

MSU Weed Science Research Program

Evaluation of Roundup Xtend systems in no-till soybean - "Regulated"

Trial ID: NTS02-14
 Conducted: Campus T-18

Study Dir.: Sprague and Powell
 Investigator: Christy Sprague

Date Planted: May/22/2014
Variety: RR2 XTEND
Population: 150,000 seeds/A
Soil Type: Loam
Plot Size: 10 x 30 FT

Row Spacing: 30 IN
No. of Reps: 4
% OM: 3.3
pH: 6.0
Design: RANDOMIZED COMPLETE BLOCK

Tillage: No-till
Fertilizer: None

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	ANGR	mainly foxtail species	SETARIA SP.
2.	STEME	CHICKWEED, COMMON	STELLARIA MEDIA (L.)
3.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
4.	AMBEL	RAGWEED, COMMON	AMBROSIA ARTEMISIIFOLIA L.
Crop	Code	Common Name	
1.	GLXMA	SOYBEAN	

Application Description

	A	B	C
Application Timing:	7 EPP	1 EPP	POST
Date Treated:	May/05/2014	May/21/2014	Jun/27/2014
Time Treated:	11:18 AM	7:10 PM	1:05 PM
% Cloud Cover:	100	10	50
Air Temp., Unit:	45 F	89 F	82 F
% Relative Humidity:	70	80	61
Wind Speed/Unit/Dir:	2 mph NE	5 mph W	3 mph SE
Soil Temp., Unit:	40 F	70 F	70 F
Soil/Leaf Surface M:	4 3	4 3	4 5
Soil Moist (1=w 5=d):	4	4	3

Crop Stage at Each Application

	A	B	C
Crop Name:	GLXMA	GLXMA	GLXMA
Height (In.):	-	-	9"
Stage (L):	-	-	V3

Weed Stage at Each Application

	A	B	C
Weed 1 Name:	ANGR	ANGR	ANGR
Height (In.):	-	-	5-14"
Stage (L):	-	-	5-12
Weed 2 Name:	STEME	STEME	STEME
Height (In.):	0.5"	5"	6"
Stage (L):	many	flowering	flowering
Weed 3 Name:	CHEAL	CHEAL	CHEAL
Height (In.):	0.5"	2-4"	3-11"
Stage (L):	coty-2	6-10	7-many
Weed 4 Name:	AMBEL	AMBEL	AMBEL
Height (In.):	-	2"	4-13"
Stage (L):	-	4	8-many

Weed Density (plants/sq. ft.)

	1	2	3	4
Date:	Jul/17/2014	Jul/17/2014	Jul/17/2014	Jul/17/2014
Weed Name:	ANGR	CHEAL	AMBEL	STEME
Density:	<1	4	<1	1

Application Equipment

App	Sprayer Type	Speed MPH	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom width	GPA	Carrier	PSI
A	Cub	3.8	TTI	11003	26"	20"	100"	19	Water	30
B	Cub	3.8	TTI	11003	26"	20"	100"	19	Water	30
C	Cub	3.8	TTI	11003	30"	20"	100"	19	Water	30

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Weed Code	STEME	CHEAL	STEME	ANGR
Crop Code				
Rating Data Type	control	control	control	control
Rating Unit	percent	percent	percent	percent
Rating Date	May/14/2014	May/14/2014	May/28/2014	May/28/2014
Trt-Eval Interval	9 DA-A	9 DA-A	7 DA-B	7 DA-B
# Subsamples, Dec.				

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code				
1	2,4-D ester	4	L	1	pt/a	7 EPP	A	92	99	98	99
1	Roundup PowerMax	4.5	SL	28	fl oz/a	7 EPP	A				
1	MON-10		L	2	% v/v	7 EPP	A				
1	Roundup PowerMax	4.5	SL	28	fl oz/a	POST	C				
1	MON-10		L	2	% v/v	POST	C				
2	Valor XLT	40.3	WG	3	oz/a	7 EPP	A	95	99	99	99
2	2,4-D ester	4	L	1	pt/a	7 EPP	A				
2	Roundup PowerMax	4.5	SL	28	fl oz/a	7 EPP	A				
2	MON-10		L	2	% v/v	7 EPP	A				
2	Roundup PowerMax	4.5	SL	28	fl oz/a	POST	C				
2	MON-10		L	2	% v/v	POST	C				
3	Valor XLT	40.3	WG	3	oz/a	7 EPP	A	98	99	99	99
3	2,4-D ester	4	L	1	pt/a	7 EPP	A				
3	Roundup PowerMax	4.5	SL	28	fl oz/a	7 EPP	A				
3	MON-10		L	2	% v/v	7 EPP	A				
3	Flexstar GT	2.82	L	3.5	pt/a	POST	C				
3	Surfactant		L	0.25	% v/v	POST	C				
3	MON-10		L	2	% v/v	POST	C				
4	Valor XLT	40.3	WG	3	oz/a	7 EPP	A	94	99	99	99
4	Roundup Xtend	3	SL	2	qt/a	7 EPP	A				
4	MON-10		L	2	% v/v	7 EPP	A				
4	Roundup PowerMax	4.5	SL	28	fl oz/a	POST	C				
4	MON-10		L	2	% v/v	POST	C				
5	Valor XLT	40.3	WG	3	oz/a	7 EPP	A	95	98	99	99
5	Roundup Xtend	3	SL	2	qt/a	7 EPP	A				
5	MON-10		L	2	% v/v	7 EPP	A				
5	Roundup Xtend	3	SL	2	qt/a	POST	C				
5	MON-10		L	2	% v/v	POST	C				
6	Valor XLT	40.3	WG	3	oz/a	7 EPP	A	95	99	99	99
6	Roundup Xtend	3	SL	2	qt/a	7 EPP	A				
6	MON-10		L	2	% v/v	7 EPP	A				
6	Flexstar GT	2.82	L	3.5	pt/a	POST	C				
6	Surfactant		L	0.25	% v/v	POST	C				
6	MON-10		L	2	% v/v	POST	C				
7	Valor XLT	40.3	WG	3	oz/a	1 EPP	B			90	99
7	Roundup Xtend	3	SL	2	qt/a	1 EPP	B				
7	MON-10		L	2	% v/v	1 EPP	B				
7	Roundup Xtend	3	SL	2	qt/a	POST	C				
7	Warrant	3	L	3	pt/a	POST	C				
7	MON-10		L	2	% v/v	POST	C				
8	Valor XLT	40.3	WG	3	oz/a	1 EPP	B			93	99
8	Roundup Xtend	3	SL	2	qt/a	1 EPP	B				
8	MON-10		L	2	% v/v	1 EPP	B				
8	Roundup Xtend	3	SL	2	qt/a	POST	C				
8	Cobra	2	L	8	fl oz/a	POST	C				
8	Warrant	3	L	3	pt/a	POST	C				
8	MON-10		L	2	% v/v	POST	C				

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Trial ID: NTS02-14 Study Dir.: Sprague and Powell
 Conducted: Campus T-18 Investigator: Christy Sprague

Weed Code	STEME	CHEAL	STEME	ANGR
Crop Code				
Rating Data Type	control	control	control	control
Rating Unit	percent	percent	percent	percent
Rating Date	May/14/2014	May/14/2014	May/28/2014	May/28/2014
Trt-Eval Interval	9 DA-A	9 DA-A	7 DA-B	7 DA-B
# Subsamples, Dec.				

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	STEME	CHEAL	STEME	ANGR
9	Untreated							0	0	0	0
10	Roundup Xtend	3	SL	2	qt/a	7 EPP	A	93	99	99	99
10	MON-10		L	2	% v/v	7 EPP	A				
10	Roundup PowerMax	4.5	SL	28	fl oz/a	POST	C				
10	MON-10		L	2	% v/v	POST	C				
LSD (P=.05)								8.3	1.0	7.3	0.0
CV								6.87	0.82	5.74	0.0

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

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Weed Code	CHEAL	AMBEL	GLXMA	STEME
Crop Code				
Rating Data Type	control	control	injury	control
Rating Unit	percent	percent	percent	percent
Rating Date	May/28/2014	May/28/2014	Jun/27/2014	Jun/27/2014
Trt-Eval Interval	7 DA-B	7 DA-B	37 DA-B	37 DA-B
# Subsamples, Dec.				

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code				
1	2,4-D ester	4	L	1	pt/a	7 EPP	A	99	99	0	87
1	Roundup PowerMax	4.5	SL	28	fl oz/a	7 EPP	A				
1	MON-10		L	2	% v/v	7 EPP	A				
1	Roundup PowerMax	4.5	SL	28	fl oz/a	POST	C				
1	MON-10		L	2	% v/v	POST	C				
2	Valor XLT	40.3	WG	3	oz/a	7 EPP	A	99	99	0	97
2	2,4-D ester	4	L	1	pt/a	7 EPP	A				
2	Roundup PowerMax	4.5	SL	28	fl oz/a	7 EPP	A				
2	MON-10		L	2	% v/v	7 EPP	A				
2	Roundup PowerMax	4.5	SL	28	fl oz/a	POST	C				
2	MON-10		L	2	% v/v	POST	C				
3	Valor XLT	40.3	WG	3	oz/a	7 EPP	A	99	99	0	99
3	2,4-D ester	4	L	1	pt/a	7 EPP	A				
3	Roundup PowerMax	4.5	SL	28	fl oz/a	7 EPP	A				
3	MON-10		L	2	% v/v	7 EPP	A				
3	Flexstar GT	2.82	L	3.5	pt/a	POST	C				
3	Surfactant		L	0.25	% v/v	POST	C				
3	MON-10		L	2	% v/v	POST	C				
4	Valor XLT	40.3	WG	3	oz/a	7 EPP	A	99	99	0	99
4	Roundup Xtend	3	SL	2	qt/a	7 EPP	A				
4	MON-10		L	2	% v/v	7 EPP	A				
4	Roundup PowerMax	4.5	SL	28	fl oz/a	POST	C				
4	MON-10		L	2	% v/v	POST	C				
5	Valor XLT	40.3	WG	3	oz/a	7 EPP	A	99	99	0	99
5	Roundup Xtend	3	SL	2	qt/a	7 EPP	A				
5	MON-10		L	2	% v/v	7 EPP	A				
5	Roundup Xtend	3	SL	2	qt/a	POST	C				
5	MON-10		L	2	% v/v	POST	C				
6	Valor XLT	40.3	WG	3	oz/a	7 EPP	A	99	99	0	99
6	Roundup Xtend	3	SL	2	qt/a	7 EPP	A				
6	MON-10		L	2	% v/v	7 EPP	A				
6	Flexstar GT	2.82	L	3.5	pt/a	POST	C				
6	Surfactant		L	0.25	% v/v	POST	C				
6	MON-10		L	2	% v/v	POST	C				
7	Valor XLT	40.3	WG	3	oz/a	1 EPP	B	99	99	0	99
7	Roundup Xtend	3	SL	2	qt/a	1 EPP	B				
7	MON-10		L	2	% v/v	1 EPP	B				
7	Roundup Xtend	3	SL	2	qt/a	POST	C				
7	Warrant	3	L	3	pt/a	POST	C				
7	MON-10		L	2	% v/v	POST	C				
8	Valor XLT	40.3	WG	3	oz/a	1 EPP	B	99	99	0	99
8	Roundup Xtend	3	SL	2	qt/a	1 EPP	B				
8	MON-10		L	2	% v/v	1 EPP	B				
8	Roundup Xtend	3	SL	2	qt/a	POST	C				
8	Cobra	2	L	8	fl oz/a	POST	C				
8	Warrant	3	L	3	pt/a	POST	C				
8	MON-10		L	2	% v/v	POST	C				

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Crop Code				
Rating Data Type	control	control	injury	control
Rating Unit	percent	percent	percent	percent
Rating Date	May/28/2014	May/28/2014	Jun/27/2014	Jun/27/2014
Trt-Eval Interval	7 DA-B	7 DA-B	37 DA-B	37 DA-B
# Subsamples, Dec.				

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	CHEAL	AMBEL	GLXMA	STEME
9	Untreated							0	0	0	0
10	Roundup Xtend	3	SL	2	qt/a	7 EPP	A	99	99	0	88
10	MON-10		L	2	% v/v	7 EPP	A				
10	Roundup PowerMax	4.5	SL	28	fl oz/a	POST	C				
10	MON-10		L	2	% v/v	POST	C				

LSD (P=.05)	0.0	0.0	0.0	8.9
CV	0.0	0.0	0.0	7.11

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

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Weed Code	ANGR	CHEAL	AMBEL	GLXMA
Crop Code				
Rating Data Type	control	control	control	injury
Rating Unit	percent	percent	percent	percent
Rating Date	Jun/27/2014	Jun/27/2014	Jun/27/2014	Jul/03/2014
Trt-Eval Interval	37 DA-B	37 DA-B	37 DA-B	6 DA-C
# Subsamples, Dec.				

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	ANGR	CHEAL	AMBEL	GLXMA
1	2,4-D ester	4	L	1	pt/a	7 EPP	A	55	83	71	2
1	Roundup PowerMax	4.5	SL	28	fl oz/a	7 EPP	A				
1	MON-10		L	2	% v/v	7 EPP	A				
1	Roundup PowerMax	4.5	SL	28	fl oz/a	POST	C				
1	MON-10		L	2	% v/v	POST	C				
2	Valor XLT	40.3	WG	3	oz/a	7 EPP	A	90	99	98	2
2	2,4-D ester	4	L	1	pt/a	7 EPP	A				
2	Roundup PowerMax	4.5	SL	28	fl oz/a	7 EPP	A				
2	MON-10		L	2	% v/v	7 EPP	A				
2	Roundup PowerMax	4.5	SL	28	fl oz/a	POST	C				
2	MON-10		L	2	% v/v	POST	C				
3	Valor XLT	40.3	WG	3	oz/a	7 EPP	A	85	99	95	15
3	2,4-D ester	4	L	1	pt/a	7 EPP	A				
3	Roundup PowerMax	4.5	SL	28	fl oz/a	7 EPP	A				
3	MON-10		L	2	% v/v	7 EPP	A				
3	Flexstar GT	2.82	L	3.5	pt/a	POST	C				
3	Surfactant		L	0.25	% v/v	POST	C				
3	MON-10		L	2	% v/v	POST	C				
4	Valor XLT	40.3	WG	3	oz/a	7 EPP	A	93	99	96	2
4	Roundup Xtend	3	SL	2	qt/a	7 EPP	A				
4	MON-10		L	2	% v/v	7 EPP	A				
4	Roundup PowerMax	4.5	SL	28	fl oz/a	POST	C				
4	MON-10		L	2	% v/v	POST	C				
5	Valor XLT	40.3	WG	3	oz/a	7 EPP	A	91	99	99	7
5	Roundup Xtend	3	SL	2	qt/a	7 EPP	A				
5	MON-10		L	2	% v/v	7 EPP	A				
5	Roundup Xtend	3	SL	2	qt/a	POST	C				
5	MON-10		L	2	% v/v	POST	C				
6	Valor XLT	40.3	WG	3	oz/a	7 EPP	A	96	99	99	18
6	Roundup Xtend	3	SL	2	qt/a	7 EPP	A				
6	MON-10		L	2	% v/v	7 EPP	A				
6	Flexstar GT	2.82	L	3.5	pt/a	POST	C				
6	Surfactant		L	0.25	% v/v	POST	C				
6	MON-10		L	2	% v/v	POST	C				
7	Valor XLT	40.3	WG	3	oz/a	1 EPP	B	96	99	99	7
7	Roundup Xtend	3	SL	2	qt/a	1 EPP	B				
7	MON-10		L	2	% v/v	1 EPP	B				
7	Roundup Xtend	3	SL	2	qt/a	POST	C				
7	Warrant	3	L	3	pt/a	POST	C				
7	MON-10		L	2	% v/v	POST	C				
8	Valor XLT	40.3	WG	3	oz/a	1 EPP	B	96	99	99	20
8	Roundup Xtend	3	SL	2	qt/a	1 EPP	B				
8	MON-10		L	2	% v/v	1 EPP	B				
8	Roundup Xtend	3	SL	2	qt/a	POST	C				
8	Cobra	2	L	8	fl oz/a	POST	C				
8	Warrant	3	L	3	pt/a	POST	C				
8	MON-10		L	2	% v/v	POST	C				

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Weed Code	ANGR	CHEAL	AMBEL	GLXMA
Crop Code				
Rating Data Type	control	control	control	injury
Rating Unit	percent	percent	percent	percent
Rating Date	Jun/27/2014	Jun/27/2014	Jun/27/2014	Jul/03/2014
Trt-Eval Interval	37 DA-B	37 DA-B	37 DA-B	6 DA-C
# Subsamples, Dec.				

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	ANGR	CHEAL	AMBEL	GLXMA
9	Untreated							0	0	0	0
10	Roundup Xtend	3	SL	2	qt/a	7 EPP	A	60	78	82	2
10	MON-10		L	2	% v/v	7 EPP	A				
10	Roundup PowerMax	4.5	SL	28	fl oz/a	POST	C				
10	MON-10		L	2	% v/v	POST	C				

LSD (P=.05)	9.0	5.5	16.9	2.1
CV	8.17	4.46	13.93	20.25

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

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 Investigator: Christy Sprague

Weed Code	GLXMA	STEME	ANGR	CHEAL	AMBEL
Crop Code	injury	control	control	control	control
Rating Data Type	percent	percent	percent	percent	percent
Rating Unit	Jul/11/2014	Jul/11/2014	Jul/11/2014	Jul/11/2014	Jul/11/2014
Rating Date	14 DA-C	14 DA-C	14 DA-C	14 DA-C	14 DA-C
Trt-Eval Interval					
# Subsamples, Dec.					

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code					
1	2,4-D ester	4	L	1	pt/a	7 EPP	A	0	99	99	99	99
1	Roundup PowerMax	4.5	SL	28	fl oz/a	7 EPP	A					
1	MON-10		L	2	% v/v	7 EPP	A					
1	Roundup PowerMax	4.5	SL	28	fl oz/a	POST	C					
1	MON-10		L	2	% v/v	POST	C					
2	Valor XLT	40.3	WG	3	oz/a	7 EPP	A	0	99	99	99	99
2	2,4-D ester	4	L	1	pt/a	7 EPP	A					
2	Roundup PowerMax	4.5	SL	28	fl oz/a	7 EPP	A					
2	MON-10		L	2	% v/v	7 EPP	A					
2	Roundup PowerMax	4.5	SL	28	fl oz/a	POST	C					
2	MON-10		L	2	% v/v	POST	C					
3	Valor XLT	40.3	WG	3	oz/a	7 EPP	A	2	99	99	99	99
3	2,4-D ester	4	L	1	pt/a	7 EPP	A					
3	Roundup PowerMax	4.5	SL	28	fl oz/a	7 EPP	A					
3	MON-10		L	2	% v/v	7 EPP	A					
3	Flexstar GT	2.82	L	3.5	pt/a	POST	C					
3	Surfactant		L	0.25	% v/v	POST	C					
3	MON-10		L	2	% v/v	POST	C					
4	Valor XLT	40.3	WG	3	oz/a	7 EPP	A	0	99	99	99	99
4	Roundup Xtend	3	SL	2	qt/a	7 EPP	A					
4	MON-10		L	2	% v/v	7 EPP	A					
4	Roundup PowerMax	4.5	SL	28	fl oz/a	POST	C					
4	MON-10		L	2	% v/v	POST	C					
5	Valor XLT	40.3	WG	3	oz/a	7 EPP	A	0	99	99	99	99
5	Roundup Xtend	3	SL	2	qt/a	7 EPP	A					
5	MON-10		L	2	% v/v	7 EPP	A					
5	Roundup Xtend	3	SL	2	qt/a	POST	C					
5	MON-10		L	2	% v/v	POST	C					
6	Valor XLT	40.3	WG	3	oz/a	7 EPP	A	4	99	99	99	99
6	Roundup Xtend	3	SL	2	qt/a	7 EPP	A					
6	MON-10		L	2	% v/v	7 EPP	A					
6	Flexstar GT	2.82	L	3.5	pt/a	POST	C					
6	Surfactant		L	0.25	% v/v	POST	C					
6	MON-10		L	2	% v/v	POST	C					
7	Valor XLT	40.3	WG	3	oz/a	1 EPP	B	0	99	99	99	99
7	Roundup Xtend	3	SL	2	qt/a	1 EPP	B					
7	MON-10		L	2	% v/v	1 EPP	B					
7	Roundup Xtend	3	SL	2	qt/a	POST	C					
7	Warrant	3	L	3	pt/a	POST	C					
7	MON-10		L	2	% v/v	POST	C					
8	Valor XLT	40.3	WG	3	oz/a	1 EPP	B	5	99	99	99	99
8	Roundup Xtend	3	SL	2	qt/a	1 EPP	B					
8	MON-10		L	2	% v/v	1 EPP	B					
8	Roundup Xtend	3	SL	2	qt/a	POST	C					
8	Cobra	2	L	8	fl oz/a	POST	C					
8	Warrant	3	L	3	pt/a	POST	C					
8	MON-10		L	2	% v/v	POST	C					

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Study Dir.: Sprague and Powell
 Investigator: Christy Sprague

Weed Code										
Crop Code										
Rating Data Type										
Rating Unit										
Rating Date										
Trt-Eval Interval										
# Subsamples, Dec.										

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	GLXMA injury percent	STEME control percent	ANGR control percent	CHEAL control percent	AMBEL control percent
9	Untreated							0	0	0	0	0
10	Roundup Xtend	3	SL	2	qt/a	7 EPP	A	0	99	99	99	99
10	MON-10		L	2	% v/v	7 EPP	A					
10	Roundup PowerMax	4.5	SL	28	fl oz/a	POST	C					
10	MON-10		L	2	% v/v	POST	C					

LSD (P=.05)								1.1	0.0	0.0	0.0	0.0
CV								75.52	0.0	0.0	0.0	0.0

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

MSU Weed Science Research Program

Evaluation of Roundup Xtend systems in no-till soybean - "Regulated"

Trial ID: NTS02-14
 Conducted: Campus T-18

Study Dir.: Sprague and Powell
 Investigator: Christy Sprague

Weed Code	GLXMA	ANGR	CHEAL	AMBEL
Crop Code	injury	control	control	control
Rating Data Type	percent	percent	percent	percent
Rating Unit	Jul/31/2014	Jul/31/2014	Jul/31/2014	Jul/31/2014
Rating Date	34 DA-C	34 DA-C	34 DA-C	34 DA-C
Trt-Eval Interval				
# Subsamples, Dec.				

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code				
1	2,4-D ester	4	L	1	pt/a	7 EPP	A	0	99	99	99
1	Roundup PowerMax	4.5	SL	28	fl oz/a	7 EPP	A				
1	MON-10		L	2	% v/v	7 EPP	A				
1	Roundup PowerMax	4.5	SL	28	fl oz/a	POST	C				
1	MON-10		L	2	% v/v	POST	C				
2	Valor XLT	40.3	WG	3	oz/a	7 EPP	A	0	99	99	99
2	2,4-D ester	4	L	1	pt/a	7 EPP	A				
2	Roundup PowerMax	4.5	SL	28	fl oz/a	7 EPP	A				
2	MON-10		L	2	% v/v	7 EPP	A				
2	Roundup PowerMax	4.5	SL	28	fl oz/a	POST	C				
2	MON-10		L	2	% v/v	POST	C				
3	Valor XLT	40.3	WG	3	oz/a	7 EPP	A	0	99	99	99
3	2,4-D ester	4	L	1	pt/a	7 EPP	A				
3	Roundup PowerMax	4.5	SL	28	fl oz/a	7 EPP	A				
3	MON-10		L	2	% v/v	7 EPP	A				
3	Flexstar GT	2.82	L	3.5	pt/a	POST	C				
3	Surfactant		L	0.25	% v/v	POST	C				
3	MON-10		L	2	% v/v	POST	C				
4	Valor XLT	40.3	WG	3	oz/a	7 EPP	A	0	99	99	99
4	Roundup Xtend	3	SL	2	qt/a	7 EPP	A				
4	MON-10		L	2	% v/v	7 EPP	A				
4	Roundup PowerMax	4.5	SL	28	fl oz/a	POST	C				
4	MON-10		L	2	% v/v	POST	C				
5	Valor XLT	40.3	WG	3	oz/a	7 EPP	A	0	99	99	99
5	Roundup Xtend	3	SL	2	qt/a	7 EPP	A				
5	MON-10		L	2	% v/v	7 EPP	A				
5	Roundup Xtend	3	SL	2	qt/a	POST	C				
5	MON-10		L	2	% v/v	POST	C				
6	Valor XLT	40.3	WG	3	oz/a	7 EPP	A	0	99	99	99
6	Roundup Xtend	3	SL	2	qt/a	7 EPP	A				
6	MON-10		L	2	% v/v	7 EPP	A				
6	Flexstar GT	2.82	L	3.5	pt/a	POST	C				
6	Surfactant		L	0.25	% v/v	POST	C				
6	MON-10		L	2	% v/v	POST	C				
7	Valor XLT	40.3	WG	3	oz/a	1 EPP	B	0	99	99	99
7	Roundup Xtend	3	SL	2	qt/a	1 EPP	B				
7	MON-10		L	2	% v/v	1 EPP	B				
7	Roundup Xtend	3	SL	2	qt/a	POST	C				
7	Warrant	3	L	3	pt/a	POST	C				
7	MON-10		L	2	% v/v	POST	C				
8	Valor XLT	40.3	WG	3	oz/a	1 EPP	B	0	99	99	99
8	Roundup Xtend	3	SL	2	qt/a	1 EPP	B				
8	MON-10		L	2	% v/v	1 EPP	B				
8	Roundup Xtend	3	SL	2	qt/a	POST	C				
8	Cobra	2	L	8	fl oz/a	POST	C				
8	Warrant	3	L	3	pt/a	POST	C				
8	MON-10		L	2	% v/v	POST	C				

MSU Weed Science Research Program

Evaluation of Roundup Xtend systems in no-till soybean - "Regulated"

Trial ID: NTS02-14
 Conducted: Campus T-18

Study Dir.: Sprague and Powell
 Investigator: Christy Sprague

Weed Code		ANGR	CHEAL	AMBEL
Crop Code		GLXMA		
Rating Data Type		injury	control	control
Rating Unit		percent	percent	percent
Rating Date		Jul/31/2014	Jul/31/2014	Jul/31/2014
Trt-Eval Interval		34 DA-C	34 DA-C	34 DA-C
# Subsamples, Dec.				

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	0	99	0	99
9	Untreated							0	0	0	0
10	Roundup Xtend	3	SL	2	qt/a	7 EPP	A	0	99	99	99
10	MON-10		L	2	% v/v	7 EPP	A				
10	Roundup PowerMax	4.5	SL	28	fl oz/a	POST	C				
10	MON-10		L	2	% v/v	POST	C				

LSD (P=.05)	0.0	0.0	0.0	0.0
CV	0.0	0.0	0.0	0.0

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