

# Major Land Resource Area 030X

## Mojave Basin and Range

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### Ecological site keys

#### LRU 30-2 AZ

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#### I. Bottom position, plant community receives additional moisture from run-on

##### A. Soil has loamy textures

- 1 Soil not gypsiferous ... R030XB231AZ – Loamy Wash 6-9" p.z.
- 2 Soil gypsiferous throughout the profile ... R030XB225AZ – Loamy Wash 6-9" p.z. Gypsic
- 3 Soils is saline and sodic ... R030XB229AZ – Loamy Swale 6-9" p.z. Sodic

##### B. Soil has sandy textures

- 2 No seasonal water table ... R030XB218AZ – Sandy Wash 6-9" p.z.

#### II. Upland position, plant community receives moisture only from precipitation

##### A. Slopes generally less than 15 percent

- 1 Soils are shallow ... R030XB214AZ – Limy Upland 6-9" p.z.
- 2 Soils are moderately deep or deeper
  - i. Soils calcareous throughout
    - a. Gypsum Crystals visible
      - 1) Gypsum crystals sand and gravel sized ... R030XB213AZ – Gypsum Upland 6-9" p.z. Alkaline
      - 2) Gypsum crystals small, difficult to discern ... R030XB224AZ – Gypsum Fan 6-9" p.z.
    - b. Gypsum crystals not visible
      - 1) Soil skeletal ... R030XB206AZ – Cobbly Limy Upland 6-9" p.z. Deep
      - 2) Soil non-skeletal ... R030XB211AZ – Limy Fan 6-9" p.z.
    - ii. Soils non-calcareous at surface
      - a. Soils calcareous in subsurface ... R030XB205AZ – Sandy Loam Upland 6-10" p.z. Limy Subsurface, Gravelly
      - b. Soils non-calcarous throughout
        - 1) Soil texture clay loam, clay, cobbly clay loam ... R030XB227AZ – Clay Loam Upland 6-9" p.z.
        - 2) Soil surface texture sandy loam to loam ... R030XB226AZ – Sandy Loam Upland 6-9" p.z. Fine
        - 3) Soil surface fine sand, eolian ... R030XB221AZ – Sandy Upland 6-9" p.z.

##### B. Slopes generally greater than 15 percent

- 1 Soils moderately deep or deeper
  - i. Basalt cobble soil cover ... R030XB203AZ – Basalt Slopes 6-9" p.z.
  - ii. Subsurface also very cobbly and gravelly sandy loam to clay loam ... R030XB204AZ – Breaks 6-9" p.z.
  - iii. Soils not skeletal ... R030XB212AZ – Limy Slopes 6-9" p.z.
- 2 Soils very shallow, shallow
  - i. Slopes less than 65%
    - a. Soils over hard gypsum
      - 1) Soils moderately alkaline ... R030XB222AZ – Gypsum Hills 6-9" p.z. Alkaline

- 2) Soils non-alkaline ... R030XB208AZ – Gypsum Hills 6-9" p.z.
- b. Soil over rock parent material
  - 1) Soils over igneous or metamorphic parent material
    - a) Soil very shallow to andesite bedrock ... R030XB201AZ – Andesite Hills 6-9" p.z. Coarse
    - b) Soil shallow to basalt bedrock ... R030XB202AZ – Basalt Hills 6-9" p.z.
    - c) Soil very shallow to shallow to hard granite or gneiss bedrock ... R030XB207AZ – Granitic Hills 6-9" p.z.
  - 2) Soils over sedimentary parent material ... R030XB210AZ – Limestone Hills 6-9" p.z.
- ii. Slopes abrupt, greater than 65%
  - a. Basalt cobbles and stones cover Moenkopi formation mudstones. Usually occurs as an escarpment, but may be in hill form. Soil is shallow to very deep ... R030XB203AZ – Basalt Slopes 6-9" p.z.
  - b. Soil very shallow to andesite bedrock. Slope range 20 to 70 percent ... R030XB220AZ – Andesite Hills 6-9" p.z.