Common Sense Approach to Fertigation



Integrated Ag Services





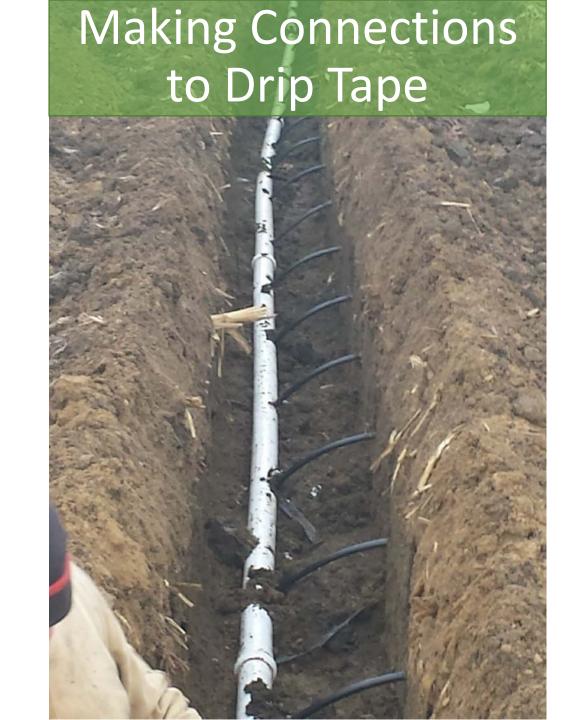
Why use SDI versus a Center Pivot



Drip Tape Installation

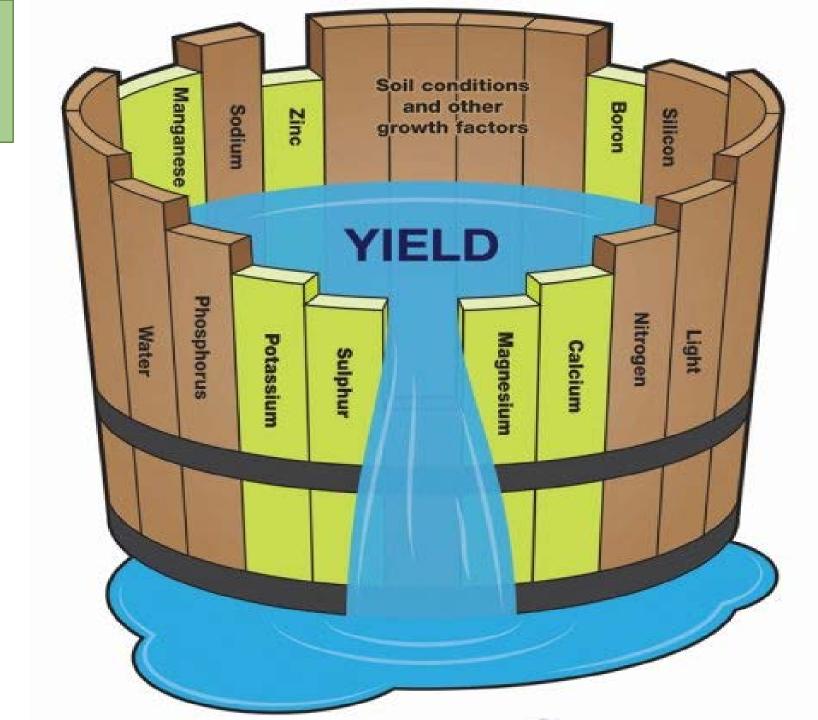


Installing Supply Lines



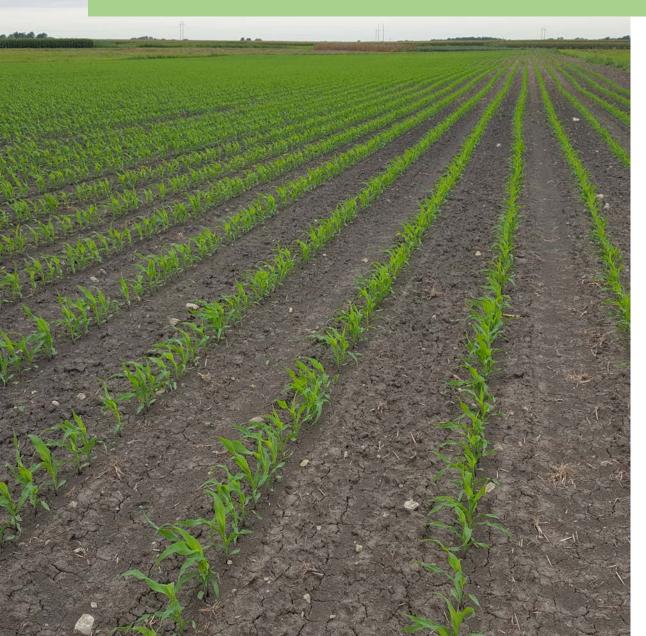
Liebig's Law of the Minimum

Once water (too much, too little) is removed from the minimums, then we can truly evaluate other agronomic factors reducing yields

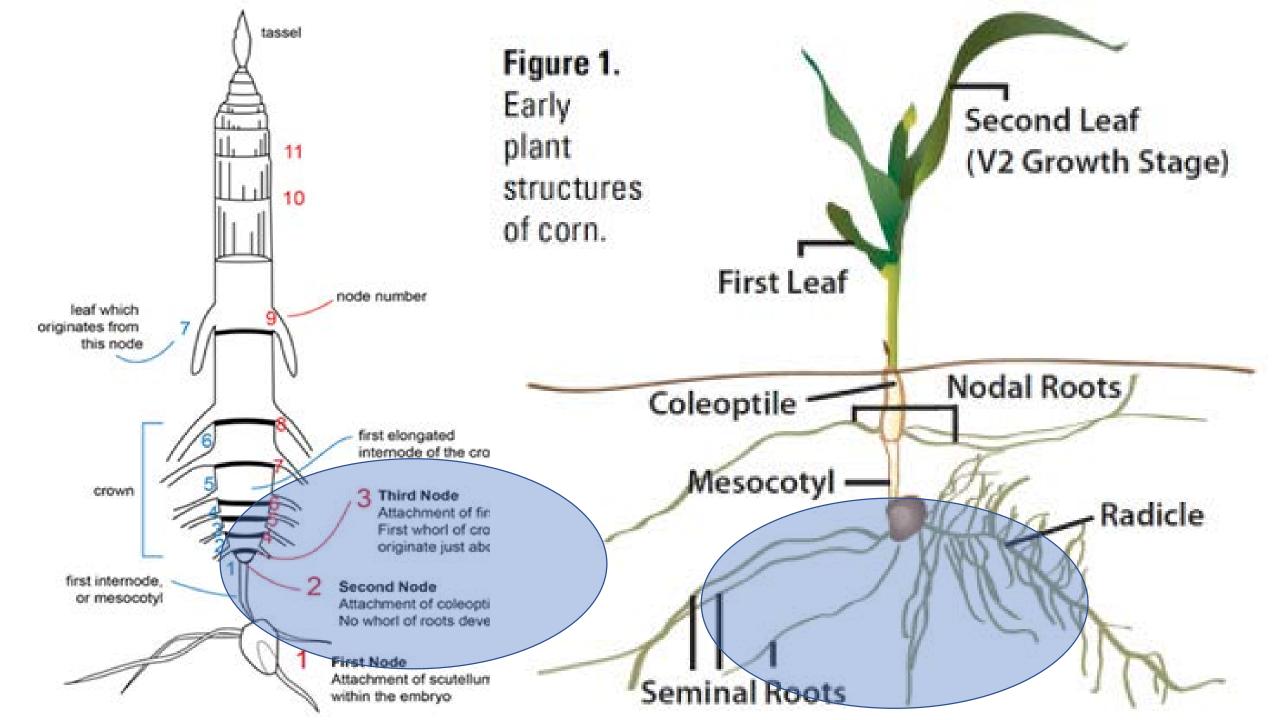


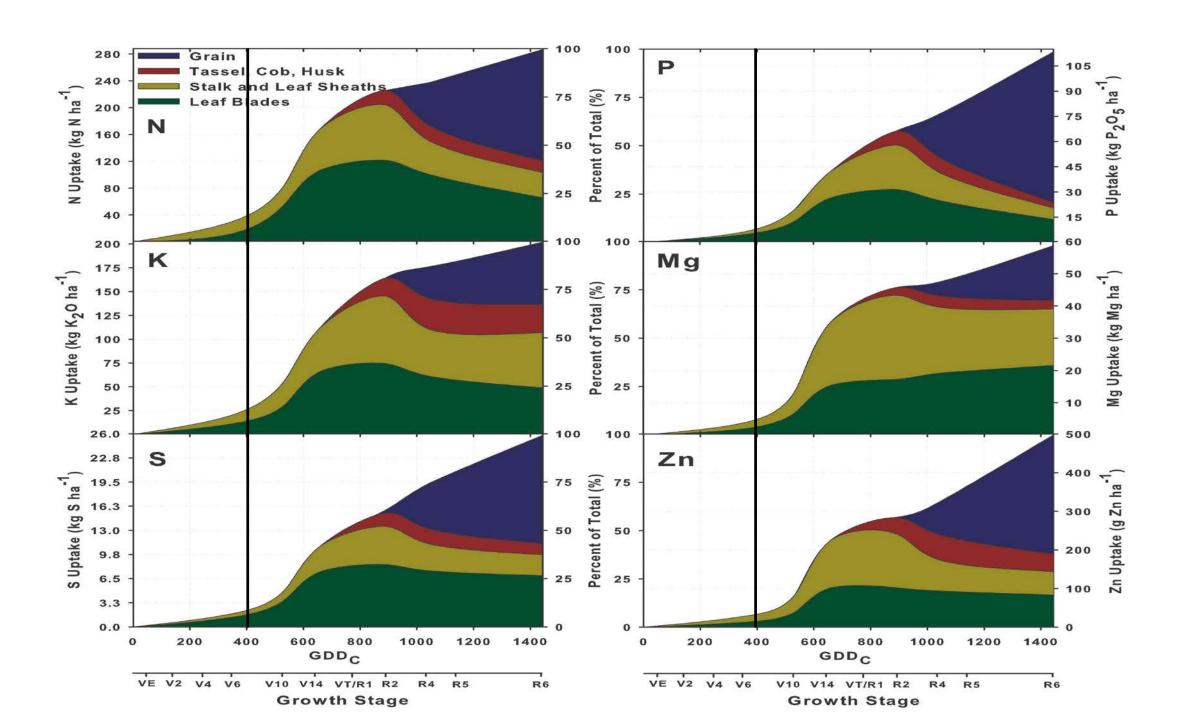


Hold off Irrigating and Fertigating until > V3 Corn



- Row starter (10-34-0 or complete starter)
 - If using 12-0-0-26 and or 28-0-0 it <u>MUST</u> be applied 2X2
 - Row Starter is generally NOT rate responsive, low rates work as well as high rates
 - Placement is critical in furrow and/or 2X2 works best
- If no Sulfur in row Broadcast AMS 100 lbs./ac. (Planting to V2)
- Minimal amount of nitrogen (30-60 lbs. act. N)





Compaction dramatically affects root growth

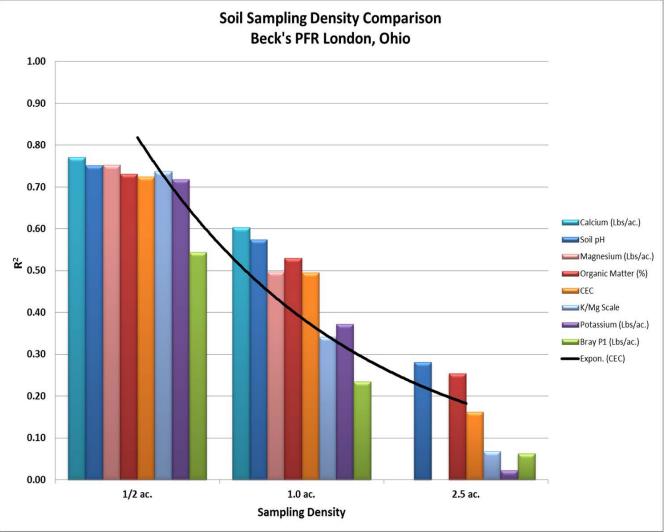


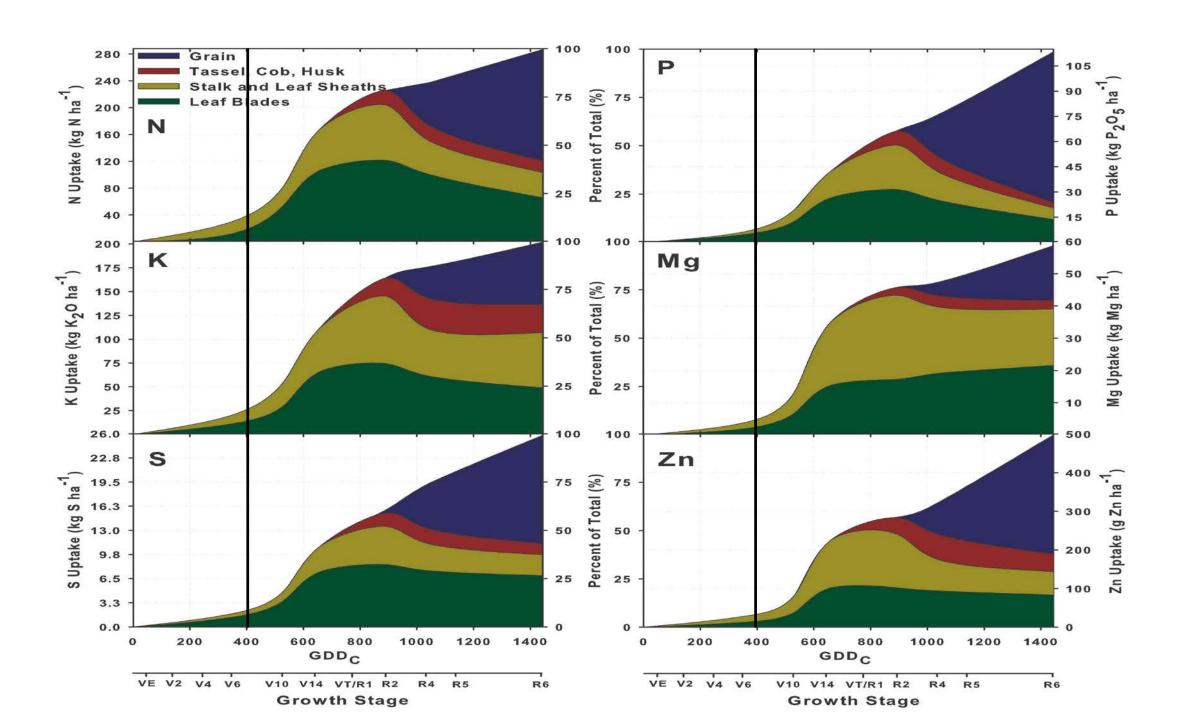


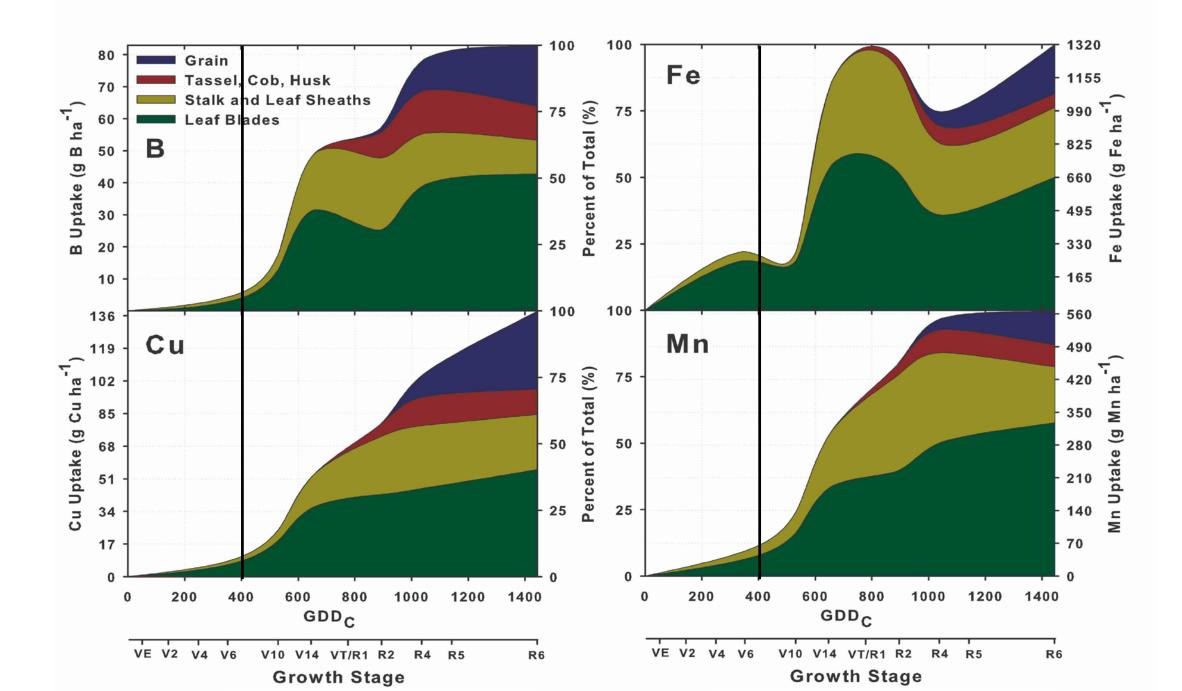
HD Soil Sampling – ENTRANCE EXAM



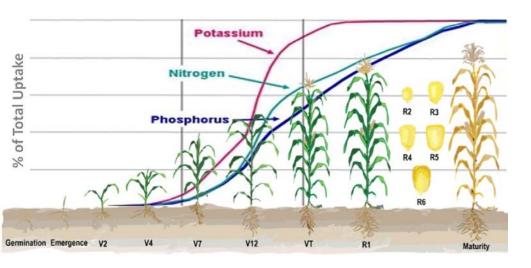
- Determine nutrient needs
- Make corrective measures

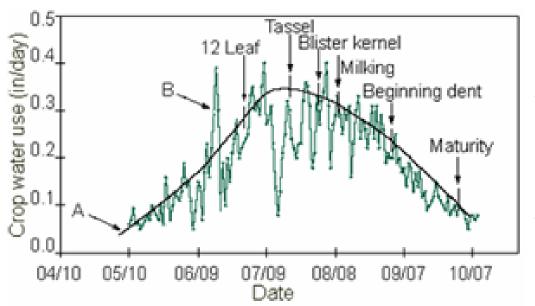






Rapid Growth Stage (V6-V12)





- Watering is critical to move nutrients into the plant
- Massive amounts of potassium needed
 - Most of the potassium needs to come from soil applied K
 - Fertigate 5 lbs. soluble potash from V4 V10
- Massive amounts of nitrogen are needed (7.8 lbs/day)
 - Fertigate nitrogen from V4-R1 (spoon feed 4-5 times)
 - 0.9 lbs. N/bu. of corn (250 bu./ac. =225 lbs. N)
- Phosphorus is incrementally needed through grain fill
 - Most of the phosphorus needs are met through starter and soil applied P.
 - If possible split apply fall and in-crop
- Sulfur is incrementally needed until grain fill
 - Fertigate Sulfur from V4-R1
 - Nitrogen/Sulfur ratio critical 7/1 ratio (225 lbs. N = 32 lbs. S)
 - Use readily available sulfate sulfur
- Fertigate Zn and Boron V4-R1 (1-2 lbs. per growing season)



Plant sample by Common Production Unit (CPU) – MIDTERM EXAM



- Plant sample is taken every 14-21 days from V4 - R1
- Strategically sample 3 locations based on field productivity index

Yield Map and Analysis – FINAL EXAM



- Look for yield limiting factors
- Look for yield boosting factors



Questions

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