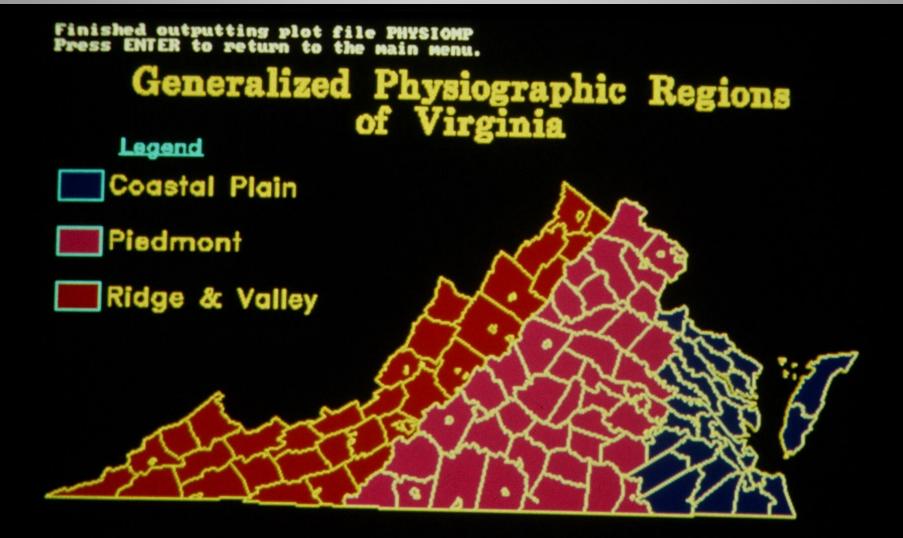
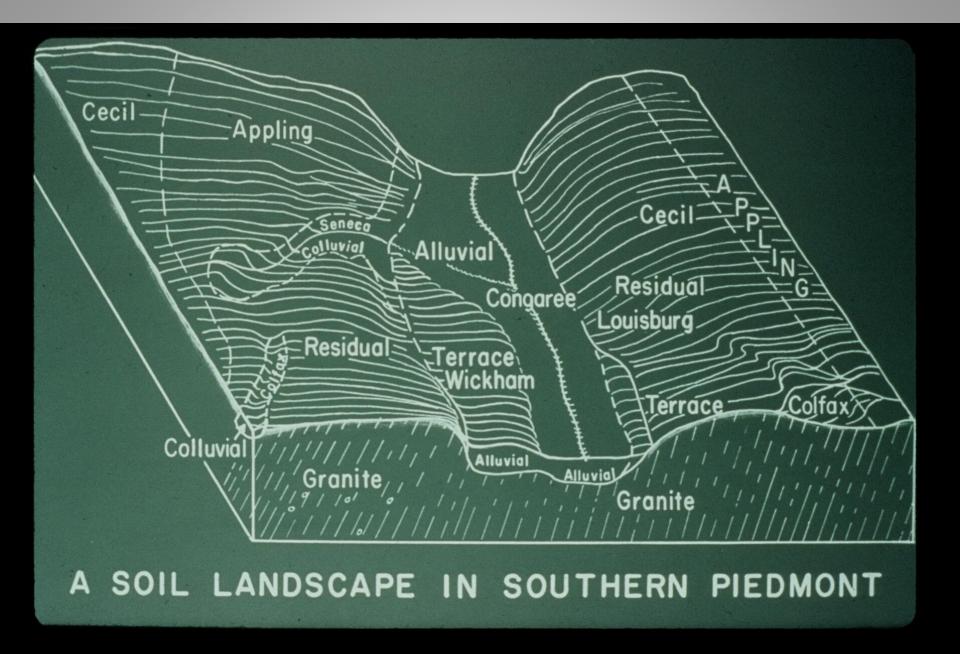
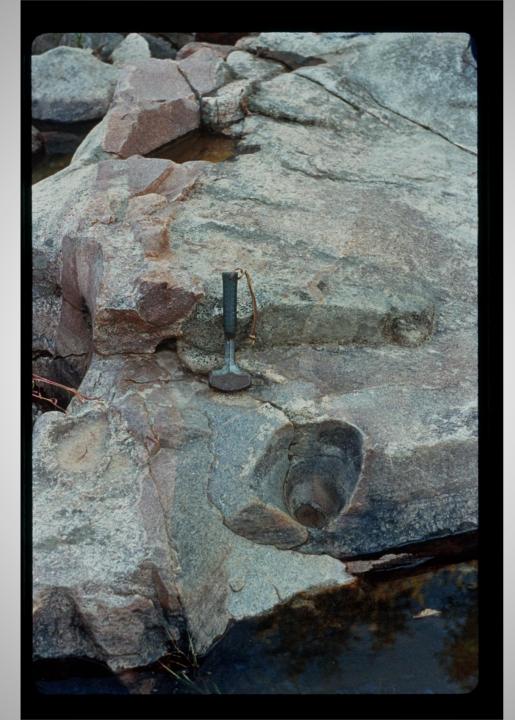
## Chapters 3 & 4 - Soils and Fertilizers

Jay F. Conta Virginia Tech - Soil Scientist (ret.)











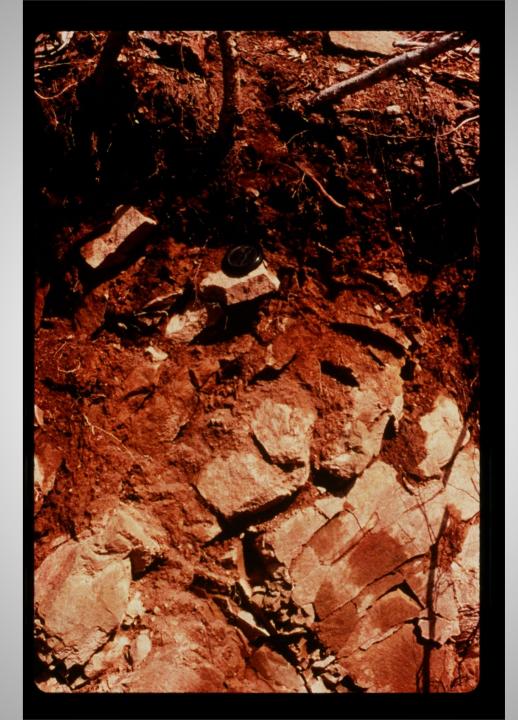
















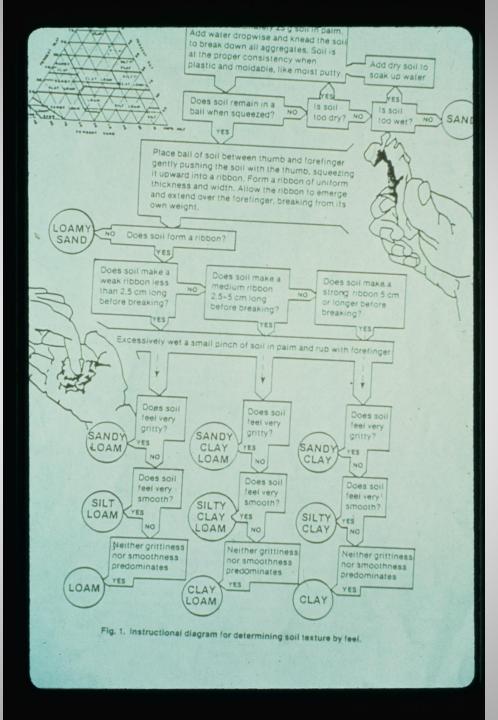














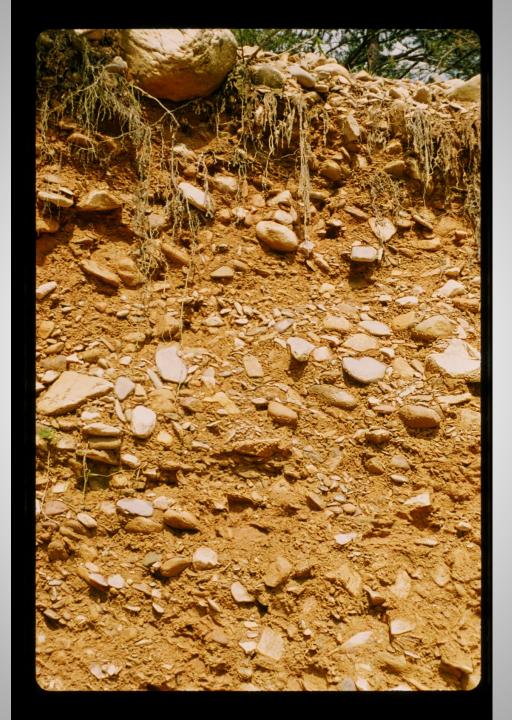






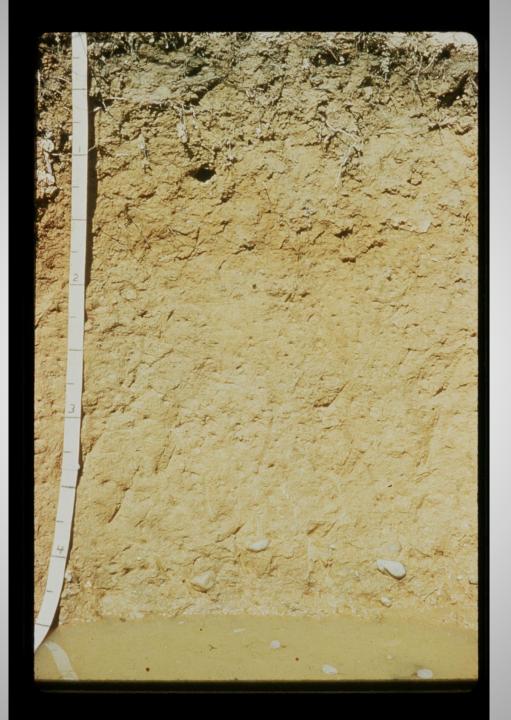




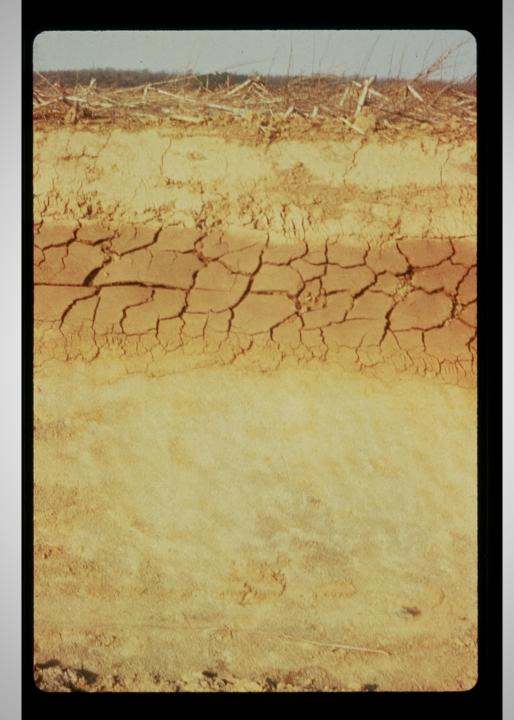




























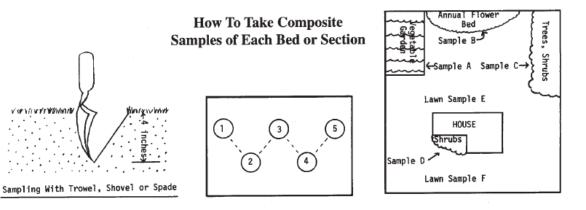
## Soil Testing

- Will provide information about
  - pH
  - P and K, Ca and Mg, some micros
- Will provide recommendations about
  - lime applications
  - fertilizer types and rates
- Recommended every two to four years

### **Accurate Soil Testing**

- Requires a representative sample
- Sample from 10
- Sample to 4-6 i
- Mix soil togeth
- Place 1 cup of sample box
- Send to Soil Tes







# Soil Test Box and Form

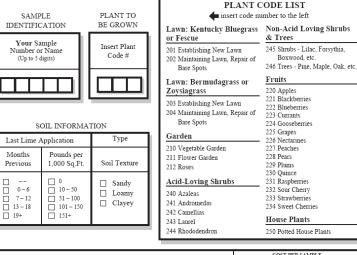


# Virginia Cooperative Extension Virginia Tech Soil Testing Laboratory REVISED 2001 Virginia Tech Soil Sample Information Sheet for Home Lawns, Gardens, Fruits, and Ornamentals

#### Please Print

INSTRUCTIONS: See other side for sampling instructions. For a recommendation, be sure to fill in the plant code number. Place check marks () where appropriate. Use another form for commercial crop production. Send samples, forms, and payment to Virginia Tech Soil Testing Lab, 145 Smyth Hall (0465), Blacksburg, VA 24061, in a sturdy shipping carton. For large shipments, total box weight must be less than 70 pounds.

Your Name		Date:
City	Zip (required)	Extension
Telephone No.		Unit Code:
Extra Copy For: (Dealer, etc.)		- 11
Street, Route		
City	Zip (required)	



SOIL TESTS DESIRED	COST PER SAMPLE		
SOIL LESIS DESIKED	IN-STATE	OUT-OF-STATE	
Routine (soil pH, P, K, Ca, Mg, Zn, Mn, Cu, Fe and B)	\$ 7.00	\$10.50	
Organic Matter	\$ 3.00	\$ 4.50	
Soluble Salts	\$ 3.00	\$ 4.50	
Fax Results: FAX # ( )	\$ 1.00	\$ 1.50	
Send in payment along with soil sample and form; make check or money order payable to "Treasurer, Virginia Tech."			

# Soil pH

- A measure of soil alkalinity or acidity.
- Many nutrients become unavailable if pH is not correct.
- May need 100 pounds of lime per 1000 square feet to raise pH 1 point.

#### Proper pH for Lawns 6.2 to 6.5













