

Consequently, our greatest agronomic challenge today is to

stress-proof our crops against unpredictable, extreme weather events.



PURDUE



The effects of weather stress on crop growth and yield are compounded by the presence of other yield-limiting factors.

Bad news & Good news

 Soil compaction, nutrient deficiencies, disease damage, insect injury, weed competition, poorly drained soils, or any of the other gazillion yield-limiting factors that influence crop growth & yield.

© Purdue Un

That's the bad news.

PURDUE

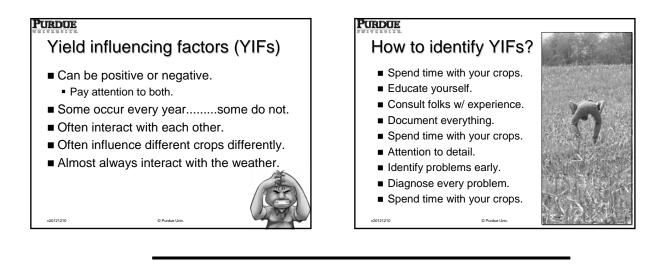
2012121

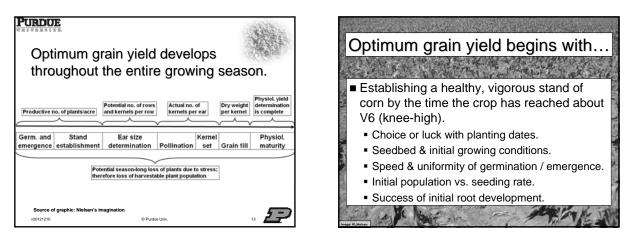
Also good news because...

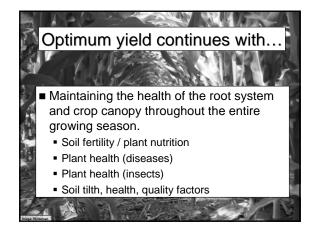
If you can identify and manage other yield-limiting factors, this will help you "stress-proof" your cropping system against the vagaries of Mother Nature.



v20121210





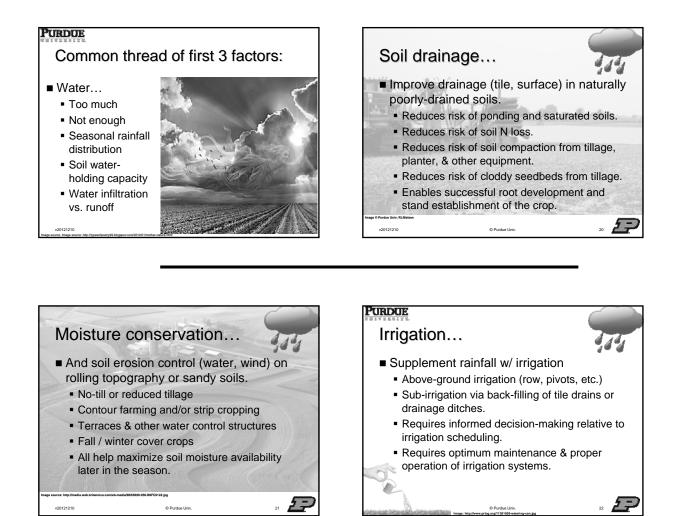


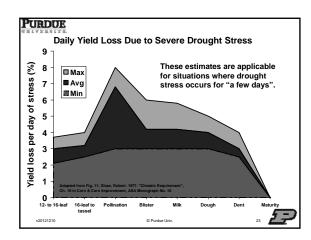
How to raise the "yield bar"...

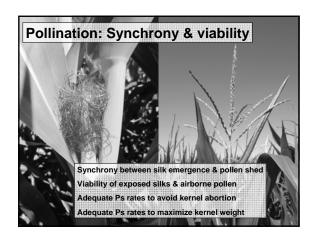
- I do not have all the answers.
- But, then, neither does anyone else.
- Let me share with you some of the key factors that I believe to be important for raising the "yield bar" for corn in the eastern Corn Belt.
 - Maybe some of these agronomic factors will resonate with you also.

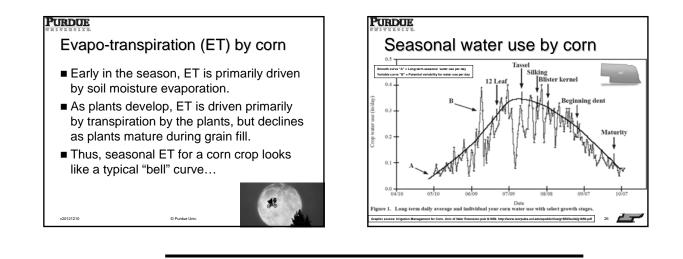
© Purdue I Ini

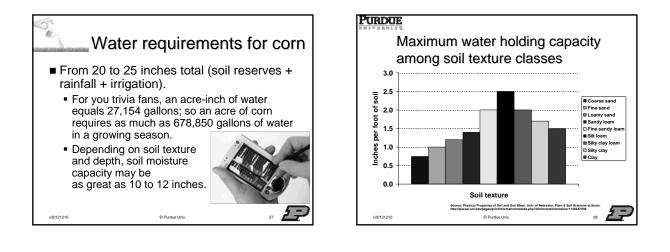
v20121210

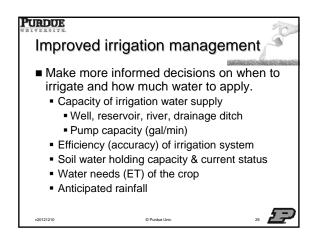


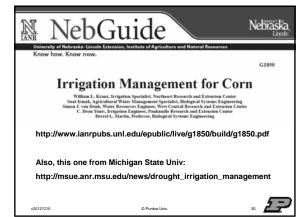


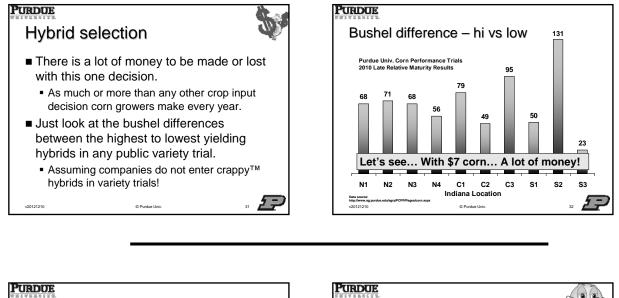


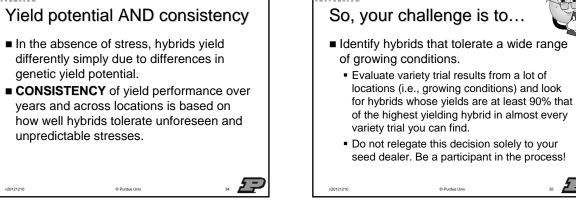










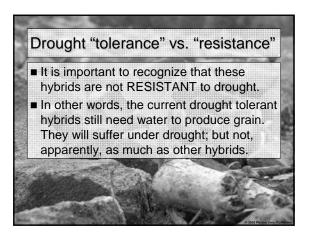


PURDUE

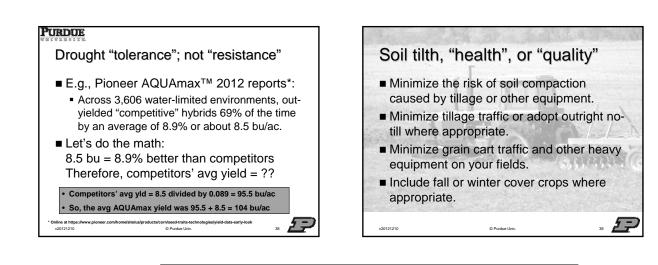
Drought tolerant hybrids?

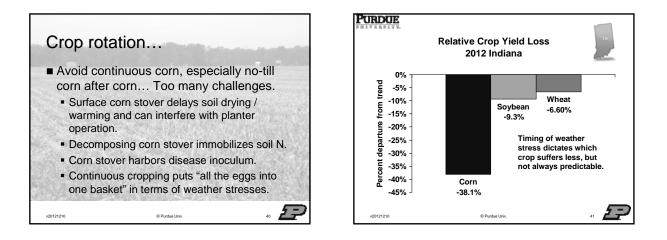
- There is no single common trait among hybrids currently labeled "drought tolerant"
 Simply have shown the ability to vield better
 - Simply have shown the ability to yield better than others under water-limited conditions.
- If you can find the evidence that supports their superiority for yield and consistency of yield across a wide range of growing conditions, go for it.

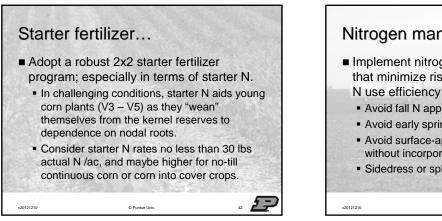
© Purdue Univ

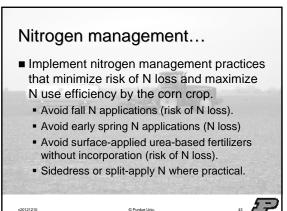


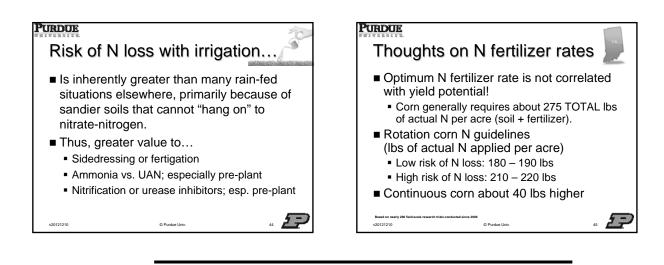
v20121210

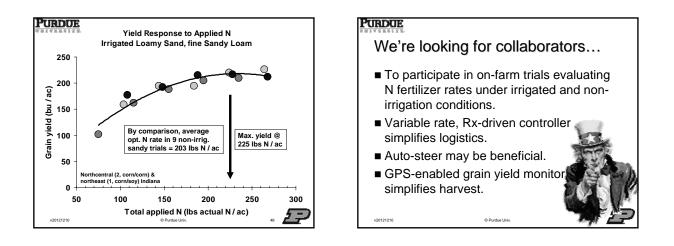


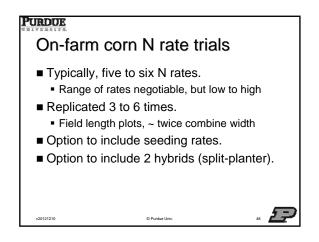


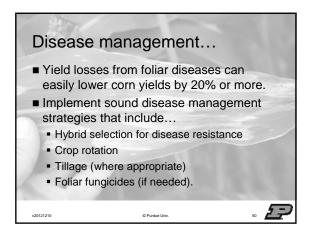


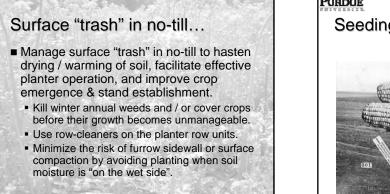




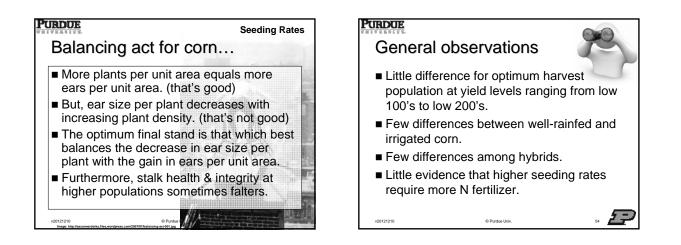


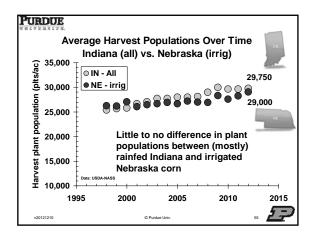












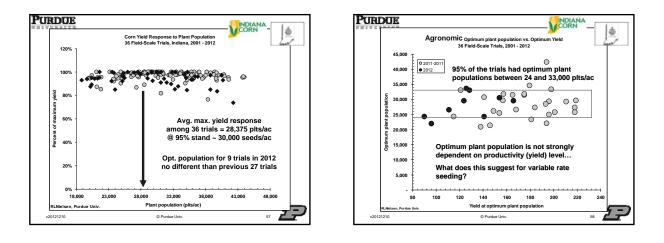
PURDUE

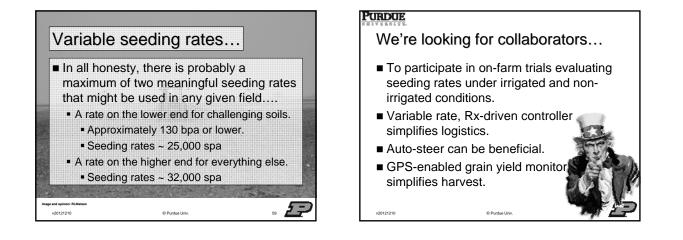
On-farm corn seeding rate trials

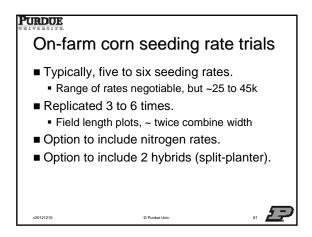
- Since 2010, I have been involved with 27 field-scale or on-farm seeding rate trials around the state.
 - Other field-scale trials back in the early 2000's bring the total number up to 37 trials.











PURDUE

v20121210

Remember, it ain't rocket science!

- The key factor is to identify those yield limiting factors that are most important for your specific farming operation.
- Together with your crop advisor(s), identify & implement good agronomic management practices to target those yield limiting factors.

© Purdue Univ

