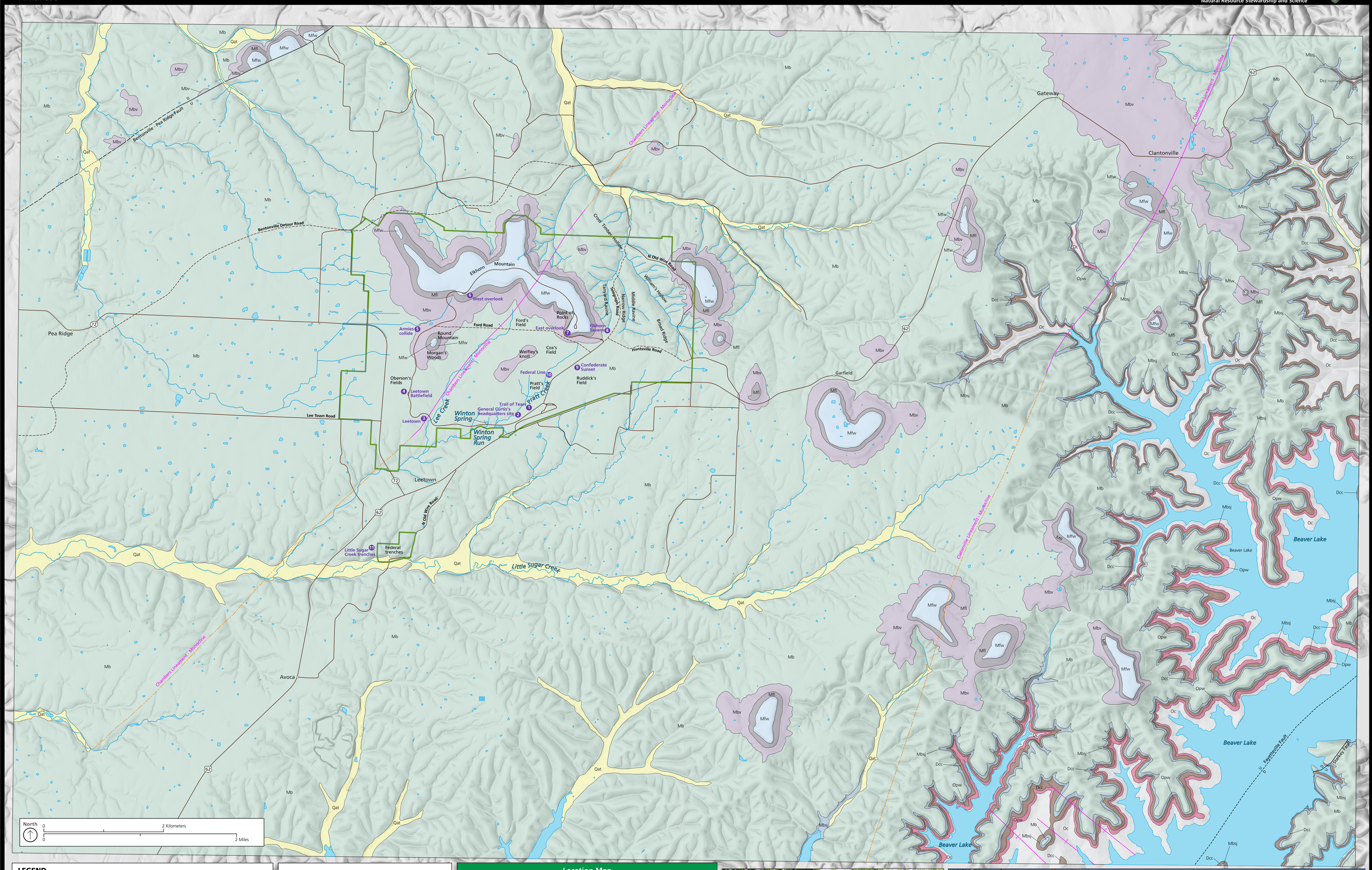
Geologic Map of Pea Ridge National Military Park

Arkansas

National Park Service
U.S. Department of the Interior

Geologic and Soil Resources Inventory
Natural Resource Stewardship and Science



LEGEND

- NPS boundary
- Highways and roads
- Historic road traces
- Water
- 1 Tour road stop location

Geologic Line Features

solid bold where known or certain, long dashed where approximate and/or concealed

- lineament

Faults

solid bold where known or certain, long dashed where approximate, dashed where inferred, short dashed where concealed, U and D symbols indicate upthrown and downthrown blocks, respectively on either side of the fault plane

- normal fault

Folds

solid where known or certain, arrows pointing in the down dip direction

- monocline

Geologic Contacts

solid black where known or certain, gray where an internal quadrangle boundary, blue where a shoreline

- contact

Geologic Units

- Qat — Alluvium and terrace deposits (Holocene and Pleistocene)
- Mfw — Fayetteville Shale, Wedington Sandstone Member (Upper Mississippian, Chesterian)
- Mfl — Fayetteville Shale, lower part (Upper Mississippian, Chesterian)
- Mbv — Batesville Sandstone, Hindsville Limestone Member (Upper Mississippian, Meramecian)
- Mb — Boone Formation, undivided (Lower Mississippian, Osagean and Kinderhookian)
- Mbsj — Boone Formation, St. Joe Limestone Member (Lower Mississippian, Kinderhookian)
- Dcc — Chattanooga Shale and Clifty Sandstone, undivided (Devonian)
- Opw — Powell Dolomite (Lower Ordovician)
- Oc — Cotter Dolomite (Lower Ordovician)

This map displays geologic map data compiled by the National Park Service Geologic Resources Inventory (GRI). It is not a substitute for site-specific investigations. All GRI products are available at https://go.nps.gov/gripubs.

GRI Source Maps:

Chandler, A. K., and S. M. Ausbrooks. 2009. Geologic map of the Pea Ridge quadrangle, Benton County, Arkansas (scale 1:24,000). Digital Geologic Quadrangle Map DGM-AR-00682. Digital compilation by W. K. Mayfield. Arkansas Geological Survey, Little Rock, Arkansas.

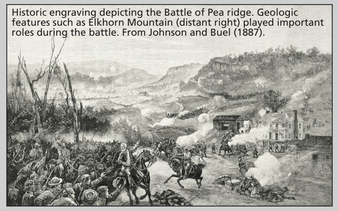
Chandler, A. K., and S. M. Ausbrooks. 2009. Geologic map of the Garfield quadrangle, Benton County, Arkansas (scale 1:24,000). Digital Geologic Quadrangle Map DGM-AR-00320. Digital compilation by W. K. Mayfield. Arkansas Geological Survey, Little Rock, Arkansas.

Source Scale: 1:24,000. According to US National Map Accuracy Standards, features are within 12 m (40 ft) of their true location.

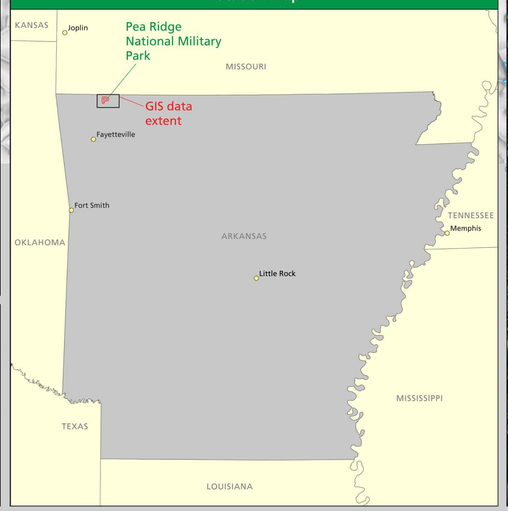
Poster Layout: Trista L. Thornberry-Ehrlich (Colorado State University)

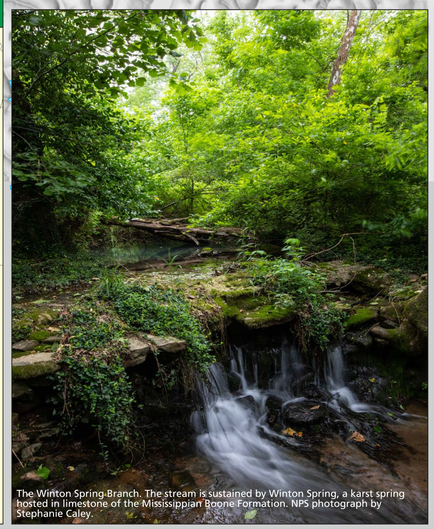
Poster Date: January 2025

Historic engraving depicting the Battle of Pea ridge. Geologic features such as Elkhorn Mountain (distant right) played important roles during the battle. From Johnson and Buel (1887).



Location Map





The Winton Spring-Branch. The stream is sustained by Winton Spring, a karst spring hosted in limestone of the Mississippian Boone Formation. NPS photograph by Stephanie Caley.

Rockfall below the East overlook. The Wedington Sandstone Member is prone to rockfalls and forms a resistant cap on Elkhorn Mountain. NPS photograph.