

Major Land Resource Area 190X Stratovolcanoes of the Mariana Islands

Accessed: 12/18/2025

Ecological site keys

MLRA 190 ES Key

I. ^{1 2} Depth to water shallow (0-10 in.); aquic, soils somewhat poorly drained ...

QX190X01X501 – Aquic

II. Depth to water not as above; not aquic, soils moderately well to well drained

A. Soil depth class is very shallow (1 to 10 in.) ... QX190X01X001 – Very Shallow

B. Soil depth class is moderately deep (30 to 40 in), deep (40 to 60) or very deep (60 in or greater)

1 Soil surface texture is loamy sand ... QX190X01X502 – Loamy Sand

2 Soil surface texture is sandy loam to loam ... QX190X01X503 – Sandy Loam or Loam

3 Soil surface texture is silt loam ... QX190X01X504 – Silt Loam

¹ Notes from David Clausnitzer: The PESs under II. in the key can all be differentiated by available water holding capacity: Very Shallow (R-001) has AWC of 1 inch (2 cm) due to shallowness and gravel content. Loamy Sand (F-502) has AWC of 3 inches (8 cm) associated with surface texture of ashy loamy sand over subsoil of ashy sand. Sandy Loam or Loam (F-503) has AWC of 4 to 6 inches (9 to 16 cm) associated with surface texture of ashy sandy loam over subsurface of ashy loam over ashy loamy sand or surface texture of ashy loam over subsurface of ashy loamy sand over sand. Silt Loam (F-504) has AWC of 10 to 14 inches (25 to 35 cm) associated with surface texture of ashy silt loam over subsurface of ashy loam, or surface texture of ashy silt loam over subsurface with coarser textures, or one soil with surface texture of ashy sandy loam over subsurface of ashy loam over ashy loamy sand (same as some soils in F-503) but a deep phase of that soil. The surface textures of the soils

² John Proctor incorporated edits suggested by Sarah Quistberg to MLRA 190 Key drafted by David. Those changes are reflected in the current key in EDIT.