

Major Land Resource Area 030X

Mojave Basin and Range

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Ecological site keys

LRU 30-2 AZ

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.