



Quadris Fungicide Soybean Plot Data 2006

(Conducted in the Counties of Monroe, La Crosse, and Trempealeau)

Prepared by Bill Halfman and Steve Huntzicker

In the growing season of 2006, Monroe, La Crosse and Trempealeau county UW-Extension Agriculture Agents Bill Halfman, Steve Huntzicker, Jon Zander, and UW IPM specialist Bryan Jensen conducted Quadris foliar application trials on soybeans. The purpose for the research was to help determine if there is significant yield and economic advantage for growers to use the fungicide Quadris on soybeans for improved plant health. With the help of local farmers from each county, these five on-farm research trials contained three replicated treated and untreated strips on each field.

All five fields were sprayed with Quadris at the recommended rate of 6/oz per acre, with 1% COC at a minimum of 20 gallons to the acre. The timing of this spraying occurred during the late R2 to R3 stage of the soybean growth. Visual plant disease ratings were taken during the R6 stage of growth. Yield data was collected from each sprayed and unsprayed strip.

Only one site resulted in a statistically significant difference in yield. None of the sites yield increases were economically advantageous.

In summary growing conditions in 2006 did not show any advantage to foliar application of the fungicide Quadris to soybeans. There is still a lot to learn about predicting success with the use of foliar fungicides on soybeans.

See attached data sheets for detailed results from each location. Please feel free to contact any of the agents listed below for more information or if you have questions. In summary

On behalf of all of the UW-Extension staff that were involved we would like to especially thank the following people/businesses for their part in allowing us to conduct these trials. Without cooperators like these we would not be able to conduct this type of research.

Cooperating farms: Tom and Paul Zastoupil, Bill Wacker (2 fields), Ken Jereczek, and Loren and Jason Schwier.

Quadris Product Donation: Mark Myers- Syngenta

Sprayers: West Salem Farmers Coop, Tomah Coop, Sparta Coop, Arcadia Coop

Weigh Wagons: Brent Bailey- Pioneer Seeds, West Salem Farmers Coop, Arcadia Coop

Individual field results for Quadris treated fields. All fields had 3 reps.

Grower: Schwier	
Treatment	Yield Bu/a ^a
Quadris	57.46 a
UTC	54.96 a

^a Means within a column followed by the same letter are not significantly different (P=0.05, Duncan's Multiple Range Test).

Grower: Jereczek	
Treatment	Yield Bu/a ^a
Quadris	55.17 a
UTC	52.3 a

^a Means within a column followed by the same letter are not significantly different (P=0.05, Duncan's Multiple Range Test).

Grower: Wacker (drilled)	
Treatment	Yield Bu/a ^a
Quadris	53.4 a
UTC	52.0 a

^a Means within a column followed by the same letter are not significantly different (P=0.05, Duncan's Multiple Range Test).

Grower: Wacker (30 inch rows)	
Treatment	Yield Bu/a ^a
Quadris	50.6 a
UTC	48.6 b

^a Means within a column followed by the same letter are not significantly different (P=0.05, Duncan's Multiple Range Test).

Grower: Zastoupil	
Treatment	Yield Bu/a ^a
Quadris	50.9 a
UTC	48.8 a

^a Means within a column followed by the same letter are not significantly different (P=0.05, Duncan's Multiple Range Test).

Soybean Disease Trials Datasheet

Cooperator: Steve Huntzicker—Schwier Farm

County: La Crosse

Variety: NK S20-F8

Planting Date: 4/20/06

Maturity: 2.0

Date of 1st application: 7/26/06

Crop Stage: R3

Fungicide: Quadris

Yield Data

Treatment	REP	Yield (BU/A)	Moisture (%)
Quadris	1	58.2	9.4
UTC	1	53.9	9.4
Quadris	2	56.4	9.0
UTC	2	54.7	9.2
Quadris	3	57.8	9.0
UTC	3	56.3	9.4

Field Observations (R6) Schwier Farm

Treatment	REP	% diseased foliage				Overall Plant health rating % necrotic tissue
		Soybean Rust	Brown Spot	Downy Mildew	Other	
Quadris	1	0	1	>1		
UTC	1	0	2	>1		
Quadris	2	0	1	>1		
UTC	2	0	2	>1		
Quadris	3	0	1	>1		
UTC	3	0	2	>1		

Soybean Disease Trials Datasheet

Cooperator Ken Jereczek

County Trempealeau

Variety NK S19-V2 Planting Date _____

Maturity 1.9

Date of 1st application 7-27-06 Crop Stage R3

Fungicide (circle one) **Quadris**

Date of 2nd application none Crop Stage _____

Planted in 30 in rows

Yield Data

Treatment	REP	Yield (BU/A)	Moisture (%)
Quadris	1	54.1	14.2
UTC	1	47.9	14.3
Quadris	2	56.4	14.2
UTC	2	53.6	14
Quadris	3	55.0	14.4
UTC	3	55.4	14.2

Field Observations At R6

Treatment	REP	% diseased foliage				Overall Plant health rating (% necrotic tissue)
		Soybean Rust	Brown Spot	Downy Mildew	Other	
Quadris	1	0	4	5		9
UTC	1	0	4	5		9
Quadris	2	0	4	10		14
UTC	2	0	4	5		9
Quadris	3	0	4	5		9
UTC	3	0	4	10		14

Soybean Disease Trials Datasheet

Cooperator Bill Wacker

County Monroe

Variety Dahlco 9161 RR May 23

Maturity 1.6

Date of 1st application 7/25/06 Crop Stage R3

Fungicide (circle one) **Quadris**

Date of 2nd application none Crop Stage _____

Data for Drilled Soybean plot planted at about 200,000 seeds per acre

Yield Data

Treatment	REP	Yield (BU/A)	Moisture (%)
Quadris	1	51.9	12.6
UTC	1	54.8	12.3
Quadris	2	55.7	12.3
UTC	2	52.1	12.0
Quadris	3	52.6	12.0
UTC	3	49.1	12.0

Field Observations At R6

Treatment	REP	% diseased foliage				Overall Plant health rating (% necrotic tissue)
		Soybean Rust	Brown Spot	Downy Mildew	Other	
Quadris	1	0	2	0		2
UTC	1	0	4	0		4
Quadris	2	0	2	0		2
UTC	2	0	4	0		4
Quadris	3	0	2	0		2
UTC	3	0	4	0		4

Soybeans at this location had leaves turn yellow and drop at the same time, there was no difference between treatments in senescence.

Soybean Disease Trials Datasheet

Cooperator Bill Wacker

County Monroe

Variety Dahlco 9161 RR May 23

Maturity 1.6

Date of 1st application 7/25/06 Crop Stage R3

Fungicide (circle one) **Quadris** Quadris at a 6 oz. rate per acre with 1% COC added into the tank.

Date of 2nd application none Crop Stage _____

Data for Drilled Soybean plot planted in 30" rows at about 137,000 seeds per acre

Yield Data

Treatment	REP	Yield (BU/A)	Moisture (%)
Quadris	1	48.2	11.7
UTC	1	45.8	12.2
Quadris	2	51.6	11.7
UTC	2	50.5	11.9
Quadris	3	52.1	11.7
UTC	3	49.5	11.7

Field Observations At R6

Treatment	REP	% diseased foliage				Overall Plant health rating (% necrotic tissue)
		Soybean Rust	Brown Spot	Downy Mildew	Other	
Quadris	1	0	1	0		1
UTC	1	0	2	0		2
Quadris	2	0	1	0		1
UTC	2	0	2	0		2
Quadris	3	0	1	0		1
UTC	3	0	2	0		2

Soybeans at this location had leaves turn yellow and drop at the same time, there was no difference between treatments in senescence.

Soybean Disease Trials Datasheet

Cooperator Tom and Paul Zastoupil

County Monroe

Variety Renk RK 185 treated w/ Apron Max, Planting Date May 23

Maturity 1.8

Date of 1st application 7/24/06 Crop Stage R3

Fungicide (circle one) **Quadris**

Date of 2nd application none Crop Stage _____

Yield Data

Treatment	REP	Yield (BU/A)	Moisture (%)
Quadris	1	53.0	14.6
UTC	1	50	13.6
Quadris	2	47.7	13.5
UTC	2	50.7	11.7
Quadris	3	52.0	15.4
UTC	3	45.8	11.9

Field Observations At R6

Treatment	REP	% diseased foliage				Overall Plant health rating (% necrotic tissue)
		Soybean Rust	Brown Spot	Downy Mildew	Other	
Quadris	1	0	2	0		2
UTC	1	0	2	0		2
Quadris	2	0	2	0		2
UTC	2	0	2	0		2
Quadris	3	0	2	0		2
UTC	3	0	2	0		2

There was a considerable amount of antracnose on the stems at harvest in both treated and untreated strips. It was the same amount of antracnose in both treatments. Soybeans at this location had leaves turn yellow and drop at the same time, there was no difference between treatments in senescence.