

Major Land Resource Area 027X

Fallon-Lovelock Area

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Ecological site keys

Hills and Fans

I. Soil moisture regime is typic aridic.

A. Soil depth is less than 50 cm (19 inches) to a root restrictive layer.

1 Soil has granite parent material. ... R027XY047NV – ERODED GRANITIC SLOPE

2 Parent material not as above.

i. Soil formed in lacustrine deposits ... R027XY093NV – STONY TERRACE 4-8 P.Z.

ii. Soil not as above.

a. Site found on a dominantly south aspect. ... R027XY017NV – SOUTH SLOPE 4-8 P.Z.

b. Site not found on a south aspect.

1) Site occurs on summits. ... R027XY015NV – STONY LOAM 4-8 P.Z.

2) Landscape position not as above.

a) Soil lacks a subsurface clay accumulation (no argillic horizon). ... R027XY027NV – BARREN GRAVELLY SLOPE 4-8 P.Z.

b) Soils have subsurface clay accumulation.

(1) Soils are shallow to a duripan. ... R027XY018NV – GRAVELLY LOAM 4-8 P.Z.

(2) Soil lacks a duripan. ... R027XY019NV – STONY SLOPE 4-8 P.Z.

B. Soil is not as above, greater than 50 cm (19 inches) to a root restrictive layer.

1 Soil is somewhat excessively drained or excessively drained.

i. Site occurs on dunes. ... R027XY023NV – DUNES 4-8 P.Z.

ii. Site does not occur on dunes.

a. Site occurs on sandsheets. ... R027XY009NV – SANDY 5-8 P.Z.

b. Site occurs on drainageways with occasional flooding. ... R027XY022NV – VALLEY WASH

2 Soils are well drained.

i. Soil is characterized by an argillic horizon (increase subsurface clay accumulation) and is loamy sand to loam on the soil surface. ... R027XY013NV – LOAMY 4-8 P.Z.

ii. Soil is not as above and is effervescent throughout.

a. Soil is violently effervescent throughout with a silt loam surface texture. ... R027XY014NV – COARSE SILTY 4-8 P.Z.

b. Effervescence is strongest in the Bk horizon. The pH is greater than 9.0 in the Bk. Soil has a gravelly sandy loam surface texture. ... R027XY050NV – COARSE GRAVELLY LOAM 4-8 P.Z.

II. Soil moisture is aridic trending xeric.

A. Soils were formed in alluvium.

1 Soil is somewhat excessively drained or excessively drained.

i. Site occurs on dunes and is sandy throughout. ... R027XY053NV – DUNES 8-10 P.Z.

ii. Site occurs in ephemeral drainageways. ... R027XY029NV – GRAVELLY FAN 8-10 P.Z.

2 Soil is well drained.

- i. Soil parent material is granitic. ... R027XY067NV – GRANITIC LOAM 8-10 P.Z.
- ii. Parent material is not granitic.
 - a. Elevation is less than 5,000 feet and occurs on inset fans. ... R027XY008NV – DROUGHTY LOAM 8-10 P.Z.
 - b. Elevation is greater than 5,000 feet and occurs on inset fans. ... R027XY045NV – SANDY 8-10 P.Z.

B. Soils were formed in residuum and/or colluvium.

1 Parent material is volcanic or mixed.

- i. Site is found predominately on south aspects. ... R027XY051NV – SOUTH SLOPE 8-10 P.Z.
- ii. Site is not found on south aspects.
 - a. Soil profile has an abrupt boundary to a Bt horizon (abrupt increase clay accumulation). ... R027XY020NV – SHALLOW CLAYPAN 8-10 P.Z.
 - b. Soils lack an abrupt boundary with clay accumulation.
 - 1) Soil is loamy and rocky with less than 35 percent clay. ... R027XY007NV – LOAMY SLOPE 8-10 P.Z.
 - 2) Soils are clayey and rocky with more than 35 percent clay.
 - a) Soils have carbonate accumulation on the bedrock contact. This soil/site supports little sagebrush (*Artemisia arbuscula* ssp. *longicaulis*). ... R027XY070NV – DROUGHTY CLAYPAN 8-10 P.Z.
 - b) Soil profile lacks carbonate accumulation on the bedrock contact. Soil/site supports black sagebrush (*Artemisia nova*). ... R027XY032NV – SHALLOW CALCAREOUS LOAM 10-12 P.Z.

2 Soils formed in granitic parent material.

- i. Soil is characterized by a mollic epipedon. ... R027XY079NV – GRAVELLY CLAYPAN 8-10 P.Z.
- ii. Soil is characterized by an ochric epipedon.
 - a. Soil has less than 18 percent clay and is on greater than 15 percent slopes...R027XY063NV
 - b. Soil has greater than 18 percent clay. ... R027XY068NV – GRANITIC CLAYPAN 8-10 P.Z.