

# Major Land Resource Area 035X

## Colorado Plateau

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### Ecological site group keys

#### 35X02 Western Colorado Plateau LRU

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##### I. North Slope of the Mogollon Rim (A)

A. Site parent material is limestone or dolomite, or soil is loamy.

1 Site soils are ustic aridic or within a 10-14" precipitation zone.

i. Site is and/or located in a wash. ... DX035X02AESG01 – North Slope of the Mogollon Rim - Ustic Aridic - Limestone or Loamy Bottoms

ii. Site is and/or located in an upland with slopes <15%. ... DX035X02AESG02 – North Slope of the Mogollon Rim - Ustic Aridic - Limestone or Loamy Upland

iii. Site is and/or located on a cliff with slopes >50%. ... DX035X02AESG03 – North Slope of the Mogollon Rim - Ustic Aridic - Limestone or Loamy Cliffs

2 Site soils are aridic ustic or within a 14-18" precipitation zone.

i. Site is and/or located in an upland with slopes <15%.

3 Site soils are typic aridic or within a 6-10" precipitation zone.

i. Site is and/or located in an upland with slopes <15%. ... DX035X02AESG06 – North Slope of the Mogollon Rim - Aridic Ustic - Limestone or Loamy Upland

B. Site parent material is sandstone or soil is a sandy loam.

1 Site soils are ustic aridic or within a 10-14" precipitation zone.

i. Site is and/or located in an upland with slopes <15%. ... DX035X02AESG07 – North Slope of the Mogollon Rim - Ustic Aridic - Sandstone or Sandy Loam Upland

2 Site soils are aridic ustic or within a 14-18" precipitation zone.

i. Site is and/or located in an upland with slopes <15%. ... DX035X02AESG08 – North Slope of the Mogollon Rim - Aridic Ustic - Sandstone or Sandy Loam Upland.

C. Soil is basalt, shale, or clayey.

1 Site soils are ustic aridic or within a 10-14" precipitation zone.

i. Site is and/or located in a wash. ... DX035X02AESG09 – North Slope of the Mogollon Rim - Ustic Aridic - Clayey Wash

ii. Site is and/or located in an upland with slopes <15%. ... DX035X02AESG10 – North Slope of the Mogollon Rim - Ustic Aridic - Clayey Upland

2 Site soils are aridic ustic or within a 14-18" precipitation zone.

i. Site is and/or located in an upland with slopes <15%.

##### II. Coconino Plateau (B)

A. Site parent material is limestone or dolomite, or soil is loamy.

1 Site soils are ustic aridic or within a 10-14" precipitation zone.

i. Site is and/or located in a wash. ... DX035X02BESG01 – Coconino Plateau - Ustic Aridic - Limestone or Loamy Bottoms

ii. Site is and/or located in an upland with slopes <15%. ... DX035X02BESG02 – Coconino Plateau - Ustic Aridic - Limestone or Loamy Upland

iii. Site is and/or located on a cliff with slopes >50%. ... DX035X02BESG03 – Coconino Plateau - Ustic

Aridic - Limestone or Loamy Cliffs

2 Site soils are aridic ustic or within a 14-18" precipitation zone.

i. Site is and/or located in an upland with slopes <15%. ... DX035X02BESG04 – Coconino Plateau - Aridic Ustic - Limestone or Loamy Upland

B. Soil at site is sandy.

1 Site is and/or located in an upland with slopes <15%. ... DX035X02BESG06 – Coconino Plateau - Ustic Aridic - Sandy Upland

C. Soil at site is Clayey.

1 Site soils are ustic aridic or within a 10-14" precipitation zone.

i. Site is and/or located in a wash. ... DX035X02BESG07 – Coconino Plateau - Ustic Aridic - Clayey Wash

ii. Site is and/or located in an upland with slopes <15%. ... DX035X02BESG08 – Coconino Plateau - Ustic Aridic - Clayey Upland

2 Site soils are aridic ustic or within a 14-18" precipitation zone.

i. Site is and/or located in an upland with slopes <15%. ... DX035X02BESG09 – Coconino Plateau - Aridic Ustic - Clayey Upland

D. Site parent material is volcanic.

1 Site is and/or located on a hill with slopes >15%. ... DX035X02BESG10 – Coconino Plateau - Ustic Aridic - Volcanic Hills

E. Site parent material is sandstone or soil is a sandy loam.

1 Site is and/or located in an upland with slopes <15%. ... DX035X02BESG11 – Coconino Plateau - Ustic Aridic - Sandstone or Sandy Loam Upland

III. Coconino Transition (C)

A. Site parent material is limestone or dolomite, or soil is loamy.

1 Site soils are ustic aridic or within a 10-14" precipitation zone.

i. Site is and/or located in a wash. ... DX035X02CESG01 – Coconino Transition - Ustic Aridic - Limestone or Loamy Wash

ii. Site is and/or located in an upland with slopes <15%. ... DX035X02CESG02 – Coconino Transition - Ustic Aridic - Limestone or Loamy Upland

iii. Site is and/or located on a hill with slopes >15%. ... DX035X02CESG03 – Coconino Transition - Ustic Aridic - Limestone or Loamy Hills

2 Site soils are aridic ustic or within a 13-17" precipitation zone.

i. Site is and/or located in an upland with slopes <15%. ... DX035X02CESG04 – Coconino Transition - Aridic Ustic - Limestone or Loamy Upland

ii. Site is and/or located on a hill with slopes >15%. ... DX035X02CESG05 – Coconino Transition - Aridic Ustic - Limestone or Loamy Hills

iii. Site is and/or located on a cliff with slopes >50%. ... DX035X02CESG06 – Coconino Transition - Aridic Ustic - Limestone or Loamy Cliffs

3 Site soils are aridic ustic or within a 14-18" precipitation zone.

i. Site is and/or located in a wash. ... DX035X02CESG07 – Coconino Transition - Aridic Ustic - Limestone or Loamy Bottoms

ii. Site is and/or located in an upland with slopes <15%. ... DX035X02CESG08 – Coconino Transition - Aridic Ustic - Limestone or Loamy Upland

iii. Site is and/or located on a hill with slopes >15%. ... DX035X02CESG09 – Coconino Transition - Aridic Ustic - Limestone or Loamy Hills

iv. Site is and/or located on a cliff with slopes >50%. ... DX035X02CESG10 – Coconino Transition - Aridic Ustic - Limestone or Loamy Cliffs

B. Soil at site is sandy.

1 Site soils are ustic aridic or within a 10-14" precipitation zone.

i. Site is and/or located in an upland with slopes <15%. ... DX035X02CESG11 – Coconino Transition - Ustic Aridic - Sandstone or Sandy Upland

2 Site soils are aridic ustic or within a 14-18" precipitation zone.

i. Site is and/or located in an upland with slopes <15%. ... DX035X02CESG12 – Coconino Transition - Aridic Ustic - Sandstone or Sandy Upland

C. Soil at site is basalt or clayey.

1 Site soils are ustic aridic or within a 10-14" precipitation zone.

i. Site is and/or located in a wash. ... DX035X02CESG13 – Coconino Transition - Ustic Aridic - Clayey Wash

ii. Site is and/or located in an upland with slopes <15%. ... DX035X02CESG14 – Coconino Transition - Ustic Aridic - Clayey Upland

iii. Site is and/or located on a hill with slopes >15%. ... DX035X02CESG15 – Coconino Transition - Ustic Aridic - Basalt Hills

2 Site soils are aridic ustic or within a 14-18" precipitation zone.

i. Site is and/or located in an upland with slopes <15%. ... DX035X02CESG16 – Coconino Transition - Aridic Ustic - Basalt or Clayey Upland

IV. Grand Canyon (D)

A. Site parent material is limestone or dolomite, or soil is loamy.

1 Site soils are typic aridic or within a 6-10" precipitation zone.

i. Site is and/or located in an upland with slopes <15%. ... DX035X02DESG01 – Grand Canyon - Typic Aridic - Limestone or Loamy Upland

ii. Slopes exceed 15% ... DX035X02DESG20 – Grand Canyon - Typic Aridic - Limestone Hills

2 Site soils are ustic aridic or within a 10-14" precipitation zone.

i. Site is and/or located in an upland with slopes <15%. ... DX035X02DESG02 – Grand Canyon - Ustic Aridic - Limestone or Loamy Upland

ii. Site is and/or located on a hill with slopes >15%. ... DX035X02DESG03 – Grand Canyon - Ustic Aridic - Limestone or Loamy Hills

3 Site soils are aridic ustic or within a 13-17" precipitation zone.

i. Site is and/or located in an upland with slopes <15%. ... DX035X02DESG04 – Grand Canyon - Aridic Ustic - Limestone or Loamy Upland

ii. Site is and/or located on a hill with slopes >15%. ... DX035X02DESG05 – Grand Canyon - Aridic Ustic - Limestone or Loamy Hills

iii. Site is and/or located in an upland with slopes <15%. ... DX035X02DESG06 – Grand Canyon - Aridic Ustic - Limestone or Loamy Cliffs

4 Site soils are within a 17-25" precipitation zone.

i. Site is and/or located in an upland with slopes <15%. ... DX035X02DESG07 – Grand Canyon - Typic Ustic - Limestone or Loamy Upland

B. Site parent material is volcanic or clayey.

1 Site soils are ustic aridic or within a 10-14" precipitation zone.

i. Site is and/or located in a wash. ... DX035X02DESG08 – Grand Canyon - Ustic Aridic - Clayey Bottoms

ii. Site is and/or located in an upland with slopes <15%. ... DX035X02DESG09 – Grand Canyon - Ustic Aridic - Volcanic or Clayey Upland

iii. Site is and/or located on a hill with slopes >15%. ... DX035X02DESG10 – Grand Canyon - Ustic Aridic - Volcanic or Clayey Hills

2 [Criteria]

i. Site is and/or located in an upland with slopes <15%. ... DX035X02DESG11 – Grand Canyon - Aridic Ustic - Volcanic or Clayey Upland

3 site is typic aridic or precipitation is within 6 to 10 inch range

- i. site is volcanic or clayey, typic aridic, and slopes exceed 15% ... DX035X02DESG18 – Grand Canyon - Typic Aridic - Volcanic or Clayey Hills
- ii. Upland, slopes are  $\leq$  15% ... DX035X02DESG24 – Grand Canyon - Typic Aridic - Volcanic or Clayey Upland

C. Site parent material is sandstone or soil is a sandy loam.

1 Site soils are typic aridic or within a 6-10" precipitation zone.

- i. Site is and/or located in an upland with slopes  $<$ 15%. ... DX035X02DESG12 – Grand Canyon - Typic Aridic - Sandstone or Sandy Loam Upland
- ii. Site is and/or located on a hill with slopes  $>$ 15%. ... DX035X02DESG13 – Grand Canyon - Typic Aridic - Sandstone or Sandy Loam Hills

2 Site soils are ustic aridic or within a 10-14" precipitation zone.

- i. Site is and/or located in an upland with slopes  $<$ 15%. ... DX035X02DESG14 – Grand Canyon - Ustic Aridic - Sandstone or Sandy Loam Upland

3 Site soils are aridic ustic or within a 13-17" precipitation zone.

- i. Site is and/or located in an upland with slopes  $<$ 15%. ... DX035X02DESG15 – Grand Canyon - Aridic Ustic - Sandstone or Sandy Loam Upland

D. Sandy

1 Ustic Aridic

- i. Sandy bottoms ustic aridic ... DX035X02DESG16 – Grand Canyon - Ustic Aridic - Sandy Bottoms

2 Typic Aridic

- i. typic aridic sandy bottoms ... DX035X02DESG17 – Grand Canyon - Typic Aridic - Sandy Bottoms

E. Limy

1 uplands slopes  $\leq$  15%

- i. typic aridic limy uplands ... DX035X02DESG21 – Grand Canyon - Typic Aridic - Limy Upland

2 Hillslopes  $\geq$  15% typic aridic

- i. [Criteria] ... DX035X02DESG22 – Grand Canyon - Typic Aridic - Limy Hills

F. Gypsum

1 Gypsum Uplands, Slopes  $\leq$  15%

- i. Gypsum Uplands, slopes  $\leq$  15%, typic aridic ... DX035X02DESG23 – Grand Canyon - Typic Aridic - Gypsic Upland

2 Gypsum Hills, Slopes  $\geq$  15%

- i. Gypsum Hills, slopes  $\geq$  15%, typic aridic ... DX035X02DESG19 – Grand Canyon - Typic Aridic - Gypsic Hills

V. Arizona Strip (E)

A. Site soils are gypsiferous

1 Soils are typic aridic, or precipitation is within the range of 7 to 11 inches.

- i. Site is and/or located in an upland with slopes  $<$ 15%. ... DX035X02EESG01 – Arizona Strip - Typic Aridic - Gypsum Upland
- ii. Site is and/or located in an upland with slopes  $>$ 15%. ... DX035X02EESG02 – Arizona Strip - Typic Aridic - Gypsum Hills

2 Soils are ustic aridic, or precipitation is within the range of 10 to 14 inches.

- i. Site is and/or located in an upland with slopes  $<$ 15%. ... DX035X02EESG03 – Arizona Strip - Ustic Aridic - Gypsum Upland
- ii. Site is and/or located in an upland with slopes  $>$ 15%. ... DX035X02EESG04 – Arizona Strip - Ustic Aridic - Gypsum Hills

B. Site is sandy.

1 Soils are typic aridic, or precipitation is within the range of 6 to 10 inches.

- i. Site is and/or located in an upland with slopes  $<$ 15%. ... DX035X02EESG05 – Arizona Strip - Typic

Aridic - Sandy Upland

2 Soils are Ustic Aridic, or precipitation is within a range of 10 to 14 inches

- i. Site is and/or located in an upland with slopes <15%. ... DX035X02EESG06 – Arizona Strip - Ustic Aridic - Sandy Upland

C. Site parent material is sandstone or sandy loam.

1 Soil are typic aridic, or precipitation is within the range of 7 to 11 inches.

- i. Site is and/or located in an upland with slopes <15%. ... DX035X02EESG07 – Arizona Strip - Typic Aridic - Sandstone or Sandy Loam Upland

2 Soils are ustic aridic, or precipitation is within the range of 10 to 14 inches.

- i. Site is and/or located in an upland with slopes <15%. ... DX035X02EESG08 – Arizona Strip - Ustic Aridic - Sandstone or Sandy Loam Upland

3 moisture is aridic ustic or precipitation is 13 to 17 inches annually

- i. upland, slopes are  $\leq 15\%$  ... DX035X02EESG23 – Arizona Strip - Aridic Ustic - Sandstone or Sandy Loam Upland

D. Site parent material is basalt or clayey

1 Soils are typic aridic, or precipitation is within the range of 7 to 11 inches.

- i. Site is and/or located in a wash. ... DX035X02EESG09 – Arizona Strip - Typic Aridic - Clay Loam Bottoms

- ii. Site is and/or located in an upland with slopes <15%. ... DX035X02EESG10 – Arizona Strip - Typic Aridic - Basalt or Clay Loam Upland

2 Soils are ustic aridic or precipitation is within the range of 10 to 14 inches.

- i. Site is and/or located in an upland with slopes <15%. ... DX035X02EESG11 – Arizona Strip - Ustic Aridic - Basalt or Clay Loam Upland

3 Soils are ustic aridic, or precipitation is within the range of 13 to 17 inches.

- i. Site is and/or located in an upland with slopes <15%. ... DX035X02EESG13 – Arizona Strip - Aridic Ustic - Clayey or Clay Loam Upland
- ii. Site is and/or located in an upland with slopes >15%. ... DX035X02EESG14 – Arizona Strip - Aridic Ustic - Basalt Slopes

E. Site parent material is limestone or loamy.

1 Soils are typic aridic, or precipitation is within the range of 7 to 11 inches.

- i. Site is and/or located in an upland with slopes <15%. ... DX035X02EESG15 – Arizona Strip - Typic Aridic - Limestone or Loamy Upland
- ii. Site is and/or located in an upland with slopes >15%. ... DX035X02EESG16 – Arizona Strip - Typic Aridic - Limestone Slopes

2 Soils are ustic aridic, or precipitation is within the range of 10 to 14 inches.

- i. Site is and/or located in a wash. ... DX035X02EESG17 – Arizona Strip - Ustic Aridic - Limestone or Loamy Bottoms
- ii. Site is and/or located in an upland with slopes <15%. ... DX035X02EESG18 – Arizona Strip - Ustic Aridic - Limestone or Loamy Upland Blackbrush
- iii. Site is and/or located in an upland with slopes >15%. ... DX035X02EESG19 – Arizona Strip - Ustic Aridic - Limestone or Loamy Slopes

3 Soils are aridic ustic, or precipitation is within the range of 13 to 17 inches.

- i. Site is and/or located in an upland with slopes <15%. ... DX035X02EESG20 – Arizona Strip - Aridic Ustic - Limestone or Loamy Upland
- ii. Site is and/or located in an upland with slopes >15%. ... DX035X02EESG21 – Arizona Strip - Aridic Ustic - Limestone or Loamy Slopes

F. Blackbrush (*coleogyne ramosissima*) is present on site

1 Parent Material is not basalt. ... Dx035X02EESG22 – Arizona Strip- Ustic Aridic- Limestone or loamy upland- Blackbrush

2 Parent material is basalt. ... DX035X02EESG12 – Arizona Strip - Ustic Aridic - Basalt or Clay Loam Slopes- Blackbrush

#### VI. Kaibab Plateau (F)

##### A. Site soils are gypsiferous.

1 Soils are ustic aridic or precipitation is within the range of 10 to 14 inches.

i. Site is and/or located in an upland with slopes >15%. ... DX035X02FESG01 – Kaibab Plateau - Ustic Aridic - Gypsum Hills

##### B. Site parent material is shale or clayey.

1 Soils are ustic aridic, or precipitation is within the range of 10 to 14 inches.

i. Site is and/or located in an upland with slopes <15%. ... DX035X02FESG02 – Kaibab Plateau - Ustic Aridic - Clay Loam or Shale Upland

##### C. Site parent material is limestone or loamy.

1 Soils are ustic aridic, or precipitation is within the range of 10 to 14 inches.

i. Site is and/or located in a wash. ... DX035X02FESG03 – Kaibab Plateau - Ustic Aridic - Limestone or Loamy Bottoms

ii. Site is and/or located in an upland with slopes <15%. ... DX035X02FESG04 – Kaibab Plateau - Ustic Aridic - Limestone or Loamy Upland

iii. Site is and/or located in an upland with slopes >15%. ... DX035X02FESG05 – Kaibab Plateau - Ustic Aridic - Limestone or Loamy Slopes

2 Soils are aridic ustic, or precipitation is within the range of 13 to 17 inches.

i. Site is and/or located in an upland with slopes <15%. ... DX035X02FESG06 – Kaibab Plateau - Aridic Ustic - Limestone or Loamy Upland

ii. Site is and/or located in an upland with slopes >15%. ... DX035X02FESG07 – Kaibab Plateau - Aridic Ustic - Limestone or Loamy Slopes

3 Soils are typic ustic, or precipitation is within the range of 17 to 25 inches.

i. Site is and/or located in an upland with slopes <15%. ... DX035X02FESG08 – Kaibab Plateau - Xeric Udic - Limestone or Loamy Upland

4 Soils are ustic udic, or precipitation is within the range of 25 to 33 inches.

i. Site is and/or located in an upland with slopes <15%. ... DX035X02FESG09 – Kaibab Plateau - Typic Udic - Limestone or Loamy Upland

#### VII. Marble Canyon (G)

##### A. Soil at site is colluvial.

1 Site soils are typic aridic or within a 6-10" precipitation zone.

i. Site is and/or located in an upland with slopes <15%. ... DX035X02GESG01 – Marble Canyon - Typic Aridic - Upland Colluvial

##### B. Soil at site is saline.

1 Site soils are typic aridic or within a 6-10" precipitation zone.

i. Site is and/or located in an upland with slopes <15%. ... DX035X02GESG02 – Marble Canyon - Typic Aridic - Saline Upland

##### E. Soil at site is sandy.

1 Site soils are typic aridic or within a 6-10" precipitation zone.

i. Site is and/or located in an upland with slopes <15%. ... DX035X02GESG06 – Marble Canyon - Typic Aridic - Sandy Upland

2 Site soils are within a 7-11" precipitation zone.

i. Site is and/or located in an upland with slopes <15%. ... DX035X02GESG08 – Marble Canyon - Typic Aridic - Sandy Upland 7-11" p.z.

##### F. Soil at site is sedimentary or loamy.

1 Site soils are typic aridic or within a 6-10" precipitation zone.

i. Site is and/or located in an upland with slopes <15%. ... DX035X02GESG10 – Marble Canyon - Typic Aridic - Limestone or Loamy Upland

ii. Site is and/or located on a hill with slopes >15%. ... DX035X02GESG11 – Marble Canyon - Typic Aridic - Limestone or Loamy Cliffs

2 Site soils are within a 7-11" precipitation zone.

i. Site is and/or located in an upland with slopes <15%. ... DX035X02GESG13 – Marble Canyon - Typic Aridic - Limestone or Loamy Upland 7-11" p.z.

H. Site parent material is sandstone or soil is a sandy loam.

1 Site soils are typic aridic or within a 6-10" precipitation zone.

i. Site is and/or located in an upland with slopes <15%. ... DX035X02GESG20 – Marble Canyon - Typic Aridic - Sandstone or Sandy Loam Upland

2 Site soils are within a 7-11" precipitation zone.

i. Site is and/or located in an upland with slopes <15%. ... DX035X02GESG21 – Marble Canyon - Typic Aridic - Sandstone or Sandy Loam Upland 7-11" p.z.

F. site is gypsic

1 site soils are typic aridic or within 6 to 10 inch precipitation range

i. site slopes are upland, slopes  $\leq$  15% ... DX035X02GESG04 – Marble Canyon - Typic Aridic - Gypsum Upland

ii. site slopes are hills, slopes are  $\geq$  15% ... DX035X02GESG05 – Marble Canyon - Typic Aridic - Gypsum Hills

G. shale

1 soils are in the typic aridic or within the 6 to 10 inch annual precipitation range

i. upland, slopes are  $\leq$  15% ... DX035X02GESG18 – Marble Canyon - Typic Aridic - Shale or Clayey Upland

ii. bottoms ... DX035X02GESG19 – Marble Canyon - Typic Aridic - Shale or Clayey Bottoms