

Ecological site group GX070A01XESG02

Shallow

Last updated: 05/16/2023
Accessed: 09/21/2024

Key Characteristics

- Site does not meet criteria in 1a.
- Root-restrictive layer occurs within 50 cm of the soil surface.

Provisional. A provisional ecological site description has undergone quality control and quality assurance review. It contains a working state and transition model and enough information to identify the ecological site.

Physiography

This site occurs on landform positions where soils are shallow to root-restrictive layers. Common examples are escarpments and structural benches. Stream channels with exposed bedrock are excluded from this group, and correlate to the Run-On Group instead.

Soil features

Soils are shallow (< 20") to a root-restrictive layer such as lithic contact (sandstone, limestone, basalt), paralithic contact (weathered shale), or petrocalcic materials (layers that are cemented by carbonates).

Major Land Resource Area

MLRA 070A
High Plateaus of the Southwestern Great Plains

Subclasses

- F070AY020NM–Juniperus monosperma-Pinus edulis/Bouteloua gracilis-Bouteloua curtipendula
- F070AY021NM–Pinus edulis-Juniperus monosperma/Quercus gambelii/Bouteloua curtipendula
- F070AY022NM–Pinus ponderosa-Juniperus scopulorum/Quercus gambelii
- R070AY003NM–Shallow Upland
- R070AY005NM–Shallow Sandstone
- R070AY008NM–Sandstone Breaks
- R070AY009NM–Shale Hills
- R070AY014NM–Hills
- R070AY015NM–Shallow Shale
- R070AY019NM–Shallow Savanna

Correlated Map Unit Components

22706416, 22706461, 22706038, 22706175, 23063362, 23063365, 23062771, 23062772, 23063129, 23063245, 23062937, 23062795, 23062949, 23062952, 23063272, 23063270, 23062778, 23062960, 23062983, 23063176, 23063175, 23063280, 23063146, 23062864, 23062866, 23063163, 23005502, 23005498, 23005560, 23005616, 23005587, 23005632, 23005724, 23005721, 22977136, 22977142, 22977211, 22976551, 22976547, 22976555, 22976698, 22913403, 22913404, 22913420, 22913367, 23191757, 23191785, 23191789, 23191790, 23191793, 23191822, 23191934, 23191984, 23174692, 23174743, 23174847, 23174966, 23175036, 23175035, 23175044, 23175043, 22974658, 22974662, 22974677, 22974679, 22974684, 22974685, 22974690, 22974726, 22974712, 22974711, 22974716, 22974818, 22974838, 22974842, 22974847, 22974848, 22974876, 22974924, 22975018, 22974994, 22975040, 22975034, 22975057, 22980025, 22980316, 22968208, 22968276, 22968271, 22968291,

22968297, 22968389, 22968396, 22968401, 22968468, 22968441, 23186268, 23186272, 23186276, 23187058, 23187061, 23187074, 23187075, 23187917, 23187309, 23187304, 23187916, 23187427, 23187421, 23187474, 23187472, 23186766, 23186762, 23186760, 23186689, 23186725, 23186723, 23186722, 23187678, 23187729, 23187900, 23187896, 23186784, 23187673, 23187756, 23187754, 23187849, 23187851, 23187843, 23187847, 23186295, 23186296, 23187867, 23186310, 23186311, 22980778, 22980779, 22980761, 22980762, 22980765, 22980767, 22980788, 22980789, 22981328, 22981327, 22981397, 22981299, 22981300, 22981415, 22981414, 22652334, 22652336, 22280234, 22280238, 22280072, 22280371, 22280373, 22280375, 22280376, 22280378

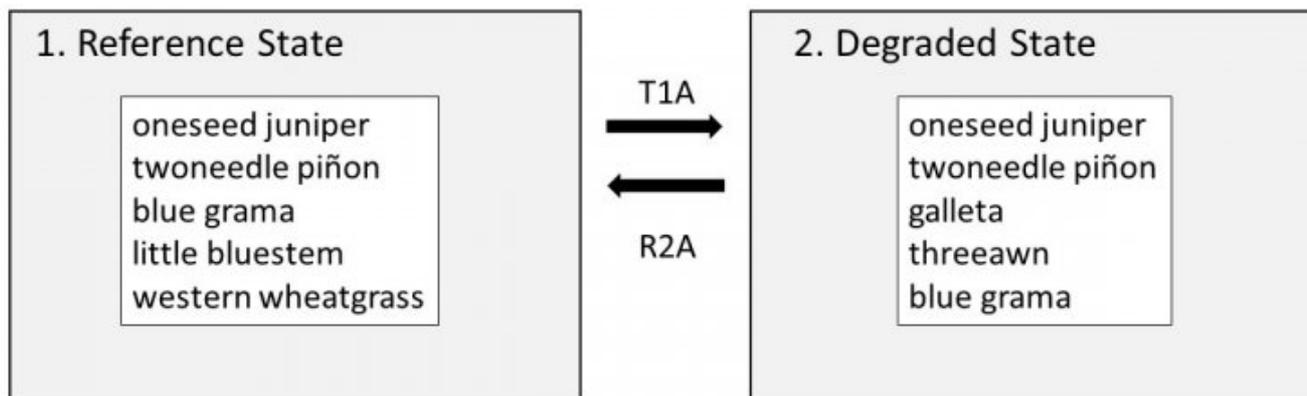
Stage

Provisional

Contributors

Logan Peterson
Curtis Talbot

State and transition model



State 1

Reference State

This state represents relatively late-seral conditions in terms of grazing response. Highly palatable "decreasers" such as western wheatgrass and little bluestem are well-represented.

State 2

Degraded State

This state represents relatively early-seral conditions in terms of grazing response. Highly palatable "decreasers" such as western wheatgrass and little bluestem are either poorly represented or absent. Where soils are derived from either shale and not armored by surface fragments, erosion is quite evident in this state.

Transition T1A

State 1 to 2

This transition represents a prolonged period of season-long grazing providing little rest and recovery for preferred grazed plants during critical growing periods, coupled with high utilization. Drought may accelerate this transition.

Restoration pathway R2A

State 2 to 1

This pathway represents practices which facilitate the recovery of palatable species. A considerable period of prescribed and/ or deferred grazing will likely be necessary, and seeding might also be required. In cases where soils have been eroded, recovery of topsoil will be a long and energy-intensive endeavor.

Citations