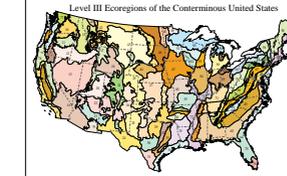
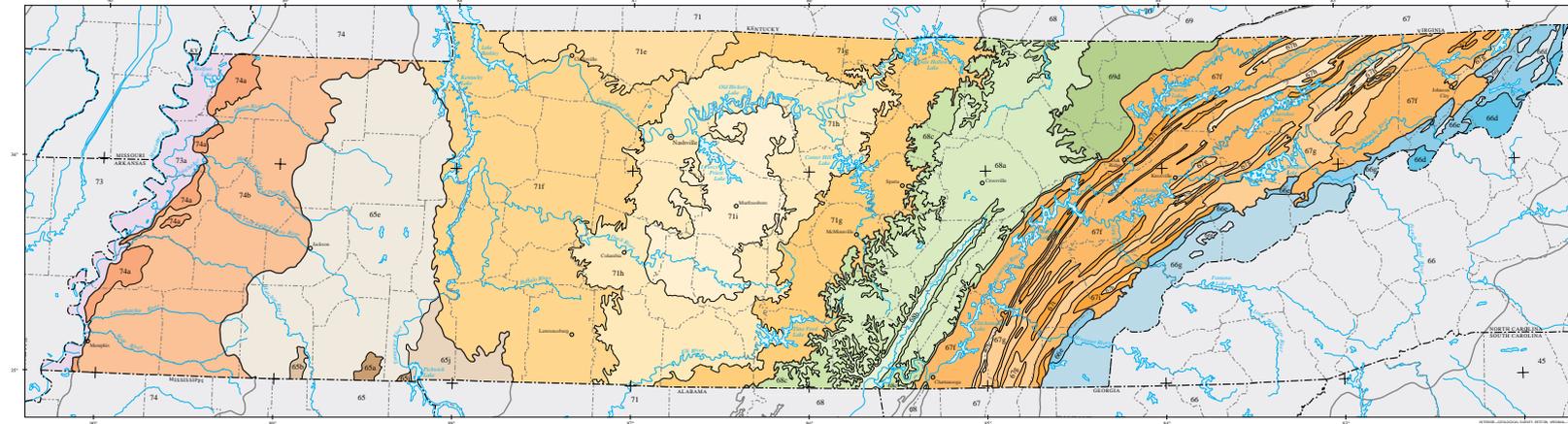
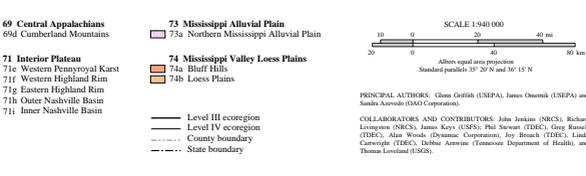


# Ecoregions of Tennessee



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Ecoregions denote areas of general similarity in ecosystem and in the type, quality, and quantity of environmental resources; they are designed to serve as a useful framework for the research, assessment, management, and monitoring of ecosystems and ecosystem components. Ecoregions are directly applicable to the immediate needs of state agencies, such as the Tennessee Department of Environment and Conservation (TDEC), for setting regional natural resource reference sites and identifying high-quality waters, developing ecoregion-specific chemical and biological water quality criteria and standards, and implementing TDEC's watershed management program. Ecoregion frameworks are also relevant to integrated ecosystem management, a shared goal of most federal and state resource management agencies.

The approach used to compile this atlas is based on the premise that ecological regions can be identified through the analysis of the pattern and the composition of biotic and abiotic phenomena that affect or reflect differences in ecosystem quality and integrity (Wilson 1986, Omernik 1975). The relative importance of each characteristic varies from one ecological region to another regardless of the hierarchical level. A Roman numeral hierarchical scheme has been adopted for different levels of ecological regions. Level I is the coarsest level, dividing North America into 15 ecological regions, with level II subdividing the continent into 52 regions. At level III, the continental United States contains 99 regions. The Tennessee Environmental Protection Agency (USEPA 1997), Level IV is a further subdivision of Level III ecoregions. Evolution of the methods used to define USEPA's ecoregions are given in Omernik (1995), Griffith et al. (1994, 1997), and Callahan et al. (1995).

This level III and IV ecoregion map was compiled at a scale of 1:200,000; it depicts revisions and subdivisions of earlier level III ecoregions that were originally compiled at a smaller scale (USEPA 1996, Omernik 1975). The poster is part of a collaborative project primarily between the USEPA National Health and Environmental Effects Research Laboratory - Corvallis, OR, and TDEC's Division of Water Pollution Control. Collaboration and consultation also occurred with the United States Department of Agriculture - Natural Resources Conservation Service (NRCS), the United States Department of Agriculture - Forest Service (USFS), USEPA Region IV, and with other State of Tennessee agencies.

This project is associated with an integrative effort to develop a common framework of ecological regions. Reaching that objective requires recognition of the differences in the conceptual approaches and mapping methodologies that have been used to develop the most commonly used ecoregion frameworks, including those reported by the USEPA (Bullard et al. 1994), the USEPA (Omernik 1975, 1995), and the NRCS (U.S. Department of Agriculture 1981). As each of these frameworks is further developed, the differences between them lessen. Regional collaborative projects such as this one in Tennessee, where some agreement can be reached among multiple resource management agencies, is a step in the direction of attaining consistency in ecoregion frameworks for the entire nation.

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 Callahan, A.L., Whittle, T.R., Lavelle, D.P., Omernik, J.M., and Hughes, K.M., 1990. Reorganization as a tool for managing environmental resources. Corvallis, Oregon: U.S. Environmental Protection Agency (EPA/600/R-90/06), 32 p.  
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 Griffith, G.E., Omernik, J.M., and Auerbach, S.H., 1995. Ecoregions of Tennessee. Corvallis, Oregon: U.S. Environmental Protection Agency (EPA/600/R-95/23), 31 p.  
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 Wilson, E.O., 1986. *Terrestrial ecoregions of Canada, Ontario, Environment Canada, Environmental Land Classification Series No. 19*, 26 p.



**65. Southeastern Plains**  
 Three irregular plains have a mosaic of cropland, pasture, woodland, and oak-hickory-pine forest. The Cretaceous to Tertiary-age sands, silts, and clays of the region contrast geologically with the older limestone, chert, and shale found in the Interior Plateau (71). Elevations are generally higher than in the Interior Plateau (71) to the east. Streams in this area are relatively low-gradient and sand-bottomed.

**65a The Blackland Prairie**, extending north from Mississippi, is a flat to undulating piedmont region covering only a small portion of Missouri, Tennessee, Georgia, and Alabama. Although there is some of the Cretaceous-chalk, marl, and calcareous clay that characterizes the region in Missouri and Alabama, the northern extent of the Blackland Prairie in Tennessee is not distinct. To the south, the natural vegetation had dominant trees of oaks, hickories, pine oak, and cypress, along with patches of Missouri prairie. Today, the area is mostly in cropland and pasture, with small patches of mixed hardwood forest.

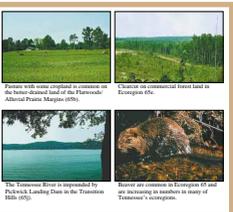
**65b The Flatwoods/Alluvial Prairie Margins** extend north from Mississippi, but the discontinuous of this narrow ecoregion belt fades quickly from Ripley, Mississippi northward. In Mississippi and Alabama, this is a transition region between the Blackland Prairie and the more rolling hills and ridges to the east. In the Flatwoods area, impurities are heavily forested, but the prairie and alluvial areas now have significant amounts of cropland and pasture. In Tennessee, the small region stands out as a highly agricultural land compared to the Interior Southeastern Plains and Hills (65c) that surround it.

**65c The Southeastern Plains and Hills** contain several north-south trending bands of marl and clay formations. Tertiary-age sand, silt, and lignite are to the east, and Cretaceous-age fine sand, fossiliferous limestone sand, and silt clay are to the west. With

elevations reaching over 600 feet, and more rolling topography and more relief than the Loess Plains (74b) to the east, streams have increased potential, generally sandy substrates, and distinctive fauna characteristics for west Tennessee. The natural vegetation type is oak-hickory forest, grading into oak-hickory-pine to the south.

**65d Fall Line Hills** comprise, comprising the Tennessee and Touchstone Hills in Tennessee. Many streams of this transition area flow down into the Mississippi, Cretaceous-coastal plain sandstone, and the sand and chert gravel-surfaced materials are covered by sandy loam topsoils. It is mostly forested terrain of oak-hickory-pine on open hills, with 100-200 feet relief. Elevations in the small Tennessee portion, except between Chambers Creek and Paducah Lake in Hardin County, are 450-685 feet.

**65e Transition Hills** have the highest elevations in Ecoregion 65, and contain characteristics of both the Southeastern Plains and the Interior Plateau (71) ecoregions. Many streams of this transition area flow down into the Mississippi, Devonian, and Silurian-age rocks and may look similar to those of the Interior Plateau (71). Cretaceous-coastal plain deposits of silt, sand, clay, and gravel, however, overlie the older limestone, shale, and chert. It is a mostly forested region of oak-hickory-pine, and has had pine plantation activities associated with pulp and paper operations.

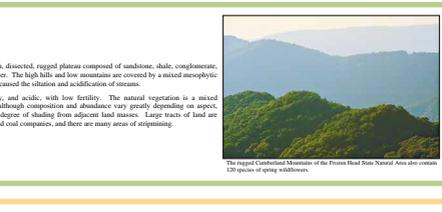


**69. Central Appalachians**  
 The Interior Plateau is a diverse ecoregion extending from southern Indiana and Ohio to northern Alabama. Rock types are distinctly different from the coastal plain sands of western Tennessee ecoregions, and elevations are lower than the Appalachian ecoregions to the east. Mississippi to Ordovician-age limestone, chert, sandstone, and siltstone compose the foundations of open hills, irregular plains, and plateaus. The natural vegetation is primarily oak-hickory forest, with some area of bottomland prairie and cedar glades. The region has the most diverse fish fauna in Tennessee.

**69a The Cumberland Mountains**, in contrast to the sandstone-dominated Cumberland Plateau (68a) to the west and southwest, are more highly dissected, with narrower, steeper slopes, and younger Pennsylvanian shale, sandstone, siltstone, and clay. Numerous, winding valleys separate the mountains ridges, and relief is often 2000 feet. Cross Mountains, west of Lake City, reaches 2534 feet in elevation. Sites are generally

dissected, with elevations of 400-1000 feet. The geologic base of Mississippian-age chert, shale, and siltstone is covered by soils that tend to be cherty, acid, and low in productivity. Streams are characterized by coarse chert gravel and sand substrates, with areas of bedrock, moderate gradients, and relatively slow flow. The oak-hickory natural vegetation was mostly deforested in the mid to late 1800's, in conjunction with the iron-ore related mining and smelting of the mineral basin, but now the region is again heavily forested. Some agriculture occurs on the flatter interfluves and in the streams, and river valleys: mostly hay, pasture, and cattle, with some cultivation of corn and tobacco.

**69b The Western Pennsylvanian Karst** is a flatter area of irregular plains, with fewer bottomland hardwood forests than the open hills of the Interior Plateau (71). Small sinkholes and depressions are common. The productive soils of the mobile agricultural areas are formed mostly from a thin loess mantle over pasture and cropland. Mississippian-age limestones. Most of the region is cultivated as in pasture, tobacco and livestock are the principal agricultural products, with some corn, soybeans, and small grains. The natural vegetation consisted of oak-hickory forest with mosaics of bottomland prairie and bottomland hardwood forest, with some cypress, and small patches of bottomland hardwood forest. Most of the region is cultivated as in pasture, tobacco and livestock are the principal agricultural products, with some corn, soybeans, and small grains. The natural vegetation consisted of oak-hickory forest with mosaics of bottomland prairie and bottomland hardwood forest, with some cypress, and small patches of bottomland hardwood forest.



**66. Blue Ridge Mountains**  
 The Blue Ridge Mountains of Tennessee are forested slopes, high gradient, cool, clear streams, and rugged terrain on a mix of igneous, metamorphic, and sedimentary geology. Annual precipitation of nearly 60 inches can occur on the west-sloping high peaks of the Great Smoky Mountains that reach over 6000 feet. The southern Blue Ridge is one of the most ecoregions of biodiversity in the eastern U.S. It is the most floristically diverse ecoregion of the state, and includes Appalachian oak forest, northern hardwood, and Southeastern spruce-fir forests. Shad, grass, and health beds, hemlock, cove hardwoods, and oak-pine communities are also significant.

**66a The Southern Shaded Ridges and Mountains** occur in Tennessee's northeastern corner. The Blue Ridge Mountains are forested slopes, high gradient, cool, clear streams, and rugged terrain on a mix of igneous, metamorphic, and sedimentary geology. Annual precipitation of nearly 60 inches can occur on the west-sloping high peaks of the Great Smoky Mountains that reach over 6000 feet. The southern Blue Ridge is one of the most ecoregions of biodiversity in the eastern U.S. It is the most floristically diverse ecoregion of the state, and includes Appalachian oak forest, northern hardwood, and Southeastern spruce-fir forests. Shad, grass, and health beds, hemlock, cove hardwoods, and oak-pine communities are also significant.

**66b The Southern Sedimentary Ridges** in Tennessee include some of the westernmost high-grade metamorphic rocks. The typical crystalline rock types include granite, gneiss, schist, and marble. The rocks are relatively young, ranging from 400 million years old. Elevations in this rough, dissected region range from 2000-6200 feet, with Roan Mountain reaching 6286 feet. Although there are a few small areas of pasture and agriculture, the region is mostly forested. Appalachian oak and northern hardwood forests predominate.

**66c The Southern Metasedimentary Mountains** in Tennessee include some of the westernmost high-grade metamorphic rocks. The typical crystalline rock types include granite, gneiss, schist, and marble. The rocks are relatively young, ranging from 400 million years old. Elevations in this rough, dissected region range from 2000-6200 feet, with Roan Mountain reaching 6286 feet. Although there are a few small areas of pasture and agriculture, the region is mostly forested. Appalachian oak and northern hardwood forests predominate.

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**71. Interior Plateau**  
 The Interior Plateau is a diverse ecoregion extending from southern Indiana and Ohio to northern Alabama. Rock types are distinctly different from the coastal plain sands of western Tennessee ecoregions, and elevations are lower than the Appalachian ecoregions to the east. Mississippi to Ordovician-age limestone, chert, sandstone, and siltstone compose the foundations of open hills, irregular plains, and plateaus. The natural vegetation is primarily oak-hickory forest, with some area of bottomland prairie and cedar glades. The region has the most diverse fish fauna in Tennessee.

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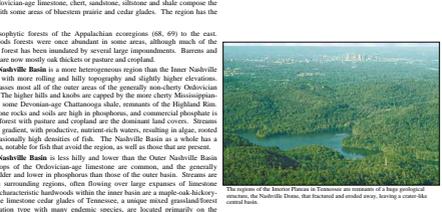
**71b The Western Highland Rim** is characterized by dissected, rolling terrain of open hills, with elevations of 400-1000 feet. The geologic base of Mississippian-age chert, shale, and siltstone is covered by soils that tend to be cherty, acid, and low in productivity. Streams are characterized by coarse chert gravel and sand substrates, with areas of bedrock, moderate gradients, and relatively slow flow. The oak-hickory natural vegetation was mostly deforested in the mid to late 1800's, in conjunction with the iron-ore related mining and smelting of the mineral basin, but now the region is again heavily forested. Some agriculture occurs on the flatter interfluves and in the streams, and river valleys: mostly hay, pasture, and cattle, with some cultivation of corn and tobacco.

**71c The Eastern Highland Rim** has more level terrain than the Western Highland Rim (71b), with landforms characterized as subhills of moderate relief and irregular plains. Mississippian-age limestone, chert, shale, and dolomite predominate and have terraced sandhills and depressions are especially noticeable between Sparta and McMinnville. Numerous springs and spring-associated fish fauna also typify the region. Natural vegetation for the region is transitional between the oak-hickory type to the west

and the mixed mesophytic forests of the Appalachian ecoregion (68, 69) to the east. Bottomland hardwood forests were once abundant in some areas, although much of the original bottomland forest has been inundated by several large impoundments. Barren and former prairie areas are now mostly oak-hickory forest of pasture and cropland.

**71d The Outer Nashville Basin** is a more heterogeneous region than the Inner Nashville Basin (71b), with more rolling and hilly topography and slightly higher elevations. The region encompasses most of all of the outer areas of the generally north-south Ordovician limestone belt. The higher hills and knolls are capped by the more cherty Mississippian-age formations, and some Devonian-age Chattanooga shale, remnants of the Highland Rim. The region's limestone rocks and soils are high in phosphorus, and commercial phosphate is mined. Dissection forest with pasture and cropland on the dominant land covers. Streams are low to moderate gradient, with productive, nutrient-rich flows, resulting in algae, moss, and aquatic invertebrates. The limestone cinder hills of the Nashville Basin as a whole has a distinctive fish fauna, suitable for fish that require the region, as well as those that do not.

**71e The Inner Nashville Basin** is less hilly and lower than the Outer Nashville Basin. It is a more homogeneous region than the Inner Nashville Basin (71b), with less topography than surrounding regions, often flowing over large expanses of limestone bedrock. The most characteristic hardwood forests within the inner basin are a mixed-oak-hickory oak association. The limestone cinder hills of Tennessee, a unique mixed grassland forest of oak-hickory vegetation type with many endemic species, are located primarily on the limestone of the Inner Nashville Basin. The more open, open characteristics and shallow soils of the cedar glades also result in a distinct distribution of amphibian and reptile species. Urban, suburban, and industrial land use in the region is increasing.



**67. Ridge and Valley**  
 Also known as the Great Valley of Tennessee, this is a relatively low-lying region between the Blue Ridge Mountains to the east and the Cumberland Plateau to the west. As a result of extensive folding and faulting, valleys occur in a variety of widths, heights, and geologic materials, including limestone, dolomite, shale, sandstone, chert, limestone, and marble. Springs and caves are relatively numerous. Present-day forest cover about 50% of the region. The ecoregion has great aquatic habitat diversity in streams and supports a diverse fish fauna.

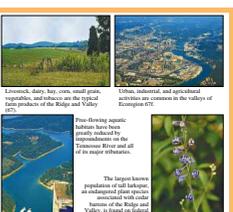
**67a The Southern Limestone-Dolomite Valleys and Low Rolling Hills** form a heterogeneous region composed predominantly of limestone and chert dolomite. The natural vegetation consists of oak-hickory forest, with some areas of bottomland prairie and bottomland hardwood forest. The region is mostly forested. Appalachian oak and northern hardwood forests predominate.

**67b The Southern Sandstone Ridges** are forested slopes, high gradient, cool, clear streams, and rugged terrain on a mix of igneous, metamorphic, and sedimentary geology. Annual precipitation of nearly 60 inches can occur on the west-sloping high peaks of the Great Smoky Mountains that reach over 6000 feet. The southern Blue Ridge is one of the most ecoregions of biodiversity in the eastern U.S. It is the most floristically diverse ecoregion of the state, and includes Appalachian oak forest, northern hardwood, and Southeastern spruce-fir forests. Shad, grass, and health beds, hemlock, cove hardwoods, and oak-pine communities are also significant.

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**73. Mississippi Alluvial Plain**  
 This ecoregion extends from southern Illinois, at the confluence of the Ohio River with the Mississippi River, south to the Gulf of Mexico. It is mostly a flat, broad floodplain with extensive areas of bottomland hardwood forest. The region is mostly forested. Appalachian oak and northern hardwood forests predominate.

**73a The Northern Mississippi Alluvial Plain** has more level terrain than the Western Highland Rim (71b), with landforms characterized as subhills of moderate relief and irregular plains. Mississippian-age limestone, chert, shale, and dolomite predominate and have terraced sandhills and depressions are especially noticeable between Sparta and McMinnville. Numerous springs and spring-associated fish fauna also typify the region. Natural vegetation for the region is transitional between the oak-hickory type to the west

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**73c The Eastern Highland Rim** has more level terrain than the Western Highland Rim (71b), with landforms characterized as subhills of moderate relief and irregular plains. Mississippian-age limestone, chert, shale, and dolomite predominate and have terraced sandhills and depressions are especially noticeable between Sparta and McMinnville. Numerous springs and spring-associated fish fauna also typify the region. Natural vegetation for the region is transitional between the oak-hickory type to the west



**68. Southwestern Appalachians**  
 Stretching from Kentucky to Tennessee, these open low mountains consist of a mosaic of forest and woodland with only slightly more than oak-hickory foresting stream drainage. The western boundary, near the Interior Plateau - Eastern Highland Rim (71c), is more consolidated with a rougher escarpment that is more deeply incised. The mixed mesophytic forest is restricted mainly to the deeper ravines and escarpment bluffs, with the upland forests are dominated by mixed oak with shortleaf pine, and oak-pine.

**68a The Cumberland Plateau** is a relatively flat, broad floodplain with extensive areas of bottomland hardwood forest. The region is mostly forested. Appalachian oak and northern hardwood forests predominate.

**68b The Cumberland Plateau** is a relatively flat, broad floodplain with extensive areas of bottomland hardwood forest. The region is mostly forested. Appalachian oak and northern hardwood forests predominate.

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**74. Mississippi Valley Loess Plains**  
 This ecoregion extends from southern Illinois, at the confluence of the Ohio River with the Mississippi River, south to the Gulf of Mexico. It is mostly a flat, broad floodplain with extensive areas of bottomland hardwood forest. The region is mostly forested. Appalachian oak and northern hardwood forests predominate.

**74a The Bluff Hills** consist of sand, clay, silt, and lignite, and are capped by loess. The region is mostly forested. Appalachian oak and northern hardwood forests predominate.

**74b The Loess Plains** are generally rolling irregular plains, 250-500 feet in elevation, with loess up to 50 feet thick. The region is a productive agricultural area of oak-hickory, bottomland hardwood, and mixed mesophytic forest. The region is mostly forested. Appalachian oak and northern hardwood forests predominate.

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