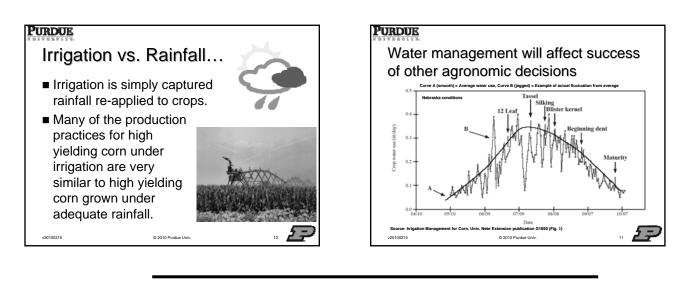
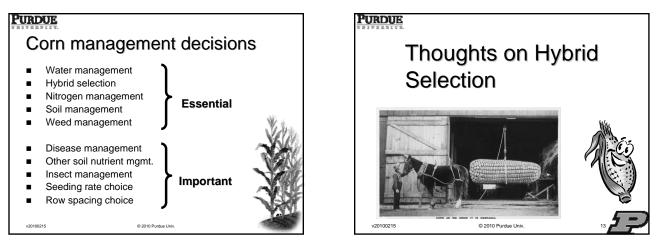


Maintaining canopy health To maintain maximum photosynthetic output, the photosynthetic plant "factory" must remain healthy throughout grain fill. Plant nutrition, diseases, insects, temperature, soil moisture. Canopy health during grain fill influences both kernel set and kernel weight.





Wise hybrid selection...



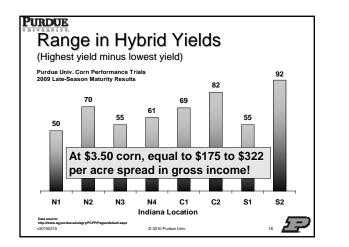
23

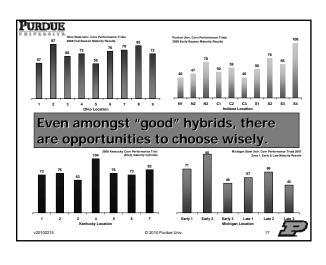
- Requires a lot of research & homework.
- Can be challenging because multiple location data are often difficult to obtain.
- Can be challenging because yield data often require further analysis & scrutiny.
- Can dramatically improve net income due to higher and more consistent yields for growers.

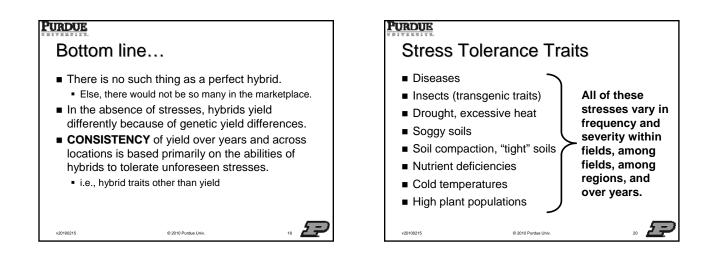
PURDUE

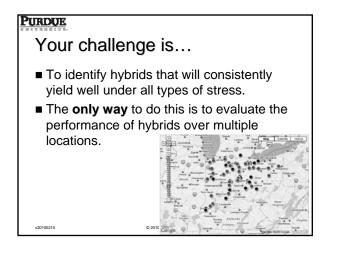
Hybrid selection

- Can we agree that there is a lot of money to be made or lost in corn farming simply by how successfully you select hybrids?
- How do we know this?
 - Look at the range between the highest & lowest yielding entries in any variety trial.
 - Assuming that companies typically avoid entering crappy[™] hybrids in variety trials.

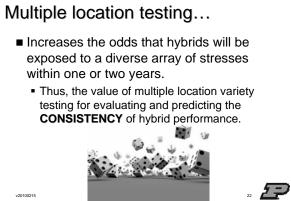


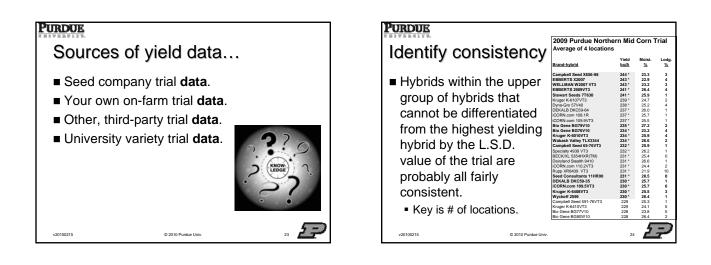


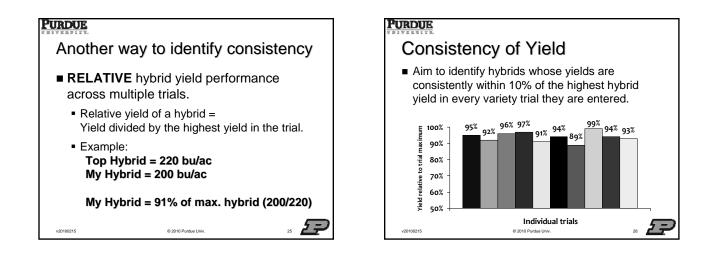


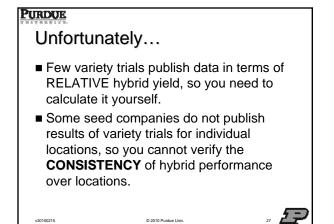


Purdue







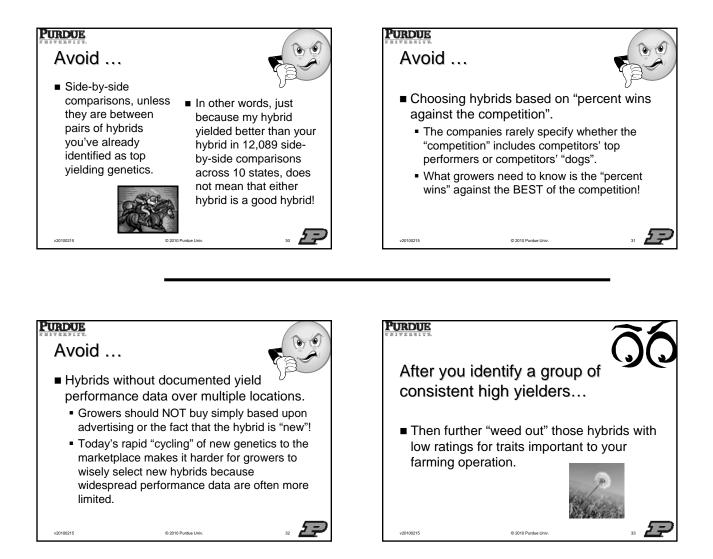


Purdue trials

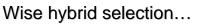
- Beginning with the 2009 trial data, we are providing RELATIVE hybrid yield as an alternative way to evaluate consistency among locations.
 - Only in interactive Web-based tables.
 - Four locations in each of geographic zone.

http://www.ag.purdue.edu/agry/PCPP









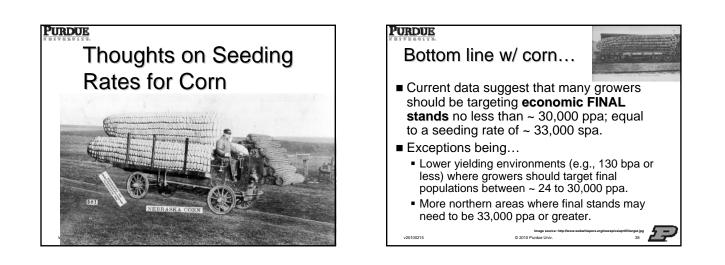


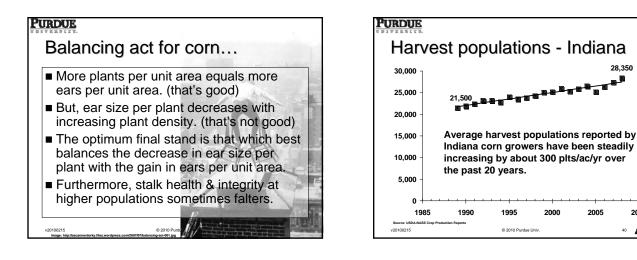
- Requires a lot of research & homework.
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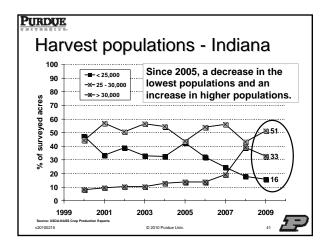
© 2010 Purdue Univ

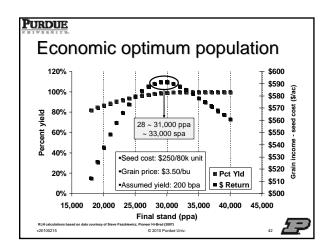
28.350

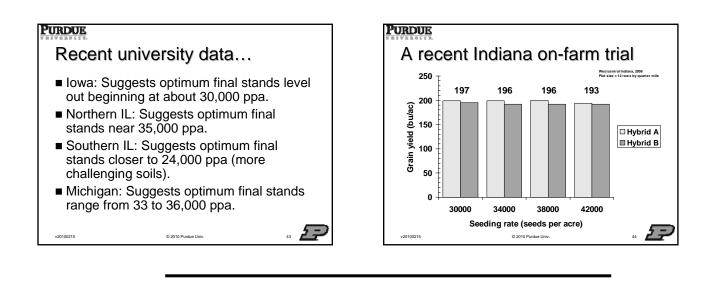
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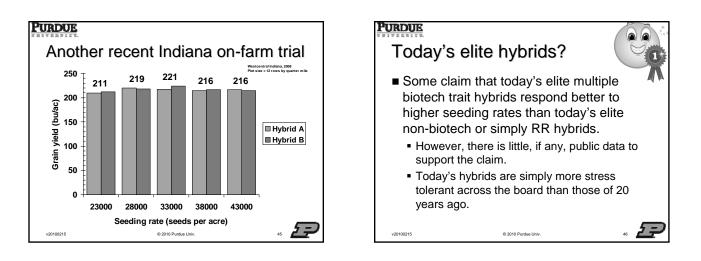


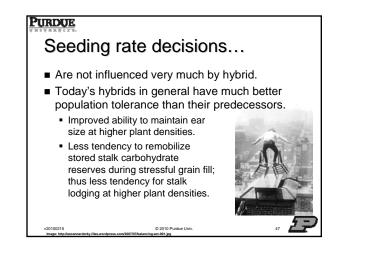












Stalk health concern...

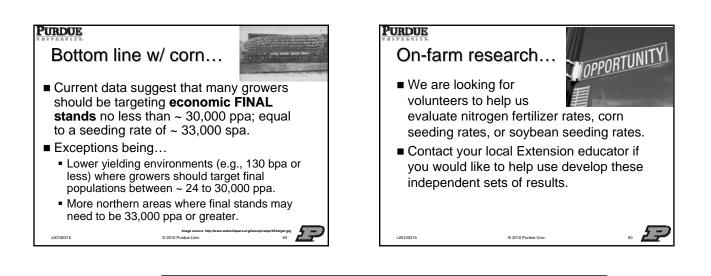
 Remains an issue for hybrids with moderate or worse stalk strength or stalk rot resistance.

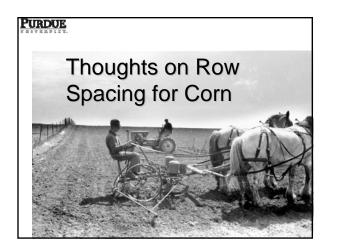


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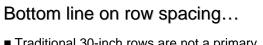
 Such hybrids should be planted at more moderate seeding rates to minimize the risk of severe stalk lodging prior to harvest.

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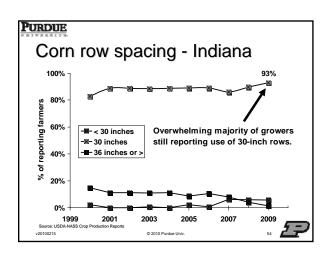


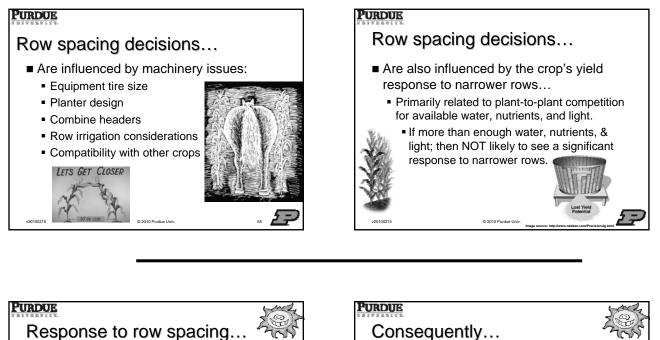
 Traditional 30-inch rows are not a primary yield limiting factor for corn production today.

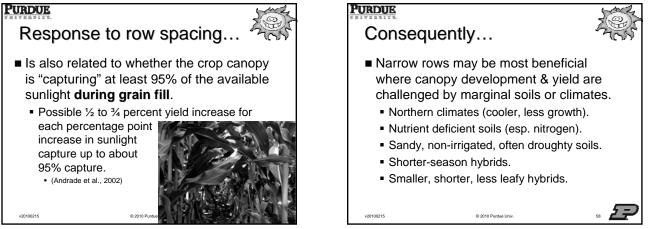
PURDUE

The move to 30-inch rows...

- Was accompanied by a good consensus by public researchers throughout the Corn Belt that 30-inch rows would yield 6 to 7 percent better than 36- or 38-inch row spacings.
- But, what about a move from 30-inch to 20- or 15-inch or twin rows today?
 - Garners a lot of attention in the farm press.







Most public research...



- Indicates that row spacings less than 30 inches result in small (2 to 4%) and, more importantly, inconsistent yield increases across the central Corn Belt.
 - Most have found that optimum seeding rates are similar for different row widths.
- Profitability depends on costs to change, acreage, potential yield, & grain price.

PURDUE

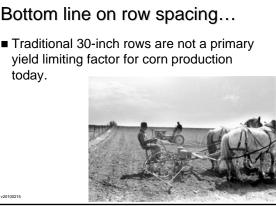


Image source v20100215