

MSU Weed Science Research Program

Comparison of commercial herbicide programs in soybean

Trial ID: SOY11-13 Study Dir.: Sprague, Powell
 Conducted: Campus C-16 Investigator: Christy Sprague

Date Planted: May/08/2013 **Row Spacing:** 30 IN
Variety: P92Y51RR, DF9251LL **No. of Reps:** 4
Population: 155,000 seeds/A **% OM:** 3.1
Soil Type: Silt loam **pH:** 6.7
Plot Size: 10 X 30 FT **Design:** RANDOMIZED COMPLETE BLOCK

Tillage: Fall chisel, spring soil finish x2
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.	ABUTH	VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.
5.	SINAR	MUSTARD, WILD	SINAPIS ARVENSIS L.
Crop	Code	Common Name	
1.	GLXMA	SOYBEAN	

Application Description

	A	B	C	D
Application Timing:	PRE	EPOS	POST	LPOS
Date Treated:	May/08/2013	Jun/07/2013	Jun/19/2013	Jun/27/2013
Time Treated:	8:15 PM	8:30 PM	10:15 AM	10:15 AM
% Cloud Cover:	50	100	0	10
Air Temp., Unit:	68 F	53 F	65 F	83 F
% Relative Humidity:	48	54	47	62
Wind Speed/Unit/Dir:	0 mph	3 mph NE	3 mph NE	1 mph NW
Soil Temp., Unit:	70 F	60 F	60 F	73 F
Soil/Leaf Surface M:	3 -	3 5	2 4	2 4
Soil Moist (1=w 5=d):	3	5	2	2

Crop Stage at Each Application

	A	B	C	D
Crop Name:	GLXMA	GLXMA	GLXMA	GLXMA
Height (In.):	-	4"	7"	12"
Stage (L):	-	V1	V3	R1

Weed Stage at Each Application

	A	B	C	D
Weed 1 Name:	ANGR	ANGR	ANGR	ANGR
Height (In.):	-	3"	7"	3"
Stage (L):	-	2	3-4	3
Weed 2 Name:	CHEAL	CHEAL	CHEAL	CHEAL
Height (In.):	-	1.5"	3"	1"
Stage (L):	-	6	10	4
Weed 3 Name:	AMBEL	AMBEL	AMBEL	AMBEL
Height (In.):	-	2"	3"	2"
Stage (L):	-	4	8	8
Weed 4 Name:	ABUTH	ABUTH	ABUTH	ABUTH
Height (In.):	-	1"	3.5"	-
Stage (L):	-	3	3	-
Weed 5 Name:	SINAR	SINAR	SINAR	SINAR
Height (In.):	-	3"	-	-
Stage (L):	-	6	-	-

Weed Density (plants/sq. ft.)

	1	2	3	4	5
Date:	Jul/11/2013	Jul/11/2013	Jul/11/2013	Jul/11/2013	Jul/11/2013
Weed Name:	ANGR	CHEAL	AMBEL	ABUTH	SINAR
Density:	17	4	25	2	2

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom	GPA	Carrier	PSI
	Type	MPH	Type	Size	Height	Spacing	Width			
A	Cub	3.8	AI XR	11003	22"	20"	100"	19	water	30
B	Cub	3.8	AI XR	11003	22"	20"	100"	19	water	30
C	Cub	3.8	AI XR	11003	24"	20"	100"	19	water	30
D	Cub	3.8	AI XR	11003	26"	20"	100"	19	water	30

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Trial ID: SOY11-13
 Conducted: Campus C-16

Study Dir.: Sprague, Powell
 Investigator: Christy Sprague

Weed Code								ANGR	CHEAL	AMBEL	
Crop Code							GLXMA				
Rating Data Type							injury	control	control	control	
Rating Unit							percent	percent	percent	percent	
Rating Date							Jun/07/2013	Jun/07/2013	Jun/07/2013	Jun/07/2013	
Trt-Eval Interval							30 DA-A	30 DA-A	30 DA-A	30 DA-A	
# Subsamples, Dec.							0	0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code				
1	Python	80	WG	1	oz/a	PRE	A	1	66	99	58
	Durango DMA	4	SL	24	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
2	Boundary	6.5	L	1.5	pt/a	PRE	A	3	97	99	71
	Touchdown Total	4.17	L	24	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
3	Authority MTZ	75	WG	16	oz/a	PRE	A	0	97	99	81
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	2.5	lb/a	POST	C				
4	Canopy	75	WG	2.25	oz/a	PRE	A	0	40	99	63
	Abundit Extra	3	SL	32	fl oz/a	POST	C				
	AMS		WG	2	lb/a	POST	C				
5	Prefix	5.29	L	2	pt/a	PRE	A	3	99	86	96
	Touchdown Total	4.17	L	24	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
6	Untreated							0	0	0	0
7	Envive (3.5 oz/A)	41.3	WG					28	99	99	98
	Classic (Premix)	25	WG	1.28	oz/a	PRE	A				
	Valor (Premix)	51	WG	2	oz/a	PRE	A				
	Harmony SG (Premix)	50	WG	0.2	oz/a	PRE	A				
	Sencor	75	WG	4.75	oz/a	PRE	A				
	Cinch	7.64	L	1	pt/a	POST	C				
	Abundit Extra	3	SL	32	fl oz/a	POST	C				
	AMS		WG	2	lb/a	POST	C				
8	OpTill PRO (co-pack)							0	99	99	85
	OpTill	68	WG	2	oz/a	PRE	A				
	Outlook	6	L	10	fl oz/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
9	Verdict	5.57	L	5	fl oz/a	PRE	A	2	99	99	80
	Outlook	6	L	12	fl oz/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
10	Zidua	85	WG	2.5	oz/a	PRE	A	0	99	99	90
	Sharpen	2.85	L	1	fl oz/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
11	Fierce	76	WG	3	oz/a	PRE	A	30	99	99	98
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
12	Fierce	76	WG	3.75	oz/a	PRE	A	34	99	99	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
13	Sonic	70	WG	3	oz/a	PRE	A	0	40	99	69
	Durango DMA	4	SL	24	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
14	Sonic	70	WG	4.5	oz/a	PRE	A	0	81	99	80
	Durango DMA	4	SL	24	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				

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Weed Code							GLXMA	ANGR	CHEAL	AMBEL
Crop Code							injury	control	control	control
Rating Data Type							percent	percent	percent	percent
Rating Unit							Jun/07/2013	Jun/07/2013	Jun/07/2013	Jun/07/2013
Rating Date							30 DA-A	30 DA-A	30 DA-A	30 DA-A
Trt-Eval Interval							0	0	0	0
# Subsamples, Dec.										
Trt	Treatment	Form	Form	Rate	Grow	Appl				
No.	Name	Conc	Type	Rate	Unit	Stg	Code			
15	Sonic	70	WG	6	oz/a	PRE	A	0	84	99
	Durango DMA	4	SL	24	fl oz/a	POST	C			80
	AMS		WG	8.5	lb/100 gal	POST	C			
16	Gangster FR	84	WG	0.4	oz/a	PRE	A	23	99	99
	Gangster V	51	WG	2	oz/a	PRE	A			98
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C			
	AMS		WG	17	lb/100 gal	POST	C			
17	Fierce XLT (3.75 oz/A)							25	99	99
	Fierce (Premix)	76	WG	2.75	oz/a	PRE	A			
	Classic (Premix)	25	WG	1	oz/a	PRE	A			
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C			
	AMS		WG	17	lb/100 gal	POST	C			
18	Authority MTZ	75	WG	13	oz/a	PRE	A	0	99	99
	Command	3	L	24	fl oz/a	PRE	A			
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C			
	AMS		WG	2.5	lb/a	POST	C			
19	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C			
	AMS		WG	17	lb/100 gal	POST	C			
20	Boundary	6.5	L	1.5	pt/a	PRE	A	3	99	99
	Flexstar GT 3.5	2.82	L	3.5	pt/a	POST	C			75
	MSO		L	1	% v/v	POST	C			
	AMS		WG	17	lb/100 gal	POST	C			
21	Authority MTZ	75	WG	16	oz/a	PRE	A	0	99	99
	Marvel	3	L	7.25	fl oz/a	POST	C			73
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C			
	AMS		WG	2.5	lb/a	POST	C			
22	Authority Elite	7	L	25	fl oz/a	PRE	A	5	99	99
	Marvel	3	L	7.25	fl oz/a	POST	C			58
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C			
	AMS		WG	2.5	lb/a	POST	C			
23	Touchdown Total	4.17	L	24	fl oz/a	EPOS	B			
	AMS		WG	17	lb/100 gal	EPOS	B			
	Touchdown Total	4.17	L	24	fl oz/a	LPOS	D			
	AMS		WG	17	lb/100 gal	LPOS	D			
24	LibertyLink soybean							0	0	0
	Untreated									
25	LibertyLink soybean							13	99	99
	Valor XLT	40.3	WG	3	oz/a	PRE	A			98
	Liberty	2.34	L	29	fl oz/a	POST	C			
	AMS		WG	8.5	lb/100 gal	POST	C			
26	LibertyLink soybean							2	98	99
	Boundary	6.5	L	1.5	pt/a	PRE	A			70
	Liberty	2.34	L	29	fl oz/a	POST	C			
	AMS		WG	8.5	lb/100 gal	POST	C			
27	LibertyLink soybean							7	99	99
	Fierce	76	WG	2	oz/a	PRE	A			
	Metribuzin	75	WG	4	oz/a	PRE	A			
	Liberty	2.34	L	29	fl oz/a	POST	C			
	AMS		WG	8.5	lb/100 gal	POST	C			
28	LibertyLink soybean									
	Liberty	2.34	L	29	fl oz/a	EPOS	B			
	AMS		WG	8.5	lb/100 gal	EPOS	B			
	Liberty	2.34	L	29	fl oz/a	LPOS	D			
	AMS		WG	8.5	lb/100 gal	LPOS	D			
LSD (P=.05)							3.7	14.3	4.4	8.0
CV							36.46	12.1	3.41	7.43

MSU Weed Science Research Program

Weed Code								ABUTH	SINAR	GLXMA	ANGR
Crop Code								control	control	injury	control
Rating Data Type								percent	percent	percent	percent
Rating Unit								Jun/07/2013	Jun/07/2013	Jun/17/2013	Jun/17/2013
Rating Date								30 DA-A	30 DA-A	40 DA-A	40 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	Python	80	WG	1	oz/a	PRE	A	97	99	3	78
	Durango DMA	4	SL	24	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
2	Boundary	6.5	L	1.5	pt/a	PRE	A	96	99	0	98
	Touchdown Total	4.17	L	24	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
3	Authority MTZ	75	WG	16	oz/a	PRE	A	99	99	3	96
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	2.5	lb/a	POST	C				
4	Canopy	75	WG	2.25	oz/a	PRE	A	99	99	5	69
	Abundit Extra	3	SL	32	fl oz/a	POST	C				
	AMS		WG	2	lb/a	POST	C				
5	Prefix	5.29	L	2	pt/a	PRE	A	79	99	3	98
	Touchdown Total	4.17	L	24	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
6	Untreated							0	0	0	0
7	Envive (3.5 oz/A)	41.3	WG					99	99	19	99
	Classic (Premix)	25	WG	1.28	oz/a	PRE	A				
	Valor (Premix)	51	WG	2	oz/a	PRE	A				
	Harmony SG (Premix)	50	WG	0.2	oz/a	PRE	A				
	Sencor	75	WG	4.75	oz/a	PRE	A				
	Cinch	7.64	L	1	pt/a	POST	C				
	Abundit Extra	3	SL	32	fl oz/a	POST	C				
	AMS		WG	2	lb/a	POST	C				
8	OpTill PRO (co-pack)							99	99	5	99
	OpTill	68	WG	2	oz/a	PRE	A				
	Outlook	6	L	10	fl oz/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
9	Verdict	5.57	L	5	fl oz/a	PRE	A	97	99	1	96
	Outlook	6	L	12	fl oz/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
10	Zidua	85	WG	2.5	oz/a	PRE	A	98	99	0	99
	Sharpen	2.85	L	1	fl oz/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
11	Fierce	76	WG	3	oz/a	PRE	A	99	99	13	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
12	Fierce	76	WG	3.75	oz/a	PRE	A	99	99	11	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
13	Sonic	70	WG	3	oz/a	PRE	A	99	99	0	60
	Durango DMA	4	SL	24	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
14	Sonic	70	WG	4.5	oz/a	PRE	A	99	98	1	86
	Durango DMA	4	SL	24	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
15	Sonic	70	WG	6	oz/a	PRE	A	99	98	1	89
	Durango DMA	4	SL	24	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				

MSU Weed Science Research Program

Weed Code							ABUTH	SINAR	GLXMA	ANGR	
Crop Code											
Rating Data Type							control	control	injury	control	
Rating Unit							percent	percent	percent	percent	
Rating Date							Jun/07/2013	Jun/07/2013	Jun/17/2013	Jun/17/2013	
Trt-Eval Interval							30 DA-A	30 DA-A	40 DA-A	40 DA-A	
# Subsamples, Dec.							0	0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Grow Stg	Appl Code				
16	Gangster FR	84	WG	0.4	oz/a	PRE	A	99	99	13	96
	Gangster V	51	WG	2	oz/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
17	Fierce XLT (3.75 oz/A)							99	99	13	99
	Fierce (Premix)	76	WG	2.75	oz/a	PRE	A				
	Classic (Premix)	25	WG	1	oz/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
18	Authority MTZ	75	WG	13	oz/a	PRE	A	99	99	0	99
	Command	3	L	24	fl oz/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	2.5	lb/a	POST	C				
19	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C			0	0
	AMS		WG	17	lb/100 gal	POST	C				
20	Boundary	6.5	L	1.5	pt/a	PRE	A	94	92	2	99
	Flexstar GT 3.5	2.82	L	3.5	pt/a	POST	C				
	MSO		L	1	% v/v	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
21	Authority MTZ	75	WG	16	oz/a	PRE	A	99	91	0	95
	Marvel	3	L	7.25	fl oz/a	POST	C				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	2.5	lb/a	POST	C				
22	Authority Elite	7	L	25	fl oz/a	PRE	A	99	69	3	99
	Marvel	3	L	7.25	fl oz/a	POST	C				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	2.5	lb/a	POST	C				
23	Touchdown Total	4.17	L	24	fl oz/a	EPOS	B			13	99
	AMS		WG	17	lb/100 gal	EPOS	B				
	Touchdown Total	4.17	L	24	fl oz/a	LPOS	D				
	AMS		WG	17	lb/100 gal	LPOS	D				
24	LibertyLink soybean Untreated							0	0	0	0
25	LibertyLink soybean Valor XLT	40.3	WG	3	oz/a	PRE	A	99	99	14	99
	Liberty	2.34	L	29	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
26	LibertyLink soybean Boundary	6.5	L	1.5	pt/a	PRE	A	99	97	0	99
	Liberty	2.34	L	29	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
27	LibertyLink soybean Fierce	76	WG	2	oz/a	PRE	A	99	99	3	99
	Metribuzin	75	WG	4	oz/a	PRE	A				
	Liberty	2.34	L	29	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
28	LibertyLink soybean Liberty	2.34	L	29	fl oz/a	EPOS	B			10	91
	AMS		WG	8.5	lb/100 gal	EPOS	B				
	Liberty	2.34	L	29	fl oz/a	LPOS	D				
	AMS		WG	8.5	lb/100 gal	LPOS	D				
LSD (P=.05)								3.9	5.3	4.7	10.4
CV								3.11	4.21	69.67	8.86

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

MSU Weed Science Research Program

Weed Code	CHEAL	AMBEL	ABUTH	GLXMA							
Crop Code											
Rating Data Type	control	control	control	injury							
Rating Unit	percent	percent	percent	percent							
Rating Date	Jun/17/2013	Jun/17/2013	Jun/17/2013	Jun/26/2013							
Trt-Eval Interval	40 DA-A	40 DA-A	40 DA-A	7 DA-C							
# Subsamples, Dec.	0	0	0	0							
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Grow Stg	Appl Code				
1	Python	80	WG	1	oz/a	PRE	A	99	48	99	0
	Durango DMA	4	SL	24	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
2	Boundary	6.5	L	1.5	pt/a	PRE	A	99	63	99	0
	Touchdown Total	4.17	L	24	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
3	Authority MTZ	75	WG	16	oz/a	PRE	A	99	72	99	0
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	2.5	lb/a	POST	C				
4	Canopy	75	WG	2.25	oz/a	PRE	A	99	56	99	2
	Abundit Extra	3	SL	32	fl oz/a	POST	C				
	AMS		WG	2	lb/a	POST	C				
5	Prefix	5.29	L	2	pt/a	PRE	A	87	88	68	0
	Touchdown Total	4.17	L	24	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
6	Untreated							0	0	0	0
7	Envive (3.5 oz/A)	41.3	WG					99	92	99	8
	Classic (Premix)	25	WG	1.28	oz/a	PRE	A				
	Valor (Premix)	51	WG	2	oz/a	PRE	A				
	Harmony SG (Premix)	50	WG	0.2	oz/a	PRE	A				
	Sencor	75	WG	4.75	oz/a	PRE	A				
	Cinch	7.64	L	1	pt/a	POST	C				
	Abundit Extra	3	SL	32	fl oz/a	POST	C				
	AMS		WG	2	lb/a	POST	C				
8	OpTill PRO (co-pack)							99	78	99	0
	OpTill	68	WG	2	oz/a	PRE	A				
	Outlook	6	L	10	fl oz/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
9	Verdict	5.57	L	5	fl oz/a	PRE	A	98	68	93	0
	Outlook	6	L	12	fl oz/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
10	Zidua	85	WG	2.5	oz/a	PRE	A	99	80	99	0
	Sharpen	2.85	L	1	fl oz/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
11	Fierce	76	WG	3	oz/a	PRE	A	99	95	99	2
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
12	Fierce	76	WG	3.75	oz/a	PRE	A	99	98	99	1
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
13	Sonic	70	WG	3	oz/a	PRE	A	99	56	99	1
	Durango DMA	4	SL	24	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
14	Sonic	70	WG	4.5	oz/a	PRE	A	99	70	99	0
	Durango DMA	4	SL	24	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
15	Sonic	70	WG	6	oz/a	PRE	A	99	74	99	0
	Durango DMA	4	SL	24	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				

MSU Weed Science Research Program

Weed Code	CHEAL	AMBEL	ABUTH	GLXMA						
Crop Code										
Rating Data Type	control	control	control	injury						
Rating Unit	percent	percent	percent	percent						
Rating Date	Jun/17/2013	Jun/17/2013	Jun/17/2013	Jun/26/2013						
Trt-Eval Interval	40 DA-A	40 DA-A	40 DA-A	7 DA-C						
# Subsamples, Dec.	0	0	0	0						
Trt Treatment	Form	Form	Rate	Grow	Appl					
No. Name	Conc	Type	Rate	Unit	Stg	Code				
16 Gangster FR	84	WG	0.4	oz/a	PRE	A	99	93	99	2
Gangster V	51	WG	2	oz/a	PRE	A				
Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
AMS		WG	17	lb/100 gal	POST	C				
17 Fierce XLT (3.75 oz/A)							99	93	99	1
Fierce (Premix)	76	WG	2.75	oz/a	PRE	A				
Classic (Premix)	25	WG	1	oz/a	PRE	A				
Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
AMS		WG	17	lb/100 gal	POST	C				
18 Authority MTZ	75	WG	13	oz/a	PRE	A	99	98	99	1
Command	3	L	24	fl oz/a	PRE	A				
Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
AMS		WG	2.5	lb/a	POST	C				
19 Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C	0	0	0	1
AMS		WG	17	lb/100 gal	POST	C				
20 Boundary	6.5	L	1.5	pt/a	PRE	A	99	65	97	19
Flexstar GT 3.5	2.82	L	3.5	pt/a	POST	C				
MSO		L	1	% v/v	POST	C				
AMS		WG	17	lb/100 gal	POST	C				
21 Authority MTZ	75	WG	16	oz/a	PRE	A	99	66	99	25
Marvel	3	L	7.25	fl oz/a	POST	C				
Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
AMS		WG	2.5	lb/a	POST	C				
22 Authority Elite	7	L	25	fl oz/a	PRE	A	99	33	92	25
Marvel	3	L	7.25	fl oz/a	POST	C				
Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
AMS		WG	2.5	lb/a	POST	C				
23 Touchdown Total	4.17	L	24	fl oz/a	EPOS	B	99	94	99	0
AMS		WG	17	lb/100 gal	EPOS	B				
Touchdown Total	4.17	L	24	fl oz/a	LPOS	D				
AMS		WG	17	lb/100 gal	LPOS	D				
24 LibertyLink soybean Untreated							0	0	0	0
25 LibertyLink soybean Valor XLT	40.3	WG	3	oz/a	PRE	A	99	90	99	2
Liberty	2.34	L	29	fl oz/a	POST	C				
AMS		WG	8.5	lb/100 gal	POST	C				
26 LibertyLink soybean Boundary	6.5	L	1.5	pt/a	PRE	A	99	65	99	0
Liberty	2.34	L	29	fl oz/a	POST	C				
AMS		WG	8.5	lb/100 gal	POST	C				
27 LibertyLink soybean Fierce	76	WG	2	oz/a	PRE	A	99	89	99	0
Metribuzin	75	WG	4	oz/a	PRE	A				
Liberty	2.34	L	29	fl oz/a	POST	C				
AMS		WG	8.5	lb/100 gal	POST	C				
28 LibertyLink soybean Liberty	2.34	L	29	fl oz/a	EPOS	B	99	86	94	0
AMS		WG	8.5	lb/100 gal	EPOS	B				
Liberty	2.34	L	29	fl oz/a	LPOS	D				
AMS		WG	8.5	lb/100 gal	LPOS	D				
LSD (P=.05)							3.0	10.6	4.2	2.5
CV							2.38	10.99	3.47	54.8

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

MSU Weed Science Research Program

Weed Code								ANGR	CHEAL	AMBEL	ABUTH
Crop Code											
Rating Data Type								control	control	control	control
Rating Unit								percent	percent	percent	percent
Rating Date								Jun/26/2013	Jun/26/2013	Jun/26/2013	Jun/26/2013
Trt-Eval Interval								7 DA-C	7 DA-C	7 DA-C	7 DA-C
# Subsamples, Dec.								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code				
1	Python	80	WG	1	oz/a	PRE	A	99	99	64	99
	Durango DMA	4	SL	24	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
2	Boundary	6.5	L	1.5	pt/a	PRE	A	99	99	66	97
	Touchdown Total	4.17	L	24	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
3	Authority MTZ	75	WG	16	oz/a	PRE	A	99	99	75	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	2.5	lb/a	POST	C				
4	Canopy	75	WG	2.25	oz/a	PRE	A	99	99	65	99
	Abundit Extra	3	SL	32	fl oz/a	POST	C				
	AMS		WG	2	lb/a	POST	C				
5	Prefix	5.29	L	2	pt/a	PRE	A	99	99	95	95
	Touchdown Total	4.17	L	24	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
6	Untreated							0	0	0	0
7	Envive (3.5 oz/A)	41.3	WG					99	99	96	99
	Classic (Premix)	25	WG	1.28	oz/a	PRE	A				
	Valor (Premix)	51	WG	2	oz/a	PRE	A				
	Harmony SG (Premix)	50	WG	0.2	oz/a	PRE	A				
	Sencor	75	WG	4.75	oz/a	PRE	A				
	Cinch	7.64	L	1	pt/a	POST	C				
	Abundit Extra	3	SL	32	fl oz/a	POST	C				
	AMS		WG	2	lb/a	POST	C				
8	OpTill PRO (co-pack)							99	99	77	99
	OpTill	68	WG	2	oz/a	PRE	A				
	Outlook	6	L	10	fl oz/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
9	Verdict	5.57	L	5	fl oz/a	PRE	A	99	99	67	99
	Outlook	6	L	12	fl oz/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
10	Zidua	85	WG	2.5	oz/a	PRE	A	99	99	87	99
	Sharpen	2.85	L	1	fl oz/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
11	Fierce	76	WG	3	oz/a	PRE	A	99	99	98	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
12	Fierce	76	WG	3.75	oz/a	PRE	A	99	99	98	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
13	Sonic	70	WG	3	oz/a	PRE	A	99	99	70	99
	Durango DMA	4	SL	24	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
14	Sonic	70	WG	4.5	oz/a	PRE	A	99	99	66	99
	Durango DMA	4	SL	24	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
15	Sonic	70	WG	6	oz/a	PRE	A	99	99	73	99
	Durango DMA	4	SL	24	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				

MSU Weed Science Research Program

Weed Code							ANGR	CHEAL	AMBEL	ABUTH	
Crop Code											
Rating Data Type							control	control	control	control	
Rating Unit							percent	percent	percent	percent	
Rating Date							Jun/26/2013	Jun/26/2013	Jun/26/2013	Jun/26/2013	
Trt-Eval Interval							7 DA-C	7 DA-C	7 DA-C	7 DA-C	
# Subsamples, Dec.							0	0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Grow Stg	Appl Code				
16	Gangster FR	84	WG	0.4	oz/a	PRE	A	99	99	96	99
	Gangster V	51	WG	2	oz/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
17	Fierce XLT (3.75 oz/A)							99	99	99	99
	Fierce (Premix)	76	WG	2.75	oz/a	PRE	A				
	Classic (Premix)	25	WG	1	oz/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
18	Authority MTZ	75	WG	13	oz/a	PRE	A	99	99	99	99
	Command	3	L	24	fl oz/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	2.5	lb/a	POST	C				
19	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C	99	99	65	91
	AMS		WG	17	lb/100 gal	POST	C				
20	Boundary	6.5	L	1.5	pt/a	PRE	A	99	99	99	99
	Flexstar GT 3.5	2.82	L	3.5	pt/a	POST	C				
	MSO		L	1	% v/v	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
21	Authority MTZ	75	WG	16	oz/a	PRE	A	99	99	82	99
	Marvel	3	L	7.25	fl oz/a	POST	C				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	2.5	lb/a	POST	C				
22	Authority Elite	7	L	25	fl oz/a	PRE	A	99	99	71	99
	Marvel	3	L	7.25	fl oz/a	POST	C				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	2.5	lb/a	POST	C				
23	Touchdown Total	4.17	L	24	fl oz/a	EPOS	B	79	94	76	98
	AMS		WG	17	lb/100 gal	EPOS	B				
	Touchdown Total	4.17	L	24	fl oz/a	LPOS	D				
	AMS		WG	17	lb/100 gal	LPOS	D				
24	LibertyLink soybean Untreated							0	0	0	0
25	LibertyLink soybean Valor XLT	40.3	WG	3	oz/a	PRE	A	99	99	99	99
	Liberty	2.34	L	29	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
26	LibertyLink soybean Boundary	6.5	L	1.5	pt/a	PRE	A	99	99	97	99
	Liberty	2.34	L	29	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
27	LibertyLink soybean Fierce	76	WG	2	oz/a	PRE	A	99	99	99	99
	Metribuzin	75	WG	4	oz/a	PRE	A				
	Liberty	2.34	L	29	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
28	LibertyLink soybean Liberty	2.34	L	29	fl oz/a	EPOS	B	80	90	70	91
	AMS		WG	8.5	lb/100 gal	EPOS	B				
	Liberty	2.34	L	29	fl oz/a	LPOS	D				
	AMS		WG	8.5	lb/100 gal	LPOS	D				
LSD (P=.05)								2.1	3.9	5.6	4.1
CV								1.64	3.02	5.21	3.22

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

MSU Weed Science Research Program

Weed Code									ANGR	CHEAL	AMBEL	ABUTH
Crop Code									GLXMA			
Rating Data Type									injury	control	control	control
Rating Unit									percent	percent	percent	percent
Rating Date									Jul/03/2013	Jul/03/2013	Jul/03/2013	Jul/03/2013
Trt-Eval Interval									14 DA-C	14 DA-C	14 DA-C	14 DA-C
# Subsamples, Dec.									0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	Python	80	WG	1	oz/a	PRE	A	0	98	99	70	99
	Durango DMA	4	SL	24	fl oz/a	POST	C					
	AMS		WG	8.5	lb/100 gal	POST	C					
2	Boundary	6.5	L	1.5	pt/a	PRE	A	0	99	99	75	99
	Touchdown Total	4.17	L	24	fl oz/a	POST	C					
	AMS		WG	17	lb/100 gal	POST	C					
3	Authority MTZ	75	WG	16	oz/a	PRE	A	0	99	99	85	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C					
	AMS		WG	2.5	lb/a	POST	C					
4	Canopy	75	WG	2.25	oz/a	PRE	A	1	99	99	78	99
	Abundit Extra	3	SL	32	fl oz/a	POST	C					
	AMS		WG	2	lb/a	POST	C					
5	Prefix	5.29	L	2	pt/a	PRE	A	0	99	99	95	99
	Touchdown Total	4.17	L	24	fl oz/a	POST	C					
	AMS		WG	17	lb/100 gal	POST	C					
6	Untreated							0	0	0	0	0
7	Envive (3.5 oz/A)	41.3	WG					5	99	99	97	99
	Classic (Premix)	25	WG	1.28	oz/a	PRE	A					
	Valor (Premix)	51	WG	2	oz/a	PRE	A					
	Harmony SG (Premix)	50	WG	0.2	oz/a	PRE	A					
	Sencor	75	WG	4.75	oz/a	PRE	A					
	Cinch	7.64	L	1	pt/a	POST	C					
	Abundit Extra	3	SL	32	fl oz/a	POST	C					
	AMS		WG	2	lb/a	POST	C					
8	OpTill PRO (co-pack)							0	99	99	82	99
	OpTill	68	WG	2	oz/a	PRE	A					
	Outlook	6	L	10	fl oz/a	PRE	A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C					
	AMS		WG	8.5	lb/100 gal	POST	C					
9	Verdict	5.57	L	5	fl oz/a	PRE	A	0	98	99	76	99
	Outlook	6	L	12	fl oz/a	PRE	A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C					
	AMS		WG	8.5	lb/100 gal	POST	C					
10	Zidua	85	WG	2.5	oz/a	PRE	A	0	99	99	94	99
	Sharpen	2.85	L	1	fl oz/a	PRE	A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C					
	AMS		WG	8.5	lb/100 gal	POST	C					
11	Fierce	76	WG	3	oz/a	PRE	A	1	97	99	96	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C					
	AMS		WG	17	lb/100 gal	POST	C					
12	Fierce	76	WG	3.75	oz/a	PRE	A	0	99	99	98	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C					
	AMS		WG	17	lb/100 gal	POST	C					
13	Sonic	70	WG	3	oz/a	PRE	A	0	99	99	75	99
	Durango DMA	4	SL	24	fl oz/a	POST	C					
	AMS		WG	8.5	lb/100 gal	POST	C					
14	Sonic	70	WG	4.5	oz/a	PRE	A	0	99	99	78	99
	Durango DMA	4	SL	24	fl oz/a	POST	C					
	AMS		WG	8.5	lb/100 gal	POST	C					
15	Sonic	70	WG	6	oz/a	PRE	A	0	99	99	80	99
	Durango DMA	4	SL	24	fl oz/a	POST	C					
	AMS		WG	8.5	lb/100 gal	POST	C					

MSU Weed Science Research Program

Weed Code	ANGR	CHEAL	AMBEL	ABUTH
Crop Code	GLXMA			
Rating Data Type	injury	control	control	control
Rating Unit	percent	percent	percent	percent
Rating Date	Jul/03/2013	Jul/03/2013	Jul/03/2013	Jul/03/2013
Trt-Eval Interval	14 DA-C	14 DA-C	14 DA-C	14 DA-C
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Grow Stg	Appl Code					
16	Gangster FR	84	WG	0.4	oz/a	PRE	A	0	94	99	98	99
	Gangster V	51	WG	2	oz/a	PRE	A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C					
	AMS		WG	17	lb/100 gal	POST	C					
17	Fierce XLT (3.75 oz/A)							1	98	99	98	99
	Fierce (Premix)	76	WG	2.75	oz/a	PRE	A					
	Classic (Premix)	25	WG	1	oz/a	PRE	A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C					
	AMS		WG	17	lb/100 gal	POST	C					
18	Authority MTZ	75	WG	13	oz/a	PRE	A	0	99	99	99	99
	Command	3	L	24	fl oz/a	PRE	A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C					
	AMS		WG	2.5	lb/a	POST	C					
19	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C	0	99	99	74	99
	AMS		WG	17	lb/100 gal	POST	C					
20	Boundary	6.5	L	1.5	pt/a	PRE	A	8	99	99	99	99
	Flexstar GT 3.5	2.82	L	3.5	pt/a	POST	C					
	MSO		L	1	% v/v	POST	C					
	AMS		WG	17	lb/100 gal	POST	C					
21	Authority MTZ	75	WG	16	oz/a	PRE	A	11	99	99	91	99
	Marvel	3	L	7.25	fl oz/a	POST	C					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C					
	AMS		WG	2.5	lb/a	POST	C					
22	Authority Elite	7	L	25	fl oz/a	PRE	A	14	99	99	78	99
	Marvel	3	L	7.25	fl oz/a	POST	C					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C					
	AMS		WG	2.5	lb/a	POST	C					
23	Touchdown Total	4.17	L	24	fl oz/a	EPOS	B	0	86	99	88	96
	AMS		WG	17	lb/100 gal	EPOS	B					
	Touchdown Total	4.17	L	24	fl oz/a	LPOS	D					
	AMS		WG	17	lb/100 gal	LPOS	D					
24	LibertyLink soybean Untreated							0	0	0	0	0
25	LibertyLink soybean Valor XLT	40.3	WG	3	oz/a	PRE	A	0	99	99	98	99
	Liberty	2.34	L	29	fl oz/a	POST	C					
	AMS		WG	8.5	lb/100 gal	POST	C					
26	LibertyLink soybean Boundary	6.5	L	1.5	pt/a	PRE	A	0	99	99	96	99
	Liberty	2.34	L	29	fl oz/a	POST	C					
	AMS		WG	8.5	lb/100 gal	POST	C					
27	LibertyLink soybean Fierce	76	WG	2	oz/a	PRE	A	0	98	99	97	99
	Metribuzin	75	WG	4	oz/a	PRE	A					
	Liberty	2.34	L	29	fl oz/a	POST	C					
	AMS		WG	8.5	lb/100 gal	POST	C					
28	LibertyLink soybean Liberty	2.34	L	29	fl oz/a	EPOS	B	5	80	99	79	99
	AMS		WG	8.5	lb/100 gal	EPOS	B					
	Liberty	2.34	L	29	fl oz/a	LPOS	D					
	AMS		WG	8.5	lb/100 gal	LPOS	D					

LSD (P=.05)	1.7	2.8	0.0	5.1	1.5
CV	75.61	2.22	0.0	4.48	1.15

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

MSU Weed Science Research Program

Weed Code								SINAR		ANGR	CHEAL	AMBEL
Crop Code									GLXMA			
Rating Data Type								control	injury	control	control	control
Rating Unit								percent	percent	percent	percent	percent
Rating Date								Jul/03/2013	Jul/17/2013	Jul/17/2013	Jul/17/2013	Jul/17/2013
Trt-Eval Interval								14 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C
# Subsamples, Dec.								0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	Python	80	WG	1	oz/a	PRE	A	99	0	79	99	81
	Durango DMA	4	SL	24	fl oz/a	POST	C					
	AMS		WG	8.5	lb/100 gal	POST	C					
2	Boundary	6.5	L	1.5	pt/a	PRE	A	99	0	97	99	89
	Touchdown Total	4.17	L	24	fl oz/a	POST	C					
	AMS		WG	17	lb/100 gal	POST	C					
3	Authority MTZ	75	WG	16	oz/a	PRE	A	99	0	94	99	93
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C					
	AMS		WG	2.5	lb/a	POST	C					
4	Canopy	75	WG	2.25	oz/a	PRE	A	99	0	85	99	88
	Abundit Extra	3	SL	32	fl oz/a	POST	C					
	AMS		WG	2	lb/a	POST	C					
5	Prefix	5.29	L	2	pt/a	PRE	A	99	0	98	99	98
	Touchdown Total	4.17	L	24	fl oz/a	POST	C					
	AMS		WG	17	lb/100 gal	POST	C					
6	Untreated							0	0	0	0	0
7	Envive (3.5 oz/A)	41.3	WG					99	0	99	99	97
	Classic (Premix)	25	WG	1.28	oz/a	PRE	A					
	Valor (Premix)	51	WG	2	oz/a	PRE	A					
	Harmony SG (Premix)	50	WG	0.2	oz/a	PRE	A					
	Sencor	75	WG	4.75	oz/a	PRE	A					
	Cinch	7.64	L	1	pt/a	POST	C					
	Abundit Extra	3	SL	32	fl oz/a	POST	C					
	AMS		WG	2	lb/a	POST	C					
8	OpTill PRO (co-pack)							99	0	93	99	93
	OpTill	68	WG	2	oz/a	PRE	A					
	Outlook	6	L	10	fl oz/a	PRE	A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C					
	AMS		WG	8.5	lb/100 gal	POST	C					
9	Verdict	5.57	L	5	fl oz/a	PRE	A	99	0	84	99	87
	Outlook	6	L	12	fl oz/a	PRE	A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C					
	AMS		WG	8.5	lb/100 gal	POST	C					
10	Zidua	85	WG	2.5	oz/a	PRE	A	99	0	96	99	97
	Sharpen	2.85	L	1	fl oz/a	PRE	A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C					
	AMS		WG	8.5	lb/100 gal	POST	C					
11	Fierce	76	WG	3	oz/a	PRE	A	99	0	91	99	96
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C					
	AMS		WG	17	lb/100 gal	POST	C					
12	Fierce	76	WG	3.75	oz/a	PRE	A	99	0	93	99	98
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C					
	AMS		WG	17	lb/100 gal	POST	C					
13	Sonic	70	WG	3	oz/a	PRE	A	99	0	86	99	89
	Durango DMA	4	SL	24	fl oz/a	POST	C					
	AMS		WG	8.5	lb/100 gal	POST	C					
14	Sonic	70	WG	4.5	oz/a	PRE	A	99	0	92	99	90
	Durango DMA	4	SL	24	fl oz/a	POST	C					
	AMS		WG	8.5	lb/100 gal	POST	C					
15	Sonic	70	WG	6	oz/a	PRE	A	99	0	97	99	95
	Durango DMA	4	SL	24	fl oz/a	POST	C					
	AMS		WG	8.5	lb/100 gal	POST	C					

MSU Weed Science Research Program

Weed Code							SINAR		ANGR	CHEAL	AMBEL	
Crop Code								GLXMA				
Rating Data Type							control	injury	control	control	control	
Rating Unit							percent	percent	percent	percent	percent	
Rating Date							Jul/03/2013	Jul/17/2013	Jul/17/2013	Jul/17/2013	Jul/17/2013	
Trt-Eval Interval							14 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C	
# Subsamples, Dec.							0	0	0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Grow Stg	Appl Code					
16	Gangster FR	84	WG	0.4	oz/a	PRE	A	99	0	79	99	95
	Gangster V	51	WG	2	oz/a	PRE	A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C					
	AMS		WG	17	lb/100 gal	POST	C					
17	Fierce XLT (3.75 oz/A)							99	0	91	99	98
	Fierce (Premix)	76	WG	2.75	oz/a	PRE	A					
	Classic (Premix)	25	WG	1	oz/a	PRE	A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C					
	AMS		WG	17	lb/100 gal	POST	C					
18	Authority MTZ	75	WG	13	oz/a	PRE	A	99	0	99	99	97
	Command	3	L	24	fl oz/a	PRE	A					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C					
	AMS		WG	2.5	lb/a	POST	C					
19	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C	96	0	80	95	90
	AMS		WG	17	lb/100 gal	POST	C					
20	Boundary	6.5	L	1.5	pt/a	PRE	A	99	0	99	99	99
	Flexstar GT 3.5	2.82	L	3.5	pt/a	POST	C					
	MSO		L	1	% v/v	POST	C					
	AMS		WG	17	lb/100 gal	POST	C					
21	Authority MTZ	75	WG	16	oz/a	PRE	A	99	0	99	99	92
	Marvel	3	L	7.25	fl oz/a	POST	C					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C					
	AMS		WG	2.5	lb/a	POST	C					
22	Authority Elite	7	L	25	fl oz/a	PRE	A	99	0	99	99	87
	Marvel	3	L	7.25	fl oz/a	POST	C					
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C					
	AMS		WG	2.5	lb/a	POST	C					
23	Touchdown Total	4.17	L	24	fl oz/a	EPOS	B	99	0	88	99	98
	AMS		WG	17	lb/100 gal	EPOS	B					
	Touchdown Total	4.17	L	24	fl oz/a	LPOS	D					
	AMS		WG	17	lb/100 gal	LPOS	D					
24	LibertyLink soybean Untreated							0	0	0	0	0
25	LibertyLink soybean Valor XLT	40.3	WG	3	oz/a	PRE	A	99	0	95	99	96
	Liberty	2.34	L	29	fl oz/a	POST	C					
	AMS		WG	8.5	lb/100 gal	POST	C					
26	LibertyLink soybean Boundary	6.5	L	1.5	pt/a	PRE	A	99	0	98	99	97
	Liberty	2.34	L	29	fl oz/a	POST	C					
	AMS		WG	8.5	lb/100 gal	POST	C					
27	LibertyLink soybean Fierce	76	WG	2	oz/a	PRE	A	99	0	97	99	95
	Metribuzin	75	WG	4	oz/a	PRE	A					
	Liberty	2.34	L	29	fl oz/a	POST	C					
	AMS		WG	8.5	lb/100 gal	POST	C					
28	LibertyLink soybean Liberty	2.34	L	29	fl oz/a	EPOS	B	87	0	95	98	99
	AMS		WG	8.5	lb/100 gal	EPOS	B					
	Liberty	2.34	L	29	fl oz/a	LPOS	D					
	AMS		WG	8.5	lb/100 gal	LPOS	D					
LSD (P=.05)								3.8	0.0	5.2	1.2	5.6
CV								2.93	0.0	4.3	0.9	4.57

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

MSU Weed Science Research Program

Weed Code		ABUTH	SINAR	GLXMA	ANGR					
Crop Code										
Rating Data Type		control	control	injury	control					
Rating Unit		percent	percent	percent	percent					
Rating Date		Jul/17/2013	Jul/17/2013	Aug/14/2013	Aug/14/2013					
Trt-Eval Interval		28 DA-C	28 DA-C	56 DA-C	56 DA-C					
# Subsamples, Dec.		0	0	0	0					
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code				
1	Python	80	WG	1 oz/a	PRE	A	99	99	0	85
	Durango DMA	4	SL	24 fl oz/a	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
2	Boundary	6.5	L	1.5 pt/a	PRE	A	98	99	0	97
	Touchdown Total	4.17	L	24 fl oz/a	POST	C				
	AMS		WG	17 lb/100 gal	POST	C				
3	Authority MTZ	75	WG	16 oz/a	PRE	A	99	99	0	98
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	AMS		WG	2.5 lb/a	POST	C				
4	Canopy	75	WG	2.25 oz/a	PRE	A	99	99	0	87
	Abundit Extra	3	SL	32 fl oz/a	POST	C				
	AMS		WG	2 lb/a	POST	C				
5	Prefix	5.29	L	2 pt/a	PRE	A	99	99	0	99
	Touchdown Total	4.17	L	24 fl oz/a	POST	C				
	AMS		WG	17 lb/100 gal	POST	C				
6	Untreated						0	0	0	0
7	Envive (3.5 oz/A)	41.3	WG				99	99	0	99
	Classic (Premix)	25	WG	1.28 oz/a	PRE	A				
	Valor (Premix)	51	WG	2 oz/a	PRE	A				
	Harmony SG (Premix)	50	WG	0.2 oz/a	PRE	A				
	Sencor	75	WG	4.75 oz/a	PRE	A				
	Cinch	7.64	L	1 pt/a	POST	C				
	Abundit Extra	3	SL	32 fl oz/a	POST	C				
	AMS		WG	2 lb/a	POST	C				
8	OpTill PRO (co-pack)						99	99	0	94
	OpTill	68	WG	2 oz/a	PRE	A				
	Outlook	6	L	10 fl oz/a	PRE	A				
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
9	Verdict	5.57	L	5 fl oz/a	PRE	A	99	99	0	87
	Outlook	6	L	12 fl oz/a	PRE	A				
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
10	Zidua	85	WG	2.5 oz/a	PRE	A	99	99	0	98
	Sharpen	2.85	L	1 fl oz/a	PRE	A				
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
11	Fierce	76	WG	3 oz/a	PRE	A	99	99	0	91
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	AMS		WG	17 lb/100 gal	POST	C				
12	Fierce	76	WG	3.75 oz/a	PRE	A	99	99	0	96
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	AMS		WG	17 lb/100 gal	POST	C				
13	Sonic	70	WG	3 oz/a	PRE	A	99	99	0	90
	Durango DMA	4	SL	24 fl oz/a	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
14	Sonic	70	WG	4.5 oz/a	PRE	A	99	99	0	97
	Durango DMA	4	SL	24 fl oz/a	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
15	Sonic	70	WG	6 oz/a	PRE	A	99	99	0	97
	Durango DMA	4	SL	24 fl oz/a	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				

MSU Weed Science Research Program

Weed Code							ABUTH	SINAR	GLXMA	ANGR	
Crop Code							control	control	injury	control	
Rating Data Type							percent	percent	percent	percent	
Rating Unit							Jul/17/2013	Jul/17/2013	Aug/14/2013	Aug/14/2013	
Rating Date							28 DA-C	28 DA-C	56 DA-C	56 DA-C	
Trt-Eval Interval							0	0	0	0	
# Subsamples, Dec.											
Trt	Treatment	Form	Form	Rate	Grow	Appl					
No.	Name	Conc	Type	Rate	Unit	Stg	Code				
16	Gangster FR	84	WG	0.4	oz/a	PRE	A	99	99	0	80
	Gangster V	51	WG	2	oz/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
17	Fierce XLT (3.75 oz/A)							99	99	0	91
	Fierce (Premix)	76	WG	2.75	oz/a	PRE	A				
	Classic (Premix)	25	WG	1	oz/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
18	Authority MTZ	75	WG	13	oz/a	PRE	A	99	99	0	99
	Command	3	L	24	fl oz/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	2.5	lb/a	POST	C				
19	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C	99	99	0	80
	AMS		WG	17	lb/100 gal	POST	C				
20	Boundary	6.5	L	1.5	pt/a	PRE	A	99	99	0	99
	Flexstar GT 3.5	2.82	L	3.5	pt/a	POST	C				
	MSO		L	1	% v/v	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
21	Authority MTZ	75	WG	16	oz/a	PRE	A	97	99	0	99
	Marvel	3	L	7.25	fl oz/a	POST	C				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	2.5	lb/a	POST	C				
22	Authority Elite	7	L	25	fl oz/a	PRE	A	98	99	0	99
	Marvel	3	L	7.25	fl oz/a	POST	C				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	2.5	lb/a	POST	C				
23	Touchdown Total	4.17	L	24	fl oz/a	EPOS	B	98	99	0	87
	AMS		WG	17	lb/100 gal	EPOS	B				
	Touchdown Total	4.17	L	24	fl oz/a	LPOS	D				
	AMS		WG	17	lb/100 gal	LPOS	D				
24	LibertyLink soybean Untreated							0	0	0	0
25	LibertyLink soybean Valor XLT	40.3	WG	3	oz/a	PRE	A	99	99	0	95
	Liberty	2.34	L	29	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
26	LibertyLink soybean Boundary	6.5	L	1.5	pt/a	PRE	A	99	99	0	99
	Liberty	2.34	L	29	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
27	LibertyLink soybean Fierce	76	WG	2	oz/a	PRE	A	99	99	0	95
	Metribuzin	75	WG	4	oz/a	PRE	A				
	Liberty	2.34	L	29	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
28	LibertyLink soybean Liberty	2.34	L	29	fl oz/a	EPOS	B	99	99	0	94
	AMS		WG	8.5	lb/100 gal	EPOS	B				
	Liberty	2.34	L	29	fl oz/a	LPOS	D				
	AMS		WG	8.5	lb/100 gal	LPOS	D				
LSD (P=.05)								1.4	0.0	0.0	4.8
CV								1.11	0.0	0.0	3.9

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

MSU Weed Science Research Program

Weed Code	CHEAL	AMBEL	ABUTH	SINAR							
Crop Code											
Rating Data Type	control	control	control	control							
Rating Unit	percent	percent	percent	percent							
Rating Date	Aug/14/2013	Aug/14/2013	Aug/14/2013	Aug/14/2013							
Trt-Eval Interval	56 DA-C	56 DA-C	56 DA-C	56 DA-C							
# Subsamples, Dec.	0	0	0	0							
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Grow Stg	Appl Code				
1	Python	80	WG	1	oz/a	PRE	A	99	89	99	99
	Durango DMA	4	SL	24	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
2	Boundary	6.5	L	1.5	pt/a	PRE	A	99	95	99	99
	Touchdown Total	4.17	L	24	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
3	Authority MTZ	75	WG	16	oz/a	PRE	A	99	94	99	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	2.5	lb/a	POST	C				
4	Canopy	75	WG	2.25	oz/a	PRE	A	99	94	99	99
	Abundit Extra	3	SL	32	fl oz/a	POST	C				
	AMS		WG	2	lb/a	POST	C				
5	Prefix	5.29	L	2	pt/a	PRE	A	99	99	99	99
	Touchdown Total	4.17	L	24	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
6	Untreated							0	0	0	0
7	Envive (3.5 oz/A)	41.3	WG					99	98	99	99
	Classic (Premix)	25	WG	1.28	oz/a	PRE	A				
	Valor (Premix)	51	WG	2	oz/a	PRE	A				
	Harmony SG (Premix)	50	WG	0.2	oz/a	PRE	A				
	Sencor	75	WG	4.75	oz/a	PRE	A				
	Cinch	7.64	L	1	pt/a	POST	C				
	Abundit Extra	3	SL	32	fl oz/a	POST	C				
	AMS		WG	2	lb/a	POST	C				
8	OpTill PRO (co-pack)							99	97	99	99
	OpTill	68	WG	2	oz/a	PRE	A				
	Outlook	6	L	10	fl oz/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
9	Verdict	5.57	L	5	fl oz/a	PRE	A	99	94	99	99
	Outlook	6	L	12	fl oz/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
10	Zidua	85	WG	2.5	oz/a	PRE	A	99	98	99	99
	Sharpen	2.85	L	1	fl oz/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
11	Fierce	76	WG	3	oz/a	PRE	A	99	98	99	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
12	Fierce	76	WG	3.75	oz/a	PRE	A	99	97	99	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
13	Sonic	70	WG	3	oz/a	PRE	A	99	95	99	99
	Durango DMA	4	SL	24	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
14	Sonic	70	WG	4.5	oz/a	PRE	A	99	97	99	99
	Durango DMA	4	SL	24	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				
15	Sonic	70	WG	6	oz/a	PRE	A	99	96	99	99
	Durango DMA	4	SL	24	fl oz/a	POST	C				
	AMS		WG	8.5	lb/100 gal	POST	C				

MSU Weed Science Research Program

Weed Code	CHEAL	AMBEL	ABUTH	SINAR						
Crop Code										
Rating Data Type	control	control	control	control						
Rating Unit	percent	percent	percent	percent						
Rating Date	Aug/14/2013	Aug/14/2013	Aug/14/2013	Aug/14/2013						
Trt-Eval Interval	56 DA-C	56 DA-C	56 DA-C	56 DA-C						
# Subsamples, Dec.	0	0	0	0						
Trt Treatment	Form	Form	Rate	Grow	Appl					
No. Name	Conc	Type	Rate	Unit	Stg	Code				
16 Gangster FR	84	WG	0.4	oz/a	PRE	A	99	95	99	99
Gangster V	51	WG	2	oz/a	PRE	A				
Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
AMS		WG	17	lb/100 gal	POST	C				
17 Fierce XLT (3.75 oz/A)							99	98	99	99
Fierce (Premix)	76	WG	2.75	oz/a	PRE	A				
Classic (Premix)	25	WG	1	oz/a	PRE	A				
Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
AMS		WG	17	lb/100 gal	POST	C				
18 Authority MTZ	75	WG	13	oz/a	PRE	A	99	99	99	99
Command	3	L	24	fl oz/a	PRE	A				
Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
AMS		WG	2.5	lb/a	POST	C				
19 Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C	99	93	99	99
AMS		WG	17	lb/100 gal	POST	C				
20 Boundary	6.5	L	1.5	pt/a	PRE	A	99	99	99	99
Flexstar GT 3.5	2.82	L	3.5	pt/a	POST	C				
MSO		L	1	% v/v	POST	C				
AMS		WG	17	lb/100 gal	POST	C				
21 Authority MTZ	75	WG	16	oz/a	PRE	A	99	98	99	99
Marvel	3	L	7.25	fl oz/a	POST	C				
Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
AMS		WG	2.5	lb/a	POST	C				
22 Authority Elite	7	L	25	fl oz/a	PRE	A	99	91	96	99
Marvel	3	L	7.25	fl oz/a	POST	C				
Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
AMS		WG	2.5	lb/a	POST	C				
23 Touchdown Total	4.17	L	24	fl oz/a	EPOS	B	99	97	97	99
AMS		WG	17	lb/100 gal	EPOS	B				
Touchdown Total	4.17	L	24	fl oz/a	LPOS	D				
AMS		WG	17	lb/100 gal	LPOS	D				
24 LibertyLink soybean Untreated							0	0	0	0
25 LibertyLink soybean Valor XLT	40.3	WG	3	oz/a	PRE	A	99	99	99	99
Liberty	2.34	L	29	fl oz/a	POST	C				
AMS		WG	8.5	lb/100 gal	POST	C				
26 LibertyLink soybean Boundary	6.5	L	1.5	pt/a	PRE	A	99	98	98	99
Liberty	2.34	L	29	fl oz/a	POST	C				
AMS		WG	8.5	lb/100 gal	POST	C				
27 LibertyLink soybean Fierce	76	WG	2	oz/a	PRE	A	99	94	99	99
Metribuzin	75	WG	4	oz/a	PRE	A				
Liberty	2.34	L	29	fl oz/a	POST	C				
AMS		WG	8.5	lb/100 gal	POST	C				
28 LibertyLink soybean Liberty	2.34	L	29	fl oz/a	EPOS	B	99	97	99	99
AMS		WG	8.5	lb/100 gal	EPOS	B				
Liberty	2.34	L	29	fl oz/a	LPOS	D				
AMS		WG	8.5	lb/100 gal	LPOS	D				
LSD (P=.05)	0.4						0.4	5.6	2.0	0.0
CV	0.29						0.29	4.44	1.53	0.0

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

MSU Weed Science Research Program

Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	# Subsamples, Dec.	GLXMA moisture percent	GLXMA yield bu/acre	
							114 DA-C	Oct/11/2013	
							at 13% M	Oct/11/2013	
							1	1	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code		
1	Python	80	WG	1	oz/a	PRE	A	10.5	58.9
	Durango DMA	4	SL	24	fl oz/a	POST	C		
	AMS		WG	8.5	lb/100 gal	POST	C		
2	Boundary	6.5	L	1.5	pt/a	PRE	A	10.4	65.7
	Touchdown Total	4.17	L	24	fl oz/a	POST	C		
	AMS		WG	17	lb/100 gal	POST	C		
3	Authority MTZ	75	WG	16	oz/a	PRE	A	10.5	64.7
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C		
	AMS		WG	2.5	lb/a	POST	C		
4	Canopy	75	WG	2.25	oz/a	PRE	A	10.4	64.9
	Abundit Extra	3	SL	32	fl oz/a	POST	C		
	AMS		WG	2	lb/a	POST	C		
5	Prefix	5.29	L	2	pt/a	PRE	A	10.5	64.4
	Touchdown Total	4.17	L	24	fl oz/a	POST	C		
	AMS		WG	17	lb/100 gal	POST	C		
6	Untreated							10.8	27.9
7	Envive (3.5 oz/A)	41.3	WG					10.6	58.1
	Classic (Premix)	25	WG	1.28	oz/a	PRE	A		
	Valor (Premix)	51	WG	2	oz/a	PRE	A		
	Harmony SG (Premix)	50	WG	0.2	oz/a	PRE	A		
	Sencor	75	WG	4.75	oz/a	PRE	A		
	Cinch	7.64	L	1	pt/a	POST	C		
	Abundit Extra	3	SL	32	fl oz/a	POST	C		
	AMS		WG	2	lb/a	POST	C		
8	OpTill PRO (co-pack)							10.5	60.0
	OpTill	68	WG	2	oz/a	PRE	A		
	Outlook	6	L	10	fl oz/a	PRE	A		
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C		
	AMS		WG	8.5	lb/100 gal	POST	C		
9	Verdict	5.57	L	5	fl oz/a	PRE	A	10.5	60.3
	Outlook	6	L	12	fl oz/a	PRE	A		
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C		
	AMS		WG	8.5	lb/100 gal	POST	C		
10	Zidua	85	WG	2.5	oz/a	PRE	A	10.5	61.2
	Sharpen	2.85	L	1	fl oz/a	PRE	A		
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C		
	AMS		WG	8.5	lb/100 gal	POST	C		
11	Fierce	76	WG	3	oz/a	PRE	A	10.5	61.7
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C		
	AMS		WG	17	lb/100 gal	POST	C		
12	Fierce	76	WG	3.75	oz/a	PRE	A	10.4	62.0
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C		
	AMS		WG	17	lb/100 gal	POST	C		
13	Sonic	70	WG	3	oz/a	PRE	A	10.5	63.4
	Durango DMA	4	SL	24	fl oz/a	POST	C		
	AMS		WG	8.5	lb/100 gal	POST	C		
14	Sonic	70	WG	4.5	oz/a	PRE	A	10.6	62.6
	Durango DMA	4	SL	24	fl oz/a	POST	C		
	AMS		WG	8.5	lb/100 gal	POST	C		
15	Sonic	70	WG	6	oz/a	PRE	A	10.5	65.2
	Durango DMA	4	SL	24	fl oz/a	POST	C		
	AMS		WG	8.5	lb/100 gal	POST	C		

MSU Weed Science Research Program

Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	# Subsamples, Dec.	GLXMA moisture percent	GLXMA yield bu/acre
							114 DA-C	Oct/11/2013
							at 13% M	Oct/11/2013
							1	1
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Grow Stg	Appl Code	
16	Gangster FR	84	WG	0.4	oz/a	PRE	A	10.5
	Gangster V	51	WG	2	oz/a	PRE	A	60.9
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C	
	AMS		WG	17	lb/100 gal	POST	C	
17	Fierce XLT (3.75 oz/A)							10.5
	Fierce (Premix)	76	WG	2.75	oz/a	PRE	A	62.2
	Classic (Premix)	25	WG	1	oz/a	PRE	A	
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C	
	AMS		WG	17	lb/100 gal	POST	C	
18	Authority MTZ	75	WG	13	oz/a	PRE	A	10.5
	Command	3	L	24	fl oz/a	PRE	A	63.4
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C	
	AMS		WG	2.5	lb/a	POST	C	
19	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C	10.4
	AMS		WG	17	lb/100 gal	POST	C	64.4
20	Boundary	6.5	L	1.5	pt/a	PRE	A	10.5
	Flexstar GT 3.5	2.82	L	3.5	pt/a	POST	C	60.2
	MSO		L	1	% v/v	POST	C	
	AMS		WG	17	lb/100 gal	POST	C	
21	Authority MTZ	75	WG	16	oz/a	PRE	A	10.4
	Marvel	3	L	7.25	fl oz/a	POST	C	58.7
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C	
	AMS		WG	2.5	lb/a	POST	C	
22	Authority Elite	7	L	25	fl oz/a	PRE	A	10.5
	Marvel	3	L	7.25	fl oz/a	POST	C	61.3
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C	
	AMS		WG	2.5	lb/a	POST	C	
23	Touchdown Total	4.17	L	24	fl oz/a	EPOS	B	10.5
	AMS		WG	17	lb/100 gal	EPOS	B	63.9
	Touchdown Total	4.17	L	24	fl oz/a	LPOS	D	
	AMS		WG	17	lb/100 gal	LPOS	D	
24	LibertyLink soybean Untreated							10.9
25	LibertyLink soybean Valor XLT	40.3	WG	3	oz/a	PRE	A	10.5
	Liberty	2.34	L	29	fl oz/a	POST	C	68.6
	AMS		WG	8.5	lb/100 gal	POST	C	
26	LibertyLink soybean Boundary	6.5	L	1.5	pt/a	PRE	A	10.5
	Liberty	2.34	L	29	fl oz/a	POST	C	71.7
	AMS		WG	8.5	lb/100 gal	POST	C	
27	LibertyLink soybean Fierce	76	WG	2	oz/a	PRE	A	10.5
	Metribuzin	75	WG	4	oz/a	PRE	A	67.4
	Liberty	2.34	L	29	fl oz/a	POST	C	
	AMS		WG	8.5	lb/100 gal	POST	C	
28	LibertyLink soybean Liberty	2.34	L	29	fl oz/a	EPOS	B	10.5
	AMS		WG	8.5	lb/100 gal	EPOS	B	66.5
	Liberty	2.34	L	29	fl oz/a	LPOS	D	
	AMS		WG	8.5	lb/100 gal	LPOS	D	
LSD (P=.05)							0.15	8.30
CV							0.98	9.64

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