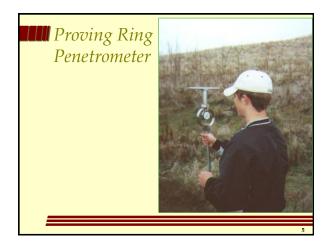
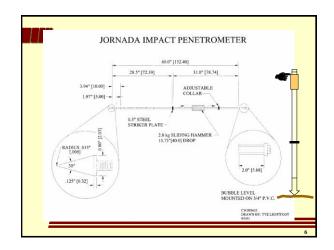


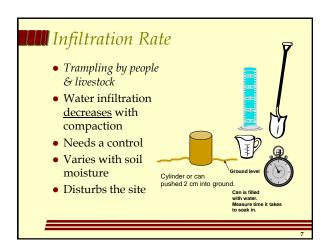
IIII Bulk Density

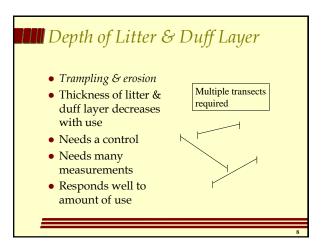
- Human Activity Monitored: Soil Compaction caused by Trampling by people & livestock
- Bulk density increases with use
- Must be compared with a control
- Difficult to measure in the field

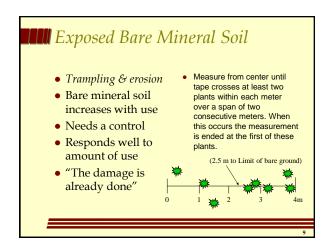
Penetration Resistance (Penetrometer) Trampling by people & livestock Penetration resistance increases with use Needs a control Varies with stony soils and soil moisture



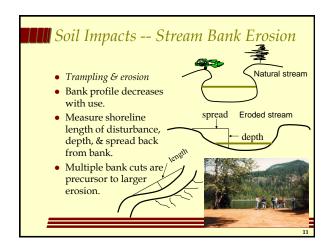


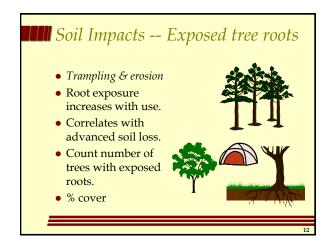


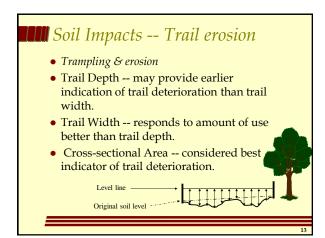


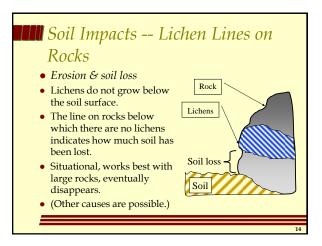












Soil Impacts – Smoke Scars on Cliffs & Overhangs

- Accretion & loss of lichens & moss
- Soot, tars & creosote
- Vegetative material killed
- Extremely slow to recover
- Photographic record



Cryptogramic Soil Crust or Biologic Soil Crust

Cryptogramic Soil Crust in Deserts

Cryptogamic crust is a hard soil crust dominated by a plant community of algae, lichens, or mosses. Prevents erosion & fixes nitrogen.

- % ground cover
- % disturbed crust
- Needs a control
- "May be too late..."

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