C--54 to 72 inches; light yellowish brown (10YR 6/4) gravelly sandy loam; massive; very friable; about 50 percent pebbles of feldspar; few light and dark colored flakes of mica; 1 percent pebbles high in dark colored minerals; moderately acid.

TYPE LOCATION: Lancaster County, South Carolina; 2 miles northeast of Taxahaw, 400 yards west of Lynches River along road 37, on eastern side slope of a low-lying ridge.

RANGE IN CHARACTERISTICS: The solum thickness is 40 to more than 60 inches. The soil is strongly acid to slightly acid in the A and B horizons and strongly acid or moderately acid in the C horizon. Content of coarse fragments, dominantly 2 to 10 mm in size, is 20 to 50 percent in the A horizon and 35 to 50 percent in the B horizon. In some pedons, stones or boulders make up as much as 2 percent of the coarse fragments on the surface and throughout the solum. Flakes of mica range from none to common throughout the profile.

The A horizon has hue of 5YR to 10YR, value of 3 to 5, and chroma of 2 to 4. Where the value is less than 3.5, the horizon is less than 6 inches thick. It is gravelly loamy sand, or gravelly sandy loam. Some pedons have an E or AB horizon with value ranging to 7 and chroma ranging to 8. In these pedons, the total thickness of the A horizon is 8 to 15 inches.

The Bt horizon commonly has hue of 2.5YR to 7.5YR but ranges to 2.5Y in some pedons, value of 4 to 6, and chroma of 4 to 8. It commonly is gravelly sandy clay loam but ranges to gravelly loam in some pedons. Silt content of the particle-size control section is 10 to 25 percent.

The BC horizon has colors like the Bt horizon. Some pedons have mottles in shades of red, brown, or yellow. It is gravelly sandy clay loam, gravelly loam, or gravelly sandy loam.

The C horizon has colors like the BC horizon. Texture is variable with as much as 90 percent saprolite.

COMPETING SERIES: There are no other known series in this family. Cecil, Chestatee, Hartsells, Linker, Louisburg, Madison, Pacolet, Rion, Saffell, and Wateree are similar series in other families. Cecil, Chestatee, Hartsells, Linker, Louisburg, Madison, Pacolet, Rion, and Wateree soils have less than 35 percent coarse fragments in the particle-size control section. Saffell soils have siliceous mineralogy.

GEOGRAPHIC SETTING: Lockhart soils are on rolling to irregular slopes and narrow ridges that have slopes most commonly of 6 to 25 percent, but range from 2 to 40 percent. The soil formed in residuum weathered from porphyritic granite. The average annual precipitation is about 47 inches, the average air temperature is about 61 degrees and the freeze-free season averages about 205 days.