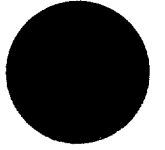


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Notes on Plowing Study. Dr. Gilbert was sent the technical notes describing the study and the results.

Notes: Post plowing 1/18 2011 notes recorded on  
pre-plowing values.

<u>Sandy North Section</u>	<u>Orange South Section</u>
Factors of 30, 16	4, 5

1. Need tight control on plowing technique to achieve desired and uniform (consistent) type of mixing and turning.
2. The layering of overturned soil raises sampling design questions. Need to know what the layering effect is if want to sample the different layers. Sampling different layers may be important if roots are limited to certain layers. If <sup>we</sup> sample from top through all layers then need to adequately mix that column of soil before subsampling.
3. Sampling will need to take into account the pattern of contamination left by plowing operation.
4. Are soils being measured for particle size distribution, organic matter content, cation exchange capacity, pH, and available plant nutrients?

## Plowing Study (notes from M. Barnes)

- 1). Hot spots (25 to 40% of surface values before plowing) exist after plowing <sup>30 cm depth</sup>
- 2). Tech. notes may not be finished by time of our visit to Enewetak. Rough drafts are in files on Enewetak
- 3). Tech note 9.0 that describes preparatory sampling (before plowing) down to 140 cm may be finished by that time.

REPOSITORY PNNL  
COLLECTION Marshall Islands  
BOX No. 5686  
FOLDER Miscellaneous Information

DOCUMENT DOES NOT CONTAIN ECI

Reviewed by R. Bennett Date 5/1/97