



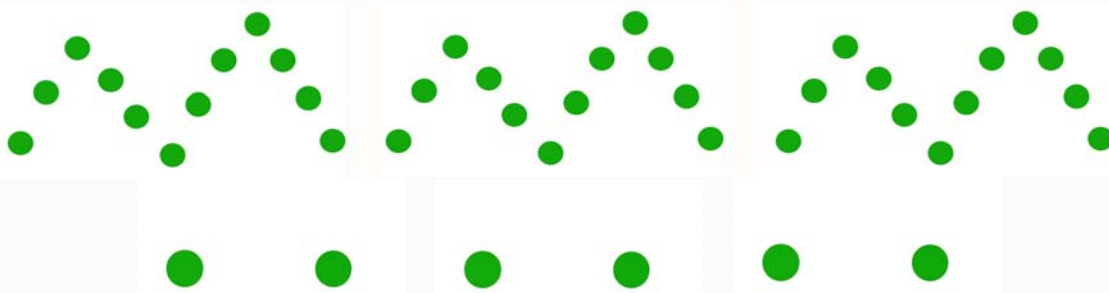
# Soil Testing

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- Soil sampling can help understand what is available
  - Understand what nutrients are available in soil
  - Understand what nutrients are lacking in soil
  - Helps calculate fertilizer needs
  - Helps soil fertility management
  - Help increase profits
  - Minimize crop losses
- Collect a good representative sample
  - Results are only as good as the sample you take

HEAVY SOIL		INTERPRETATION					
Soil Analysis	Results	Expected	Very Low	Low	Sufficient	High	Very High
pH	4.8	6					
P_ppm	89	37.5					
K_ppm	555	250					
Ca_ppm	1478	1750					
Mg_ppm	355	350					
OC_%		No criteria found					
Total_N_%		No criteria found					
Salinity_EC	0.37	1.25					
S_ppm		No criteria found					
Fe_ppm		No criteria found					
Mn_ppm		No criteria found					
Zn_ppm		No criteria found					
Cu_ppm		No criteria found					
B_ppm		No criteria found					
Mo_ppm		No criteria found					
Al_ppm		No criteria found					

## Sampling: Which sampling is better?



- Provides crop specific recommendations
  - Advises you how much to apply
  - Estimates cost / acre
- How much does a sample cost?
  - Samples run about \$15-20 / sample
  - pH and SALINITY
    - Salinity can serve as an indicator of over application of fertilizers, manures, etc
  - Extractable Nutrients: (Ca, Mg, P, K)
  - Organic Carbon (OC); Total Nitrogen (N); Boron (B)
  - Additional Extractable Micronutrients
- Call the CTAHR ADSC Lab for more information at: (808) 956-6706

Recommended Nitrogen inputs

Fertilizer and Lime Recommendations			
Total Nutrient Requirement (lbs/Acre):	Nitrogen: 175	Phosphorus: 0	Potassium: 0
Fertilizer / Lime Material	Total Amount (lbs/Acre)	Applications	Cost Estimate (\$/Acre)
Fertilizer: 46-0-0	389	split into 2-3 applns.	82
Lime Material: Coral Limestone	4952	split into 1 applns.	1090

Adjust pH levels

