

# Ohio State University Horticulture and Crop Science

## Weed Control With Realm Q Systems

Title No. 2:  
 Trial ID: 11PRPOC2                      Protocol ID: 11PRPOC2  
 Location: WESTERN BRANCH F-8        Study Director: Anthony F. Dobbels  
 Project ID: USA-11-01                  Investigator: Dr. Mark M. Loux  
    Sponsor Contact: Marsha Martin, DuPont

### General Trial Information

**Study Director:** Anthony F. Dobbels    **Title:** Research Specialist  
**Investigator:** Dr. Mark M. Loux        **Title:** Professor

### Trial Location

**City:** South Charleston    **Latitude of LL Corner °:** 39.860085 N  
**State/Prov.:** Ohio            **Longitude of LL Corner °:** -83.6702 W  
**Postal Code:** 45368  
**Country:** USA

### Crop Description

**Crop 1:** ZEAMX    Zea mays                      Corn  
**Variety:** Dekalb DKC 62-97  
**BBCH Scale:** BCOR                                      **Description:** RR  
**Planting Method:** SEEDED    seeded                                      **Planting Date:** 5/31/11  
**Depth, Unit:** 2            IN                                      **Rate, Unit:** 32097 S/A  
**Row Spacing, Unit:** 30        IN  
**Seed Bed:** MEDIUM    medium                      **Soil Temperature, Unit:** 72        F  
**Soil Moisture:** SLIWET    slightly wet                      **Emergence Date:** 6/6/11

### Pest Description

- Pest 1 Type:** W    **Code:** SETFA    Setaria faberi  
**Common Name:** Giant foxtail
- Pest 2 Type:** W    **Code:** AMBTR    Ambrosia trifida  
**Common Name:** Giant ragweed
- Pest 3 Type:** W    **Code:** CHEAL    Chenopodium album  
**Common Name:** Common lambsquarters
- Pest 4 Type:** W    **Code:** AMARE    Amaranthus retroflexus  
**Common Name:** Redroot pigweed
- Pest 5 Type:** W    **Code:** ABUTH    Abutilon theophrasti  
**Common Name:** Velvetleaf
- Pest 6 Type:** W    **Code:** POLPY    Persicaria pensylvanica  
**Common Name:** Pennsylvania smartweed
- Pest 7 Type:** W    **Code:** HIBTR    Hibiscus trionum  
**Common Name:** Venice mallow
- Pest 8 Type:** W    **Code:** SIDSP    Sida spinosa  
**Common Name:** Prickly sida
- Pest 9 Type:** W    **Code:** ECHCG    Echinochloa crus-galli  
**Common Name:** Common barnyardgrass
- Pest10 Type:** W    **Code:** SOLPT    Solanum ptycanthum  
**Common Name:** Eastern black nightshade

### Site and Design

**Plot Width, Unit:** 6.67 FT                      **Site Type:** FIELD    field  
**Plot Length, Unit:** 30 FT                      **Experimental Unit:** 1        PLOT plot  
**Plot Area, Unit:** 200.1 FT2                      **Tillage Type:** CONTIL    conventional-till  
**Replications:** 3                                      **Study Design:** RACOB    Randomized Complete Block (RCB)  
**Untreated Arrangement:** INCLUDED        single control randomized in each block

### Soil Description

**Description Name:** F-8 Middle  
**% OM:** 1.1                      **Texture:** CL    clay loam  
**pH:** 7                                      **Soil Name:** Celina  
**CEC:** 12.7                                      **Fert. Level:** G good  
**Soil Drainage:** G good

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## Application Description

	A	B	C
<b>Application Date:</b>	5/31/11	6/21/11	7/7/11
<b>Time of Day:</b>	11:15 A.M	11:45 A.M	10:00 A.M
<b>Application Method:</b>	SPRAY	SPRAY	SPRAY
<b>Application Timing:</b>	PRE	EPO	
<b>Application Placement:</b>	BROSOI	BROFOL	BROFOL
<b>Applied By:</b>	Reeb		
<b>Air Temperature, Unit:</b>	89.9 F	87 F	87 F
<b>% Relative Humidity:</b>	62.1	71	87
<b>Wind Velocity, Unit:</b>	3.8 MPH	5 MPH	1.1 MPH
<b>Wind Direction:</b>	SSW	WSW	W
<b>Dew Presence (Y/N):</b>	N no	N no	N no
<b>Soil Temperature, Unit:</b>	72 F	74 F	77 F
<b>Soil Moisture:</b>	GOOD	SLIWET	MOIST
<b>% Cloud Cover:</b>	2	40	20
<b>Next Rain Occurred On:</b>	6/3/11	6/21/11	7/8/11

## Crop Stage At Each Application

	A		B		C	
<b>Crop 1 Code, BBCH Scale:</b>	ZEAMX	BCOR	ZEAMX	BCOR	ZEAMX	BCOR
<b>Stage Scale Used:</b>	BBCH		BBCH		BBCH	
<b>Stage Majority, Percent:</b>	15	100	19	100		
<b>Height, Unit:</b>	11	IN	43	IN		
<b>Height Minimum, Maximum:</b>	10	12	43	43		

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## Pest Stage At Each Application

	A		B		C	
<b>Pest 1 Code, Type, Scale:</b>	SETFA	W	SETFA	W	SETFA	W
<b>Stage Majority, Percent:</b>			13	100	12	80
<b>Stage Minimum, Percent:</b>					12	80
<b>Stage Maximum, Percent:</b>					15	10
<b>Height, Unit:</b>			3	IN	5	IN
<b>Height Minimum, Maximum:</b>			3	5	4	6
<b>Density, Unit:</b>	261.33	M2	261.33	M2	261.33	M2
<b>Pest 2 Code, Type, Scale:</b>	AMBTR	W	AMBTR	W	AMBTR	W
<b>Stage Majority, Percent:</b>			16	100	16	80
<b>Stage Minimum, Percent:</b>					16	80
<b>Stage Maximum, Percent:</b>					19	20
<b>Height, Unit:</b>			6	IN	8	IN
<b>Height Minimum, Maximum:</b>			3	7	4	12
<b>Density, Unit:</b>	28	M2	28	M2	28	M2
<b>Pest 3 Code, Type, Scale:</b>	CHEAL	W	CHEAL	W	CHEAL	W
<b>Stage Majority, Percent:</b>			14	100	16	80
<b>Stage Minimum, Percent:</b>					16	80
<b>Stage Maximum, Percent:</b>					19	10
<b>Height, Unit:</b>			2	IN	5	IN
<b>Height Minimum, Maximum:</b>			1	2	2	8
<b>Density, Unit:</b>	72	M2	72	M2	72	M2
<b>Pest 4 Code, Type, Scale:</b>	AMARE	W	AMARE	W	AMARE	W
<b>Stage Majority, Percent:</b>			14	100		
<b>Height, Unit:</b>			3	IN		
<b>Height Minimum, Maximum:</b>			1	4		
<b>Density, Unit:</b>	94.66	M2	94.66	M2	94.66	M2
<b>Pest 5 Code, Type, Scale:</b>	ABUTH	W	ABUTH	W	ABUTH	W
<b>Stage Majority, Percent:</b>			12	100		
<b>Height, Unit:</b>			2	IN		
<b>Height Minimum, Maximum:</b>			1	2		
<b>Density, Unit:</b>	2.66	M2	2.66	M2	2.66	M2
<b>Pest 6 Code, Type, Scale:</b>	POLPY	W	POLPY	W	POLPY	W
<b>Stage Majority, Percent:</b>			12	100		
<b>Height, Unit:</b>			2	IN		
<b>Height Minimum, Maximum:</b>			1	2		
<b>Pest 7 Code, Type, Scale:</b>	HIBTR	W	HIBTR	W	HIBTR	W
<b>Stage Majority, Percent:</b>					14	80
<b>Stage Minimum, Percent:</b>					14	80
<b>Stage Maximum, Percent:</b>					16	20
<b>Height, Unit:</b>					3	IN
<b>Height Minimum, Maximum:</b>					2	4
<b>Density, Unit:</b>	6.66	M2	6.66	M2	6.66	M2
<b>Pest 8 Code, Type, Scale:</b>	SIDSP	W	SIDSP	W	SIDSP	W
<b>Stage Majority, Percent:</b>					14	90
<b>Stage Minimum, Percent:</b>					14	90
<b>Stage Maximum, Percent:</b>					16	10
<b>Height, Unit:</b>					4	IN
<b>Height Minimum, Maximum:</b>					2	8
<b>Density, Unit:</b>	16	M2	16	M2	16	M2
<b>Pest 9 Code, Type, Scale:</b>	ECHCG	W	ECHCG	W	ECHCG	W
<b>Density, Unit:</b>	9.33	M2	9.33	M2	9.33	M2
<b>Pest10 Code, Type, Scale:</b>	SOLPT	W	SOLPT	W	SOLPT	W
<b>Density, Unit:</b>	1.33	M2	1.33	M2	1.33	M2

## Application Equipment

	A		B		C	
<b>Appl. Equipment:</b>	6 foot boom		6 foot boom		6 foot boom	
<b>Equipment Type:</b>	SPRBAC		SPRBAC		SPRBAC	
<b>Operating Pressure, Unit:</b>	46	PSI	46	PSI	46	PSI
<b>Nozzle Type:</b>	TEEJET DG		TEEJET DG		TEEJET DG	
<b>Nozzle Size:</b>	80015		80015		80015	
<b>Nozzle Spacing, Unit:</b>	18	IN	18	IN	18	IN
<b>Boom Length, Unit:</b>	6	FT	6	FT	6	FT
<b>Boom Height, Unit:</b>	20	IN	20	IN	20	IN
<b>Ground Speed, Unit:</b>	3	MPH	3	MPH	3	MPH
<b>Carrier:</b>	WATER		WATER		WATER	
<b>Spray Volume, Unit:</b>	15	GPA	15	GPA	15	GPA
<b>Mix Size, Unit:</b>	0.33	Gallons	0.33	Gallons	0.33	Gallons
<b>Propellant:</b>	CO2		CO2		CO2	

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Sponsor Contact: Marsha Martin, DuPont

Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	AMARE	ABUTH
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>	Abutilon theop>
Pest Name		Giant foxtail	Giant ragweed	Common lambsqu>	Redroot pigweed	Velvetleaf
Crop Code	ZEAMX					
BBCH Scale	BCOR					
Crop Scientific Name	Zea mays					
Crop Name	Corn					
Rating Date	6/20/11	6/20/11	6/20/11	6/20/11	6/20/11	6/20/11
Rating Type	PHYGEN	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	20 20	20 20	20 20	20 20	20 20	20 20
Trt-Eval Interval	20 DA-A	20 DA-A	20 DA-A	20 DA-A	20 DA-A	20 DA-A
Plant-Eval Interval	20 DP-1	20 DP-1	20 DP-1	20 DP-1	20 DP-1	20 DP-1
Days After Emergence	14 DE-1	14 DE-1	14 DE-1	14 DE-1	14 DE-1	14 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	1	2	3	4	5	6
1	Rimsulfuron	25	1.2 oz/a		B	0	0	0	0	0	0
1	Isoxadifen-Ethyl	50	0.3 oz/a		B						
1	Mesotrione	50	2.5 oz/a		B						
1	COC	100	19.2 oz/a		B						
1	Abundit	4	32 oz/a		C						
1	N-PAK AMS	100	1.5 qt/a		C						
2	Rimsulfuron	25	1.2 oz/a		B	0	0	0	0	0	0
2	Isoxadifen-Ethyl	50	0.3 oz/a		B						
2	Mesotrione	50	2.5 oz/a		B						
2	Abundit	4	32 oz/a		B						
2	N-PAK AMS	100	1.5 qt/a		B						
3	Rimsulfuron	25	1.2 oz/a		B	0	0	0	0	0	0
3	Isoxadifen-Ethyl	50	0.3 oz/a		B						
3	Mesotrione	50	2.5 oz/a		B						
3	Abundit	4	32 oz/a		B						
3	Atrazine	4	1 qt/a		B						
3	N-PAK AMS	100	1.5 qt/a		B						
4	Rimsulfuron	25	1.2 oz/a		B	0	0	0	0	0	0
4	Isoxadifen-Ethyl	50	0.3 oz/a		B						
4	Mesotrione	50	2.5 oz/a		B						
4	Atrazine	4	1 qt/a		B						
4	COC	100	19.2 oz/a		B						
4	N-PAK AMS	100	1.5 qt/a		B						
4	Abundit	4	32 oz/a		C						
4	N-PAK AMS	100	1.5 qt/a		C						
5	Cinch ATZ	5.5	1 qt/a		A	0	86	43	65	100	73
5	Rimsulfuron	25	1.2 oz/a		B						
5	Isoxadifen-Ethyl	50	0.3 oz/a		B						
5	Mesotrione	50	2.5 oz/a		B						
5	COC	100	19.2 oz/a		B						
5	N-PAK AMS	100	1.5 qt/a		B						
6	Cinch ATZ	5.5	1 qt/a		A	0	93	63	60	100	97
6	Rimsulfuron	25	1.2 oz/a		B						
6	Isoxadifen-Ethyl	50	0.3 oz/a		B						
6	Mesotrione	50	2.5 oz/a		B						
6	Abundit	4	32 oz/a		B						
6	N-PAK AMS	100	1.5 qt/a		B						
7	Rimsulfuron	25	1 oz/a		A	0	90	72	98	100	100
7	Isoxaflutole	75	0.67 oz/a		A						
7	Atrazine	4	1 qt/a		A						

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Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	AMARE	ABUTH
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>	Abutilon theop>
Pest Name		Giant foxtail	Giant ragweed	Common lambsqu>	Redroot pigweed	Velvetleaf
Crop Code	ZEAMX					
BBCH Scale	BCOR					
Crop Scientific Name	Zea mays					
Crop Name	Corn					
Rating Date	6/20/11	6/20/11	6/20/11	6/20/11	6/20/11	6/20/11
Rating Type	PHYGEN	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	20 20	20 20	20 20	20 20	20 20	20 20
Trt-Eval Interval	20 DA-A	20 DA-A	20 DA-A	20 DA-A	20 DA-A	20 DA-A
Plant-Eval Interval	20 DP-1	20 DP-1	20 DP-1	20 DP-1	20 DP-1	20 DP-1
Days After Emergence	14 DE-1	14 DE-1	14 DE-1	14 DE-1	14 DE-1	14 DE-1
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Form	Other	Other	Appl							
No.	Name	Conc	Rate	Rate	Unit	Code	1	2	3	4	5	6
7	Rimsulfuron	25	1.2 oz/a			B						
7	Isoxadifen-Ethyl	50	0.3 oz/a			B						
7	Mesotrione	50	2.5 oz/a			B						
7	COC	100	19.2 oz/a			B						
7	N-PAK AMS	100	1.5 qt/a			B						
8	Rimsulfuron	25	1 oz/a			A	0	81	47	92	100	100
8	Isoxaflutole	75	0.67 oz/a			A						
8	Rimsulfuron	25	1.2 oz/a			B						
8	Isoxadifen-Ethyl	50	0.3 oz/a			B						
8	Mesotrione	50	2.5 oz/a			B						
8	Atrazine	4	1 qt/a			B						
8	COC	100	19.2 oz/a			B						
8	N-PAK AMS	100	1.5 qt/a			B						
9	Rimsulfuron	25	1 oz/a			A	0	91	78	90	100	100
9	Isoxaflutole	75	0.67 oz/a			A						
9	Atrazine	4	1 qt/a			A						
9	Rimsulfuron	25	1.2 oz/a			B						
9	Isoxadifen-Ethyl	50	0.3 oz/a			B						
9	Mesotrione	50	2.5 oz/a			B						
9	Abundit	4	32 oz/a			B						
9	N-PAK AMS	100	1.5 qt/a			B						
10	Rimsulfuron	25	1 oz/a			A	0	93	70	92	100	100
10	Isoxaflutole	75	0.67 oz/a			A						
10	Atrazine	4	1 qt/a			A						
10	Abundit	4	32 oz/a			B						
10	N-PAK AMS	100	1.5 qt/a			B						
11	Cinch ATZ	5.5	1 qt/a			A	0	98	53	57	100	82
11	Rimsulfuron	25	1.2 oz/a			B						
11	Isoxadifen-Ethyl	50	0.3 oz/a			B						
11	Mesotrione	50	2.5 oz/a			B						
11	Abundit	4	32 oz/a			C						
11	N-PAK AMS	100	1.5 qt/a			C						
12	Halex GT	4.38	3.6 pt/a			B	0	0	0	0	0	0
12	NIS	100	4.8 oz/a			B						
12	N-PAK AMS	100	1.5 qt/a			B						
13	Capreno	3.46	3 oz/a			B	0	0	0	0	0	0
13	Abundit	4	32 oz/a			B						
13	N-PAK AMS	100	1.5 qt/a			B						
14	UTC						0	0	0	0	0	0
LSD (P=.05)							0.0	12.2	15.4	14.2	0.0	9.3
Standard Deviation							0.0	7.3	9.2	8.5	0.0	5.5
CV							0.0	16.15	30.22	21.41	0.0	11.91
Bartlett's X2							0.0	7.662	9.211	10.13	0.0	3.811
P(Bartlett's X2)							.	0.264	0.162	0.119	.	0.149
Replicate F							0.000	7.295	2.647	1.430	0.000	0.833
Replicate Prob(F)							1.0000	0.0031	0.0899	0.2576	1.0000	0.4460

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	HIBTR	POLPY	SETFA	AMBTR	ABUTH	
Pest Scientific Name	Hibiscus trion>	Persicaria pen>	Setaria faberi	Ambrosia trifi>	Abutilon theop>	
Pest Name	Venice mallow	Pennsylvania s>	Giant foxtail	Giant ragweed	Velvetleaf	
Crop Code			ZEAMX	ZEAMX		
BBCH Scale			BCOR	BCOR		
Crop Scientific Name			Zea mays	Zea mays		
Crop Name			Corn	Corn		
Rating Date	6/20/11	6/20/11	6/28/11	7/5/11	7/5/11	7/5/11
Rating Type	CONTROL	CONTROL	PHYGEN	PHYGEN	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	20 20	20 20	28 7	35 14	35 14	35 14
Trt-Eval Interval	20 DA-A	20 DA-A	7 DA-B	14 DA-B	14 DA-B	14 DA-B
Plant-Eval Interval	20 DP-1	20 DP-1	28 DP-1	35 DP-1	35 DP-1	35 DP-1
Days After Emergence	14 DE-1	14 DE-1	22 DE-1	29 DE-1	29 DE-1	29 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	7	8	9	10	11	12	13
1	Rimsulfuron	25	1.2 oz/a		B	0	0	1	0	77	50	100
1	Isoxadifen-Ethyl	50	0.3 oz/a		B							
1	Mesotrione	50	2.5 oz/a		B							
1	COC	100	19.2 oz/a		B							
1	Abundit	4	32 oz/a		C							
1	N-PAK AMS	100	1.5 qt/a		C							
2	Rimsulfuron	25	1.2 oz/a		B	0	0	1	0	100	99	100
2	Isoxadifen-Ethyl	50	0.3 oz/a		B							
2	Mesotrione	50	2.5 oz/a		B							
2	Abundit	4	32 oz/a		B							
2	N-PAK AMS	100	1.5 qt/a		B							
3	Rimsulfuron	25	1.2 oz/a		B	0	0	1	0	100	100	100
3	Isoxadifen-Ethyl	50	0.3 oz/a		B							
3	Mesotrione	50	2.5 oz/a		B							
3	Abundit	4	32 oz/a		B							
3	Atrazine	4	1 qt/a		B							
3	N-PAK AMS	100	1.5 qt/a		B							
4	Rimsulfuron	25	1.2 oz/a		B	0	0	1	0	86	97	100
4	Isoxadifen-Ethyl	50	0.3 oz/a		B							
4	Mesotrione	50	2.5 oz/a		B							
4	Atrazine	4	1 qt/a		B							
4	COC	100	19.2 oz/a		B							
4	N-PAK AMS	100	1.5 qt/a		B							
4	Abundit	4	32 oz/a		C							
4	N-PAK AMS	100	1.5 qt/a		C							
5	Cinch ATZ	5.5	1 qt/a		A	97	100	7	0	100	89	100
5	Rimsulfuron	25	1.2 oz/a		B							
5	Isoxadifen-Ethyl	50	0.3 oz/a		B							
5	Mesotrione	50	2.5 oz/a		B							
5	COC	100	19.2 oz/a		B							
5	N-PAK AMS	100	1.5 qt/a		B							
6	Cinch ATZ	5.5	1 qt/a		A	100	100	1	0	100	97	100
6	Rimsulfuron	25	1.2 oz/a		B							
6	Isoxadifen-Ethyl	50	0.3 oz/a		B							
6	Mesotrione	50	2.5 oz/a		B							
6	Abundit	4	32 oz/a		B							
6	N-PAK AMS	100	1.5 qt/a		B							
7	Rimsulfuron	25	1 oz/a		A	100	100	8	0	100	89	100
7	Isoxaflutole	75	0.67 oz/a		A							
7	Atrazine	4	1 qt/a		A							

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Pest Type	W Weed	W Weed		W Weed	W Weed	W Weed
Pest Code	HIBTR	POLPY		SETFA	AMBTR	ABUTH
Pest Scientific Name	Hibiscus trion>	Persicaria pen>		Setaria faberi	Ambrosia trifi>	Abutilon theop>
Pest Name	Venice mallow	Pennsylvania s>		Giant foxtail	Giant ragweed	Velvetleaf
Crop Code			ZEAMX	ZEAMX		
BBCH Scale			BCOR	BCOR		
Crop Scientific Name			Zea mays	Zea mays		
Crop Name			Corn	Corn		
Rating Date	6/20/11	6/20/11	6/28/11	7/5/11	7/5/11	7/5/11
Rating Type	CONTROL	CONTROL	PHYGEN	PHYGEN	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	20 20	20 20	28 7	35 14	35 14	35 14
Trt-Eval Interval	20 DA-A	20 DA-A	7 DA-B	14 DA-B	14 DA-B	14 DA-B
Plant-Eval Interval	20 DP-1	20 DP-1	28 DP-1	35 DP-1	35 DP-1	35 DP-1
Days After Emergence	14 DE-1	14 DE-1	22 DE-1	29 DE-1	29 DE-1	29 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	7	8	9	10	11	12	13
7	Rimsulfuron	25	1.2 oz/a		B							
7	Isoxadifen-Ethyl	50	0.3 oz/a		B							
7	Mesotrione	50	2.5 oz/a		B							
7	COC	100	19.2 oz/a		B							
7	N-PAK AMS	100	1.5 qt/a		B							
8	Rimsulfuron	25	1 oz/a		A	97	100	3	0	97	99	100
8	Isoxaflutole	75	0.67 oz/a		A							
8	Rimsulfuron	25	1.2 oz/a		B							
8	Isoxadifen-Ethyl	50	0.3 oz/a		B							
8	Mesotrione	50	2.5 oz/a		B							
8	Atrazine	4	1 qt/a		B							
8	COC	100	19.2 oz/a		B							
8	N-PAK AMS	100	1.5 qt/a		B							
9	Rimsulfuron	25	1 oz/a		A	100	100	0	0	100	100	100
9	Isoxaflutole	75	0.67 oz/a		A							
9	Atrazine	4	1 qt/a		A							
9	Rimsulfuron	25	1.2 oz/a		B							
9	Isoxadifen-Ethyl	50	0.3 oz/a		B							
9	Mesotrione	50	2.5 oz/a		B							
9	Abundit	4	32 oz/a		B							
9	N-PAK AMS	100	1.5 qt/a		B							
10	Rimsulfuron	25	1 oz/a		A	100	100	1	0	100	92	100
10	Isoxaflutole	75	0.67 oz/a		A							
10	Atrazine	4	1 qt/a		A							
10	Abundit	4	32 oz/a		B							
10	N-PAK AMS	100	1.5 qt/a		B							
11	Cinch ATZ	5.5	1 qt/a		A	100	100	1	0	93	63	100
11	Rimsulfuron	25	1.2 oz/a		B							
11	Isoxadifen-Ethyl	50	0.3 oz/a		B							
11	Mesotrione	50	2.5 oz/a		B							
11	Abundit	4	32 oz/a		C							
11	N-PAK AMS	100	1.5 qt/a		C							
12	Halex GT	4.38	3.6 pt/a		B	0	0	1	0	100	100	100
12	NIS	100	4.8 oz/a		B							
12	N-PAK AMS	100	1.5 qt/a		B							
13	Capreno	3.46	3 oz/a		B	0	0	1	0	100	98	100
13	Abundit	4	32 oz/a		B							
13	N-PAK AMS	100	1.5 qt/a		B							
14	UTC					0	0	0	0	0	0	0
LSD (P=.05)						3.7	0.0	1.9	0.0	7.5	14.9	0.0
Standard Deviation						2.2	0.0	1.1	0.0	4.5	8.9	0.0
CV						4.49	0.0	59.91	0.0	5.01	10.58	0.0
Bartlett's X2						0.0	0.0	2.287	0.0	3.937	25.527	0.0
P(Bartlett's X2)						.	.	0.997	.	0.268	0.001*	.
Replicate F						0.481	0.000	2.077	0.000	0.700	0.992	0.000
Replicate Prob(F)						0.6233	1.0000	0.1456	1.0000	0.5059	0.3844	1.0000

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code	HIBTR	POLPY	SETFA	AMBTR	ABUTH		
Pest Scientific Name	Hibiscus trion>	Persicaria pen>	Setaria faberi	Ambrosia trifi>	Abutilon theop>		
Pest Name	Venice mallow	Pennsylvania s>	Giant foxtail	Giant ragweed	Velvetleaf		
Crop Code			ZEAMX	ZEAMX			
BBCH Scale			BCOR	BCOR			
Crop Scientific Name			Zea mays	Zea mays			
Crop Name			Corn	Corn			
Rating Date	6/20/11	6/20/11	6/28/11	7/5/11	7/5/11	7/5/11	
Rating Type	CONTROL	CONTROL	PHYGEN	PHYGEN	CONTROL	CONTROL	
Rating Unit	%	%	%	%	%	%	
Number of Subsamples	1	1	1	1	1	1	
Days After First/Last Applic.	20 20	20 20	28 7	35 14	35 14	35 14	
Trt-Eval Interval	20 DA-A	20 DA-A	7 DA-B	14 DA-B	14 DA-B	14 DA-B	
Plant-Eval Interval	20 DP-1	20 DP-1	28 DP-1	35 DP-1	35 DP-1	35 DP-1	
Days After Emergence	14 DE-1	14 DE-1	22 DE-1	29 DE-1	29 DE-1	29 DE-1	
Number of Decimals	0	0	0	0	0	0	
Trt No.	7	8	9	10	11	12	13
Treatment Name							
Form Conc	1603.111	0.000	15.148	0.000	106.017	30.790	0.000
Other Rate							
Other Rate							
Appl Unit Code							
Treatment Prob(F)	0.0001	1.0000	0.0001	1.0000	0.0001	0.0001	1.0000



# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMARE	POLPY	SIDSP	HIBTR	IPOHE
Pest Scientific Name	Chenopodium al>	Amaranthus ret>	Persicaria pen>	Sida spinosa	Hibiscus trion>	Ipomoea heder>
Pest Name	Common lambsqu>	Redroot pigweed	Pennsylvania s>	Prickly sida	Venice mallow	Ivyleaf mornin>
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date	7/5/11	7/5/11	7/5/11	7/5/11	7/5/11	7/5/11
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	35 14	35 14	35 14	35 14	35 14	35 14
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1
Days After Emergence	29 DE-1	29 DE-1	29 DE-1	29 DE-1	29 DE-1	29 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	14	15	16	17	18	19
1	Rimsulfuron	25	1.2 oz/a		B	82	97	90	53	98	93
1	Isoxadifen-Ethyl	50	0.3 oz/a		B						
1	Mesotrione	50	2.5 oz/a		B						
1	COC	100	19.2 oz/a		B						
1	Abundit	4	32 oz/a		C						
1	N-PAK AMS	100	1.5 qt/a		C						
2	Rimsulfuron	25	1.2 oz/a		B	100	100	100	100	100	100
2	Isoxadifen-Ethyl	50	0.3 oz/a		B						
2	Mesotrione	50	2.5 oz/a		B						
2	Abundit	4	32 oz/a		B						
2	N-PAK AMS	100	1.5 qt/a		B						
3	Rimsulfuron	25	1.2 oz/a		B	100	100	100	100	100	100
3	Isoxadifen-Ethyl	50	0.3 oz/a		B						
3	Mesotrione	50	2.5 oz/a		B						
3	Abundit	4	32 oz/a		B						
3	Atrazine	4	1 qt/a		B						
3	N-PAK AMS	100	1.5 qt/a		B						
4	Rimsulfuron	25	1.2 oz/a		B	100	100	100	100	100	100
4	Isoxadifen-Ethyl	50	0.3 oz/a		B						
4	Mesotrione	50	2.5 oz/a		B						
4	Atrazine	4	1 qt/a		B						
4	COC	100	19.2 oz/a		B						
4	N-PAK AMS	100	1.5 qt/a		B						
4	Abundit	4	32 oz/a		C						
4	N-PAK AMS	100	1.5 qt/a		C						
5	Cinch ATZ	5.5	1 qt/a		A	100	100	100	100	100	100
5	Rimsulfuron	25	1.2 oz/a		B						
5	Isoxadifen-Ethyl	50	0.3 oz/a		B						
5	Mesotrione	50	2.5 oz/a		B						
5	COC	100	19.2 oz/a		B						
5	N-PAK AMS	100	1.5 qt/a		B						
6	Cinch ATZ	5.5	1 qt/a		A	100	100	100	100	100	100
6	Rimsulfuron	25	1.2 oz/a		B						
6	Isoxadifen-Ethyl	50	0.3 oz/a		B						
6	Mesotrione	50	2.5 oz/a		B						
6	Abundit	4	32 oz/a		B						
6	N-PAK AMS	100	1.5 qt/a		B						
7	Rimsulfuron	25	1 oz/a		A	100	100	100	100	100	100
7	Isoxaflutole	75	0.67 oz/a		A						
7	Atrazine	4	1 qt/a		A						

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMARE	POLPY	SIDSP	HIBTR	IPOHE
Pest Scientific Name	Chenopodium al-	Amaranthus ret>	Persicaria pen>	Sida spinosa	Hibiscus trion>	Ipomoea heder>
Pest Name	Common lambsqu>	Redroot pigweed	Pennsylvania s>	Prickly sida	Venice mallow	Ivyleaf mornin>
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date	7/5/11	7/5/11	7/5/11	7/5/11	7/5/11	7/5/11
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	35 14	35 14	35 14	35 14	35 14	35 14
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1
Days After Emergence	29 DE-1	29 DE-1	29 DE-1	29 DE-1	29 DE-1	29 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	14	15	16	17	18	19
7	Rimsulfuron	25	1.2 oz/a		B						
7	Isoxadifen-Ethyl	50	0.3 oz/a		B						
7	Mesotrione	50	2.5 oz/a		B						
7	COC	100	19.2 oz/a		B						
7	N-PAK AMS	100	1.5 qt/a		B						
8	Rimsulfuron	25	1 oz/a		A	100	100	100	100	100	100
8	Isoxaflutole	75	0.67 oz/a		A						
8	Rimsulfuron	25	1.2 oz/a		B						
8	Isoxadifen-Ethyl	50	0.3 oz/a		B						
8	Mesotrione	50	2.5 oz/a		B						
8	Atrazine	4	1 qt/a		B						
8	COC	100	19.2 oz/a		B						
8	N-PAK AMS	100	1.5 qt/a		B						
9	Rimsulfuron	25	1 oz/a		A	100	100	100	100	100	100
9	Isoxaflutole	75	0.67 oz/a		A						
9	Atrazine	4	1 qt/a		A						
9	Rimsulfuron	25	1.2 oz/a		B						
9	Isoxadifen-Ethyl	50	0.3 oz/a		B						
9	Mesotrione	50	2.5 oz/a		B						
9	Abundit	4	32 oz/a		B						
9	N-PAK AMS	100	1.5 qt/a		B						
10	Rimsulfuron	25	1 oz/a		A	100	100	100	100	100	100
10	Isoxaflutole	75	0.67 oz/a		A						
10	Atrazine	4	1 qt/a		A						
10	Abundit	4	32 oz/a		B						
10	N-PAK AMS	100	1.5 qt/a		B						
11	Cinch ATZ	5.5	1 qt/a		A	53	100	100	100	100	100
11	Rimsulfuron	25	1.2 oz/a		B						
11	Isoxadifen-Ethyl	50	0.3 oz/a		B						
11	Mesotrione	50	2.5 oz/a		B						
11	Abundit	4	32 oz/a		C						
11	N-PAK AMS	100	1.5 qt/a		C						
12	Halex GT	4.38	3.6 pt/a		B	100	100	100	100	100	100
12	NIS	100	4.8 oz/a		B						
12	N-PAK AMS	100	1.5 qt/a		B						
13	Capreno	3.46	3 oz/a		B	100	100	100	100	100	92
13	Abundit	4	32 oz/a		B						
13	N-PAK AMS	100	1.5 qt/a		B						
14	UTC					0	0	0	0	0	0
LSD (P=.05)						7.6	2.6	7.8	2.6	1.3	7.2
Standard Deviation						4.5	1.5	4.6	1.5	0.8	4.3
CV						5.1	1.67	5.02	1.72	0.83	4.66
Bartlett's X2						1.705	0.0	0.0	0.0	0.0	0.009
P(Bartlett's X2)						0.192	.	.	.	.	0.924
Replicate F						0.798	1.000	1.000	1.000	1.000	0.609
Replicate Prob(F)						0.4611	0.3816	0.3816	0.3816	0.3816	0.5516

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMARE	POLPY	SIDSP	HIBTR	IPOHE
Pest Scientific Name	Chenopodium al>	Amaranthus ret>	Persicaria pen>	Sida spinosa	Hibiscus trion>	Ipomoea heder>
Pest Name	Common lambsqu>	Redroot pigweed	Pennsylvania s>	Prickly sida	Venice mallow	Ivyleaf mornin>
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date	7/5/11	7/5/11	7/5/11	7/5/11	7/5/11	7/5/11
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	35 14	35 14	35 14	35 14	35 14	35 14
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1	35 DP-1
Days After Emergence	29 DE-1	29 DE-1	29 DE-1	29 DE-1	29 DE-1	29 DE-1
Number of Decimals	0	0	0	0	0	0
Trt Treatment	Form Other Other	Appl				
No. Name	Conc Rate Rate Unit Code		14	15	16	17
Treatment F			120.238	896.385	99.462	1031.385
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001
						3591.770
						115.340

# Ohio State University Horticulture and Crop Science

Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	ABUTH	CHEAL	AMARE
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Abutilon theop>	Chenopodium al>	Amaranthus ret>
Pest Name		Giant foxtail	Giant ragweed	Velvetleaf	Common lambsqu>	Redroot pigweed
Crop Code	ZEAMX					
BBCH Scale	BCOR					
Crop Scientific Name	Zea mays					
Crop Name	Corn					
Rating Date	7/18/11	7/18/11	7/18/11	7/18/11	7/18/11	7/18/11
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	48 11	48 11	48 11	48 11	48 11	48 11
Trt-Eval Interval	27 DA-B	27 DA-B	27 DA-B	27 DA-B	27 DA-B	27 DA-B
Plant-Eval Interval	48 DP-1	48 DP-1	48 DP-1	48 DP-1	48 DP-1	48 DP-1
Days After Emergence	42 DE-1	42 DE-1	42 DE-1	42 DE-1	42 DE-1	42 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	20	21	22	23	24	25
1	Rimsulfuron	25	1.2 oz/a		B	0	99	73	100	100	100
1	Isoxadifen-Ethyl	50	0.3 oz/a		B						
1	Mesotrione	50	2.5 oz/a		B						
1	COC	100	19.2 oz/a		B						
1	Abundit	4	32 oz/a		C						
1	N-PAK AMS	100	1.5 qt/a		C						
2	Rimsulfuron	25	1.2 oz/a		B	0	100	100	100	100	100
2	Isoxadifen-Ethyl	50	0.3 oz/a		B						
2	Mesotrione	50	2.5 oz/a		B						
2	Abundit	4	32 oz/a		B						
2	N-PAK AMS	100	1.5 qt/a		B						
3	Rimsulfuron	25	1.2 oz/a		B	0	100	100	100	100	100
3	Isoxadifen-Ethyl	50	0.3 oz/a		B						
3	Mesotrione	50	2.5 oz/a		B						
3	Abundit	4	32 oz/a		B						
3	Atrazine	4	1 qt/a		B						
3	N-PAK AMS	100	1.5 qt/a		B						
4	Rimsulfuron	25	1.2 oz/a		B	0	100	100	100	100	100
4	Isoxadifen-Ethyl	50	0.3 oz/a		B						
4	Mesotrione	50	2.5 oz/a		B						
4	Atrazine	4	1 qt/a		B						
4	COC	100	19.2 oz/a		B						
4	N-PAK AMS	100	1.5 qt/a		B						
4	Abundit	4	32 oz/a		C						
4	N-PAK AMS	100	1.5 qt/a		C						
5	Cinch ATZ	5.5	1 qt/a		A	0	100	87	100	100	100
5	Rimsulfuron	25	1.2 oz/a		B						
5	Isoxadifen-Ethyl	50	0.3 oz/a		B						
5	Mesotrione	50	2.5 oz/a		B						
5	COC	100	19.2 oz/a		B						
5	N-PAK AMS	100	1.5 qt/a		B						
6	Cinch ATZ	5.5	1 qt/a		A	0	100	97	100	100	100
6	Rimsulfuron	25	1.2 oz/a		B						
6	Isoxadifen-Ethyl	50	0.3 oz/a		B						
6	Mesotrione	50	2.5 oz/a		B						
6	Abundit	4	32 oz/a		B						
6	N-PAK AMS	100	1.5 qt/a		B						
7	Rimsulfuron	25	1 oz/a		A	0	99	87	100	100	100
7	Isoxaflutole	75	0.67 oz/a		A						
7	Atrazine	4	1 qt/a		A						

# Ohio State University Horticulture and Crop Science

Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	ABUTH	CHEAL	AMARE
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Abutilon theop>	Chenopodium al>	Amaranthus ret>
Pest Name		Giant foxtail	Giant ragweed	Velvetleaf	Common lambsqu>	Redroot pigweed
Crop Code	ZEAMX					
BBCH Scale	BCOR					
Crop Scientific Name	Zea mays					
Crop Name	Corn					
Rating Date	7/18/11	7/18/11	7/18/11	7/18/11	7/18/11	7/18/11
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	48 11	48 11	48 11	48 11	48 11	48 11
Trt-Eval Interval	27 DA-B	27 DA-B	27 DA-B	27 DA-B	27 DA-B	27 DA-B
Plant-Eval Interval	48 DP-1	48 DP-1	48 DP-1	48 DP-1	48 DP-1	48 DP-1
Days After Emergence	42 DE-1	42 DE-1	42 DE-1	42 DE-1	42 DE-1	42 DE-1
Number of Decimals	0	0	0	0	0	0

Trt	Treatment	Form	Other	Other	Appl	20	21	22	23	24	25
No.	Name	Conc	Rate	Rate	Unit Code						
7	Rimsulfuron	25	1.2 oz/a		B						
7	Isoxadifen-Ethyl	50	0.3 oz/a		B						
7	Mesotrione	50	2.5 oz/a		B						
7	COC	100	19.2 oz/a		B						
7	N-PAK AMS	100	1.5 qt/a		B						
8	Rimsulfuron	25	1 oz/a		A	0	100	100	100	100	100
8	Isoxaflutole	75	0.67 oz/a		A						
8	Rimsulfuron	25	1.2 oz/a		B						
8	Isoxadifen-Ethyl	50	0.3 oz/a		B						
8	Mesotrione	50	2.5 oz/a		B						
8	Atrazine	4	1 qt/a		B						
8	COC	100	19.2 oz/a		B						
8	N-PAK AMS	100	1.5 qt/a		B						
9	Rimsulfuron	25	1 oz/a		A	0	100	100	100	100	100
9	Isoxaflutole	75	0.67 oz/a		A						
9	Atrazine	4	1 qt/a		A						
9	Rimsulfuron	25	1.2 oz/a		B						
9	Isoxadifen-Ethyl	50	0.3 oz/a		B						
9	Mesotrione	50	2.5 oz/a		B						
9	Abundit	4	32 oz/a		B						
9	N-PAK AMS	100	1.5 qt/a		B						
10	Rimsulfuron	25	1 oz/a		A	0	100	98	100	100	100
10	Isoxaflutole	75	0.67 oz/a		A						
10	Atrazine	4	1 qt/a		A						
10	Abundit	4	32 oz/a		B						
10	N-PAK AMS	100	1.5 qt/a		B						
11	Cinch ATZ	5.5	1 qt/a		A	0	100	93	100	97	100
11	Rimsulfuron	25	1.2 oz/a		B						
11	Isoxadifen-Ethyl	50	0.3 oz/a		B						
11	Mesotrione	50	2.5 oz/a		B						
11	Abundit	4	32 oz/a		C						
11	N-PAK AMS	100	1.5 qt/a		C						
12	Halex GT	4.38	3.6 pt/a		B	0	100	99	100	100	100
12	NIS	100	4.8 oz/a		B						
12	N-PAK AMS	100	1.5 qt/a		B						
13	Capreno	3.46	3 oz/a		B	0	100	97	100	99	100
13	Abundit	4	32 oz/a		B						
13	N-PAK AMS	100	1.5 qt/a		B						
14	UTC					0	0	0	0	0	0
LSD (P=.05)						0.0	0.9	10.5	0.0	2.7	0.0
Standard Deviation						0.0	0.5	6.2	0.0	1.6	0.0
CV						0.0	0.58	7.1	0.0	1.76	0.0
Bartlett's X2						0.0	0.565	11.803	0.0	2.346	0.0
P(Bartlett's X2)						.	0.452	0.107	.	0.126	.
Replicate F						0.000	1.000	0.079	0.000	0.710	0.000
Replicate Prob(F)						1.0000	0.3816	0.9244	1.0000	0.5011	1.0000

# Ohio State University Horticulture and Crop Science

Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	ABUTH	CHEAL	AMARE
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Abutilon theop>	Chenopodium al>	Amaranthus ret>
Pest Name		Giant foxtail	Giant ragweed	Velvetleaf	Common lambsqu>	Redroot pigweed
Crop Code	ZEAMX					
BBCH Scale	BCOR					
Crop Scientific Name	Zea mays					
Crop Name	Corn					
Rating Date	7/18/11	7/18/11	7/18/11	7/18/11	7/18/11	7/18/11
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	48 11	48 11	48 11	48 11	48 11	48 11
Trt-Eval Interval	27 DA-B	27 DA-B	27 DA-B	27 DA-B	27 DA-B	27 DA-B
Plant-Eval Interval	48 DP-1	48 DP-1	48 DP-1	48 DP-1	48 DP-1	48 DP-1
Days After Emergence	42 DE-1	42 DE-1	42 DE-1	42 DE-1	42 DE-1	42 DE-1
Number of Decimals	0	0	0	0	0	0
Trt Treatment	Form Other Other	Appl				
No. Name	Conc Rate Rate Unit Code	20	21	22	23	24
Treatment F		0.000	7478.308	53.868	0.000	804.117
Treatment Prob(F)		1.0000	0.0001	0.0001	1.0000	0.0001
						25
						0.000
						1.0000

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed					
Pest Code	POLPY	SIDSP	HIBTR	IPHOE	SETFA	AMBTR					
Pest Scientific Name	Persicaria pen>	Sida spinosa	Hibiscus trion>	Ipomoea hедера>	Setaria faberi	Ambrosia trifi>					
Pest Name	Pennsylvania s>	Prickly sida	Venice mallow	Ivyleaf mornin>	Giant foxtail	Giant ragweed					
Crop Code											
BBCH Scale											
Crop Scientific Name											
Crop Name											
Rating Date	7/18/11	7/18/11	7/18/11	7/18/11	8/1/11	8/1/11					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%	%					
Number of Subsamples	1	1	1	1	1	1					
Days After First/Last Applic.	48 11	48 11	48 11	48 11	62 25	62 25					
Trt-Eval Interval	27 DA-B	27 DA-B	27 DA-B	27 DA-B	25 DA-C	25 DA-C					
Plant-Eval Interval	48 DP-1	48 DP-1	48 DP-1	48 DP-1	62 DP-1	62 DP-1					
Days After Emergence	42 DE-1	42 DE-1	42 DE-1	42 DE-1	56 DE-1	56 DE-1					
Number of Decimals	0	0	0	0	0	0					
Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	26	27	28	29	30	31
1	Rimsulfuron	25	1.2 oz/a		B	100	100	100	100	100	83
1	Isoxadifen-Ethyl	50	0.3 oz/a		B						
1	Mesotrione	50	2.5 oz/a		B						
1	COC	100	19.2 oz/a		B						
1	Abundit	4	32 oz/a		C						
1	N-PAK AMS	100	1.5 qt/a		C						
2	Rimsulfuron	25	1.2 oz/a		B	100	100	100	100	98	98
2	Isoxadifen-Ethyl	50	0.3 oz/a		B						
2	Mesotrione	50	2.5 oz/a		B						
2	Abundit	4	32 oz/a		B						
2	N-PAK AMS	100	1.5 qt/a		B						
3	Rimsulfuron	25	1.2 oz/a		B	100	100	100	100	100	100
3	Isoxadifen-Ethyl	50	0.3 oz/a		B						
3	Mesotrione	50	2.5 oz/a		B						
3	Abundit	4	32 oz/a		B						
3	Atrazine	4	1 qt/a		B						
3	N-PAK AMS	100	1.5 qt/a		B						
4	Rimsulfuron	25	1.2 oz/a		B	100	100	100	100	100	100
4	Isoxadifen-Ethyl	50	0.3 oz/a		B						
4	Mesotrione	50	2.5 oz/a		B						
4	Atrazine	4	1 qt/a		B						
4	COC	100	19.2 oz/a		B						
4	N-PAK AMS	100	1.5 qt/a		B						
4	Abundit	4	32 oz/a		C						
4	N-PAK AMS	100	1.5 qt/a		C						
5	Cinch ATZ	5.5	1 qt/a		A	100	100	100	100	99	93
5	Rimsulfuron	25	1.2 oz/a		B						
5	Isoxadifen-Ethyl	50	0.3 oz/a		B						
5	Mesotrione	50	2.5 oz/a		B						
5	COC	100	19.2 oz/a		B						
5	N-PAK AMS	100	1.5 qt/a		B						
6	Cinch ATZ	5.5	1 qt/a		A	100	100	100	100	100	98
6	Rimsulfuron	25	1.2 oz/a		B						
6	Isoxadifen-Ethyl	50	0.3 oz/a		B						
6	Mesotrione	50	2.5 oz/a		B						
6	Abundit	4	32 oz/a		B						
6	N-PAK AMS	100	1.5 qt/a		B						
7	Rimsulfuron	25	1 oz/a		A	100	100	100	100	95	93
7	Isoxaflutole	75	0.67 oz/a		A						
7	Atrazine	4	1 qt/a		A						

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed						
Pest Code	POLPY	SIDSP	HIBTR	IPOHE	SETFA	AMBTR						
Pest Scientific Name	Persicaria pen>	Sida spinosa	Hibiscus trion>	Ipomoea hедера>	Setaria faberi	Ambrosia trifi>						
Pest Name	Pennsylvania s>	Prickly sida	Venice mallow	Ivyleaf mornin>	Giant foxtail	Giant ragweed						
Crop Code												
BCH Scale												
Crop Scientific Name												
Crop Name												
Rating Date	7/18/11	7/18/11	7/18/11	7/18/11	8/1/11	8/1/11						
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO						
Rating Unit	%	%	%	%	%	%						
Number of Subsamples	1	1	1	1	1	1						
Days After First/Last Applic.	48 11	48 11	48 11	48 11	62 25	62 25						
Trt-Eval Interval	27 DA-B	27 DA-B	27 DA-B	27 DA-B	25 DA-C	25 DA-C						
Plant-Eval Interval	48 DP-1	48 DP-1	48 DP-1	48 DP-1	62 DP-1	62 DP-1						
Days After Emergence	42 DE-1	42 DE-1	42 DE-1	42 DE-1	56 DE-1	56 DE-1						
Number of Decimals	0	0	0	0	0	0						
Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit	Code	26	27	28	29	30	31
7	Rimsulfuron	25	1.2 oz/a		B							
7	Isoxadifen-Ethyl	50	0.3 oz/a		B							
7	Mesotrione	50	2.5 oz/a		B							
7	COC	100	19.2 oz/a		B							
7	N-PAK AMS	100	1.5 qt/a		B							
8	Rimsulfuron	25	1 oz/a		A		100	100	100	100	98	100
8	Isoxaflutole	75	0.67 oz/a		A							
8	Rimsulfuron	25	1.2 oz/a		B							
8	Isoxadifen-Ethyl	50	0.3 oz/a		B							
8	Mesotrione	50	2.5 oz/a		B							
8	Atrazine	4	1 qt/a		B							
8	COC	100	19.2 oz/a		B							
8	N-PAK AMS	100	1.5 qt/a		B							
9	Rimsulfuron	25	1 oz/a		A		100	100	100	100	98	97
9	Isoxaflutole	75	0.67 oz/a		A							
9	Atrazine	4	1 qt/a		A							
9	Rimsulfuron	25	1.2 oz/a		B							
9	Isoxadifen-Ethyl	50	0.3 oz/a		B							
9	Mesotrione	50	2.5 oz/a		B							
9	Abundit	4	32 oz/a		B							
9	N-PAK AMS	100	1.5 qt/a		B							
10	Rimsulfuron	25	1 oz/a		A		100	100	100	100	99	96
10	Isoxaflutole	75	0.67 oz/a		A							
10	Atrazine	4	1 qt/a		A							
10	Abundit	4	32 oz/a		B							
10	N-PAK AMS	100	1.5 qt/a		B							
11	Cinch ATZ	5.5	1 qt/a		A		100	100	100	100	100	100
11	Rimsulfuron	25	1.2 oz/a		B							
11	Isoxadifen-Ethyl	50	0.3 oz/a		B							
11	Mesotrione	50	2.5 oz/a		B							
11	Abundit	4	32 oz/a		C							
11	N-PAK AMS	100	1.5 qt/a		C							
12	Halex GT	4.38	3.6 pt/a		B		100	100	100	100	99	95
12	NIS	100	4.8 oz/a		B							
12	N-PAK AMS	100	1.5 qt/a		B							
13	Capreno	3.46	3 oz/a		B		100	100	100	100	99	99
13	Abundit	4	32 oz/a		B							
13	N-PAK AMS	100	1.5 qt/a		B							
14	UTC						0	0	0	0	0	0
LSD (P=.05)							0.0	0.0	0.0	0.0	3.3	8.2
Standard Deviation							0.0	0.0	0.0	0.0	2.0	4.9
CV							0.0	0.0	0.0	0.0	2.15	5.45
Bartlett's X2							0.0	0.0	0.0	0.0	14.366	13.797
P(Bartlett's X2)							.	.	.	.	0.073	0.087
Replicate F							0.000	0.000	0.000	0.000	0.684	0.336
Replicate Prob(F)							1.0000	1.0000	1.0000	1.0000	0.5133	0.7175



# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	POLPY	SIDSP	HIBTR	IPOHE	SETFA	AMBTR
Pest Scientific Name	Persicaria pen>	Sida spinosa	Hibiscus trion>	Ipomoea hедера>	Setaria faberi	Ambrosia trifi>
Pest Name	Pennsylvania s>	Prickly sida	Venice mallow	Ivyleaf mornin>	Giant foxtail	Giant ragweed
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date	7/18/11	7/18/11	7/18/11	7/18/11	8/1/11	8/1/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	48 11	48 11	48 11	48 11	62 25	62 25
Trt-Eval Interval	27 DA-B	27 DA-B	27 DA-B	27 DA-B	25 DA-C	25 DA-C
Plant-Eval Interval	48 DP-1	48 DP-1	48 DP-1	48 DP-1	62 DP-1	62 DP-1
Days After Emergence	42 DE-1	42 DE-1	42 DE-1	42 DE-1	56 DE-1	56 DE-1
Number of Decimals	0	0	0	0	0	0
Trt No.	26	27	28	29	30	31
Treatment Name						
Form Conc						
Other Rate						
Other Rate						
Appl Unit Code						
Treatment F	0.000	0.000	0.000	0.000	538.773	86.224
Treatment Prob(F)	1.0000	1.0000	1.0000	1.0000	0.0001	0.0001

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ABUTH	CHEAL	AMARE	POLPY	SIDSP	HIBTR
Pest Scientific Name	Abutilon theop>	Chenopodium al>	Amaranthus ret>	Persicaria pen>	Sida spinosa	Hibiscus trion>
Pest Name	Velvetleaf	Common lambsqu>	Redroot pigweed	Pennsylvania s>	Prickly sida	Venice mallow
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date	8/1/11	8/1/11	8/1/11	8/1/11	8/1/11	8/1/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	62 25	62 25	62 25	62 25	62 25	62 25
Trt-Eval Interval	25 DA-C	25 DA-C	25 DA-C	25 DA-C	25 DA-C	25 DA-C
Plant-Eval Interval	62 DP-1	62 DP-1	62 DP-1	62 DP-1	62 DP-1	62 DP-1
Days After Emergence	56 DE-1	56 DE-1	56 DE-1	56 DE-1	56 DE-1	56 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	32	33	34	35	36	37
1	Rimsulfuron	25	1.2 oz/a		B	100	100	100	100	100	100
1	Isoxadifen-Ethyl	50	0.3 oz/a		B						
1	Mesotrione	50	2.5 oz/a		B						
1	COC	100	19.2 oz/a		B						
1	Abundit	4	32 oz/a		C						
1	N-PAK AMS	100	1.5 qt/a		C						
2	Rimsulfuron	25	1.2 oz/a		B	100	100	100	100	100	100
2	Isoxadifen-Ethyl	50	0.3 oz/a		B						
2	Mesotrione	50	2.5 oz/a		B						
2	Abundit	4	32 oz/a		B						
2	N-PAK AMS	100	1.5 qt/a		B						
3	Rimsulfuron	25	1.2 oz/a		B	100	100	100	100	100	100
3	Isoxadifen-Ethyl	50	0.3 oz/a		B						
3	Mesotrione	50	2.5 oz/a		B						
3	Abundit	4	32 oz/a		B						
3	Atrazine	4	1 qt/a		B						
3	N-PAK AMS	100	1.5 qt/a		B						
4	Rimsulfuron	25	1.2 oz/a		B	100	100	100	100	100	100
4	Isoxadifen-Ethyl	50	0.3 oz/a		B						
4	Mesotrione	50	2.5 oz/a		B						
4	Atrazine	4	1 qt/a		B						
4	COC	100	19.2 oz/a		B						
4	N-PAK AMS	100	1.5 qt/a		B						
4	Abundit	4	32 oz/a		C						
4	N-PAK AMS	100	1.5 qt/a		C						
5	Cinch ATZ	5.5	1 qt/a		A	100	100	100	100	100	100
5	Rimsulfuron	25	1.2 oz/a		B						
5	Isoxadifen-Ethyl	50	0.3 oz/a		B						
5	Mesotrione	50	2.5 oz/a		B						
5	COC	100	19.2 oz/a		B						
5	N-PAK AMS	100	1.5 qt/a		B						
6	Cinch ATZ	5.5	1 qt/a		A	100	100	100	100	100	100
6	Rimsulfuron	25	1.2 oz/a		B						
6	Isoxadifen-Ethyl	50	0.3 oz/a		B						
6	Mesotrione	50	2.5 oz/a		B						
6	Abundit	4	32 oz/a		B						
6	N-PAK AMS	100	1.5 qt/a		B						
7	Rimsulfuron	25	1 oz/a		A	100	100	100	100	100	100
7	Isoxaflutole	75	0.67 oz/a		A						
7	Atrazine	4	1 qt/a		A						

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ABUTH	CHEAL	AMARE	POLPY	SIDSP	HIBTR
Pest Scientific Name	Abutilon theop>	Chenopodium al>	Amaranthus ret>	Persicaria pen>	Sida spinosa	Hibiscus trion>
Pest Name	Velvetleaf	Common lambsqu>	Redroot pigweed	Pennsylvania s>	Prickly sida	Venice mallow
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date	8/1/11	8/1/11	8/1/11	8/1/11	8/1/11	8/1/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	62 25	62 25	62 25	62 25	62 25	62 25
Trt-Eval Interval	25 DA-C	25 DA-C	25 DA-C	25 DA-C	25 DA-C	25 DA-C
Plant-Eval Interval	62 DP-1	62 DP-1	62 DP-1	62 DP-1	62 DP-1	62 DP-1
Days After Emergence	56 DE-1	56 DE-1	56 DE-1	56 DE-1	56 DE-1	56 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	32	33	34	35	36	37
7	Rimsulfuron	25	1.2 oz/a		B						
7	Isoxadifen-Ethyl	50	0.3 oz/a		B						
7	Mesotrione	50	2.5 oz/a		B						
7	COC	100	19.2 oz/a		B						
7	N-PAK AMS	100	1.5 qt/a		B						
8	Rimsulfuron	25	1 oz/a		A	100	100	100	100	100	100
8	Isoxaflutole	75	0.67 oz/a		A						
8	Rimsulfuron	25	1.2 oz/a		B						
8	Isoxadifen-Ethyl	50	0.3 oz/a		B						
8	Mesotrione	50	2.5 oz/a		B						
8	Atrazine	4	1 qt/a		B						
8	COC	100	19.2 oz/a		B						
8	N-PAK AMS	100	1.5 qt/a		B						
9	Rimsulfuron	25	1 oz/a		A	100	99	100	100	100	100
9	Isoxaflutole	75	0.67 oz/a		A						
9	Atrazine	4	1 qt/a		A						
9	Rimsulfuron	25	1.2 oz/a		B						
9	Isoxadifen-Ethyl	50	0.3 oz/a		B						
9	Mesotrione	50	2.5 oz/a		B						
9	Abundit	4	32 oz/a		B						
9	N-PAK AMS	100	1.5 qt/a		B						
10	Rimsulfuron	25	1 oz/a		A	100	95	100	100	100	100
10	Isoxaflutole	75	0.67 oz/a		A						
10	Atrazine	4	1 qt/a		A						
10	Abundit	4	32 oz/a		B						
10	N-PAK AMS	100	1.5 qt/a		B						
11	Cinch ATZ	5.5	1 qt/a		A	100	95	100	100	100	100
11	Rimsulfuron	25	1.2 oz/a		B						
11	Isoxadifen-Ethyl	50	0.3 oz/a		B						
11	Mesotrione	50	2.5 oz/a		B						
11	Abundit	4	32 oz/a		C						
11	N-PAK AMS	100	1.5 qt/a		C						
12	Halex GT	4.38	3.6 pt/a		B	100	100	100	100	98	100
12	NIS	100	4.8 oz/a		B						
12	N-PAK AMS	100	1.5 qt/a		B						
13	Capreno	3.46	3 oz/a		B	100	100	100	100	99	100
13	Abundit	4	32 oz/a		B						
13	N-PAK AMS	100	1.5 qt/a		B						
14	UTC					0	0	0	0	0	0
LSD (P=.05)						0.0	5.7	0.0	0.0	1.4	0.0
Standard Deviation						0.0	3.4	0.0	0.0	0.9	0.0
CV						0.0	3.67	0.0	0.0	0.92	0.0
Bartlett's X2						0.0	12.861	0.0	0.0	1.46	0.0
P(Bartlett's X2)						.	0.005*	.	.	0.227	.
Replicate F						0.000	0.301	0.000	0.000	0.295	0.000
Replicate Prob(F)						1.0000	0.7429	1.0000	1.0000	0.7472	1.0000

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ABUTH	CHEAL	AMARE	POLPY	SIDSP	HIBTR
Pest Scientific Name	Abutilon theop>	Chenopodium al>	Amaranthus ret>	Persicaria pen>	Sida spinosa	Hibiscus trion>
Pest Name	Velvetleaf	Common lambsqu>	Redroot pigweed	Pennsylvania s>	Prickly sida	Venice mallow
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date	8/1/11	8/1/11	8/1/11	8/1/11	8/1/11	8/1/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	62 25	62 25	62 25	62 25	62 25	62 25
Trt-Eval Interval	25 DA-C	25 DA-C	25 DA-C	25 DA-C	25 DA-C	25 DA-C
Plant-Eval Interval	62 DP-1	62 DP-1	62 DP-1	62 DP-1	62 DP-1	62 DP-1
Days After Emergence	56 DE-1	56 DE-1	56 DE-1	56 DE-1	56 DE-1	56 DE-1
Number of Decimals	0	0	0	0	0	0
Trt Treatment	Form Other Other	Appl				
No. Name	Conc Rate Rate Unit Code					
	32	33	34	35	36	37
Treatment F	0.000	185.590	0.000	0.000	2934.743	0.000
Treatment Prob(F)	1.0000	0.0001	1.0000	1.0000	0.0001	1.0000

## Ohio State University Horticulture and Crop Science

Pest Type	W Weed
Pest Code	IPOHE
Pest Scientific Name	Ipomoea hederata>
Pest Name	Ivyleaf mornin>
Crop Code	
BBCH Scale	
Crop Scientific Name	
Crop Name	
Rating Date	8/1/11
Rating Type	CONTRO
Rating Unit	%
Number of Subsamples	1
Days After First/Last Applic.	62 25
Trt-Eval Interval	25 DA-C
Plant-Eval Interval	62 DP-1
Days After Emergence	56 DE-1
Number of Decimals	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	38
1	Rimsulfuron	25	1.2 oz/a		B	98
1	Isoxadifen-Ethyl	50	0.3 oz/a		B	
1	Mesotrione	50	2.5 oz/a		B	
1	COC	100	19.2 oz/a		B	
1	Abundit	4	32 oz/a		C	
1	N-PAK AMS	100	1.5 qt/a		C	
2	Rimsulfuron	25	1.2 oz/a		B	100
2	Isoxadifen-Ethyl	50	0.3 oz/a		B	
2	Mesotrione	50	2.5 oz/a		B	
2	Abundit	4	32 oz/a		B	
2	N-PAK AMS	100	1.5 qt/a		B	
3	Rimsulfuron	25	1.2 oz/a		B	98
3	Isoxadifen-Ethyl	50	0.3 oz/a		B	
3	Mesotrione	50	2.5 oz/a		B	
3	Abundit	4	32 oz/a		B	
3	Atrazine	4	1 qt/a		B	
3	N-PAK AMS	100	1.5 qt/a		B	
4	Rimsulfuron	25	1.2 oz/a		B	100
4	Isoxadifen-Ethyl	50	0.3 oz/a		B	
4	Mesotrione	50	2.5 oz/a		B	
4	Atrazine	4	1 qt/a		B	
4	COC	100	19.2 oz/a		B	
4	N-PAK AMS	100	1.5 qt/a		B	
4	Abundit	4	32 oz/a		C	
4	N-PAK AMS	100	1.5 qt/a		C	
5	Cinch ATZ	5.5	1 qt/a		A	99
5	Rimsulfuron	25	1.2 oz/a		B	
5	Isoxadifen-Ethyl	50	0.3 oz/a		B	
5	Mesotrione	50	2.5 oz/a		B	
5	COC	100	19.2 oz/a		B	
5	N-PAK AMS	100	1.5 qt/a		B	
6	Cinch ATZ	5.5	1 qt/a		A	100
6	Rimsulfuron	25	1.2 oz/a		B	
6	Isoxadifen-Ethyl	50	0.3 oz/a		B	
6	Mesotrione	50	2.5 oz/a		B	
6	Abundit	4	32 oz/a		B	
6	N-PAK AMS	100	1.5 qt/a		B	
7	Rimsulfuron	25	1 oz/a		A	100
7	Isoxaflutole	75	0.67 oz/a		A	
7	Atrazine	4	1 qt/a		A	

# Ohio State University Horticulture and Crop Science

Pest Type W Weed  
 Pest Code IPOHE  
 Pest Scientific Name Ipomoea hederata>  
 Pest Name Ivyleaf mornin>  
 Crop Code  
 BBCH Scale  
 Crop Scientific Name  
 Crop Name  
 Rating Date 8/1/11  
 Rating Type CONTRO  
 Rating Unit %  
 Number of Subsamples 1  
 Days After First/Last Applic. 62 25  
 Trt-Eval Interval 25 DA-C  
 Plant-Eval Interval 62 DP-1  
 Days After Emergence 56 DE-1  
 Number of Decimals 0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate Unit	Appl Code	
						38
7	Rimsulfuron	25	1.2 oz/a		B	
7	Isoxadifen-Ethyl	50	0.3 oz/a		B	
7	Mesotrione	50	2.5 oz/a		B	
7	COC	100	19.2 oz/a		B	
7	N-PAK AMS	100	1.5 qt/a		B	
8	Rimsulfuron	25	1 oz/a		A	100
8	Isoxaflutole	75	0.67 oz/a		A	
8	Rimsulfuron	25	1.2 oz/a		B	
8	Isoxadifen-Ethyl	50	0.3 oz/a		B	
8	Mesotrione	50	2.5 oz/a		B	
8	Atrazine	4	1 qt/a		B	
8	COC	100	19.2 oz/a		B	
8	N-PAK AMS	100	1.5 qt/a		B	
9	Rimsulfuron	25	1 oz/a		A	100
9	Isoxaflutole	75	0.67 oz/a		A	
9	Atrazine	4	1 qt/a		A	
9	Rimsulfuron	25	1.2 oz/a		B	
9	Isoxadifen-Ethyl	50	0.3 oz/a		B	
9	Mesotrione	50	2.5 oz/a		B	
9	Abundit	4	32 oz/a		B	
9	N-PAK AMS	100	1.5 qt/a		B	
10	Rimsulfuron	25	1 oz/a		A	100
10	Isoxaflutole	75	0.67 oz/a		A	
10	Atrazine	4	1 qt/a		A	
10	Abundit	4	32 oz/a		B	
10	N-PAK AMS	100	1.5 qt/a		B	
11	Cinch ATZ	5.5	1 qt/a		A	100
11	Rimsulfuron	25	1.2 oz/a		B	
11	Isoxadifen-Ethyl	50	0.3 oz/a		B	
11	Mesotrione	50	2.5 oz/a		B	
11	Abundit	4	32 oz/a		C	
11	N-PAK AMS	100	1.5 qt/a		C	
12	Halex GT	4.38	3.6 pt/a		B	100
12	NIS	100	4.8 oz/a		B	
12	N-PAK AMS	100	1.5 qt/a		B	
13	Capreno	3.46	3 oz/a		B	100
13	Abundit	4	32 oz/a		B	
13	N-PAK AMS	100	1.5 qt/a		B	
14	UTC					0
LSD (P=.05)						1.9
Standard Deviation						1.1
CV						1.2
Bartlett's X2						1.642
P(Bartlett's X2)						0.44
Replicate F						1.625
Replicate Prob(F)						0.2163

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed
Pest Code	IPOHE
Pest Scientific Name	Ipomoea hederata>
Pest Name	Ivyleaf mornin>
Crop Code	
BBCH Scale	
Crop Scientific Name	
Crop Name	
Rating Date	8/1/11
Rating Type	CONTRO
Rating Unit	%
Number of Subsamples	1
Days After First/Last Applic.	62 25
Trt-Eval Interval	25 DA-C
Plant-Eval Interval	62 DP-1
Days After Emergence	56 DE-1
Number of Decimals	0
<hr/>	
Trt Treatment	Form Other Other Appl
No. Name	Conc Rate Rate Unit Code
Treatment F	1731.268
Treatment Prob(F)	0.0001

# Ohio State University Horticulture and Crop Science

## Weed Control With Realm Q Systems

Title No. 2:

Trial ID: 11PRPOC2      Protocol ID: 11PRPOC2  
Location: WESTERN BRANCH F-8      Study Director: Anthony F. Dobbels  
Project ID: USA-11-01      Investigator: Dr. Mark M. Loux  
Sponsor Contact: Marsha Martin, DuPont

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETFA, *Setaria faberi*, = US  
AMBTR, *Ambrosia trifida*, = US  
CHEAL, *Chenopodium album*, = US  
AMARE, *Amaranthus retroflexus*, = US  
ABUTH, *Abutilon theophrasti*, = US  
HIBTR, *Hibiscus trionum*, = US  
POLPY, *Persicaria pensylvanica*, = US  
SIDSP, *Sida spinosa*, = US  
IPOHE, *Ipomoea hederacea*, = US

Crop Code

ZEAMX, BCOR, *Zea mays*, = US

Rating Type

PHYGEN = phytotoxicity - general / injury  
CONTRO = control / burndown or knockdown

Rating Unit

% = percent

Plant-Eval Interval

20 DP-1 = 1 5/31/11  
28 DP-1 = 1 5/31/11  
35 DP-1 = 1 5/31/11  
48 DP-1 = 1 5/31/11  
62 DP-1 = 1 5/31/11



# Ohio State University Horticulture and Crop Science

## Weed Control With Realm Q Systems

Title No. 2:  
 Trial ID: 11PRPOC2      Protocol ID: 11PRPOC2  
 Location: WESTERN BRANCH F-8      Study Director: Anthony F. Dobbels  
 Project ID: USA-11-01      Investigator: Dr. Mark M. Loux  
                                  Sponsor Contact: Marsha Martin, DuPont

### General Trial Information

**Study Director:** Anthony F. Dobbels      **Title:** Research Specialist  
**Investigator:** Dr. Mark M. Loux      **Title:** Professor

### Trial Location

**City:** South Charleston      **Latitude of LL Corner °:** 39.860085 N  
**State/Prov.:** Ohio      **Longitude of LL Corner °:** -83.6702 W  
**Postal Code:** 45368  
**Country:** USA

### Crop Description

**Crop 1:** ZEAMX Zea mays      Corn  
**Variety:** Dekalb DKC 62-97  
**BBCH Scale:** BCOR      **Description:** RR  
**Planting Method:** SEEDED seeded      **Planting Date:** 5/31/11  
**Depth, Unit:** 2 IN      **Rate, Unit:** 32097 S/A  
**Row Spacing, Unit:** 30 IN  
**Seed Bed:** MEDIUM medium      **Soil Temperature, Unit:** 72 F  
**Soil Moisture:** SLIWET slightly wet      **Emergence Date:** 6/6/11

### Pest Description

- Pest 1 Type:** W      **Code:** SETFA Setaria faberi  
**Common Name:** Giant foxtail
- Pest 2 Type:** W      **Code:** AMBTR Ambrosia trifida  
**Common Name:** Giant ragweed
- Pest 3 Type:** W      **Code:** CHEAL Chenopodium album  
**Common Name:** Common lambsquarters
- Pest 4 Type:** W      **Code:** AMARE Amaranthus retroflexus  
**Common Name:** Redroot pigweed
- Pest 5 Type:** W      **Code:** ABUTH Abutilon theophrasti  
**Common Name:** Velvetleaf
- Pest 6 Type:** W      **Code:** POLPY Persicaria pensylvanica  
**Common Name:** Pennsylvania smartweed
- Pest 7 Type:** W      **Code:** HIBTR Hibiscus trionum  
**Common Name:** Venice mallow
- Pest 8 Type:** W      **Code:** SIDSP Sida spinosa  
**Common Name:** Prickly sida
- Pest 9 Type:** W      **Code:** ECHCG Echinochloa crus-galli  
**Common Name:** Common barnyardgrass
- Pest10 Type:** W      **Code:** SOLPT Solanum ptycanthum  
**Common Name:** Eastern black nightshade

### Site and Design

**Plot Width, Unit:** 6.67 FT      **Site Type:** FIELD field  
**Plot Length, Unit:** 30 FT      **Experimental Unit:** 1 PLOT plot  
**Plot Area, Unit:** 200.1 FT<sup>2</sup>      **Tillage Type:** CONTIL conventional-till  
**Replications:** 3      **Study Design:** RACOB Randomized Complete Block (RCB)  
**Untreated Arrangement:** INCLUDED single control randomized in each block

### Soil Description

**Description Name:** F-8 Middle  
**% OM:** 1.1      **Texture:** CL clay loam  
**pH:** 7      **Soil Name:** Celina  
**CEC:** 12.7      **Fert. Level:** G good  
**Soil Drainage:** G good