

APPENDIX F—SOILS

SOILS WITHIN ALABAMA AND MISSISSIPPI BLM-ADMINISTERED NON-U.S. FOREST SERVICE FEDERAL MINERAL OWNERSHIP

Tables F-1 and F-2 provide erosion potential and prime farmland information for areas in Alabama and Mississippi BLM-administered non-U.S. Forest Service Federal Mineral Ownership (non-USFS FMO) that are considered high potential for either oil and gas or coal exploration and development. Data are available in spatial format.

Table F-1. Soils Descriptions for Areas Within Alabama Non-USFS FMO

County	Soil Description	Erosion Potential ¹	Prime Farmland ¹
Baldwin	Coastal beaches	None	No
Baldwin	Leon sand	Slight	No
Baldwin	St. Lucie–Leon–Muck complex	Slight	No
Cherokee	Allen fine sandy loam, 2 to 6 percent slopes	Slight to Moderate	Yes
Cherokee	Hartsells fine sandy loam, 2 to 6 percent slopes	Slight to Moderate	Yes
Cherokee	Hartsells fine sandy loam, 6 to 10 percent slopes	Moderate	No
Cherokee	Hartsells-rock outcrop association, steep	Very Severe	No
Cherokee	Hector-Hartsells-rock outcrop complex, 2 to 10 percent slopes (Gorgas-Hartsells-rock outcrop)	Moderate	No
Cherokee	Linker fine sandy loam, 6 to 10 percent slopes	Slight to Moderate	No
Cherokee	Toccoa soils	Slight	No
DeKalb	Crossville rocky loam, rolling	Unavailable	No
DeKalb	Hartsells fine sandy loam, eroded, rolling	Moderate	No
DeKalb	Hartsells fine sandy loam, eroded, rolling, shallow	Moderate	No
DeKalb	Hartsells fine sandy loam, eroded, undulating	Slight to Moderate	Yes
DeKalb	Hartsells fine sandy loam, eroded, undulating, shallow	Slight to Moderate	No
DeKalb	Hartsells fine sandy loam, rolling, shallow	Moderate	No
DeKalb	Muskingum stony fine sandy loam, hilly	Very Severe	No
DeKalb	Muskingum stony fine sandy loam, rolling	Very Severe	No
DeKalb	Philo loam	Slight	Yes
DeKalb	Rockland, sandstone, rolling	Very Severe	No
DeKalb	Rockland, sandstone, steep	Very Severe	No
Fayette	Barfield-Rock outcrop complex, steep	Very Severe	No
Fayette	Gorgas-rock outcrop complex, 8 to 15 percent slopes	Very Severe	No
Fayette	Hanceville fine sandy loam, 8 to 15 percent slopes	Severe	No
Fayette	Hanceville-Urban land complex, 2 to 8 percent slopes	Slight to Moderate	No

County	Soil Description	Erosion Potential ¹	Prime Farmland ¹
Fayette	Holston-urban land complex, 2 to 8 percent slopes	Unavailable	No
Fayette	Nauvoo and Nectar fine sandy loams, 2 to 6 percent slopes	Slight to Moderate	Yes
Fayette	Nauvoo-Urban land complex, 8 to 15 percent slopes	Unavailable	No
Fayette	Sunlight-Sipsey complex, 15 to 40 percent slopes	Very Severe	No
Fayette	Sunlight-Townley complex, 15 to 45 percent slopes	Very Severe	No
Jefferson	Docena complex, 0 to 4 percent slopes	Slight	No
Jefferson	Hanceville fine sandy loam, 8 to 15 percent slopes	Severe	No
Jefferson	Hanceville-urban land complex, 2 to 8 percent slopes	Slight to Moderate	No
Jefferson	Montevallo-Nauvoo association, steep	Very Severe	No
Jefferson	Nauvoo fine sandy loam, 8 to 15 percent slopes	Unavailable	No
Jefferson	Palmerdale complex, steep	Unavailable	No
Jefferson	Sullivan-state complex, 0 to 2 percent slopes	Slight	Yes
Jefferson	Townley-Nauvoo complex, 8 to 15 percent slopes	Severe	No
Mobile	Pactolus loamy sand, 0 to 2 percent slopes	Moderate	No
Shelby	Allen loam, 2 to 6 percent slopes	Slight to Moderate	Yes
Shelby	Allen loam, 6 to 10 percent slopes	Moderate	No
Shelby	Allen-Quitman-urban land complex, 0 to 10 percent slopes	Slight to Moderate	No
Shelby	Choccolocco loam, occasionally flooded	Slight	Yes
Shelby	Choccolocco-Sterrett association, frequently flooded	Slight	No
Shelby	Decatur silt loam, 2 to 6 percent slopes	Slight to Moderate	Yes
Shelby	Decatur silt loam, 6 to 10 percent slopes	Moderate	No
Shelby	Etowah silt loam, 6 to 10 percent slopes	Moderate	No
Shelby	Minvale-Fullerton complex, 6 to 15 percent slopes	Severe	No
Shelby	Nauvoo-Sunlight complex, 15 to 25 percent slopes	Severe	No
Shelby	Nella-Mountainburg association, steep	Very Severe	No
Shelby	Quitman loam, 0 to 4 percent slopes	Slight to Moderate	Yes
Shelby	Sterrett silt loam	Slight	No
Shelby	Townley silt loam, 12 to 18 percent slopes	Very Severe	No
Shelby	Townley silt loam, 4 to 12 percent slopes	Severe	No
Shelby	Townley-Sunlight complex, 12 to 35 percent slopes	Very Severe	No
Shelby	Tupelo loam, frequently flooded	Unavailable	No
Tuscaloosa	Adaton silt loam	Slight	No
Tuscaloosa	Augusta-Amy complex, frequently flooded	Slight	No
Tuscaloosa	Bama fine sandy loam, 0 to 2 percent slopes	Slight	Yes
Tuscaloosa	Bama fine sandy loam, 2 to 6 percent slopes	Slight to Moderate	Yes
Tuscaloosa	Boswell loam, 4 to 10 percent slopes	Severe	No
Tuscaloosa	Choccolocco silt loam	Slight	Yes

County	Soil Description	Erosion Potential ¹	Prime Farmland ¹
Tuscaloosa	Ellisville silt loam, frequently flooded	Slight	No
Tuscaloosa	Falkner silt loam	Slight	Yes
Tuscaloosa	Iuka-Mantachie complex, frequently flooded	Slight	No
Tuscaloosa	Luverne-Smithdale complex, 4 to 10 percent slopes	Severe	No
Tuscaloosa	Montevallo-Nauvoo association, steep	Very Severe	No
Tuscaloosa	Montevallo-Nauvoo complex, 15 to 45 percent slopes	Very Severe	No
Tuscaloosa	Nauvoo fine sandy loam, 4 to 10 percent slopes	Moderate	No
Tuscaloosa	Palmerdale very gravelly loam, 6 to 45 percent slopes	Very Severe	No
Tuscaloosa	Palmerdale very shaly loam, 6 to 45 percent slopes	Very Severe	No
Tuscaloosa	Ruston fine sandy loam, 0 to 2 percent slopes	Slight	Yes
Tuscaloosa	Ruston fine sandy loam, 2 to 6 percent slopes	Slight	Yes
Tuscaloosa	Shatta silt loam, 0 to 2 percent slopes	Slight	Yes
Tuscaloosa	Shatta silt loam, 2 to 6 percent slopes	Slight to Moderate	Yes
Tuscaloosa	Smithdale association, hilly	Very Severe	No
Tuscaloosa	Smithdale fine sandy loam, 15 to 35 percent slopes	Very Severe	No
Tuscaloosa	Smithdale fine sandy loam, 6 to 15 percent slopes	Severe	No
Tuscaloosa	Smithdale-Flomaton complex, 15 to 35 percent slopes	Very Severe	No
Tuscaloosa	Smithdale-Luverne association, hilly	Severe	No
Tuscaloosa	Smithdale-Luverne complex, 15 to 35 percent slopes	Very Severe	No
Tuscaloosa	Smithdale-Pikeville association, hilly	Very Severe	No
Walker	Brilliant and Palmerdale extremely channery loams, 6 to 60 percent slopes	Very Severe	No
Walker	Hanceville fine sandy loam, 8 to 15 percent slopes	Severe	No
Walker	Izagora-Annemaine association, moderately undulating	Unavailable	No
Walker	Montevallo channery silt loam, 30 to 60 percent slopes	Very Severe	No
Walker	Nauvoo and Nectar fine sandy loams, 2 to 6 percent slopes	Slight to Moderate	Yes
Walker	Nauvoo and Sipsey soils, 6 to 12 percent slopes	Severe	No
Walker	Nauvoo-Townley complex, 4 to 20 percent slopes	Very Severe	No
Walker	Sipsey-Bankhead complex, 15 to 45 percent slopes	Very Severe	No
Walker	Spadra-Whitwell complex, 0 to 3 percent slopes, occasionally flooded	Unavailable	Yes
Walker	Sunlight-Sipsey complex, 15 to 40 percent slopes	Very Severe	No
Walker	Sunlight-Townley complex, 15 to 45 percent slopes	Very Severe	No
Walker	Townley silt loam, 2 to 6 percent slopes	Moderate	No
Walker	Townley silt loam, 6 to 15 percent slopes	Very Severe	No

¹ Erosion potential and prime farmland classification data collected from NRCS Soil Data Mart (<http://soildatamart.nrcs.usda.gov/>).

Table F-2. Soils Descriptions for Areas Within Mississippi Non-USFS FMO

County	Soil Description	Erosion Potential ¹	Prime Farmland
Forrest	Bassfield fine sandy loam, 0 to 2 percent slopes	Low to Moderate	Yes
Forrest	Benndale fine sandy loam, 2 to 5 percent slopes	Low to Moderate	Yes
Forrest	Benndale fine sandy loam, 5 to 8 percent slopes	Low to Moderate	Yes
Forrest	Cahaba sandy loam, 0 to 2 percent slopes	Moderate	Yes
Forrest	Malbis loam, 2 to 5 percent slopes	Moderate	Yes
Forrest	McGauran loamy sand, 2 to 5 percent slopes	Low	Yes
Forrest	Poarch fine sandy loam, 2 to 5 percent slopes	Low to Moderate	Yes
Forrest	Poarch fine sandy loam, 5 to 8 percent slopes	Low to Moderate	Yes
Forrest	Prentiss loam, 0 to 2 percent slopes	Moderate	Yes
Forrest	Prentiss loam, 2 to 5 percent slopes	Moderate	Yes
Forrest	Bassfield urban land complex, occasionally flooded	Unavailable	No
Forrest	Benndale fine sandy loam, 8 to 12 percent slopes	Low to Moderate	No
Forrest	Bibb silt loam	Moderate	No
Forrest	Bibb and Jena soils, frequently flooded	Moderate	No
Forrest	Cadeville variant silt loam, 15 to 60 percent slopes	Moderate to High	No
Forrest	Faulkner-Susquehanna urban land complex, 2 to 5 percent slopes	Moderate	No
Forrest	Heidel sandy loam, 12 to 30 percent slopes	Low to Moderate	No
Forrest	Jena-Nugent association, frequently flooded	Low	No
Forrest	McLaurin loamy sand, 5 to 8 percent slopes	Low	No
Forrest	McLaurin-Benndale association, rolling	Moderate	No
Forrest	Pamlico-Dorovan association	Low	No
Forrest	Petal-Susquehanna-Benndale association, rolling	Moderate	No
Forrest	Pits	Moderate	No
Forrest	Poarch-Saucier association, undulating	Moderate	No
Forrest	Prentiss urban land complex	Moderate	No
Forrest	Susquehanna silt loam, 5 to 12 percent slopes	Moderate	No
Forrest	Troup loamy fine sand, 0 to 8 percent slopes	Low	No

¹ Erosion potential was estimated based on K factors (susceptibility of a soil to sheet and rill erosion by water) provided by the NRCS. Erosion hazard estimation as provided for Alabama were not available for Mississippi.