



United States  
Department of  
Agriculture

# Soil Health - Bulk Density One-Third Bar







Puerto Rico

US Virgin Islands

0 5 10 20 30 40 Miles

## Legend

(Surface Layer), {DCP, >}, [g/cm<sup>3</sup>]

-   $\leq 0.68$
-   $> 0.68$  AND  $\leq 1.23$
-   $> 1.23$  AND  $\leq 1.35$
-   $> 1.35$  AND  $\leq 1.48$
-   $> 1.48$  AND  $\leq 1.6$
-  Not rated or not available

## Summary

Bulk density indicates the density of the soil and is expressed in grams per cubic centimeter (g/cc) of soil material. Bulk density is one of several soil properties frequently used as a measure of soil health (Volchko et al., 2014) and as an indicator of soil compaction and root restriction. It reflects the soil's capacity to provide structural support, water and solute movement, and soil aeration (Arshad et al., 1996). Bulk density, one-third bar is the oven-dry weight of the soil material less than 2 millimeters in size per unit volume of soil at a water tension of 1/3 bar (33 kPa).

