

SOIL SERIES DESCRIPTION

Sultan silt loam

Mapping Symbol: Su

The Sultan series consists of moderately well-drained soils that formed in alluvium under grass and hardwoods in the major stream valleys. Slopes are 0 to 2%, annual precipitation is 35 to 50 inches, and the frost-free season ranges from 150 to 200 days.

This gently undulating soil is on bottom land with elevation ranging from sea level to 85 feet.

Typical Profile:

Depth from Surface:

0 to 48 Inches: Grayish to yellowish-brown silt loam

48 to 72 Inches: Mottled yellowish-brown, light olive-brown, grayish-brown, and olive-gray stratified silty clay loam, silt loam, very fine sandy loam, and medium sand

Permeability:

Moderate

Rooting Depth:

60 inches +

Depth to Seasonal High Water Table:

2 to 3 feet

Available Water Holding Capacity:

High

Runoff Potential:

Slow

Erosion and Slippage Hazard:

Slight

Stream Overflow Hazard:

Severe

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Use and Management:

Primary uses are for pasture and row crops.

Pasture forage yields are 5.0 tons/acre/year.

Douglas-fir, Western Red Cedar, Western Hemlock, Red Alder, and Bigleaf Maple are important tree species. These soils have severe limitations for forestry use because of plant competition.

These soils have severe limitations on recreational and engineering uses due to their flood hazard, low shear strength, and high water table.