Management of Eroded Soils for Enhancement of Productivity and Environmental Quality. (S06-golabi003554-Oral)

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Abstract:

In this study we are investigating the effect of cropping rotation, organic matter amendment and soil surface cover management on soil restoration and productivity of eroded soils. The environmental effects of conservation practices on soil and water quality will be also assessed in this study. Twelve field plots (25 X 18ft2) have been set up at the Inarajan experiment station in Southern Guam for this project. In addition to tillage treatments (Reduced and Conventional tillage) corn and sunnhem are being planted for crop rotation. Compost is applied as surface mulch under vegetable plant (tomato) as a separate treatment. Control plots however are conventionally tilled and corn seeds are planted for productivity comparison and soil quality evaluation. Currently the study plots are being monitored for crop performance. Soil and plant samples are being taken for analysis and the final result of the experiment will be presented at the ASA annual meeting in November of 2002.

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