Aspects of Incorporating Use-dependent Data into Soil Survey. (S05-grossman084411-Poster)

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Abstract:

Use-dependant properties are those that can be changed by land use and management. Changes in soil properties that result from use and management are more evident at the near surface. We discuss field procedures for making near-surface measurements and present ideas for the inclusion of use-dependent data with the current Soil Survey database, which is primarily use-invariant. Generally, when making near-surface measurements, the soil is prewetted. Several excavation methods suitable for sampling fragile soil for bulk density determination are described. A morphology index that is based on soil structure, rupture resistance, crusts, and surface-connected macropores is presented. Steady-ponded infiltration rates are related to the estimation of the soil hydrologic group. Strategies are given to combine measured use-dependent data with the estimated use-invariant Soil Survey database. One consideration is the soil depth through which use-dependent data should be applied.

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