

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C01-13 Study Dir.: Sprague, Powell  
 Conducted: Campus C-27 Investigator: Christy Sprague

**Date Planted:** May/06/2013 **Row Spacing:** 30 IN  
**Variety:** DKC 48-12 **No. of Reps:** 4  
**Population:** 32,000 seeds/A **% OM:** 2.8  
**Soil Type:** Sandy clay loam **pH:** 6.5  
**Plot Size:** 10 X 40 FT **Design:** RANDOMIZED COMPLETE BLOCK

**Tillage:** Fall chisel plow, spring soil finished 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	C
<b>Application Timing:</b>	PRE	EPOS	POST
<b>Date Treated:</b>	May/06/2013	Jun/03/2013	Jun/15/2013
<b>Time Treated:</b>	7:00 PM	3:30 PM	2:10 PM
<b>% Cloud Cover:</b>	10	10	100
<b>Air Temp., Unit:</b>	78 F	67 F	78 F
<b>% Relative Humidity:</b>	33	34	56
<b>Wind Speed/Unit/Dir:</b>	6 mph SE	6 mph NW	2 mph SW
<b>Soil Temp., Unit:</b>	66 F	64 F	68 F
<b>Soil/Leaf Surface M:</b>	3 -	3 5	2 5
<b>Soil Moist (1=w 5=d):</b>	3	3	2

**Crop Stage at Each Application**

	A	B	C
<b>Crop Name:</b>	ZEAMX	ZEAMX	ZEAMX
<b>Height (In.):</b>	-	7"	17"
<b>Stage (L):</b>	-	V3-V4	V5

**Weed Stage at Each Application**

	A	B	C
<b>Weed 1 Name:</b>	ANGR	ANGR	ANGR
<b>Height (In.):</b>	-	2"	1"
<b>Stage (L):</b>	-	2	3
<b>Weed 2 Name:</b>	CHEAL	CHEAL	CHEAL
<b>Height (In.):</b>	-	2"	1"
<b>Stage (L):</b>	-	8	4
<b>Weed 3 Name:</b>	AMAPO	AMAPO	AMAPO
<b>Height (In.):</b>	-	2"	.75"
<b>Stage (L):</b>	-	6	5
<b>Weed 4 Name:</b>	AMBEL	AMBEL	AMBEL
<b>Height (In.):</b>	-	1"	1"
<b>Stage (L):</b>	-	4	4
<b>Weed 5 Name:</b>	ABUTH	ABUTH	ABUTH
<b>Height (In.):</b>	-	1"	4"
<b>Stage (L):</b>	-	1	4

**Weed Density (plants/sq. ft.)**

	1	2	3	4	5
<b>Date:</b>	Jul/11/2013	Jul/11/2013	Jul/11/2013	Jul/11/2013	Jul/11/2013
<b>Weed Name:</b>	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
<b>Density:</b>	12	17	1	2	<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	35	
C	Cub	3.8	AIXR	11003	29"	20"	100"	19	water	30	

## MSU Weed Science Research Program

## Comparison of commercial herbicide programs in corn

Trial ID: C01-13  
 Conducted: Campus C-27

Study Dir.: Sprague, Powell  
 Investigator: Christy Sprague

Weed Code									ANGR	CHEAL	AMAPO
Crop Code									ZEAMX		
Rating Data Type									injury	control	control
Rating Unit									percent	percent	percent
Rating Date									Jun/05/2013	Jun/05/2013	Jun/05/2013
Trt-Eval Interval									30 DA-A	30 DA-A	30 DA-A
# Subsamples, Dec.									0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code				
1	Lexar EZ	3.7	L	3	qt/a	PRE	A	0	97	99	99
2	Keystone NXT	5.6	L	2.4	qt/a	PRE	A	0	99	99	99
	Hornet WDG	68.5	WG	3	oz/a	PRE	A				
3	Realm Q (4 oz/A)										
	Rimsulfuron (Premix)	25	WG	1.2	oz/a	EPOS	B				
	Mesotrione dry (Premix)	50	WG	2.5	oz/a	EPOS	B				
	Isoxadifen-ethyl (Premix)	50	WG	0.3	oz/a	EPOS	B				
	AAtrex	4	L	1	qt/a	EPOS	B				
	Abundit Extra	3	SL	32	fl oz/a	EPOS	B				
	AMS		WG	2	lb/a	EPOS	B				
4	Warrant	3	L	3	pt/a	EPOS	B				
	Impact	2.8	L	0.75	fl oz/a	EPOS	B				
	AAtrex	4	L	1	qt/a	EPOS	B				
	Roundup PowerMax	4.5	SL	32	fl oz/a	EPOS	B				
	MSO		L	0.5	% v/v	EPOS	B				
	N-Pak AMS		L	2.5	% v/v	EPOS	B				
5	Zidua	85	WG	2.5	oz/a	EPOS	B				
	Armezon	2.8	L	0.75	fl oz/a	EPOS	B				
	AAtrex	4	L	1.5	qt/a	EPOS	B				
	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
	MSO		L	1	% v/v	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
6	SureStart	4.16	L	2	pt/a	EPOS	B				
	Durango DMA	4	SL	24	fl oz/a	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
7	Halex GT	4.38	L	3.6	pt/a	EPOS	B				
	Surfactant		L	0.25	% v/v	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
8	Capreno	3.45	L	3	fl oz/a	EPOS	B				
	AAtrex	4	L	1	qt/a	EPOS	B				
	COC		L	1	% v/v	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
9	Capreno	3.45	L	3	fl oz/a	EPOS	B				
	AAtrex	4	L	1	qt/a	EPOS	B				
	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
	COC		L	1	% v/v	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
10	Untreated							0	0	0	0
11	Harness Xtra	5.6	L	1.5	qt/a	PRE	A	0	99	99	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
12	Degree Xtra	4	L	2	qt/a	PRE	A	0	94	99	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
13	Anthem ATZ	4.5	L	48	fl oz/a	PRE	A	0	99	99	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	2.5	lb/a	POST	C				
14	Anthem	2.15	L	8	fl oz/a	PRE	A	0	99	99	99
	AAtrex	4	L	1.5	qt/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	2.5	lb/a	POST	C				

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Weed Code								ANGR	CHEAL	AMAPO
Crop Code								ZEAMX		
Rating Data Type								injury	control	control
Rating Unit								percent	percent	percent
Rating Date								Jun/05/2013	Jun/05/2013	Jun/05/2013
Trt-Eval Interval								30 DA-A	30 DA-A	30 DA-A
# Subsamples, Dec.								0	0	0
Trt	Treatment	Form	Form	Rate	Grow	Appl				
No.	Name	Conc	Type	Rate Unit	Stg	Code				
15	SureStart	4.16	L	2 pt/a	PRE	A	0	99	99	99
	Durango DMA	4	SL	24 fl oz/a	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
16	TripleFLEX	4.16	L	1.75 pt/a	PRE	A	0	92	95	99
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	AMS		WG	17 lb/100 gal	POST	C				
17	TripleFLEX	4.16	L	1.75 pt/a	PRE	A	0	98	99	99
	AAtrex	4	L	1 qt/a	PRE	A				
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	AMS		WG	17 lb/100 gal	POST	C				
18	Verdict	5.57	L	15 fl oz/a	PRE	A	0	94	97	99
	Status	56	WG	5 oz/a	POST	C				
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	Surfactant		L	0.25 % v/v	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
19	Zidua	85	WG	2.5 oz/a	PRE	A	0	87	59	99
	Status	56	WG	5 oz/a	POST	C				
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	Surfactant		L	0.25 % v/v	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
20	Zidua	85	WG	2.5 oz/a	PRE	A	0	91	50	99
	Armezon	2.8	L	0.75 fl oz/a	POST	C				
	AAtrex	4	L	1 pt/a	POST	C				
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	MSO		L	1 % v/v	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
21	Dual II Magnum	7.64	L	1.67 pt/a	PRE	A	0	95	21	99
	Laudis	3.5	L	3 fl oz/a	POST	C				
	Clarity	4	L	8 fl oz/a	POST	C				
	MSO		L	1 % v/v	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
22	Harness Xtra	5.6	L	1.6 qt/a	PRE	A	0	98	99	99
	Impact	2.8	L	0.75 fl oz/a	POST	C				
	AAtrex	4	L	1 pt/a	POST	C				
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C				
	MSO		L	0.5 % v/v	POST	C				
	N-Pak AMS		L	2.5 % v/v	POST	C				
23	Bicep II Magnum	5.5	L	1.1 qt/a	PRE	A	0	94	99	99
	Halex GT	4.38	L	3.6 pt/a	POST	C				
	Surfactant		L	0.25 % v/v	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
24	Bicep II Magnum	5.5	L	1.8 qt/a	PRE	A	0	98	99	99
	Laudis	3.5	L	2 fl oz/a	POST	C				
	Liberty	2.34	L	22 fl oz/a	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
25	Instigate (6 oz/A)						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	5.25	L	2.2 qt/a	PRE	A				
	Abundit Extra	3	SL	32 fl oz/a	POST	C				
	AMS		WG	2 lb/a	POST	C				
26	Lexar EZ	3.7	L	1.5 qt/a	PRE	A	0	83	99	99
	Halex GT	4.38	L	3.6 pt/a	POST	C				
	Surfactant		L	0.25 % v/v	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.									
Trt Treatment	Form	Form	Rate	Grow	Appl				
No. Name	Conc	Type	Rate Unit	Stg	Code				
27 Weed-free									
LSD (P=.05)						0.0	7.4	7.7	0.0
CV						0.0	5.78	6.4	0.0

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

## MSU Weed Science Research Program

Weed Code								AMBEL	ABUTH		ANGR
Crop Code								control	control	ZEAMX	control
Rating Data Type								percent	percent	injury	percent
Rating Unit								Jun/05/2013	Jun/05/2013	Jun/15/2013	Jun/15/2013
Rating Date								30 DA-A	30 DA-A	12 DA-B	12 DA-B
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	Lexar EZ	3.7	L	3	qt/a	PRE	A	99	99	0	97
2	Keystone NXT	5.6	L	2.4	qt/a	PRE	A	99	99	0	99
	Hornet WDG	68.5	WG	3	oz/a	PRE	A				
3	Realm Q (4 oz/A)									0	98
	Rimsulfuron (Premix)	25	WG	1.2	oz/a	EPOS	B				
	Mesotrione dry (Premix)	50	WG	2.5	oz/a	EPOS	B				
	Isoxadifen-ethyl (Premix)	50	WG	0.3	oz/a	EPOS	B				
	AAtrex	4	L	1	qt/a	EPOS	B				
	Abundit Extra	3	SL	32	fl oz/a	EPOS	B				
	AMS		WG	2	lb/a	EPOS	B				
4	Warrant	3	L	3	pt/a	EPOS	B			0	98
	Impact	2.8	L	0.75	fl oz/a	EPOS	B				
	AAtrex	4	L	1	qt/a	EPOS	B				
	Roundup PowerMax	4.5	SL	32	fl oz/a	EPOS	B				
	MSO		L	0.5	% v/v	EPOS	B				
	N-Pak AMS		L	2.5	% v/v	EPOS	B				
5	Zidua	85	WG	2.5	oz/a	EPOS	B			5	99
	Armezon	2.8	L	0.75	fl oz/a	EPOS	B				
	AAtrex	4	L	1.5	qt/a	EPOS	B				
	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
	MSO		L	1	% v/v	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
6	SureStart	4.16	L	2	pt/a	EPOS	B			0	99
	Durango DMA	4	SL	24	fl oz/a	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
7	Halex GT	4.38	L	3.6	pt/a	EPOS	B			0	99
	Surfactant		L	0.25	% v/v	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
8	Capreno	3.45	L	3	fl oz/a	EPOS	B			0	99
	AAtrex	4	L	1	qt/a	EPOS	B				
	COC		L	1	% v/v	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
9	Capreno	3.45	L	3	fl oz/a	EPOS	B			0	99
	AAtrex	4	L	1	qt/a	EPOS	B				
	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
	COC		L	1	% v/v	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
10	Untreated							0	0	0	0
11	Harness Xtra	5.6	L	1.5	qt/a	PRE	A	99	80	0	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
12	Degree Xtra	4	L	2	qt/a	PRE	A	99	63	0	95
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
13	Anthem ATZ	4.5	L	48	fl oz/a	PRE	A	99	99	0	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	2.5	lb/a	POST	C				
14	Anthem	2.15	L	8	fl oz/a	PRE	A	99	98	0	99
	AAtrex	4	L	1.5	qt/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	2.5	lb/a	POST	C				
15	SureStart	4.16	L	2	pt/a	PRE	A	99	98	0	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							AMBEL	ABUTH	ZEAMX	ANGR
Crop Code							control	control	injury	control
Rating Data Type							percent	percent	percent	percent
Rating Unit							Jun/05/2013	Jun/05/2013	Jun/15/2013	Jun/15/2013
Rating Date							30 DA-A	30 DA-A	12 DA-B	12 DA-B
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	TripleFLEX	4.16	L	1.75 pt/a	PRE	A	90	91	0	92
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	AMS		WG	17 lb/100 gal	POST	C				
17	TripleFLEX	4.16	L	1.75 pt/a	PRE	A	99	99	0	98
	AAtrex	4	L	1 qt/a	PRE	A				
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	AMS		WG	17 lb/100 gal	POST	C				
18	Verdict	5.57	L	15 fl oz/a	PRE	A	95	99	0	94
	Status	56	WG	5 oz/a	POST	C				
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	Surfactant		L	0.25 % v/v	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
19	Zidua	85	WG	2.5 oz/a	PRE	A	61	80	0	98
	Status	56	WG	5 oz/a	POST	C				
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	Surfactant		L	0.25 % v/v	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
20	Zidua	85	WG	2.5 oz/a	PRE	A	79	81	0	97
	Armezon	2.8	L	0.75 fl oz/a	POST	C				
	AAtrex	4	L	1 pt/a	POST	C				
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	MSO		L	1 % v/v	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
21	Dual II Magnum	7.64	L	1.67 pt/a	PRE	A	0	0	0	98
	Laudis	3.5	L	3 fl oz/a	POST	C				
	Clarity	4	L	8 fl oz/a	POST	C				
	MSO		L	1 % v/v	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
22	Harness Xtra	5.6	L	1.6 qt/a	PRE	A	98	83	0	98
	Impact	2.8	L	0.75 fl oz/a	POST	C				
	AAtrex	4	L	1 pt/a	POST	C				
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C				
	MSO		L	0.5 % v/v	POST	C				
	N-Pak AMS		L	2.5 % v/v	POST	C				
23	Bicep II Magnum	5.5	L	1.1 qt/a	PRE	A	95	90	0	95
	Halex GT	4.38	L	3.6 pt/a	POST	C				
	Surfactant		L	0.25 % v/v	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
24	Bicep II Magnum	5.5	L	1.8 qt/a	PRE	A	98	96	0	99
	Laudis	3.5	L	2 fl oz/a	POST	C				
	Liberty	2.34	L	22 fl oz/a	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
25	Instigate (6 oz/A)						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	5.25	L	2.2 qt/a	PRE	A				
	Abundit Extra	3	SL	32 fl oz/a	POST	C				
	AMS		WG	2 lb/a	POST	C				
26	Lexar EZ	3.7	L	1.5 qt/a	PRE	A	99	99	0	82
	Halex GT	4.38	L	3.6 pt/a	POST	C				
	Surfactant		L	0.25 % v/v	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
27	Weed-free								0	99
LSD (P=.05)							8.6	12.0	0.0	4.6
CV							7.23	10.43	0.0	3.48

## 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/15/2013	Jun/15/2013	Jun/15/2013	Jun/15/2013						
Trt-Eval Interval		12 DA-B	12 DA-B	12 DA-B	12 DA-B						
# Subsamples, Dec.		0	0	0	0						
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Grow Stg	Appl Code				
1	Lexar EZ	3.7	L	3	qt/a	PRE	A	99	99	99	99
2	Keystone NXT	5.6	L	2.4	qt/a	PRE	A	99	99	99	99
	Hornet WDG	68.5	WG	3	oz/a	PRE	A				
3	Realm Q (4 oz/A)							99	99	99	99
	Rimsulfuron (Premix)	25	WG	1.2	oz/a	EPOS	B				
	Mesotrione dry (Premix)	50	WG	2.5	oz/a	EPOS	B				
	Isxadifen-ethyl (Premix)	50	WG	0.3	oz/a	EPOS	B				
	AAtrex	4	L	1	qt/a	EPOS	B				
	Abundit Extra	3	SL	32	fl oz/a	EPOS	B				
	AMS		WG	2	lb/a	EPOS	B				
4	Warrant	3	L	3	pt/a	EPOS	B	99	99	99	99
	Impact	2.8	L	0.75	fl oz/a	EPOS	B				
	AAtrex	4	L	1	qt/a	EPOS	B				
	Roundup PowerMax	4.5	SL	32	fl oz/a	EPOS	B				
	MSO		L	0.5	% v/v	EPOS	B				
	N-Pak AMS		L	2.5	% v/v	EPOS	B				
5	Zidua	85	WG	2.5	oz/a	EPOS	B	99	99	99	99
	Armezon	2.8	L	0.75	fl oz/a	EPOS	B				
	AAtrex	4	L	1.5	qt/a	EPOS	B				
	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
	MSO		L	1	% v/v	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
6	SureStart	4.16	L	2	pt/a	EPOS	B	99	99	99	99
	Durango DMA	4	SL	24	fl oz/a	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
7	Halex GT	4.38	L	3.6	pt/a	EPOS	B	99	99	97	99
	Surfactant		L	0.25	% v/v	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
8	Capreno	3.45	L	3	fl oz/a	EPOS	B	99	99	99	99
	AAtrex	4	L	1	qt/a	EPOS	B				
	COC		L	1	% v/v	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
9	Capreno	3.45	L	3	fl oz/a	EPOS	B	99	99	99	99
	AAtrex	4	L	1	qt/a	EPOS	B				
	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
	COC		L	1	% v/v	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
10	Untreated							0	0	0	0
11	Harness Xtra	5.6	L	1.5	qt/a	PRE	A	99	99	99	92
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
12	Degree Xtra	4	L	2	qt/a	PRE	A	99	99	95	88
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
13	Anthem ATZ	4.5	L	48	fl oz/a	PRE	A	99	99	99	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	2.5	lb/a	POST	C				
14	Anthem	2.15	L	8	fl oz/a	PRE	A	99	99	99	99
	AAtrex	4	L	1.5	qt/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	2.5	lb/a	POST	C				
15	SureStart	4.16	L	2	pt/a	PRE	A	99	99	97	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	AMAPO	AMBEL	ABUTH
Crop Code				
Rating Data Type	control	control	control	control
Rating Unit	percent	percent	percent	percent
Rating Date	Jun/15/2013	Jun/15/2013	Jun/15/2013	Jun/15/2013
Trt-Eval Interval	12 DA-B	12 DA-B	12 DA-B	12 DA-B
# Subsamples, Dec.	0	0	0	0
Trt Treatment	Form	Form	Rate	Grow Appl
No. Name	Conc	Type	Rate Unit	Stg Code
16 TripleFLEX	4.16	L	1.75 pt/a	PRE A
Roundup PowerMax	4.5	SL	22 fl oz/a	POST C
AMS		WG	17 lb/100 gal	POST C
17 TripleFLEX	4.16	L	1.75 pt/a	PRE A
AAtrex	4	L	1 qt/a	PRE A
Roundup PowerMax	4.5	SL	22 fl oz/a	POST C
AMS		WG	17 lb/100 gal	POST C
18 Verdict	5.57	L	15 fl oz/a	PRE A
Status	56	WG	5 oz/a	POST C
Roundup PowerMax	4.5	SL	22 fl oz/a	POST C
Surfactant		L	0.25 % v/v	POST C
AMS		WG	8.5 lb/100 gal	POST C
19 Zidua	85	WG	2.5 oz/a	PRE A
Status	56	WG	5 oz/a	POST C
Roundup PowerMax	4.5	SL	22 fl oz/a	POST C
Surfactant		L	0.25 % v/v	POST C
AMS		WG	8.5 lb/100 gal	POST C
20 Zidua	85	WG	2.5 oz/a	PRE A
Armezon	2.8	L	0.75 fl oz/a	POST C
AAtrex	4	L	1 pt/a	POST C
Roundup PowerMax	4.5	SL	22 fl oz/a	POST C
MSO		L	1 % v/v	POST C
AMS		WG	8.5 lb/100 gal	POST C
21 Dual II Magnum	7.64	L	1.67 pt/a	PRE A
Laudis	3.5	L	3 fl oz/a	POST C
Clarity	4	L	8 fl oz/a	POST C
MSO		L	1 % v/v	POST C
AMS		WG	8.5 lb/100 gal	POST C
22 Harness Xtra	5.6	L	1.6 qt/a	PRE A
Impact	2.8	L	0.75 fl oz/a	POST C
AAtrex	4	L	1 pt/a	POST C
Roundup PowerMax	4.5	SL	32 fl oz/a	POST C
MSO		L	0.5 % v/v	POST C
N-Pak AMS		L	2.5 % v/v	POST C
23 Bicep II Magnum	5.5	L	1.1 qt/a	PRE A
Halex GT	4.38	L	3.6 pt/a	POST C
Surfactant		L	0.25 % v/v	POST C
AMS		WG	8.5 lb/100 gal	POST C
24 Bicep II Magnum	5.5	L	1.8 qt/a	PRE A
Laudis	3.5	L	2 fl oz/a	POST C
Liberty	2.34	L	22 fl oz/a	POST C
AMS		WG	8.5 lb/100 gal	POST C
25 Instigate (6 oz/A)				
Rimsulfuron (Premix)	25	WG	1 oz/a	PRE A
Mesotrione dry (Premix)	50	WG	5 oz/a	PRE A
Breakfree ATZ	5.25	L	2.2 qt/a	PRE A
Abundit Extra	3	SL	32 fl oz/a	POST C
AMS		WG	2 lb/a	POST C
26 Lexar EZ	3.7	L	1.5 qt/a	PRE A
Halex GT	4.38	L	3.6 pt/a	POST C
Surfactant		L	0.25 % v/v	POST C
AMS		WG	8.5 lb/100 gal	POST C
27 Weed-free				
LSD (P=.05)	4.1		0.5	5.7
CV	3.17		0.4	4.42



## 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/21/2013	Jun/21/2013	Jun/21/2013
Trt-Eval Interval									6 DA-C	6 DA-C	6 DA-C
# Subsamples, Dec.									0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code				
1	Lexar EZ	3.7	L	3	qt/a	PRE	A	0	99	99	99
2	Keystone NXT	5.6	L	2.4	qt/a	PRE	A	0	99	99	99
	Hornet WDG	68.5	WG	3	oz/a	PRE	A				
3	Realm Q (4 oz/A)							0	99	99	99
	Rimsulfuron (Premix)	25	WG	1.2	oz/a	EPOS	B				
	Mesotrione dry (Premix)	50	WG	2.5	oz/a	EPOS	B				
	Isxadifen-ethyl (Premix)	50	WG	0.3	oz/a	EPOS	B				
	AAtrex	4	L	1	qt/a	EPOS	B				
	Abundit Extra	3	SL	32	fl oz/a	EPOS	B				
	AMS		WG	2	lb/a	EPOS	B				
4	Warrant	3	L	3	pt/a	EPOS	B	1	99	99	99
	Impact	2.8	L	0.75	fl oz/a	EPOS	B				
	AAtrex	4	L	1	qt/a	EPOS	B				
	Roundup PowerMax	4.5	SL	32	fl oz/a	EPOS	B				
	MSO		L	0.5	% v/v	EPOS	B				
	N-Pak AMS		L	2.5	% v/v	EPOS	B				
5	Zidua	85	WG	2.5	oz/a	EPOS	B	7	99	99	99
	Armezon	2.8	L	0.75	fl oz/a	EPOS	B				
	AAtrex	4	L	1.5	qt/a	EPOS	B				
	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
	MSO		L	1	% v/v	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
6	SureStart	4.16	L	2	pt/a	EPOS	B	0	99	99	99
	Durango DMA	4	SL	24	fl oz/a	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
7	Halex GT	4.38	L	3.6	pt/a	EPOS	B	3	99	99	99
	Surfactant		L	0.25	% v/v	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
8	Capreno	3.45	L	3	fl oz/a	EPOS	B	9	99	99	99
	AAtrex	4	L	1	qt/a	EPOS	B				
	COC		L	1	% v/v	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
9	Capreno	3.45	L	3	fl oz/a	EPOS	B	11	99	99	99
	AAtrex	4	L	1	qt/a	EPOS	B				
	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
	COC		L	1	% v/v	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
10	Untreated							0	0	0	0
11	Harness Xtra	5.6	L	1.5	qt/a	PRE	A	0	99	99	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
12	Degree Xtra	4	L	2	qt/a	PRE	A	0	99	99	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
13	Anthem ATZ	4.5	L	48	fl oz/a	PRE	A	0	99	99	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	2.5	lb/a	POST	C				
14	Anthem	2.15	L	8	fl oz/a	PRE	A	0	99	99	99
	AAtrex	4	L	1.5	qt/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	2.5	lb/a	POST	C				
15	SureStart	4.16	L	2	pt/a	PRE	A	0	99	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								ANGR	CHEAL	AMAPO
Crop Code								ZEAMX		
Rating Data Type								injury	control	control
Rating Unit								percent	percent	percent
Rating Date								Jun/21/2013	Jun/21/2013	Jun/21/2013
Trt-Eval Interval								6 DA-C	6 DA-C	6 DA-C
# Subsamples, Dec.								0	0	0
Trt	Treatment	Form	Form	Rate	Grow	Appl				
No.	Name	Conc	Type	Rate Unit	Stg	Code				
16	TripleFLEX	4.16	L	1.75 pt/a	PRE	A	0	99	99	99
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	AMS		WG	17 lb/100 gal	POST	C				
17	TripleFLEX	4.16	L	1.75 pt/a	PRE	A	0	99	99	99
	AAtrex	4	L	1 qt/a	PRE	A				
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	AMS		WG	17 lb/100 gal	POST	C				
18	Verdict	5.57	L	15 fl oz/a	PRE	A	3	99	99	99
	Status	56	WG	5 oz/a	POST	C				
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	Surfactant		L	0.25 % v/v	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
19	Zidua	85	WG	2.5 oz/a	PRE	A	1	99	99	99
	Status	56	WG	5 oz/a	POST	C				
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	Surfactant		L	0.25 % v/v	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
20	Zidua	85	WG	2.5 oz/a	PRE	A	0	99	99	99
	Armezon	2.8	L	0.75 fl oz/a	POST	C				
	AAtrex	4	L	1 pt/a	POST	C				
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	MSO		L	1 % v/v	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
21	Dual II Magnum	7.64	L	1.67 pt/a	PRE	A	13	99	75	80
	Laudis	3.5	L	3 fl oz/a	POST	C				
	Clarity	4	L	8 fl oz/a	POST	C				
	MSO		L	1 % v/v	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
22	Harness Xtra	5.6	L	1.6 qt/a	PRE	A	0	99	99	99
	Impact	2.8	L	0.75 fl oz/a	POST	C				
	AAtrex	4	L	1 pt/a	POST	C				
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C				
	MSO		L	0.5 % v/v	POST	C				
	N-Pak AMS		L	2.5 % v/v	POST	C				
23	Bicep II Magnum	5.5	L	1.1 qt/a	PRE	A	0	99	99	99
	Halex GT	4.38	L	3.6 pt/a	POST	C				
	Surfactant		L	0.25 % v/v	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
24	Bicep II Magnum	5.5	L	1.8 qt/a	PRE	A	0	99	99	99
	Laudis	3.5	L	2 fl oz/a	POST	C				
	Liberty	2.34	L	22 fl oz/a	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
25	Instigate (6 oz/A)						1	99	99	99
	Rimsulfuron (Premix)	25	WG	1 oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5 oz/a	PRE	A				
	Breakfree ATZ	5.25	L	2.2 qt/a	PRE	A				
	Abundit Extra	3	SL	32 fl oz/a	POST	C				
	AMS		WG	2 lb/a	POST	C				
26	Lexar EZ	3.7	L	1.5 qt/a	PRE	A	0	99	99	99
	Halex GT	4.38	L	3.6 pt/a	POST	C				
	Surfactant		L	0.25 % v/v	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
27	Weed-free						0	99	99	99
LSD (P=.05)							2.9	0.4	1.9	3.7
CV							112.3	0.29	1.46	2.78

## 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/21/2013	Jun/21/2013	Jun/28/2013	Jun/28/2013
Rating Date								6 DA-C	6 DA-C	13 DA-C	13 DA-C
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	Lexar EZ	3.7	L	3	qt/a	PRE	A	99	99	0	98
2	Keystone NXT	5.6	L	2.4	qt/a	PRE	A	99	99	0	98
	Hornet WDG	68.5	WG	3	oz/a	PRE	A				
3	Realm Q (4 oz/A)							99	99	0	99
	Rimsulfuron (Premix)	25	WG	1.2	oz/a	EPOS	B				
	Mesotrione dry (Premix)	50	WG	2.5	oz/a	EPOS	B				
	Isxadifen-ethyl (Premix)	50	WG	0.3	oz/a	EPOS	B				
	AAtrex	4	L	1	qt/a	EPOS	B				
	Abundit Extra	3	SL	32	fl oz/a	EPOS	B				
	AMS		WG	2	lb/a	EPOS	B				
4	Warrant	3	L	3	pt/a	EPOS	B	99	99	3	99
	Impact	2.8	L	0.75	fl oz/a	EPOS	B				
	AAtrex	4	L	1	qt/a	EPOS	B				
	Roundup PowerMax	4.5	SL	32	fl oz/a	EPOS	B				
	MSO		L	0.5	% v/v	EPOS	B				
	N-Pak AMS		L	2.5	% v/v	EPOS	B				
5	Zidua	85	WG	2.5	oz/a	EPOS	B	99	99	5	99
	Armezon	2.8	L	0.75	fl oz/a	EPOS	B				
	AAtrex	4	L	1.5	qt/a	EPOS	B				
	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
	MSO		L	1	% v/v	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
6	SureStart	4.16	L	2	pt/a	EPOS	B	99	99	3	99
	Durango DMA	4	SL	24	fl oz/a	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
7	Halex GT	4.38	L	3.6	pt/a	EPOS	B	99	99	0	99
	Surfactant		L	0.25	% v/v	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
8	Capreno	3.45	L	3	fl oz/a	EPOS	B	99	99	4	99
	AAtrex	4	L	1	qt/a	EPOS	B				
	COC		L	1	% v/v	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
9	Capreno	3.45	L	3	fl oz/a	EPOS	B	99	99	7	99
	AAtrex	4	L	1	qt/a	EPOS	B				
	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
	COC		L	1	% v/v	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
10	Untreated							0	0	0	0
11	Harness Xtra	5.6	L	1.5	qt/a	PRE	A	99	99	0	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
12	Degree Xtra	4	L	2	qt/a	PRE	A	99	99	0	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
13	Anthem ATZ	4.5	L	48	fl oz/a	PRE	A	99	99	0	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	2.5	lb/a	POST	C				
14	Anthem	2.15	L	8	fl oz/a	PRE	A	99	99	0	99
	AAtrex	4	L	1.5	qt/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	2.5	lb/a	POST	C				
15	SureStart	4.16	L	2	pt/a	PRE	A	99	99	3	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							AMBEL	ABUTH	ZEAMX	ANGR
Crop Code							control	control	injury	control
Rating Data Type							percent	percent	percent	percent
Rating Unit							Jun/21/2013	Jun/21/2013	Jun/28/2013	Jun/28/2013
Rating Date							6 DA-C	6 DA-C	13 DA-C	13 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	TripleFLEX	4.16	L	1.75 pt/a	PRE	A	98	99	1	96
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	AMS		WG	17 lb/100 gal	POST	C				
17	TripleFLEX	4.16	L	1.75 pt/a	PRE	A	99	99	0	98
	AAtrex	4	L	1 qt/a	PRE	A				
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	AMS		WG	17 lb/100 gal	POST	C				
18	Verdict	5.57	L	15 fl oz/a	PRE	A	99	99	2	99
	Status	56	WG	5 oz/a	POST	C				
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	Surfactant		L	0.25 % v/v	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
19	Zidua	85	WG	2.5 oz/a	PRE	A	98	99	5	99
	Status	56	WG	5 oz/a	POST	C				
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	Surfactant		L	0.25 % v/v	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
20	Zidua	85	WG	2.5 oz/a	PRE	A	99	99	0	99
	Armezon	2.8	L	0.75 fl oz/a	POST	C				
	AAtrex	4	L	1 pt/a	POST	C				
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	MSO		L	1 % v/v	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
21	Dual II Magnum	7.64	L	1.67 pt/a	PRE	A	76	97	4	95
	Laudis	3.5	L	3 fl oz/a	POST	C				
	Clarity	4	L	8 fl oz/a	POST	C				
	MSO		L	1 % v/v	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
22	Harness Xtra	5.6	L	1.6 qt/a	PRE	A	99	99	0	99
	Impact	2.8	L	0.75 fl oz/a	POST	C				
	AAtrex	4	L	1 pt/a	POST	C				
	Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C				
	MSO		L	0.5 % v/v	POST	C				
	N-Pak AMS		L	2.5 % v/v	POST	C				
23	Bicep II Magnum	5.5	L	1.1 qt/a	PRE	A	99	99	0	99
	Halex GT	4.38	L	3.6 pt/a	POST	C				
	Surfactant		L	0.25 % v/v	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
24	Bicep II Magnum	5.5	L	1.8 qt/a	PRE	A	99	99	0	99
	Laudis	3.5	L	2 fl oz/a	POST	C				
	Liberty	2.34	L	22 fl oz/a	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
25	Instigate (6 oz/A)						99	99	1	99
	Rimsulfuron (Premix)	25	WG	1 oz/a	PRE	A				
	Mesotrione dry (Premix)	50	WG	5 oz/a	PRE	A				
	Breakfree ATZ	5.25	L	2.2 qt/a	PRE	A				
	Abundit Extra	3	SL	32 fl oz/a	POST	C				
	AMS		WG	2 lb/a	POST	C				
26	Lexar EZ	3.7	L	1.5 qt/a	PRE	A	99	99	0	99
	Halex GT	4.38	L	3.6 pt/a	POST	C				
	Surfactant		L	0.25 % v/v	POST	C				
	AMS		WG	8.5 lb/100 gal	POST	C				
27	Weed-free						99	99	0	99
LSD (P=.05)							1.8	1.2	3.4	1.8
CV							1.39	0.92	177.53	1.31

## 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/28/2013	Jun/28/2013	Jun/28/2013	Jun/28/2013					
Trt-Eval Interval		13 DA-C	13 DA-C	13 DA-C	13 DA-C					
# Subsamples, Dec.		0	0	0	0					
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code				
1	Lexar EZ	3.7	L	3 qt/a	PRE	A	99	99	99	99
2	Keystone NXT	5.6	L	2.4 qt/a	PRE	A	99	99	98	98
	Hornet WDG	68.5	WG	3 oz/a	PRE	A				
3	Realm Q (4 oz/A)						99	99	99	99
	Rimsulfuron (Premix)	25	WG	1.2 oz/a	EPOS	B				
	Mesotrione dry (Premix)	50	WG	2.5 oz/a	EPOS	B				
	Isxadifen-ethyl (Premix)	50	WG	0.3 oz/a	EPOS	B				
	AAtrex	4	L	1 qt/a	EPOS	B				
	Abundit Extra	3	SL	32 fl oz/a	EPOS	B				
	AMS		WG	2 lb/a	EPOS	B				
4	Warrant	3	L	3 pt/a	EPOS	B	99	99	99	99
	Impact	2.8	L	0.75 fl oz/a	EPOS	B				
	AAtrex	4	L	1 qt/a	EPOS	B				
	Roundup PowerMax	4.5	SL	32 fl oz/a	EPOS	B				
	MSO		L	0.5 % v/v	EPOS	B				
	N-Pak AMS		L	2.5 % v/v	EPOS	B				
5	Zidua	85	WG	2.5 oz/a	EPOS	B	99	99	99	99
	Armezon	2.8	L	0.75 fl oz/a	EPOS	B				
	AAtrex	4	L	1.5 qt/a	EPOS	B				
	Roundup PowerMax	4.5	SL	22 fl oz/a	EPOS	B				
	MSO		L	1 % v/v	EPOS	B				
	AMS		WG	8.5 lb/100 gal	EPOS	B				
6	SureStart	4.16	L	2 pt/a	EPOS	B	99	99	99	99
	Durango DMA	4	SL	24 fl oz/a	EPOS	B				
	AMS		WG	8.5 lb/100 gal	EPOS	B				
7	Halex GT	4.38	L	3.6 pt/a	EPOS	B	99	99	99	99
	Surfactant		L	0.25 % v/v	EPOS	B				
	AMS		WG	8.5 lb/100 gal	EPOS	B				
8	Capreno	3.45	L	3 fl oz/a	EPOS	B	99	99	99	99
	AAtrex	4	L	1 qt/a	EPOS	B				
	COC		L	1 % v/v	EPOS	B				
	AMS		WG	8.5 lb/100 gal	EPOS	B				
9	Capreno	3.45	L	3 fl oz/a	EPOS	B	99	99	99	99
	AAtrex	4	L	1 qt/a	EPOS	B				
	Roundup PowerMax	4.5	SL	22 fl oz/a	EPOS	B				
	COC		L	1 % v/v	EPOS	B				
	AMS		WG	8.5 lb/100 gal	EPOS	B				
10	Untreated						0	0	0	0
11	Harness Xtra	5.6	L	1.5 qt/a	PRE	A	99	99	99	99
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	AMS		WG	17 lb/100 gal	POST	C				
12	Degree Xtra	4	L	2 qt/a	PRE	A	99	99	99	99
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	AMS		WG	17 lb/100 gal	POST	C				
13	Anthem ATZ	4.5	L	48 fl oz/a	PRE	A	99	99	99	99
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	AMS		WG	2.5 lb/a	POST	C				
14	Anthem	2.15	L	8 fl oz/a	PRE	A	99	99	99	99
	AAtrex	4	L	1.5 qt/a	PRE	A				
	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C				
	AMS		WG	2.5 lb/a	POST	C				
15	SureStart	4.16	L	2 pt/a	PRE	A	99	99	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	AMAPO	AMBEL	ABUTH
Crop Code				
Rating Data Type	control	control	control	control
Rating Unit	percent	percent	percent	percent
Rating Date	Jun/28/2013	Jun/28/2013	Jun/28/2013	Jun/28/2013
Trt-Eval Interval	13 DA-C	13 DA-C	13 DA-C	13 DA-C
# Subsamples, Dec.	0	0	0	0
Trt Treatment	Form	Form	Rate	Grow Appl
No. Name	Conc	Type	Rate Unit	Stg Code
16 TripleFLEX	4.16	L	1.75 pt/a	PRE A
Roundup PowerMax	4.5	SL	22 fl oz/a	POST C
AMS		WG	17 lb/100 gal	POST C
17 TripleFLEX	4.16	L	1.75 pt/a	PRE A
AAtrex	4	L	1 qt/a	PRE A
Roundup PowerMax	4.5	SL	22 fl oz/a	POST C
AMS		WG	17 lb/100 gal	POST C
18 Verdict	5.57	L	15 fl oz/a	PRE A
Status	56	WG	5 oz/a	POST C
Roundup PowerMax	4.5	SL	22 fl oz/a	POST C
Surfactant		L	0.25 % v/v	POST C
AMS		WG	8.5 lb/100 gal	POST C
19 Zidua	85	WG	2.5 oz/a	PRE A
Status	56	WG	5 oz/a	POST C
Roundup PowerMax	4.5	SL	22 fl oz/a	POST C
Surfactant		L	0.25 % v/v	POST C
AMS		WG	8.5 lb/100 gal	POST C
20 Zidua	85	WG	2.5 oz/a	PRE A
Armezon	2.8	L	0.75 fl oz/a	POST C
AAtrex	4	L	1 pt/a	POST C
Roundup PowerMax	4.5	SL	22 fl oz/a	POST C
MSO		L	1 % v/v	POST C
AMS		WG	8.5 lb/100 gal	POST C
21 Dual II Magnum	7.64	L	1.67 pt/a	PRE A
Laudis	3.5	L	3 fl oz/a	POST C
Clarity	4	L	8 fl oz/a	POST C
MSO		L	1 % v/v	POST C
AMS		WG	8.5 lb/100 gal	POST C
22 Harness Xtra	5.6	L	1.6 qt/a	PRE A
Impact	2.8	L	0.75 fl oz/a	POST C
AAtrex	4	L	1 pt/a	POST C
Roundup PowerMax	4.5	SL	32 fl oz/a	POST C
MSO		L	0.5 % v/v	POST C
N-Pak AMS		L	2.5 % v/v	POST C
23 Bicep II Magnum	5.5	L	1.1 qt/a	PRE A
Halex GT	4.38	L	3.6 pt/a	POST C
Surfactant		L	0.25 % v/v	POST C
AMS		WG	8.5 lb/100 gal	POST C
24 Bicep II Magnum	5.5	L	1.8 qt/a	PRE A
Laudis	3.5	L	2 fl oz/a	POST C
Liberty	2.34	L	22 fl oz/a	POST C
AMS		WG	8.5 lb/100 gal	POST C
25 Instigate (6 oz/A)				
Rimsulfuron (Premix)	25	WG	1 oz/a	PRE A
Mesotrione dry (Premix)	50	WG	5 oz/a	PRE A
Breakfree ATZ	5.25	L	2.2 qt/a	PRE A
Abundit Extra	3	SL	32 fl oz/a	POST C
AMS		WG	2 lb/a	POST C
26 Lexar EZ	3.7	L	1.5 qt/a	PRE A
Halex GT	4.38	L	3.6 pt/a	POST C
Surfactant		L	0.25 % v/v	POST C
AMS		WG	8.5 lb/100 gal	POST C
27 Weed-free				
LSD (P=.05)	1.4	0.4	1.6	1.1
CV	1.06	0.28	1.22	0.79

## 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									Jul/12/2013	Jul/12/2013	Jul/12/2013
Trt-Eval Interval									27 DA-C	27 DA-C	27 DA-C
# Subsamples, Dec.									0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code				
1	Lexar EZ	3.7	L	3	qt/a	PRE	A	0	99	99	99
2	Keystone NXT	5.6	L	2.4	qt/a	PRE	A	0	99	99	99
	Hornet WDG	68.5	WG	3	oz/a	PRE	A				
3	Realm Q (4 oz/A)							0	96	99	99
	Rimsulfuron (Premix)	25	WG	1.2	oz/a	EPOS	B				
	Mesotrione dry (Premix)	50	WG	2.5	oz/a	EPOS	B				
	Isxadifen-ethyl (Premix)	50	WG	0.3	oz/a	EPOS	B				
	AAtrex	4	L	1	qt/a	EPOS	B				
	Abundit Extra	3	SL	32	fl oz/a	EPOS	B				
	AMS		WG	2	lb/a	EPOS	B				
4	Warrant	3	L	3	pt/a	EPOS	B	0	99	99	99
	Impact	2.8	L	0.75	fl oz/a	EPOS	B				
	AAtrex	4	L	1	qt/a	EPOS	B				
	Roundup PowerMax	4.5	SL	32	fl oz/a	EPOS	B				
	MSO		L	0.5	% v/v	EPOS	B				
	N-Pak AMS		L	2.5	% v/v	EPOS	B				
5	Zidua	85	WG	2.5	oz/a	EPOS	B	0	99	99	99
	Armezon	2.8	L	0.75	fl oz/a	EPOS	B				
	AAtrex	4	L	1.5	qt/a	EPOS	B				
	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
	MSO		L	1	% v/v	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
6	SureStart	4.16	L	2	pt/a	EPOS	B	0	99	99	99
	Durango DMA	4	SL	24	fl oz/a	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
7	Halex GT	4.38	L	3.6	pt/a	EPOS	B	0	99	99	99
	Surfactant		L	0.25	% v/v	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
8	Capreno	3.45	L	3	fl oz/a	EPOS	B	0	98	98	99
	AAtrex	4	L	1	qt/a	EPOS	B				
	COC		L	1	% v/v	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
9	Capreno	3.45	L	3	fl oz/a	EPOS	B	0	99	99	99
	AAtrex	4	L	1	qt/a	EPOS	B				
	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
	COC		L	1	% v/v	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
10	Untreated							0	0	0	0
11	Harness Xtra	5.6	L	1.5	qt/a	PRE	A	0	99	99	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
12	Degree Xtra	4	L	2	qt/a	PRE	A	0	99	99	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
13	Anthem ATZ	4.5	L	48	fl oz/a	PRE	A	0	99	99	99
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	2.5	lb/a	POST	C				
14	Anthem	2.15	L	8	fl oz/a	PRE	A	0	99	99	99
	AAtrex	4	L	1.5	qt/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	2.5	lb/a	POST	C				
15	SureStart	4.16	L	2	pt/a	PRE	A	0	99	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								ANGR	CHEAL	AMAPO
Crop Code								ZEAMX		
Rating Data Type								injury	control	control
Rating Unit								percent	percent	percent
Rating Date								Jul/12/2013	Jul/12/2013	Jul/12/2013
Trt-Eval Interval								27 DA-C	27 DA-C	27 DA-C
# Subsamples, Dec.								0	0	0
Trt Treatment	Form	Form	Rate	Grow	Appl					
No. Name	Conc	Type	Rate Unit	Stg	Code					
16 TripleFLEX	4.16	L	1.75 pt/a	PRE	A	0		97	99	99
Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C					
AMS		WG	17 lb/100 gal	POST	C					
17 TripleFLEX	4.16	L	1.75 pt/a	PRE	A	0		98	99	99
AAtrex	4	L	1 qt/a	PRE	A					
Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C					
AMS		WG	17 lb/100 gal	POST	C					
18 Verdict	5.57	L	15 fl oz/a	PRE	A	0		99	99	99
Status	56	WG	5 oz/a	POST	C					
Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C					
Surfactant		L	0.25 % v/v	POST	C					
AMS		WG	8.5 lb/100 gal	POST	C					
19 Zidua	85	WG	2.5 oz/a	PRE	A	0		99	99	99
Status	56	WG	5 oz/a	POST	C					
Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C					
Surfactant		L	0.25 % v/v	POST	C					
AMS		WG	8.5 lb/100 gal	POST	C					
20 Zidua	85	WG	2.5 oz/a	PRE	A	0		99	99	99
Armezon	2.8	L	0.75 fl oz/a	POST	C					
AAtrex	4	L	1 pt/a	POST	C					
Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C					
MSO		L	1 % v/v	POST	C					
AMS		WG	8.5 lb/100 gal	POST	C					
21 Dual II Magnum	7.64	L	1.67 pt/a	PRE	A	0		96	99	99
Laudis	3.5	L	3 fl oz/a	POST	C					
Clarity	4	L	8 fl oz/a	POST	C					
MSO		L	1 % v/v	POST	C					
AMS		WG	8.5 lb/100 gal	POST	C					
22 Harness Xtra	5.6	L	1.6 qt/a	PRE	A	0		99	99	99
Impact	2.8	L	0.75 fl oz/a	POST	C					
AAtrex	4	L	1 pt/a	POST	C					
Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C					
MSO		L	0.5 % v/v	POST	C					
N-Pak AMS		L	2.5 % v/v	POST	C					
23 Bicep II Magnum	5.5	L	1.1 qt/a	PRE	A	0		99	99	99
Halex GT	4.38	L	3.6 pt/a	POST	C					
Surfactant		L	0.25 % v/v	POST	C					
AMS		WG	8.5 lb/100 gal	POST	C					
24 Bicep II Magnum	5.5	L	1.8 qt/a	PRE	A	0		99	99	99
Laudis	3.5	L	2 fl oz/a	POST	C					
Liberty	2.34	L	22 fl oz/a	POST	C					
AMS		WG	8.5 lb/100 gal	POST	C					
25 Instigate (6 oz/A)						0		98	99	99
Rimsulfuron (Premix)	25	WG	1 oz/a	PRE	A					
Mesotrione dry (Premix)	50	WG	5 oz/a	PRE	A					
Breakfree ATZ	5.25	L	2.2 qt/a	PRE	A					
Abundit Extra	3	SL	32 fl oz/a	POST	C					
AMS		WG	2 lb/a	POST	C					
26 Lexar EZ	3.7	L	1.5 qt/a	PRE	A	0		99	99	99
Halex GT	4.38	L	3.6 pt/a	POST	C					
Surfactant		L	0.25 % v/v	POST	C					
AMS		WG	8.5 lb/100 gal	POST	C					
27 Weed-free						0		97	99	99
LSD (P=.05)						0.0		2.2	0.6	0.5
CV						0.0		1.61	0.43	0.38



## MSU Weed Science Research Program

Weed Code								AMBEL	ABUTH		
Crop Code								control	control	ZEAMX	ZEAMX
Rating Data Type								percent	percent	moisture	yield
Rating Unit								percent	percent	percent	bu/acre
Rating Date								Jul/12/2013	Jul/12/2013	Nov/23/2013	Nov/23/2013
Trt-Eval Interval								27 DA-C	27 DA-C	201 DA-A	at 15% M
# Subsamples, Dec.								0	0	1	1
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code				
1	Lexar EZ	3.7	L	3	qt/a	PRE	A	99	99	18.2	212.1
2	Keystone NXT	5.6	L	2.4	qt/a	PRE	A	99	99	17.8	210.2
	Hornet WDG	68.5	WG	3	oz/a	PRE	A				
3	Realm Q (4 oz/A)							99	99	17.8	203.1
	Rimsulfuron (Premix)	25	WG	1.2	oz/a	EPOS	B				
	Mesotrione dry (Premix)	50	WG	2.5	oz/a	EPOS	B				
	Isxadifen-ethyl (Premix)	50	WG	0.3	oz/a	EPOS	B				
	AAtrex	4	L	1	qt/a	EPOS	B				
	Abundit Extra	3	SL	32	fl oz/a	EPOS	B				
	AMS		WG	2	lb/a	EPOS	B				
4	Warrant	3	L	3	pt/a	EPOS	B	99	99	17.8	203.8
	Impact	2.8	L	0.75	fl oz/a	EPOS	B				
	AAtrex	4	L	1	qt/a	EPOS	B				
	Roundup PowerMax	4.5	SL	32	fl oz/a	EPOS	B				
	MSO		L	0.5	% v/v	EPOS	B				
	N-Pak AMS		L	2.5	% v/v	EPOS	B				
5	Zidua	85	WG	2.5	oz/a	EPOS	B	99	99	18.2	199.4
	Armezon	2.8	L	0.75	fl oz/a	EPOS	B				
	AAtrex	4	L	1.5	qt/a	EPOS	B				
	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
	MSO		L	1	% v/v	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
6	SureStart	4.16	L	2	pt/a	EPOS	B	99	99	17.8	208.5
	Durango DMA	4	SL	24	fl oz/a	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
7	Halex GT	4.38	L	3.6	pt/a	EPOS	B	99	99	17.7	202.0
	Surfactant		L	0.25	% v/v	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
8	Capreno	3.45	L	3	fl oz/a	EPOS	B	99	99	18.0	198.9
	AAtrex	4	L	1	qt/a	EPOS	B				
	COC		L	1	% v/v	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
9	Capreno	3.45	L	3	fl oz/a	EPOS	B	99	99	17.7	190.8
	AAtrex	4	L	1	qt/a	EPOS	B				
	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
	COC		L	1	% v/v	EPOS	B				
	AMS		WG	8.5	lb/100 gal	EPOS	B				
10	Untreated							0	0	17.7	143.2
11	Harness Xtra	5.6	L	1.5	qt/a	PRE	A	99	99	17.2	209.7
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
12	Degree Xtra	4	L	2	qt/a	PRE	A	99	99	17.7	201.1
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	17	lb/100 gal	POST	C				
13	Anthem ATZ	4.5	L	48	fl oz/a	PRE	A	99	99	17.9	198.2
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	2.5	lb/a	POST	C				
14	Anthem	2.15	L	8	fl oz/a	PRE	A	99	99	17.6	193.3
	AAtrex	4	L	1.5	qt/a	PRE	A				
	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
	AMS		WG	2.5	lb/a	POST	C				
15	SureStart	4.16	L	2	pt/a	PRE	A	99	99	17.7	194.4
	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							AMBEL	ABUTH		
Crop Code									ZEAMX	ZEAMX
Rating Data Type							control	control	moisture	yield
Rating Unit							percent	percent	percent	bu/acre
Rating Date							Jul/12/2013	Jul/12/2013	Nov/23/2013	Nov/23/2013
Trt-Eval Interval							27 DA-C	27 DA-C	201 DA-A	at 15% M
# Subsamples, Dec.							0	0	1	1
Trt Treatment	Form	Form	Rate	Grow	Appl					
No. Name	Conc	Type	Rate Unit	Stg	Code					
16 TripleFLEX	4.16	L	1.75 pt/a	PRE	A	99	99	17.6	200.7	
Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C					
AMS		WG	17 lb/100 gal	POST	C					
17 TripleFLEX	4.16	L	1.75 pt/a	PRE	A	99	99	18.0	201.5	
AAtrex	4	L	1 qt/a	PRE	A					
Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C					
AMS		WG	17 lb/100 gal	POST	C					
18 Verdict	5.57	L	15 fl oz/a	PRE	A	99	99	17.6	185.9	
Status	56	WG	5 oz/a	POST	C					
Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C					
Surfactant		L	0.25 % v/v	POST	C					
AMS		WG	8.5 lb/100 gal	POST	C					
19 Zidua	85	WG	2.5 oz/a	PRE	A	99	99	17.5	193.6	
Status	56	WG	5 oz/a	POST	C					
Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C					
Surfactant		L	0.25 % v/v	POST	C					
AMS		WG	8.5 lb/100 gal	POST	C					
20 Zidua	85	WG	2.5 oz/a	PRE	A	99	99	17.7	215.2	
Armezon	2.8	L	0.75 fl oz/a	POST	C					
AAtrex	4	L	1 pt/a	POST	C					
Roundup PowerMax	4.5	SL	22 fl oz/a	POST	C					
MSO		L	1 % v/v	POST	C					
AMS		WG	8.5 lb/100 gal	POST	C					
21 Dual II Magnum	7.64	L	1.67 pt/a	PRE	A	99	99	17.4	199.0	
Laudis	3.5	L	3 fl oz/a	POST	C					
Clarity	4	L	8 fl oz/a	POST	C					
MSO		L	1 % v/v	POST	C					
AMS		WG	8.5 lb/100 gal	POST	C					
22 Harness Xtra	5.6	L	1.6 qt/a	PRE	A	99	99	17.9	204.1	
Impact	2.8	L	0.75 fl oz/a	POST	C					
AAtrex	4	L	1 pt/a	POST	C					
Roundup PowerMax	4.5	SL	32 fl oz/a	POST	C					
MSO		L	0.5 % v/v	POST	C					
N-Pak AMS		L	2.5 % v/v	POST	C					
23 Bicep II Magnum	5.5	L	1.1 qt/a	PRE	A	99	99	17.5	189.5	
Halex GT	4.38	L	3.6 pt/a	POST	C					
Surfactant		L	0.25 % v/v	POST	C					
AMS		WG	8.5 lb/100 gal	POST	C					
24 Bicep II Magnum	5.5	L	1.8 qt/a	PRE	A	99	99	17.4	187.4	
Laudis	3.5	L	2 fl oz/a	POST	C					
Liberty	2.34	L	22 fl oz/a	POST	C					
AMS		WG	8.5 lb/100 gal	POST	C					
25 Instigate (6 oz/A)						99	99	17.4	193.7	
Rimsulfuron (Premix)	25	WG	1 oz/a	PRE	A					
Mesotrione dry (Premix)	50	WG	5 oz/a	PRE	A					
Breakfree ATZ	5.25	L	2.2 qt/a	PRE	A					
Abundit Extra	3	SL	32 fl oz/a	POST	C					
AMS		WG	2 lb/a	POST	C					
26 Lexar EZ	3.7	L	1.5 qt/a	PRE	A	99	99	18.1	202.4	
Halex GT	4.38	L	3.6 pt/a	POST	C					
Surfactant		L	0.25 % v/v	POST	C					
AMS		WG	8.5 lb/100 gal	POST	C					
27 Weed-free						99	99	17.7	195.8	
LSD (P=.05)						0.4	0.3	0.59	23.69	
CV						0.26	0.22	2.34	8.47	