

# Louisiana Agricultural Technology And Management Conference

Crop Protection and Production Quiz

2011

sponsored by:





1

The application of high phosphate fertilizer in furrow at planting could cause a temporary deficiency of this micronutrient:\_\_\_\_\_.

2



**3**

## True or False:

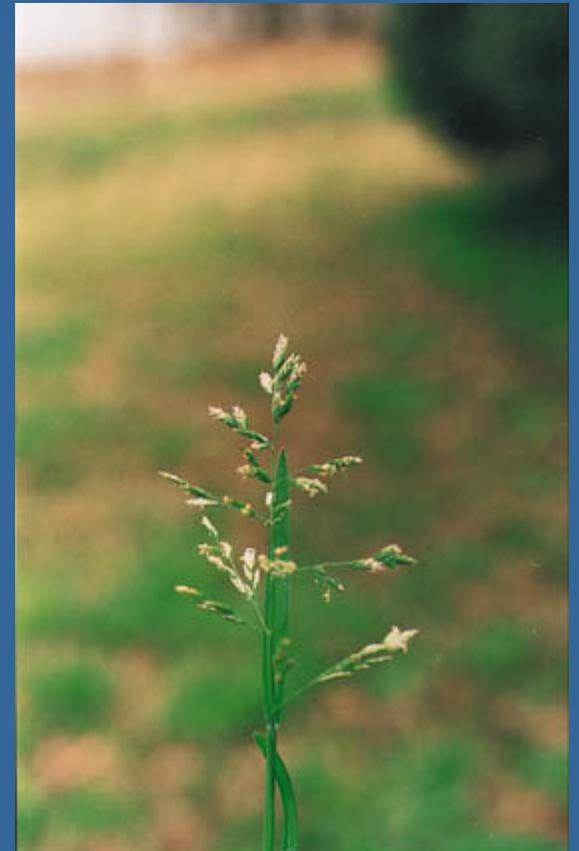
Interveinal chlorosis in soybeans following glyphosate application can be easily avoided by adding 1/10<sup>th</sup> lb magnesium chelate to the spray mixture.



**5**



6



7



8



9



**10**



**11**



12



**13**





**14**



**15**



**16**



17

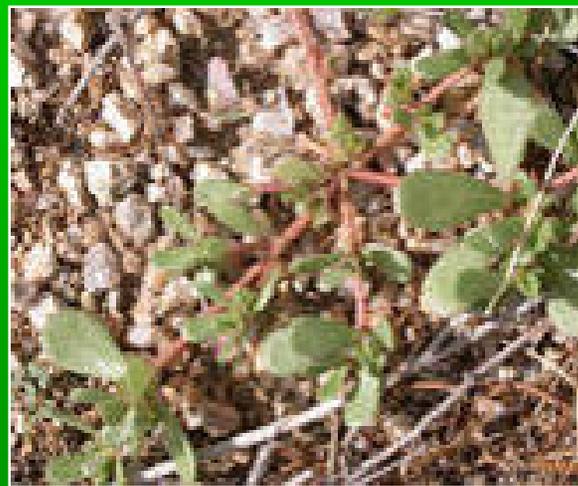


18



**19**





20



**21**



22



**23**



24

Extension



**25**



26



27



**28**

29.

**Compared to a soil with pH 7.0, a soil with pH 6.0 is said to be \_\_\_\_\_ times more acidic.**

30.

**Micronutrients of importance to crops become relatively less available for uptake at higher pH levels except this one: \_\_\_\_\_**

31.

**According to the Weed Science Society of America, Louisiana has six (6) examples of herbicide resistance. Which one is the most widespread?**

32.

**In La., common cocklebur could be resistant to this herbicide:**

## Bonus 1:

Counting available and unavailable forms, which plant nutrient is considered by far the most abundant in our soils with amount ranging from 8,000 up to 50,000 lbs per acre?



4.13.2001

***Bonus 2 :***



*Bonus 3 :*

*Bonus 4 :*

**The Boll Weevil is the mascot for what NCAA Division II school?**

*Bonus 5 :*

**List one of the two years found on the Louisiana state commemorative quarter.**

The End !!

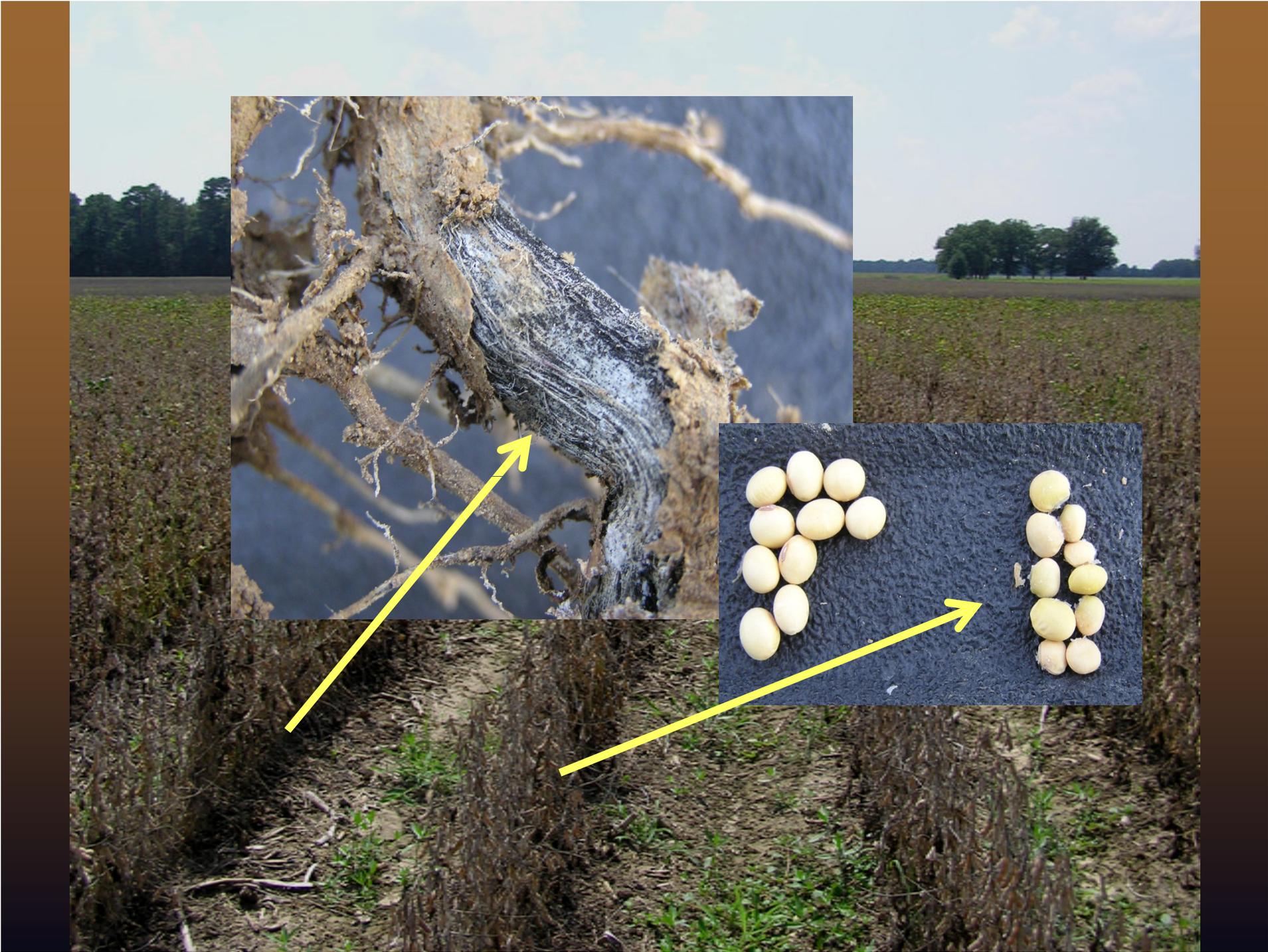
# Extra Slides





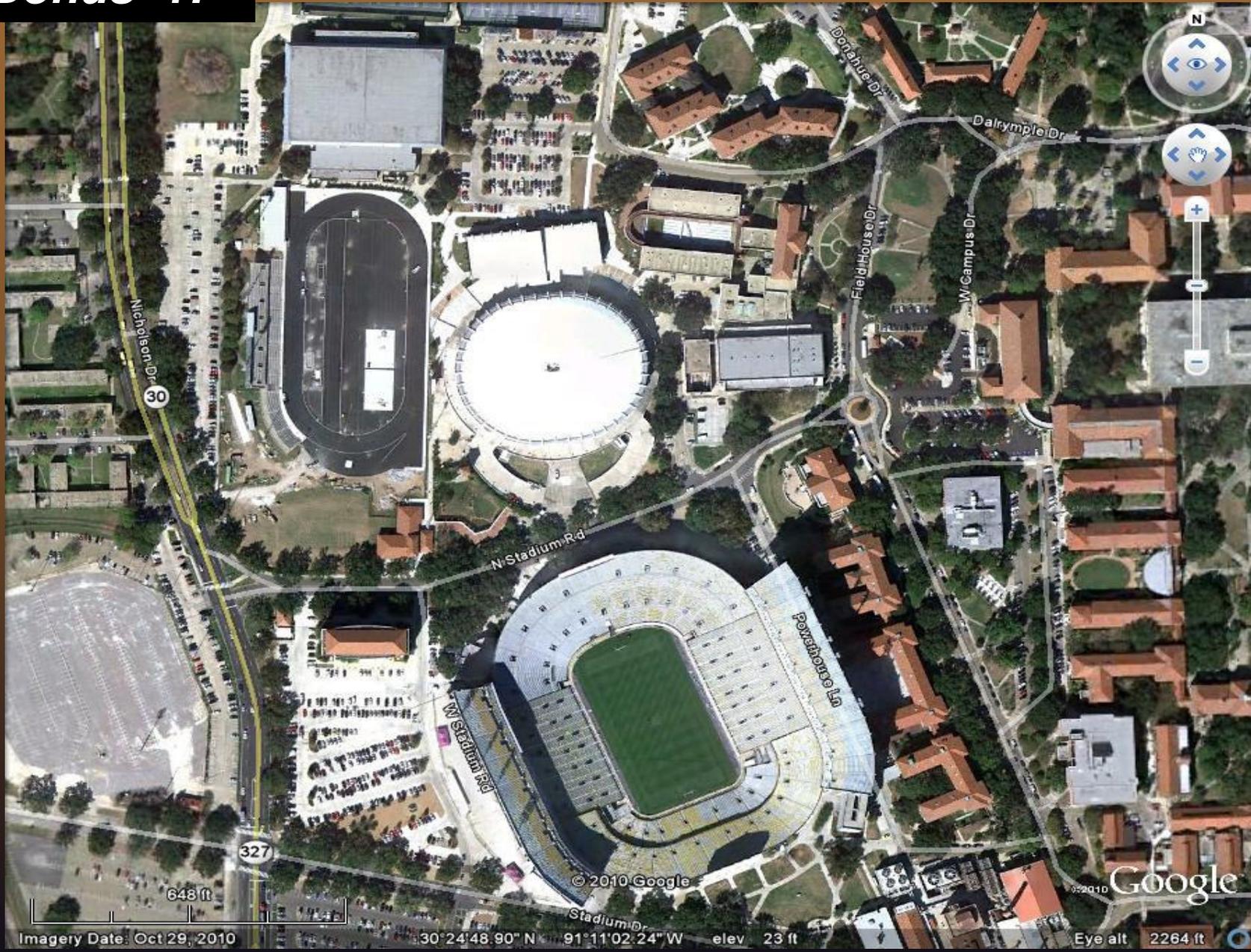






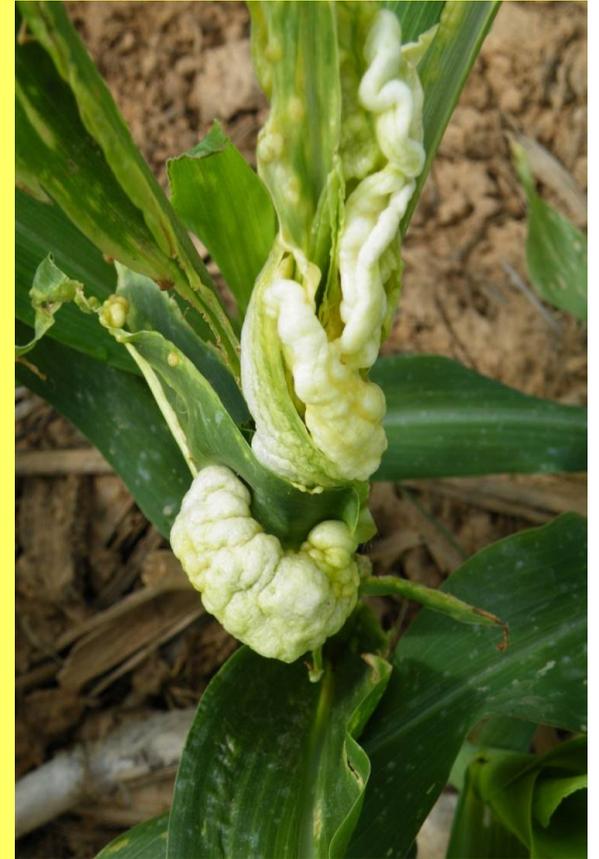


# Bonus 1:



31.

**RUSLE – this acronym stands  
for what?**



# Smut



# Stem Rust





# Powdery Mildew

- ✓ *34-86 F*
- ✓ *59-71 F (Best)*
- ✓ *80% to 100% RH*



# Harvest Aid Study Results

- Apply Gramoxone to indeterminate Maturity Group IV soybeans when seed moisture from the uppermost 4 nodes of plants averages 50%.
  - Seed in upper canopy least mature
  - Application around 115 days after planting in either mid- April or mid-May
  - Soybeans harvested 7 to 10 d after application and 14 to 15 d before nontreated
- Apply Gramoxone to determinate Maturity Group V and VI soybeans when seed moisture from the uppermost 4 nodes of plants averages 40%.
  - Seed in upper and lower canopy least mature
  - Application around 125 days after planting in mid-May
  - Soybeans harvested 12 to 14 d after application and 7 to 8 d before nontreated
- Gramoxone label is unclear as to application timing and is probably too conservative (current label 30% seed moisture and 1/2 leaves dropped).
- Other label issues
  - 16 oz/A maximum rate
  - 15 day harvest interval (needed for desiccation of vines)



# Recommendations For Timing of Harvest Aid Application in Soybeans



Collect pods from the top third of plants at random across the field. Open pods and look for separation of beans from the white membrane inside the pod. If this is observed for all pods collected then seed are at physiological maturity (around 50% moisture) and have reached maximum dry weight. It is safe then to remove leaves without affecting seed weight.

## Other ways:

If one normal pod on main stem has reached mature color soybean growth stage is R7.



6



Green cloverworm



Spider mites

7



**Italian Rye Grass**

6



Giant Ragweed



5

Spreading dayflower

# Common Corn Rust





**Downy Mildew**





**False Smut on  
Rice**





*Potassium deficiency on rice*



McCann

***Bonus 3 : brown widow spider***







2

