

2008 Dole Pre-Side-Dress Nitrogen Test (PSNT)



Purpose of the project

- Evaluate the effectiveness of Nitrogen applications
- Considerations
 - Cost-effectiveness
 - Environment
 - Preserving product yield



Location of testing

- Grower was Royal Packing, Salinas Valley
- Fields tested
 - 20 lettuce fields (romaine & head lettuce)
 - 2nd Crop
 - Mostly clay soil texture, some loam



Testing procedures

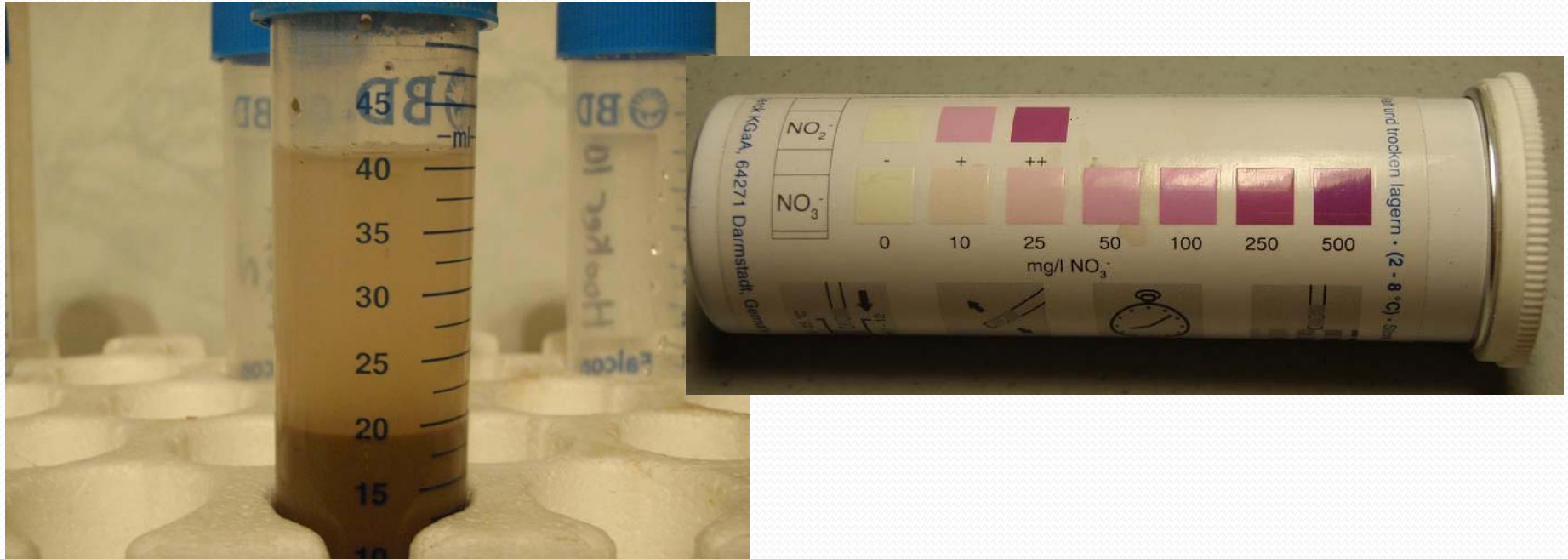
- Gathered composite soil samples
- Tested for ppm Nitrate nitrogen ($\text{NO}_3\text{-N}$)
- Equipment used
 - Merckquant[®] test strips
 - 50 ml volumetrically marked tube
 - 5.6 grams Calcium chloride in 1 gal distilled water

Test Strips:

Ben Meadows: 1-800-241-6401 (catalog # 7830)

VWR: 1-800-932-5000 (catalog # EMD 10020-1)

Calculate lbs N per Acre



Correction Factor		
Soil Texture	Moist Soil	Dry Soil
Sand	2.3	2.6
Loam	2.0	2.4
Clay	1.7	2.2

x 4

Fertilizer recommendations

If converted lbs of N per acre equals	Then apply	Side-dress requirements lbs N per acre
0		80
20		60
40		40
60		20
80		0

Trial Layout

