ILLINOIS PFR PRACTICAL FARM RESEARCH

Fungicide Study on Corn – 2007

RAINFALL	
April	5.54 in.
May	2.29 in.
June	2.83 in.
July	3.48 in.
August	2.09 in.
Total	16.23 in.

Planted: April 28, 2007
Harvested: October 20, 2007
Soil Type: Ipava Silt Loam
Population: 34,000 seeds/A.
Rows: Four 30" rows

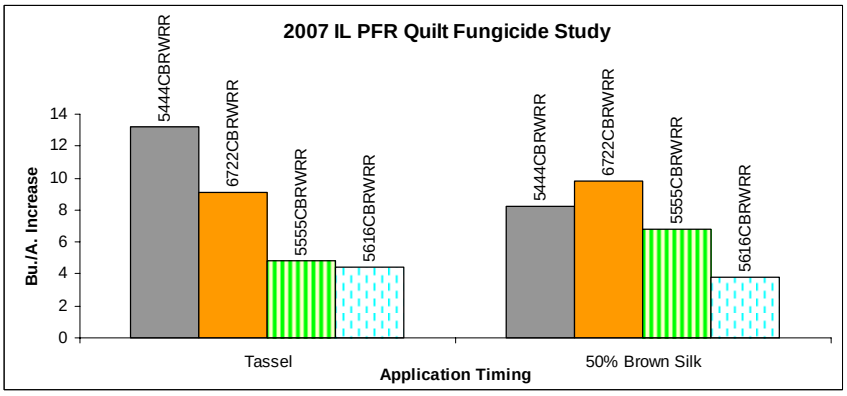
Previous Crop: Corn
Tillage: Field Cultivator
Herbicide: Degree Xtra / Roundup
Insecticide: 1 pt. Lorsban

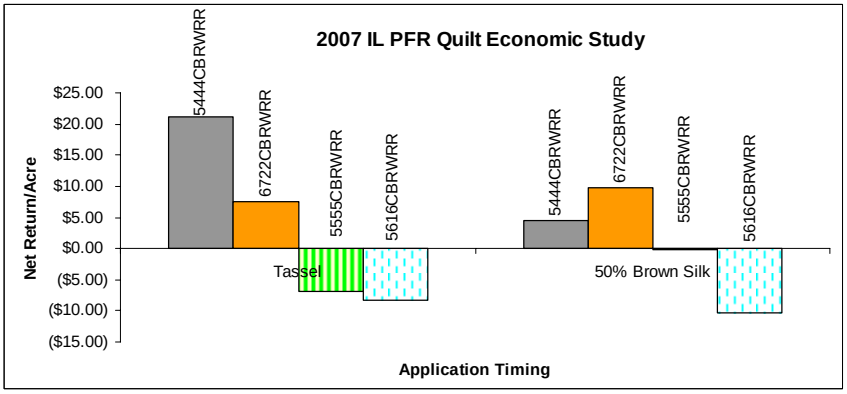
Purpose: To evaluate the performance of Headline and Quilt fungicide at two different application times on BECK 5444CBRWRR, BECK 6722CBRWRR, BECK 5616CBRWRR, and BECK 5555CBRWRR. Fungicide treatments were at the tassel stage and also at 50% brown silk. All applications were made with a 6500 John Deere ground applicator at 20 gallons/acre.

QUILT

Brand	Fungicide Application Timing	Bushels* Per Acre	Bu./A. Advantage	Gross Return	Net Return^
BECK 5616CBRWRR	Tassel	208.9	+4.4	$699.82	-$8.26
BECK 5616CBRWRR	50% Brown Silk	208.3	+3.8	$697.81	-$10.27
BECK 5616CBRWRR	None (Control)	204.5		$685.08	
BECK 5444CBRWRR	Tassel	210.5	+13.2	$705.18	$21.22
BECK 5444CBRWRR	50% Brown Silk	205.5	+8.2	$688.43	$4.47
BECK 5444CBRWRR	None (Control)	197.3		$660.96	
BECK 5555CBRWRR	Tassel	202.1	+4.8	$677.04	-$6.92
BECK 5555CBRWRR	50% Brown Silk	204.1	+6.8	$683.74	-$0.22
BECK 5555CBRWRR	None (Control)	197.3		$660.96	
BECK 6722CBRWRR	Tassel	219.5	+9.1	$735.33	$7.48
BECK 6722CBRWRR	50% Brown Silk	220.2	+9.8	$737.67	$9.83
BECK 6722CBRWRR	None (Control)	210.4		$704.84	
AVERAGE		207.4			

*Bushels per acre corrected to 15% moisture. Plot weighed by BECK'S Hybrids – Jason Webster. Quilt cost = $23.00/A. Corn Price: $3.35/Bu.
^Net Return = Gross Return - Fungicide Cost - Gross Return of Control.





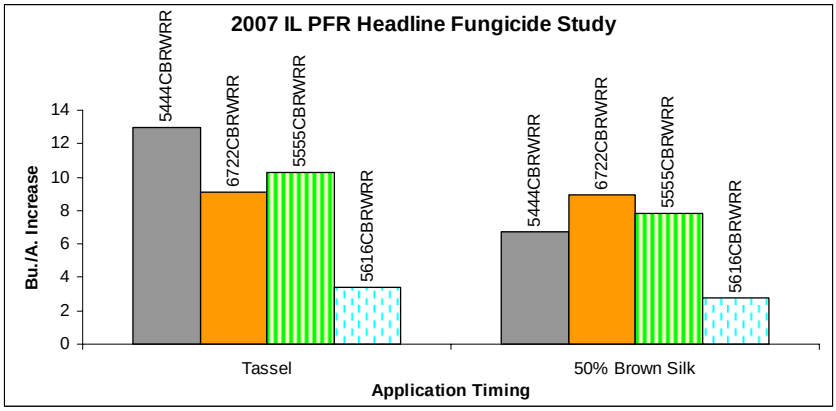
ILLINOIS PFR PRACTICAL FARM RESEARCH

Fungicide Study on Corn – Continued

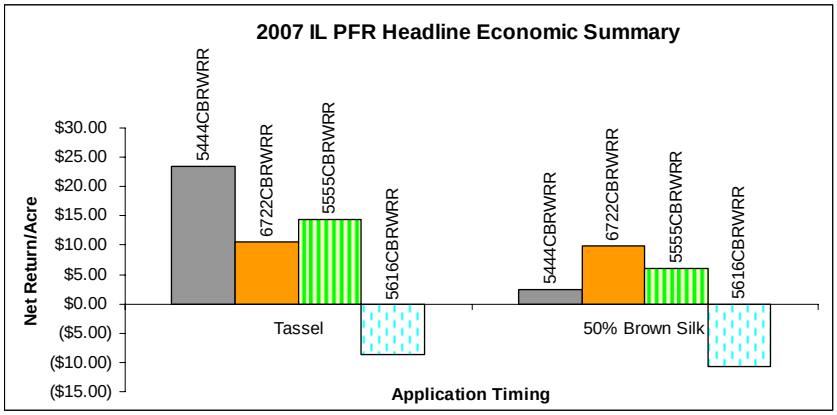
HEADLINE

Brand	Fungicide Application Timing	Bushels* Per Acre	Bu./A. Advantage	Gross Return	Net Return^
BECK 5616CBRWRR	Tassel	207.9	+3.4	$696.47	-$8.61
BECK 5616CBRWRR	50% Brown Silk	207.3	+2.8	$694.46	-$10.62
BECK 5616CBRWRR	None (Control)	204.5		$685.08	
BECK 5444CBRWRR	Tassel	210.3	+13.0	$704.51	$23.55
BECK 5444CBRWRR	50% Brown Silk	204.0	+6.7	$683.40	$2.44
BECK 5444CBRWRR	None (Control)	197.3		$660.96	
BECK 5555CBRWRR	Tassel	207.6	+10.3	$695.46	$14.50
BECK 5555CBRWRR	50% Brown Silk	205.1	+7.8	$687.09	$6.13
BECK 5555CBRWRR	None (Control)	197.3		$660.90	
BECK 6722CBRWRR	Tassel	219.5	+9.1	$735.33	$10.49
BECK 6722CBRWRR	50% Brown Silk	219.3	+8.9	$734.66	$9.82
BECK 6722CBRWRR	None (Control)	210.4		$704.84	
AVERAGE		207.4			

*Bushels per acre corrected to 15% moisture. Plot weighed by BECK'S Hybrids – Jason Webster. Headline cost = $ 20/A. Corn Price = $3.35/Bu.
^Net Return = Gross Return - Fungicide Cost - Gross Return of Control.



Summary: Headline and Quilt applications overall increased yields by an average of 7.75 Bu./A. and 7.5 Bu./A. respectively. For economic return, fungicide applications needed to yield an additional 6-6.8 Bu./A.



In evaluating application timing, economic returns with Headline were $9.98/A. at the Tassel application and only $1.94/A. at the 50% Brown Silk application. Quilt returned $3.23/A. at the Tassel application and only $0.95/A. at the Brown Silk application.

In evaluating hybrid performance, BECK 5444CBRWRR received the most benefit from Tassel applications and returned over $20/A. with both Quilt and Headline, while Brown Silk applications returned nearly $5.00/A. BECK 6722CBRWRR responded by returning nearly $10.00/A. with both Headline and Quilt and at both application timings. BECK 5555CBRWRR responded by yielding 8-10 Bu./A. more with Headline and returned an average of $10.13/A., however, Quilt applications returned an average loss of -$3.57/A. BECK 5616CBRWRR showed the least economic benefit by yielding only 3-4 Bu./A. more on average and realizing an average economic loss of -$9.44/A. with both products and application timings.

This study once again proves that knowing how corn hybrids respond to leaf diseases can help make timely and prudent management decisions to help determine which fields or hybrids need to be sprayed with a corn fungicide.