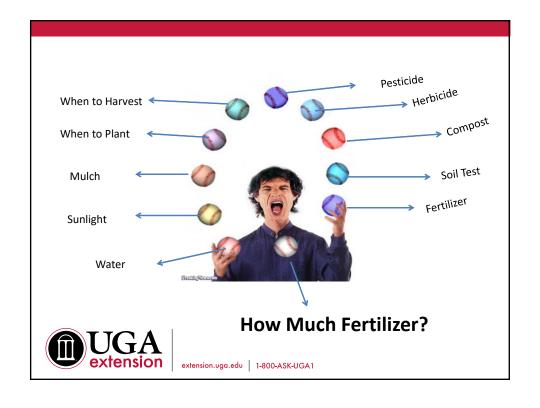
# Soil Testing-Breaking the Fertilizer Code

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## **Reasons to Test your Soil**

 Measure available nutrients and soil pH (acidity/alkalinity)



- Type and amount of fertilizer and lime to increase soil pH if needed
- Recommendations are customized for lawns, crops, gardens, trees



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# The Benefits of Testing include:

- Saves time and money
- Apply lime and fertilizer correctly



• Maximize growth and yield



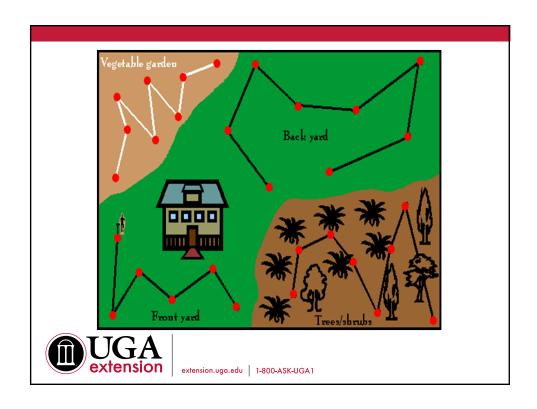
# **Taking a Soil Sample**



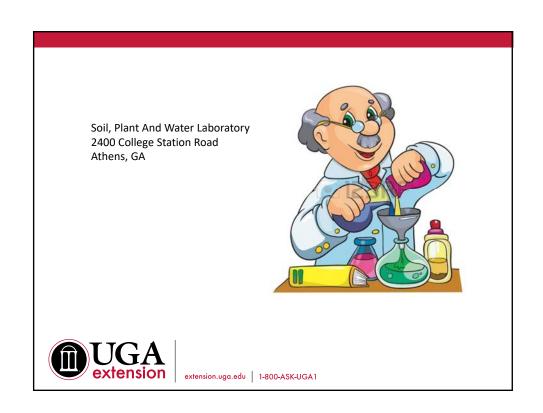
- Use a trowel to take random samples 6" deep
- Place a scoop from each sample site into a plastic bag
- Bring your sample to 530 W.
   Memorial Drive in Dallas
- Along with \$9

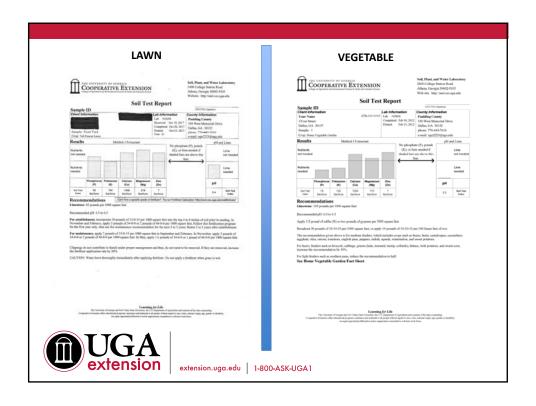


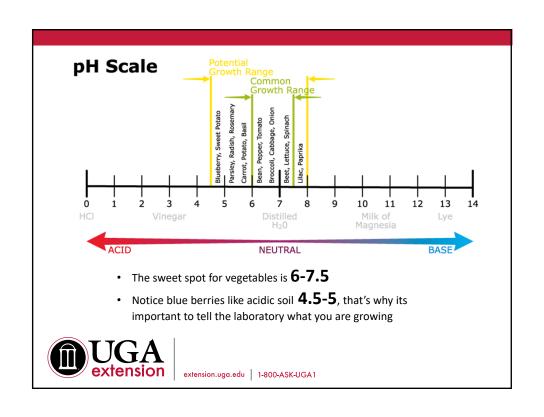


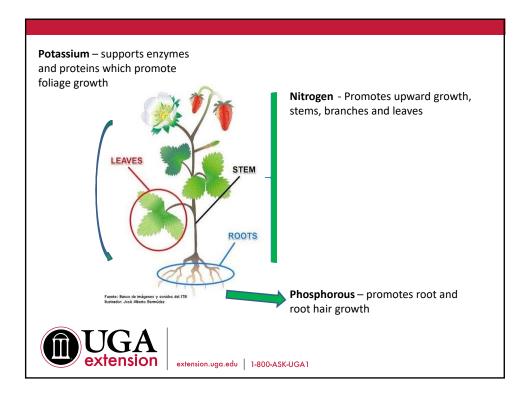












# **Break the Fertilizer Code**

- 10-10-10 is the go to fertilizer of the south
- 50 lb. bag
- is 10% or 5 pounds each of Nitrogen, Phosphorus and Potassium





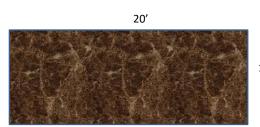


# **Units of Measurements**

**Square Foot - 12 inch square** 

1 pound = 16 ounces





12'



Mr. Jones

Mr. Jones Soil Test recommends broadcasting 20lbs of 16-4-8 per 1000 sq. ft. He wants to install both a summer and fall garden. He also wants to compare conventional and organic fertilizers.

How much conventional or organic fertilizer does he need?



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# All Fertilizer Computations Start With The Soil Test Recommendations

Ratio:

So if Mr. Jones' Soil test recommended 20 lbs of 16-4-8/1000 square feet, then how many pounds of fertilizer does he need for his 240 ft<sup>2</sup> garden?

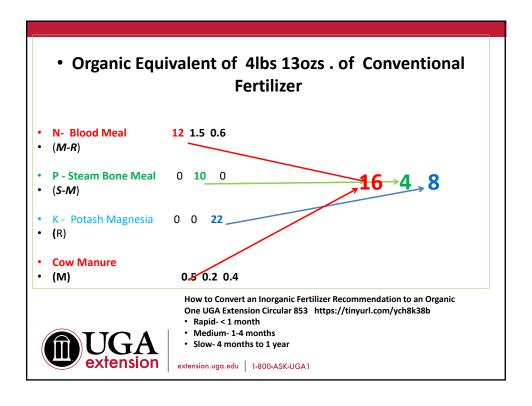
$$\frac{\text{Soil Test poundage}}{\text{Soil test Squ. ft}} = \frac{x}{\text{Squ. Ft in garden}}$$

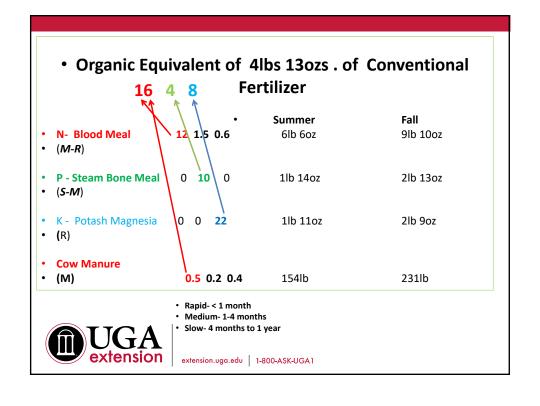
$$\frac{20 \text{ lb}}{1000 \text{ ft}^2} = \frac{X}{240}$$

4800 = 1000x









# **Application**

#### Conventional

- · Apply half at planting
- Wait 3 weeks and apply the remaining half
- · Plants are not able use all of the recommended nutrients quickly



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# **Application**

## Organic

- · Apply all at initial planting
- Because organics need time to become available to plants



## WHY IS ALL OF THIS IMPORTANT?



### We tend to think more is better









