor
3	Ashe-Saluda-Edneyville	Saluda	>5	>6	None	Low	Medium	Poor	Fair to Poor	Fair	Fair to Poor	Fair to Poor	Fair to Poor	Fair to Poor
		Talladega	3	>6	None	Low	Medium	Poor	Poor	Fair	Fair to Poor	Poor	Fair to Poor	Fair to Poor
		SOUTHERN PIEDMONT												
4	Iredell-Mecklenburg	Appling	>5	>6	None	Low	Medium	Good	Fair	Fair	Good	Fair	Good to Fair	Good to Fair
		Cataula	>5	>6	None	Low	Low	Fair	Fair	Fair	Fair	Poor	Fair	Fair
5	Wilkes-Winnsboro-Mecklenburg	Cecil	>5	>6	None	Low	Medium	Good	Fair	Fair	Fair	Fair	Good to Fair	Good to Fair
		Georgeville	>5	>6	None	Low	Medium	Good	Fair	Fair	Good	Fair	Good to Fair	Good to Fair
6	Pacolet-Grover	Grover	>5	>6	None	Low	Medium	Poor	Fair to Poor	Fair	Poor	Poor	Poor	Poor
		Herndon	>5	>6	None	Low	Medium	Good	Fair	Fair	Good	Fair	Good to Fair	Good to Fair
7	Pacolet-Madison-Wilkes	Hiwassee	>5	>6	None	Low	Medium	Good	Fair	Fair	Fair	Fair	Good to Fair	Good to Fair
		Iredell	>5	1-2	None	High	Low	Fair	Fair	Poor	Poor	Poor	Fair	Poor
		Madison	>5	>6	None	Low	Medium	Good to Fair	Fair	Fair	Good to Fair	Fair	Good to Fair	Good to Fair
8	Tatum-Nason	Mecklenburg	4	>6	None	Medium	Low	Good to Poor	Fair to Poor	Fair	Fair	Poor	Good to Fair	Fair to Poor
		Nason	4	>6	None	Low	Medium	Fair to Poor	Fair	Fair	Fair to Poor	Fair to Poor	Fair to Poor	Fair to Poor
9	Madison-Cecil	Pacolet	>5	>6	None	Low	Medium	Poor	Fair to Poor	Fair	Poor	Poor	Poor	Poor
		Tatum	4	>6	None	Low	Medium	Fair to Poor	Fair	Fair	Fair to Poor	Fair to Poor	Fair to Poor	Fair to Poor
10	Cecil-Hiwassee-Cataula	Wilkes	4	>6	None	Medium	Medium	Fair to Poor	Fair	Fair	Fair to Poor	Fair to Poor	Fair to Poor	Fair to Poor
		Winnsboro	>5	>6	None	High	Low	Good to Poor	Good to Fair	Fair	Poor	Poor	Fair to Poor	Fair to Poor
11	Cecil-Appling-Cataula													
12	Georgeville-Herndon													
13	Cecil-Mecklenburg-Cataula													
		CAROLINA AND GEORGIA SANDHILLS												
14	Lakeland-Fuquay-Troup	Blanton	>10	>6	None	Low	Medium	Poor	Fair	Fair	Good	Good	Fair	Fair
		Dothan	>10	4	None	Low	Low	Good	Good	Good	Good	Fair	Fair	Good
15	Troup-Wagram-Vaucluse	Fuquay	>10	4	None	Low	Low	Fair	Fair	Fair	Good	Fair	Fair	Fair
		Lakeland	>10	>6	None	Low	High	Poor	Fair	Fair	Good	Good	Poor	Poor
		Troup	>10	>6	None	Low	Medium	Poor	Fair	Fair	Good	Good	Fair	Fair
16	Fuquay-Dothan-Blanton	Vaucluse	>10	>6	None	Low	Low	Poor	Fair	Fair	Good	Poor	Fair	Fair
		Wagram	>10	>6	None	Low	Medium	Fair	Fair	Fair	Good	Good	Fair	Fair
		SOUTHERN COASTAL PLAIN												
17	Dothan-Fuquay-Rains	Coxville	>10	<1	Medium	Low	Medium	Good	Good	Good	Poor	Poor	Poor	Poor
		Dothan	>10	4	None	Low	Low	Good	Good	Good	Good	Fair	Fair	Good
18	Norfolk-Coxville-Wagram	Faceville	>10	>6	None	Low	Medium	Good	Good	Fair	Good	Good	Good	Good
		Fuquay	>10	4	None	Low	Low	Fair	Fair	Fair	Good	Fair	Fair	Fair
		Lakeland	>10	>6	None	Low	High	Poor	Fair	Fair	Good	Good	Poor	Poor
19	Varina-Fuquay-Dothan	Norfolk	>10	5	None	Low	Medium	Good	Good	Good	Good	Fair	Fair	Good
		Orangeburg	>10	>6	None	Low	Medium	Good	Good	Good	Good	Good	Fair	Good
20	Faceville-Fuquay-Orangeburg	Rains	>10	<1	Medium	Low	Medium	Good	Good	Good	Poor	Poor	Poor	Poor
		Varina	>10	4	None	Low	Low	Good	Good	Fair	Good	Fair	Fair	Good
		Wagram	>10	>6	None	Low	Medium	Fair	Fair	Fair	Good	Good	Fair	Fair
21	Wagram-Lakeland-Norfolk													
		ATLANTIC COAST FLATWOODS												
22	Cantey-Smithboro-Persanti	Argent	>10	<1	High	Medium	Low	Good	Good	Good	Poor	Poor	Poor	Poor
		Beach	>10	2	High	Low	High	Poor	Poor	Poor	Poor	Poor	Poor	Poor
23	Goldsboro-Rains-Norfolk	Bethera	>10	<1	High	Medium	Low	Good	Good	Good	Poor	Poor	Poor	Poor
		Bladen	>10	<1	High	Medium	Low	Good	Good	Fair	Poor	Poor	Poor	Poor
		Bohicket	>10	0	High	High	Low	Poor	Poor	Poor	Poor	Poor	Poor	Poor
24	Goldsboro-Chipley	Cainhoy	>10	>6	None	Low	High	Poor	Fair	Fair	Good	Good	Fair	Fair
		Cantey	>10	<1	High	Medium	Low	Good	Good	Good	Poor	Poor	Poor	Poor
25	Lynchburg-Goldsboro-Rains	Capers	>10	0	High	High	Low	Poor	Poor	Poor	Poor	Poor	Poor	Poor
		Chastain	>10	<1	High	Medium	Low	Fair	Fair	Good	Poor	Poor	Poor	Poor
26	Argent-Bladen	Chewacla	>10	<1	High	Low	Medium	Good	Good	Good	Poor	Poor	Poor	Poor
		Chipley	>10	3	None	Low	High	Poor	Fair	Good	Fair	Poor	Poor	Poor
27	Craven-Bladen	Craven	>10	2	None	Medium	Low	Good	Good	Fair	Fair	Poor	Fair	Fair
		Fripp	>10	>6	Low	Low	High	Poor	Poor	Poor	Poor	Fair	Poor	Poor
28	Yemassee-Wahee Bladen	Goldsboro	>10	3	None	Low	Medium	Good	Good	Good	Good	Poor	Fair	Good
		Johnston	>10	<1	High	Low	High	Good	Fair	Good	Poor	Poor	Poor	Poor
		Leon	>10	<1	Medium	Low	Medium	Poor	Fair	Poor	Poor	Poor	Poor	Poor
29	Meggett-Santee	Lynchburg	>10	1	Low	Low	Medium	Good	Good	Good	Poor	Poor	Poor	Poor
		Lynn Haven	>10	<1	Medium	Low	Medium	Fair	Fair	Fair	Poor	Poor	Poor	Poor
30	Wahee-Bethera	Meggett	>10	<1	High	High	Low	Good	Good	Good	Poor	Poor	Poor	Poor
		Norfolk	>10	5	None	Low	Medium	Good	Good	Good	Good	Fair	Fair	Good
31	Seabrook-Yonges-Seewee	Ocilla	>10	1	Low	Low	Medium	Fair	Good	Fair	Poor	Poor	Poor	Fair
		Persanti	>10	3	None	Medium	Low	Good	Good	Good	Fair	Poor	Good	Good
32	Lynn Haven-Leon-Rutlege	Rains	>10	<1	Medium	Low	Medium	Good	Good	Good	Poor	Poor	Poor	Poor
		Rutlege	>10	<1	High	Low	High	Good	Poor	Good	Poor	Poor	Poor	Poor
		Santee	>10	<1	High	High	Low	Good	Good	Good	Poor	Poor	Poor	Poor
33	Chipley-Cainhoy-Ocilla	Seabrook	>10	3	None	Low	High	Fair	Good	Good	Fair	Poor	Fair	Fair
		Seewee	>10	1	Low	Low	Medium	Fair	Good	Good	Poor	Poor	Poor	Poor
34	Wehadkee-Chewacla	Smithboro	>10	1	Low	Medium	Low	Good	Good	Good	Poor	Poor	Poor	Poor
		Tawcaw	>10	2	High	Medium	Low	Good	Good	Good	Poor	Poor	Poor	Poor
35	Johnston-Rutlege	Wahee	>10	1	Low	Medium	Low	Good	Good	Good	Poor	Poor	Poor	Poor
		Wehadkee	>10	<1	High	Low	Medium	Good	Good	Good	Poor	Poor	Poor	Poor
36	Tawcaw-Chastain	Yemassee	>10	1	Low	Low	Medium	Good	Good	Good	Poor	Poor	Poor	Poor
		Yonges	>10	<1	High	Low	Medium	Good	Good	Good	Poor	Poor	Poor	Poor
37	Capers-Bohicket													
38	Fripp-Beach													

*Suitability ratings are for dwellings with basements in the BLUE RIDGE MOUNTAINS and SOUTHERN PIEDMONT and for dwellings without basements in the CAROLINA and GEORGIA SANDHILLS, SOUTHERN COASTAL PLAIN, and ATLANTIC COAST FLATWOODS.

BACK SEPTEMBER 1978 4-R-36618