Summary Table: Characteristics of the Ecoregions of Alabama and Georgia

Level IV Ecoregion

Dolomite Valleys and

Low Rolling Hills

67g. Southern Shale

67h. Southern Sandstone

67i. Southern Dissected

Ridges and Knobs

Level IV Ecoregion

68b. Sequatchie Valley

68c. Plateau Escarpment

68d. Southern Table

68f. Shale Hills

Level IV Ecoregion

71f. Western Highland

71g. Eastern Highland

71h. Outer Nashville

71j. Little Mountain

Level IV Ecoregion

75a. Gulf Coast

75e. Okefenokee

75f. Sea Island

Flatwoods

75h. Bacon Terraces

Floodplains and

Low Terraces

Coastal Marsh

Islands and Coastal

75j. Sea Islands /

75k. Gulf Barrier

Flatwoods

RIDGE AND VALLEY

some steep ridges; caves and springs; moderate to

low gradient streams with bedrock, cobble, gravel,

hills and knobs; moderate to low gradient streams

with bedrock, cobble, gravel, and sandy substrates.

2060 Undulating to rolling valleys, some low, rounded

High, steep ridges, some broader ridges to the

south, some narrow intervening valleys; high to

moderate gradient streams with mostly rocky

Dissected ridges, hills, and knobs, lower and

gradient streams with rock, cobble, and gravel

04 Undulating and rolling tableland, weakly

bedrock and boulder substrates.

bedrock and bouldery substrates.

and several springs.

68e. Dissected Plateau | 1407 | Rugged, hilly, moderately to strongly dissected

and boulder substrates.

cobble, and gravel substrates.

dissected; low to moderate gradient streams with

Undulating to hilly 4 mile wide linear valley, some

nearly level floodplains and low terraces; small

alluvial fans; moderate to low gradient streams

Long, steep mountainsides, some nearly vertical

cliffs near top of escarpment; ravines and gorges;

high velocity, high gradient streams, waterfalls;

Undulating and rolling tablelands, weakly to

moderately dissected; low to moderate gradient

moderate to high gradient streams with bedrock

2188 | Moderately dissected plateau and open to rugged

INTERIOR PLATEAU

Moderately dissected irregular plains and open hills, gently rolling to moderately steep; low to

moderate gradient streams with gravel, sand, and

Weakly dissected plateau and irregular plains,

bedrock-bottomed streams; springs.

gravel-bottomed streams.

bottomed streams.

nearly level to gently rolling; some sinkholes and

Dissected escarpment; open hills, gently rolling to

18 Dissected homoclinal ridge; open hills, gently

Flat to gently undulating plain; low gradient

streams with sandy and silty substrates.

2285 | Flat plains on lightly dissected marine terraces;

3934 | Flat plains on lightly dissected marine terraces;

1842 | Flat plains on dissected marine terraces; low

Major river floodplains and associated low

substrates, oxbow lakes, ponds, swamps.

gradient streams with sandy and silty substrates.

terraces; low gradient streams with sandy and silty

95 Barrier islands, dunes, beaches, lagoons, estuaries,

Mobile River delta, tidal marshes, bays, lagoons,

barrier islands, dunes, beaches.

75g. Okefenokee Swamp | 695 | Flat plain with swamps, islands, and lakes.

tidal marshes.

swamps and bays, low gradient streams with sandy

swamps, low gradient streams with sandy and silty

rolling to moderately steep; some irregular plains:

SOUTHERN COASTAL PLAIN

Physiography

low to moderate gradient bedrock- and gravel-

moderately steep; nearly level alluvial plain along

Elk River; mostly moderate gradient bedrock- and

depressions; low to moderate gradient gravel- and

hills; moderate gradient streams with bedrock,

streams with bedrock and boulder substrates.

with bedrock, cobble, gravel and sandy substrates

more dissected than 67h; small, moderate to high

SOUTHWESTERN APPALACHIANS

Physiography

67f. Southern Limestone / 4005 Undulating to rolling valleys with rounded hills,

Physiography

Local Relief

100-500

400-1100

Local Relief

500-1200

100-200

100-300

100-300

Local Relief

5-30

5-75

5-25

5-15

Geology

Surficial material and bedrock

Quaternary to Tertiary cherty clay and

Quaternary to Tertiary clay, clay loam,

sandy clay, and sand solution residuum,

andy loam to clay loam decomposition

esiduum; Cambrian to Mississippian

Quaternary to Tertiary sandy and silty

Pennsylvanian sandstone, shale,

esiduum, clay, silty clay, or sandy

Ordovician and Silurian shale, siltstone, sandstone, slate, quartzose limestone;

Surficial material and bedrock

composition residuum; Pennsylvanian

uum and plastic clay solution

Ordovician cherty limestone and shale.

with colluvial chert, colluvium with

ecomposition residuum; Pennsylvanian

residuum; Pennsylvanian shale, siltstone,

Surficial material and bedrock

chert fragments; Mississippian cherty

limestone, some siltstone and shale; some

Quaternary clay solution residuum

with chert fragments, clay, clay loam,

uaternary cherty silty clay, locally

ssissippian chert and cherty limestone

on higher hills and knobs; some Devonian

sand solution residuum; Mississippian

quartzose sandstone and shale, some

Surficial material and bedrock

Quaternary quartz sand, shell fragments,

Pleistocene and Pliocene sand and gravel. | Spodosols (Alaquods,

Pleistocene and Pliocene marine sand, silt, Ultisols (Paleaquults,

Pleistocene and Pliocene sand and gravel, Ultisols (Paleudults,

Quaternary quartz sand, silt, clay, muck, Alfisols (Albaqualfs),

and, peat, and clay; Holocene beach and Spodosols (Alorthods,

fine sand, and silt; Pleistocene sand and Haplohemists), Spodosols

some Miocene sand, clay, and gravel near | Kandiudults, Paleaquults),

Holocene swamp deposits of muck, peat, Histosols (Haplosaprists,

silt, clay, muck, peat, some Pliocene

peat, some Pliocene gravel.

shore marine sand.

silt, clay, muck, peat.

Holocene saline marsh deposits of silt,

dune sand; Pleistocene beach and near-

Quaternary quartz sand, shell fragments,

sandy clay, and sand solution residuum; (Hapludalfs, Epiaqualfs),

Mississippian limestone, chert, shale, and | Inceptisols (Dystrudepts)

osphatic, solution residuum; Ordovician | Fragiudults); Inceptisols

Quaternary sandy clay decomposition Ultisols (Fragiudults,

residuum, clay, clay loam, sandy clay, and Hapludults, Paleudults)

Devonian (Chattanooga) shale.

limestone and shaly limestone:

Chattanooga) shale.

limestone.

huge blocks; Mississippian limestone,

quartzose sandstone, conglomerate,

sandstone, shale; Pennsylvanian

sandstone, siltstone, shale, and

Quaternary to Tertiary sandy

siltstone, shale, and coal.

500-1090 | Quaternary sandy decomposition

sandstone, shale, siltstone, and coal.

300-790 Quaternary sandy decomposition

sandstone, and coal.

iduum with colluvial chert; Ordovician

nestone and dolomite, Mississippian and

Quaternary plastic clay solution residuum | Ultisols (Paleudults,

quartzose sandstone, conglomerate,

Quaternary to Tertiary sandy

decomposition residuum: Cambrian.

tstone, and conglomerate.

some Mississippian chert.

y decomposition residuum; Cambrian Hapludults); Inceptisols

Quaternary to Tertiary cherty clay solution | Ultisols (Hapludults,

shale, sandstone, dolomite, limestone, and

cherty silty clay solution residuum;

Ordovician cherty dolomite and

Order (Great Groups)

Ultisols (Hapludults. Paleudults); Alfisols

Oystrudepts)

(Dystrudepts)

Paleudults); Inceptisols

Order (Great Groups)

uaternary to Tertiary cherty clay solution | Ultisols (Paleudults); Inceptisols | Minvale, Bodine, Fullerton,

Hapludults); Inceptisols

(Dystrudepts)

Ultisols (Hapludults

(Dystrudepts)

ragiudults); Inceptisols

Ultisols (Hapludults);

Inceptisols (Dystrudepts);

Entisols (Udorthents) on

reclaimed coal mine areas

Order (Great Groups)

Quaternary clay solution residuum with Ultisols (Paleudults, Fragiudults, Dickson, Fullerton, Bodine,

(Dystrudepts)

Fragiudults); Alfisols

Order (Great Groups)

Ultisols (Paleaquults,

Paleudults), Histosols

(Alaquods), Entisols vdraquents)

Alorthods), Ultisols

Paleaquults, Paleudults)

(Endoaqualfs), Spodosols

Alaquods, Alorthods)

(Alaquods, Alorthods)

(Quartzipsamments)

Inceptisols (Endoaquepts,

Oystrudepts), Histosols aplosaprists), Entisols Udifluvents, Hydraquents

nceptisols (Humaquepts)

Sulfaquents, Psammaquents,

sammaquents, Hydraquents,

Quartzipsamments), Histosols

Alaquods), Entisols

Entisols (Sulfaquents,

(Haplosaprists)

(Haplosaprists), Spodosols

Iapludalfs); Inceptisols

Iltisols (Paleudults); Inceptisols | Fullerton, Shack, Bodine,

Level IV Ecoregion		Physiography	Geology			Climate				Potential Natural Vegetation	Land Use and Land Cover	
	Area (square miles)		Elevation / Local Relief (feet)	Surficial material and bedrock	Order (Great Groups)	Common Soil Series	Temperature / Moisture Regimes	Precipitation Mean annual (inches)	Frost Free Mean annual (days)	Mean Temperature January min/max; July min/max, (°F)		
45a. Southern Inner Piedmont	6540	Dissected irregular plains, tablelands of moderate relief, open hills; low to moderate gradient streams with mostly cobble, gravel, and sandy substrates.	350-2900 / 200-400	Quaternary to Tertiary micaceous clay, sandy clay, and sandy saprolite, with rock outcrops and joint-block boulders; Precambrian to Paleozoic schist, gneiss, granite, amphibolite, and phyllite.	Ultisols (Kanhapludults, Hapludults); on floodplains Inceptisols (Dystrudepts) and Entisols (Udifluvents, Fluvaquents)	Madison, Louisa, Tatum, Badin, Tallapoosa, Cecil, Grover, Davidson, Pacolet; on floodplains Chewacla, Cartecay, Toccoa, Enoree	Thermic / Udic	52-60	185-220	30/52; 67/90	Oak-hickory-pine forest.	Deciduous forest, mixed forest, pine plantations, pasture; hay, cattle, and poultry production.
45b. Southern Outer Piedmont	13585	Dissected irregular plains; low to moderate gradient streams with mostly cobble, gravel, and sandy substrates.	190-1683 / 100-300	Quaternary to Tertiary argillaceous saprolite, quartz-rich saprolite, micaceous saprolite; Precambrian to Paleozoic schist, gneiss, granite, and amphibolite.	Ultisols (Kanhapludults, Hapludults); on floodplains Inceptisols (Dystrudepts) and Entisols (Udifluvents, Fluvaquents)	Cecil, Madison, Pacolet, Lloyd, Appling, Davidson, Wilkes, Gwinnett, Ashlar; on floodplains Chewacla, Toccoa, Enoree, Cartecay	Thermic / Udic	46-56	190-230	31/54; 67/90	Oak-hickory-pine forest.	Pine plantations, deciduous forest, mixed forest, pasture; hay, cattle, dairy hog, and orchard production.
45c. Carolina Slate Belt	592	Dissected irregular plains; low to moderate gradient streams with mostly cobble, gravel, and sandy substrates.	330-620 / 100-200	Quaternary to Tertiary silty to clayey saprolite, some micaceous saprolite; late Precambrian to Cambrian metavolcanics, meta-argillite, sericite, phyllite, and metadacite.	Ultisols (Kanhapludults)	Georgeville, Herndon	Thermic / Udic	47-49	190-215	30/53; 67/90	Oak-hickory-pine forest.	Pine plantations, mixed forest, pasture
45d. Talladega Upland	979	Open high hills, some northeast-trending linear ridges, rolling plateau; moderate to high gradient streams with bedrock, boulder, cobble, gravel, and sand substrates.	500-2407 / 250-1000	Quaternary to Tertiary micaceous saprolite and silty, clayey, or sandy saprolite; Precambrian to Paleozoic phyllite, quartzite, slate, metasiltstone, and metaconglomerate.	Ultisols (Hapludults)	Tatum, Tallapoosa, Badin, Fruithurst, Madison, Grover, Cheaha	Thermic / Udic	54-64	185-210	28/51; 65/89	Oak-hickory-pine forest.	Mixed forest, pine plantations, deciduous forest; in AL large areas of public land (Talladega National Forest recreation, forestry.
45h. Pine Mountain Ridges	306	Open hills and linear ridges, some irregular plains; moderate to high gradient streams with bedrock, boulder, cobble, gravel, and sand substrates.	590-1395 / 200-500	Quaternary to Tertiary quartz rich saprolite and micaceous saprolite; Precambrian to Paleozoic quartzite, schist, gneiss, granite.	Ultisols (Kanhapludults, Hapludults)	Mountainburg, Cecil, Pacolet, Madison	Thermic / Udic	50-54	205-215	32/55; 68/90	Oak-hickory-pine forest.	Deciduous forest, pine plantations, mixed forest, pasture.

Level IV Ecoregion		Physiography		Geology	Soil			Climate			Potential Natural Vegetation	Land Use and Land Cover
	Area (square miles)		Elevation / Local Relief (feet)	Surficial material and bedrock	Order (Great Groups)	Common Soil Series	Temperature / Moisture Regimes	Precipitation Mean annual (inches)	Frost Free Mean annual (days)	Mean Temperature January min/max; July min/max, (°F)		
65a. Blackland Prairie	2102	Undulating irregular plains, nearly level to strongly sloping; low gradient streams with chalk, clay, sand, and silt substrates.	120-360 / 50-100	Quaternary to Tertiary dark gray to reddish clay solution residuum over Cretaceous-age chalk, marl, and calcareous clay.	Vertisols (Dystruderts, Hapluderts, Epiaquerts), Inceptisols (Eutrudepts), Alfisols (Paleudalfs), Entisols (Udorthents)	Sumter, Vaiden, Oktibbeha, Kipling, Demopolis, Sucarnoochee, Houston, Hannon, Okolona	Thermic / Udic, some Aquic	52-56	220-240	34/56; 69/91	Blackbelt forest of sweetgum, hackberry, oak, cedar; patches of bluestem prairie.	Pasture and cropland with hay, soybeans, corn, cotton, and pond-raise catfish production; small patches of mixed hardwoods, cedar, and pine.
65b. Flatwoods / Blackland Prairie Margins	1952	Smooth lowland plains and undulating irregular plains; sluggish, low gradient, clay and sand bottomed streams.	100-520 / 50-150	Quaternary to Tertiary massive clay decomposition residuum, silty, medium to fine sand and sandy clay decomposition residuum; Tertiary massive, plastic clay, calcareous clayey sand, Cretaceous micaceous fine sand, chalk, and marl.	Vertisols (Dystruderts, Dystraquerts, Epiaquerts), Inceptisols (Eutrudepts), Alfisols (Paleudalfs), Ultisols (Hapludults)	Wilcox, Mayhew, Vaiden, Sumter, Kipling, Consul, Sucarnoochee, Oktibbeha, Conecuh	Thermic / Udic, some Aquic	52-56	220-240	34/56; 69/91	Oak-hickory-pine forest.	Mixed forest, pine plantations, pasture hay, and some cropland.
65c. Sand Hills	2887	Dissected irregular plains, some open low hills; low to moderate gradient sandy bottomed streams.	100-780 / 100-300	Quaternary medium to coarse sand decomposition residuum, loamy sand, sandy loam, and sandy clay decomposition residuum; Cretaceous and some Eocene sands and clays.	Entisols (Quartzipsamments), Ultisols (Kandiudults, Kanhapludults)	Lakeland, Lucy, Fuquay, Troup, Orangeburg, Vaucluse, Dothan, Ailey, Cowarts	Thermic / Udic	46-50	220-240	34/56; 69/91	Oak-hickory-pine; longleaf pine-turkey oak on excessively drained soils.	Mostly pine plantations, mixed forest, some pasture and cropland.
65d. Southern Hilly Gulf Coastal Plain	8548	Dissected irregular plains, northward facing cuestas, low hills with broad tops; some wide floodplains and broad, level to undulating terraces; low to moderate gradient mostly sandy bottomed streams.	70-700 / 100-300	Quaternary fine to coarse sand, sandy clay, and ferruginous clayey coarse sand decomposition residuum; Tertiary sand, clay, silt, limestone, and lignite; Cretaceous sand, clay, lignite.	Ultisols (Hapludults, Kandiudults, Paleudults, Fragiudults, Kanhapludults); on floodplains Entisols (Fluvaquents, Udifluvents) and Inceptisols (Endoaquepts)	Lucy, Bonifay, Dothan, Fuquay, Ailey, Nankin, Esto, Orangeburg, Springhill, Troup, Norfolk, and Wagram in the east; Bama, Luverne, Smithdale, Savannah, Conecuh, and Lucedale in the east; Iuka, Bibb, Kinston, Mantachie on floodplains.	Thermic / Udic, some Aquic	48-59	220-245	35/58; 69/91	Oak-hickory-pine forest, southern mixed forest, some southern floodplain forest.	Mostly mixed forest and pine plantations, some small intermixed are of pasture and fields of hay, cotton, peanuts, corn, and soybeans; some poultry.
65f. Southern Pine Plains and Hills	5994	Southward-sloping, dissected irregular plains, some open low hills, mostly broad gently sloping ridgetops with steeper side slopes near drainages; low to moderate gradient sand and clay bottomed streams; some sinkholes in eastern area.	40-520 / 100-250	Quaternary sandy clay decomposition residuum, calcareous sandy clay solution residuum, clayey sand solution residuum with chert blocks, alluvial gravel and sand; Tertiary (Miocene) fine to coarse sand, gravelly sand, and clay, with some limestone to east.	Ultisols (Paleudults, Kandiudults, Hapludults, Paleaquults); on floodplains Entisols (Fluvaquents, Udifluvents) and Inceptisols (Endoaquepts)	Troup, Heidel, Smithdale, Bonifay, Dothan, Orangeburg, Wadley, Smithton, Bama, Saffell, Malbis; on floodplains Bibb, Iuka, Mantachie.	Thermic / Udic, some Aquic	58-68	230-270	36/59; 70/92	Southern mixed forest, oak-hickory-pine forest, some southern floodplain forest.	Mixed forest, pine plantations, some agriculture on flatter uplands with soybeans, wheat, peanuts, cotton, corn pecans, sweet potatoes, and tomatoes.
65g. Dougherty Plain	6113	Irregular plains, some flat plains, lightly dissected; mostly low gradient with some moderate gradient sandy bottomed streams.	80-490 / 80-200	Quaternary and Tertiary clayey sand solution residuum with chert blocks; Tertiary (Eocene and Oligocene) limestone.	Ultisols (Kandiudults, Kanhapludults, Paleudults), Entisols (Quartzipsamments)	Orangeburg, Tifton, Dothan, Norfolk, Wagram, Troup, Lucy, Bonneau, Blanton, Red Bay, Alaga, Fuquay, Bonifay	Thermic / Udic	48-58	235-255	37/60; 70/92	Southern mixed forest.	Cropland and pasture with corn, peanuts, cotton, pecans, soybeans, sorghum, poultry; some mixed forest mostly near streams, some pine plantations.
65h. Tifton Upland	3882	Dissected irregular plains, broad interstream divides and mostly gently sloping side slopes; low to moderate gradient sandy bottomed streams.	85-460 / 100-200	Quaternary sand and clay decomposition residuum; Miocene and some Pliocene sand, clay, and gravel.	Ultisols (Kandiudults, Paleaquults)	Tifton, Dothan, Norfolk, Alapaha, Pelham	Thermic / Udic	47-56	240-260	37/60; 70/92	Southern mixed forest.	Cropland and pasture with corn, cotton, peanuts, hogs, cabbage, melons tobacco.
65i. Fall Line Hills	6559	Dissected open hills with rounded tops; gently sloping to strongly sloping side-slopes; low to moderate gradient streams with sandy and gravelly substrates.	200-1000 / 200-400	Quaternary medium to coarse sand and gravel decomposition residuum; Cretaceous quartz sand, gravelly sand, micaceous clay.	Ultisols (Hapludults, Fragiudults, Kanhapludults, Kandiudults), Entisols (Fluvaquents, Udifluvents), Inceptisols (Endoaquepts)	Cowarts, Uchee, Marvyn, Orangeburg, Springhill, Lucy, and Nankin in the east; Smithdale, Luverne, Savannah, Bama, Maubila, and Saffell in the west; Bibb, Kinston, Iuka, Mantachie on floodplains.	Thermic / Udic, some Aquic	53-59	210-240	30/51; 68/91	Oak-hickory-pine forest.	Mixed forest and pine plantations, wit areas of pasture and hay; minor areas cultivated cropland of corn, soybeans, and cotton.
65j. Transition Hills	678	Dissected open hills, broad to rounded tops and steep side slopes; low to moderate gradient streams with sandy and gravelly substrates.	420-980 / 200-400	Quaternary gravel and sand decomposition residuum, chert-fragment solution residuum, clayey to sandy solution residuum; Cretaceous fine grained sand, chert gravel in silt and sand.	Ultisols (Hapludults, Fragiudults, Paleudults), Entisols (Fluvaquents, Udifluvents)	Saffell, Smithdale, Luverne, Savannah, small areas of Dickson and Bodine, some rock outcrops; Bibb, Iuka, and Nugent on floodplains.	Thermic / Udic	56	205	28/47; 67/89	Oak-hickory-pine forest.	Mostly mixed forest with some pine plantations, some cropland and pasture in narrow valley bottoms and on gently sloping uplands.
65k. Coastal Plain Red Uplands	3234	Dissected irregular plains, mostly broad, gently sloping ridges and interstream divides, some more dissected with steeper slopes; low to moderate gradient sandy bottomed streams.	180-580 / 100-300	Quaternary loamy sand, sandy loam, and sandy clay decomposition residuum, some clayey sand solution residuum; Paleocene, Eocene, and Oligocene sand, clay, and limestone.	Ultisols (Kandiudults)	Orangeburg, Faceville, Lucy, Greenville, Dothan, Tifton, Red Bay	Thermic / Udic	46-52	230-245	34/57; 69/91	Southern mixed forest, oak-hickory-pine forest.	Cropland and pasture with peanuts, soybeans, wheat, cotton, corn, rye; sor mixed forest on more steeply sloping land.
651. Atlantic Southern Loam Plains	8626	Dissected irregular plains, some smooth plains; broad interstream divides and mostly gentle side slopes dissected by numerous small, low to moderate gradient sandy bottomed streams.	80-525 / 100-200	Quaternary sand and clay decomposition residuum; Miocene sand, clay, and gravel.	Ultisols (Kandiudults, Kanhapludults, Paleaquults, Paleudults)	Tifton, Fuquay, Cowarts, Pelham, Dothan, Grady, Nankin, Bonifay, Blanton, Troup	Thermic / Udic	44-48	230-250	35/58; 70/92	Southern mixed forest.	Cropland and pasture with corn, soybeans, onions, rye, wheat, tobacco, and hogs; pine plantations and mixed forest.
650. Tallahassee Hills / Valdosta Limesink	541	Dissected irregular plains, more hilly to the west, more sinkholes and ponds to the east; low to moderate gradient sandy bottomed streams.	85-295 / 100-200	Quaternary sand and clay decomposition residuum; Miocene sand, clay, gravel, and limestone.	Ultisols (Kandiudults, Paleudults)	Orangeburg, Faceville, Lucy, and Red Bay in the west; Tifton, Fuquay, Dothan, Valdosta, and Troup in the east.	Thermic / Udic	53-56	250-260	38/62; 70/92	Southern mixed forest.	Mixed forest, pasture, and cropland of corn, peanuts, cotton, and tobacco.
55p. Southeastern Floodplains and Low Terraces	3050	Major river floodplains and associated low terraces; low gradient streams with sandy and silty substrates, oxbow lakes, ponds, swamps.	10-330 / 5-50	Quaternary alluvial gravelly sand, quartz gravel and sand, silts, and clays.	Inceptisols (Epiaquepts, Dystrudepts, Endoaquepts), Ultisols (Hapludults, Paleudults)	Urbo, Una, Cahaba, Mooreville, Izagora, Riverview, Kolomoki, Chrysler, and Annemaine in AL; Chewacla, Chastain, Riverview, and Tawcaw in GA.	Thermic / Aquic	45-64	225-270	68/91	Southern floodplain forest.	Deciduous forest, forested wetlands, pine plantations on floodplains; cropla and pine plantations on terraces.
65q. Buhrstone/Lime Hills	1534	Rolling to strongly dissected open hills and open low hills, cuestas with a north-facing steep slope; moderate or higher gradient streams with sand, gravel, cobble, and bedrock substrates.	65-550 / 200-400	Quaternary siliceous clay decomposition residuum, limonitic sandy decomposition residuum; Tertiary (Eocene-Oligocene) claystone, siltstone, clay, sandy clay, sandstone, limestone, and marl.	Ultisols (Hapludults), Entisols (Udorthents), Alfisols (Hapludalfs), Inceptisols (Eutrudepts), Vertisols (Hapluderts)	Arundel, Cantuche, Brantley, Okeelala, Smithdale, Lauderdale, Sumter, Maytag	Thermic / Udic	58-62	220-235	35/58; 69/92	Oak-hickory-pine forest, southern mixed forest.	Mixed forest and pine plantations.

Level IV Ecoregion	Physiography		Geology	Soil			Climate			Potential Natural Vegetation	Land Use and Land Cover
	Area (square miles)	Elevation / Local Relief (feet)	Surficial material and bedrock	Order (Great Groups)	Common Soil Series	Temperature / Moisture Regimes	Precipitation Mean annual (inches)		Mean Temperature January min/max; July min/max, (°F)		
66d. Southern Crystalline Ridges and Mountains	Low to high mountains, gently rounded to steep slopes, narrow valleys. High gradient, bedrock and boulder-bottomed, cool, clear streams.	800-4784 / 1500-3000	Quaternary to Tertiary bouldery colluvium, micaceous saprolite, clay and sandy clay saprolite; Precambrian gneiss, schist, quartzite, metagraywacke, and amphibolite.	Inceptisols (Dystrudepts); Ultisols (Hapludults)	Chestnut, Porters, Saunook, Ashe, Evard, Talladega, Saluda, Cowee, Edneyville, Edneytown	Mesic / Udic	68-88	160-195	26/48; 62/85	hickory, pine, tulip poplar, birch, maple); mixed mesophytic (buckeye, basswood,	Forested; large areas of public land (Chattahoochee National Forest); tourism, recreation, hunting, forest products.
66g. Southern Metasedimentary Mountains	Low to high mountains, gently rounded to steep slopes, narrow valleys. High gradient, bedrock and boulder-bottomed, cool, clear streams.	800-4100 / 1200-2800	Quaternary to Tertiary bouldery colluvium, some micaceous saprolite and clay and sandy clay saprolite; Precambrian metasandstone, metagraywacke, quartzite, metaconglomerate, metasiltstone, phyllite, slate, schist and gneiss.	Inceptisols (Dystrudepts); Ultisols (Hapludults)	Ashe, Saluda, Talladega, Edneyville, Tusquitee, Junaluska, Cataska	Mesic / Udic	58-76	170-205	27/48; 65/86	hickory, pine, tulip poplar, birch, maple); mixed mesophytic (buckeye, basswood, tulip poplar, beech).	Forested; large areas of public land (Chattahoochee National Forest); tourism, recreation, hunting, rural residential, some small clearings for pasture or orchards on less steep land
66j. Broad Basins	Intermountainous area of open low mountains, rolling foothills, and moderately broad mountain valleys. Moderate gradient streams with cobble and boulders.	1600-2600 / 300-600	Quaternary to Tertiary quartz-rich saprolite, silty clay to sandy clay saprolite, micaceous saprolite; Precambrian schist, gneiss, phyllite, and metasandstone.	Ultisols (Hapludults, Kanhapludults); Inceptisols (Dystrudepts)	Evard, Clifton, Cowee, Hayesville, Bradson, Junaluska, Cataska	Mesic / Udic	56-63	160-190	24/47; 62/85	Appalachian oak forest (mixed oaks, hickory, pine, tulip poplar, birch, maple); mixed mesophytic (buckeye, basswood, tulip poplar, beech).	Mostly forested, also pasture and som row crops.

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Potential Natural Vegetation

52-60 180-225 27-30/48-52; Mixed oak forest, oak-hickory-pine forest. Mixed and deciduous forest.

Mixed oak forest on uplands; mixed

Mixed mesophytic forest (oak, elm,

sweetgum, basswood, beech).

nickory, ash, maple, blackgum, pine,

Mixed oak forests on upper slopes; mixed

mesophytic forest (oak, elm, hickory,

ash, maple, blackgum, pine, sweetgum,

forest (oak, elm, hickory, ash, maple,

Potential Natural Vegetation

to the west and the more mesic mixed

cedar glades and bottomland hardwoods.

mesophytic forest to the east; some areas of urban.

nesophytic forest to the east.

Mostly oak-hickory, but transitional

Mostly oak-hickory, but transitional

Oak-hickory-pine, oak-hickory forest.

Potential Natural Vegetation

Southern mixed forest.

Southern floodplain forest.

Southern mixed fores

Southern floodplain forest.

Live oak-sea oats, cordgrass-saltgrass-

Live oak-sea oats, cordgrass-saltgrass-

mesophytic forest to the east.

to the west and the more mesic mixed

65-67/88-90 | blackgum, pine, sweetgum, basswood,

Thermic / 56-60 210-220 29/51; Oak-hickory forest and oak-hickory-pine Mostly forested; coal mining; some hay,

beech) in ravines and gorges.

basswood, beech) on lower slopes.

tulip poplar, oak) in ravines.

mesophytic forest (maple, buckeye, beech, | cropland and pasture.

Oak-hickory forest and oak-hickory-pine Mostly forested; public land (Bankhead

Oak-hickory forest; somewhat transitional Mixed and deciduous forest, pasture and

between the more xeric oak-hickory forest some cropland with hay, cattle, cotton,

between the more xeric oak-hickory forest soybeans, hay, corn, wheat, and cattle;

between the more xeric oak-hickory forest and some cropland; generally deciduous

to the west and the more mesic mixed farm woodlots and deciduous forest;

190-225 29-31/49-54; Mixed oak forest, oak-hickory-pine forest, Mixed and deciduous forest; pasture

pottomland oak forest, some cedar glades. | and cropland with hay, corn, soybeans,

Mixed oak forest, oak-hickory-pine forest. | Mixed and deciduous forest, some small

Frost Free | Mean Temperature

Townley, Montevallo, Holston, Thermic / 52-58 | 190-225 | 28-31/49-54; Mixed oak forest, oak-hickory-pine forest, Mixed and deciduous forest; pasture

66-69/89-9

28/51;

Frost Free | Mean Temperature

Mean annual January min/max

(days) July min/max, (°l

26/48;

27/50;

66/89

67/90

55-67 | 190-215 | 25-29/46-49; | Oak-hickory forest; mixed mesophytic

| Mean annual | Frost Free | January min/max | J

52-59 | 190-225 |

Temperature

/ Moisture

Thermic /

Udic

Thermic /

Thermic /

Temperature Mean annual

(inches)

52-58 200-215

56-62 200-210

Temperature Mean annual Mean annual January min/max

54-58 210-215

Thermic / 54-56 210

54-58

210

Temperature
/ Moisture
/ Moisture
/ Moisture
/ Mean annual
/ Ginches Mean annual
/ Mean annual
/ Mean annual
/ Mean annual
/ January min/max;

49-53 | 240-250 |

48-53 240-260

46-50 | 230-240 |

64-66 (AL) 270-285

50-52 260-285

60-64 280-290

(days) July min/max, (

40/60;

38/62;

38/62;

39/63;

37/61;

70/91

39/60;

72/90

41/60;

72/90

(inches)

Thermic / 50-53 240-255

(GA);

(days) July min/max, (°

29/48;

68/89

/ Moisture

some Mesic

Thermic /

Udic

Udic

Thermic /

Thermic /

Udic

Udic

Thermic /

Udic

Thermic /

Udic

Thermic /

Bayou, Escambia, Smithton, Thermic / 60-64 270-285

Thermic

Thermic

Thermic /

Thermic /

Thermic /

Aquic

Udic, Aquic

/ Aquic,

Common Soil Series

Dewey, Decatur, Minvale;

Chewacla on floodplains.

Cunningham, Conasauga,

Nella, Montevallo, Gorgas,

Hartsells, Nauvoo, Townley,

Montevallo, Bodine, Nella,

Gorgas, Townley, Shack, Allen,

Common Soil Series

Hartsells, Townley, Gorgas,

Etowah; Lobelville on

Nella, Gorgas, Hartsells,

Nauvoo, Enders

Wynnville

mine areas.

Bouldin, Hector, Townley,

Montevallo, Enders, Nauvoo,

Gorgas, Sipsey, Bankhead,

Sunlight, Townley, Enders,

Palmerdale on reclaimed coal

Common Soil Series

Brandon, Dewey, Decatur

Dickson, Colbert, Ketona,

Bodine, Fullerton, Dickson;

Chenneby and Ennis on

Wynnville, Linker, Allen,

Gorgas, Nauvoo, Hartsells

Common Soil Series

Mascotte, Sapelo, Leon

Pelham, Surrency, Leefield,

Ellabelle, Bladen, Pelham,

Dasher, Croatan, Leon, Lynn

Haven, Mandarin, Mascotte,

Leefield, Pelham, Mascotte,

Tawcaw, Chewacla, Congaree. Aquic

Surrency, Tifton, Carnegie,

In AL: Dorovan, Levy.

near beaches:

Fripp, Newhan

Mandarin, Rutlege, Chipley,

Cainhoy; Fripp and Duckston

Levy, Lafitte, Axis, Duckston,

Bohicket, Capers in tidal

Mascotte, Leon

Paleudults, Albaquults), Alfisols | Brookman, Leefield, Mandarin,

Spodosols (Alaquods); Entisols | Clarendon, Fuquay, Kershaw

Harleston, Leon, Dorovan, Levy Aquic

Montevallo; Brilliant and

Montevallo, Nauvoo, Sunlight,

Firestone, Allen

Cheaha, Leesburg

Cheaha, Tallapoosa

Land Use and Land Cover

cotton, beef, poultry, and hogs; rural residential, urban and industrial.

and cropland with hay, corn, soybeans,

Land Use and Land Cover

Cropland and pasture, with soybeans,

and pasture in lower stream bottoms

southwest, cropland and pasture with

corn, soybeans, potatoes, tomatoes, and

hay; a major poultry production region in AL; small areas of coal mining.

some pasture and minor cropland; some

dairy cows, poultry and egg production.

Land Use and Land Cover

Mixed and deciduous forest, pasture

forest on ridge tops, pasture and red

Mixed and deciduous forest, pasture,

minor cropland with hay, cattle, cotton,

Land Use and Land Cover

Mixed forest, urban, forested wetland,

some pasture and cropland on better

Evergreen forest / pine plantations,

Evergreen forest / pine plantations,

Forested wetland, non-forested wetland; wildlife habitat, mostly public land

(Okefenokee National Wildlife Refuge).

Cropland with corn, cotton, soybeans, tobacco, blueberries; pine plantations,

Forested wetland, deciduous forest,

Marsh, forested wetland, evergreen

Marsh, forested wetland, wildlife habitat, beaches, recreation, fish and

shellfish production, urban.

forest, urban, wildlife habitat, beaches,

recreation, fish and shellfish production.

drained areas.

forested wetland.

forested wetland.

forested wetland.

wildlife habitat.

cedar on hillsides, small fields of corn,

hay, and garden crops on foot slopes and

soybeans, wheat, and corn.

poultry (broiler and egg) production.

corn, hay, and wheat; more mixed forest

to the south on central ridge, knobs, and

cotton, beef, poultry, and hogs. rural

residential, urban and industrial.

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