Major Land Resource Area 041X
Madrean Archipelago

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Ecological site group keys

16-20” PZ within Land Resource Unit 41.AZ1, Mexican Oak-Pine Forest and Oak Savannah

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I. Flooded (bottom position, flooded from the valley-side or over-bank)
  A. Soils with a perennial high water-table (3-15 ft.)
    1 Soils sandy and gravelly with redox features
    2 Soils loamy to clayey with redox features
  B. Soils with seasonal (summer) water table (3-15 ft.)
    1 Soils sandy loam to clay loam
  C. Soils without a high water table (3-15 ft)
    1 Soils sandy
    2 Soils sandy loam to clay loam
    3 Soils clayey (vertic)
II. Not Flooded (upland position, receives only precipitation)
  A. Slopes less than 15%
    1 Soils calcareous throughout
      a. Soils shallow (less than 20 inches deep)
        1 Soils with a lime cemented hardpan
      b. Soils moderately deep to deep (30 to 60 inches)
        1 Soils with an argillic horizon
    2 Soils non calcareous in upper 10 inches
      a. Soils shallow (less than 20 inches deep)
        1 Soils underlain by granite, schist, rhyolite bedrock
      b. Soils moderately deep to deep (30 to 60 inches)
        1 Soils without an argillic horizon
          a. Soils loamy fine sand to sandy loam
        2 Soils with an argillic horizon
          a. Soils with sandy loam surface 4 in. or thicker
          b. Soils with sandy loam surface less than 4 in.
          c. Soils with clay loam surface (not vertic)
          d. Soils with a clayey surface (vertic)
  B. Slopes greater than 15%
    1 Soils shallow (less than 20 inches deep)
      a. Soils calcareous throughout
        1 Soils over limestone parent materials
      b. Soils non calcareous
        1 Soils over granite, schist, gneiss, rhyolite (acid igneous)

2 Soils over basalt, andesite, welded tuff (basic igneous)

2 Soils moderately deep and deep (30 to 60 inches)

a. Soils calcareous throughout

1 Soils dark colored in the surface 5 inches (10YR, 4/2)

b. Soils non calcareous in the upper 10 inches

1 Soils sandy loam to clay loam

2 Soils clayey

3 Add criteria

Talbot-Nauman Key

I. Additional water

A. Perennial water ... 041XESG09 – Riparian

B. Ephemeral water

1 Subsurface EC>4 ... 041XESG10 – Saline Bottoms

2 Subsurface EC <4

i. Sand >50% & Clay <25% for surface and subsurface ... 041XESG13 – Sandy Bottoms

ii. Sand <50% & Clay >25% for surface and subsurface ... 041XESG01 – Bottoms

II. Uplands

A. >75% bedrock outcrop ... 041XESG08 – Outcrops

B. <75% bedrock outcrop

1 Surface SAR >8, or Subsurface EC >8, or Surface EC >4 ... 041XESG11 – Saline Hills

2 Surface SAR <8, or Subsurface EC <8, or Surface EC <4

i. Gypsum >5% surface or >10% subsurface ... 041XESG06 – Gypsum

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

a. EC >1.5 surface or >2 subsurface ... 041XESG12 – Saline Uplands

b. EC <1.5 surface or <2 subsurface

1) slope >35% & >40% surface rock ... 041XESG02 – Breaks

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

a) Depth <30cm ... 041XESG16 – Very Shallow

b) depth: 30-55cm ... 041XESG15 – Shallow

c) depth >55cm

(1) Rock >30% surface or >30% subsurface ... 041XESG04 – Deep Rocky

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

(a) Clay >30% surface or >35% subsurface ... 041XESG03 – Clay Uplands

(b) Clay <30% surface and <35% subsurface

(1) sand >75% or texture is Loamy Sand or sandier in surface & subsurface ... 041XESG14 – Sandy Uplands

(2) sand <75% or texture is Loamy Fine Sand or finer in surface & subsurface

(a) Clay <20% or texture is Sandy Loam or sandier in surface ... 041XESG07 – Loamy Uplands

(b) Clay >20% or texture is Fine Sandy Loam or finer in surface ... 041XESG05 – Finer Uplands