



SOIL TEST REPORT FOR:			ADDITIONAL COPY TO:	
John Jones Harmony Lane Smithville PA 11111			Sam Cook Hilltop Forest Enterprises Smithville PA 11111	
Lab ID	CUSTOMER ID	DATE RECEIVED	DATE COMPLETE	COUNTY
<b>S00-00003</b>	For-224	02/15/2001	02/20/2001	Out Of State

### Al Stress Test Analytical Report

#### Results\* (dry weight basis)

Calcium (Ca) (mg/kg)	Aluminum (Al) (mg/kg)	Ca:Al Ratio (Molar)
89.50	14.98	3.95

\*0.01 M SrCl<sub>2</sub> extract  
1:1 Soil:Extract Ratio

#### Comments

The molar ratio of calcium (Ca) to aluminum (Al) as indicated by the test results is greater than 1.0. There is a relatively small risk that aluminum in the soil is at toxic levels. However, seedlings of certain very sensitive species (sugar maple, honey locust, aspen) may still be at risk. Where sugar maple and aspen are to be regenerated with seedlings, a ratio of at least 3.0 is recommended.

The table below lists common eastern forest trees according to their general sensitivity to aluminum. If the species of interest to you is not listed, no information is available for that species. This table is subject to revision as new research information becomes available.

#### Relatively Al Sensitive

Honey locust  
Sugar maple  
Northern red oak  
Quaking Aspen  
White spruce  
Red spruce  
Black oak

#### Relatively Al Insensitive

Chestnut oak  
Norway spruce  
Black cherry  
Black birch  
Striped maple  
White pine  
Red pine  
Short leaf pine  
Pitch pine  
American Beech  
Japanese larch

