

MSU Weed Science Research Program

Weed control options in non-GMO soybean

Trial ID: SOY07-13 Study Dir.: Sprague, Powell
 Conducted: Campus C-14 Investigator: Christy Sprague

Date Planted: May/08/2013 **Row Spacing:** 30 IN
Variety: AG2433RR **No. of Reps:** 4
Population: 155,000 seeds/A **% OM:** 3.5
Soil Type: Silt loam **pH:** 6.5
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.	AMAPO	AMARANTH, POWELL	AMARANTHUS POWELLII S.WATS.
4.	AMBEL	RAGWEED, COMMON	AMBROSIA ARTEMISIIFOLIA L.
5.	ABUTH	VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.
Crop	Code	Common Name	
1.	GLXMA	SOYBEAN	

Application Description

	A	B
Application Timing:	PRE	POST
Date Treated:	May/08/2013	Jun/19/2013
Time Treated:	3:15 PM	4:00 PM
% Cloud Cover:	70	5
Air Temp., Unit:	80 F	74 F
% Relative Humidity:	27	30
Wind Speed/Unit/Dir:	4 mph NE	1 mph N
Soil Temp., Unit:	68 F	74 F
Soil/Leaf Surface M:	3 -	5 5
Soil Moist (1=w 5=d):	3	3

Crop Stage at Each Application

	A	B
Crop Name:	GLXMA	GLXMA
Height (In.):	-	8"
Stage (L):	-	V3

Weed Stage at Each Application

	A	B
Weed 1 Name:	ANGR	ANGR
Height (In.):	-	4"
Stage (L):	-	4
Weed 2 Name:	CHEAL	CHEAL
Height (In.):	-	2"
Stage (L):	-	8
Weed 3 Name:	AMAPO	AMAPO
Height (In.):	-	-
Stage (L):	-	-
Weed 4 Name:	AMBEL	AMBEL
Height (In.):	-	4"
Stage (L):	-	12
Weed 5 Name:	ABUTH	ABUTH
Height (In.):	-	3"
Stage (L):	-	4

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	AMAPO	AMBEL	ABUTH
Density:	20	5	1	39	<1

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom				
	Type	MPH	Type	Size	Height	Spacing	Width	GPA	Carrier	PSI	
A	Cub	3.8	AIXR	11003	22"	20"	100"	19	water	30	
B	Cub	3.8	AIXR	11003	25"	20"	100"	19	water	30	

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Trial ID: SOY07-13 Study Dir.: Sprague, Powell
 Conducted: Campus C-14 Investigator: Christy Sprague

Weed Code	ANGR	CHEAL	AMBEL	ABUTH
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	Form Rate	Rate Unit	Grow Stg	Appl Code					
1	Valor	51	WG	2.5	oz/a	PRE	A	31	99	99	93	99
	Prowl H2O	3.8	L	2	pt/a	PRE	A					
	Flexstar	1.88	L	1	pt/a	POST	B					
	SelectMax	0.97	L	12	fl oz/a	POST	B					
	COC		L	1	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
2	Valor	51	WG	2.5	oz/a	PRE	A	28	99	99	86	99
	Zidua	85	WG	2.5	oz/a	PRE	A					
	Cobra	2	L	8	fl oz/a	POST	B					
	SelectMax	0.97	L	12	fl oz/a	POST	B					
	COC		L	0.5	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
3	Valor XLT	40.3	WG	4	oz/a	PRE	A	19	86	99	83	98
	Metribuzin	75	WG	4	oz/a	PRE	A					
	Flexstar	1.88	L	1	pt/a	POST	B					
	SelectMax	0.97	L	12	fl oz/a	POST	B					
	COC		L	1	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
4	Valor XLT	40.3	WG	4	oz/a	PRE	A	31	99	99	98	99
	Zidua	85	WG	2.5	oz/a	PRE	A					
	Flexstar	1.88	L	1	pt/a	POST	B					
	COC		L	1	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
5	Envive (3.5 oz/A)							29	96	99	82	99
	Classic (Premix)	25	WG	1.28	oz/a	PRE	A					
	Harmony SG (Premix)	50	WG	0.192	oz/a	PRE	A					
	Valor (Premix)	51	WG	2	oz/a	PRE	A					
	Prowl H2O	3.8	L	2	pt/a	PRE	A					
	Cobra	2	L	8	fl oz/a	POST	B					
	SelectMax	0.97	L	12	fl oz/a	POST	B					
	COC		L	0.5	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
6	Canopy	75	WG	2.25	oz/a	PRE	A	29	98	99	87	99
	Valor	51	WG	2	oz/a	PRE	A					
	Sencor	75	WG	2	oz/a	PRE	A					
	Prowl H2O	3.8	L	2	pt/a	PRE	A					
	Flexstar	1.88	L	1	pt/a	POST	B					
	SelectMax	0.97	L	12	fl oz/a	POST	B					
	COC		L	1	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
7	Trivence (8 oz/A)							29	99	99	98	99
	Classic (Premix)	25	WG	1.25	oz/a	PRE	A					
	Metribuzin (Premix)	75	WG	4.75	oz/a	PRE	A					
	Valor (Premix)	51	WG	2	oz/a	PRE	A					
	Zidua	85	WG	2.5	oz/a	PRE	A					
	Flexstar	1.88	L	12	fl oz/a	POST	B					
	COC		L	1	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					

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Weed Code								ANGR	CHEAL	AMBEL	ABUTH
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 Treatment	Form	Form	Rate	Grow	Appl						
No. Name	Conc	Type	Rate	Unit	Stg	Code					
8 Boundary	6.5	L	2.4	pt/a	PRE	A	8	99	99	82	99
Flexstar	1.88	L	1	pt/a	POST	B					
COC		L	1	% v/v	POST	B					
AMS		WG	2.5	lb/a	POST	B					
9 Python	80	WG	0.8	oz/a	PRE	A	8	99	99	75	99
Boundary	6.5	L	2	pt/a	PRE	A					
Cobra	2	L	8	fl oz/a	POST	B					
COC		L	0.5	% v/v	POST	B					
AMS		WG	2.5	lb/a	POST	B					
10 Authority XL	70	WG	3.2	oz/a	PRE	A	9	99	99	85	99
Boundary	6.5	L	2	pt/a	PRE	A					
Cobra	2	L	8	fl oz/a	POST	B					
COC		L	0.5	% v/v	POST	B					
AMS		WG	2.5	lb/a	POST	B					
11 Metribuzin	75	WG	5	oz/a	PRE	A	11	99	99	77	99
Dual II Magnum	7.64	L	1.33	pt/a	PRE	A					
Linex	4	L	1	pt/a	PRE	A					
Flexstar	1.88	L	1	pt/a	POST	B					
COC		L	1	% v/v	POST	B					
AMS		WG	2.5	lb/a	POST	B					
12 Canopy	75	WG	2.25	oz/a	PRE	A	5	98	99	94	98
Prefix	5.29	L	2	pt/a	PRE	A					
Cobra	2	L	8	fl oz/a	POST	B					
Resource	0.86	L	4	fl oz/a	POST	B					
SelectMax	0.97	L	12	fl oz/a	POST	B					
COC		L	0.5	% v/v	POST	B					
AMS		WG	2.5	lb/a	POST	B					
13 Optill Pro - OpTill	68	WG	2	oz/a	PRE	A	5	99	99	95	99
OpTill Pro - Outlook	6	L	10	fl oz/a	PRE	A					
Outlook	6	L	8	fl oz/a	PRE	A					
Metribuzin	75	WG	5	oz/a	PRE	A					
Cobra	2	L	8	fl oz/a	POST	B					
COC		L	0.5	% v/v	POST	B					
AMS		WG	2.5	lb/a	POST	B					
14 Untreated							0	0	0	0	0
15 Authority MTZ	45	WG	13	oz/a	PRE	A	0	99	99	94	99
Command 3ME	3	L	24	fl oz/a	PRE	A					
Flexstar	1.88	L	1	pt/a	POST	B					
COC		L	1	% v/v	POST	B					
AMS		WG	2.5	lb/a	POST	B					
16 Authority MTZ	45	WG	13	oz/a	PRE	A	5	98	99	64	94
Dual II Magnum	7.64	L	1	pt/a	PRE	A					
Flexstar	1.88	L	1	pt/a	POST	B					
SelectMax	0.97	L	9	fl oz/a	POST	B					
COC		L	1	% v/v	POST	B					
AMS		WG	2.5	lb/a	POST	B					
17 Authority MTZ	45	WG	16	oz/a	PRE	A	1	98	99	74	99
Flexstar	1.88	L	1	pt/a	POST	B					
SelectMax	0.97	L	9	fl oz/a	POST	B					
COC		L	1	% v/v	POST	B					
AMS		WG	2.5	lb/a	POST	B					
18 Authority MTZ	45	WG	16	oz/a	PRE	A	0	97	99	75	96
Marvel	3	L	7.25	fl oz/a	POST	B					
SelectMax	0.97	L	9	fl oz/a	POST	B					
COC		L	1	% v/v	POST	B					
AMS		WG	2.5	lb/a	POST	B					

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Weed Code						
Crop Code						
Rating Data Type	GLXMA	ANGR	CHEAL	AMBEL	ABUTH	
Rating Unit	injury	control	control	control	control	
Rating Date	percent	percent	percent	percent	percent	
Trt-Eval Interval	Jun/07/2013	Jun/07/2013	Jun/07/2013	Jun/07/2013	Jun/07/2013	
# Subsamples, Dec.	30 DA-A	30 DA-A	30 DA-A	30 DA-A	30 DA-A	
	0	0	0	0	0	

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code					
19	Weed-free											
	LSD (P=.05)							5.3	2.8	0.2	7.6	4.0
	CV							27.21	2.15	0.13	6.76	3.02

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

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Weed Code									ANGR	CHEAL	AMAPO	AMBEL
Crop Code									GLXMA			
Rating Data Type									injury	control	control	control
Rating Unit									percent	percent	percent	percent
Rating Date									Jun/18/2013	Jun/18/2013	Jun/18/2013	Jun/18/2013
Trt-Eval Interval									41 DA-A	41 DA-A	41 DA-A	41 DA-A
# Subsamples, Dec.									0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	Valor	51	WG	2.5	oz/a	PRE	A	5	95	99	99	82
	Prowl H2O	3.8	L	2	pt/a	PRE	A					
	Flexstar	1.88	L	1	pt/a	POST	B					
	SelectMax	0.97	L	12	fl oz/a	POST	B					
	COC		L	1	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
2	Valor	51	WG	2.5	oz/a	PRE	A	8	93	97	99	76
	Zidua	85	WG	2.5	oz/a	PRE	A					
	Cobra	2	L	8	fl oz/a	POST	B					
	SelectMax	0.97	L	12	fl oz/a	POST	B					
	COC		L	0.5	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
3	Valor XLT	40.3	WG	4	oz/a	PRE	A	7	78	99	99	68
	Metribuzin	75	WG	4	oz/a	PRE	A					
	Flexstar	1.88	L	1	pt/a	POST	B					
	SelectMax	0.97	L	12	fl oz/a	POST	B					
	COC		L	1	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
4	Valor XLT	40.3	WG	4	oz/a	PRE	A	19	96	99	99	86
	Zidua	85	WG	2.5	oz/a	PRE	A					
	Flexstar	1.88	L	1	pt/a	POST	B					
	COC		L	1	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
5	Envive (3.5 oz/A)							5	92	99	99	78
	Classic (Premix)	25	WG	1.28	oz/a	PRE	A					
	Harmony SG (Premix)	50	WG	0.192	oz/a	PRE	A					
	Valor (Premix)	51	WG	2	oz/a	PRE	A					
	Prowl H2O	3.8	L	2	pt/a	PRE	A					
	Cobra	2	L	8	fl oz/a	POST	B					
	SelectMax	0.97	L	12	fl oz/a	POST	B					
	COC		L	0.5	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
6	Canopy	75	WG	2.25	oz/a	PRE	A	11	94	99	99	80
	Valor	51	WG	2	oz/a	PRE	A					
	Sencor	75	WG	2	oz/a	PRE	A					
	Prowl H2O	3.8	L	2	pt/a	PRE	A					
	Flexstar	1.88	L	1	pt/a	POST	B					
	SelectMax	0.97	L	12	fl oz/a	POST	B					
	COC		L	1	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
7	Trivence (8 oz/A)							16	99	99	99	93
	Classic (Premix)	25	WG	1.25	oz/a	PRE	A					
	Metribuzin (Premix)	75	WG	4.75	oz/a	PRE	A					
	Valor (Premix)	51	WG	2	oz/a	PRE	A					
	Zidua	85	WG	2.5	oz/a	PRE	A					
	Flexstar	1.88	L	12	fl oz/a	POST	B					
	COC		L	1	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
8	Boundary	6.5	L	2.4	pt/a	PRE	A	7	99	99	99	74
	Flexstar	1.88	L	1	pt/a	POST	B					
	COC		L	1	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					

MSU Weed Science Research Program

Weed Code								ANGR	CHEAL	AMAPO	AMBEL
Crop Code								GLXMA			
Rating Data Type								injury	control	control	control
Rating Unit								percent	percent	percent	percent
Rating Date								Jun/18/2013	Jun/18/2013	Jun/18/2013	Jun/18/2013
Trt-Eval Interval								41 DA-A	41 DA-A	41 DA-A	41 DA-A
# Subsamples, Dec.								0	0	0	0
Trt Treatment	Form	Form	Rate	Grow	Appl						
No. Name	Conc	Type	Rate	Unit	Stg	Code					
9 Python	80	WG	0.8	oz/a	PRE	A	4	98	99	99	65
Boundary	6.5	L	2	pt/a	PRE	A					
Cobra	2	L	8	fl oz/a	POST	B					
COC		L	0.5	% v/v	POST	B					
AMS		WG	2.5	lb/a	POST	B					
10 Authority XL	70	WG	3.2	oz/a	PRE	A	6	98	99	99	78
Boundary	6.5	L	2	pt/a	PRE	A					
Cobra	2	L	8	fl oz/a	POST	B					
COC		L	0.5	% v/v	POST	B					
AMS		WG	2.5	lb/a	POST	B					
11 Metribuzin	75	WG	5	oz/a	PRE	A	5	99	99	99	71
Dual II Magnum	7.64	L	1.33	pt/a	PRE	A					
Linex	4	L	1	pt/a	PRE	A					
Flexstar	1.88	L	1	pt/a	POST	B					
COC		L	1	% v/v	POST	B					
AMS		WG	2.5	lb/a	POST	B					
12 Canopy	75	WG	2.25	oz/a	PRE	A	9	93	99	99	87
Prefix	5.29	L	2	pt/a	PRE	A					
Cobra	2	L	8	fl oz/a	POST	B					
Resource	0.86	L	4	fl oz/a	POST	B					
SelectMax	0.97	L	12	fl oz/a	POST	B					
COC		L	0.5	% v/v	POST	B					
AMS		WG	2.5	lb/a	POST	B					
13 Optill Pro - OpTill	68	WG	2	oz/a	PRE	A	9	98	99	99	82
OpTill Pro - Outlook	6	L	10	fl oz/a	PRE	A					
Outlook	6	L	8	fl oz/a	PRE	A					
Metribuzin	75	WG	5	oz/a	PRE	A					
Cobra	2	L	8	fl oz/a	POST	B					
COC		L	0.5	% v/v	POST	B					
AMS		WG	2.5	lb/a	POST	B					
14 Untreated							0	0	0	0	0
15 Authority MTZ	45	WG	13	oz/a	PRE	A	0	98	99	99	87
Command 3ME	3	L	24	fl oz/a	PRE	A					
Flexstar	1.88	L	1	pt/a	POST	B					
COC		L	1	% v/v	POST	B					
AMS		WG	2.5	lb/a	POST	B					
16 Authority MTZ	45	WG	13	oz/a	PRE	A	0	96	99	99	45
Dual II Magnum	7.64	L	1	pt/a	PRE	A					
Flexstar	1.88	L	1	pt/a	POST	B					
SelectMax	0.97	L	9	fl oz/a	POST	B					
COC		L	1	% v/v	POST	B					
AMS		WG	2.5	lb/a	POST	B					
17 Authority MTZ	45	WG	16	oz/a	PRE	A	9	88	99	99	66
Flexstar	1.88	L	1	pt/a	POST	B					
SelectMax	0.97	L	9	fl oz/a	POST	B					
COC		L	1	% v/v	POST	B					
AMS		WG	2.5	lb/a	POST	B					
18 Authority MTZ	45	WG	16	oz/a	PRE	A	3	85	99	99	64
Marvel	3	L	7.25	fl oz/a	POST	B					
SelectMax	0.97	L	9	fl oz/a	POST	B					
COC		L	1	% v/v	POST	B					
AMS		WG	2.5	lb/a	POST	B					
19 Weed-free							0	99	99	99	99
LSD (P=.05)							7.6	4.5	1.5	0.0	8.4
CV							84.54	3.6	1.1	0.0	8.12

MSU Weed Science Research Program

Weed Code	ABUTH	GLXMA	ANGR	CHEAL	AMBEL
Crop Code					
Rating Data Type	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Rating Date	Jun/18/2013	Jun/26/2013	Jun/26/2013	Jun/26/2013	Jun/26/2013
Trt-Eval Interval	41 DA-A	7 DA-B	7 DA-B	7 DA-B	7 DA-B
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	Valor	51	WG	2.5	oz/a	PRE	A	99	15	98	99	98
	Prowl H2O	3.8	L	2	pt/a	PRE	A					
	Flexstar	1.88	L	1	pt/a	POST	B					
	SelectMax	0.97	L	12	fl oz/a	POST	B					
	COC		L	1	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
2	Valor	51	WG	2.5	oz/a	PRE	A	99	26	99	99	98
	Zidua	85	WG	2.5	oz/a	PRE	A					
	Cobra	2	L	8	fl oz/a	POST	B					
	SelectMax	0.97	L	12	fl oz/a	POST	B					
	COC		L	0.5	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
3	Valor XLT	40.3	WG	4	oz/a	PRE	A	99	20	90	99	97
	Metribuzin	75	WG	4	oz/a	PRE	A					
	Flexstar	1.88	L	1	pt/a	POST	B					
	SelectMax	0.97	L	12	fl oz/a	POST	B					
	COC		L	1	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
4	Valor XLT	40.3	WG	4	oz/a	PRE	A	99	29	93	99	99
	Zidua	85	WG	2.5	oz/a	PRE	A					
	Flexstar	1.88	L	1	pt/a	POST	B					
	COC		L	1	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
5	Envive (3.5 oz/A)							99	30	97	99	94
	Classic (Premix)	25	WG	1.28	oz/a	PRE	A					
	Harmony SG (Premix)	50	WG	0.192	oz/a	PRE	A					
	Valor (Premix)	51	WG	2	oz/a	PRE	A					
	Prowl H2O	3.8	L	2	pt/a	PRE	A					
	Cobra	2	L	8	fl oz/a	POST	B					
	SelectMax	0.97	L	12	fl oz/a	POST	B					
	COC		L	0.5	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
6	Canopy	75	WG	2.25	oz/a	PRE	A	99	21	97	99	99
	Valor	51	WG	2	oz/a	PRE	A					
	Sencor	75	WG	2	oz/a	PRE	A					
	Prowl H2O	3.8	L	2	pt/a	PRE	A					
	Flexstar	1.88	L	1	pt/a	POST	B					
	SelectMax	0.97	L	12	fl oz/a	POST	B					
	COC		L	1	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
7	Trivence (8 oz/A)							99	23	99	99	99
	Classic (Premix)	25	WG	1.25	oz/a	PRE	A					
	Metribuzin (Premix)	75	WG	4.75	oz/a	PRE	A					
	Valor (Premix)	51	WG	2	oz/a	PRE	A					
	Zidua	85	WG	2.5	oz/a	PRE	A					
	Flexstar	1.88	L	12	fl oz/a	POST	B					
	COC		L	1	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
8	Boundary	6.5	L	2.4	pt/a	PRE	A	99	18	99	99	99
	Flexstar	1.88	L	1	pt/a	POST	B					
	COC		L	1	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					

MSU Weed Science Research Program

Weed Code							ABUTH		ANGR	CHEAL	AMBEL
Crop Code								GLXMA			
Rating Data Type							control	injury	control	control	control
Rating Unit							percent	percent	percent	percent	percent
Rating Date							Jun/18/2013	Jun/26/2013	Jun/26/2013	Jun/26/2013	Jun/26/2013
Trt-Eval Interval							41 DA-A	7 DA-B	7 DA-B	7 DA-B	7 DA-B
# Subsamples, Dec.							0	0	0	0	0
Trt Treatment	Form	Form	Rate	Grow	Appl						
No. Name	Conc	Type	Unit	Stg	Code						
9 Python	80	WG	0.8 oz/a	PRE	A	99		29	96	99	98
Boundary	6.5	L	2 pt/a	PRE	A						
Cobra	2	L	8 fl oz/a	POST	B						
COC		L	0.5 % v/v	POST	B						
AMS		WG	2.5 lb/a	POST	B						
10 Authority XL	70	WG	3.2 oz/a	PRE	A	99		28	96	99	99
Boundary	6.5	L	2 pt/a	PRE	A						
Cobra	2	L	8 fl oz/a	POST	B						
COC		L	0.5 % v/v	POST	B						
AMS		WG	2.5 lb/a	POST	B						
11 Metribuzin	75	WG	5 oz/a	PRE	A	99		15	99	99	98
Dual II Magnum	7.64	L	1.33 pt/a	PRE	A						
Linex	4	L	1 pt/a	PRE	A						
Flexstar	1.88	L	1 pt/a	POST	B						
COC		L	1 % v/v	POST	B						
AMS		WG	2.5 lb/a	POST	B						
12 Canopy	75	WG	2.25 oz/a	PRE	A	91		33	98	99	99
Prefix	5.29	L	2 pt/a	PRE	A						
Cobra	2	L	8 fl oz/a	POST	B						
Resource	0.86	L	4 fl oz/a	POST	B						
SelectMax	0.97	L	12 fl oz/a	POST	B						
COC		L	0.5 % v/v	POST	B						
AMS		WG	2.5 lb/a	POST	B						
13 Optill Pro - OpTill	68	WG	2 oz/a	PRE	A	99		28	98	99	98
OpTill Pro - Outlook	6	L	10 fl oz/a	PRE	A						
Outlook	6	L	8 fl oz/a	PRE	A						
Metribuzin	75	WG	5 oz/a	PRE	A						
Cobra	2	L	8 fl oz/a	POST	B						
COC		L	0.5 % v/v	POST	B						
AMS		WG	2.5 lb/a	POST	B						
14 Untreated						0		0	0	0	0
15 Authority MTZ	45	WG	13 oz/a	PRE	A	99		17	99	99	99
Command 3ME	3	L	24 fl oz/a	PRE	A						
Flexstar	1.88	L	1 pt/a	POST	B						
COC		L	1 % v/v	POST	B						
AMS		WG	2.5 lb/a	POST	B						
16 Authority MTZ	45	WG	13 oz/a	PRE	A	91		21	99	99	98
Dual II Magnum	7.64	L	1 pt/a	PRE	A						
Flexstar	1.88	L	1 pt/a	POST	B						
SelectMax	0.97	L	9 fl oz/a	POST	B						
COC		L	1 % v/v	POST	B						
AMS		WG	2.5 lb/a	POST	B						
17 Authority MTZ	45	WG	16 oz/a	PRE	A	96		21	99	99	99
Flexstar	1.88	L	1 pt/a	POST	B						
SelectMax	0.97	L	9 fl oz/a	POST	B						
COC		L	1 % v/v	POST	B						
AMS		WG	2.5 lb/a	POST	B						
18 Authority MTZ	45	WG	16 oz/a	PRE	A	86		33	95	99	93
Marvel	3	L	7.25 fl oz/a	POST	B						
SelectMax	0.97	L	9 fl oz/a	POST	B						
COC		L	1 % v/v	POST	B						
AMS		WG	2.5 lb/a	POST	B						
19 Weed-free						99		0	99	99	99
LSD (P=.05)							8.9	7.1	4.3	0.0	2.8
CV							6.81	23.52	3.3	0.0	2.12

MSU Weed Science Research Program

Weed Code	ABUTH	GLXMA	ANGR	CHEAL	AMAPO
Crop Code					
Rating Data Type	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Rating Date	Jun/26/2013	Jul/03/2013	Jul/03/2013	Jul/03/2013	Jul/03/2013
Trt-Eval Interval	7 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	Valor	51	WG	2.5	oz/a	PRE	A	99	4	99	99	99
	Prowl H2O	3.8	L	2	pt/a	PRE	A					
	Flexstar	1.88	L	1	pt/a	POST	B					
	SelectMax	0.97	L	12	fl oz/a	POST	B					
	COC		L	1	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
2	Valor	51	WG	2.5	oz/a	PRE	A	99	6	99	98	99
	Zidua	85	WG	2.5	oz/a	PRE	A					
	Cobra	2	L	8	fl oz/a	POST	B					
	SelectMax	0.97	L	12	fl oz/a	POST	B					
	COC		L	0.5	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
3	Valor XLT	40.3	WG	4	oz/a	PRE	A	99	5	95	99	99
	Metribuzin	75	WG	4	oz/a	PRE	A					
	Flexstar	1.88	L	1	pt/a	POST	B					
	SelectMax	0.97	L	12	fl oz/a	POST	B					
	COC		L	1	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
4	Valor XLT	40.3	WG	4	oz/a	PRE	A	99	10	94	99	99
	Zidua	85	WG	2.5	oz/a	PRE	A					
	Flexstar	1.88	L	1	pt/a	POST	B					
	COC		L	1	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
5	Envive (3.5 oz/A)							99	8	99	99	99
	Classic (Premix)	25	WG	1.28	oz/a	PRE	A					
	Harmony SG (Premix)	50	WG	0.192	oz/a	PRE	A					
	Valor (Premix)	51	WG	2	oz/a	PRE	A					
	Prowl H2O	3.8	L	2	pt/a	PRE	A					
	Cobra	2	L	8	fl oz/a	POST	B					
	SelectMax	0.97	L	12	fl oz/a	POST	B					
	COC		L	0.5	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
6	Canopy	75	WG	2.25	oz/a	PRE	A	99	5	99	99	99
	Valor	51	WG	2	oz/a	PRE	A					
	Sencor	75	WG	2	oz/a	PRE	A					
	Prowl H2O	3.8	L	2	pt/a	PRE	A					
	Flexstar	1.88	L	1	pt/a	POST	B					
	SelectMax	0.97	L	12	fl oz/a	POST	B					
	COC		L	1	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
7	Trivence (8 oz/A)							99	6	99	99	99
	Classic (Premix)	25	WG	1.25	oz/a	PRE	A					
	Metribuzin (Premix)	75	WG	4.75	oz/a	PRE	A					
	Valor (Premix)	51	WG	2	oz/a	PRE	A					
	Zidua	85	WG	2.5	oz/a	PRE	A					
	Flexstar	1.88	L	12	fl oz/a	POST	B					
	COC		L	1	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
8	Boundary	6.5	L	2.4	pt/a	PRE	A	99	4	99	99	99
	Flexstar	1.88	L	1	pt/a	POST	B					
	COC		L	1	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					

MSU Weed Science Research Program

Weed Code							ABUTH		ANGR	CHEAL	AMAPO
Crop Code								GLXMA			
Rating Data Type							control	injury	control	control	control
Rating Unit							percent	percent	percent	percent	percent
Rating Date							Jun/26/2013	Jul/03/2013	Jul/03/2013	Jul/03/2013	Jul/03/2013
Trt-Eval Interval							7 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
# Subsamples, Dec.							0	0	0	0	0
Trt Treatment	Form	Form	Rate	Grow	Appl						
No. Name	Conc	Type	Unit	Stg	Code						
9 Python	80	WG	0.8 oz/a	PRE	A	99		5	94	99	99
Boundary	6.5	L	2 pt/a	PRE	A						
Cobra	2	L	8 fl oz/a	POST	B						
COC		L	0.5 % v/v	POST	B						
AMS		WG	2.5 lb/a	POST	B						
10 Authority XL	70	WG	3.2 oz/a	PRE	A	99		10	94	99	99
Boundary	6.5	L	2 pt/a	PRE	A						
Cobra	2	L	8 fl oz/a	POST	B						
COC		L	0.5 % v/v	POST	B						
AMS		WG	2.5 lb/a	POST	B						
11 Metribuzin	75	WG	5 oz/a	PRE	A	99		3	98	99	99
Dual II Magnum	7.64	L	1.33 pt/a	PRE	A						
Linex	4	L	1 pt/a	PRE	A						
Flexstar	1.88	L	1 pt/a	POST	B						
COC		L	1 % v/v	POST	B						
AMS		WG	2.5 lb/a	POST	B						
12 Canopy	75	WG	2.25 oz/a	PRE	A	98		10	99	99	99
Prefix	5.29	L	2 pt/a	PRE	A						
Cobra	2	L	8 fl oz/a	POST	B						
Resource	0.86	L	4 fl oz/a	POST	B						
SelectMax	0.97	L	12 fl oz/a	POST	B						
COC		L	0.5 % v/v	POST	B						
AMS		WG	2.5 lb/a	POST	B						
13 Optill Pro - OpTill	68	WG	2 oz/a	PRE	A	99		6	97	99	99
OpTill Pro - Outlook	6	L	10 fl oz/a	PRE	A						
Outlook	6	L	8 fl oz/a	PRE	A						
Metribuzin	75	WG	5 oz/a	PRE	A						
Cobra	2	L	8 fl oz/a	POST	B						
COC		L	0.5 % v/v	POST	B						
AMS		WG	2.5 lb/a	POST	B						
14 Untreated						0		0	0	0	0
15 Authority MTZ	45	WG	13 oz/a	PRE	A	99		4	99	99	99
Command 3ME	3	L	24 fl oz/a	PRE	A						
Flexstar	1.88	L	1 pt/a	POST	B						
COC		L	1 % v/v	POST	B						
AMS		WG	2.5 lb/a	POST	B						
16 Authority MTZ	45	WG	13 oz/a	PRE	A	99		4	99	99	99
Dual II Magnum	7.64	L	1 pt/a	PRE	A						
Flexstar	1.88	L	1 pt/a	POST	B						
SelectMax	0.97	L	9 fl oz/a	POST	B						
COC		L	1 % v/v	POST	B						
AMS		WG	2.5 lb/a	POST	B						
17 Authority MTZ	45	WG	16 oz/a	PRE	A	99		4	99	99	99
Flexstar	1.88	L	1 pt/a	POST	B						
SelectMax	0.97	L	9 fl oz/a	POST	B						
COC		L	1 % v/v	POST	B						
AMS		WG	2.5 lb/a	POST	B						
18 Authority MTZ	45	WG	16 oz/a	PRE	A	99		13	94	99	99
Marvel	3	L	7.25 fl oz/a	POST	B						
SelectMax	0.97	L	9 fl oz/a	POST	B						
COC		L	1 % v/v	POST	B						
AMS		WG	2.5 lb/a	POST	B						
19 Weed-free						99		0	99	99	99
LSD (P=.05)							0.6	4.2	3.3	1.0	0.0
CV							0.49	55.32	2.51	0.73	0.0

MSU Weed Science Research Program

Weed Code	AMBEL	ABUTH	GLXMA	ANGR	CHEAL
Crop Code					
Rating Data Type	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent
Rating Date	Jul/03/2013	Jul/03/2013	Jul/17/2013	Jul/17/2013	Jul/17/2013
Trt-Eval Interval	14 DA-B	14 DA-B	28 DA-B	28 DA-B	28 DA-B
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	AMBEL	ABUTH	GLXMA	ANGR	CHEAL	
1	Valor	51	WG	2.5	oz/a	PRE	A	99	99	0	99	99	
	Prowl H2O	3.8	L	2	pt/a	PRE	A						
	Flexstar	1.88	L	1	pt/a	POST	B						
	SelectMax	0.97	L	12	fl oz/a	POST	B						
	COC		L	1	% v/v	POST	B						
	AMS		WG	2.5	lb/a	POST	B						
2	Valor	51	WG	2.5	oz/a	PRE	A	99	99	0	98	98	
	Zidua	85	WG	2.5	oz/a	PRE	A						
	Cobra	2	L	8	fl oz/a	POST	B						
	SelectMax	0.97	L	12	fl oz/a	POST	B						
	COC		L	0.5	% v/v	POST	B						
	AMS		WG	2.5	lb/a	POST	B						
3	Valor XLT	40.3	WG	4	oz/a	PRE	A	99	98	0	97	99	
	Metribuzin	75	WG	4	oz/a	PRE	A						
	Flexstar	1.88	L	1	pt/a	POST	B						
	SelectMax	0.97	L	12	fl oz/a	POST	B						
	COC		L	1	% v/v	POST	B						
	AMS		WG	2.5	lb/a	POST	B						
4	Valor XLT	40.3	WG	4	oz/a	PRE	A	99	99	3	94	99	
	Zidua	85	WG	2.5	oz/a	PRE	A						
	Flexstar	1.88	L	1	pt/a	POST	B						
	COC		L	1	% v/v	POST	B						
	AMS		WG	2.5	lb/a	POST	B						
	Envive (3.5 oz/A)							99	99	0	92	99	
5	Classic (Premix)	25	WG	1.28	oz/a	PRE	A						
	Harmony SG (Premix)	50	WG	0.192	oz/a	PRE	A						
	Valor (Premix)	51	WG	2	oz/a	PRE	A						
	Prowl H2O	3.8	L	2	pt/a	PRE	A						
	Cobra	2	L	8	fl oz/a	POST	B						
	SelectMax	0.97	L	12	fl oz/a	POST	B						
	COC		L	0.5	% v/v	POST	B						
	AMS		WG	2.5	lb/a	POST	B						
	6	Canopy	75	WG	2.25	oz/a	PRE	A	99	99	0	98	99
		Valor	51	WG	2	oz/a	PRE	A					
		Sencor	75	WG	2	oz/a	PRE	A					
Prowl H2O		3.8	L	2	pt/a	PRE	A						
Flexstar		1.88	L	1	pt/a	POST	B						
SelectMax		0.97	L	12	fl oz/a	POST	B						
COC			L	1	% v/v	POST	B						
AMS			WG	2.5	lb/a	POST	B						
7		Trivence (8 oz/A)							99	99	1	98	99
		Classic (Premix)	25	WG	1.25	oz/a	PRE	A					
		Metribuzin (Premix)	75	WG	4.75	oz/a	PRE	A					
	Valor (Premix)	51	WG	2	oz/a	PRE	A						
	Zidua	85	WG	2.5	oz/a	PRE	A						
	Flexstar	1.88	L	12	fl oz/a	POST	B						
	COC		L	1	% v/v	POST	B						
	AMS		WG	2.5	lb/a	POST	B						
	8	Boundary	6.5	L	2.4	pt/a	PRE	A	99	99	0	98	99
		Flexstar	1.88	L	1	pt/a	POST	B					
		COC		L	1	% v/v	POST	B					
AMS			WG	2.5	lb/a	POST	B						

MSU Weed Science Research Program

Weed Code							AMBEL	ABUTH	GLXMA	ANGR	CHEAL
Crop Code							control	control	injury	control	control
Rating Data Type							percent	percent	percent	percent	percent
Rating Unit							Jul/03/2013	Jul/03/2013	Jul/17/2013	Jul/17/2013	Jul/17/2013
Rating Date							14 DA-B	14 DA-B	28 DA-B	28 DA-B	28 DA-B
Trt-Eval Interval							0	0	0	0	0
# Subsamples, Dec.											
Trt	Treatment	Form	Form	Rate	Grow	Appl					
No.	Name	Conc	Type	Rate	Unit	Stg	Code				
9	Python	80	WG	0.8	oz/a	PRE	A	99	99	0	92
	Boundary	6.5	L	2	pt/a	PRE	A				99
	Cobra	2	L	8	fl oz/a	POST	B				
	COC		L	0.5	% v/v	POST	B				
	AMS		WG	2.5	lb/a	POST	B				
10	Authority XL	70	WG	3.2	oz/a	PRE	A	99	99	0	93
	Boundary	6.5	L	2	pt/a	PRE	A				99
	Cobra	2	L	8	fl oz/a	POST	B				
	COC		L	0.5	% v/v	POST	B				
	AMS		WG	2.5	lb/a	POST	B				
11	Metribuzin	75	WG	5	oz/a	PRE	A	98	99	0	98
	Dual II Magnum	7.64	L	1.33	pt/a	PRE	A				99
	Linex	4	L	1	pt/a	PRE	A				
	Flexstar	1.88	L	1	pt/a	POST	B				
	COC		L	1	% v/v	POST	B				
	AMS		WG	2.5	lb/a	POST	B				
12	Canopy	75	WG	2.25	oz/a	PRE	A	99	98	0	96
	Prefix	5.29	L	2	pt/a	PRE	A				99
	Cobra	2	L	8	fl oz/a	POST	B				
	Resource	0.86	L	4	fl oz/a	POST	B				
	SelectMax	0.97	L	12	fl oz/a	POST	B				
	COC		L	0.5	% v/v	POST	B				
	AMS		WG	2.5	lb/a	POST	B				
13	Optill Pro - OpTill	68	WG	2	oz/a	PRE	A	99	99	0	97
	OpTill Pro - Outlook	6	L	10	fl oz/a	PRE	A				99
	Outlook	6	L	8	fl oz/a	PRE	A				
	Metribuzin	75	WG	5	oz/a	PRE	A				
	Cobra	2	L	8	fl oz/a	POST	B				
	COC		L	0.5	% v/v	POST	B				
	AMS		WG	2.5	lb/a	POST	B				
14	Untreated							0	0	0	0
15	Authority MTZ	45	WG	13	oz/a	PRE	A	99	99	0	99
	Command 3ME	3	L	24	fl oz/a	PRE	A				99
	Flexstar	1.88	L	1	pt/a	POST	B				
	COC		L	1	% v/v	POST	B				
	AMS		WG	2.5	lb/a	POST	B				
16	Authority MTZ	45	WG	13	oz/a	PRE	A	98	99	0	97
	Dual II Magnum	7.64	L	1	pt/a	PRE	A				99
	Flexstar	1.88	L	1	pt/a	POST	B				
	SelectMax	0.97	L	9	fl oz/a	POST	B				
	COC		L	1	% v/v	POST	B				
	AMS		WG	2.5	lb/a	POST	B				
17	Authority MTZ	45	WG	16	oz/a	PRE	A	99	99	0	99
	Flexstar	1.88	L	1	pt/a	POST	B				
	SelectMax	0.97	L	9	fl oz/a	POST	B				
	COC		L	1	% v/v	POST	B				
	AMS		WG	2.5	lb/a	POST	B				
18	Authority MTZ	45	WG	16	oz/a	PRE	A	90	99	1	97
	Marvel	3	L	7.25	fl oz/a	POST	B				99
	SelectMax	0.97	L	9	fl oz/a	POST	B				
	COC		L	1	% v/v	POST	B				
	AMS		WG	2.5	lb/a	POST	B				
19	Weed-free							99	99	0	99
LSD (P=.05)								1.5	0.7	1.5	3.5
CV								1.12	0.55	400.12	2.72

MSU Weed Science Research Program

Weed Code	AMAPO	AMBEL	ABUTH	GLXMA	GLXMA							
Crop Code				moisture	yield							
Rating Data Type	control	control	control	percent	bu/acre							
Rating Unit	percent	percent	percent									
Rating Date	Jul/17/2013	Jul/17/2013	Jul/17/2013	Oct/11/2013	Oct/11/2013							
Trt-Eval Interval	28 DA-B	28 DA-B	28 DA-B	156 DA-A	at 13% M							
# Subsamples, Dec.	0	0	0	1	1							
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Grow Stg	Appl Code					
1	Valor	51	WG	2.5	oz/a	PRE	A	99	99	99	10.7	70.0
	Prowl H2O	3.8	L	2	pt/a	PRE	A					
	Flexstar	1.88	L	1	pt/a	POST	B					
	SelectMax	0.97	L	12	fl oz/a	POST	B					
	COC		L	1	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
2	Valor	51	WG	2.5	oz/a	PRE	A	99	98	99	10.8	64.2
	Zidua	85	WG	2.5	oz/a	PRE	A					
	Cobra	2	L	8	fl oz/a	POST	B					
	SelectMax	0.97	L	12	fl oz/a	POST	B					
	COC		L	0.5	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
3	Valor XLT	40.3	WG	4	oz/a	PRE	A	99	99	99	10.8	75.8
	Metribuzin	75	WG	4	oz/a	PRE	A					
	Flexstar	1.88	L	1	pt/a	POST	B					
	SelectMax	0.97	L	12	fl oz/a	POST	B					
	COC		L	1	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
4	Valor XLT	40.3	WG	4	oz/a	PRE	A	99	99	99	10.6	61.4
	Zidua	85	WG	2.5	oz/a	PRE	A					
	Flexstar	1.88	L	1	pt/a	POST	B					
	COC		L	1	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
5	Envive (3.5 oz/A)							99	97	98	10.8	73.4
	Classic (Premix)	25	WG	1.28	oz/a	PRE	A					
	Harmony SG (Premix)	50	WG	0.192	oz/a	PRE	A					
	Valor (Premix)	51	WG	2	oz/a	PRE	A					
	Prowl H2O	3.8	L	2	pt/a	PRE	A					
	Cobra	2	L	8	fl oz/a	POST	B					
	SelectMax	0.97	L	12	fl oz/a	POST	B					
	COC		L	0.5	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
6	Canopy	75	WG	2.25	oz/a	PRE	A	99	99	99	10.9	68.2
	Valor	51	WG	2	oz/a	PRE	A					
	Sencor	75	WG	2	oz/a	PRE	A					
	Prowl H2O	3.8	L	2	pt/a	PRE	A					
	Flexstar	1.88	L	1	pt/a	POST	B					
	SelectMax	0.97	L	12	fl oz/a	POST	B					
	COC		L	1	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
7	Trivence (8 oz/A)							99	99	99	10.6	73.0
	Classic (Premix)	25	WG	1.25	oz/a	PRE	A					
	Metribuzin (Premix)	75	WG	4.75	oz/a	PRE	A					
	Valor (Premix)	51	WG	2	oz/a	PRE	A					
	Zidua	85	WG	2.5	oz/a	PRE	A					
	Flexstar	1.88	L	12	fl oz/a	POST	B					
	COC		L	1	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					
8	Boundary	6.5	L	2.4	pt/a	PRE	A	99	99	99	10.7	62.4
	Flexstar	1.88	L	1	pt/a	POST	B					
	COC		L	1	% v/v	POST	B					
	AMS		WG	2.5	lb/a	POST	B					

MSU Weed Science Research Program

Weed Code	AMAPO	AMBEL	ABUTH	GLXMA	GLXMA
Crop Code				moisture	yield
Rating Data Type	control	control	control	percent	bu/acre
Rating Unit	percent	percent	percent		
Rating Date	Jul/17/2013	Jul/17/2013	Jul/17/2013	Oct/11/2013	Oct/11/2013
Trt-Eval Interval	28 DA-B	28 DA-B	28 DA-B	156 DA-A	at 13% M
# Subsamples, Dec.	0	0	0	1	1
Trt Treatment	Form	Form	Rate	Grow	Appl
No. Name	Conc	Type	Rate	Unit	Stg Code
9 Python	80	WG	0.8	oz/a	PRE A
Boundary	6.5	L	2	pt/a	PRE A
Cobra	2	L	8	fl oz/a	POST B
COC		L	0.5	% v/v	POST B
AMS		WG	2.5	lb/a	POST B
10 Authority XL	70	WG	3.2	oz/a	PRE A
Boundary	6.5	L	2	pt/a	PRE A
Cobra	2	L	8	fl oz/a	POST B
COC		L	0.5	% v/v	POST B
AMS		WG	2.5	lb/a	POST B
11 Metribuzin	75	WG	5	oz/a	PRE A
Dual II Magnum	7.64	L	1.33	pt/a	PRE A
Linex	4	L	1	pt/a	PRE A
Flexstar	1.88	L	1	pt/a	POST B
COC		L	1	% v/v	POST B
AMS		WG	2.5	lb/a	POST B
12 Canopy	75	WG	2.25	oz/a	PRE A
Prefix	5.29	L	2	pt/a	PRE A
Cobra	2	L	8	fl oz/a	POST B
Resource	0.86	L	4	fl oz/a	POST B
SelectMax	0.97	L	12	fl oz/a	POST B
COC		L	0.5	% v/v	POST B
AMS		WG	2.5	lb/a	POST B
13 Optill Pro - OpTill	68	WG	2	oz/a	PRE A
OpTill Pro - Outlook	6	L	10	fl oz/a	PRE A
Outlook	6	L	8	fl oz/a	PRE A
Metribuzin	75	WG	5	oz/a	PRE A
Cobra	2	L	8	fl oz/a	POST B
COC		L	0.5	% v/v	POST B
AMS		WG	2.5	lb/a	POST B
14 Untreated					
15 Authority MTZ	45	WG	13	oz/a	PRE A
Command 3ME	3	L	24	fl oz/a	PRE A
Flexstar	1.88	L	1	pt/a	POST B
COC		L	1	% v/v	POST B
AMS		WG	2.5	lb/a	POST B
16 Authority MTZ	45	WG	13	oz/a	PRE A
Dual II Magnum	7.64	L	1	pt/a	PRE A
Flexstar	1.88	L	1	pt/a	POST B
SelectMax	0.97	L	9	fl oz/a	POST B
COC		L	1	% v/v	POST B
AMS		WG	2.5	lb/a	POST B
17 Authority MTZ	45	WG	16	oz/a	PRE A
Flexstar	1.88	L	1	pt/a	POST B
SelectMax	0.97	L	9	fl oz/a	POST B
COC		L	1	% v/v	POST B
AMS		WG	2.5	lb/a	POST B
18 Authority MTZ	45	WG	16	oz/a	PRE A
Marvel	3	L	7.25	fl oz/a	POST B
SelectMax	0.97	L	9	fl oz/a	POST B
COC		L	1	% v/v	POST B
AMS		WG	2.5	lb/a	POST B
19 Weed-free					
LSD (P=.05)	0.0				
CV	0.0				