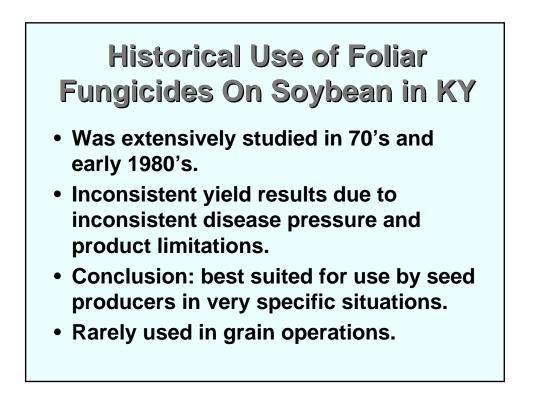


D. E. Hershman, D. W. Johnson, J. H. Herbek University of Kentucky, Princeton, KY



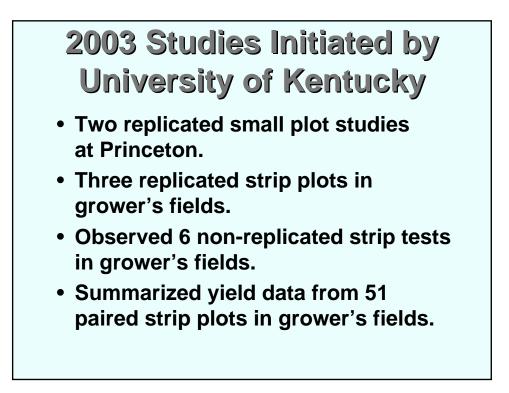




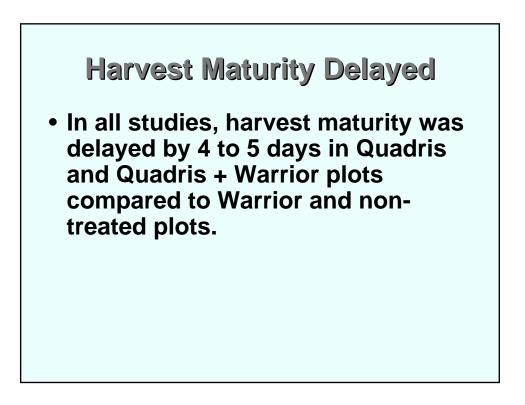
Quadris + Warrior 2002						
Syngenta data						
Cooperator	Address	Treated	Untreated	Difference		
Tom Benton	Mt. Vernon, IN	53 bu.	44 bu.	9 bu.		
Tom Benton	Mt. Vernon, IN	62 bu.	48 bu.	14 bu.		
Jeff Smith	Patoka, IN	58 bu.	52 bu.	6 bu.		
Bob Grogan	Arlington, KY	68 bu.	62 bu.	6 bu.		
Bob McIndoo	Henderson, KY	54 bu.	50 bu.	4 bu.		
Wischmeier Farms	Brownstown, IN	72 bu.	58 bu.	14 bu.		
Robt. Schwenke	Union, KY	74 bu.	69 bu.	5 bu.		
Billy Lear	Elkton, KY	52 bu.	41 bu.	11 bu.		
Porter/Brown	Beaver Dam, KY	64 bu.	63 bu.	1 bu.		
Cecilia KY location		41 bu.	38 bu.	3 bu.		
Rick Murdock	Murry, KY	49 bu.	41 bu.	8 bu.		
Curtis Hancock	Fulton, KY	50 bu.	43 bu.	7 bu.		
Kenny Davis	Clinton, KY	59 bu.	52 bu.	7 bu.		
	Average			6.8 bu.		

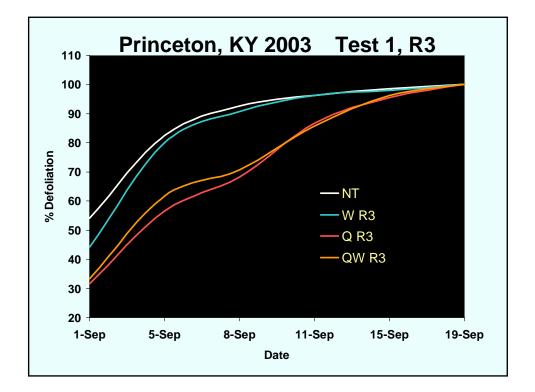
Pest Data Collected From 2002 Syngenta Strip Plots

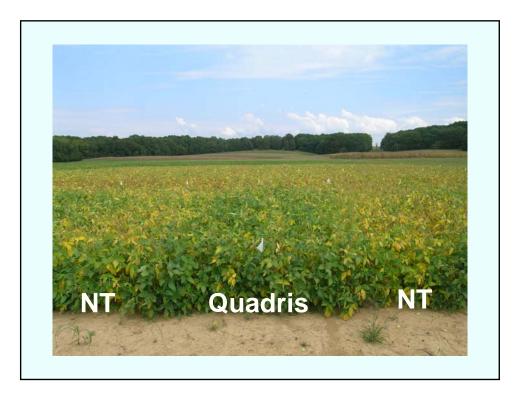
- Disease and insect pests: NONE
- Reason for yield increases: unknown.
- 2003: Syngenta initiated "Guarantee program" based on 2002 results.
- Target pest(s)?: None specific, many possible (prophylactic spray).
- Suppliers estimated that 30,000 acres would be treated in KY in 2003.



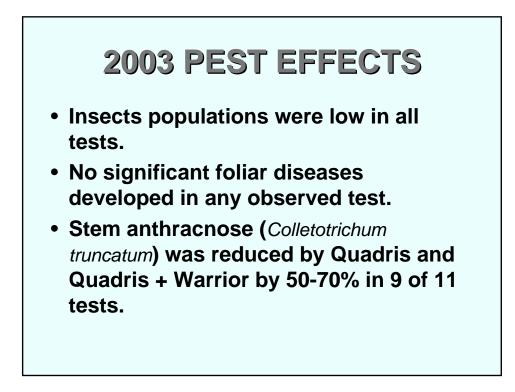


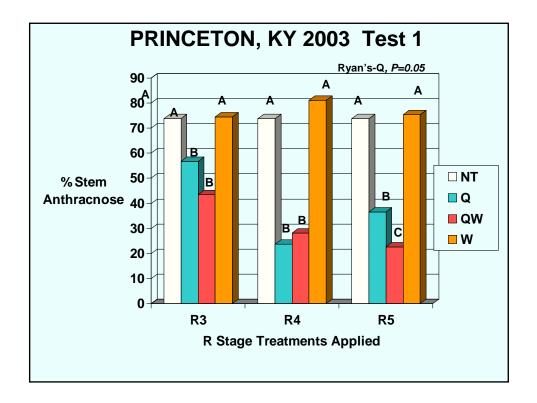




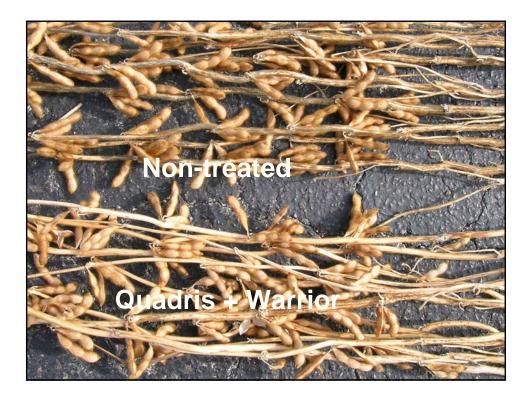


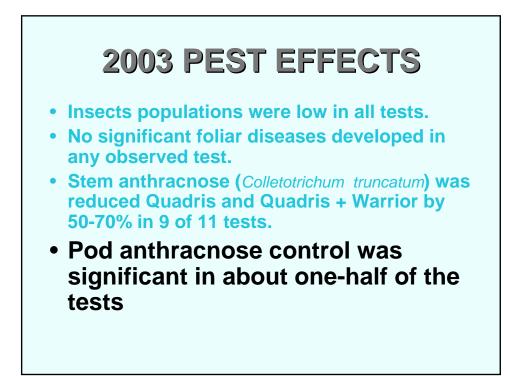


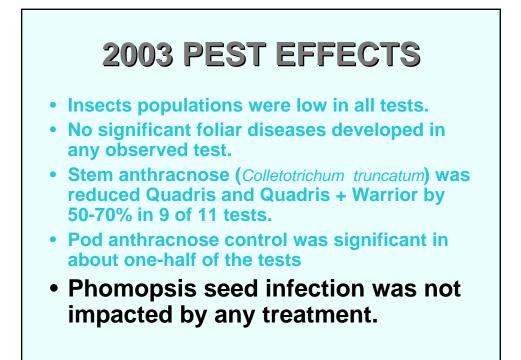


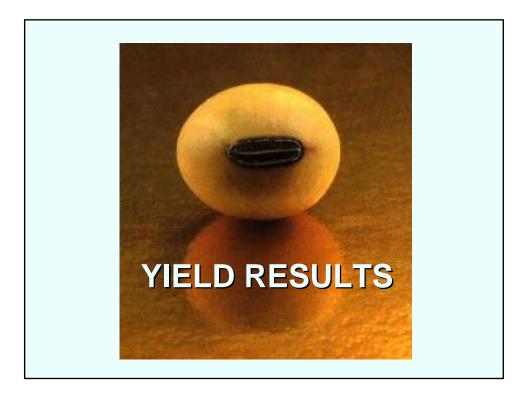


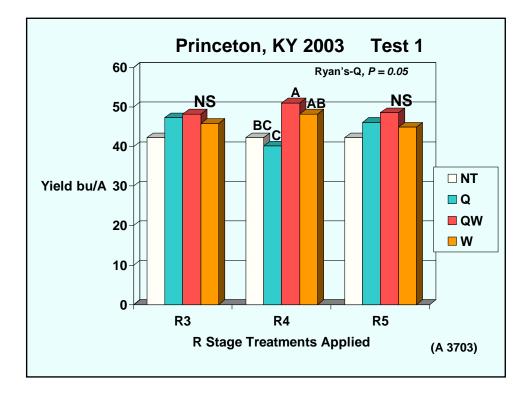
Six, Paired Cour	nty Strip
Trials, 2003.	
	% Stem
Freatment	disease*
Non-treated	41.1
Q+W	20.6
Q+Q Difference	-20.5%**
*Primarily anthracno	se
**ANOVA <i>P</i> < 0.002	











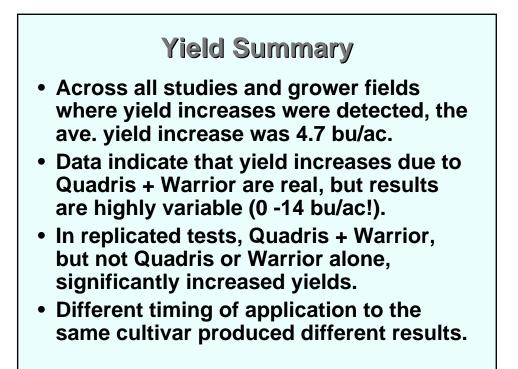
TEST 2 PRINCETON,	Yield
Treatment*	<u>(bu/ac)</u>
Non-treated	66.0b**
Quadris	68.5ab
Warrior	68.3ab
Quadris + Warrior	70.8a
Applied at R4 stage	
**Ryan's Q test, P=0.05	

Yield Resu Tests, 2003	•	prioates	
	<u>Farm no</u>	and yield	<u>d (bu/ac)</u>
Treatment	1	2*	3*
Q+W	54.7	44.0	45.9
Non-treated	48.0	44.0	<u>48.3</u>
Diff.Q+W	6.7 ns	0 ns	-2.4 ns
*Fields 2 and MG5's.	3 were dou	ble-crop	fields;

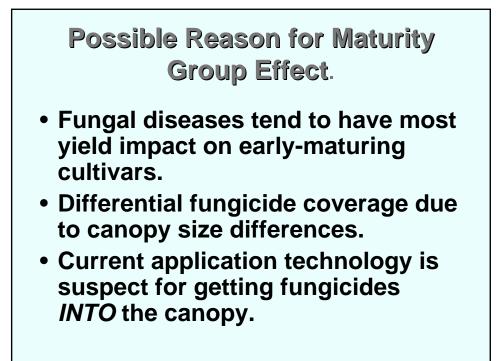
County Strip Trials	, 2003.
Treatment	Yield (bu/ac)
Quadris + Warrior	57.34
Non-treated	<u>53.92</u>
Q+W Difference	3.42*
*ANOVA <i>P</i> <u><</u> 0.02	

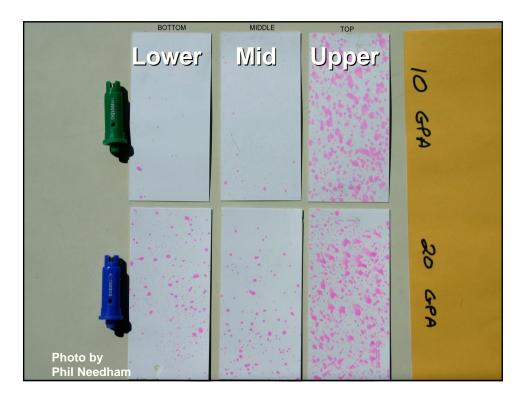
Yield Data From 51 Grower Fields, 2003.		
<u>Trt.</u>	Yield (bu/A)	
Quadris + Warrior	53.84	
Non-treated	49.21	
Q+W Difference	+4.63*	
*ANOVA <i>P</i> = 0.03		

Distribution of 2 Yield Data	003 County
<u>YId. Range</u>	<u>No.</u>
0 bu or <	2
+ 0.1 – 2	9
+ 2.1 – 4	12
+ 4.1 – 6	12
+ 6.1 – 8	11
+ 8.1 – 10	3
<u>+ 10.1 - 12.1</u>	2

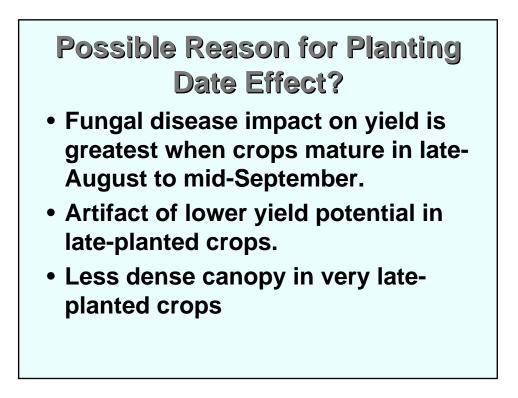


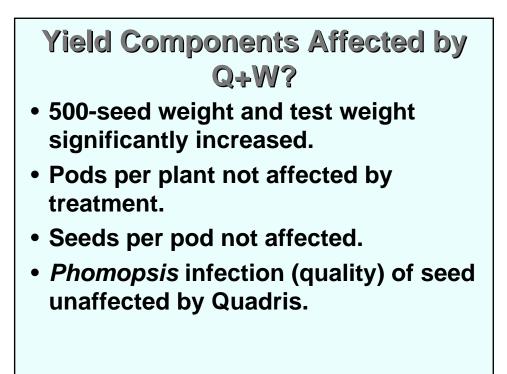
Maturity Grou Interaction De	etecte		ield
Trt	MG3	MG4	MG5
Quadris + Warrior	50.6	57.9	51.3
Non-treated	45.1	53.4	47.5
Q+W Diff.	5.5	4.5	3.8

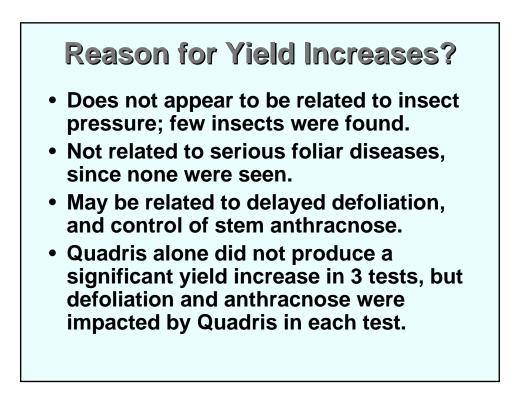


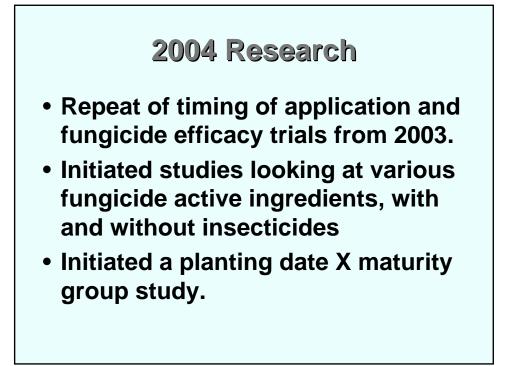


Planting Dat Interaction De		
	Yiel	d (bu/ac)
Trt	May	Late-June
Quadris + Warrior	53.3	49.4
Non-treated	48.7	<u>45.9</u>
Q+W Diff.	4.6	3.5











 Differences in defoliation curve related to treatment with Quadris or Quadris + Warrior not nearly as pronounced as in 2003.

Preliminary Pest Results from 2004

- Low levels of mid- and upper canopy diseases (brown spot, frogeye leaf spot, Cercospora leaf blight) slightly, but consistently, reduced where Quadris, and other modern fungicides are applied.
- Stem anthracnose markedly reduced by Quadris or Headline, with or without Warrior
- Insect pests at very low levels.

Partial, Preliminary Yield Results from 2004

- Timing Study: Appears that the R5 timing of the Quadris + Warrior application may be the only treatment to have produced a significant yield increase (8.5 bu/A).
- Quadris, Warrior at R5 and all treatments applied at R3-R5 had yield similar to the check.
- All treatments involving Quadris, at all application dates, reduced low level disease complex in lower to mid canopy.

Disease*						
Treatm	ent	Mid	Upper	%Stem	Yield	
Q + W	R3	2.3	2.8	29.2	59.9a**	
Q + W	R4	2.2	2.5	16.4	60.0a	
Q + W	R5	2.5	2.3	8.8	67.2b	
Q R5		2.8	2.3	9.8	59.1a	
W R5		3.2	3.5	53.3	60.0a	
Check		3.7	3.2	59.2	58.7	
W R5		3.2	3.5	53.3	60.0a	

