

Ecological site group DX035X04AESG06

San Juan River Corridor LRU Subset - Loamy Subgroup

Last updated: 11/01/2022
Accessed: 04/19/2024

Key Characteristics

- San Juan River Corridor. This LRU subset consists of landforms which drain directly into the San Juan River. Elevations are mostly under 1900 meters. Stratigraphy is varied, ranging from the Mancos to the Nacimiento formations. This LRU subset is distinct from the rest of 35.4 in that it provides irrigation water. Thus, upland landforms which contribute significant water are included.
- Sites that occur on "upland", water-shedding landforms. Elevated terraces are included in this group.
- Soils are > 50 cm to lithic or paralithic contact (root-restrictive bedrock).
- Soils lack both significant salinity and sodicity.
- Soils lack one or both of the following at the surface: Strong or violent response to dilute HCl or $\geq 5\%$ calcareous fragments.
- Sites with soils that have particle size classes of loamy or fine loamy.

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 occupies various water-shedding landforms, including elevated terraces and alluvial fans. Water-collecting landforms such as floodplains and drainageways are excluded from the Loamy concept.

Soil features

Soils have particle size classes of loamy or fine-loamy.

Soils do not contain a combination of calcareous fragments and free carbonates at the surface, and lack significant salinity and/or sodicity.

Major Land Resource Area

MLRA 035X
Colorado Plateau

Subclasses

- DX035X03A131–Foothills
- DX035X03E001–Loamy
- R035XB010NM–Cobbly Hills
- R035XB021NM–Loamy Upland 7-10
- R035XB030NM–Sandy Loam Upland 6-10"
- R035XB275AZ–Loamy Fan 6-10" p.z.
- R035XC313AZ–Loamy Upland 10-14" p.z.
- R035XC328AZ–Cobbly Slopes 10-14" p.z.
- R035XY109UT–Desert Loam (Shadscale)
- R035XY414CO–Alkali Flat

Correlated Map Unit Components

22529495, 22960228, 22960271, 22959961, 22959958, 22959990, 22959987, 22959998, 22959983, 22960056,

22960052, 22960046, 22959968, 22960254, 22960063, 22960261, 22960165, 22960006, 22960002, 22960057, 22960058, 22960246, 22959995, 22959994, 22960320, 22960354, 22960367, 22960073, 22960074, 22856582, 22856665, 23435714, 23435760, 23435765, 23435768, 23435799, 23435803, 23435808, 23435785, 23435794, 23435814, 23435822, 23435846, 23435848, 23435858, 23435864, 23435865, 23435878, 23435884, 23435885, 23435887, 23435953, 23435965, 23435987, 23435993, 23184705, 22999731, 22999930, 22999934, 22999941, 22999939, 22999965, 22999975, 22999973

Stage

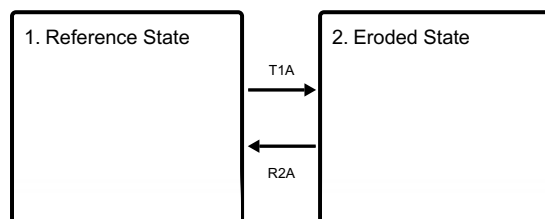
Provisional

Contributors

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State and transition model

Ecosystem states



State 1

Reference State

This state is defined by topsoil that is generally intact. Plant community ranges from grass-dominated to a gras/shrub mix. Some linked ESDs contain community phase data.

Dominant plant species

- oneseed juniper (*Juniperus monosperma*), tree
- rubber rabbitbrush (*Ericameria nauseosa*), shrub
- tree cholla (*Cylindropuntia imbricata*), shrub
- blue grama (*Bouteloua gracilis*), grass
- western wheatgrass (*Pascopyrum smithii*), grass
- James' galleta (*Pleuraphis jamesii*), grass
- threeawn (*Aristida*), grass
- ring muhly (*Muhlenbergia torreyi*), grass

State 2

Eroded State

This state is characterized by significant degradation of topsoils. Plant communities range from shrublands to very sparsely vegetated grasslands.

Characteristics and indicators. Topsoils are significantly truncated. Active erosion is typically evident.

Dominant plant species

- oneseed juniper (*Juniperus monosperma*), tree
- rubber rabbitbrush (*Ericameria nauseosa*), shrub
- tree cholla (*Cylindropuntia imbricata*), shrub
- broom snakeweed (*Gutierrezia sarothrae*), shrub
- James' galleta (*Pleuraphis jamesii*), grass
- threeawn (*Aristida*), grass
- ring muhly (*Muhlenbergia torreyi*), grass

Transition T1A**State 1 to 2**

Prolonged continuous grazing.

Restoration pathway R2A**State 2 to 1**

Prescribed/deferred grazing. Shrub control of some sort may be required.

Citations