

MSU Weed Science Research Program

Weed control systems in BOLT soybean

Trial ID: SOY09-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-16 Investigator: Christy Sprague

Date Planted: May/07/2015 Row Spacing: 30 IN
 Variety: See Comments No. of Reps: 4
 Population: 150,000 seeds/A % OM: 2.7
 Soil Type: Loam pH: 7.1
 Plot Size: 10 X 30 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall chisel plow; soil finish twice

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	ANGR	mainly foxtail species	SETARIA SP.
2.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
3.	AMBEL	RAGWEED, COMMON	AMBROSIA ARTEMISIIFOLIA L.
4.	ABUTH	VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.
5.	SINAR	MUSTARD, WILD	SINAPIS ARVENSIS L.
Crop	Code	Common Name	
1.	GLXMA	SOYBEAN	

Application Description

	A	B
Application Timing:	PRE	POST
Date Treated:	May/07/2015	Jun/19/2015
Time Treated:	11:30 AM	4:15 PM
% Cloud Cover:	70	40
Air Temp., Unit:	77 F	70 F
% Relative Humidity:	62	54
Wind Speed/Unit/Dir:	5 mph S	5 mph N
Soil Temp., Unit:	60 F	72 F
Soil/Leaf Surface M:	5 -	3 5
Soil Moist (1=w 5=d):	4	2

Crop Stage at Each Application

	A	B
Crop Name:	GLXMA	GLXMA
Height (In.):	-	9"
Stage (L):	-	V4

Weed Stage at Each Application

	A	B
Weed 1 Name:	ANGR	ANGR
Height (In.):	-	6"
Stage (L):	-	4
Weed 2 Name:	CHEAL	CHEAL
Height (In.):	-	-
Stage (L):	-	-
Weed 3 Name:	AMBEL	AMBEL
Height (In.):	-	3"
Stage (L):	-	4
Weed 4 Name:	ABUTH	ABUTH
Height (In.):	-	2"
Stage (L):	-	4"
Weed 5 Name:	SINAR	SINAR
Height (In.):	-	-
Stage (L):	-	-

Weed Density (plants/sq. ft.)

	1	2	3	4	5
Date:	Jun/09/2015	Jun/09/2015	Jun/09/2015	Jun/09/2015	Jun/09/2015
Weed Name:	ANGR	CHEAL	AMBEL	ABUTH	SINAR
Density:	177	3	97	2	2

Application Equipment

Appl	Sprayer Type	Speed MPH	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	GPA	Carrier	PSI
A	Cub	3.9	AIXR	11003	22"	20"	100"	19	Water	28
B	Cub	3.8	AIXR	11003	28"	20"	100"	19	Water	28

Comments: Rows 1 and 4 P24T05RR; Rows 2 and 3 P50T15 Bolt Beans

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Weed Code								GLXMA	ANGR	CHEAL	AMBEL
Crop Code								BOLT injury	control	control	control
Rating Data Type								percent	percent	percent	percent
Rating Unit								Jun/03/2015	Jun/03/2015	Jun/03/2015	Jun/03/2015
Rating Date								27 DA-A	27 DA-A	27 DA-A	27 DA-A
Trt-Eval Interval								0	0	0	0
# Subsamples, Dec.											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Valor	51	WG	2	oz/a	PRE	A	28	86	99	82
1	Synchrony XP	28.4	WG	1.125	oz/a	PRE	A				
1	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
1	AMS		WG	17	lb/100 gal	POST	B				
2	Envive	41.3	WG	3.5	oz/a	PRE	A	26	92	99	90
2	Synchrony XP	28.4	WG	1.125	oz/a	POST	B				
2	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
2	AMS		WG	17	lb/100 gal	POST	B				
3	Basis Blend	30	WG	1.25	oz/a	PRE	A	7	99	99	0
3	Synchrony XP	28.4	WG	1.125	oz/a	POST	B				
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
3	AMS		WG	17	lb/100 gal	POST	B				
4	Valor	51	WG	2	oz/a	PRE	A	23	99	99	89
4	Basis Blend	30	WG	1.25	oz/a	PRE	A				
4	Synchrony XP	28.4	WG	1.125	oz/a	POST	B				
4	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
4	AMS		WG	17	lb/100 gal	POST	B				
5	Untreated							0	0	0	0
6	Diligent	37.8	WG	4	oz/a	PRE	A	29	99	99	97
6	Synchrony XP	28.4	WG	1.125	oz/a	POST	B				
6	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
6	AMS		WG	17	lb/100 gal	POST	B				
7	Valor	51	WG	2	oz/a	PRE	A	28	76	99	81
7	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
7	AMS		WG	17	lb/100 gal	POST	B				
LSD (P=.05)								4.3	7.8	0.0	4.0
CV								14.56	6.67	0.0	4.3

Means followed by same letter do not significantly differ (P=.05, LSD)

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Weed Code								ABUTH	SINAR	GLXMA	ANGR
Crop Code										BOLTinjury	
Rating Data Type								control	control	percent	control
Rating Unit								percent	percent	percent	percent
Rating Date								Jun/03/2015	Jun/03/2015	Jun/19/2015	Jun/19/2015
Trt-Eval Interval								27 DA-A	27 DA-A	0 DA-B	0 DA-B
# Subsamples, Dec.								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Valor	51	WG	2	oz/a	PRE	A	99	98	2	50
1	Synchrony XP	28.4	WG	1.125	oz/a	PRE	A				
1	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
1	AMS		WG	17	lb/100 gal	POST	B				
2	Envive	41.3	WG	3.5	oz/a	PRE	A	99	99	1	85
2	Synchrony XP	28.4	WG	1.125	oz/a	POST	B				
2	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
2	AMS		WG	17	lb/100 gal	POST	B				
3	Basis Blend	30	WG	1.25	oz/a	PRE	A	99	99	0	98
3	Synchrony XP	28.4	WG	1.125	oz/a	POST	B				
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
3	AMS		WG	17	lb/100 gal	POST	B				
4	Valor	51	WG	2	oz/a	PRE	A	99	99	8	97
4	Basis Blend	30	WG	1.25	oz/a	PRE	A				
4	Synchrony XP	28.4	WG	1.125	oz/a	POST	B				
4	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
4	AMS		WG	17	lb/100 gal	POST	B				
5	Untreated							0	0	0	0
6	Diligent	37.8	WG	4	oz/a	PRE	A	99	99	9	99
6	Synchrony XP	28.4	WG	1.125	oz/a	POST	B				
6	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
6	AMS		WG	17	lb/100 gal	POST	B				
7	Valor	51	WG	2	oz/a	PRE	A	99	99	0	45
7	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
7	AMS		WG	17	lb/100 gal	POST	B				
LSD (P=.05)								0.0	1.1	3.1	4.0
CV								0.0	0.89	77.07	4.02

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Weed Code								CHEAL	AMBEL	ABUTH	SINAR
Crop Code											
Rating Data Type								control	control	control	control
Rating Unit								percent	percent	percent	percent
Rating Date								Jun/19/2015	Jun/19/2015	Jun/19/2015	Jun/19/2015
Trt-Eval Interval								0 DA-B	0 DA-B	0 DA-B	0 DA-B
# Subsamples, Dec.								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Valor	51	WG	2	oz/a	PRE	A	99	68	99	99
1	Synchrony XP	28.4	WG	1.125	oz/a	PRE	A				
1	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
1	AMS		WG	17	lb/100 gal	POST	B				
2	Envive	41.3	WG	3.5	oz/a	PRE	A	99	76	99	99
2	Synchrony XP	28.4	WG	1.125	oz/a	POST	B				
2	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
2	AMS		WG	17	lb/100 gal	POST	B				
3	Basis Blend	30	WG	1.25	oz/a	PRE	A	99	0	99	99
3	Synchrony XP	28.4	WG	1.125	oz/a	POST	B				
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
3	AMS		WG	17	lb/100 gal	POST	B				
4	Valor	51	WG	2	oz/a	PRE	A	99	77	99	99
4	Basis Blend	30	WG	1.25	oz/a	PRE	A				
4	Synchrony XP	28.4	WG	1.125	oz/a	POST	B				
4	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
4	AMS		WG	17	lb/100 gal	POST	B				
5	Untreated							0	0	0	0
6	Diligent	37.8	WG	4	oz/a	PRE	A	99	82	99	99
6	Synchrony XP	28.4	WG	1.125	oz/a	POST	B				
6	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
6	AMS		WG	17	lb/100 gal	POST	B				
7	Valor	51	WG	2	oz/a	PRE	A	99	65	99	96
7	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
7	AMS		WG	17	lb/100 gal	POST	B				
LSD (P=.05)								0.0	4.4	0.0	3.9
CV								0.0	5.68	0.0	3.14

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Weed Code								ANGR				
Crop Code								GLXMA	GLXMA	GLXMA	GLXMA	control
Rating Data Type								RRinjury	BOLTinjury	RRinjury	BOLTinjury	percent
Rating Unit								percent	percent	percent	percent	percent
Rating Date								Jun/26/2015	Jun/26/2015	Jul/02/2015	Jul/02/2015	Jul/02/2015
Trt-Eval Interval								7 DA-B	7 DA-B	13 DA-B	13 DA-B	13 DA-B
# Subsamples, Dec.								0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	Valor	51	WG	2	oz/a	PRE	A	23	5	18	5	99
1	Synchrony XP	28.4	WG	1.125	oz/a	PRE	A					
1	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
1	AMS		WG	17	lb/100 gal	POST	B					
2	Envive	41.3	WG	3.5	oz/a	PRE	A	20	6	18	5	99
2	Synchrony XP	28.4	WG	1.125	oz/a	POST	B					
2	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
2	AMS		WG	17	lb/100 gal	POST	B					
3	Basis Blend	30	WG	1.25	oz/a	PRE	A	24	9	30	14	99
3	Synchrony XP	28.4	WG	1.125	oz/a	POST	B					
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
3	AMS		WG	17	lb/100 gal	POST	B					
4	Valor	51	WG	2	oz/a	PRE	A	25	10	24	11	99
4	Basis Blend	30	WG	1.25	oz/a	PRE	A					
4	Synchrony XP	28.4	WG	1.125	oz/a	POST	B					
4	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
4	AMS		WG	17	lb/100 gal	POST	B					
5	Untreated							0	0	0	0	0
6	Diligent	37.8	WG	4	oz/a	PRE	A	24	13	25	10	99
6	Synchrony XP	28.4	WG	1.125	oz/a	POST	B					
6	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
6	AMS		WG	17	lb/100 gal	POST	B					
7	Valor	51	WG	2	oz/a	PRE	A	0	1	0	0	97
7	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
7	AMS		WG	17	lb/100 gal	POST	B					
LSD (P=.05)								3.3	4.7	4.7	4.5	1.2
CV								13.69	50.4	19.48	47.25	0.95

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Weed Code								CHEAL	AMBEL	ABUTH	SINAR	GLXMA
Crop Code												
Rating Data Type								control	control	control	control	RRinjury
Rating Unit								percent	percent	percent	percent	percent
Rating Date								Jul/02/2015	Jul/02/2015	Jun/19/2015	Jul/02/2015	Jul/17/2015
Trt-Eval Interval								13 DA-B	13 DA-B	0 DA-B	13 DA-B	28 DA-B
# Subsamples, Dec.								0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	Valor	51	WG	2	oz/a	PRE	A	99	97	99	99	14
1	Synchrony XP	28.4	WG	1.125	oz/a	PRE	A					
1	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
1	AMS		WG	17	lb/100 gal	POST	B					
2	Envive	41.3	WG	3.5	oz/a	PRE	A	99	98	99	99	11
2	Synchrony XP	28.4	WG	1.125	oz/a	POST	B					
2	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
2	AMS		WG	17	lb/100 gal	POST	B					
3	Basis Blend	30	WG	1.25	oz/a	PRE	A	99	99	99	99	23
3	Synchrony XP	28.4	WG	1.125	oz/a	POST	B					
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
3	AMS		WG	17	lb/100 gal	POST	B					
4	Valor	51	WG	2	oz/a	PRE	A	99	97	99	99	19
4	Basis Blend	30	WG	1.25	oz/a	PRE	A					
4	Synchrony XP	28.4	WG	1.125	oz/a	POST	B					
4	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
4	AMS		WG	17	lb/100 gal	POST	B					
5	Untreated							0	0	0	0	0
6	Diligent	37.8	WG	4	oz/a	PRE	A	99	99	99	99	19
6	Synchrony XP	28.4	WG	1.125	oz/a	POST	B					
6	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
6	AMS		WG	17	lb/100 gal	POST	B					
7	Valor	51	WG	2	oz/a	PRE	A	99	97	99	99	0
7	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
7	AMS		WG	17	lb/100 gal	POST	B					
LSD (P=.05)								0.6	1.7	0.0	0.0	4.4
CV								0.45	1.33	0.0	0.0	24.58

Means followed by same letter do not significantly differ (P=.05, LSD)

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Weed Code								GLXMA	ANGR	CHEAL	AMBEL	ABUTH
Crop Code								BOLT injury	control	control	control	control
Rating Data Type								percent	percent	percent	percent	percent
Rating Unit								percent	percent	percent	percent	percent
Rating Date								Jul/17/2015	Jul/17/2015	Jul/17/2015	Jul/17/2015	Jul/17/2015
Trt-Eval Interval								28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B
# Subsamples, Dec.								0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	Valor	51	WG	2	oz/a	PRE	A	0	89	99	95	99
1	Synchrony XP	28.4	WG	1.125	oz/a	PRE	A					
1	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
1	AMS		WG	17	lb/100 gal	POST	B					
2	Envive	41.3	WG	3.5	oz/a	PRE	A	0	90	99	93	99
2	Synchrony XP	28.4	WG	1.125	oz/a	POST	B					
2	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
2	AMS		WG	17	lb/100 gal	POST	B					
3	Basis Blend	30	WG	1.25	oz/a	PRE	A	11	90	99	98	99
3	Synchrony XP	28.4	WG	1.125	oz/a	POST	B					
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
3	AMS		WG	17	lb/100 gal	POST	B					
4	Valor	51	WG	2	oz/a	PRE	A	6	90	99	94	99
4	Basis Blend	30	WG	1.25	oz/a	PRE	A					
4	Synchrony XP	28.4	WG	1.125	oz/a	POST	B					
4	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
4	AMS		WG	17	lb/100 gal	POST	B					
5	Untreated							0	0	0	0	0
6	Diligent	37.8	WG	4	oz/a	PRE	A	6	93	99	92	99
6	Synchrony XP	28.4	WG	1.125	oz/a	POST	B					
6	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
6	AMS		WG	17	lb/100 gal	POST	B					
7	Valor	51	WG	2	oz/a	PRE	A	0	84	99	90	99
7	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
7	AMS		WG	17	lb/100 gal	POST	B					
LSD (P=.05)								4.1	3.4	0.0	5.9	0.0
CV								84.25	3.02	0.0	4.97	0.0

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Weed Code								SINAR	GLXMA	GLXMA	ANGR
Crop Code								control	RRinjury	BOLTinjury	control
Rating Data Type								percent	percent	percent	percent
Rating Unit								Jul/17/2015	Aug/14/2015	Aug/14/2015	Aug/14/2015
Rating Date								28 DA-B	56 DA-B	56 DA-B	56 DA-B
Trt-Eval Interval								0	0	0	0
# Subsamples, Dec.											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Valor	51	WG	2	oz/a	PRE	A	99	25	0	98
1	Synchrony XP	28.4	WG	1.125	oz/a	PRE	A				
1	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
1	AMS		WG	17	lb/100 gal	POST	B				
2	Envive	41.3	WG	3.5	oz/a	PRE	A	99	24	0	97
2	Synchrony XP	28.4	WG	1.125	oz/a	POST	B				
2	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
2	AMS		WG	17	lb/100 gal	POST	B				
3	Basis Blend	30	WG	1.25	oz/a	PRE	A	99	29	5	94
3	Synchrony XP	28.4	WG	1.125	oz/a	POST	B				
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
3	AMS		WG	17	lb/100 gal	POST	B				
4	Valor	51	WG	2	oz/a	PRE	A	99	26	1	96
4	Basis Blend	30	WG	1.25	oz/a	PRE	A				
4	Synchrony XP	28.4	WG	1.125	oz/a	POST	B				
4	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
4	AMS		WG	17	lb/100 gal	POST	B				
5	Untreated							0	0	0	0
6	Diligent	37.8	WG	4	oz/a	PRE	A	99	26	0	96
6	Synchrony XP	28.4	WG	1.125	oz/a	POST	B				
6	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
6	AMS		WG	17	lb/100 gal	POST	B				
7	Valor	51	WG	2	oz/a	PRE	A	99	0	0	88
7	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
7	AMS		WG	17	lb/100 gal	POST	B				
LSD (P=.05)								0.0	4.4	1.2	3.9
CV								0.0	16.09	102.03	3.23

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Weed Code								CHEAL	AMBEL	ABUTH	SINAR
Crop Code											
Rating Data Type								control	control	control	control
Rating Unit								percent	percent	percent	percent
Rating Date								Aug/14/2015	Aug/14/2015	Aug/14/2015	Aug/14/2015
Trt-Eval Interval								56 DA-B	56 DA-B	56 DA-B	56 DA-B
# Subsamples, Dec.								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Valor	51	WG	2	oz/a	PRE	A	99	99	99	99
1	Synchrony XP	28.4	WG	1.125	oz/a	PRE	A				
1	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
1	AMS		WG	17	lb/100 gal	POST	B				
2	Envive	41.3	WG	3.5	oz/a	PRE	A	99	98	99	99
2	Synchrony XP	28.4	WG	1.125	oz/a	POST	B				
2	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
2	AMS		WG	17	lb/100 gal	POST	B				
3	Basis Blend	30	WG	1.25	oz/a	PRE	A	99	99	99	99
3	Synchrony XP	28.4	WG	1.125	oz/a	POST	B				
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
3	AMS		WG	17	lb/100 gal	POST	B				
4	Valor	51	WG	2	oz/a	PRE	A	99	96	99	99
4	Basis Blend	30	WG	1.25	oz/a	PRE	A				
4	Synchrony XP	28.4	WG	1.125	oz/a	POST	B				
4	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
4	AMS		WG	17	lb/100 gal	POST	B				
5	Untreated							0	0	0	0
6	Diligent	37.8	WG	4	oz/a	PRE	A	99	95	99	99
6	Synchrony XP	28.4	WG	1.125	oz/a	POST	B				
6	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
6	AMS		WG	17	lb/100 gal	POST	B				
7	Valor	51	WG	2	oz/a	PRE	A	99	91	99	99
7	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
7	AMS		WG	17	lb/100 gal	POST	B				
LSD (P=.05)								0.0	4.9	0.0	0.0
CV								0.0	4.02	0.0	0.0

Means followed by same letter do not significantly differ (P=.05, LSD)