

## Pedon 9

This series consists of well drained soils that formed in alluvium predominantly from limestone with minor amounts of volcanic tuffs. The soils are on fan piedmont remnants. Slopes are 2 to 15 percent. The mean annual precipitation is about 8 inches. The mean annual temperature is about 58 degrees F.

TYPICAL PEDON: Pedon 9 gravelly very fine sandy loam, rangeland. (Colors are for dry soil unless otherwise noted.) The soil surface is partially covered with 23 percent pebbles and 2 percent cobbles.

\_\_\_\_\_--0 to 3 inches; brown (7.5YR 5/4) gravelly very fine sandy loam, dark brown (7.5YR 4/4) moist; weak thin platy structure; soft, very friable, nonsticky and slightly plastic; many very fine roots; many very fine irregular and few very fine tubular pores; 20 percent pebbles; slightly effervescent; moderately alkaline (pH 8.2); abrupt wavy boundary. (2 to 4 inches thick)

\_\_\_\_\_--3 to 9 inches; light brown (7.5YR 6/4) gravelly very fine sandy loam, brown (7.5YR 5/4) moist; weak fine subangular blocky structure; soft, very friable, slightly sticky and plastic; many very fine and few medium roots; many very fine and fine and few medium tubular pores; common thin clay films on faces of peds and lining pores; many thin lime coats on undersides of rock fragments; 20 percent pebbles; strongly effervescent; moderately alkaline (pH 8.4); gradual smooth boundary. (5 to 8 inches thick)

\_\_\_\_\_--9 to 15 inches; light brown (7.5YR 6/4) gravelly very fine sandy loam, brown (7.5YR 5/4) moist; moderate fine subangular blocky structure; soft, very friable, sticky and plastic; common very fine and fine and few medium roots; common very fine and fine and few medium tubular pores; common thin clay films coating ped faces and pores; many thin lime coats and pendants on vertical and undersides of rock fragments; common fine irregularly shaped lime filaments and seams; 25 percent pebbles and 5 percent cobbles; violently effervescent; moderately alkaline (pH 8.4); clear smooth boundary. (4 to 8 inches thick)

\_\_\_\_\_--15 to 19 inches; light brown (7.5YR 6/4) gravelly sandy clay loam, brown (7.5YR 5/4) moist; moderate fine and medium subangular blocky structure; slightly hard, friable, sticky and plastic; common very fine and fine and few medium roots; common very fine and fine and medium tubular pores; many thin clay films on faces of peds, lining pores and bridging mineral grains; many thick lime coats and pendants on vertical and undersides of rock fragments; many medium irregularly shaped lime filaments and seams; 20 percent pebbles and 10 percent cobbles; violently effervescent; moderately alkaline (pH 8.4); abrupt smooth boundary. (3 to 6 inches thick)

\_\_\_\_\_--19 to 60 inches; white (10YR 8/2) indurated petrocalcic hardpan, very pale brown (10YR 7/3) moist; massive; extremely hard; 1/4 to 1 inch continuous carbonate laminae in upper part; violently effervescent.

TYPE LOCATION: Southeastern Lincoln County, Nevada; Approximately 5 miles northwest of Davidson Peak and 350 feet west and 750 feet south of the projected northeast corner of section 26, T.11 S, R.68 E; and 37 degrees, 57 minutes and 21 seconds north latitude and 114 degrees, 20 minutes and 43 seconds west longitude.

GEOGRAPHIC SETTING: These soils are on fan piedmont remnants. The exposed petrocalcic horizon is as thick as 20 feet in some pedons. These soils formed in alluvium predominantly from limestone and minor amounts of volcanic tuffs. Slopes are 2 to 15 percent. Elevations are 3500 to 4500 feet. The climate is semiarid with cool, moist winters and hot, intermittently moist summers. The mean annual precipitation is 5 to 8 inches. The mean annual temperature is 57 to 62 degrees F., and the frost-free season is 190 to 210 days.

DRAINAGE AND PERMEABILITY: Well drained; medium runoff; moderate permeability.

USE AND VEGETATION: Rangeland and wildlife habitat. The present vegetation is mainly blackbrush, creosotebush, yucca, Nevada ephedra, big galleta, rabbitbrush and desert needlegrass.

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