

MSU Weed Science Research Program

Instigate weed control programs in corn

Trial ID: C11-13 Study Dir.: Sprague, Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

Date Planted: May/06/2013 **Row Spacing:** 30 IN
Variety: P9807 **No. of Reps:** 4
Population: 32,000 seeds/A **% OM:** 3.4
Soil Type: Loam **pH:** 6.5
Plot Size: 10 X 30 FT **Design:** RANDOMIZED COMPLETE BLOCK

Tillage: Fall chisel, spring soil finish x2
Fertilizer: 300 lb urea broadcast, 150 lb 19-19-19 starter

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.	ZEAMX	CORN, FIELD	

Application Description

	A	B
Application Timing:	PRE	POST
Date Treated:	May/07/2013	Jun/15/2013
Time Treated:	12:15 PM	12:00 PM
% Cloud Cover:	20	100
Air Temp., Unit:	72 F	74 F
% Relative Humidity:	39	52
Wind Speed/Unit/Dir:	3 mph E	4 mph SW
Soil Temp., Unit:	62 F	68 F
Soil/Leaf Surface M:	3 -	2 5
Soil Moist (1=w 5=d):	3	2

Crop Stage at Each Application

	A	B
Crop Name:	ZEAMX	ZEAMX
Height (In.):	-	14-16"
Stage (L):	-	V5

Weed Stage at Each Application

	A	B
Weed 1 Name:	ANGR	ANGR
Height (In.):	-	4"
Stage (L):	-	3
Weed 2 Name:	CHEAL	CHEAL
Height (In.):	-	2"
Stage (L):	-	10
Weed 3 Name:	AMAPO	AMAPO
Height (In.):	-	2"
Stage (L):	-	10
Weed 4 Name:	AMBEL	AMBEL
Height (In.):	-	1.5"
Stage (L):	-	6
Weed 5 Name:	ABUTH	ABUTH
Height (In.):	-	2"
Stage (L):	-	5

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:	2	3	1	3	<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	29"	20"	100"	19	water	30	

Comments: Application 'C' (LP0S) were not made due to rapid corn growth.

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Instigate weed control programs in corn

Trial ID: C11-13 Study Dir.: Sprague, Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

Weed Code	ZEAMX	ANGR	CHEAL	AMAPO
Crop Code	injury	control	control	control
Rating Data Type	percent	percent	percent	percent
Rating Unit	Jun/14/2013	Jun/14/2013	Jun/14/2013	Jun/14/2013
Rating Date	38 DA-A	38 DA-A	38 DA-A	38 DA-A
Trt-Eval Interval	0	0	0	0
# Subsamples, Dec.				

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code				
1	Instigate (6 oz)							0	90	92	97
	Rimsulfuron (Premix)	25	WG	1	oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5	oz/a	PRE	A				
	Realm Q (4 oz)										
	Rimsulfuron (Premix)	25	WG	1.2	oz/a	POST	B				
	Mesotrione dry (Premix)	50	WG	2.5	oz/a	POST	B				
	Isoxadifen-ethyl (Premix)	50	WG	0.3	oz/a	POST	B				
	Abundit Extra	3	SL	1	qt/a	POST	B				
	AMS		WG	17	lb/100 gal	POST	B				
2	Instigate (6 oz)							0	97	99	99
	Rimsulfuron (Premix)	25	WG	1	oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5	oz/a	PRE	A				
	Breakfree ATZ Lite (3 pt)										
	Breakfree (Premix)	6.4	L	1.88	pt/a	PRE	A				
	AAtrex (Premix)	4	L	1.13	pt/a	PRE	A				
	Abundit Extra	3	SL	1	qt/a	POST	B				
	AMS		WG	17	lb/100 gal	POST	B				
3	Instigate (6 oz)							0	98	98	99
	Rimsulfuron (Premix)	25	WG	1	oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5	oz/a	PRE	A				
	Breakfree	6.4	L	1.25	pt/a	PRE	A				
	Abundit Extra	3	SL	1	qt/a	POST	B				
	AMS		WG	17	lb/100 gal	POST	B				
4	Instigate (6 oz)							0	98	96	99
	Rimsulfuron (Premix)	25	WG	1	oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5	oz/a	PRE	A				
	Breakfree	6.4	L	2.25	pt/a	PRE	A				
	Abundit Extra	3	SL	1	qt/a	POST	B				
	AMS		WG	17	lb/100 gal	POST	B				
5	Instigate (6 oz)							0	97	99	99
	Rimsulfuron (Premix)	25	WG	1	oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5	oz/a	PRE	A				
	Cinch ATZ Lite	6	L	3	pt/a	PRE	A				
	Abundit Extra	3	SL	1	qt/a	POST	B				
	AMS		WG	17	lb/100 gal	POST	B				
6	Instigate (6 oz)							0	94	97	98
	Rimsulfuron (Premix)	25	WG	1	oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5	oz/a	PRE	A				
	Cinch	7.64	L	1	pt/a	PRE	A				
	Abundit Extra	3	SL	1	qt/a	POST	B				
	AMS		WG	17	lb/100 gal	POST	B				
7	Untreated							0	0	0	0
8	Realm Q (4 oz)										
	Rimsulfuron (Premix)	25	WG	1.2	oz/a	POST	B				
	Mesotrione dry (Premix)	50	WG	2.5	oz/a	POST	B				
	Isoxadifen-ethyl (Premix)	50	WG	0.3	oz/a	POST	B				
	Abundit Extra	3	SL	1	qt/a	POST	B				
	AMS		WG	17	lb/100 gal	POST	B				

MSU Weed Science Research Program

Weed Code										
Crop Code										
Rating Data Type										
Rating Unit										
Rating Date										
Trt-Eval Interval										
# Subsamples, Dec.										
Trt	Treatment	Form	Form	Rate	Grow	Appl				
No.	Name	Conc	Type	Rate	Unit	Stg	Code			
9	Abundit Extra	3	SL	1	qt/a	POST	B			
	AMS		WG	17	lb/100 gal	POST	B			
	Abundit Extra	3	SL	1	qt/a	LPOS	C			
	AMS		WG	17	lb/100 gal	LPOS	C			
10	Lumax EZ	3.67	L	2.7	qt/a	PRE	A	0	98	99
	Abundit Extra	3	SL	1	qt/a	POST	B			
	AMS		WG	17	lb/100 gal	POST	B			
LSD (P=.05)								0.0	4.4	5.8
CV								0.0	3.57	4.68

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

MSU Weed Science Research Program

Weed Code						AMBEL	ABUTH	ZEAMX	ANGR	
Crop Code										
Rating Data Type						control	control	injury	control	
Rating Unit						percent	percent	percent	percent	
Rating Date						Jun/14/2013	Jun/14/2013	Jun/22/2013	Jun/22/2013	
Trt-Eval Interval						38 DA-A	38 DA-A	7 DA-B	7 DA-B	
# Subsamples, Dec.						0	0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code				
1	Instigate (6 oz)						97	99	0	99
	Rimsulfuron (Premix)	25	WG	1 oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5 oz/a	PRE	A				
	Realm Q (4 oz)									
	Rimsulfuron (Premix)	25	WG	1.2 oz/a	POST	B				
	Mesotrione dry (Premix)	50	WG	2.5 oz/a	POST	B				
	Isoxadifen-ethyl (Premix)	50	WG	0.3 oz/a	POST	B				
	Abundit Extra	3	SL	1 qt/a	POST	B				
	AMS		WG	17 lb/100 gal	POST	B				
2	Instigate (6 oz)						99	99	0	99
	Rimsulfuron (Premix)	25	WG	1 oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5 oz/a	PRE	A				
	Breakfree ATZ Lite (3 pt)									
	Breakfree (Premix)	6.4	L	1.88 pt/a	PRE	A				
	AAtrex (Premix)	4	L	1.13 pt/a	PRE	A				
	Abundit Extra	3	SL	1 qt/a	POST	B				
	AMS		WG	17 lb/100 gal	POST	B				
3	Instigate (6 oz)						99	99	0	99
	Rimsulfuron (Premix)	25	WG	1 oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5 oz/a	PRE	A				
	Breakfree	6.4	L	1.25 pt/a	PRE	A				
	Abundit Extra	3	SL	1 qt/a	POST	B				
	AMS		WG	17 lb/100 gal	POST	B				
4	Instigate (6 oz)						99	99	0	99
	Rimsulfuron (Premix)	25	WG	1 oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5 oz/a	PRE	A				
	Breakfree	6.4	L	2.25 pt/a	PRE	A				
	Abundit Extra	3	SL	1 qt/a	POST	B				
	AMS		WG	17 lb/100 gal	POST	B				
5	Instigate (6 oz)						99	99	0	99
	Rimsulfuron (Premix)	25	WG	1 oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5 oz/a	PRE	A				
	Cinch ATZ Lite	6	L	3 pt/a	PRE	A				
	Abundit Extra	3	SL	1 qt/a	POST	B				
	AMS		WG	17 lb/100 gal	POST	B				
6	Instigate (6 oz)						97	99	0	99
	Rimsulfuron (Premix)	25	WG	1 oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5 oz/a	PRE	A				
	Cinch	7.64	L	1 pt/a	PRE	A				
	Abundit Extra	3	SL	1 qt/a	POST	B				
	AMS		WG	17 lb/100 gal	POST	B				
7	Untreated						0	0	0	0
8	Realm Q (4 oz)							0		97
	Rimsulfuron (Premix)	25	WG	1.2 oz/a	POST	B				
	Mesotrione dry (Premix)	50	WG	2.5 oz/a	POST	B				
	Isoxadifen-ethyl (Premix)	50	WG	0.3 oz/a	POST	B				
	Abundit Extra	3	SL	1 qt/a	POST	B				
	AMS		WG	17 lb/100 gal	POST	B				
9	Abundit Extra	3	SL	1 qt/a	POST	B		0		98
	AMS		WG	17 lb/100 gal	POST	B				
	Abundit Extra	3	SL	1 qt/a	LPOS	C				
	AMS		WG	17 lb/100 gal	LPOS	C				

MSU Weed Science Research Program

Weed Code	AMBEL	ABUTH	ZEAMX	ANGR
Crop Code				
Rating Data Type	control	control	injury	control
Rating Unit	percent	percent	percent	percent
Rating Date	Jun/14/2013	Jun/14/2013	Jun/22/2013	Jun/22/2013
Trt-Eval Interval	38 DA-A	38 DA-A	7 DA-B	7 DA-B
# Subsamples, Dec.	0	0	0	0
Trt Treatment	Form	Form	Rate	Grow Appl
No. Name	Conc	Type	Rate Unit	Stg Code
10 Lumax EZ	3.67	L	2.7 qt/a	PRE A 98
Abundit Extra	3	SL	1 qt/a	POST B
AMS		WG	17 lb/100 gal	POST B
LSD (P=.05)	2.3	0.0	0.0	2.3
CV	1.83	0.0	0.0	1.81

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

MSU Weed Science Research Program

Weed Code	CHEAL	AMAPO	AMBEL	ABUTH						
Crop Code										
Rating Data Type	control	control	control	control						
Rating Unit	percent	percent	percent	percent						
Rating Date	Jun/22/2013	Jun/22/2013	Jun/22/2013	Jun/22/2013						
Trt-Eval Interval	7 DA-B	7 DA-B	7 DA-B	7 DA-B						
# Subsamples, Dec.	0	0	0	0						
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code				
1	Instigate (6 oz)						98	99	99	99
	Rimsulfuron (Premix)	25	WG	1 oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5 oz/a	PRE	A				
	Realm Q (4 oz)									
	Rimsulfuron (Premix)	25	WG	1.2 oz/a	POST	B				
	Mesotrione dry (Premix)	50	WG	2.5 oz/a	POST	B				
	Isoxadifen-ethyl (Premix)	50	WG	0.3 oz/a	POST	B				
	Abundit Extra	3	SL	1 qt/a	POST	B				
	AMS		WG	17 lb/100 gal	POST	B				
2	Instigate (6 oz)						99	99	99	99
	Rimsulfuron (Premix)	25	WG	1 oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5 oz/a	PRE	A				
	Breakfree ATZ Lite (3 pt)									
	Breakfree (Premix)	6.4	L	1.88 pt/a	PRE	A				
	AAtrex (Premix)	4	L	1.13 pt/a	PRE	A				
	Abundit Extra	3	SL	1 qt/a	POST	B				
	AMS		WG	17 lb/100 gal	POST	B				
3	Instigate (6 oz)						99	99	99	99
	Rimsulfuron (Premix)	25	WG	1 oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5 oz/a	PRE	A				
	Breakfree	6.4	L	1.25 pt/a	PRE	A				
	Abundit Extra	3	SL	1 qt/a	POST	B				
	AMS		WG	17 lb/100 gal	POST	B				
4	Instigate (6 oz)						99	99	99	99
	Rimsulfuron (Premix)	25	WG	1 oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5 oz/a	PRE	A				
	Breakfree	6.4	L	2.25 pt/a	PRE	A				
	Abundit Extra	3	SL	1 qt/a	POST	B				
	AMS		WG	17 lb/100 gal	POST	B				
5	Instigate (6 oz)						99	99	99	99
	Rimsulfuron (Premix)	25	WG	1 oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5 oz/a	PRE	A				
	Cinch ATZ Lite	6	L	3 pt/a	PRE	A				
	Abundit Extra	3	SL	1 qt/a	POST	B				
	AMS		WG	17 lb/100 gal	POST	B				
6	Instigate (6 oz)						99	99	99	99
	Rimsulfuron (Premix)	25	WG	1 oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5 oz/a	PRE	A				
	Cinch	7.64	L	1 pt/a	PRE	A				
	Abundit Extra	3	SL	1 qt/a	POST	B				
	AMS		WG	17 lb/100 gal	POST	B				
7	Untreated						0	0	0	0
8	Realm Q (4 oz)						86	99	99	99
	Rimsulfuron (Premix)	25	WG	1.2 oz/a	POST	B				
	Mesotrione dry (Premix)	50	WG	2.5 oz/a	POST	B				
	Isoxadifen-ethyl (Premix)	50	WG	0.3 oz/a	POST	B				
	Abundit Extra	3	SL	1 qt/a	POST	B				
	AMS		WG	17 lb/100 gal	POST	B				
9	Abundit Extra	3	SL	1 qt/a	POST	B	90	99	99	99
	AMS		WG	17 lb/100 gal	POST	B				
	Abundit Extra	3	SL	1 qt/a	LPOS	C				
	AMS		WG	17 lb/100 gal	LPOS	C				

MSU Weed Science Research Program

Weed Code	CHEAL	AMAPO	AMBEL	ABUTH
Crop Code				
Rating Data Type	control	control	control	control
Rating Unit	percent	percent	percent	percent
Rating Date	Jun/22/2013	Jun/22/2013	Jun/22/2013	Jun/22/2013
Trt-Eval Interval	7 DA-B	7 DA-B	7 DA-B	7 DA-B
# Subsamples, Dec.	0	0	0	0
Trt Treatment				
No. Name	Form Conc	Form Type	Rate Unit	Grow Stg Appl Code
10 Lumax EZ	3.67 L	2.7	qt/a	PRE A 99
Abundit Extra	3 SL	1	qt/a	POST B
AMS	WG	17	lb/100 gal	POST B
LSD (P=.05)	6.8	0.0	0.0	0.0
CV	5.42	0.0	0.0	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.										
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code				
1	Instigate (6 oz)						0	99	99	99
	Rimsulfuron (Premix)	25	WG	1 oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5 oz/a	PRE	A				
	Realm Q (4 oz)									
	Rimsulfuron (Premix)	25	WG	1.2 oz/a	POST	B				
	Mesotrione dry (Premix)	50	WG	2.5 oz/a	POST	B				
	Isoxadifen-ethyl (Premix)	50	WG	0.3 oz/a	POST	B				
	Abundit Extra	3	SL	1 qt/a	POST	B				
	AMS		WG	17 lb/100 gal	POST	B				
2	Instigate (6 oz)						0	99	99	99
	Rimsulfuron (Premix)	25	WG	1 oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5 oz/a	PRE	A				
	Breakfree ATZ Lite (3 pt)									
	Breakfree (Premix)	6.4	L	1.88 pt/a	PRE	A				
	AAtrex (Premix)	4	L	1.13 pt/a	PRE	A				
	Abundit Extra	3	SL	1 qt/a	POST	B				
	AMS		WG	17 lb/100 gal	POST	B				
3	Instigate (6 oz)						0	99	99	99
	Rimsulfuron (Premix)	25	WG	1 oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5 oz/a	PRE	A				
	Breakfree	6.4	L	1.25 pt/a	PRE	A				
	Abundit Extra	3	SL	1 qt/a	POST	B				
	AMS		WG	17 lb/100 gal	POST	B				
4	Instigate (6 oz)						0	99	99	99
	Rimsulfuron (Premix)	25	WG	1 oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5 oz/a	PRE	A				
	Breakfree	6.4	L	2.25 pt/a	PRE	A				
	Abundit Extra	3	SL	1 qt/a	POST	B				
	AMS		WG	17 lb/100 gal	POST	B				
5	Instigate (6 oz)						0	99	99	99
	Rimsulfuron (Premix)	25	WG	1 oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5 oz/a	PRE	A				
	Cinch ATZ Lite	6	L	3 pt/a	PRE	A				
	Abundit Extra	3	SL	1 qt/a	POST	B				
	AMS		WG	17 lb/100 gal	POST	B				
6	Instigate (6 oz)						0	99	99	99
	Rimsulfuron (Premix)	25	WG	1 oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5 oz/a	PRE	A				
	Cinch	7.64	L	1 pt/a	PRE	A				
	Abundit Extra	3	SL	1 qt/a	POST	B				
	AMS		WG	17 lb/100 gal	POST	B				
7	Untreated						0	0	0	0
8	Realm Q (4 oz)						0	98	90	99
	Rimsulfuron (Premix)	25	WG	1.2 oz/a	POST	B				
	Mesotrione dry (Premix)	50	WG	2.5 oz/a	POST	B				
	Isoxadifen-ethyl (Premix)	50	WG	0.3 oz/a	POST	B				
	Abundit Extra	3	SL	1 qt/a	POST	B				
	AMS		WG	17 lb/100 gal	POST	B				
9	Abundit Extra	3	SL	1 qt/a	POST	B	0	98	92	99
	AMS		WG	17 lb/100 gal	POST	B				
	Abundit Extra	3	SL	1 qt/a	LPOS	C				
	AMS		WG	17 lb/100 gal	LPOS	C				

MSU Weed Science Research Program

Weed Code							ANGR	CHEAL	AMAPO
Crop Code							ZEAMX		
Rating Data Type							injury	control	control
Rating Unit							percent	percent	percent
Rating Date							Jun/28/2013	Jun/28/2013	Jun/28/2013
Trt-Eval Interval							13 DA-B	13 DA-B	13 DA-B
# Subsamples, Dec.							0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
10	Lumax EZ	3.67	L	2.7	qt/a	PRE	A	0	99	99	99
	Abundit Extra	3	SL	1	qt/a	POST	B				
	AMS		WG	17	lb/100 gal	POST	B				
LSD (P=.05)								0.0	1.1	4.1	0.0
CV								0.0	0.86	3.24	0.0

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

MSU Weed Science Research Program

Weed Code						AMBEL	ABUTH	ZEAMX	ANGR
Crop Code						control	control	injury	control
Rating Data Type						percent	percent	percent	percent
Rating Unit						Jun/28/2013	Jun/28/2013	Jul/12/2013	Jul/12/2013
Rating Date						13 DA-B	13 DA-B	27 DA-B	27 DA-B
Trt-Eval Interval						0	0	0	0
# Subsamples, Dec.									
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Grow Stg	Appl Code		
1	Instigate (6 oz)							99	99
	Rimsulfuron (Premix)	25	WG	1	oz/a	PRE	A		
	Mesotrione dry (Premix)	50	WG	5	oz/a	PRE	A		
	Realm Q (4 oz)								
	Rimsulfuron (Premix)	25	WG	1.2	oz/a	POST	B		
	Mesotrione dry (Premix)	50	WG	2.5	oz/a	POST	B		
	Isoxadifen-ethyl (Premix)	50	WG	0.3	oz/a	POST	B		
	Abundit Extra	3	SL	1	qt/a	POST	B		
	AMS		WG	17	lb/100 gal	POST	B		
2	Instigate (6 oz)							99	99
	Rimsulfuron (Premix)	25	WG	1	oz/a	PRE	A		
	Mesotrione dry (Premix)	50	WG	5	oz/a	PRE	A		
	Breakfree ATZ Lite (3 pt)								
	Breakfree (Premix)	6.4	L	1.88	pt/a	PRE	A		
	AAtrex (Premix)	4	L	1.13	pt/a	PRE	A		
	Abundit Extra	3	SL	1	qt/a	POST	B		
	AMS		WG	17	lb/100 gal	POST	B		
3	Instigate (6 oz)							99	99
	Rimsulfuron (Premix)	25	WG	1	oz/a	PRE	A		
	Mesotrione dry (Premix)	50	WG	5	oz/a	PRE	A		
	Breakfree	6.4	L	1.25	pt/a	PRE	A		
	Abundit Extra	3	SL	1	qt/a	POST	B		
	AMS		WG	17	lb/100 gal	POST	B		
4	Instigate (6 oz)							99	99
	Rimsulfuron (Premix)	25	WG	1	oz/a	PRE	A		
	Mesotrione dry (Premix)	50	WG	5	oz/a	PRE	A		
	Breakfree	6.4	L	2.25	pt/a	PRE	A		
	Abundit Extra	3	SL	1	qt/a	POST	B		
	AMS		WG	17	lb/100 gal	POST	B		
5	Instigate (6 oz)							99	99
	Rimsulfuron (Premix)	25	WG	1	oz/a	PRE	A		
	Mesotrione dry (Premix)	50	WG	5	oz/a	PRE	A		
	Cinch ATZ Lite	6	L	3	pt/a	PRE	A		
	Abundit Extra	3	SL	1	qt/a	POST	B		
	AMS		WG	17	lb/100 gal	POST	B		
6	Instigate (6 oz)							99	99
	Rimsulfuron (Premix)	25	WG	1	oz/a	PRE	A		
	Mesotrione dry (Premix)	50	WG	5	oz/a	PRE	A		
	Cinch	7.64	L	1	pt/a	PRE	A		
	Abundit Extra	3	SL	1	qt/a	POST	B		
	AMS		WG	17	lb/100 gal	POST	B		
7	Untreated							0	0
8	Realm Q (4 oz)							99	99
	Rimsulfuron (Premix)	25	WG	1.2	oz/a	POST	B		
	Mesotrione dry (Premix)	50	WG	2.5	oz/a	POST	B		
	Isoxadifen-ethyl (Premix)	50	WG	0.3	oz/a	POST	B		
	Abundit Extra	3	SL	1	qt/a	POST	B		
	AMS		WG	17	lb/100 gal	POST	B		
9	Abundit Extra	3	SL	1	qt/a	POST	B	99	99
	AMS		WG	17	lb/100 gal	POST	B		
	Abundit Extra	3	SL	1	qt/a	LPOS	C		
	AMS		WG	17	lb/100 gal	LPOS	C		

MSU Weed Science Research Program

Weed Code	AMBEL	ABUTH	ZEAMX	ANGR
Crop Code				
Rating Data Type	control	control	injury	control
Rating Unit	percent	percent	percent	percent
Rating Date	Jun/28/2013	Jun/28/2013	Jul/12/2013	Jul/12/2013
Trt-Eval Interval	13 DA-B	13 DA-B	27 DA-B	27 DA-B
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code				
10	Lumax EZ	3.67	L	2.7	qt/a	PRE	A	99		99	
	Abundit Extra	3	SL	1	qt/a	POST	B				
	AMS		WG	17	lb/100 gal	POST	B				
	LSD (P=.05)							0.5	0.0	0.0	0.4
	CV							0.36	0.0	0.0	0.34

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

MSU Weed Science Research Program

Weed Code	CHEAL	AMAPO	AMBEL	ABUTH						
Crop Code										
Rating Data Type	control	control	control	control						
Rating Unit	percent	percent	percent	percent						
Rating Date	Jul/12/2013	Jul/12/2013	Jul/12/2013	Jul/12/2013						
Trt-Eval Interval	27 DA-B	27 DA-B	27 DA-B	27 DA-B						
# Subsamples, Dec.	0	0	0	0						
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code				
1	Instigate (6 oz)						99	99	99	99
	Rimsulfuron (Premix)	25	WG	1 oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5 oz/a	PRE	A				
	Realm Q (4 oz)									
	Rimsulfuron (Premix)	25	WG	1.2 oz/a	POST	B				
	Mesotrione dry (Premix)	50	WG	2.5 oz/a	POST	B				
	Isoxadifen-ethyl (Premix)	50	WG	0.3 oz/a	POST	B				
	Abundit Extra	3	SL	1 qt/a	POST	B				
	AMS		WG	17 lb/100 gal	POST	B				
2	Instigate (6 oz)						99	99	99	99
	Rimsulfuron (Premix)	25	WG	1 oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5 oz/a	PRE	A				
	Breakfree ATZ Lite (3 pt)									
	Breakfree (Premix)	6.4	L	1.88 pt/a	PRE	A				
	AAtrex (Premix)	4	L	1.13 pt/a	PRE	A				
	Abundit Extra	3	SL	1 qt/a	POST	B				
	AMS		WG	17 lb/100 gal	POST	B				
3	Instigate (6 oz)						99	99	99	99
	Rimsulfuron (Premix)	25	WG	1 oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5 oz/a	PRE	A				
	Breakfree	6.4	L	1.25 pt/a	PRE	A				
	Abundit Extra	3	SL	1 qt/a	POST	B				
	AMS		WG	17 lb/100 gal	POST	B				
4	Instigate (6 oz)						99	99	99	99
	Rimsulfuron (Premix)	25	WG	1 oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5 oz/a	PRE	A				
	Breakfree	6.4	L	2.25 pt/a	PRE	A				
	Abundit Extra	3	SL	1 qt/a	POST	B				
	AMS		WG	17 lb/100 gal	POST	B				
5	Instigate (6 oz)						99	99	99	99
	Rimsulfuron (Premix)	25	WG	1 oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5 oz/a	PRE	A				
	Cinch ATZ Lite	6	L	3 pt/a	PRE	A				
	Abundit Extra	3	SL	1 qt/a	POST	B				
	AMS		WG	17 lb/100 gal	POST	B				
6	Instigate (6 oz)						99	99	99	99
	Rimsulfuron (Premix)	25	WG	1 oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5 oz/a	PRE	A				
	Cinch	7.64	L	1 pt/a	PRE	A				
	Abundit Extra	3	SL	1 qt/a	POST	B				
	AMS		WG	17 lb/100 gal	POST	B				
7	Untreated						0	0	0	0
8	Realm Q (4 oz)						99	99	99	99
	Rimsulfuron (Premix)	25	WG	1.2 oz/a	POST	B				
	Mesotrione dry (Premix)	50	WG	2.5 oz/a	POST	B				
	Isoxadifen-ethyl (Premix)	50	WG	0.3 oz/a	POST	B				
	Abundit Extra	3	SL	1 qt/a	POST	B				
	AMS		WG	17 lb/100 gal	POST	B				
9	Abundit Extra	3	SL	1 qt/a	POST	B	95	99	99	99
	AMS		WG	17 lb/100 gal	POST	B				
	Abundit Extra	3	SL	1 qt/a	LPOS	C				
	AMS		WG	17 lb/100 gal	LPOS	C				

MSU Weed Science Research Program

Weed Code	CHEAL	AMAPO	AMBEL	ABUTH
Crop Code				
Rating Data Type	control	control	control	control
Rating Unit	percent	percent	percent	percent
Rating Date	Jul/12/2013	Jul/12/2013	Jul/12/2013	Jul/12/2013
Trt-Eval Interval	27 DA-B	27 DA-B	27 DA-B	27 DA-B
# Subsamples, Dec.	0	0	0	0
Trt Treatment				
No. Name	Form Conc	Form Type	Rate Unit	Grow Stg Appl Code
10 Lumax EZ	3.67 L	2.7	qt/a	PRE A 99
Abundit Extra	3 SL	1	qt/a	POST B
AMS	WG	17	lb/100 gal	POST B
LSD (P=.05)	2.9	0.0	0.3	0.2
CV	2.29	0.0	0.24	0.18

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