

Major Land Resource Area 070B Pecos and Canadian River Basins

Accessed: 06/21/2026

Ecological site group keys

Key to Ecological Site Groups for MLRA 70B

1a. Site is on a water-collecting landform such as a drainageway bottom, swale, floodplain, or playa. ... GX070B01XESG01 –

Run-on

1b. All other sites.

2a. Soils are < 20" (50 cm) to root-restrictive layers. ... GX070B01XESG02 – Shallow Uplands

2b. Soils are ? 20" (50 cm) to root-restrictive layers.

3a. Soils contain ? 15% gypsum either throughout or in subsurface horizons. ... GX070B01XESG03 – Gypsum
Uplands

3b. All other sites.

4a. All soil horizons in the upper 40" (100 cm) have sandy textures (? 50% sand in the fine earth fraction) OR soils are contain ?
35% gravel in the upper 40". ... GX070B01XESG04 – Sandy Uplands

4b. All other sites.

5a. Soils react strongly or violently to dilute HCl at the surface, and react violently in all subsurface horizons. ...
GX070B01XESG05 – Limy Uplands

5b. All other sites. ... GX070B01XESG06 – Clayey Uplands

National Park Service

I. Additional water

A. Subsurface EC >4 - 040XESG10 Saline Bottoms

B. Subsurface EC <4

1 Sand >50% & clay <25% for surface and subsurface - 040XESG13 Sandy Bottoms

2 Sand <50% or clay >25% for surface and subsurface - 040XESG01

II. Uplands

A. Surface SAR >8

1 Elevation - <2500 ft - 040XESG57 Desert Saline Hills

2 Elevation - 3700-4500 ft - 042BESG63 Semi-Desert Grassland Saline Hills

3 Elevation - 4500-6000 ft - 042BESG38 Madrean Woodland Saline Hills

4 Elevation - >6000 ft ... 070BESG64 – Temperate Forest Saline Hills

B. Surface SAR <8

1 Gypsum >5% surface or >10% subsurface

i. Elevation - 4500-6000 ft - 042AESG69 Gypsum Madrean Woodland

ii. Elevation - >6000 ft ... 070BESG70 – Gypsum Temperate Forest

2 Gypsum <5% surface and <10% subsurface

i. Subsurface EC >8 or surface EC >4

a. Elevation - <2500 ft - 040XESG57 Desert Saline Hills

b. Elevation - 3700-4500 ft - 042BESG63 Semi-Desert Grassland Saline Hills

c. Elevation - 4500-6000 ft - 042BESG38 Madrean Woodland Saline Hills

d. Elevation - >6000 ft ... 070BESG64 – Temperate Forest Saline Hills

ii. Subsurface EC <8 and surface EC <4

a. EC >1.5 surface or >2 subsurface

1) Elevation - 3700-4500 ft - 041XESG65 Semi-Desert Grassland Saline Uplands

2) Elevation - 4500-6000 ft - 042BESG66 Madrean Woodland Saline Uplands

3) Elevation - >6000 ft ... 070BESG67 – Temperate Forest Saline Uplands

b. EC <1.5 surface and <2 subsurface

1) Slope >35% & >40% surface rock

a) Elevation - 4500-6000 ft - 038XESG19 Madrean Woodland Breaks

b) Elevation - >6000 ft - 042CESG20 Temperate Forest Breaks

2) Slope <35% or <40% surface rock

a) Depth <30cm

(1) Elevation - <2500 ft - 040XESG61 Very Shallow Desert

(2) Elevation - 3700-4500 ft - 042AESG47 Very Shallow Semi-Desert Grassland

(3) Elevation - 4500-6000 ft - 042AESG48 Very Shallow Madrean Woodland

(4) Elevation - >6000 ft ... 070BESG49 – Very Shallow Temperate Forest

b) Depth: 30-55cm

(1) Elevation - 2500-3700 ft - 040XESG42 Shallow Thornscrub

(2) Elevation - 3700-4500 ft - 042AESG43 Shallow Semi-Desert Grassland

(3) Elevation - 4500-6000 ft - 038XESG44 Shallow Madrean Woodland

(4) Elevation - >6000 ft ... 070BESG45 – Shallow Temperate Forest

c) Depth >55cm

(1) Rock >30% surface or >30% subsurface

(a) Elevation - 3700-4500 ft - 042AESG26 Deep Rocky Semi-Desert Grassland

(b) Elevation - 4500-6000 ft - 042BESG27 Deep Rocky Madrean Woodland

(c) Elevation - >6000 ft ... 070BESG28 – Deep Rocky Temperate Forest

(2) Rock <30% surface or <30% subsurface

(a) Clay >30% surface or >35% subsurface

(1) Elevation - 2500-3700 ft - 040XESG21 Thornscrub Clay Uplands

(2) Elevation - 3700-4500 ft - 041XESG22 Semi-Desert Grassland Clay Uplands

(3) Elevation - 4500-6000 ft - 038XESG23 Madrean Woodland Clay Uplands

- (4) Elevation - >6000 ft - 038XESG24 Temperate Forest Clay Uplands**
- (b) Clay <30% surface or <35% subsurface**
 - (1) Sand >75% or texture is loamy sand or sandier in surface & subsurface**
 - (a) Elevation - 3700-4500 ft - 042BESG41 Semi-Desert Grassland Sandy Uplands**
 - (b) Elevation - 4500-6000 ft - 042BESG68 Madrean Woodland Sandy Uplands**
 - (c) Elevation - >6000 ft ... 070BESG71 – Temperate Forest Sandy Uplands**
 - (2) Sand <75% or texture is sandy loam or finer in surface & subsurface**
 - (a) Clay <20% or texture is sandy loam or sandier in surface**
 - (1) Elevation - 3700-4500 ft - 041XESG35 Semi-Desert Grassland Loamy Uplands**
 - (2) Elevation - 4500-6000 ft - 042BESG36 Madrean Woodland Loamy Uplands**
 - (3) Elevation - >6000 ft ... 070BESG37 – Temperate Forest Loamy Uplands**
 - (b) Clay >20% or texture is finer than sandy loam in surface**
 - (1) Elevation - 3700-4500 ft - 041XESG30 Semi-Desert Grassland Finer Uplands**
 - (2) Elevation - 4500-6000 ft ... 070BESG31 – Madrean Woodland Finer Uplands**
 - (3) Elevation - >6000 ft ... 070BESG32 – Temperate Forest Finer Uplands**