

2006 Headline On-Farm Results

Purpose: Determine the value of Headline fungicide as a product which improves or protects soybean health.

Procedure. Headline foliar fungicide was applied at the rate of 6 oz./A (plus 1 pt. NIS /100 gallons of water) to soybean on large scale side-by-side strip trials and compared to an untreated check at nine locations throughout Wisconsin. The number of replications was to be determined by the grower and cooperator. Yields were taken using the growers combine in conjunction with yield monitors, weigh pads or weigh wagons.

Due to catastrophic environmental conditions, not all plot data was used in the statistical analysis. The “+” symbol indicates the data was used in statistical analysis of the yield, the “-“ symbol indicates that yield data was not used

Cooperator	Location (County)	Number of Reps/location	Plot conditions
John Gaska	Columbia	4	+
Richard Proost	Fond du Lac		- (drought)
Richard Proost	Dane	3	+
Richard Proost	Kenosha	3	+
Karen Talarczyk	Green	2	+
Karen Talarczyk	Green	2	+
Paul Kivlin	Polk		- (drought)
Paul Kivlin	St. Croix		- (drought)
Bill Halfman	Monroe		- (hail)
Mike Bertram	Wood	2 reps each of two maturity groups	+

Yield Results of on-farm research plots using Headline to improve Soybean Yields. 2006

Treatment	Yield (bu/a) ^a
Headline	56.20 a
UTC	53.36 b

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

Data Analysis for individual fields

Grower: Mike Bertram, Marshfield Research Station	
Treatment	Yield Bu/a ^a
Pioneer 91M51 (1.5 RM) + Headline	56.21 a
Pioneer 91M51 (1.5 RM)	49.85 b
Croplan RT0899 (0.8RM) + Headline	53.99 a
Croplan RT0899 (0.8RM)	48.94 b

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

Grower: John Gaska, Arlington Agricultural Research Station	
Treatment	Yield Bu/a ^a
Headline	55.50 a
UTC	52.65 a

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

Cooperator: Proost, Dane County	
Treatment	Yield Bu/a ^a
Headline	63.6 a
UTC	62.3 a

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

Cooperator: Talarczyk, Green County	
Treatment	Yield Bu/a ^a
Headline	52.8 a
UTC	47.15 b

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

Cooperator: Talarczyk, Green County	
Treatment	Yield Bu/a ^a
Headline	60.7 a
UTC	59.45 a

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

Cooperator: Proost, Walworth County	
Treatment	Yield Bu/a ^a
Headline	50.5 a
UTC	50.7 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 Karen Talarczyk

County Green

Variety Asgrow 2406, Planting Date 5/6/06

Maturity _____

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

Fungicide (circle one) XXXXHeadline Headline SBR

Date of 2nd application _____ Crop Stage _____

Fungicide (circle one) Headline Headline SBR

Yield Data

Treatment	REP	Yield (BU/A)	Moisture (%)
Headline	1	59.0	12.2
UTC	1	59.6	11.9
Headline	2	62.4	12.0
UTC	2	59.3	12.4

Field Observations At R6

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

Soybean Disease Trials Datasheet

Cooperator Mike Bertram- Marshfield Ag. Research Station

County Wood, WI

Variety Pioneer 91M51, Croplan RT0899, Planting Date May 8, 2006

Maturity 1.5, 0.8

Date of 1st application July 26, 2006 Crop Stage R3

Fungicide (circle one) Headline Headline SBR

Yield Data

Treatment	REP	Yield (BU/A @ 13%)	Moisture (%)	Test Wt (lb)
Headline 1.5 RM	1	56.31	15.0	58.0
Headline 0.8 RM	1	54.94	15.0	58.5
UTC 0.8 RM	1	48.17	15.5	58.0
UTC 1.5 RM	1	49.65	15.0	58.0
Headline 1.5 RM	2	56.10	15.0	58.5
Headline 0.8 RM	2	53.04	15.0	58.5
UTC 0.8 RM	2	49.71	15.0	58.0
UTC 1.5 RM	2	50.05	15.0	58.0

Field Observations At R6; Bertram continued

Treatment	REP	% diseased foliage				Overall Plant health rating (% necrotic tissue)
		Soybean Rust	Brown Spot	Downy Mildew	Other	
Headline 1.5 RM	1		5			5
Headline 0.8 RM	1		5			5
UTC 0.8 RM	1		20			20
UTC 1.5 RM	1		15			15
Headline 1.5 RM	2		5			5
Headline 0.8 RM	2		5			5
UTC 0.8 RM	2		20			20
UTC 1.5 RM	2		25			25

Soybean Disease Trials Datasheet

Cooperator : John Gaska – UW Madison Agronomy Dept.

County : Columbia

Variety: Asgrow AG1102 Planting Date: 7-May-2006

Maturity:1.1

Date of 1st application: 2-Aug-2006 Crop Stage: R3

Fungicide (circle one)

Headline

Headline SBR

Date of 2nd application None

Crop Stage _____

Fungicide (circle one)

Headline

Headline SBR

Yield Data

Treatment	REP	Yield (BU/A)	Moisture (%)
Headline	1	55.7	14.2
UTC	1	49.6	14.1
Headline	2	60.0	13.9
UTC	2	57.1	13.9
Headline	3	50.2	15.2
UTC	3	52.8	14.6
Headline	4	56.1	14.3
UTC	4	51.1	14.3

Field Observations At R6/ Arlington/Gaska results continued.

Treatment	REP	% diseased foliage				Leaf Retention %
		Soybean Rust	Brown Spot	Downy Mildew	BSR 0-11	
Headline	1				4	50
UTC	1				3	10
Headline	2				7	40
UTC	2				6	5
Headline	3				5	60
UTC	3				2	15
Headline	4				2	35
UTC	4				4	10

Yield Results from Headline Plot –Proost, Bristol, WI

	Check 1	Check 2	Check 3	Check 4	Headline 1	Headline 2	Headline 3	Headline 4
Area harvested (acres)	0.42	0.42	0.42	0.42	0.42	0.42	0.42	Missing
Total yield (lbs)	1250	1270	1250	1320	1220	1260	1270	Missing
Moisture (%)	11.8	11.7	11.8	11.7	11.8	11.7	11.6	Missing
Yield at 13% (Bu/a)	50.39	51.25	50.39	53.27	49.18	50.85	51.31	Missing
	Moisture					Yield		
Check average	11.7%					51.3 bu/a		
Headline Average	11.7%					50.4 bu/a		
Difference	0					- 0.9		

There seemed to be a bit more leaf retention in this plot, but I didn't notice in difference in plant color. . This plot was sprayed at R3 with Headline.

Yield Results from Headline Plot –Proost, Stoughton, WI

There were no observable differences in this field. I looked at it weekly through senescence. This plot was sprayed at R3 with Headline. Variety was Pioneer 92M72.

	Check 1	Check 2	Check 3	Headline 1	Headline 2	Headline 3
Area harvested (acres)	0.52	0.52	0.52	0.52	0.52	0.52
Total yield (lbs)	1920	1915	1900	1965	1940	1940
Moisture (%)	12.1	12.1	12.5	11.6	12.1	12.8
Yield at 13% (Bu/a)	62.6	62.5	61.8	64.5	63.4	62.9
	Moisture			Yield		
Check average	12.2%			62.3 bu/a		
Headline Average	12.2%			63.6 bu/a		
Difference	0			+ 1.3		