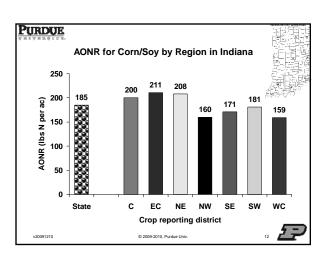


- A&L Great Lakes Laboratories for reduced costs on soil & plant analyses.
- Purdue Univ for partial funding of this research.

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# PURDUE

# What if?

regional AONR values.

So, what are the risks of simply using the statewide average AONR or one of the regional average AONRs?

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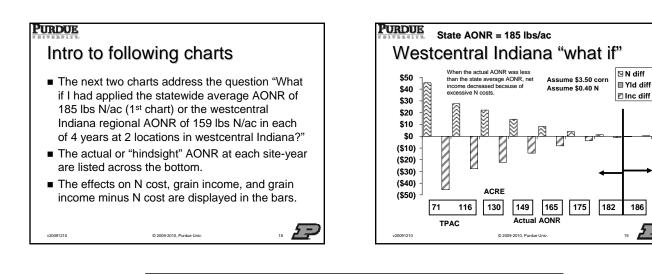
SW

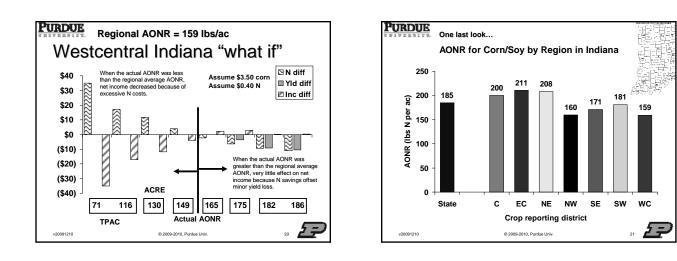
- Depends on the actual AONR value for that year, which you cannot yet predict with what we know today.
- But, we can get an idea by looking back at our trial data and asking "What if?".

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186





#### PURDUE

# Conduct your own trials



27

- Several years of yield response data from your own N rate trials may help you further pinpoint the "ballpark" optimum N rate for your farming operation.
- Contact me if you would like to collaborate on some on-farm N rate trials in 2010.

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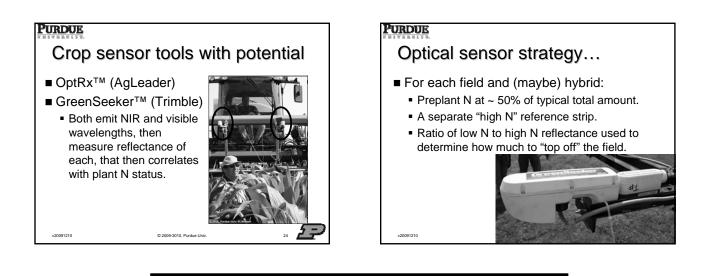
- rnielsen@purdue.edu
- 765.494.4802

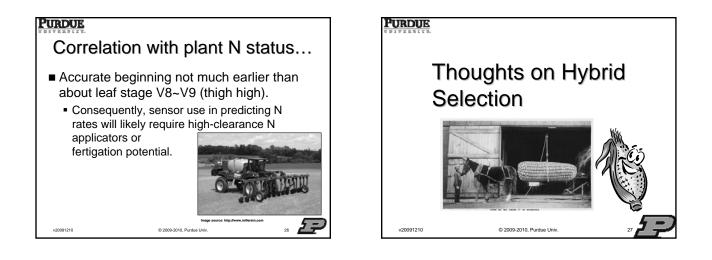
#### PURDUE

# Work towards N use efficiency

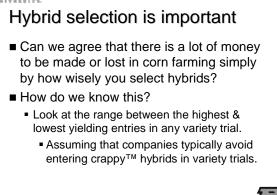
- Avoid fall N applications.
- Avoid broadcast N without incorporation.
- Use nitrification inhibitors or urease inhibitors with early spring N applications.
- Consider slow-release N products, but ask Camberato about their effectiveness.
- Work towards a sidedress N program.

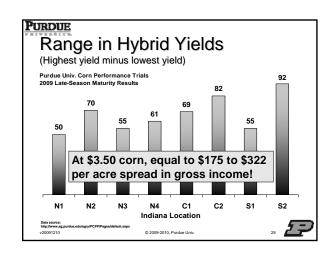
25

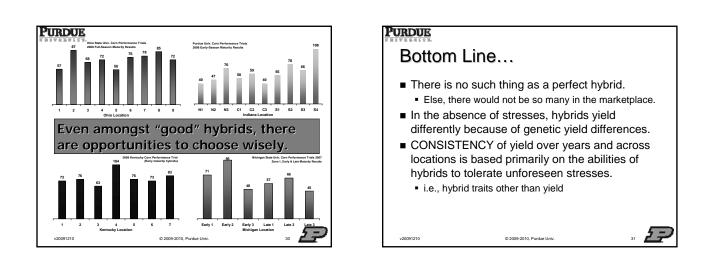


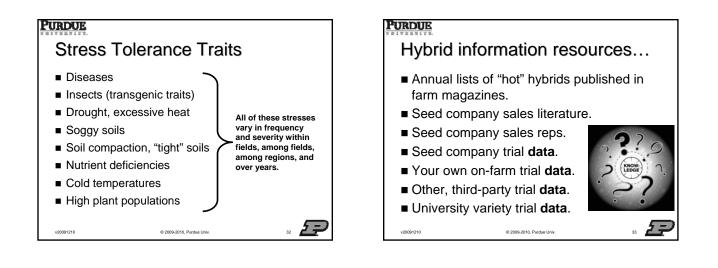


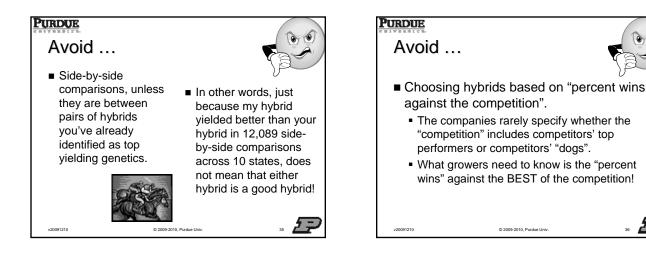
## PURDUE

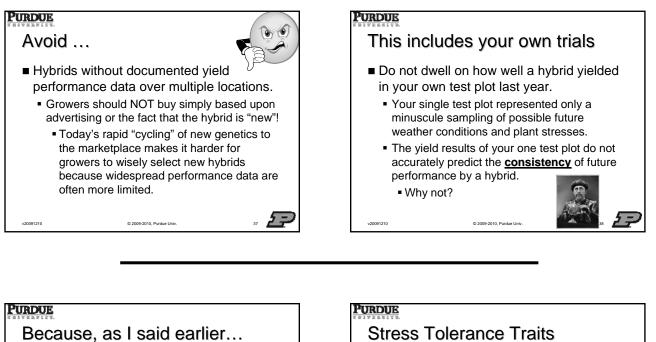


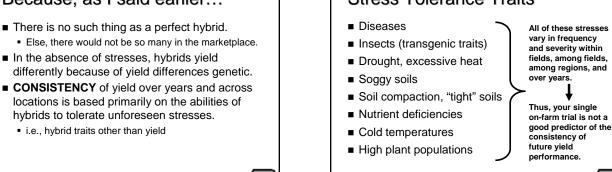










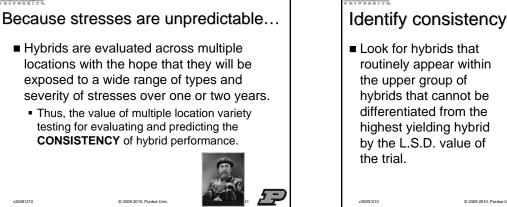


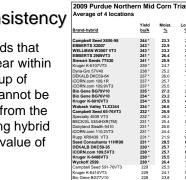
PURDUE



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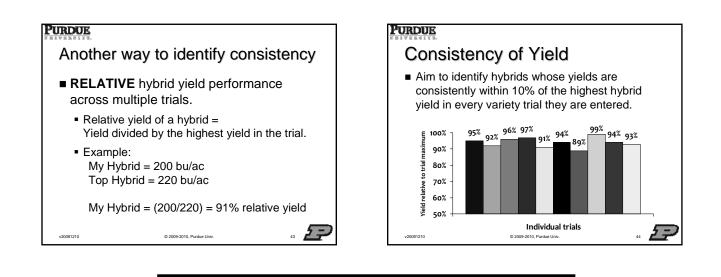
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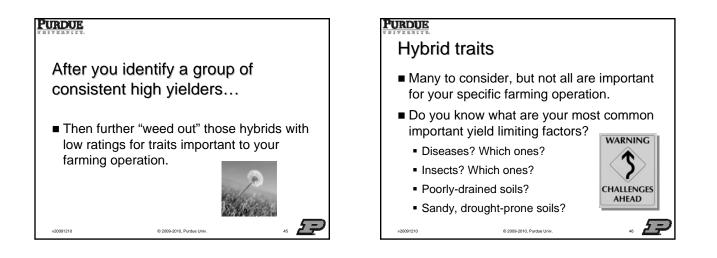




42

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27

#### PURDUE

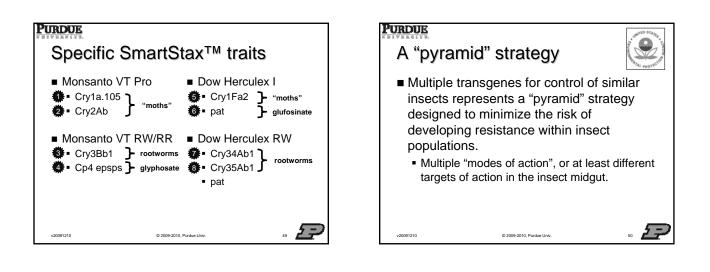
# Overview of SmartStax™

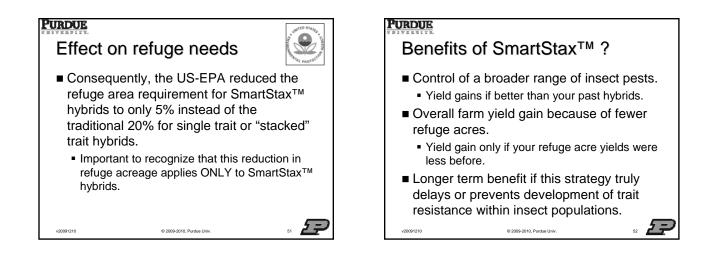
- In July 2009, the US-EPA approved SmartStax<sup>™</sup> for U.S. commercialization.
- Cross-licensing agreement between Monsanto and Dow AgroSciences.
- For 2010, seed will be available for about 4% of U.S. acres.
- What is it & should I be excited?

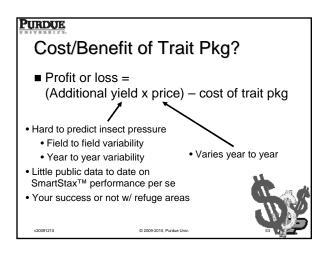
## Purdue SmartStax™ trait categories?

- 1. Resistance to "moths", including
  - ECB, SWCB, western bean cutworm, fall armyworm, corn earworm, black cutworm
- 2. Resistance to corn rootworm
- Tolerance to glyphosate (RoundupReady<sup>™</sup>)
- 4. Tolerance to glufosinate (LibertyLink<sup>™</sup>)

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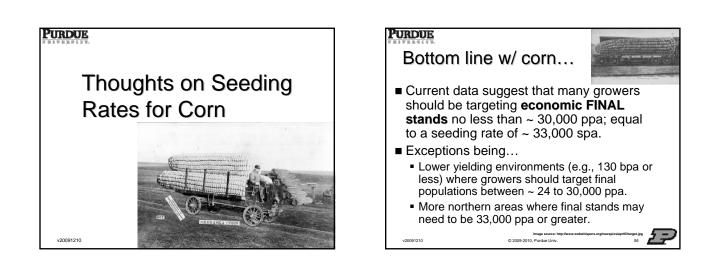


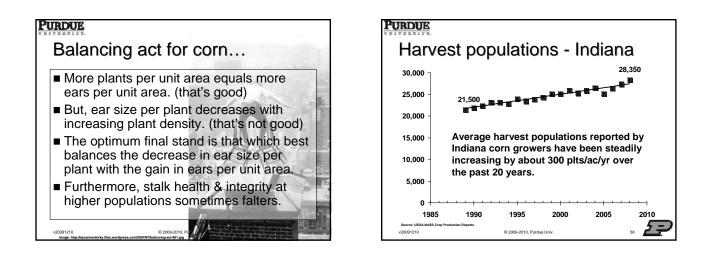
## <u>Purdue</u> Wise hybrid selection...

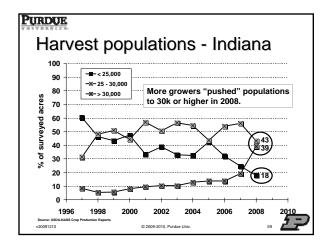


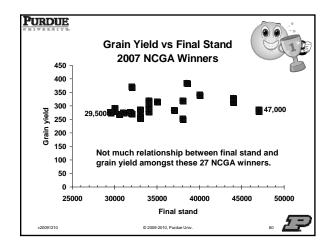
- Requires a lot of research & homework.
- Can be challenging because multiple location data are often difficult to obtain.
- Can be challenging because yield data often require further analysis & scrutiny.
- Can dramatically improve net income due to higher and more consistent yields for growers.

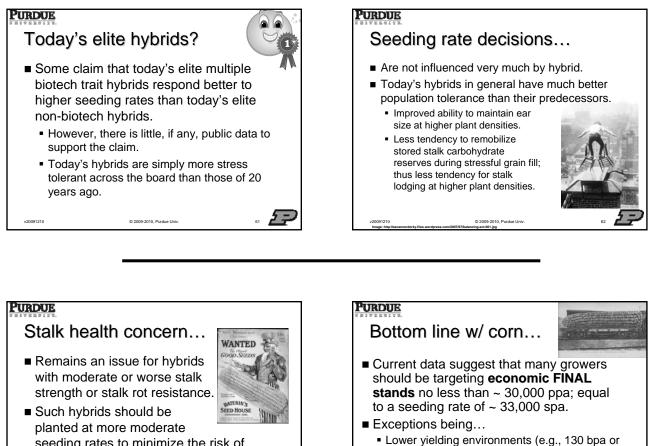
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less) where growers should target final

populations between ~ 24 to 30,000 ppa.
More northern areas where final stands may need to be 33,000 ppa or greater.

Image source: http © 2009-2010, Purdue Univ. 64 **2** 

seeding rates to minimize the risk of severe stalk lodging prior to harvest.

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