

Pedon 1

The ? series consists of moderately deep to hardpan, well drained soils that formed in lacustrine sediments and alluvium weathered from basalt, andesite and pyroclastic rocks. ? soils are on lake terraces. Slopes are 0 to 15 percent. The mean annual precipitation is about 12 inches and the mean annual temperature is about 47 degrees F.

TAXONOMIC CLASS:

TYPICAL PEDON: ? --on a southwest facing slope of 2 percent under cover of big sagebrush, basin wildrye, Nevada bluegrass and cheatgrass at 4,235 feet elevation. (When described on August 19, 1980, the soil was dry throughout.)

_____ --0 to 3 inches; grayish brown (10YR 5/2) loam, very dark grayish brown (10YR 3/2) moist; moderate medium granular structure; slightly hard, friable, slightly sticky and slightly plastic; many very fine and fine roots; common very fine interstitial and tubular pores; neutral (pH 7.0); clear smooth boundary. (2 to 5 inches thick).

_____ --3 to 12 inches; grayish brown (10YR 5/2) loam, very dark grayish brown (10YR 3/2) moist; moderate medium subangular blocky structure; slightly hard, friable, slightly sticky and plastic; many very fine and fine, few medium and coarse roots; common very fine interstitial and tubular pores; neutral (pH 7.3); clear smooth boundary. (7 to 11 inches thick).

_____ --12 to 21 inches; light brownish gray (10YR 6/2) loam, dark grayish brown (10YR 4/2) moist; moderate medium subangular blocky structure; slightly hard, friable, slightly sticky and plastic; common very fine and fine, few medium roots; common very fine and fine interstitial and tubular pores; mildly alkaline (pH 7.8); clear smooth boundary. (0 to 9 inches thick).

_____ --21 to 34 inches; pale brown (10YR 6/3) sandy clay loam, brown (10YR 4/3) moist; moderate fine and medium angular blocky structure; hard, firm, sticky and plastic; few very fine and fine roots; few very fine and fine interstitial and tubular pores; few moderately thick and many thin clay films on ped faces and lining pores; moderately alkaline (pH 8.0); abrupt wavy boundary. (6 to 17 inches thick).

_____ --34 to 42 inches; light gray (10YR 7/2) strongly cemented duripan, brown (10YR 5/3) moist; moderate medium, coarse and very coarse platy structure; some plates have a thin continuous opal laminar cap; very hard, very firm and brittle; roots are horizontal and matted on top of this horizon; few very fine tubular pores; slightly effervescent; moderately alkaline (pH 8.0); clear wavy boundary. (3 to 10 inches thick).

_____ --42 to 55 inches; light gray (10YR 7/2) strongly cemented duripan, brown (10YR 5/3) moist; strong very coarse platy structure; some plates have thin opal laminar caps; extremely hard, very firm and brittle; few very fine tubular pores; strong effervescent; accumulations of lime in seams and thin layers of lime coat top of plates; moderately alkaline (pH 8.0); clear wavy boundary. (2 to 15 inches thick).

_____ --55 to 60 inches; light gray (10YR 7/2) sandy loam, brown (10YR 5/3) moist; massive; soft, very friable, nonsticky and nonplastic; common very fine interstitial pores; moderately alkaline (pH 8.0).

TYPE LOCATION: Siskiyou County, California; about 200 feet west of U.S. Highway 97, about 350 feet west and 2,150 feet south of the northeast corner of section 11, T.47 N., R.1 W.

GEOGRAPHIC SETTING: ? soils are on lake terraces. Slopes are 0 to 15 percent. The soils formed in lacustrine sediments and alluvium weathered from basalt, andesite and pyroclastic rocks. Elevations are 3,700 to 5,000 feet. The climate is semi-arid with warm dry summers and cool moist winters. The average annual precipitation is about 9 to 16 inches. Snowfall is 20 to 30 inches. The average annual temperature is about 45 to 52 degrees F. The average January temperature is about 27 to 29 degrees F. and the average July temperature is about 65 to 68 degrees F. The frost-free season is about 50 to 130 days.

DRAINAGE AND PERMEABILITY: Well drained, slow or medium runoff; moderately slow permeability.