

USDA Forest Service Section, Subsection, and Landtype Descriptions for Southeastern Ohio

Map Description

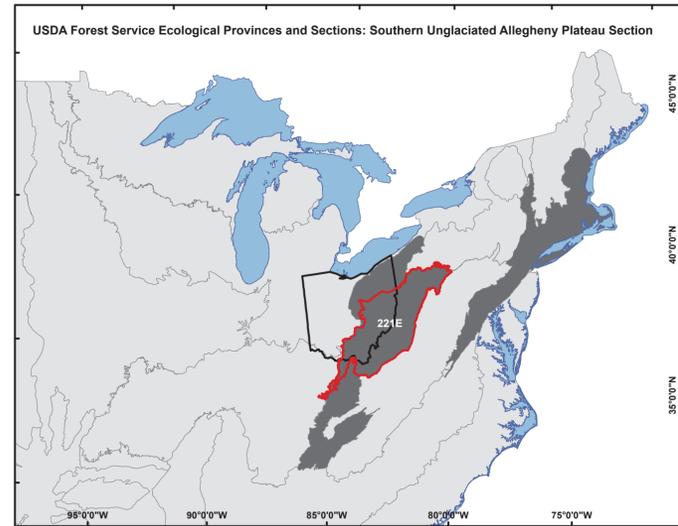
The USDA Forest Service uses the National Hierarchical Framework of Ecological Units (Cleland et al. 1997) to delineate and describe ecological units across a spectrum of spatial scales. Here, sections, subsections, and landtypes are depicted for southeastern Ohio, thus providing unique information at spatial scales ranging from subregional to local land units. Sections and subsections are defined according to the Forest Service hierarchy at the national scale (Cleland et al. 2007). Landtypes were modeled using primarily a topographic approach to assign land to Dry Oak forest (i.e., ridge tops and southwestern slopes), Dry-Mesic Mixed Oak Hardwood forest (i.e., northeastern slopes), and Rolling Bottomlands Mixed Hardwood forest (i.e., bottomlands). Mapping methods are described in Iverson et al. (2018) and Appendix 2 of the accompanying Research Map. Shown on the inset map below are the locations of the State of Ohio (black outline), the ecological province 221 (shaded dark gray within the gray outlines of provinces), and the Southern Unglaciated Allegheny Plateau Section (red outline) (Cleland et al. 2007). Small inset maps to the right show (at top) public and private land ownerships, depicting the dominance of private lands and the fragmented nature of the protected lands (Conservation Biology Institute 2012); and (at bottom) six classes of land cover and land use for Ohio as of 2011 (Homer et al. 2015).

Suggested Citation

Iverson, Louis R.; Bartig, Jarel L.; Nowacki, Gregory J.; Peters, Matthew P.; Dyer, James M.; Hutchinson, Todd F.; Matthews, Stephen N.; Adams, Bryce T. 2019. **USDA Forest Service section, subsection, and landtype descriptions for southeastern Ohio**. Research Map NRS-10. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station. 68 p. [Printed map included]. <https://doi.org/10.2737/NRS-RMAP-10>.

Data Sources

Main map: USDA Forest Service Ecological Subsections and Landtypes; U.S. Fish and Wildlife Service National Wetlands Inventory data (2017) representing primary lakes and rivers within the 17-county project area. Scale 1:500,000
 Ecological Provinces: USDA Forest Service Ecological Provinces and Section 221E.
 Land Ownership: Protected Areas Database—US ver. 2 (2012) within 17-county area. Scale 1:2,500,000
 Land Cover: National Land Cover Database (2011) (Homer et al. 2015) shown as six classes. Project area of 17 counties indicated by heavy black border. Scale 1:3,500,000
 Projection: Transverse Mercator (UTM NAD83 Zone 15N)



Literature Cited

Cleland, D.T.; Avers, P.E.; McNab, W.H.; Jensen, M.E.; Bailey, R.G.; King, T.; Russell, W.E. 1997. **National Hierarchical Framework of Ecological Units**. In: Boyce, M.S.; Haney, A., eds. Ecosystem management: applications for sustainable forest and wildlife resources. New Haven, CT: Yale University Press: 181–200.
 Cleland, D.T.; Freeouf, J.A.; Keys, J.E.; Nowacki, G.J.; Carpenter, C.A.; McNab, W.H. 2007. **Ecological subregions: sections and subsections for the conterminous United States**. Gen. Tech. Rep. WO-76D, [1:3,500,000, colored] [Map on CD-ROM] (Sloan, A.M., cartographer). Washington, DC: U.S. Department of Agriculture, Forest Service.
 Conservation Biology Institute (CBI). 2012. **Protected Areas Database of the United States (PAD-US) (CBI edition), ver. 2. Ohio**. Available at <https://databasin.org/datasets/fa3da93a9c1948d68061245c979ace8c>.
 Homer, C.; Dewitz, J.; Yang, L.M.; Jin, S.; Danielson, P.; Xian, G.; Coulston, J.W.; Herold, N.D.; Wickham, J.D.; Megown, K.A. 2015. **Completion of the 2011 National Land Cover Database for the conterminous United States—representing a decade of land cover change information**. Photogrammetric Engineering and Remote Sensing, 81(5): 345–354.
 Iverson, L.R.; Peters, M.P.; Bartig, J.L.; Rebbeck, J.; Hutchinson, T.F.; Matthews, S.N.; Stout, S. 2018. **Spatial modeling and inventories for prioritizing investment into oak-hickory restoration**. Forest Ecology and Management, 424: 355–366. <https://doi.org/10.1016/j.foreco.2018.05.018>.

Map Disclaimer

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- Section**
 — 221E Southern Unglaciated Allegheny Plateau
- Subsections and Landtypes**
- 221Ec Ohio Valley Lowland
 - Ohio Valley Lowland Plateau Dry Oak forest
 - Ohio Valley Lowland Dry-Mesic Mixed Oak Hardwood forest
 - Ohio Valley Lowland Rolling Bottomlands Mixed Hardwood forest
 - 221Ed East Hocking Plateau
 - East Hocking Plateau Plateau Dry Oak forest
 - East Hocking Plateau Dry-Mesic Mixed Oak Hardwood forest
 - East Hocking Plateau Rolling Bottomlands Mixed Hardwood forest
 - 221Ee Unglaciated Muskingum Plains
 - Unglaciated Muskingum Plains Plateau Dry Oak forest
 - Unglaciated Muskingum Plains Dry-Mesic Mixed Oak Hardwood forest
 - Unglaciated Muskingum Plains Rolling Bottomlands Mixed Hardwood forest
 - 221Ef Western Hocking Plateau
 - Western Hocking Plateau Dry Oak forest
 - Western Hocking Plateau Dry-Mesic Mixed Oak Hardwood forest
 - Western Hocking Plateau Rolling Bottomlands Mixed Hardwood forest
 - 221Eg Lower Scioto River Plateau
 - Lower Scioto River Plateau Dry Oak forest
 - Lower Scioto River Plateau Dry-Mesic Mixed Oak Hardwood forest
 - Lower Scioto River Plateau Rolling Bottomlands Mixed Hardwood forest
- National Wetlands Inventory**
 ■ Lakes and large rivers
- County boundary



Reference Scale: 1:500,000
 Coordinate System: USA Contiguous Albers Equal Area Conic USGS version
 Datum: North American 1983

