

MSU Weed Science Research Program

Commercial herbicide program comparisons in no-till soybean

Trial ID: NTS01-12 Study Dir.: Sprague, Powell
 Conducted: T-18 Campus Investigator: Christy Sprague

Date Planted: May/18/2012 **Row Spacing:** 7.5 IN
Variety: Pioneer 92Y51 **No. of Reps:** 6
Population: 200,000 seeds/acre **% OM:** 3.4
Soil Type: Loam **pH:** 6.6
Plot Size: 10 X 35 FT **Design:** RANDOMIZED COMPLETE BLOCK

Tillage: No-tilled into standing corn stubble
Fertilizer: None

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 ARTEMISIFOLIA L.
4.	STEME	CHICKWEED, COMMON	STELLARIA MEDIA (L.)
Crop	Code	Common Name	
1.	GLXMA	SOYBEAN	

Application Description

	A	B
Application Timing:	7 EPP	POST
Date Treated:	Apr/26/2012	Jun/20/2012
Time Treated:	4:00 PM	8:45 AM
% Cloud Cover:	90	0
Air Temp., Unit:	52 F	80 F
% Relative Humidity:	50	55
Wind Speed/Unit/Dir:	9 mph NW	5 mph SE
Soil Temp., Unit:	52 F	75 F
Soil/Leaf Surface M:	3 -	5 5
Soil Moist (1=w 5=d):	3	4

Crop Stage at Each Application

	A	B
Crop Name:	GLXMA	GLXMA
Height (In.):	-	6"
Stage (L):	-	V2-V3

Weed Stage at Each Application

	A	B
Weed 1 Name:	ANGR	ANGR
Height (In.):	0.25"	5"
Stage (L):	2	6
Weed 2 Name:	CHEAL	CHEAL
Height (In.):	2"	3"
Stage (L):	13	8
Weed 3 Name:	AMBEL	AMBEL
Height (In.):	0.75"	3"
Stage (L):	5	8
Weed 4 Name:	STEME	STEME
Height (In.):	25" dia	-
Stage (L):	flowering	-

Weed Density (plants/sq. ft.)

	1
Date:	Jul/09/2012
Weed Name:	STEME
Density:	<1
Date:	Jul/09/2012
Weed Name:	ERIC A
Density:	1
Date:	Jul/09/2012
Weed Name:	ANGR
Density:	6
Date:	Jul/09/2012
Weed Name:	CHEAL
Density:	11
Date:	Jul/09/2012
Weed Name:	AMBEL
Density:	1

Application Equipment

Appl	Sprayer Type	Speed MPH	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	GPA	Carrier	PSI
A	Cub	3.8	AirMix	11003	24"	20"	100"	19	Water	28
B	Cub	3.8	AIXR	11003	25"	20"	100"	19	Water	28

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Trial ID: NTS01-12 Study Dir.: Sprague, Powell
 Conducted: T-18 Campus Investigator: Christy Sprague

Weed Code	STEME	ERICA	CHEAL	AMBEL
Crop Code				
Rating Data Type	control	control	control	control
Rating Unit	percent	percent	percent	percent
Rating Date	May/18/2012	May/18/2012	May/18/2012	May/18/2012
Trt-Eval Interval	22 DA-A	22 DA-A	22 DA-A	22 DA-A
ARM Action Codes				
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code				
1	Roundup PowerMax	4.5	SL	22	fl oz/a	7	EPP A	99	99	99	98
	2,4-D Ester	4	L	1	pt/a	7	EPP A				
	AMS		WG	17	lb/100 gal	7	EPP A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
	AMS		WG	17	lb/100 gal	POST	B				
2	Valor XLT	40.3	WG	3	oz/a	7	EPP A	99	99	99	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	7	EPP A				
	AMS		WG	17	lb/100 gal	7	EPP A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
	AMS		WG	17	lb/100 gal	POST	B				
3	Valor	51	WG	2	oz/a	7	EPP A	99	99	98	99
	Roundup PowerMax	4.5	SL	16	fl oz/a	7	EPP A				
	AMS		WG	17	lb/100 gal	7	EPP A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
	Warrant	3	L	2	pt/a	POST	B				
	AMS		WG	17	lb/100 gal	POST	B				
4	Envive	41.3	WG	2.5	oz/a	7	EPP A	72	99	99	99
	2,4-D Ester	4	L	1	pt/a	7	EPP A				
	Crop oil concentrate		L	1	% v/v	7	EPP A				
	Abundit Extra	3	SL	1	qt/a	POST	B				
	AMS		WG	17	lb/100 gal	POST	B				
5	Untreated							0	0	0	0
6	Linex	4	L	1.5	pt/a	7	EPP A	99	99	99	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	7	EPP A				
	2,4-D Ester	4	L	1	pt/a	7	EPP A				
	AMS		WG	17	lb/100 gal	7	EPP A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
	AMS		WG	17	lb/100 gal	POST	B				
7	Vida	0.2	L	1	fl oz/a	7	EPP A	99	99	99	98
	Roundup PowerMax	4.5	SL	22	fl oz/a	7	EPP A				
	Crop oil concentrate		L	1	% v/v	7	EPP A				
	AMS		WG	17	lb/100 gal	7	EPP A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
	AMS		WG	17	lb/100 gal	POST	B				
8	Zidua	85	WG	2.5	oz/a	7	EPP A	99	99	99	99
	Sharpen	2.85	L	1	fl oz/a	7	EPP A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	7	EPP A				
	MSO		L	1	% v/v	7	EPP A				
	AMS		WG	8.5	lb/100 gal	7	EPP A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
	AMS		WG	8.5	lb/100 gal	POST	B				
9	OpTill	68	WG	2	oz/a	7	EPP A	99	99	99	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	7	EPP A				
	MSO		L	1	% v/v	7	EPP A				
	AMS		WG	8.5	lb/100 gal	7	EPP A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
	AMS		WG	8.5	lb/100 gal	POST	B				

MSU Weed Science Research Program

Weed Code						STEME	ERICA	CHEAL	AMBEL		
Crop Code											
Rating Data Type						control	control	control	control		
Rating Unit						percent	percent	percent	percent		
Rating Date						May/18/2012	May/18/2012	May/18/2012	May/18/2012		
Trt-Eval Interval						22 DA-A	22 DA-A	22 DA-A	22 DA-A		
ARM Action Codes											
# Subsamples, Dec.						0	0	0	0		
Trt No.	Treatment	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code				
10	OpTill Pro - OpTill	68	WG	2	oz/a	7 EPP	A	99	99	99	99
	OpTill Pro - Outlook	6	L	10	fl oz/a	7 EPP	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A				
	MSO		L	1	% v/v	7 EPP	A				
	AMS		WG	8.5	lb/100 gal	7 EPP	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
	AMS		WG	8.5	lb/100 gal	POST	B				
11	Boundary	6.5	L	1.75	pt/a	7 EPP	A	99	99	99	99
	Gramoxone Inteon	2	L	2.5	pt/a	7 EPP	A				
	2,4-D Ester	4	L	1	pt/a	7 EPP	A				
	Crop oil concentrate		L	1	% v/v	7 EPP	A				
	Flexstar GT 3.5	2.82	L	3.5	pt/a	POST	B				
	NIS		L	0.25	% v/v	POST	B				
	AMS		WG	8.5	lb/100 gal	POST	B				
12	Prefix	5.29	L	2	pt/a	7 EPP	A	99	99	99	99
	Gramoxone Inteon	2	L	3	pt/a	7 EPP	A				
	2,4-D Ester	4	L	1	pt/a	7 EPP	A				
	Crop oil concentrate		L	1	% v/v	7 EPP	A				
	Touchdown	4.17	SL	24	fl oz/a	POST	B				
	AMS		WG	8.5	lb/100 gal	POST	B				
13	Authority MTZ	45	WG	14	oz/a	7 EPP	A	98	99	99	99
	Dual II Magnum	7.64	L	1	pt/a	7 EPP	A				
	Gramoxone Inteon	2	L	2	pt/a	7 EPP	A				
	2,4-D Ester	4	L	1	pt/a	7 EPP	A				
	Crop oil concentrate		L	1	% v/v	7 EPP	A				
	AMS		WG	2.5	lb/a	7 EPP	A				
	Cadet	0.91	L	0.6	fl oz/a	POST	B				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
	AMS		WG	2.5	lb/a	POST	B				
14	Authority First	70	WG	6.45	oz/a	7 EPP	A	99	99	99	99
	Dual II Magnum	7.64	L	1	pt/a	7 EPP	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A				
	2,4-D Ester	4	L	1	pt/a	7 EPP	A				
	Crop oil concentrate		L	1	% v/v	7 EPP	A				
	AMS		WG	2.5	lb/a	7 EPP	A				
	Cadet	0.91	L	0.6	fl oz/a	POST	B				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
	AMS		WG	2.5	lb/a	POST	B				
15	Authority XL	70	WG	3.2	oz/a	7 EPP	A	98	99	99	99
	Sencor	75	WG	5	oz/a	7 EPP	A				
	Gramoxone Inteon	2	L	2	pt/a	7 EPP	A				
	2,4-D Ester	4	L	1	pt/a	7 EPP	A				
	Crop oil concentrate		L	1	% v/v	7 EPP	A				
	AMS		WG	2.5	lb/a	7 EPP	A				
	Cadet	0.91	L	0.6	fl oz/a	POST	B				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
	AMS		WG	2.5	lb/a	POST	B				
16	Fierce	76	WG	3.75	oz/a	7 EPP	A	99	99	99	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A				
	AMS		WG	17	lb/100 gal	7 EPP	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B				
	AMS		WG	17	lb/100 gal	POST	B				
LSD (P=.05)						1.8	0.0	0.5	0.7		
CV						1.71	0.0	0.44	0.64		

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

MSU Weed Science Research Program

Weed Code								ANGR	CHEAL	AMBEL	ERICA
Crop Code							GLXMA				
Rating Data Type							injury	control	control	control	control
Rating Unit							percent	percent	percent	percent	percent
Rating Date							Jun/18/2012	Jun/18/2012	Jun/18/2012	Jun/18/2012	Jun/18/2012
Trt-Eval Interval							-2 DA-B	-2 DA-B	-2 DA-B	-2 DA-B	-2 DA-B
ARM Action Codes											
# Subsamples, Dec.							0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A	0	53	93	97	99
	2,4-D Ester	4	L	1	pt/a	7 EPP A					
	AMS		WG	17	lb/100 gal	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
	AMS		WG	17	lb/100 gal	POST B					
2	Valor XLT	40.3	WG	3	oz/a	7 EPP A	0	92	99	98	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A					
	AMS		WG	17	lb/100 gal	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
	AMS		WG	17	lb/100 gal	POST B					
3	Valor	51	WG	2	oz/a	7 EPP A	0	70	89	98	99
	Roundup PowerMax	4.5	SL	16	fl oz/a	7 EPP A					
	AMS		WG	17	lb/100 gal	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
	Warrant	3	L	2	pt/a	POST B					
	AMS		WG	17	lb/100 gal	POST B					
4	Envive	41.3	WG	2.5	oz/a	7 EPP A	0	86	99	93	96
	2,4-D Ester	4	L	1	pt/a	7 EPP A					
	Crop oil concentrate		L	1	% v/v	7 EPP A					
	Abundit Extra	3	SL	1	qt/a	POST B					
	AMS		WG	17	lb/100 gal	POST B					
5	Untreated						0	0	0	0	0
6	Linex	4	L	1.5	pt/a	7 EPP A	0	31	91	91	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A					
	2,4-D Ester	4	L	1	pt/a	7 EPP A					
	AMS		WG	17	lb/100 gal	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
	AMS		WG	17	lb/100 gal	POST B					
7	Vida	0.2	L	1	fl oz/a	7 EPP A	0	22	87	85	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A					
	Crop oil concentrate		L	1	% v/v	7 EPP A					
	AMS		WG	17	lb/100 gal	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
	AMS		WG	17	lb/100 gal	POST B					
8	Zidua	85	WG	2.5	oz/a	7 EPP A	3	95	96	95	99
	Sharpen	2.85	L	1	fl oz/a	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A					
	MSO		L	1	% v/v	7 EPP A					
	AMS		WG	8.5	lb/100 gal	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
	AMS		WG	8.5	lb/100 gal	POST B					
9	OpTill	68	WG	2	oz/a	7 EPP A	2	83	97	98	98
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A					
	MSO		L	1	% v/v	7 EPP A					
	AMS		WG	8.5	lb/100 gal	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
	AMS		WG	8.5	lb/100 gal	POST B					
10	OpTill Pro - OpTill	68	WG	2	oz/a	7 EPP A	2	87	96	89	99
	OpTill Pro - Outlook	6	L	10	fl oz/a	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A					
	MSO		L	1	% v/v	7 EPP A					
	AMS		WG	8.5	lb/100 gal	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
	AMS		WG	8.5	lb/100 gal	POST B					

MSU Weed Science Research Program

Weed Code							ANGR	CHEAL	AMBEL	ERICA
Crop Code							GLXMA			
Rating Data Type							injury	control	control	control
Rating Unit							percent	percent	percent	percent
Rating Date							Jun/18/2012	Jun/18/2012	Jun/18/2012	Jun/18/2012
Trt-Eval Interval							-2 DA-B	-2 DA-B	-2 DA-B	-2 DA-B
ARM Action Codes										
# Subsamples, Dec.							0	0	0	0
Trt Treatment	Form	Form	Rate	Grow	Appl					
No. Name	Conc	Type	Unit	Stg	Code					
11 Boundary	6.5	L	1.75 pt/a	7	EPP A	0	89	87	96	99
Gramoxone Inteon	2	L	2.5 pt/a	7	EPP A					
2,4-D Ester	4	L	1 pt/a	7	EPP A					
Crop oil concentrate		L	1 % v/v	7	EPP A					
Flexstar GT 3.5	2.82	L	3.5 pt/a	POST	B					
NIS		L	0.25 % v/v	POST	B					
AMS		WG	8.5 lb/100 gal	POST	B					
12 Prefix	5.29	L	2 pt/a	7	EPP A	2	75	90	94	99
Gramoxone Inteon	2	L	3 pt/a	7	EPP A					
2,4-D Ester	4	L	1 pt/a	7	EPP A					
Crop oil concentrate		L	1 % v/v	7	EPP A					
Touchdown	4.17	SL	24 fl oz/a	POST	B					
AMS		WG	8.5 lb/100 gal	POST	B					
13 Authority MTZ	45	WG	14 oz/a	7	EPP A	2	80	99	97	99
Dual II Magnum	7.64	L	1 pt/a	7	EPP A					
Gramoxone Inteon	2	L	2 pt/a	7	EPP A					
2,4-D Ester	4	L	1 pt/a	7	EPP A					
Crop oil concentrate		L	1 % v/v	7	EPP A					
AMS		WG	2.5 lb/a	7	EPP A					
Cadet	0.91	L	0.6 fl oz/a	POST	B					
Roundup PowerMax	4.5	SL	22 fl oz/a	POST	B					
AMS		WG	2.5 lb/a	POST	B					
14 Authority First	70	WG	6.45 oz/a	7	EPP A	1	95	99	99	99
Dual II Magnum	7.64	L	1 pt/a	7	EPP A					
Roundup PowerMax	4.5	SL	22 fl oz/a	7	EPP A					
2,4-D Ester	4	L	1 pt/a	7	EPP A					
Crop oil concentrate		L	1 % v/v	7	EPP A					
AMS		WG	2.5 lb/a	7	EPP A					
Cadet	0.91	L	0.6 fl oz/a	POST	B					
Roundup PowerMax	4.5	SL	22 fl oz/a	POST	B					
AMS		WG	2.5 lb/a	POST	B					
15 Authority XL	70	WG	3.2 oz/a	7	EPP A	1	92	99	99	99
Sencor	75	WG	5 oz/a	7	EPP A					
Gramoxone Inteon	2	L	2 pt/a	7	EPP A					
2,4-D Ester	4	L	1 pt/a	7	EPP A					
Crop oil concentrate		L	1 % v/v	7	EPP A					
AMS		WG	2.5 lb/a	7	EPP A					
Cadet	0.91	L	0.6 fl oz/a	POST	B					
Roundup PowerMax	4.5	SL	22 fl oz/a	POST	B					
AMS		WG	2.5 lb/a	POST	B					
16 Fierce	76	WG	3.75 oz/a	7	EPP A	0	94	96	99	99
Roundup PowerMax	4.5	SL	22 fl oz/a	7	EPP A					
AMS		WG	17 lb/100 gal	7	EPP A					
Roundup PowerMax	4.5	SL	22 fl oz/a	POST	B					
AMS		WG	17 lb/100 gal	POST	B					
LSD (P=.05)							2.6	22.0	6.3	7.2
CV							303.54	26.67	6.13	6.98

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

MSU Weed Science Research Program

Weed Code								ANGR	CHEAL	AMBEL	ERICA
Crop Code							GLXMA				
Rating Data Type							injury	control	control	control	control
Rating Unit							percent	percent	percent	percent	percent
Rating Date							Jun/27/2012	Jun/27/2012	Jun/27/2012	Jun/27/2012	Jun/27/2012
Trt-Eval Interval							7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B
ARM Action Codes											
# Subsamples, Dec.							0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A	7	99	99	98	99
	2,4-D Ester	4	L	1	pt/a	7 EPP A					
	AMS		WG	17	lb/100 gal	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
	AMS		WG	17	lb/100 gal	POST B					
2	Valor XLT	40.3	WG	3	oz/a	7 EPP A	0	99	99	99	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A					
	AMS		WG	17	lb/100 gal	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
	AMS		WG	17	lb/100 gal	POST B					
3	Valor	51	WG	2	oz/a	7 EPP A	0	99	99	98	99
	Roundup PowerMax	4.5	SL	16	fl oz/a	7 EPP A					
	AMS		WG	17	lb/100 gal	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
	Warrant	3	L	2	pt/a	POST B					
	AMS		WG	17	lb/100 gal	POST B					
4	Envive	41.3	WG	2.5	oz/a	7 EPP A	0	99	99	98	98
	2,4-D Ester	4	L	1	pt/a	7 EPP A					
	Crop oil concentrate		L	1	% v/v	7 EPP A					
	Abundit Extra	3	SL	1	qt/a	POST B					
	AMS		WG	17	lb/100 gal	POST B					
5	Untreated						0	0	0	0	0
6	Linex	4	L	1.5	pt/a	7 EPP A	0	99	99	96	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A					
	2,4-D Ester	4	L	1	pt/a	7 EPP A					
	AMS		WG	17	lb/100 gal	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
	AMS		WG	17	lb/100 gal	POST B					
7	Vida	0.2	L	1	fl oz/a	7 EPP A	0	99	99	94	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A					
	Crop oil concentrate		L	1	% v/v	7 EPP A					
	AMS		WG	17	lb/100 gal	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
	AMS		WG	17	lb/100 gal	POST B					
8	Zidua	85	WG	2.5	oz/a	7 EPP A	0	99	99	99	99
	Sharpen	2.85	L	1	fl oz/a	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A					
	MSO		L	1	% v/v	7 EPP A					
	AMS		WG	8.5	lb/100 gal	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
	AMS		WG	8.5	lb/100 gal	POST B					
9	OpTill	68	WG	2	oz/a	7 EPP A	0	99	99	97	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A					
	MSO		L	1	% v/v	7 EPP A					
	AMS		WG	8.5	lb/100 gal	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
	AMS		WG	8.5	lb/100 gal	POST B					
10	OpTill Pro - OpTill	68	WG	2	oz/a	7 EPP A	0	99	99	96	99
	OpTill Pro - Outlook	6	L	10	fl oz/a	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A					
	MSO		L	1	% v/v	7 EPP A					
	AMS		WG	8.5	lb/100 gal	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
	AMS		WG	8.5	lb/100 gal	POST B					

MSU Weed Science Research Program

Weed Code							ANGR	CHEAL	AMBEL	ERICA
Crop Code							GLXMA			
Rating Data Type							injury	control	control	control
Rating Unit							percent	percent	percent	percent
Rating Date							Jun/27/2012	Jun/27/2012	Jun/27/2012	Jun/27/2012
Trt-Eval Interval							7 DA-B	7 DA-B	7 DA-B	7 DA-B
ARM Action Codes										
# Subsamples, Dec.							0	0	0	0
Trt Treatment	Form	Form	Rate	Grow	Appl					
No. Name	Conc	Type	Unit	Stg	Code					
11 Boundary	6.5	L	1.75 pt/a	7	EPP A	13	99	99	99	99
Gramoxone Inteon	2	L	2.5 pt/a	7	EPP A					
2,4-D Ester	4	L	1 pt/a	7	EPP A					
Crop oil concentrate		L	1 % v/v	7	EPP A					
Flexstar GT 3.5	2.82	L	3.5 pt/a	POST	B					
NIS		L	0.25 % v/v	POST	B					
AMS		WG	8.5 lb/100 gal	POST	B					
12 Prefix	5.29	L	2 pt/a	7	EPP A	0	99	99	99	99
Gramoxone Inteon	2	L	3 pt/a	7	EPP A					
2,4-D Ester	4	L	1 pt/a	7	EPP A					
Crop oil concentrate		L	1 % v/v	7	EPP A					
Touchdown	4.17	SL	24 fl oz/a	POST	B					
AMS		WG	8.5 lb/100 gal	POST	B					
13 Authority MTZ	45	WG	14 oz/a	7	EPP A	6	99	99	95	99
Dual II Magnum	7.64	L	1 pt/a	7	EPP A					
Gramoxone Inteon	2	L	2 pt/a	7	EPP A					
2,4-D Ester	4	L	1 pt/a	7	EPP A					
Crop oil concentrate		L	1 % v/v	7	EPP A					
AMS		WG	2.5 lb/a	7	EPP A					
Cadet	0.91	L	0.6 fl oz/a	POST	B					
Roundup PowerMax	4.5	SL	22 fl oz/a	POST	B					
AMS		WG	2.5 lb/a	POST	B					
14 Authority First	70	WG	6.45 oz/a	7	EPP A	7	99	99	99	99
Dual II Magnum	7.64	L	1 pt/a	7	EPP A					
Roundup PowerMax	4.5	SL	22 fl oz/a	7	EPP A					
2,4-D Ester	4	L	1 pt/a	7	EPP A					
Crop oil concentrate		L	1 % v/v	7	EPP A					
AMS		WG	2.5 lb/a	7	EPP A					
Cadet	0.91	L	0.6 fl oz/a	POST	B					
Roundup PowerMax	4.5	SL	22 fl oz/a	POST	B					
AMS		WG	2.5 lb/a	POST	B					
15 Authority XL	70	WG	3.2 oz/a	7	EPP A	7	99	99	99	99
Sencor	75	WG	5 oz/a	7	EPP A					
Gramoxone Inteon	2	L	2 pt/a	7	EPP A					
2,4-D Ester	4	L	1 pt/a	7	EPP A					
Crop oil concentrate		L	1 % v/v	7	EPP A					
AMS		WG	2.5 lb/a	7	EPP A					
Cadet	0.91	L	0.6 fl oz/a	POST	B					
Roundup PowerMax	4.5	SL	22 fl oz/a	POST	B					
AMS		WG	2.5 lb/a	POST	B					
16 Fierce	76	WG	3.75 oz/a	7	EPP A	0	99	99	99	99
Roundup PowerMax	4.5	SL	22 fl oz/a	7	EPP A					
AMS		WG	17 lb/100 gal	7	EPP A					
Roundup PowerMax	4.5	SL	22 fl oz/a	POST	B					
AMS		WG	17 lb/100 gal	POST	B					
LSD (P=.05)						4.8	0.0	0.0	4.9	1.1
CV						166.02	0.0	0.0	4.66	1.0

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

MSU Weed Science Research Program

Weed Code								ANGR	CHEAL	AMBEL	ERICA
Crop Code							GLXMA				
Rating Data Type							injury	control	control	control	control
Rating Unit							percent	percent	percent	percent	percent
Rating Date							Jul/11/2012	Jul/11/2012	Jul/11/2012	Jul/11/2012	Jul/11/2012
Trt-Eval Interval							21 DA-B	21 DA-B	21 DA-B	21 DA-B	21 DA-B
ARM Action Codes											
# Subsamples, Dec.							0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A	0	98	99	99	99
	2,4-D Ester	4	L	1	pt/a	7 EPP A					
	AMS		WG	17	lb/100 gal	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
	AMS		WG	17	lb/100 gal	POST B					
2	Valor XLT	40.3	WG	3	oz/a	7 EPP A	0	99	99	99	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A					
	AMS		WG	17	lb/100 gal	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
	AMS		WG	17	lb/100 gal	POST B					
3	Valor	51	WG	2	oz/a	7 EPP A	0	99	99	98	99
	Roundup PowerMax	4.5	SL	16	fl oz/a	7 EPP A					
	AMS		WG	17	lb/100 gal	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
	Warrant	3	L	2	pt/a	POST B					
	AMS		WG	17	lb/100 gal	POST B					
4	Envive	41.3	WG	2.5	oz/a	7 EPP A	0	99	99	99	99
	2,4-D Ester	4	L	1	pt/a	7 EPP A					
	Crop oil concentrate		L	1	% v/v	7 EPP A					
	Abundit Extra	3	SL	1	qt/a	POST B					
	AMS		WG	17	lb/100 gal	POST B					
5	Untreated						0	0	0	0	0
6	Linex	4	L	1.5	pt/a	7 EPP A	0	99	99	99	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A					
	2,4-D Ester	4	L	1	pt/a	7 EPP A					
	AMS		WG	17	lb/100 gal	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
	AMS		WG	17	lb/100 gal	POST B					
7	Vida	0.2	L	1	fl oz/a	7 EPP A	0	98	99	98	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A					
	Crop oil concentrate		L	1	% v/v	7 EPP A					
	AMS		WG	17	lb/100 gal	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
	AMS		WG	17	lb/100 gal	POST B					
8	Zidua	85	WG	2.5	oz/a	7 EPP A	0	99	99	99	99
	Sharpen	2.85	L	1	fl oz/a	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A					
	MSO		L	1	% v/v	7 EPP A					
	AMS		WG	8.5	lb/100 gal	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
	AMS		WG	8.5	lb/100 gal	POST B					
9	OpTill	68	WG	2	oz/a	7 EPP A	0	99	99	96	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A					
	MSO		L	1	% v/v	7 EPP A					
	AMS		WG	8.5	lb/100 gal	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
	AMS		WG	8.5	lb/100 gal	POST B					
10	OpTill Pro - OpTill	68	WG	2	oz/a	7 EPP A	0	99	99	99	99
	OpTill Pro - Outlook	6	L	10	fl oz/a	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A					
	MSO		L	1	% v/v	7 EPP A					
	AMS		WG	8.5	lb/100 gal	7 EPP A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B					
	AMS		WG	8.5	lb/100 gal	POST B					

MSU Weed Science Research Program

Weed Code							ANGR	CHEAL	AMBEL	ERICA		
Crop Code							GLXMA					
Rating Data Type							injury	control	control	control		
Rating Unit							percent	percent	percent	percent		
Rating Date							Jul/11/2012	Jul/11/2012	Jul/11/2012	Jul/11/2012		
Trt-Eval Interval							21 DA-B	21 DA-B	21 DA-B	21 DA-B		
ARM Action Codes												
# Subsamples, Dec.							0	0	0	0		
Trt No.	Treatment	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
11	Boundary	6.5	L	1.75	pt/a	7 EPP A	9	99	99	99	99	
	Gramoxone Inteon	2	L	2.5	pt/a	7 EPP A						
	2,4-D Ester	4	L	1	pt/a	7 EPP A						
	Crop oil concentrate		L	1	% v/v	7 EPP A						
	Flexstar GT 3.5	2.82	L	3.5	pt/a	POST B						
	NIS		L	0.25	% v/v	POST B						
	AMS		WG	8.5	lb/100 gal	POST B						
12	Prefix	5.29	L	2	pt/a	7 EPP A	0	99	99	99	99	
	Gramoxone Inteon	2	L	3	pt/a	7 EPP A						
	2,4-D Ester	4	L	1	pt/a	7 EPP A						
	Crop oil concentrate		L	1	% v/v	7 EPP A						
	Touchdown	4.17	SL	24	fl oz/a	POST B						
	AMS		WG	8.5	lb/100 gal	POST B						
13	Authority MTZ	45	WG	14	oz/a	7 EPP A	6	99	99	95	99	
	Dual II Magnum	7.64	L	1	pt/a	7 EPP A						
	Gramoxone Inteon	2	L	2	pt/a	7 EPP A						
	2,4-D Ester	4	L	1	pt/a	7 EPP A						
	Crop oil concentrate		L	1	% v/v	7 EPP A						
	AMS		WG	2.5	lb/a	7 EPP A						
	Cadet	0.91	L	0.6	fl oz/a	POST B						
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B						
	AMS		WG	2.5	lb/a	POST B						
14	Authority First	70	WG	6.45	oz/a	7 EPP A	5	99	99	99	99	
	Dual II Magnum	7.64	L	1	pt/a	7 EPP A						
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A						
	2,4-D Ester	4	L	1	pt/a	7 EPP A						
	Crop oil concentrate		L	1	% v/v	7 EPP A						
	AMS		WG	2.5	lb/a	7 EPP A						
	Cadet	0.91	L	0.6	fl oz/a	POST B						
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B						
	AMS		WG	2.5	lb/a	POST B						
15	Authority XL	70	WG	3.2	oz/a	7 EPP A	4	99	99	99	99	
	Sencor	75	WG	5	oz/a	7 EPP A						
	Gramoxone Inteon	2	L	2	pt/a	7 EPP A						
	2,4-D Ester	4	L	1	pt/a	7 EPP A						
	Crop oil concentrate		L	1	% v/v	7 EPP A						
	AMS		WG	2.5	lb/a	7 EPP A						
	Cadet	0.91	L	0.6	fl oz/a	POST B						
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B						
	AMS		WG	2.5	lb/a	POST B						
16	Fierce	76	WG	3.75	oz/a	7 EPP A	0	99	99	99	99	
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A						
	AMS		WG	17	lb/100 gal	7 EPP A						
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B						
	AMS		WG	17	lb/100 gal	POST B						
LSD (P=.05)							1.2	0.8	0.0	2.2	0.0	
CV							69.78	0.74	0.0	2.05	0.0	

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

MSU Weed Science Research Program

Weed Code								ANGR	CHEAL	AMBEL
Crop Code							GLXMA			
Rating Data Type							injury	control	control	control
Rating Unit							percent	percent	percent	percent
Rating Date							Aug/15/2012	Aug/15/2012	Aug/15/2012	Aug/15/2012
Trt-Eval Interval							56 DA-B	56 DA-B	56 DA-B	56 DA-B
ARM Action Codes										
# Subsamples, Dec.							0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code			
1	Roundup PowerMax 2,4-D Ester	4.5	SL	22	fl oz/a	7 EPP A	0	99	99	98
	AMS	4	L	1	pt/a	7 EPP A				
	AMS		WG	17	lb/100 gal	7 EPP A				
	Roundup PowerMax 2,4-D Ester	4.5	SL	22	fl oz/a	POST B				
	AMS		WG	17	lb/100 gal	POST B				
2	Valor XLT	40.3	WG	3	oz/a	7 EPP A	0	99	99	99
	Roundup PowerMax 2,4-D Ester	4.5	SL	22	fl oz/a	7 EPP A				
	AMS		WG	17	lb/100 gal	7 EPP A				
	Roundup PowerMax 2,4-D Ester	4.5	SL	22	fl oz/a	POST B				
	AMS		WG	17	lb/100 gal	POST B				
3	Valor	51	WG	2	oz/a	7 EPP A	0	99	99	99
	Roundup PowerMax 2,4-D Ester	4.5	SL	16	fl oz/a	7 EPP A				
	AMS		WG	17	lb/100 gal	7 EPP A				
	Roundup PowerMax 2,4-D Ester	4.5	SL	22	fl oz/a	POST B				
	Warrant	3	L	2	pt/a	POST B				
	AMS		WG	17	lb/100 gal	POST B				
4	Envive	41.3	WG	2.5	oz/a	7 EPP A	0	99	99	96
	2,4-D Ester	4	L	1	pt/a	7 EPP A				
	Crop oil concentrate		L	1	% v/v	7 EPP A				
	Abundit Extra	3	SL	1	qt/a	POST B				
	AMS		WG	17	lb/100 gal	POST B				
5	Untreated						0	0	0	0
6	Linex	4	L	1.5	pt/a	7 EPP A	0	99	99	99
	Roundup PowerMax 2,4-D Ester	4.5	SL	22	fl oz/a	7 EPP A				
	AMS	4	L	1	pt/a	7 EPP A				
	AMS		WG	17	lb/100 gal	7 EPP A				
	Roundup PowerMax 2,4-D Ester	4.5	SL	22	fl oz/a	POST B				
	AMS		WG	17	lb/100 gal	POST B				
7	Vida	0.2	L	1	fl oz/a	7 EPP A	0	99	99	99
	Roundup PowerMax 2,4-D Ester	4.5	SL	22	fl oz/a	7 EPP A				
	Crop oil concentrate		L	1	% v/v	7 EPP A				
	AMS		WG	17	lb/100 gal	7 EPP A				
	Roundup PowerMax 2,4-D Ester	4.5	SL	22	fl oz/a	POST B				
	AMS		WG	17	lb/100 gal	POST B				
8	Zidua	85	WG	2.5	oz/a	7 EPP A	0	99	98	98
	Sharpen	2.85	L	1	fl oz/a	7 EPP A				
	Roundup PowerMax 2,4-D Ester	4.5	SL	22	fl oz/a	7 EPP A				
	MSO		L	1	% v/v	7 EPP A				
	AMS		WG	8.5	lb/100 gal	7 EPP A				
	Roundup PowerMax 2,4-D Ester	4.5	SL	22	fl oz/a	POST B				
	AMS		WG	8.5	lb/100 gal	POST B				
9	OpTill	68	WG	2	oz/a	7 EPP A	0	99	99	96
	Roundup PowerMax 2,4-D Ester	4.5	SL	22	fl oz/a	7 EPP A				
	MSO		L	1	% v/v	7 EPP A				
	AMS		WG	8.5	lb/100 gal	7 EPP A				
	Roundup PowerMax 2,4-D Ester	4.5	SL	22	fl oz/a	POST B				
	AMS		WG	8.5	lb/100 gal	POST B				
10	OpTill Pro - OpTill	68	WG	2	oz/a	7 EPP A	0	99	99	99
	OpTill Pro - Outlook	6	L	10	fl oz/a	7 EPP A				
	Roundup PowerMax 2,4-D Ester	4.5	SL	22	fl oz/a	7 EPP A				
	MSO		L	1	% v/v	7 EPP A				
	AMS		WG	8.5	lb/100 gal	7 EPP A				
	Roundup PowerMax 2,4-D Ester	4.5	SL	22	fl oz/a	POST B				
	AMS		WG	8.5	lb/100 gal	POST B				

MSU Weed Science Research Program

Weed Code							ANGR	CHEAL	AMBEL	
Crop Code							GLXMA			
Rating Data Type							injury	control	control	
Rating Unit							percent	percent	percent	
Rating Date							Aug/15/2012	Aug/15/2012	Aug/15/2012	
Trt-Eval Interval							56 DA-B	56 DA-B	56 DA-B	
ARM Action Codes										
# Subsamples, Dec.							0	0	0	
11	Boundary	6.5	L	1.75	pt/a	7 EPP A	0	99	99	97
	Gramoxone Inteon	2	L	2.5	pt/a	7 EPP A				
	2,4-D Ester	4	L	1	pt/a	7 EPP A				
	Crop oil concentrate		L	1	% v/v	7 EPP A				
	Flexstar GT 3.5	2.82	L	3.5	pt/a	POST B				
	NIS		L	0.25	% v/v	POST B				
	AMS		WG	8.5	lb/100 gal	POST B				
12	Prefix	5.29	L	2	pt/a	7 EPP A	0	99	99	97
	Gramoxone Inteon	2	L	3	pt/a	7 EPP A				
	2,4-D Ester	4	L	1	pt/a	7 EPP A				
	Crop oil concentrate		L	1	% v/v	7 EPP A				
	Touchdown	4.17	SL	24	fl oz/a	POST B				
	AMS		WG	8.5	lb/100 gal	POST B				
13	Authority MTZ	45	WG	14	oz/a	7 EPP A	0	99	99	99
	Dual II Magnum	7.64	L	1	pt/a	7 EPP A				
	Gramoxone Inteon	2	L	2	pt/a	7 EPP A				
	2,4-D Ester	4	L	1	pt/a	7 EPP A				
	Crop oil concentrate		L	1	% v/v	7 EPP A				
	AMS		WG	2.5	lb/a	7 EPP A				
	Cadet	0.91	L	0.6	fl oz/a	POST B				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B				
	AMS		WG	2.5	lb/a	POST B				
14	Authority First	70	WG	6.45	oz/a	7 EPP A	0	97	95	93
	Dual II Magnum	7.64	L	1	pt/a	7 EPP A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A				
	2,4-D Ester	4	L	1	pt/a	7 EPP A				
	Crop oil concentrate		L	1	% v/v	7 EPP A				
	AMS		WG	2.5	lb/a	7 EPP A				
	Cadet	0.91	L	0.6	fl oz/a	POST B				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B				
	AMS		WG	2.5	lb/a	POST B				
15	Authority XL	70	WG	3.2	oz/a	7 EPP A	0	99	99	99
	Sencor	75	WG	5	oz/a	7 EPP A				
	Gramoxone Inteon	2	L	2	pt/a	7 EPP A				
	2,4-D Ester	4	L	1	pt/a	7 EPP A				
	Crop oil concentrate		L	1	% v/v	7 EPP A				
	AMS		WG	2.5	lb/a	7 EPP A				
	Cadet	0.91	L	0.6	fl oz/a	POST B				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B				
	AMS		WG	2.5	lb/a	POST B				
16	Fierce	76	WG	3.75	oz/a	7 EPP A	0	99	98	98
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A				
	AMS		WG	17	lb/100 gal	7 EPP A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B				
	AMS		WG	17	lb/100 gal	POST B				
LSD (P=.05)							0.0	0.8	2.4	4.4
CV							0.0	0.76	2.2	4.14

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

MSU Weed Science Research Program

Weed Code	ERICA		
Crop Code		GLXMA	GLXMA
Rating Data Type	control	moisture	yield
Rating Unit	percent	percent	bu/acre
Rating Date	Aug/15/2012	Oct/24/2012	Oct/24/2012
Trt-Eval Interval	56 DA-B	126 DA-B	at 13% M
ARM Action Codes			TY1
# Subsamples, Dec.	0	1	0

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code			
1	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A	99	15.4	54	
	2,4-D Ester	4	L	1	pt/a	7 EPP A				
	AMS		WG	17	lb/100 gal	7 EPP A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B				
	AMS		WG	17	lb/100 gal	POST B				
2	Valor XLT	40.3	WG	3	oz/a	7 EPP A	99	14.9	56	
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A				
	AMS		WG	17	lb/100 gal	7 EPP A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B				
	AMS		WG	17	lb/100 gal	POST B				
3	Valor	51	WG	2	oz/a	7 EPP A	99	15.3	55	
	Roundup PowerMax	4.5	SL	16	fl oz/a	7 EPP A				
	AMS		WG	17	lb/100 gal	7 EPP A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B				
	Warrant	3	L	2	pt/a	POST B				
	AMS		WG	17	lb/100 gal	POST B				
4	Envive	41.3	WG	2.5	oz/a	7 EPP A	99	14.6	58	
	2,4-D Ester	4	L	1	pt/a	7 EPP A				
	Crop oil concentrate		L	1	% v/v	7 EPP A				
	Abundit Extra	3	SL	1	qt/a	POST B				
	AMS		WG	17	lb/100 gal	POST B				
5	Untreated						0	11.9	8	
6	Linex	4	L	1.5	pt/a	7 EPP A	99	15.7	55	
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A				
	2,4-D Ester	4	L	1	pt/a	7 EPP A				
	AMS		WG	17	lb/100 gal	7 EPP A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B				
	AMS		WG	17	lb/100 gal	POST B				
7	Vida	0.2	L	1	fl oz/a	7 EPP A	99	15.0	57	
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A				
	Crop oil concentrate		L	1	% v/v	7 EPP A				
	AMS		WG	17	lb/100 gal	7 EPP A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B				
	AMS		WG	17	lb/100 gal	POST B				
8	Zidua	85	WG	2.5	oz/a	7 EPP A	99	15.1	60	
	Sharpen	2.85	L	1	fl oz/a	7 EPP A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A				
	MSO		L	1	% v/v	7 EPP A				
	AMS		WG	8.5	lb/100 gal	7 EPP A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B				
	AMS		WG	8.5	lb/100 gal	POST B				
9	OpTill	68	WG	2	oz/a	7 EPP A	99	15.0	58	
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A				
	MSO		L	1	% v/v	7 EPP A				
	AMS		WG	8.5	lb/100 gal	7 EPP A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B				
	AMS		WG	8.5	lb/100 gal	POST B				
10	OpTill Pro - OpTill	68	WG	2	oz/a	7 EPP A	99	15.5	57	
	OpTill Pro - Outlook	6	L	10	fl oz/a	7 EPP A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A				
	MSO		L	1	% v/v	7 EPP A				
	AMS		WG	8.5	lb/100 gal	7 EPP A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B				
	AMS		WG	8.5	lb/100 gal	POST B				

MSU Weed Science Research Program

Weed Code	ERICA		
Crop Code		GLXMA	GLXMA
Rating Data Type	control	moisture	yield
Rating Unit	percent	percent	bu/acre
Rating Date	Aug/15/2012	Oct/24/2012	Oct/24/2012
Trt-Eval Interval	56 DA-B	126 DA-B	at 13% M
ARM Action Codes			TY1
# Subsamples, Dec.	0	1	0

Trt No.	Treatment	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code			
11	Boundary	6.5	L	1.75	pt/a	7 EPP A		99	15.1	53
	Gramoxone Inteon	2	L	2.5	pt/a	7 EPP A				
	2,4-D Ester	4	L	1	pt/a	7 EPP A				
	Crop oil concentrate		L	1	% v/v	7 EPP A				
	Flexstar GT 3.5	2.82	L	3.5	pt/a	POST B				
	NIS		L	0.25	% v/v	POST B				
	AMS		WG	8.5	lb/100 gal	POST B				
12	Prefix	5.29	L	2	pt/a	7 EPP A		99	15.1	57
	Gramoxone Inteon	2	L	3	pt/a	7 EPP A				
	2,4-D Ester	4	L	1	pt/a	7 EPP A				
	Crop oil concentrate		L	1	% v/v	7 EPP A				
	Touchdown	4.17	SL	24	fl oz/a	POST B				
	AMS		WG	8.5	lb/100 gal	POST B				
13	Authority MTZ	45	WG	14	oz/a	7 EPP A		99	15.2	55
	Dual II Magnum	7.64	L	1	pt/a	7 EPP A				
	Gramoxone Inteon	2	L	2	pt/a	7 EPP A				
	2,4-D Ester	4	L	1	pt/a	7 EPP A				
	Crop oil concentrate		L	1	% v/v	7 EPP A				
	AMS		WG	2.5	lb/a	7 EPP A				
	Cadet	0.91	L	0.6	fl oz/a	POST B				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B				
	AMS		WG	2.5	lb/a	POST B				
14	Authority First	70	WG	6.45	oz/a	7 EPP A		99	15.1	57
	Dual II Magnum	7.64	L	1	pt/a	7 EPP A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A				
	2,4-D Ester	4	L	1	pt/a	7 EPP A				
	Crop oil concentrate		L	1	% v/v	7 EPP A				
	AMS		WG	2.5	lb/a	7 EPP A				
	Cadet	0.91	L	0.6	fl oz/a	POST B				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B				
	AMS		WG	2.5	lb/a	POST B				
15	Authority XL	70	WG	3.2	oz/a	7 EPP A		99	14.8	56
	Sencor	75	WG	5	oz/a	7 EPP A				
	Gramoxone Inteon	2	L	2	pt/a	7 EPP A				
	2,4-D Ester	4	L	1	pt/a	7 EPP A				
	Crop oil concentrate		L	1	% v/v	7 EPP A				
	AMS		WG	2.5	lb/a	7 EPP A				
	Cadet	0.91	L	0.6	fl oz/a	POST B				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B				
	AMS		WG	2.5	lb/a	POST B				
16	Fierce	76	WG	3.75	oz/a	7 EPP A		99	15.0	56
	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP A				
	AMS		WG	17	lb/100 gal	7 EPP A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST B				
	AMS		WG	17	lb/100 gal	POST B				
	LSD (P=.05)							0.0	1.20	5.7
	CV							0.0	6.98	9.29

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