

The Effect of Variety, Planting Date, and Weed Height on Weed Control and Grain Yield of Roundup Ready Soybean.

Project Code: 05-2A-W270-PD1 Location: Belleville Research Center

Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
 Trial Status: Final Updated: 11-03-05

Objective:

Evaluate the effect of soybean variety, planting date, and weed height at postemergence application on weed control and grain yield in Roundup Ready soybean.

Weed Code	Common Name	Scientific Name
1.	SETFA foxtail, giant	Setaria faberi Herrm.
2.	XANST cocklebur, common	Xanthium strumarium L.
3.	AMBEL ragweed, common	Ambrosia artemisiifolia L.
4.	AMATA waterhemp, common	Amaranthus rudis Sauer
5.	ABUTH velvetleaf	Abutilon theophrasti Medicus

Crop 1: GLXMA soybean Variety: See treatment list
 Planting Method: Seeded Planting Date: 5-18-05
 Rate: 75 lb/A Depth: 1.0 IN
 Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 28 FT Reps: 3
 Tillage Type: Reduced-Till Study Design: Split-block
 Previous Crop, Year: ZEAMX, 2004

Field Prep./Maintenance: N 0 LB/A, P205 50 LB/A, K20 100 LB/A

Soil Name: Weir % OM: 1.6 pH: 6.2 CEC: 7
 Texture: Silt loam Fert. Level: P1: 93 LB/A, K: 448 LB/A

APPLICATION DESCRIPTION

	A	B	C	D	E	F	G	H
Application Date:	05-18-05	06-09-05	06-10-05	06-17-05	06-22-05	07-08-05	07-18-05	07-06-05
Time of Day:	13:30	10:00	13:45	11:50	8:30	10:00	10:00	9:30
Application Method:	Spray	Spray	Spray	Spray	Spray	Spray	Spray	Spray
Application Timing:	PRE	2-4"W	0-5"W	5-10"W	10-15"W	15-20"W	20-25"W	3WA0-5"-IN
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	78 F	77 F	87 F	76 F	76 F	82 F	79 F	78 F
% Relative Humidity:	30	70	51	50	80	46	84	41
Wind Velocity, Unit:	11 MPH	3-4 MPH	4-5 MPH	3 MPH	2 MPH	0 MPH	3 MPH	0-2 MPH
Soil Moisture:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	ABONOR	ABONOR
	I	J	K	L				
Application Date:								
Time of Day:								
Application Method:	Spray	Spray	Spray	Spray				
Application Timing:	3WA5-10"-IN	3WA10-15"-IN	3WA15-20"-IN	3WA20-25"-IN				
Applic. Placement:	BROFOL	BROFOL	BROFOL	BROFOL				
Air Temp., Unit:								
% Relative Humidity:								
Wind Velocity, Unit:								
Soil Moisture:								

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F	G	H
Crop 1 Code, Stage:	GLXMA NA	GLXMA V1	GLXMA V1	GLXMA V2-V3	GLXMA V3	GLXMA R1	GLXMA R2	GLXMA V6
Height, Unit:	NA NA	3-4 IN	3-4 IN	7-8 IN	8 IN	15 IN	20-24 IN	10-11 IN
	I	J	K	L				
Crop 1 Code, Stage:	GLXMA NA	GLXMA NA	GLXMA NA	GLXMA NA				
Height, Unit:	NA NA	NA NA	NA NA	NA NA				

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F	G	H
Weed 1 Code:		SETFA	SETFA	SETFA	SETFA	SETFA	SETFA	SETFA
Stage (leaves):		4-6	4-6	5-7	6-8	9-10	10+	4-6
Height (inches):		3-6	3-6	5-8	9-13	12-15	20-24	3-5
Density:		High	Medium	High	High	High	High	Medium
Weed 2 Code:		XANST	XANST	XANST	XANST	XANST	XANST	XANST
Stage (leaves):		4-7	4-7	5-7	6-8	7-9	10+	4-6
Height (inches):		3-5	3-5	7-8	9-12	10-15	20-25	4-5
Density:		Medium	Medium	Medium	Low	Low	Low	Medium
Weed 3 Code:		AMBEL	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL
Stage (leaves):		4-8	4-8	6-8	8-12	10-12	10+	6-8
Height (inches):		2-3	2-3	6-8	9-12	12-14	20-24	4-5
Density:		Medium	Medium	Medium	Medium	Medium	Medium	Low
Weed 4 Code:			AMATA	AMATA	AMATA	AMATA	AMATA	AMATA
Stage (leaves):			4-7	7-10	6-8	10-12	10+	9-10
Height (inches):			1-3	5-8	6-8	9-11	20-24	4-5
Density:			Low	Low	Low	Low	Low	Medium
Weed 5 Code:		ABUTH	ABUTH		ABUTH	ABUTH	ABUTH	ABUTH
Stage (leaves):		3-5	3-5		3-5	6-8	10+	3-4
Height (inches):		1-2	1-2		7-9	12-14	20-24	3-5
Density:		Low	Low		Low	Low	Low	Low

The Effect of Variety, Planting Date, and Weed Height on Weed Control and
Grain Yield of Roundup Ready Soybean.

Project Code: 05-2A-W270-PD1 Location: Belleville Research Center

Investigator: Bryan Young

	I	J	K	L
Weed 1 Code:				
Stage (leaves):				
Height (inches):				
Density:				

Weed 2 Code:
Stage (leaves):
Height (inches):
Density:

Weed 3 Code:
Stage (leaves):
Height (inches):
Density:

Weed 4 Code:
Stage (leaves):
Height (inches):
Density:

Weed 5 Code:
Stage (leaves):
Height (inches):
Density:

APPLICATION EQUIPMENT

	A		B		C		D		E		F		G		H	
Appl. Equipment:	CO2	sprayer	CO2	sprayer	CO2	sprayer	CO2	sprayer	CO2	sprayer	CO2	sprayer	CO2	sprayer	CO2	sprayer
Operating Pressure:	40	PSI	40	PSI	40	PSI	40	PSI	40	PSI	40	PSI	40	PSI	40	PSI
Nozzle Type:	Flat	fan	Flat	fan	Flat	fan	Flat	fan	Flat	fan	Flat	fan	Flat	fan	Flat	fan
Nozzle Size:	8003		8002		8002		8002		8002		8002		8002		8002	
Boom Length, Unit:	10	FT	10	FT	10	FT	10	FT	10	FT	10	FT	10	FT	10	FT
Spray Volume, Unit:	20	GPA	20	GPA	20	GPA	20	GPA	20	GPA	20	GPA	20	GPA	20	GPA

	I		J		K		L	
Appl. Equipment:	CO2	sprayer	CO2	sprayer	CO2	sprayer	CO2	sprayer
Operating Pressure:	40	PSI	40	PSI	40	PSI	40	PSI
Nozzle Type:	Flat	fan	Flat	fan	Flat	fan	Flat	fan
Nozzle Size:	8002		8002		8002		8002	
Boom Length, Unit:	10	FT	10	FT	10	FT	10	FT
Spray Volume, Unit:	20	GPA	20	GPA	20	GPA	20	GPA

NOTES:

For planting date 1, applications I-L were not needed, not applied.
See next page for Planting Date 2 details.

The Effect of Variety, Planting Date, and Weed Height on Weed Control and Grain Yield of Roundup Ready Soybean.

Project Code: 05-2A-W270-PD2 Location: Belleville Research Center

Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
 Trial Status: Final Updated: 11-03-05

Objective:

Evaluate the effect of soybean variety, planting date, and weed height at postemergence application on weed control and grain yield in Roundup Ready soybean.

Weed Code	Common Name	Scientific Name
1.	SETFA foxtail, giant	Setaria faberi Herrm.
2.	XANST cocklebur, common	Xanthium strumarium L.
3.	AMBEL ragweed, common	Ambrosia artemisiifolia L.
4.	AMATA waterhemp, common	Amaranthus rudis Sauer
5.	ABUTH velvetleaf	Abutilon theophrasti Medicus

Crop 1: GLXMA soybean Variety: See treatment list
 Planting Method: Seeded Planting Date: 6-1-05
 Rate: 75 lb/A Depth: 1.0 IN
 Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 28 FT Reps: 3
 Tillage Type: Reduced-Till Study Design: Split-block
 Previous Crop, Year: ZEAMX, 2004

Field Prep./Maintenance: N 0 LB/A, P205 50 LB/A, K20 100 LB/A

Soil Name: Weir % OM: 1.6 pH: 6.2 CEC: 7
 Texture: Silt loam Fert. Level: P1: 93 LB/A, K: 448 LB/A

APPLICATION DESCRIPTION

	A	B	C	D	E	F	G	H
Application Date:	06-01-05	06-23-05	06-24-05	07-01-05	07-08-05	07-18-05	07-22-05	
Time of Day:	13:15	8:45	15:15	14:00	10:00	10:00	11:00	
Application Method:	Spray	Spray	Spray	Spray	Spray	Spray	Spray	Spray
Application Timing:	PRE	2-4"W	0-5"W	5-10"W	10-15"W	15-20"W	20-25"W	3WA0-5"-IN
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	80 F	79 F	96 F	83 F	82 F	79 F	91 F	
% Relative Humidity:	34	80	32	39	43	84	56	
Wind Velocity, Unit:	3 MPH	1 MPH	3 MPH	3-5 MPH	0 MPH	3 MPH	0 MPH	
Soil Moisture:	BELNOR	BELNOR	BELNOR	BELNOR	NORMAL	ABONOR	NORMAL	
		I	J	K	L			
Application Date:	07-23-05							
Time of Day:	13:30							
Application Method:	Spray	Spray	Spray	Spray				
Application Timing:	3WA5-10"-IN	3WA10-15"-IN	3WA15-20"-IN	3WA20-25"-IN				
Applic. Placement:	BROFOL	BROFOL	BROFOL	BROFOL				
Air Temp., Unit:	88 F							
% Relative Humidity:	70							
Wind Velocity, Unit:	1-2 MPH							
Soil Moisture:	NORMAL							

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F	G	H
Crop 1 Code, Stage:	GLXMA NA	GLXMA V2	GLXMA V2	GLXMA V3	GLXMA V4	GLXMA R2	GLXMA R2	GLXMA NA
Height, Unit:	NA NA	5 IN	5 IN	6 IN	9-10 IN	16-18 IN	18-19 IN	NA NA
	I	J	K	L				
Crop 1 Code, Stage:	GLXMA R2	GLXMA NA	GLXMA NA	GLXMA NA				
Height, Unit:	18-19 IN	NA NA	NA NA	NA NA				

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F	G	H
Weed 1 Code:		SETFA	SETFA	SETFA	SETFA	SETFA	SETFA	
Stage (leaves):		4-6	4-8	7-9	9-10	10+	8-10	
Height (inches):		1-4	2-5	6-8	10-12	15-20	20-25	
Density:		Medium	High	High	High	High	High	
Weed 2 Code:		XANST	XANST	XANST	XANST	XANST	XANST	
Stage (leaves):		3-5	3-4	7-9	6-8	10+	8-12	
Height (inches):		1-3	2-4	5-6	6-8	15-18	20-25	
Density:		Low	Low	Low	Medium	Medium	Medium	
Weed 3 Code:				AMBEL	AMBEL	AMBEL	AMBEL	
Stage (leaves):				5-6	4-6	10+	10+	
Height (inches):				4-5	6-8	15-20	20-25	
Density:				Low	Medium	Medium	Low	
Weed 4 Code:				AMATA	AMATA	AMATA	AMATA	
Stage (leaves):				9-10	10-11	10+	10+	
Height (inches):				6-7	6-8	15-18	20-25	
Density:				Low	Low	Low	Low	
Weed 5 Code:		ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	
Stage (leaves):		2-3	2-4	4-6	6-8	8-10	10-12	
Height (inches):		1-2	1-3	5-6	8-10	15-20	20-25	
Density:		Low	Low	Low	Low	Low	Low	

The Effect of Variety, Planting Date, and Weed Height on Weed Control and
Grain Yield of Roundup Ready Soybean.

Project Code: 05-2A-W270-PD2 Location: Belleville Research Center

Investigator: Bryan Young

	I	J	K	L
Weed 1 Code:				
Stage (leaves):				
Height (inches):				
Density:				
Weed 2 Code:	XANST			
Stage (leaves):	4-6			
Height (inches):	5-10			
Density:	Low			
Weed 3 Code:				
Stage (leaves):				
Height (inches):				
Density:				
Weed 4 Code:				
Stage (leaves):				
Height (inches):				
Density:				
Weed 5 Code:	ABUTH			
Stage (leaves):	4-5			
Height (inches):	5-6			
Density:	Medium			

APPLICATION EQUIPMENT

	A		B		C		D		E		F		G		H	
Appl. Equipment:	CO2	sprayer	CO2	sprayer	CO2	sprayer	CO2	sprayer	CO2	sprayer	CO2	sprayer	CO2	sprayer	CO2	sprayer
Operating Pressure:	40	PSI	40	PSI	40	PSI	40	PSI	40	PSI	40	PSI	40	PSI	40	PSI
Nozzle Type:	Flat	fan	Flat	fan	Flat	fan	Flat	fan	Flat	fan	Flat	fan	Flat	fan	Flat	fan
Nozzle Size:	8003		8002		8002		8002		8002		8002		8002		8002	
Boom Length, Unit:	10	FT	10	FT	10	FT	10	FT	10	FT	10	FT	10	FT	10	FT
Spray Volume, Unit:	20	GPA	20	GPA	20	GPA	20	GPA	20	GPA	20	GPA	20	GPA	20	GPA
Appl. Equipment:	CO2	sprayer	CO2	sprayer	CO2	sprayer	CO2	sprayer								
Operating Pressure:	40	PSI	40	PSI	40	PSI	40	PSI								
Nozzle Type:	Flat	fan	Flat	fan	Flat	fan	Flat	fan								
Nozzle Size:	8002		8002		8002		8002									
Boom Length, Unit:	10	FT	10	FT	10	FT	10	FT								
Spray Volume, Unit:	20	GPA	20	GPA	20	GPA	20	GPA								

NOTES:

For planting date 2, applications H and J-L were not needed, not applied.
See next page for Planting Date 3 details.

The Effect of Variety, Planting Date, and Weed Height on Weed Control and Grain Yield of Roundup Ready Soybean.

Project Code: 05-2A-W270-PD3 Location: Belleville Research Center

Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
 Trial Status: Final Updated: 11-03-05

Objective:

Evaluate the effect of soybean variety, planting date, and weed height at postemergence application on weed control and grain yield in Roundup Ready soybean.

Weed Code	Common Name	Scientific Name
1.	SETFA foxtail, giant	Setaria faberi Herrm.
2.	XANST cocklebur, common	Xanthium strumarium L.
3.	AMBEL ragweed, common	Ambrosia artemisiifolia L.
4.	AMATA waterhemp, common	Amaranthus rudis Sauer
5.	ABUTH velvetleaf	Abutilon theophrasti Medicus

Crop 1: GLXMA soybean Variety: See treatment list
 Planting Method: Seeded Planting Date: 6-15-05
 Rate: 75 lb/A Depth: 1.0 IN
 Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 28 FT Reps: 3
 Tillage Type: Reduced-Till Study Design: Split-block
 Previous Crop, Year: ZEAMX, 2004

Field Prep./Maintenance: N 0 LB/A, P205 50 LB/A, K20 100 LB/A

Soil Name: Weir % OM: 1.6 pH: 6.2 CEC: 7
 Texture: Silt loam Fert. Level: P1: 93 LB/A, K: 448 LB/A

APPLICATION DESCRIPTION

	A	B	C	D	E	F	G	H
Application Date:	06-16-05	07-08-05	07-08-05	07-11-05	07-18-05	07-22-05	07-27-05	07-29-05
Time of Day:	14:30	10:00	10:00	11:15	10:00	11:00	13:30	13:30
Application Method:	Spray	Spray	Spray	Spray	Spray	Spray	Spray	Spray
Application Timing:	PRE	2-4"W	0-5"W	5-10"W	10-15"W	15-20"W	20-25"W	3WA0-5"-IN
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	79 F	82 F	82 F	76 F	79 F	91 F	72 F	80 F
% Relative Humidity:	37	43	43	96	84	56	70	40
Wind Velocity, Unit:	1-2 MPH	0 MPH	0 MPH	2-3 MPH	3 MPH	0 MPH	3-4 MPH	0-2 MPH
Soil Moisture:	NORMAL	NORMAL	NORMAL	ABONOR	ABONOR	NORMAL	NORMAL	NORMAL
	I	J	K	L				
Application Date:								
Time of Day:								
Application Method:	Spray	Spray	Spray	Spray				
Application Timing:	3WA5-10"-IN	3WA10-15"-IN	3WA15-20"-IN	3WA20-25"-IN				
Applic. Placement:	BROFOL	BROFOL	BROFOL	BROFOL				
Air Temp., Unit:								
% Relative Humidity:								
Wind Velocity, Unit:								
Soil Moisture:								

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F	G	H
Crop 1 Code, Stage:	GLXMA NA	GLXMA V2	GLXMA V2	GLXMA V2	GLXMA V3-V4	GLXMA V5	GLXMA R1	GLXMA R1
Height, Unit:	NA NA	4-5 IN	4-5 IN	4-5 IN	8-10 IN	10-11 IN	12-14 IN	12-14 IN
	I	J	K	L				
Crop 1 Code, Stage:	GLXMA NA	GLXMA NA	GLXMA NA	GLXMA NA				
Height, Unit:	NA NA	NA NA	NA NA	NA NA				

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F	G	H
Weed 1 Code:		SETFA	SETFA	SETFA	SETFA	SETFA	SETFA	
Stage (leaves):		3-4	5-6	6-8	5-10	8-10	8-10	
Height (inches):		4-6	4-6	6-8	10-15	15-20	20-25	
Density:		Medium	Medium	Medium	Medium	Medium	Medium	
Weed 2 Code:		XANST	XANST	XANST	XANST	XANST	XANST	XANST
Stage (leaves):		4-6	5-6	8-10	8-12	10-12	10-12	4-6
Height (inches):		2-4	4-6	7-9	10-15	15-20	20-25	0-5
Density:		Low	Low	Low	Low	Low	Medium	Medium
Weed 3 Code:						AMBEL	AMBEL	AMBEL
Stage (leaves):						10-15	10+	4-6
Height (inches):						15-20	20-25	0-5
Density:						Low	Low	Low
Weed 4 Code:		AMATA	AMATA	AMATA	AMATA	AMATA	AMATA	AMATA
Stage (leaves):		6-8	8-10	9-10	10+	10+	10+	4-6
Height (inches):		2-3	3-4	5-8	10-12	15-20	20-25	0-5
Density:		Low	Medium	Medium	Medium	Low	Low	Low
Weed 5 Code:		ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
Stage (leaves):		3-4	4-5	6-8	8-10	8-10	8-10	4-6
Height (inches):		2-3	3-4	5-6	10-12	15-20	20-25	0-5
Density:		Medium	Medium	Medium	Low	Low	Low	Low

The Effect of Variety, Planting Date, and Weed Height on Weed Control and
Grain Yield of Roundup Ready Soybean.

Project Code: 05-2A-W270-PD3 Location: Belleville Research Center

Investigator: Bryan Young

I J K L

Weed 1 Code:
Stage (leaves):
Height (inches):
Density:

Weed 2 Code:
Stage (leaves):
Height (inches):
Density:

Weed 3 Code:
Stage (leaves):
Height (inches):
Density:

Weed 4 Code:
Stage (leaves):
Height (inches):
Density:

Weed 5 Code:
Stage (leaves):
Height (inches):
Density:

APPLICATION EQUIPMENT

	A		B		C		D		E		F		G		H	
Appl. Equipment:	CO2 sprayer		CO2 sprayer		CO2 sprayer		CO2 sprayer		CO2 sprayer		CO2 sprayer		CO2 sprayer		CO2 sprayer	
Operating Pressure:	40 PSI		40 PSI		40 PSI		40 PSI		40 PSI		40 PSI		40 PSI		40 PSI	
Nozzle Type:	Flat fan		Flat fan		Flat fan		Flat fan		Flat fan		Flat fan		Flat fan		Flat fan	
Nozzle Size:	8003		8002		8002		8002		8002		8002		8002		8002	
Boom Length, Unit:	10	FT	10	FT	10	FT	10	FT	10	FT	10	FT	10	FT	10	FT
Spray Volume, Unit:	20	GPA	20	GPA	20	GPA	20	GPA	20	GPA	20	GPA	20	GPA	20	GPA

	I		J		K		L	
Appl. Equipment:	CO2 sprayer		CO2 sprayer		CO2 sprayer		CO2 sprayer	
Operating Pressure:	40 PSI		40 PSI		40 PSI		40 PSI	
Nozzle Type:	Flat fan		Flat fan		Flat fan		Flat fan	
Nozzle Size:	8002		8002		8002		8002	
Boom Length, Unit:	10	FT	10	FT	10	FT	10	FT
Spray Volume, Unit:	20	GPA	20	GPA	20	GPA	20	GPA

NOTES:

For planting date 3, applications I-L were not needed, not applied.

The Effect of Variety, Planting Date, and Weed Height on Weed Control and Grain Yield of Roundup Ready Soybean.
 Project Code: 05-2A-W270 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code								SETFA	SETFA							
Crop Code								GLXMA	GLXMA							
Rating Data Type								Maturity	Height							
Rating Unit								Moisture	Yield							
Rating Date								Injury	Injury							
Trt-Eval Interval								Percent	Percent							
								Control	Control							
								Percent	Percent							
								EOS	EOS							
Trt	Treatment	Form	Form	Rate	Prod	Prod	Grow	Appl								
No.	Name	Conc	Type	Unit	Rate	Unit	Stg	Code								
1	ASGROW 3905 RR								135	40	21.3	6	0	0	0	0
1	PLANTING DATE 1															
1	NONTREATED															
2	ASGROW 3905 RR								128	43	14.0	66	0	0	100	100
2	PLANTING DATE 1															
2	NO HERBICIDE															
2	HANDWEED															
3	ASGROW 3905 RR								128	42	14.2	60	0	0	0	97
3	PLANTING DATE 1															
3	AUTHORITY	75	WG	0.25	lb ai/a	5.33	oz/a	PRE	A							
3	FIRSTRATE	84	WG	0.031	lb ai/a	0.59	oz/a	PRE	A							
3	ROUNDUP W-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	2-4"W	B							
4	ASGROW 3905 RR								128	39	13.9	64	0	0	100	100
4	PLANTING DATE 1															
4	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	0-5"W	C							
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA0-5"-IN	H							
5	ASGROW 3905 RR								128	35	14.2	58	0	0	100	100
5	PLANTING DATE 1															
5	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	5-10"W	D							
5	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA5-10"-IN	I							
6	ASGROW 3905 RR								128	35	14.6	58	0	0	100	100
6	PLANTING DATE 1															
6	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	10-15"W	E							
6	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA10-15"-IN	J							
7	ASGROW 3905 RR								128	33	14.0	45	0	0	100	100
7	PLANTING DATE 1															
7	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	15-20"W	F							
7	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA15-20"-IN	K							
8	ASGROW 3905 RR								128	34	14.7	41	0	0	100	100
8	PLANTING DATE 1															
8	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	20-25"W	G							
8	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA20-25"-IN	L							
9	ASGROW 4603 RR								146	39	21.1	6	0	0	0	0
9	PLANTING DATE 1															
9	NONTREATED															
10	ASGROW 4603 RR								139	42	14.6	63	0	0	100	100
10	PLANTING DATE 1															
10	NO HERBICIDE															
10	HANDWEED															
11	ASGROW 4603 RR								139	42	14.7	57	0	0	0	97
11	PLANTING DATE 1															
11	AUTHORITY	75	WG	0.25	lb ai/a	5.33	oz/a	PRE	A							
11	FIRSTRATE	84	WG	0.031	lb ai/a	0.59	oz/a	PRE	A							
11	ROUNDUP W-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	2-4"W	B							
12	ASGROW 4603 RR								139	41	14.5	62	0	0	100	100
12	PLANTING DATE 1															
12	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	0-5"W	C							
12	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA0-5"-IN	H							
13	ASGROW 4603 RR								139	40	14.5	58	0	0	100	100
13	PLANTING DATE 1															
13	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	5-10"W	D							
13	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA5-10"-IN	I							
14	ASGROW 4603 RR								139	37	14.5	52	0	0	100	100
14	PLANTING DATE 1															
14	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	10-15"W	E							
14	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA10-15"-IN	J							
15	ASGROW 4603 RR								139	33	14.2	48	0	0	100	100
15	PLANTING DATE 1															
15	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	15-20"W	F							
15	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA15-20"-IN	K							

The Effect of Variety, Planting Date, and Weed Height on Weed Control and

Grain Yield of Roundup Ready Soybean.

Project Code: 05-2A-W270

Location: Belleville Research Center

Investigator: Bryan Young

Weed Code								GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	SETFA	SETFA		
Crop Code								Maturity	Height	Moisture	Yield	Injury	Injury	Control	Control		
Rating Data Type								DAP	Inches	Percent	bu/A	Percent	Percent	Percent	Percent		
Rating Unit																	
Rating Date																	
Trt-Eval Interval								EOS			21 DAT		EOS				
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code								
16	ASGROW 4603 RR									139	32	15.1	38	0	0	100	100
16	PLANTING DATE 1																
16	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	20-25"W	G								
16	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA20-25"-IN	L								
17	ASGROW 3905 RR									121	39	13.8	23	0	0	0	0
17	PLANTING DATE 2																
17	NONTREATED																
18	ASGROW 3905 RR									118	39	14.1	57	0	0	100	100
18	PLANTING DATE 2																
18	NO HERBICIDE																
18	HANDWEED																
19	ASGROW 3905 RR									118	38	14.4	58	0	0	78	100
19	PLANTING DATE 2																
19	AUTHORITY	75	WG	0.25	lb ai/a	5.33	oz/a	PRE	A								
19	FIRSTRATE	84	WG	0.031	lb ai/a	0.59	oz/a	PRE	A								
19	ROUNDUP W-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	2-4"W	B								
20	ASGROW 3905 RR									118	36	14.4	55	0	0	100	100
20	PLANTING DATE 2																
20	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	0-5"W	C								
20	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA0-5"-IN	H								
21	ASGROW 3905 RR									118	35	14.5	56	0	0	93	100
21	PLANTING DATE 2																
21	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	5-10"W	D								
21	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA5-10"-IN	I								
22	ASGROW 3905 RR									118	35	14.3	54	0	0	100	100
22	PLANTING DATE 2																
22	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	10-15"W	E								
22	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA10-15"-IN	J								
23	ASGROW 3905 RR									121	33	14.5	54	0	0	100	100
23	PLANTING DATE 2																
23	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	15-20"W	F								
23	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA15-20"-IN	K								
24	ASGROW 3905 RR									121	33	14.6	46	0	0	100	100
24	PLANTING DATE 2																
24	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	20-25"W	G								
24	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA20-25"-IN	L								
25	ASGROW 4603 RR									132	38	14.6	25	0	0	0	0
25	PLANTING DATE 2																
25	NONTREATED																
26	ASGROW 4603 RR									125	41	14.4	58	0	0	100	100
26	PLANTING DATE 2																
26	NO HERBICIDE																
26	HANDWEED																
27	ASGROW 4603 RR									125	41	14.2	58	0	0	70	100
27	PLANTING DATE 2																
27	AUTHORITY	75	WG	0.25	lb ai/a	5.33	oz/a	PRE	A								
27	FIRSTRATE	84	WG	0.031	lb ai/a	0.59	oz/a	PRE	A								
27	ROUNDUP W-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	2-4"W	B								
28	ASGROW 4603 RR									125	42	14.2	60	0	0	100	100
28	PLANTING DATE 2																
28	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	0-5"W	C								
28	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA0-5"-IN	H								
29	ASGROW 4603 RR									125	35	14.3	53	0	0	100	100
29	PLANTING DATE 2																
29	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	5-10"W	D								
29	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA5-10"-IN	I								
30	ASGROW 4603 RR									125	37	14.1	55	0	0	100	100
30	PLANTING DATE 2																
30	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	10-15"W	E								
30	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA10-15"-IN	J								

The Effect of Variety, Planting Date, and Weed Height on Weed Control and

Grain Yield of Roundup Ready Soybean.

Project Code: 05-2A-W270

Location: Belleville Research Center

Investigator: Bryan Young

Weed Code		Crop Code		Rating Data Type		Rating Unit		Rating Date		Trt-Eval Interval		GLXMA Maturity DAP	GLXMA Height Inches	GLXMA Moisture Percent	GLXMA Yield bu/A	GLXMA Injury Percent	GLXMA Injury Percent	SETFA Control Percent	SETFA Control Percent
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Prod Rate	Prod Unit	Grow Stg	Appl Code					EOS		21 DAT	EOS	21 DAT	EOS	
31	ASGROW 4603 RR											128	37	14.3	48	0	0	100	100
31	PLANTING DATE 2																		
31	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32 fl oz/a	15-20"W		F											
31	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a	3WA15-20"-IN		K											
32	ASGROW 4603 RR											128	37	14.0	49	0	0	100	100
32	PLANTING DATE 2																		
32	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32 fl oz/a	20-25"W		G											
32	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a	3WA20-25"-IN		L											
33	ASGROW 3905 RR											118	34	13.9	13	0	0	0	0
33	PLANTING DATE 3																		
33	NONTREATED																		
34	ASGROW 3905 RR											111	32	13.5	54	0	0	100	100
34	PLANTING DATE 3																		
34	NO HERBICIDE																		
34	HANDWEED																		
35	ASGROW 3905 RR											111	31	13.2	52	0	0	52	100
35	PLANTING DATE 3																		
35	AUTHORITY	75	WG	0.25 lb ai/a	5.33 oz/a	PRE		A											
35	FIRSTRATE	84	WG	0.031 lb ai/a	0.59 oz/a	PRE		A											
35	ROUNDUP W-MAX	4.5	SL	0.56 lb ae/a	16 fl oz/a	2-4"W		B											
36	ASGROW 3905 RR											111	32	13.3	54	0	0	92	100
36	PLANTING DATE 3																		
36	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32 fl oz/a	0-5"W		C											
36	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a	3WA0-5"-IN		H											
37	ASGROW 3905 RR											111	33	13.6	53	0	0	100	100
37	PLANTING DATE 3																		
37	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32 fl oz/a	5-10"W		D											
37	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a	3WA5-10"-IN		I											
38	ASGROW 3905 RR											111	33	13.3	53	0	0	100	100
38	PLANTING DATE 3																		
38	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32 fl oz/a	10-15"W		E											
38	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a	3WA10-15"-IN		J											
39	ASGROW 3905 RR											111	33	13.5	50	0	0	100	100
39	PLANTING DATE 3																		
39	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32 fl oz/a	15-20"W		F											
39	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a	3WA15-20"-IN		K											
40	ASGROW 3905 RR											111	33	13.5	46	0	0	100	100
40	PLANTING DATE 3																		
40	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32 fl oz/a	20-25"W		G											
40	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a	3WA20-25"-IN		L											
41	ASGROW 4603 RR											118	37	14.4	16	0	0	0	0
41	PLANTING DATE 3																		
41	NONTREATED																		
42	ASGROW 4603 RR											114	36	13.6	52	0	0	100	100
42	PLANTING DATE 3																		
42	NO HERBICIDE																		
42	HANDWEED																		
43	ASGROW 4603 RR											114	37	13.3	42	0	0	60	100
43	PLANTING DATE 3																		
43	AUTHORITY	75	WG	0.25 lb ai/a	5.33 oz/a	PRE		A											
43	FIRSTRATE	84	WG	0.031 lb ai/a	0.59 oz/a	PRE		A											
43	ROUNDUP W-MAX	4.5	SL	0.56 lb ae/a	16 fl oz/a	2-4"W		B											
44	ASGROW 4603 RR											114	36	13.3	50	0	0	80	100
44	PLANTING DATE 3																		
44	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32 fl oz/a	0-5"W		C											
44	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a	3WA0-5"-IN		H											
45	ASGROW 4603 RR											114	37	13.2	46	0	0	97	97
45	PLANTING DATE 3																		
45	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32 fl oz/a	5-10"W		D											
45	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a	3WA5-10"-IN		I											

The Effect of Variety, Planting Date, and Weed Height on Weed Control and

Grain Yield of Roundup Ready Soybean.

Project Code: 05-2A-W270

Location: Belleville Research Center

Investigator: Bryan Young

Weed Code		Crop Code		Rating Data Type		Rating Unit		Rating Date		Trt-Eval Interval		GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	SETFA	SETFA
												Maturity	Height	Moisture	Yield	Injury	Injury	Control	Control
												DAP	Inches	Percent	bu/A	Percent	Percent	Percent	Percent
												EOS		21 DAT		EOS		21 DAT	EOS
Trt	Treatment	Form	Form	Rate	Prod	Prod	Grow	Appl											
No.	Name	Conc	Type	Unit	Rate	Unit	Stg	Code											
46	ASGROW 4603 RR									114	37	13.6	52	0	0	100	100		
46	PLANTING DATE 3																		
46	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	10-15"W	E										
46	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA10-15"-IN	J										
47	ASGROW 4603 RR									118	35	13.3	48	0	0	100	100		
47	PLANTING DATE 3																		
47	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	15-20"W	F										
47	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA15-20"-IN	K										
48	ASGROW 4603 RR									118	36	13.4	48	0	0	100	100		
48	PLANTING DATE 3																		
48	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	20-25"W	G										
48	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA20-25"-IN	L										
LSD (P=.05)										0.0	3.7	1.20	8.0	0.0	0.0	12.5	2.0		
Replicate F										0.000	14.895	2.139	0.046	0.000	0.000	0.720	0.329		
Replicate Prob(F)										1.0000	0.0001	0.1234	0.9555	1.0000	1.0000	0.4894	0.7207		
Treatment F										0.000	6.092	12.567	24.809	0.000	0.000	70.627	2105.874		
Treatment Prob(F)										1.0000	0.0001	0.0001	0.0001	1.0000	1.0000	0.0001	0.0001		

The Effect of Variety, Planting Date, and Weed Height on Weed Control and Grain Yield of Roundup Ready Soybean.
 Project Code: 05-2A-W270 Location: Belleville Research Center
 Investigator: Bryan Young

										XANST	XANST	AMBEL	AMBEL	AMATA	AMATA	ABUTH	ABUTH
										Control	Control	Control	Control	Control	Control	Control	Control
										Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
										21 DAT	EOS	21 DAT	EOS	21 DAT	EOS	21 DAT	EOS
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code								
1	ASGROW 3905 RR									0	0	0	0	0	0	0	0
1	PLANTING DATE 1																
1	NONTREATED																
2	ASGROW 3905 RR									100	100	100	100	100	100	100	100
2	PLANTING DATE 1																
2	NO HERBICIDE																
2	HANDWEED																
3	ASGROW 3905 RR									90	93	97	100	100	100	93	100
3	PLANTING DATE 1																
3	AUTHORITY	75	WG	0.25	lb ai/a	5.33	oz/a	PRE	A								
3	FIRSTRATE	84	WG	0.031	lb ai/a	0.59	oz/a	PRE	A								
3	ROUNDUP W-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	2-4"W	B								
4	ASGROW 3905 RR									87	100	100	100	83	100	96	100
4	PLANTING DATE 1																
4	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	0-5"W	C								
4	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA0-5"-IN	H								
5	ASGROW 3905 RR									100	100	100	100	97	96	97	97
5	PLANTING DATE 1																
5	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	5-10"W	D								
5	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA5-10"-IN	I								
6	ASGROW 3905 RR									100	100	99	99	100	100	98	98
6	PLANTING DATE 1																
6	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	10-15"W	E								
6	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA10-15"-IN	J								
7	ASGROW 3905 RR									100	100	99	99	100	100	99	99
7	PLANTING DATE 1																
7	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	15-20"W	F								
7	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA15-20"-IN	K								
8	ASGROW 3905 RR									100	100	98	98	100	100	99	99
8	PLANTING DATE 1																
8	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	20-25"W	G								
8	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA20-25"-IN	L								
9	ASGROW 4603 RR									0	0	0	0	0	0	0	0
9	PLANTING DATE 1																
9	NONTREATED																
10	ASGROW 4603 RR									100	100	100	100	100	100	100	100
10	PLANTING DATE 1																
10	NO HERBICIDE																
10	HANDWEED																
11	ASGROW 4603 RR									90	94	90	100	97	100	97	100
11	PLANTING DATE 1																
11	AUTHORITY	75	WG	0.25	lb ai/a	5.33	oz/a	PRE	A								
11	FIRSTRATE	84	WG	0.031	lb ai/a	0.59	oz/a	PRE	A								
11	ROUNDUP W-MAX	4.5	SL	0.56	lb ae/a	16	fl oz/a	2-4"W	B								
12	ASGROW 4603 RR									93	100	97	100	72	100	93	100
12	PLANTING DATE 1																
12	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	0-5"W	C								
12	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA0-5"-IN	H								
13	ASGROW 4603 RR									99	99	100	100	98	98	96	98
13	PLANTING DATE 1																
13	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	5-10"W	D								
13	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA5-10"-IN	I								
14	ASGROW 4603 RR									100	100	100	100	100	97	93	96
14	PLANTING DATE 1																
14	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	10-15"W	E								
14	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA10-15"-IN	J								
15	ASGROW 4603 RR									100	100	100	100	100	100	99	99
15	PLANTING DATE 1																
15	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	15-20"W	F								
15	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA15-20"-IN	K								

The Effect of Variety, Planting Date, and Weed Height on Weed Control and

Grain Yield of Roundup Ready Soybean.

Project Code: 05-2A-W270

Location: Belleville Research Center

Investigator: Bryan Young

Weed Code				XANST	XANST	AMBEL	AMBEL	AMATA	AMATA	ABUTH	ABUTH
Crop Code				Control	Control	Control	Control	Control	Control	Control	Control
Rating Data Type				Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit				21 DAT	EOS	21 DAT	EOS	21 DAT	EOS	21 DAT	EOS
Rating Date											
Trt-Eval Interval											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Prod Rate	Prod Unit	Grow Stg	Appl Code			
16	ASGROW 4603 RR								100	100	98
16	PLANTING DATE 1										98
16	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32 fl oz/a	20-25"W		G			
16	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a	3WA20-25"-IN		L			
17	ASGROW 3905 RR								0	0	0
17	PLANTING DATE 2										0
17	NONTREATED										
18	ASGROW 3905 RR								100	100	100
18	PLANTING DATE 2										100
18	NO HERBICIDE										
18	HANDWEED										
19	ASGROW 3905 RR								94	100	99
19	PLANTING DATE 2										100
19	AUTHORITY	75	WG	0.25 lb ai/a	5.33 oz/a	PRE		A			
19	FIRSTRATE	84	WG	0.031 lb ai/a	0.59 oz/a	PRE		A			
19	ROUNDUP W-MAX	4.5	SL	0.56 lb ae/a	16 fl oz/a	2-4"W		B			
20	ASGROW 3905 RR								100	100	100
20	PLANTING DATE 2										96
20	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32 fl oz/a	0-5"W		C			
20	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a	3WA0-5"-IN		H			
21	ASGROW 3905 RR								97	100	100
21	PLANTING DATE 2										100
21	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32 fl oz/a	5-10"W		D			
21	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a	3WA5-10"-IN		I			
22	ASGROW 3905 RR								100	100	100
22	PLANTING DATE 2										96
22	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32 fl oz/a	10-15"W		E			
22	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a	3WA10-15"-IN		J			
23	ASGROW 3905 RR								100	100	100
23	PLANTING DATE 2										99
23	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32 fl oz/a	15-20"W		F			
23	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a	3WA15-20"-IN		K			
24	ASGROW 3905 RR								100	100	100
24	PLANTING DATE 2										97
24	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32 fl oz/a	20-25"W		G			
24	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a	3WA20-25"-IN		L			
25	ASGROW 4603 RR								0	0	0
25	PLANTING DATE 2										0
25	NONTREATED										
26	ASGROW 4603 RR								100	100	100
26	PLANTING DATE 2										100
26	NO HERBICIDE										
26	HANDWEED										
27	ASGROW 4603 RR								99	100	100
27	PLANTING DATE 2										100
27	AUTHORITY	75	WG	0.25 lb ai/a	5.33 oz/a	PRE		A			
27	FIRSTRATE	84	WG	0.031 lb ai/a	0.59 oz/a	PRE		A			
27	ROUNDUP W-MAX	4.5	SL	0.56 lb ae/a	16 fl oz/a	2-4"W		B			
28	ASGROW 4603 RR								100	100	100
28	PLANTING DATE 2										98
28	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32 fl oz/a	0-5"W		C			
28	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a	3WA0-5"-IN		H			
29	ASGROW 4603 RR								100	100	100
29	PLANTING DATE 2										72
29	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32 fl oz/a	5-10"W		D			
29	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a	3WA5-10"-IN		I			
30	ASGROW 4603 RR								100	100	100
30	PLANTING DATE 2										90
30	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32 fl oz/a	10-15"W		E			
30	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a	3WA10-15"-IN		J			

The Effect of Variety, Planting Date, and Weed Height on Weed Control and

Grain Yield of Roundup Ready Soybean.

Project Code: 05-2A-W270

Location: Belleville Research Center

Investigator: Bryan Young

Weed Code				XANST	XANST	AMBEL	AMBEL	AMATA	AMATA	ABUTH	ABUTH
Crop Code				Control	Control	Control	Control	Control	Control	Control	Control
Rating Data Type				Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit				21 DAT	EOS	21 DAT	EOS	21 DAT	EOS	21 DAT	EOS
Rating Date											
Trt-Eval Interval											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Prod Rate	Prod Unit	Grow Stg	Appl Code			
31	ASGROW 4603 RR								100	100	100
31	PLANTING DATE 2										
31	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32 fl oz/a	15-20"W		F			
31	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a	3WA15-20"-IN		K			
32	ASGROW 4603 RR								100	100	100
32	PLANTING DATE 2										
32	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32 fl oz/a	20-25"W		G			
32	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a	3WA20-25"-IN		L			
33	ASGROW 3905 RR								0	0	0
33	PLANTING DATE 3										
33	NONTREATED										
34	ASGROW 3905 RR								100	100	100
34	PLANTING DATE 3										
34	NO HERBICIDE										
34	HANDWEED										
35	ASGROW 3905 RR								99	100	100
35	PLANTING DATE 3										
35	AUTHORITY	75	WG	0.25 lb ai/a	5.33 oz/a	PRE		A			
35	FIRSTRATE	84	WG	0.031 lb ai/a	0.59 oz/a	PRE		A			
35	ROUNDUP W-MAX	4.5	SL	0.56 lb ae/a	16 fl oz/a	2-4"W		B			
36	ASGROW 3905 RR								97	100	97
36	PLANTING DATE 3										
36	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32 fl oz/a	0-5"W		C			
36	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a	3WA0-5"-IN		H			
37	ASGROW 3905 RR								100	100	100
37	PLANTING DATE 3										
37	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32 fl oz/a	5-10"W		D			
37	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a	3WA5-10"-IN		I			
38	ASGROW 3905 RR								100	100	100
38	PLANTING DATE 3										
38	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32 fl oz/a	10-15"W		E			
38	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a	3WA10-15"-IN		J			
39	ASGROW 3905 RR								100	100	100
39	PLANTING DATE 3										
39	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32 fl oz/a	15-20"W		F			
39	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a	3WA15-20"-IN		K			
40	ASGROW 3905 RR								100	100	100
40	PLANTING DATE 3										
40	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32 fl oz/a	20-25"W		G			
40	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a	3WA20-25"-IN		L			
41	ASGROW 4603 RR								0	0	0
41	PLANTING DATE 3										
41	NONTREATED										
42	ASGROW 4603 RR								100	100	100
42	PLANTING DATE 3										
42	NO HERBICIDE										
42	HANDWEED										
43	ASGROW 4603 RR								96	100	100
43	PLANTING DATE 3										
43	AUTHORITY	75	WG	0.25 lb ai/a	5.33 oz/a	PRE		A			
43	FIRSTRATE	84	WG	0.031 lb ai/a	0.59 oz/a	PRE		A			
43	ROUNDUP W-MAX	4.5	SL	0.56 lb ae/a	16 fl oz/a	2-4"W		B			
44	ASGROW 4603 RR								96	100	100
44	PLANTING DATE 3										
44	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32 fl oz/a	0-5"W		C			
44	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a	3WA0-5"-IN		H			
45	ASGROW 4603 RR								99	99	99
45	PLANTING DATE 3										
45	ROUNDUP W-MAX	4.5	SL	1.12 lb ae/a	32 fl oz/a	5-10"W		D			
45	ROUNDUP W-MAX	4.5	SL	0.75 lb ae/a	21.3 fl oz/a	3WA5-10"-IN		I			

The Effect of Variety, Planting Date, and Weed Height on Weed Control and Grain Yield of Roundup Ready Soybean.
 Project Code: 05-2A-W270 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code		XANST	XANST	AMBEL	AMBEL	AMATA	AMATA	ABUTH	ABUTH			
Crop Code												
Rating Data Type		Control	Control	Control	Control	Control	Control	Control	Control			
Rating Unit		Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent			
Rating Date												
Trt-Eval Interval		21 DAT	EOS	21 DAT	EOS	21 DAT	EOS	21 DAT	EOS			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code			
46	ASGROW 4603 RR											
46	PLANTING DATE 3											
46	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	10-15"W	E			
46	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA10-15"-IN	J			
47	ASGROW 4603 RR											
47	PLANTING DATE 3											
47	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	15-20"W	F			
47	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA15-20"-IN	K			
48	ASGROW 4603 RR											
48	PLANTING DATE 3											
48	ROUNDUP W-MAX	4.5	SL	1.12	lb ae/a	32	fl oz/a	20-25"W	G			
48	ROUNDUP W-MAX	4.5	SL	0.75	lb ae/a	21.3	fl oz/a	3WA20-25"-IN	L			
LSD (P=.05)		4.9		2.0		3.3		0.5	6.3	2.7	7.7	4.4
Replicate F		8.678		2.568		0.960		2.401	0.775	0.974	13.315	6.026
Replicate Prob(F)		0.0003		0.0820		0.3865		0.0961	0.4635	0.3814	0.0001	0.0034
Treatment F		357.150		2136.962		774.451		41263.156	218.564	1222.734	136.378	449.059
Treatment Prob(F)		0.0001		0.0001		0.0001		0.0001	0.0001	0.0001	0.0001	0.0001

Trial Comments

1. Protocol: SIU/RFK (same as 04-2C-W270).
2. Ratings: CI and WC 21 DAT. Rate PRE prior to POST.
3. Yield.
4. Applications H-L were not applied, not needed.
5. DAT = Days after PRE application or various postemergence applications. DAP = Days after planting.
Ratings at 21 days after PRE application are prior to the 2-4"W application.
6. Rating dates:
 Planting Date 1;
 Ratings at 21 days after the PRE application were on 6-8-05.
 Ratings at 21 days after the 0-5"W application were on 7-1-05.
 Ratings at 21 days after the 5-10"W application were on 7-8-05.
 Ratings at 21 days after the 10-15"W application were on 7-13-05.
 Ratings at 21 days after the 15-20"W application were on 7-29-05.
 Ratings at 21 days after the 20-25"W application were on 8-8-05.
 Planting Date 2;
 Ratings at 21 days after the PRE application were on 6-22-05.
 Ratings at 21 days after the 0-5"W application were on 7-15-05.
 Ratings at 21 days after the 5-10"W application were on 7-22-05.
 Ratings at 21 days after the 10-15"W application were on 7-29-05.
 Ratings at 21 days after the 15-20"W application were on 8-8-05.
 Ratings at 21 days after the 20-25"W application were on 8-14-05.
 Planting Date 3;
 Ratings at 21 days after the PRE application were on 7-8-05.
 Ratings at 21 days after the 0-5"W application were on 7-29-05.
 Ratings at 21 days after the 5-10"W application were on 8-1-05.
 Ratings at 21 days after the 10-15"W application were on 8-8-05.
 Ratings at 21 days after the 15-20"W application were on 8-12-05.
 Ratings at 21 days after the 20-25"W application were on 8-17-05.
7. Weed control rated at end of season (EOS), as well as crop height, was on the same day as harvest.
8. Harvested (2) 30 inch rows x 25 ft on:
 10-10-05 for planting date 1 and ASGROW 3905 RR,
 10-10-05 for planting date 1 and ASGROW 4603 RR,
 10-27-05 for planting date 2 and ASGROW 3905 RR,
 10-27-05 for planting date 2 and ASGROW 4603 RR,
 10-27-05 for planting date 3 and ASGROW 3905 RR, and
 10-27-05 for planting date 3 and ASGROW 4603 RR.