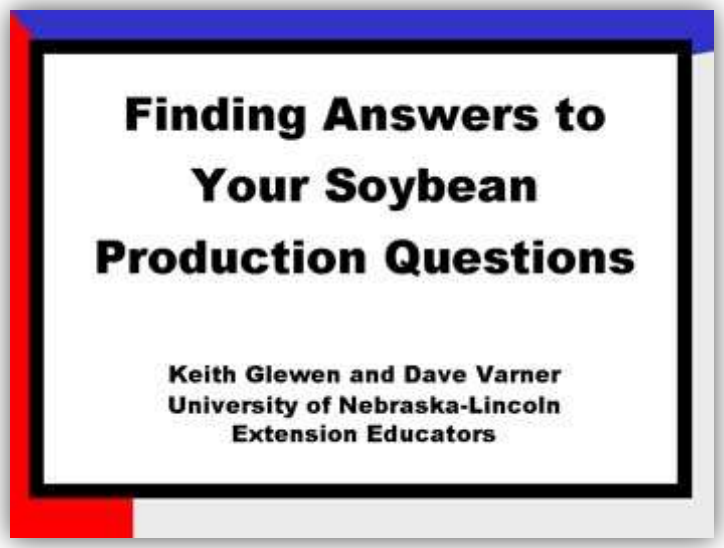
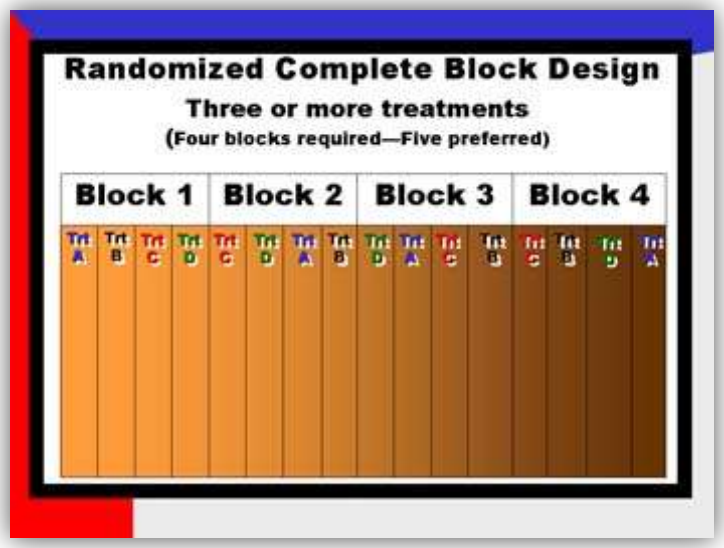
2006 SMFD

Finding Answers to Your Soybean Production Questions



06smfd-answers001



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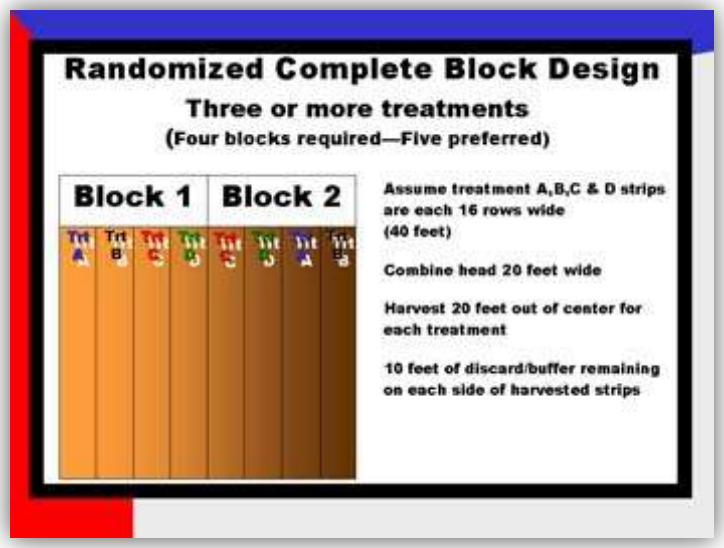

06smfd-answers003

06smfd-answers004

Benefits of Multi-year Comparisons

Crop	Year	No Lime	Lime	Prob >/T/
•Corn	1995	74	73	.59 ns
•Soybeans	1996	42	43	.32 ns
•Corn	1997	121	125	.10 *
•Soybeans	1998	50	58	.0002 ***
•Corn	1999	145	149	.177 ns
•Soybeans	2000	37	43	.0001 ***
•Corn	2001	130	132	.657 ns
•Soybeans	2002	43	50	.0003 ***
•Corn	2003	88	99	.016 **
•Soybeans	2004	41	44	.0067 ***
•Corn	2005	145	147	.306 ns

* Significant at the 90% confidence level *** Significant at the 99% confidence level
** Significant at the 95% confidence level ns Not significant

06smfd-answers005

The Power of Statistics

- Relationship of design and statistics
- Interpreting results
- What is significant?
- What is a confidence level?
- Where can I get help with statistics?

06smfd-answers006

ApronMax		CruiserMax
74.1P	← Pair →	75.9
77.1		78.2
76.3		77.9
75.7		76.3
73.5		75.3
75.1		75.0
73.3		74.6
75.7		77.9
76.8		78.8
75.3 bu/ac	Average	76.7 bu/ac

1.4 bushel yield difference is significant at 99% confidence interval!

06smfd-answers007

Value = Benefits – Costs

06smfd-answers008

UNL On-Farm Research Results

http://farmresearch.unl.edu

06smfd-answers009

Take Home Messages

- On-farm research allows you to test agronomic practices on your farm using your machinery and management system.
- Field comparison layout is key to successful research.
- Today's yield monitors and weigh-wagons make yield data collection convenient.

06smfd-answers010

Take Home Messages

- Good data leads to sound management decisions.
- Decisions should be based on multi-year comparisons.
- What is the cost:benefit ratio for each treatment?
- How will your management plan change based on the results?

06smfd-answers011

The Decision Making Process




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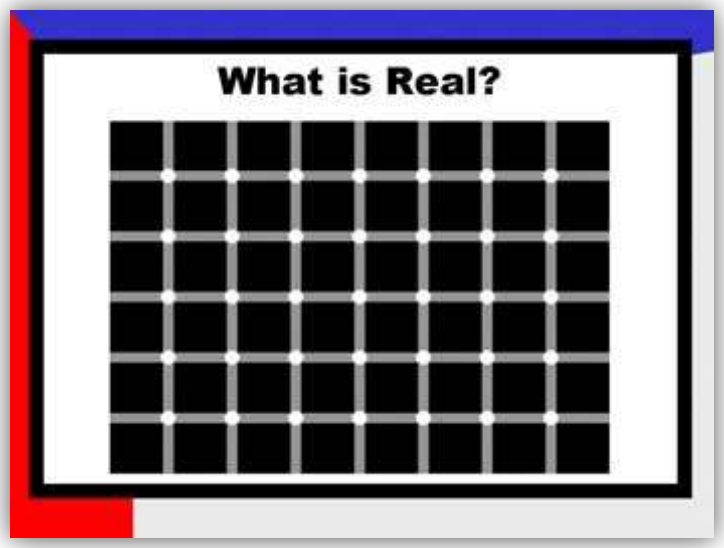

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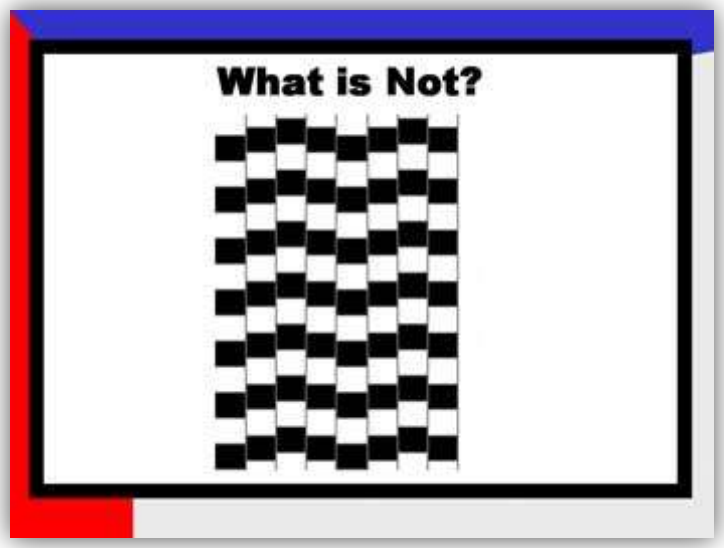

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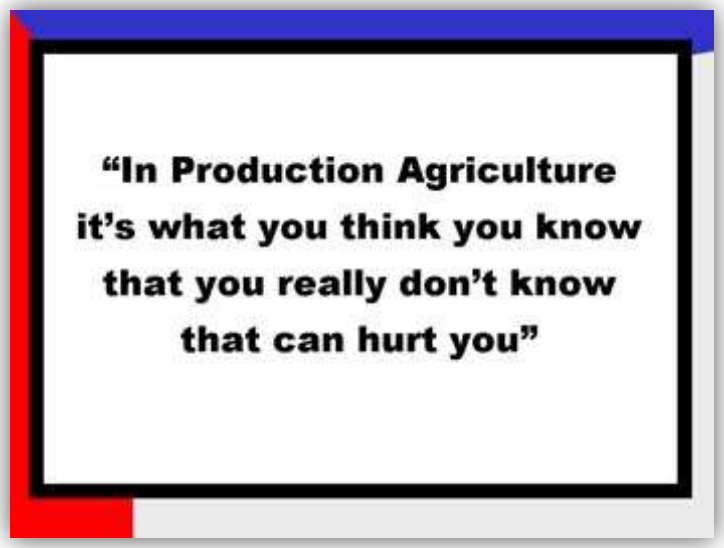

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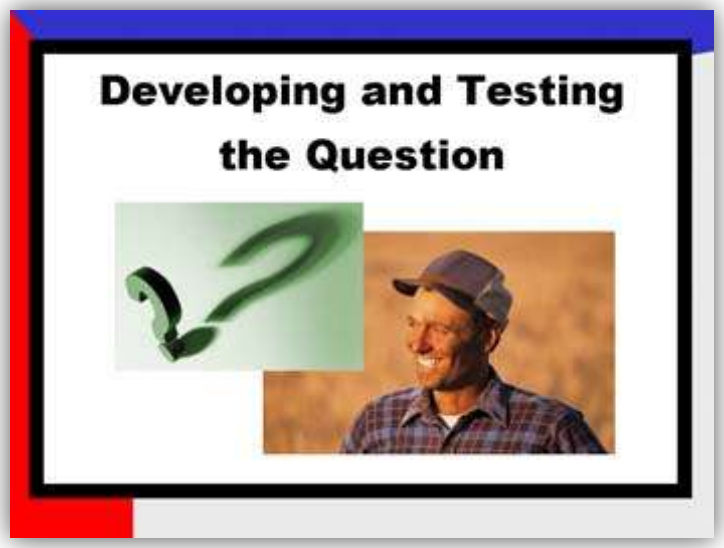

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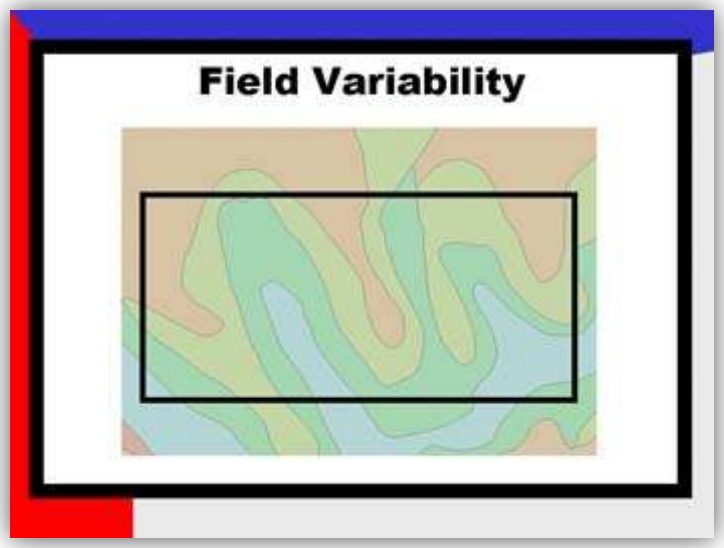

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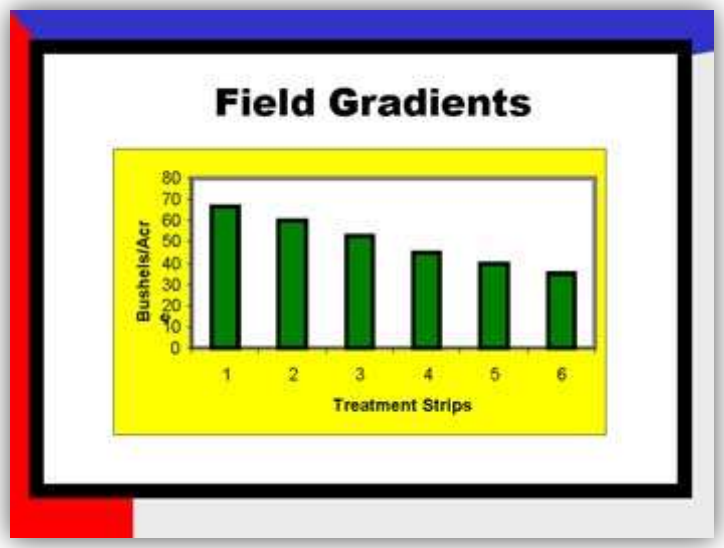

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06smfd-answers019