

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

Project Code: 04-2C-W270 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: 10-28-04

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.

Plot Width, Unit: 10 FT Plot Length, Unit: 28 FT Reps: 3
Tillage Type: Reduced-Till Study Design: Split-split-plot
Previous Crop, Year: ZEAMX, 2003

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

Soil Name: Weir % OM: 1.6 pH: 6.4 CEC: 8
Texture: Silt loam Fert. Level: P1: 92 LB/A, K: 365 LB/A

APPLICATION EQUIPMENT														
	A		B		C		D		E		F		G	
Appl. Equipment:	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	
Nozzle Type:	Flat fan		Flat fan		Flat fan		Flat fan		Flat fan		Flat fan		Flat fan	
Nozzle Size:	8003		8002		8002		8002		8002		8002		8002	
Boom Length, Unit:	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	

NOTES:

Harvested (2) 30 inch rows x 25 ft, see comments for harvest dates.
See next page for Planting Date 1 details.

PLANTING DATE 1

Project Code: 04-2C-W270-PD1 Location: Belleville Research Center
Investigator: Bryan Young

Weed Code	Common Name	Scientific Name
1. PANDI	panicum, fall	Panicum dichotomiflorum Michx.
2. CYPES	nutsedge, yellow	Cyperus esculentus L.
3. AMBEL	ragweed, common	Ambrosia artemisiifolia L.
4. AMATA	waterhemp, common	Amaranthus rudis Sauer
5. ABUTH	velvetleaf	Abutilon theophrasti Medicus
6. SETFA	foxtail, giant	Setaria faberi Herrm.
7. IPOHE	morningglory, annual	Ipomoea hederacea (L.) jacq.

Crop 1: GLXMA soybean Variety: See treatment list
Planting Method: Seeded Planting Date: 5-21-04
Rate: 75 lb/A Depth: 1.0 IN
Row Spacing: 30 IN

APPLICATION DESCRIPTION	A	B	C	D	E	F	G
Application Date:	5-24-04	7-16-04	6-24-04	7-1-04	7-6-04	7-12-04	7-19-04
Time of Day:	11:00	14:00	12:00	10:00	16:30	12:00	10:00
Application Method:	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
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	80 F	82 F	84 F	76 F	82 F	82 F	70 F
% Relative Humidity:	50	70	48	93	98	62	76
Wind Velocity, Unit:	0 MPH	0 MPH	0 MPH	3 MPH	5 MPH	0 MPH	0 MPH
Soil Moisture:	NORMAL	NORMAL	NORMAL	BELNOR	ABONOR	NORMAL	NORMAL

CROP STAGE AT EACH APPLICATION

Crop 1 Code, Stage:	A	B	C	D	E	F	G
Height, Unit:	GLXMA NA NA NA	GLXMA R1 16-20 IN	GLXMA V4 7-8 IN	GLXMA R1 13-14 IN	GLXMA R1 15-16 IN	GLXMA R1-R2 16-20 IN	GLXMA R2 14-17 IN

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F	G
Weed 1 Code:	PANDI	PANDI	PANDI	PANDI	PANDI	PANDI	PANDI
Stage (leaves):		5-6		15-20	20-26	5-19	7-28
Height (inches):		3-5		6-8	12-14	6-14	8-18
Density:		Low		Low	Medium	Medium	Medium
Weed 2 Code:	CYPES	CYPES	CYPES	CYPES	CYPES	CYPES	CYPES
Stage (leaves):				24-26		6-8	8-10
Height (inches):				7-8		10-14	11-13
Density:				Low		Low	Low
Weed 3 Code:	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL
Stage (leaves):		6-10	6-14	10-18	20-24	9-22	12-28
Height (inches):		1.5-3	1.5-6	7-12	14-18	10-20	12-24
Density:		Medium	Medium	Medium	High	High	Medium
Weed 4 Code:	AMATA	AMATA	AMATA	AMATA	AMATA	AMATA	AMATA
Stage (leaves):		6-9	5-9	6-12	9-21	18-29	9-12
Height (inches):		1-3.5	1-3	3-8	6-18	16-21	5-12
Density:		Medium	Medium	Medium	Medium	Medium	Low
Weed 5 Code:	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
Stage (leaves):		4-6	4-6	7-8			6-9
Height (inches):		1-2	1-2	6-7			8-14
Density:		Low	Low	Low			Medium
Weed 6 Code:	SETFA	SETFA	SETFA	SETFA	SETFA	SETFA	SETFA
Stage (leaves):		4-7	4-7		15-18	9-12	7-12
Height (inches):		2-4	2-4		12-13	14-16	10-14
Density:		Medium	Medium		Low	Medium	Medium
Weed 7 Code:	IPOHE	IPOHE	IPOHE	IPOHE	IPOHE	IPOHE	IPOHE
Stage (leaves):				4-26	10-25	20-25	8-10
Height (inches):				4-10	4-10	10-12	14-16
Density:				Medium	Low	Low	Low

NOTES:

See next page for Planting Date 2 details.

PLANTING DATE 2

Project Code: 04-2C-W270-PD2 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	Common Name	Scientific Name
1. PANDI	panicum, fall	Panicum dichotomiflorum Michx.
2. CYPES	nutsedge, yellow	Cyperus esculentus L.
3. AMBEL	ragweed, common	Ambrosia artemisiifolia L.
4. AMATA	waterhemp, common	Amaranthus rudis Sauer
5. ABUTH	velvetleaf	Abutilon theophrasti Medicus
6. SETFA	foxtail, giant	Setaria faberi Herzm.
7. IPOHE	morningglory, annual	Ipomoea hederacea (L.) Jacq.

Crop 1: GLXMA soybean Variety: See treatment list
 Planting Method: Seeded Planting Date: 6-11-04
 Rate: 75 lb/A Depth: 1.0 IN
 Row Spacing: 30 IN

APPLICATION DESCRIPTION	A	B	C	D	E	F	G
Application Date:	6-12-04	7-16-04	7-8-04	7-14-04	7-19-04	7-26-04	8-2-04
Time of Day:	8:00	14:00	11:00	10:00	9:30	9:00	9:00
Application Method:	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
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	76 F	82 F	80 F	79 F	72 F	70 F	75 F
% Relative Humidity:	98	70	70	59	78	86	98
Wind Velocity, Unit:	0 MPH	3 MPH	0 MPH	4 MPH	0 MPH	3 MPH	0 MPH
Soil Moisture:	ABONOR	BELNOR	ABONOR	NORMAL	NORMAL	ABONOR	ABONOR

CROP STAGE AT EACH APPLICATION	A	B	C	D	E	F	G
Crop 1 Code, Stage:	GLXMA NA	GLXMA V4-V5	GLXMA V2	GLXMA V4-V5	GLXMA R2	GLXMA R2	GLXMA R2-R3
Height, Unit:	NA NA	12-14 IN	4-6 IN	12-14 IN	14-16 IN	14-16 IN	20-24 IN

WEED STAGE AT EACH APPLICATION	A	B	C	D	E	F	G
Weed 1 Code:	PANDI	PANDI	PANDI	PANDI	PANDI	PANDI	PANDI
Stage(leaves):						5-8	5-8
Height(inches):						15-18	15-22
Density:						Medium	Medium
Weed 2 Code:	CYPES	CYPES	CYPES	CYPES	CYPES	CYPES	CYPES
Weed 3 Code:	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL
Stage(leaves):			5-6	8-12	6-12	5-8	7-10
Height(inches):			0-5	14-18	8-20	15-20	20-25
Density:			Low	Medium	Medium	Medium	High
Weed 4 Code:	AMATA	AMATA	AMATA	AMATA	AMATA	AMATA	AMATA
Stage(leaves):			6-10	7-15	10-22	7-10	7-10
Height(inches):			0-6	6-12	14-18	15-20	20-25
Density:			Medium	Medium	Medium	Medium	High
Weed 5 Code:	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
Stage(leaves):			4-5	5-7	4-7	5-8	8-10
Height(inches):			0-5	8-12	8-14	15-20	15-20
Density:			Low	Medium	Low	Low	Low
Weed 6 Code:	SETFA	SETFA	SETFA	SETFA	SETFA	SETFA	SETFA
Stage(leaves):			5-6	5-9	7-14	5-8	5-8
Height(inches):			0-5	10-12	12-20	15-18	15-22
Density:			Medium	Medium	Medium	Low	Medium
Weed 7 Code:	IPOHE	IPOHE	IPOHE	IPOHE	IPOHE	IPOHE	IPOHE
Stage(leaves):			5-8	4-15	3-15	7-10	7-10
Height(inches):			2-4	6-18	2-14	2-16	15-20
Density:			Low	Medium	Low	Low	Low

NOTES:
 See next page for Planting Date 3 details.

Project Code: 04-2C-W270-PD3 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	Common Name	Scientific Name
1. PANDI	panicum, fall	Panicum dichotomiflorum Michx.
2. CYPES	nutsedge, yellow	Cyperus esculentus L.
3. AMBEL	ragweed, common	Ambrosia artemisiifolia L.
4. AMATA	waterhemp, common	Amaranthus rudis Sauer
5. ABUTH	velvetleaf	Abutilon theophrasti Medicus
6. SETFA	foxtail, giant	Setaria faberi Herrm.
7. IPOHE	morningglory, ivyleaf	Ipomoea hederacea (L.) Jacq.
8. XANST	cocklebur, common	Xanthium strumarium L.
9. POLPY	smartweed, Pennsylvania	Polygonum pensylvanicum L.

Crop 1: GLXMA soybean Variety: See treatment list
 Planting Method: Seeded Planting Date: 6-23-04
 Rate: 75 lb/A Depth: 1.0 IN
 Row Spacing: 30 IN

APPLICATION DESCRIPTION	A	B	C	D	E	F	G
Application Date:	6-23-04	8-2-04	7-19-04	7-29-04	8-6-04	8-10-04	8-14-04
Time of Day:	16:00	9:00	9:30	8:00	9:00	9:00	9:00
Application Method:	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
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	80 F	75 F	70 F	68 F	51 F	66 F	55 F
% Relative Humidity:	38	98	90	72	60	80	85
Wind Velocity, Unit:	0 MPH	0 MPH	0 MPH	0 MPH	3 MPH	0 MPH	0 MPH
Soil Moisture:	ABONOR	ABONOR	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL

CROP STAGE AT EACH APPLICATION	A	B	C	D	E	F	G
Crop 1 Code, Stage:	GLXMA NA	GLXMA R1	GLXMA V3	GLXMA V4-V5	GLXMA R1-R2	GLXMA R2	GLXMA R3
Height, Unit:	NA NA	14-16 IN	8-10 IN	10-12 IN	14-16 IN	14-16 IN	16-20 IN

WEED STAGE AT EACH APPLICATION	A	B	C	D	E	F	G
Weed 1 Code:	PANDI	PANDI	PANDI	PANDI	PANDI	PANDI	PANDI
Stage (leaves):		5-6	5-8	5-8	7-10	7-10	7-10
Height (inches):		1-4	6-12	6-12	12-20	10-20	15-20
Density:		Low	Medium	Medium	Medium	Medium	Medium
Weed 2 Code:	CYPES	CYPES	CYPES	CYPES	CYPES	CYPES	CYPES
Stage (leaves):		5-6	5-8	5-8	8-10	8-10	8-10
Height (inches):		1-4	4-9	6-12	10-15	15-20	20-25
Density:		Low	Medium	Medium	Medium	Medium	Medium
Weed 3 Code:	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL	AMBEL
Stage (leaves):			6-8	5-8	8-10	8-10	8-12
Height (inches):			4-6	6-10	10-15	15-20	18-25
Density:			Medium	Medium	High	High	High
Weed 4 Code:	AMATA	AMATA	AMATA	AMATA	AMATA	AMATA	AMATA
Stage (leaves):			4-7	7-10	7-10	7-10	7-10
Height (inches):			2-3	4-8	10-12	10-16	14-18
Density:			High	High	High	Medium	Medium
Weed 5 Code:	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
Stage (leaves):			3-4	5-6	5-8	5-8	8-10
Height (inches):			3-4	5-6	12-15	15-20	18-25
Density:			Medium	Low	Low	Low	Low
Weed 6 Code:	SETFA	SETFA	SETFA	SETFA	SETFA	SETFA	SETFA
Weed 7 Code:	IPOHE	IPOHE	IPOHE	IPOHE	IPOHE	IPOHE	IPOHE
Stage (leaves):			7-9	7-10	7-10		
Height (inches):			5-7	2-5	8-12		
Density:			Low	Low	Low		
Weed 8 Code:	XANST	XANST	XANST	XANST	XANST	XANST	XANST
Stage (leaves):		5-6	4-6	5-8	8-10	8-10	8-10
Height (inches):		2-4	4-8	6-12	10-15	15-20	18-25
Density:		Low	Medium	Medium	Medium	Medium	Medium
Weed 9 Code:	POLPY	POLPY	POLPY	POLPY	POLPY	POLPY	POLPY
Stage (leaves):			5-25	10+	10+	10+	10+
Height (inches):			4-10	4-10	12-15	15-20	20-25
Density:			Low	Low	Low	Low	Low

NOTES:

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Project Code: 04-2C-W270 Location: Belleville Research Center

Investigator: Bryan Young

Weed Code									PANDI	PANDI	CYPES	CYPES	AMBEL	AMBEL	AMATA	AMATA
Crop Code									GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type									Injury	Injury	Height	Maturity	Moisture	Yield	Control	Control
Rating Unit									Percent	Percent	Inches	DAP	Percent	bu/A	Percent	Percent
Rating Date																
Trt-Eval Interval									0 DAT	21 DAT						

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	0 DAT	21 DAT	0 DAT	21 DAT	0 DAT	21 DAT	0 DAT	21 DAT
1	ASGROW 3903 RR																
1	PLANTING DATE 1																
1	NONTREATED																
2	ASGROW 3903 RR																
2	PLANTING DATE 1																
2	NO HERBICIDE																
2	HANDWEED																
3	ASGROW 3903 RR																
3	PLANTING DATE 1																
3	AUTHORITY	75	WG	0.25	LB A/A	5.33	OZ/A	PRE	A								
3	FIRSTRATE	84	WG	0.031	LB A/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	0	0	37	130	9.6	57	90	100
4	ASGROW 3903 RR																
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	0	0	37	130	9.6	57	90	100
5	ASGROW 3903 RR																
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	0	0	37	130	9.6	57	90	100
6	ASGROW 3903 RR																
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	0	0	37	130	9.6	57	90	100
7	ASGROW 3903 RR																
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	0	0	37	130	9.6	57	90	100
8	ASGROW 3903 RR																
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	0	0	37	130	9.6	57	90	100
9	ASGROW 4603 RR																
9	PLANTING DATE 1																
9	NONTREATED																
10	ASGROW 4603 RR																
10	PLANTING DATE 1																
10	NO HERBICIDE																
10	HANDWEED																

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Weed Code										PANDI	PANDI	CYPES	CYPES	AMBEL	AMBEL	AMATA	AMATA
Crop Code										GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type										Injury	Injury	Height	Maturity	Moisture	Yield	Control	Control
Rating Unit										Percent	Percent	Inches	DAP	Percent	bu/A	Percent	Percent
Rating Date																	
Trt-Eval Interval										0 DAT	21 DAT						

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	0 DAT	21 DAT	0 DAT	21 DAT	0 DAT	21 DAT	0 DAT	21 DAT
11	ASGROW 4603 RR									0	0						
11	PLANTING DATE 1																
11	AUTHORITY	75	WG	0.25	LB A/A	5.33	OZ/A	PRE	A								
11	FIRSTRATE	84	WG	0.031	LB A/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										0		32		136		12.2
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										0		34		136		12.1
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										0		35		136		12.6
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										0		33		136		12.2
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								
16	ASGROW 4603 RR										0		30		136		12.1
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 3903 RR										0		34		115		12.9
17	PLANTING DATE 2																
17	NONTREATED																
18	ASGROW 3903 RR										0		35		115		12.1
18	PLANTING DATE 2																
18	NO HERBICIDE																
18	HANDWEED																
19	ASGROW 3903 RR										0		35		115		12.2
19	PLANTING DATE 2																
19	AUTHORITY	75	WG	0.25	LB A/A	5.33	OZ/A	PRE	A								
19	FIRSTRATE	84	WG	0.031	LB A/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 3903 RR										0		34		115		12.0
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								

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Project Code: 04-2C-W270 Location: Belleville Research Center

Investigator: Bryan Young

Weed Code										PANDI	PANDI	CYPES	CYPES	AMBEL	AMBEL	AMATA	AMATA
Crop Code										GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type										Injury	Injury	Height	Maturity	Moisture	Yield	Control	Control
Rating Unit										Percent	Percent	Inches	DAP	Percent	bu/A	Percent	Percent
Rating Date																	
Trt-Eval Interval										0 DAT	21 DAT						

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	0 DAT	21 DAT	0 DAT	21 DAT	0 DAT	21 DAT	0 DAT	21 DAT			
21	ASGROW 3903 RR									0	32	115	12.2	56		100	100	100	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 3903 RR									0	34	115	12.2	58		100	100	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 3903 RR									0	34	115	12.1	57		100	100	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 3903 RR									0	34	115	12.1	53		100	100	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									0	36	122	15.7	29		0	0	0	0	
25	PLANTING DATE 2																			
25	NONTREATED																			
26	ASGROW 4603 RR									0	36	122	13.4	58		100	100	100	100	
26	PLANTING DATE 2																			
26	NO HERBICIDE																			
26	HANDWEED																			
27	ASGROW 4603 RR									0	0	36	122	13.2	57	88	100	100	100	100
27	PLANTING DATE 2																			
27	AUTHORITY	75	WG	0.25	LB A/A	5.33	OZ/A	PRE	A											
27	FIRSTRATE	84	WG	0.031	LB A/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									0	35	122	13.3	58		100	100	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									0	36	122	13.4	56		100	100	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									0	35	122	13.2	59		100	100	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											

Southern Illinois University

The Effect of Variety, Planting Date, and Weed Height on Weed Control and Grain Yield of Roundup Ready Soybean.
 Project Code: 04-2C-W270 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code										PANDI	PANDI	CYPES	CYPES	AMBEL	AMBEL	AMATA	AMATA
Crop Code										GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type										Injury	Injury	Height	Maturity	Moisture	Yield	Control	Control
Rating Unit										Percent	Percent	Inches	DAP	Percent	bu/A	Percent	Percent
Rating Date																	
Trt-Eval Interval										0 DAT	21 DAT						

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	0 DAT	21 DAT	0 DAT	21 DAT	0 DAT	21 DAT	0 DAT	21 DAT					
31	ASGROW 4603 RR									0	37	122	13.2	56		100	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									0	35	122	13.6	52		100	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 3903 RR									0	31	107	12.9	30		0	0	0	0			
33	PLANTING DATE 3																					
33	NONTREATED																					
34	ASGROW 3903 RR									0	31	107	12.3	55		100	100	100	100			
34	PLANTING DATE 3																					
34	NO HERBICIDE																					
34	HANDWEED																					
35	ASGROW 3903 RR									0	0	32	107	12.5	57	97	100	95	100	100	100	100
35	PLANTING DATE 3																					
35	AUTHORITY	75	WG	0.25	LB A/A	5.33	OZ/A	PRE	A													
35	FIRSTRATE	84	WG	0.031	LB A/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 3903 RR									0	31	107	12.4	53		100	100	100	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 3903 RR									0	30	107	12.2	50		100	98	100	98			
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 3903 RR									0	30	107	12.2	52		100	96	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 3903 RR									0	31	107	12.5	51		100	95	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 3903 RR									0	30	107	12.4	48		100	97	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													

Southern Illinois University

The Effect of Variety, Planting Date, and Weed Height on Weed Control and Grain Yield of Roundup Ready Soybean.
 Project Code: 04-2C-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	PANDI	PANDI	CYPES	CYPES	AMBEL	AMBEL	AMATA	AMATA
												Injury	Injury	Height	Maturity	Moisture	Yield	Control	Control	Control	Control	Control	Control	Control	Control
												Percent	Percent	Inches	DAP	Percent	bu/A	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
												0 DAT	21 DAT					0 DAT	21 DAT	0 DAT	21 DAT	0 DAT	21 DAT	0 DAT	21 DAT
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code																
41	ASGROW 4603 RR											0	36	119	14.7	31		0		0		0		0	
41	PLANTING DATE 3																								
41	NONTREATED																								
42	ASGROW 4603 RR											0	35	119	13.8	54		100		100		100		100	
42	PLANTING DATE 3																								
42	NO HERBICIDE																								
42	HANDWEED																								
43	ASGROW 4603 RR											0	0	34	119	13.7	52	97	100	97	100	100	100	100	
43	PLANTING DATE 3																								
43	AUTHORITY	75	WG	0.25	LB A/A	5.33	OZ/A	PRE	A																
43	FIRSTRATE	84	WG	0.031	LB A/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											0	35	119	13.8	55		100		100		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											0	33	119	14.0	52		100		94		100		96	
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																
46	ASGROW 4603 RR											0	33	119	13.6	52		99		99		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											0	34	119	13.7	49		99		98		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											0	33	119	14.0	47		99		98		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	0.0	1.9	0.0	0.50	6.0	6.6	0.5	7.0	1.4	0.0	0.0	0.0	0.7	
Replicate F											0.000	0.000	11.544	0.000	6.247	4.619	3.936	3.133	2.358	1.181	0.000	0.000	0.000	1.110	
Replicate Prob(F)											1.0000	1.0000	0.0001	1.0000	0.0028	0.0122	0.0548	0.0482	0.1448	0.3114	1.0000	1.0000	1.0000	0.3339	
Treatment F											0.000	0.000	9.160	0.000	62.797	22.357	4.511	41961.000	1.000	4239.694	0.000	0.000	0.000	17228.105	
Treatment Prob(F)											1.0000	1.0000	0.0001	1.0000	0.0001	0.0001	0.0206	0.0001	0.4651	0.0001	1.0000	1.0000	1.0000	0.0001	

The Effect of Variety, Planting Date, and Weed Height on Weed Control and Grain Yield of Roundup Ready Soybean.
 Project Code: 04-2C-W270 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	ABUTH	ABUTH	SETFA	SETFA	IPOHE	IPOHE	XANST	POLPY
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	0 DAT	21 DAT	0 DAT	21 DAT	0 DAT	21 DAT	21 DAT	21 DAT

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ABUTH	ABUTH	SETFA	SETFA	IPOHE	IPOHE	XANST	POLPY
1	ASGROW 3903 RR									0		0			0		
1	PLANTING DATE 1																
1	NONTREATED																
2	ASGROW 3903 RR									100		100			100		
2	PLANTING DATE 1																
2	NO HERBICIDE																
2	HANDWEED																
3	ASGROW 3903 RR									100	100	100	100	100	100		
3	PLANTING DATE 1																
3	AUTHORITY	75	WG	0.25	LB A/A	5.33	OZ/A	PRE	A								
3	FIRSTRATE	84	WG	0.031	LB A/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 3903 RR									100		100			98		
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 3903 RR									100		100			98		
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 3903 RR									100		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 3903 RR									100		100			97		
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 3903 RR									100		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									0		0			0		
9	PLANTING DATE 1																
9	NONTREATED																
10	ASGROW 4603 RR									100		100			100		
10	PLANTING DATE 1																
10	NO HERBICIDE																
10	HANDWEED																

The Effect of Variety, Planting Date, and Weed Height on Weed Control and Grain Yield of Roundup Ready Soybean.
 Project Code: 04-2C-W270 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	ABUTH	ABUTH	SETFA	SETFA	IPOHE	IPOHE	XANST	POLPY
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	0 DAT	21 DAT	0 DAT	21 DAT	0 DAT	21 DAT	21 DAT	21 DAT

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ABUTH 0 DAT	ABUTH 21 DAT	SETFA 0 DAT	SETFA 21 DAT	IPOHE 0 DAT	IPOHE 21 DAT	XANST 21 DAT	POLPY 21 DAT
11	ASGROW 4603 RR									100	100	100	100	100	100		
11	PLANTING DATE 1																
11	AUTHORITY	75	WG	0.25	LB A/A	5.33	OZ/A	PRE	A								
11	FIRSTRATE	84	WG	0.031	LB A/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										99		100		99		
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										100		100		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		
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										97		100		93		
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								
16	ASGROW 4603 RR										97		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 3903 RR										0		0		0		
17	PLANTING DATE 2																
17	NONTREATED																
18	ASGROW 3903 RR										100		100		100		
18	PLANTING DATE 2																
18	NO HERBICIDE																
18	HANDWEED																
19	ASGROW 3903 RR									100	100	100	100	100	100		
19	PLANTING DATE 2																
19	AUTHORITY	75	WG	0.25	LB A/A	5.33	OZ/A	PRE	A								
19	FIRSTRATE	84	WG	0.031	LB A/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 3903 RR										100		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								

The Effect of Variety, Planting Date, and Weed Height on Weed Control and Grain Yield of Roundup Ready Soybean.
 Project Code: 04-2C-W270 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	ABUTH	ABUTH	SETFA	SETFA	IPOHE	IPOHE	XANST	POLPY
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	0 DAT	21 DAT	0 DAT	21 DAT	0 DAT	21 DAT	21 DAT	21 DAT

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ABUTH	ABUTH	SETFA	SETFA	IPOHE	IPOHE	XANST	POLPY
21	ASGROW 3903 RR									96		100			98		
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 3903 RR									99		100			97		
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 3903 RR									100		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 3903 RR									100		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									0		0			0		
25	PLANTING DATE 2																
25	NONTREATED																
26	ASGROW 4603 RR									100		100			100		
26	PLANTING DATE 2																
26	NO HERBICIDE																
26	HANDWEED																
27	ASGROW 4603 RR									100	100	100	100	100	100		
27	PLANTING DATE 2																
27	AUTHORITY	75	WG	0.25	LB A/A	5.33	OZ/A	PRE	A								
27	FIRSTRATE	84	WG	0.031	LB A/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																
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			98		
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									99		100			99		
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: 04-2C-W270 Location: Belleville Research Center
 Investigator: Bryan Young

									ABUTH	ABUTH	SETFA	SETFA	IPOHE	IPOHE	XANST	POLPY	
									Control	Control	Control	Control	Control	Control	Control	Control	
									Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
									0 DAT	21 DAT	0 DAT	21 DAT	0 DAT	21 DAT	21 DAT	21 DAT	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code								
31	ASGROW 4603 RR									100		100		99			
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 3903 RR									0				0	0	0	
33	PLANTING DATE 3																
33	NONTREATED																
34	ASGROW 3903 RR									100				100	100	100	
34	PLANTING DATE 3																
34	NO HERBICIDE																
34	HANDWEED																
35	ASGROW 3903 RR									100	100	100		100	100	100	
35	PLANTING DATE 3																
35	AUTHORITY	75	WG	0.25	LB A/A	5.33	OZ/A	PRE	A								
35	FIRSTRATE	84	WG	0.031	LB A/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 3903 RR									100				99	100	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 3903 RR									99				98	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 3903 RR									100				99	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 3903 RR									97				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 3903 RR									99				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								

Southern Illinois University

The Effect of Variety, Planting Date, and Weed Height on Weed Control and Grain Yield of Roundup Ready Soybean.
 Project Code: 04-2C-W270 Location: Belleville Research Center
 Investigator: Bryan Young

Weed Code	ABUTH	ABUTH	SETFA	SETFA	IPOHE	IPOHE	XANST	POLPY
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	0 DAT	21 DAT	0 DAT	21 DAT	0 DAT	21 DAT	21 DAT	21 DAT

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ABUTH	ABUTH	SETFA	SETFA	IPOHE	IPOHE	XANST	POLPY
41	ASGROW 4603 RR									0					0	0	0
41	PLANTING DATE 3																
41	NONTREATED																
42	ASGROW 4603 RR									100					100	100	100
42	PLANTING DATE 3																
42	NO HERBICIDE																
42	HANDWEED																
43	ASGROW 4603 RR									100	100	100		100	100	100	100
43	PLANTING DATE 3																
43	AUTHORITY	75	WG	0.25	LB A/A	5.33	OZ/A	PRE	A								
43	FIRSTRATE	84	WG	0.031	LB A/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									100					99	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					96	100	100
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								
46	ASGROW 4603 RR									100					99	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									100					99	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									99					99	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	1.8	0.0	0.0	0.0	2.6	0.0	0.0
Replicate F										0.000	1.109	0.000	0.000	0.000	0.817	0.000	0.000
Replicate Prob(F)										1.0000	0.3342	1.0000	1.0000	1.0000	0.4449	1.0000	1.0000
Treatment F										0.000	2549.970	0.000	0.000	0.000	1289.067	0.000	0.000
Treatment Prob(F)										1.0000	0.0001	1.0000	1.0000	1.0000	0.0001	1.0000	1.0000

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

1. Protocol: SIU/RFK.
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 various postemergence applications. 0 DAT = PRE ratings prior to the 2-4"W application. DAP = Days after planting.
6. Rating dates:
 - Planting Date 1;
 - Ratings at 0 days after the 2-4"W application were on 7-15-04.
 - Ratings at 21 days after the 2-4"W application were on 8-6-04.
 - Ratings at 21 days after the 0-5"W application were on 7-15-04.
 - Ratings at 21 days after the 5-10"W application were on 7-22-04.
 - Ratings at 21 days after the 10-15"W application were on 7-29-04.
 - Ratings at 21 days after the 15-20"W application were on 8-2-04.
 - Ratings at 21 days after the 20-25"W application were on 8-9-04.
 - Planting Date 2;
 - Ratings at 0 days after the 2-4"W application were on 7-15-04.
 - Ratings at 21 days after the 2-4"W application were on 8-6-04.
 - Ratings at 21 days after the 0-5"W application were on 7-29-04.
 - Ratings at 21 days after the 5-10"W application were on 8-4-04.
 - Ratings at 21 days after the 10-15"W application were on 8-9-04.
 - Ratings at 21 days after the 15-20"W application were on 8-16-04.
 - Ratings at 21 days after the 20-25"W application were on 8-23-04.
 - Planting Date 3;
 - Ratings at 0 days after the 2-4"W application were on 8-2-04.
 - Ratings at 21 days after the 2-4"W application were on 8-23-04.
 - Ratings at 21 days after the 0-5"W application were on 8-9-04.
 - Ratings at 21 days after the 5-10"W application were on 8-19-04.
 - Ratings at 21 days after the 10-15"W application were on 8-27-04.
 - Ratings at 21 days after the 15-20"W application were on 8-31-04.
 - Ratings at 21 days after the 20-25"W application were on 9-4-04.
7. Harvested (2) 30 inch rows x 25 ft on:
 - 10-6-04 for planting date 1 and ASGROW 3903 RR,
 - 10-11-04 for planting date 1 and ASGROW 4603 RR,
 - 10-11-04 for planting date 2 and ASGROW 3903 RR,
 - 10-17-04 for planting date 2 and ASGROW 4603 RR,
 - 10-17-04 for planting date 3 and ASGROW 3903 RR, and
 - 10-25-04 for planting date 3 and ASGROW 4603 RR.