

**Pedon 16** This Pedon consists of very deep, well drained, moderately rapidly permeable soils that formed in alluvium from igneous and sedimentary rocks. These soils are on alluvial flats and fan remnants and have slopes of 0 to 15 percent. The mean annual air temperature is about 48 degrees F., and the average annual precipitation is about 10 inches.

\_\_\_\_\_ --0 to 5 inches; pale brown (10YR 6/3) sandy loam, brown (10YR 4/3) moist; moderate medium platy structure; slightly hard, friable, slightly sticky and slightly plastic; common coarse, medium, and fine roots; common medium, fine and very fine pores; strongly effervescent, carbonates are disseminated; slightly alkaline (pH 7.8); clear smooth boundary. (3 to 16 inches thick)

\_\_\_\_\_ --5 to 11 inches; yellowish brown (10YR 5/4) loam, dark yellowish brown (10YR 4/4) moist; weak medium subangular blocky structure parting to weak fine and very fine subangular blocky; slightly hard, friable, slightly sticky and slightly plastic; common coarse, many fine and very fine roots; common medium, fine and very fine pores; strongly effervescent, carbonates are disseminated; moderately alkaline (pH 8.0); clear wavy boundary. (0 to 8 inches thick)

\_\_\_\_\_ --11 to 26 inches; pink (7.5YR 7/4) loam, brown (7.5YR 4/4) moist; massive; hard, firm, slightly sticky and slightly plastic; common medium, fine and very fine roots; common medium, fine and very fine pores; strongly effervescent, carbonates are disseminated and occur in few fine flecks; moderately alkaline (pH 8.4); clear wavy boundary. (12 to 33 inches, combined Bk horizons)

\_\_\_\_\_ --26 to 33 inches; light brown (7.5YR 6/4) sandy loam, brown (7.5YR 5/4) moist; massive; slightly hard, friable, nonsticky and nonplastic; common fine and very fine roots; many medium, common fine and very fine pores; strongly effervescent, carbonates are disseminated; moderately alkaline (pH 8.4); clear wavy boundary.

\_\_\_\_\_ --33 to 55 inches; light yellowish brown (10YR 6/4) fine sandy loam, dark yellowish brown (10YR 4/4) moist; massive; soft, very friable, nonsticky and nonplastic; few fine and very fine roots; common medium, fine and very fine pores; 10 percent gravel; slightly effervescent, carbonates are disseminated and coat gravel; moderately alkaline (pH 8.2); clear wavy boundary. (9 to 24 inches thick)

\_\_\_\_\_ --55 to 60 inches; brown (10YR 5/3) gravelly coarse sand, brown (10YR 4/3) moist; single grain; loose, nonsticky and nonplastic; few fine and very fine roots; many medium, few fine and very fine pores; 20 percent gravel; moderately alkaline (pH 8.4).

**TYPE LOCATION:** Iron County, Utah; about 2.5 miles southeast of Beryl Junction, about 50 feet south and 2,000 feet west of the east 1/4 corner of sec. 9, T. 36 S., R. 16 W.

**RANGE IN CHARACTERISTICS:** The mean annual soil temperature is 47 to 54 degrees F. and the mean summer soil temperature is 64 to 70 degrees F.

**GEOGRAPHIC SETTING:** These soils are on alluvial flats, lake plains and fan remnants at elevations of 2,300 to 6,300 feet. Slopes are 0 to 15 percent. The soils formed in deep alluvial sediments derived from igneous and sedimentary parent rocks. The climate is semiarid continental. Mean annual temperature is 45 to 52 degrees F., mean summer temperature is 65 to 72 degrees F., and the average annual precipitation is 8 to 14 inches. The freeze-free period is 100 to 150 days.

**DRAINAGE AND PERMEABILITY:** Well drained; slow or medium runoff; moderate or moderately rapid permeability.

**USE AND VEGETATION:** Used mainly for range, but small areas are cultivated. Native plants are mainly Douglas rabbitbrush, Wyoming big sagebrush, snakeweed, Indian ricegrass, sand dropseed, and bottlebrush squirreltail.