

Major Land Resource Area 082B

Wichita Mountains

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Description

This area is entirely in southwestern Oklahoma. It makes up about 1,060 square miles. The towns of Granite, Snyder, Medicine Park and Meers are in this MLRA. U.S. Highways 62 and 183 intersect in the area, and Interstate 44 crosses the far eastern end. Quartz Mountain State Park, the Wichita Mountains Wildlife Refuge and the Fort Sill Military Reservation are in this area. The surface geology of this MLRA is dominated by intrusive igneous rocks (primarily granite) of Precambrian age with associated limestone, sandstone, dolomite, chert, and shale of Cambrian age. This area is underlain by both igneous and sedimentary rocks in a structurally complex setting. Igneous rocks primarily include granite, rhyolite, gabbro, and anorthosite of Precambrian age. Sedimentary rocks include limestone, sandstone, dolomite, and chert. A large outcrop known as the “Limestone Hills” is part of this unit. The Meers Fault is a prominent geologic feature in this area.

Ecological site keys

MLRA 82B ES Key

I. Limestone PM

- A. Less than 20 inches to Limestone ... R082BY007OK – Edgerock
- B. More than 20 inches to Limestone ... R082BY048OK – Limestone Ridge

II. Granite PM

[Label] A. Cobbly/Skeletal

- 1 Less than 20 inches to Granite ... R082BY036OK – Granite Hills PE 38-48
- 2 More than 20 inches to Granite ... R082BY004OK – Boulder Ridge Savannah

B. Not Cobbly/Skeletal ... R082BY056OK – Loamy

III. Shale PM

[Label] A