

# Major Land Resource Area 042A

## Trans-Pecos Mountains, Plateaus, and Basins

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### Ecological site group keys

#### MLRA 42A

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##### I. Additional water

A. Perennial water ... 042AESG09 – Riparian

B. Ephemeral water

1 Subsurface EC>4 ... 042AESG10 – Saline Bottoms

2 Subsurface EC<4

i. Sand >50% & clay <25% for surface and subsurface ... 042AESG13 – Sandy Bottoms

ii. Sand <50% or clay >25% for surface and subsurface ... 042AESG01 – Bottoms

##### II. Uplands

A. >75% bedrock outcrop ... 042AESG08 – Outcrops

B. <75% bedrock outcrop

1 Surface SAR>8 ... 042AESG11 – Saline Hills

2 Surface SAR<8

i. Gypsum >5% surface or >10% subsurface ... 042AESG06 – Gypsum

ii. Gypsum <5% surface and <10% subsurface

a. Subsurface EC>8 or surface EC>4 ... 042AESG11 – Saline Hills

b. Subsurface EC<8 & surface EC<4

1) EC>1.5 surface or >2 subsurface ... 042AESG12 – Saline Uplands

2) EC<1.5 surface & <2 subsurface

a) Slope >35% & >40% surface rock ... 042AESG02 – Breaks

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

(1) Depth <30cm ... 042AESG16 – Very Shallow

(2) Depth 30-55 cm ... 042AESG15 – Shallow

(3) Depth >55cm

- (a) Rock >30% surface or >30% subsurface ... 042AESG04 – Deep Rocky
- (b) Rock <30% surface & <30% subsurface
  - (1) Clay >30% surface or >35% subsurface ... 042AESG03 – Clay Uplands
  - (2) Clay <30% surface & <35% subsurface
    - (a) Sand >75% or texture is loamy sand or sandier in surface & subsurface ... 042AESG14 – Sandy Uplands
    - (b) Sand <75% & texture is sandy loam or finer in surface & subsurface
      - (1) Clay <20% or texture is sandy loam or sandier in surface ... 042AESG07 – Loamy Uplands
      - (2) Clay >20% & texture is sandy clay loam or finer in surface ... 042AESG05 – Finer Uplands

## National Park Service

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### I. Additional water

A. Perennial water - 041XESG09

B. Ephemeral water

1 Subsurface EC >4 - 040XESG10 Saline Bottoms

2 Subsurface EC <4

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

ii. Sand <50% or clay >25% for surface and subsurface - 040XESG01 Bottoms

### II. Uplands

A. Surface SAR >8 - 041XESG62 Thornscrub Saline Hills

B. Surface SAR <8

1 Gypsum >5% surface or >10% subsurface

i. Elevation - <2500 ft - 083BESG54 Gypsum Desert

ii. Elevation - 2500-3700 ft ... 042AESG33 – Gypsum Thornscrub

iii. Elevation - 3700-4500 ft - 042BESG55 Gypsum Semi-Desert Grassland

iv. Elevation - 4500-6000 ft ... 042AESG69 – Gypsum Madrean Woodland

2 Gypsum <5% surface or <10% subsurface

- i. Subsurface EC >8 or surface EC >4 - 041XESG62 - Thornscrub Saline Hills
- ii. Subsurface EC <8 and surface EC <4
  - a. EC >1.5 surface or >2 subsurface
    - 1) Elevation - <2500 ft - 040XESG58 Desert Saline Uplands
    - 2) Elevation - 2500-3700 ft - 041XESG39 Thornscrub Saline Uplands
    - 3) Elevation - 3700-4500 ft - 041XESG65 Semi-Desert Grassland Saline Uplands
    - 4) Elevation - 4500-6000 ft - 042BESG66 Madrean Woodland Saline Uplands
  - b. EC <1.5 surface and <2 subsurface
    - 1) Slope >35% & >40% surface rock
      - a) Elevation - 2500-3700 ft - 040XESG17 Thornscrub Breaks
      - b) Elevation - 3700-4500 ft - 038XESG18 Semi-Desert Grassland Breaks
      - c) Elevation - 4500-6000 ft - 038XESG19 Madrean Woodland Breaks
    - 2) Slope <35% or <40% surface rock
      - a) Depth <30cm
        - (1) Elevation - <2500 ft - 040XESG61 Very Shallow Desert
        - (2) Elevation - 2500-3700 ft - 040XESG46 Very Shallow Thornscrub
        - (3) Elevation - 3700-4500 ft ... 042AESG47 – Very Shallow Semi-Desert Grassland
        - (4) Elevation - 4500-6000 ft ... 042AESG48 – Very Shallow Madrean Woodland
        - (5) Elevation - >6000 ft - 070BESG49 Very Shallow Temperate Forest
      - b) Depth: 30-55cm
        - (1) Elevation - <2500 ft - 040XESG60 Shallow Desert
        - (2) Elevation - 2500-3700 ft - 040XESG42 Shallow Thornscrub
        - (3) Elevation - 3700-4500 ft ... 042AESG43 – Shallow Semi-Desert Grassland
        - (4) Elevation - 4500-6000 ft - 038XESG44 Shallow Madrean Woodland
        - (5) Elevation - >6000 ft - 070BESG45 Shallow Temperate Forest
      - c) Depth >55cm

- (1) Rock >30% surface or >30% subsurface
  - (a) Elevation - 2500-3700 ft - 040XESG25 Deep Rocky Thornscrub
  - (b) Elevation - 3700-4500 ft ... 042AESG26 – Deep Rocky Semi-Desert Grassland
  - (c) Elevation - 4500-6000 ft - 042BESG27 Deep Rocky Madrean Woodland
  - (d) Elevation - >6000 ft - 070BESG28 Deep Rocky Temperate Forest
- (2) Rock <30% surface and <30% subsurface
  - (a) Clay >30% surface or >35% subsurface
    - (1) Elevation - <2500 ft - 040XESG51 Desert Clay Uplands
    - (2) Elevation - 2500-3700 ft - 040XESG21 Thornscrub Clay Uplands
    - (3) Elevation - 3700-4500 ft - 041XESG22 Semi-Desert Grassland Clay Uplands
    - (4) Elevation - 4500-6000 ft - 038XESG23 Madrean Woodland Clay Uplands
    - (5) Elevation - >6000 ft - 038XESG24 Temperate Forest Clay Uplands
  - (b) Clay <30% surface and <35% subsurface
    - (1) Sand >75% or texture is loamy sand or sandier in surface & subsurface
      - (a) Elevation - 2500-3700 ft - 042CESG40 Thornscrub Sandy Uplands
      - (b) Elevation - 3700-4500 ft - 042BESG41 Semi-Desert Grassland Sandy Uplands
      - (c) Elevation - 4500-6000 ft - 042BESG68 Madrean Woodland 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 - 2500-3700 ft - 040XESG34 Thornscrub Loamy Uplands
        - (2) Elevation - 3700-4500 ft - 041XESG35 Semi-Desert Grassland Loamy Uplands
        - (3) Elevation - 4500-6000 ft - 042BESG36

Madrean Woodland Loamy Uplands

(b) Clay >20% or texture is finer than sandy loam in surface

(1) Elevation - 2500-3700 ft ... 042AESG29 –  
Thornscrub Finer Uplands

(2) Elevation - 3700-4500 ft - 041XESG30 Semi-  
Desert Grassland Finer Uplands

(3) Elevation - 4500-6000 ft - 070BESG31  
Madrean Woodland Finer Uplands