

# Ohio State University Horticulture and Crop Science

## 2010/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/

Title No. 2:  
 Trial ID: 11FALLCORN1      Protocol ID: 11FALLCORN1  
 Location: WESTERN BRANCH F-9 W      Study Director:  
 Project ID:      Investigator: Dr. Mark M. Loux  
                                  Sponsor Contact:

### 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 °:** 39.85886 N  
**State/Prov.:** Ohio      **Longitude of LL Corner °:** -83.67363 W  
**Postal Code:** 45368  
**Country:** USA

### Crop Description

**Crop 1:** ZEAMX Zea mays      Corn  
**Variety:** Dekalb DKC 61-21  
**BBCH Scale:** BCOR      **Description:** RR  
**Planting Method:** SEEDED seeded      **Planting Date:** 5/22/11  
**Depth, Unit:** 2 IN      **Rate, Unit:** 34237 S/A  
**Row Spacing, Unit:** 30 IN  
**Seed Bed:** MEDIUM medium      **Soil Temperature, Unit:** 71 F  
**Soil Moisture:** SLIWET slightly wet      **Emergence Date:** 6/1/11

### Pest Description

- Pest 1 Type:** W      **Code:** LAMPU *Lamium purpureum*  
**Common Name:** Purple deadnettel
- Pest 2 Type:** W      **Code:** STEME *Stellaria media*  
**Common Name:** Common chickweed
- Pest 3 Type:** W      **Code:** CAPBP *Capsella bursa-pastoris*  
**Common Name:** Shepherd's purse
- Pest 4 Type:** W      **Code:** ERICA *Conyza canadensis*  
**Common Name:** Canada horseweed
- Pest 5 Type:** W      **Code:** AMBEL *Ambrosia artemisiifolia*  
**Common Name:** Common ragweed
- Pest 6 Type:** W      **Code:** SETFA *Setaria faberi*  
**Common Name:** Giant foxtail
- Pest 7 Type:** W      **Code:** POLPY *Persicaria pensylvanica*  
**Common Name:** Pennsylvania smartweed
- Pest 8 Type:** W      **Code:** VERAG *Veronica agrestis*  
**Common Name:** Field speedwell
- Pest 9 Type:** W      **Code:** CHEAL *Chenopodium album*  
**Common Name:** Common lambsquarters
- Pest10 Type:** W      **Code:** AMBTR *Ambrosia trifida*  
**Common Name:** Giant ragweed
- Pest11 Type:** W      **Code:** AMARE *Amaranthus retroflexus*  
**Common Name:** Redroot pigweed
- Pest12 Type:** W      **Code:** ABUTH *Abutilon theophrasti*  
**Common Name:** Velvetleaf
- Pest13 Type:** W      **Code:** SIDSP *Sida spinosa*  
**Common Name:** Prickly sida
- Pest14 Type:** W      **Code:** ECHCG *Echinochloa crus-galli*  
**Common Name:** Common barnyardgrass

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### Site and Design

Plot Width, Unit: 6.67 FT  
Plot Length, Unit: 30 FT  
Plot Area, Unit: 200.1 FT<sup>2</sup>  
Replications: 3

Site Type: FIELD field  
Experimental Unit: 1 PLOT plot  
Tillage Type: NOTILL no-till  
Study Design: RACOB L Randomized Complete Block (RCB)  
Untreated Arrangement: INCLUDED single control randomized in each block

### Soil Description

Description Name: F-9 West  
% OM: 2  
pH: 6.1  
CEC: 11.5

Texture: SICL silty clay loam  
Soil Name: Kokomo  
Fert. Level: G good  
Soil Drainage: G good

### Application Description

	A	B	C
Application Date:	12/3/10	5/24/11	6/21/11
Time of Day:	11:00 A.M	10:00 A.M	11:45 A.M
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	FALL	PRE	POST
Application Placement:	BROSOL	BROFOL	BROFOL
Applied By:		Reeb	Dobbels
Air Temperature, Unit:	33 F	69 F	87 F
% Relative Humidity:	72	62.5	70
Wind Velocity, Unit:	3 MPH	2 MPH	5 MPH
Wind Direction:	W	E	WSW
Dew Presence (Y/N):	N no	N no	N no
Soil Temperature, Unit:	34 F	61 F	74 F
Soil Moisture:	MOIST	WET	SLIWET
% Cloud Cover:	85	100	40
Next Rain Occurred On:	12/4/10	5/25/11	6/21/11

### Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:			BBCH
Stage Majority, Percent:			16 100
Height, Unit:			20 IN
Height Minimum, Maximum:			20 21

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## Pest Stage At Each Application

	A	B	C
<b>Pest 1 Code, Type, Scale:</b>	LAMPU W	LAMPU W	LAMPU W
<b>Stage Majority, Percent:</b>	18 100		
<b>Diameter, Unit:</b>	4 IN		
<b>Height, Unit:</b>	2 IN		
<b>Height Minimum, Maximum:</b>	1 2		
<b>Pest 2 Code, Type, Scale:</b>	STEME W	STEME W	STEME W
<b>Stage Majority, Percent:</b>	19 100	69 100	
<b>Diameter, Unit:</b>	4 IN	14 IN	
<b>Height, Unit:</b>	1 IN	2 IN	
<b>Height Minimum, Maximum:</b>	1 2	1 3	
<b>Pest 3 Code, Type, Scale:</b>	CAPBP W	CAPBP W	CAPBP W
<b>Stage Majority, Percent:</b>		71 100	
<b>Diameter, Unit:</b>		6 IN	
<b>Height, Unit:</b>		9 IN	
<b>Height Minimum, Maximum:</b>		9 10	
<b>Pest 4 Code, Type, Scale:</b>	ERICA W	ERICA W	ERICA W
<b>Stage Majority, Percent:</b>		30 100	30 100
<b>Diameter, Unit:</b>		5 IN	6 IN
<b>Height, Unit:</b>		8 IN	10 IN
<b>Height Minimum, Maximum:</b>		6 9	8 10
<b>Density, Unit:</b>	24 M2	24 M2	24 M2
<b>Pest 5 Code, Type, Scale:</b>	AMBEL W	AMBEL W	AMBEL W
<b>Stage Majority, Percent:</b>		16 100	19 100
<b>Diameter, Unit:</b>		6 IN	
<b>Height, Unit:</b>		10 IN	8 IN
<b>Height Minimum, Maximum:</b>		8 10	4 8
<b>Density, Unit:</b>	20 M2	20 M2	20 M2
<b>Pest 6 Code, Type, Scale:</b>	SETFA W	SETFA W	SETFA W
<b>Stage Majority, Percent:</b>			13 90
<b>Stage Minimum, Percent:</b>			12 10
<b>Stage Maximum, Percent:</b>			13 90
<b>Height, Unit:</b>		7 IN	4 IN
<b>Height Minimum, Maximum:</b>		6 8	3 4
<b>Density, Unit:</b>	141.33 M2	141.33 M2	141.33 M2
<b>Pest 7 Code, Type, Scale:</b>	POLPY W	POLPY W	POLPY W
<b>Diameter, Unit:</b>		5 IN	
<b>Height, Unit:</b>		5 IN	
<b>Height Minimum, Maximum:</b>		5 6	
<b>Density, Unit:</b>	9.33 M2	9.33 M2	9.33 M2
<b>Pest 8 Code, Type, Scale:</b>	VERAG W	VERAG W	VERAG W
<b>Diameter, Unit:</b>		1 IN	
<b>Height, Unit:</b>		6 IN	
<b>Height Minimum, Maximum:</b>		5 6	
<b>Pest 9 Code, Type, Scale:</b>	CHEAL W	CHEAL W	CHEAL W
<b>Stage Majority, Percent:</b>		12 100	
<b>Diameter, Unit:</b>		2 IN	
<b>Height, Unit:</b>		4 IN	
<b>Height Minimum, Maximum:</b>		4 5	
<b>Density, Unit:</b>	1.33 M2	1.33 M2	1.33 M2
<b>Pest10 Code, Type, Scale:</b>	AMBTR W	AMBTR W	AMBTR W
<b>Stage Majority, Percent:</b>			18 100
<b>Height, Unit:</b>			8 IN
<b>Height Minimum, Maximum:</b>			4 10
<b>Density, Unit:</b>	8 M2	8 M2	8 M2
<b>Pest11 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>			2 3
<b>Pest12 Code, Type, Scale:</b>	ABUTH W	ABUTH W	ABUTH W
<b>Stage Majority, Percent:</b>			14 100
<b>Height, Unit:</b>			3 IN
<b>Height Minimum, Maximum:</b>			2 3
<b>Density, Unit:</b>	1.33 M2	1.33 M2	1.33 M2
<b>Pest13 Code, Type, Scale:</b>	SIDSP W	SIDSP W	SIDSP W
<b>Stage Majority, Percent:</b>			14 100
<b>Height, Unit:</b>			3 IN
<b>Height Minimum, Maximum:</b>			2 3
<b>Pest14 Code, Type, Scale:</b>	ECHCG W	ECHCG W	ECHCG W
<b>Density, Unit:</b>	17.33 M2	17.33 M2	17.33 M2

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## Application Equipment

	A	B	C
<b>Appl. Equipment:</b>	6 foot boom	6 foot boom	10 Foot Boom
<b>Equipment Type:</b>	SPRBAC	SPRBAC	SPRBAC
<b>Operating Pressure, Unit:</b>	53 PSI	46 PSI	46 PSI
<b>Nozzle Type:</b>	TEEJET DG	TEEJET DG	TEEJET DG
<b>Nozzle Size:</b>	8002	80015	80015
<b>Nozzle Spacing, Unit:</b>	18 IN	18 IN	18 IN
<b>Boom Length, Unit:</b>	6 FT	6 FT	10 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>	20 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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Study Director:  
Investigator: Dr. Mark M. Loux  
Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	ERICA	CARPE	VERAR
Pest Scientific Name	Stellaria media Lamium purpure>		Conyza canadens>	Cardamine pens>	Veronica arven>
Pest Name	Common chickwe>		Purple deadnet>	Canada horsewe>	Pennsylvania b>
Crop Code					Corn speedwell
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	4/13/11	4/13/11	4/13/11	4/13/11	4/13/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	131 131	131 131	131 131	131 131	131 131
Trt-Eval Interval	131 DA-A	131 DA-A	131 DA-A	131 DA-A	131 DA-A
Plant-Eval Interval	-39 DP-1	-39 DP-1	-39 DP-1	-39 DP-1	-39 DP-1
Days After Emergence	-49 DE-1	-49 DE-1	-49 DE-1	-49 DE-1	-49 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Appl Unit	Code	1	2	3	4	5
1	UNTREATED					0	0	0	0	0
2	AUTHORITY MTZ	45	14 oz/a	A		87	65	93	100	92
	RAGE D-TECH	4.06	12 oz/a	A						
	COC	100	1 % v/v	A						
	AMMONIUM SULFATE	100	2.5 % v/v	A						
	ROUNDUP POWERMAX	5.5	32 oz/a	B						
	F9310-6	2	9 oz/a	B						
	AATREX	4	1.5 qt/a	B						
	AMMONIUM SULFATE	100	2.5 % v/v	B						
	CADET	109	0.5 oz/a	C						
	AATREX	4	2 pt/a	C						
	ROUNDUP POWERMAX	5.5	32 oz/a	C						
	COC	100	1 % v/v	C						
3	AUTHORITY MTZ	45	8 oz/a	A		80	53	77	100	78
	RAGE D-TECH	4.06	12 oz/a	A						
	COC	100	1 % v/v	A						
	AMMONIUM SULFATE	100	2.5 % v/v	A						
	ROUNDUP POWERMAX	5.5	32 oz/a	B						
	RAGE D-TECH	4.06	12 oz/a	B						
	DUAL II MAGNUM	7.64	1 pt/a	B						
	AATREX	4	1 pt/a	B						
	CADET	109	0.5 oz/a	C						
	AATREX	4	2 pt/a	C						
	ROUNDUP POWERMAX	5.5	32 oz/a	C						
	COC	100	1 % v/v	C						
4	AUTHORITY MTZ	45	8 oz/a	A		98	72	100	100	70
	RAGE D-TECH	4.06	12 oz/a	A						
	BASIS	75	0.5 oz/a	A						
	COC	100	1 % v/v	A						
	AMMONIUM SULFATE	100	2.5 % v/v	A						
	ROUNDUP POWERMAX	5.5	32 oz/a	B						
	RAGE D-TECH	4.06	12 oz/a	B						
	DUAL II MAGNUM	7.64	1 pt/a	B						
	AATREX	4	1 pt/a	B						
	CADET	109	0.5 oz/a	C						
	AATREX	4	2 pt/a	C						
	ROUNDUP POWERMAX	5.5	32 oz/a	C						
	COC	100	1 % v/v	C						
5	AUTHORITY MTZ	45	8 oz/a	A		99	78	95	100	72
	RAGE D-TECH	4.06	12 oz/a	A						
	RESOLVE SG	25	0.5 oz/a	A						
	Rimsulfuron	25	0.5 oz/a	A						
	Isoxadifen-Ethyl	50	0.125 oz/a	A						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	ERICA	CARPE	VERAR
Pest Scientific Name	Stellaria media Lamium purpure> Conyza canadens> Cardamine pens> Veronica arven>				
Pest Name	Common chickwe> Purple deadnet> Canada horsewe> Pennsylvania b> Corn speedwell				
Crop Code					
BCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	4/13/11	4/13/11	4/13/11	4/13/11	4/13/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	131 131	131 131	131 131	131 131	131 131
Trt-Eval Interval	131 DA-A	131 DA-A	131 DA-A	131 DA-A	131 DA-A
Plant-Eval Interval	-39 DP-1	-39 DP-1	-39 DP-1	-39 DP-1	-39 DP-1
Days After Emergence	-49 DE-1	-49 DE-1	-49 DE-1	-49 DE-1	-49 DE-1
Number of Decimals	0	0	0	0	0

Trt Treatment	Form	Rate	Appl					
No. Name	Conc Rate	Unit	Code	1	2	3	4	5
5 COC	100	1 % v/v	A					
5 AMMONIUM SULFATE	100	2.5 % v/v	A					
5 ROUNDUP POWERMAX	5.5	32 oz/a	B					
5 RAGE D-TECH	4.06	12 oz/a	B					
5 DUAL II MAGNUM	7.64	1 pt/a	B					
5 AATREX	4	1 pt/a	B					
5 CADET	109	0.5 oz/a	C					
5 AATREX	4	2 pt/a	C					
5 ROUNDUP POWERMAX	5.5	32 oz/a	C					
5 COC	100	1 % v/v	C					
6 AUTHORITY MTZ	45	8 oz/a	A	100	74	82	100	92
6 RAGE D-TECH	4.06	12 oz/a	A					
6 EXPRESS SG	50	0.1 oz/a	A					
6 COC	100	1 % v/v	A					
6 AMMONIUM SULFATE	100	2.5 % v/v	A					
6 ROUNDUP POWERMAX	5.5	32 oz/a	B					
6 RAGE D-TECH	4.06	12 oz/a	B					
6 DUAL II MAGNUM	7.64	1 pt/a	B					
6 AATREX	4	1 pt/a	B					
6 CADET	109	0.5 oz/a	C					
6 AATREX	4	2 pt/a	C					
6 ROUNDUP POWERMAX	5.5	32 oz/a	C					
6 COC	100	1 % v/v	C					
7 AUTUMN	10	0.3 oz/a	A	100	48	100	100	47
7 RAGE D-TECH	4.06	12 oz/a	A					
7 COC	100	1 % v/v	A					
7 ROUNDUP POWERMAX	5.5	32 oz/a	B					
7 RAGE D-TECH	4.06	12 oz/a	B					
7 DUAL II MAGNUM	7.64	1 pt/a	B					
7 AATREX	4	1 pt/a	B					
7 CADET	109	0.5 oz/a	C					
7 AATREX	4	2 pt/a	C					
7 ROUNDUP POWERMAX	5.5	32 oz/a	C					
7 COC	100	1 % v/v	C					
8 SIMAZINE	4	2 qt/a	A	100	63	100	100	92
8 RAGE D-TECH	4.06	12 oz/a	A					
8 COC	100	1 % v/v	A					
8 AUTHORITY MTZ	45	5.5 oz/a	B					
8 DUAL MAGNUM	7.62	16 oz/a	B					
8 ROUNDUP POWERMAX	5.5	32 oz/a	B					
8 CADET	109	0.5 oz/a	C					
8 AATREX	4	2 pt/a	C					
8 ROUNDUP POWERMAX	5.5	32 oz/a	C					
8 COC	100	1 % v/v	C					
LSD (P=.05)				21.0	21.5	20.0	0.0	26.5
Standard Deviation				11.9	12.2	11.3	0.0	14.1
CV				14.32	21.47	14.04	0.0	20.77
Bartlett's X2				5.412	2.169	2.048	0.0	1.476
P(Bartlett's X2)				0.067	0.904	0.562	.	0.478
Replicate F				0.175	0.894	1.063	0.000	8.160
Replicate Prob(F)				0.8413	0.4327	0.3735	1.0000	0.0117

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Pest Code	STEME	LAMPU	ERICA	CAPBP	VERAR
Pest Scientific Name	Stellaria media Lamium purpure>		Conyza canadens>	Capsella bursa>	Veronica arven>
Pest Name	Common chickwe>		Purple deadnet>	Canada horsewe>	Shepherd's pur>
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	4/29/11	4/29/11	4/29/11	4/29/11	4/29/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	147 147	147 147	147 147	147 147	147 147
Trt-Eval Interval	147 DA-A	147 DA-A	147 DA-A	147 DA-A	147 DA-A
Plant-Eval Interval	-23 DP-1	-23 DP-1	-23 DP-1	-23 DP-1	-23 DP-1
Days After Emergence	-33 DE-1	-33 DE-1	-33 DE-1	-33 DE-1	-33 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate Rate	Appl Unit	Code	6	7	8	9	10
1	UNTREATED					0	0	0	0	0
2	AUTHORITY MTZ	45	14 oz/a	A		87	70	80	100	87
	RAGE D-TECH	4.06	12 oz/a	A						
	COC	100	1 % v/v	A						
	AMMONIUM SULFATE	100	2.5 % v/v	A						
	ROUNDUP POWERMAX	5.5	32 oz/a	B						
	F9310-6	2	9 oz/a	B						
	AATREX	4	1.5 qt/a	B						
	AMMONIUM SULFATE	100	2.5 % v/v	B						
	CADET	109	0.5 oz/a	C						
	AATREX	4	2 pt/a	C						
	ROUNDUP POWERMAX	5.5	32 oz/a	C						
	COC	100	1 % v/v	C						
3	AUTHORITY MTZ	45	8 oz/a	A		75	70	72	100	83
	RAGE D-TECH	4.06	12 oz/a	A						
	COC	100	1 % v/v	A						
	AMMONIUM SULFATE	100	2.5 % v/v	A						
	ROUNDUP POWERMAX	5.5	32 oz/a	B						
	RAGE D-TECH	4.06	12 oz/a	B						
	DUAL II MAGNUM	7.64	1 pt/a	B						
	AATREX	4	1 pt/a	B						
	CADET	109	0.5 oz/a	C						
	AATREX	4	2 pt/a	C						
	ROUNDUP POWERMAX	5.5	32 oz/a	C						
	COC	100	1 % v/v	C						
4	AUTHORITY MTZ	45	8 oz/a	A		87	85	100	100	78
	RAGE D-TECH	4.06	12 oz/a	A						
	BASIS	75	0.5 oz/a	A						
	COC	100	1 % v/v	A						
	AMMONIUM SULFATE	100	2.5 % v/v	A						
	ROUNDUP POWERMAX	5.5	32 oz/a	B						
	RAGE D-TECH	4.06	12 oz/a	B						
	DUAL II MAGNUM	7.64	1 pt/a	B						
	AATREX	4	1 pt/a	B						
	CADET	109	0.5 oz/a	C						
	AATREX	4	2 pt/a	C						
	ROUNDUP POWERMAX	5.5	32 oz/a	C						
	COC	100	1 % v/v	C						
5	AUTHORITY MTZ	45	8 oz/a	A		95	88	97	99	92
	RAGE D-TECH	4.06	12 oz/a	A						
	RESOLVE SG	25	0.5 oz/a	A						
	Rimsulfuron	25	0.5 oz/a	A						
	Isoxadifen-Ethyl	50	0.125 oz/a	A						

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Pest Name	Common chickwe> Purple deadnet> Canada horsewe> Shepherd's pur> Corn speedwell				
Crop Code					
BBCB Scale					
Crop Scientific Name					
Crop Name					
Rating Date	4/29/11	4/29/11	4/29/11	4/29/11	4/29/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	147 147	147 147	147 147	147 147	147 147
Trt-Eval Interval	147 DA-A	147 DA-A	147 DA-A	147 DA-A	147 DA-A
Plant-Eval Interval	-23 DP-1	-23 DP-1	-23 DP-1	-23 DP-1	-23 DP-1
Days After Emergence	-33 DE-1	-33 DE-1	-33 DE-1	-33 DE-1	-33 DE-1
Number of Decimals	0	0	0	0	0

Trt Treatment No. Name	Form Conc Rate	Rate Unit	Appl Code	6	7	8	9	10
5 COC	100	1 % v/v	A					
5 AMMONIUM SULFATE	100	2.5 % v/v	A					
5 ROUNDUP POWERMAX	5.5	32 oz/a	B					
5 RAGE D-TECH	4.06	12 oz/a	B					
5 DUAL II MAGNUM	7.64	1 pt/a	B					
5 AATREX	4	1 pt/a	B					
5 CADET	109	0.5 oz/a	C					
5 AATREX	4	2 pt/a	C					
5 ROUNDUP POWERMAX	5.5	32 oz/a	C					
5 COC	100	1 % v/v	C					
6 AUTHORITY MTZ	45	8 oz/a	A	100	80	77	97	100
6 RAGE D-TECH	4.06	12 oz/a	A					
6 EXPRESS SG	50	0.1 oz/a	A					
6 COC	100	1 % v/v	A					
6 AMMONIUM SULFATE	100	2.5 % v/v	A					
6 ROUNDUP POWERMAX	5.5	32 oz/a	B					
6 RAGE D-TECH	4.06	12 oz/a	B					
6 DUAL II MAGNUM	7.64	1 pt/a	B					
6 AATREX	4	1 pt/a	B					
6 CADET	109	0.5 oz/a	C					
6 AATREX	4	2 pt/a	C					
6 ROUNDUP POWERMAX	5.5	32 oz/a	C					
6 COC	100	1 % v/v	C					
7 AUTUMN	10	0.3 oz/a	A	97	43	90	94	60
7 RAGE D-TECH	4.06	12 oz/a	A					
7 COC	100	1 % v/v	A					
7 ROUNDUP POWERMAX	5.5	32 oz/a	B					
7 RAGE D-TECH	4.06	12 oz/a	B					
7 DUAL II MAGNUM	7.64	1 pt/a	B					
7 AATREX	4	1 pt/a	B					
7 CADET	109	0.5 oz/a	C					
7 AATREX	4	2 pt/a	C					
7 ROUNDUP POWERMAX	5.5	32 oz/a	C					
7 COC	100	1 % v/v	C					
8 SIMAZINE	4	2 qt/a	A	100	80	100	100	100
8 RAGE D-TECH	4.06	12 oz/a	A					
8 COC	100	1 % v/v	A					
8 AUTHORITY MTZ	45	5.5 oz/a	B					
8 DUAL MAGNUM	7.62	16 oz/a	B					
8 ROUNDUP POWERMAX	5.5	32 oz/a	B					
8 CADET	109	0.5 oz/a	C					
8 AATREX	4	2 pt/a	C					
8 ROUNDUP POWERMAX	5.5	32 oz/a	C					
8 COC	100	1 % v/v	C					
LSD (P=.05)				24.1	26.9	25.9	5.1	27.6
Standard Deviation				13.7	15.3	14.7	2.9	15.7
CV				17.1	23.67	19.07	3.33	20.88
Bartlett's X2				4.632	2.432	2.342	0.054	1.77
P(Bartlett's X2)				0.327	0.787	0.673	0.816	0.778
Replicate F				0.723	0.216	0.358	1.275	0.949
Replicate Prob(F)				0.5040	0.8085	0.7055	0.3147	0.4122



# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	ERICA	CAPBP	VERAR
Pest Scientific Name	Stellaria media	Lamium purpure>	Conyza canad>	Capsella bursa>	Veronica arven>
Pest Name	Common chickwe>	Purple deadnet>	Canada horsewe>	Shepherd's pur>	Corn speedwell
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	4/29/11	4/29/11	4/29/11	4/29/11	4/29/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	147 147	147 147	147 147	147 147	147 147
Trt-Eval Interval	147 DA-A	147 DA-A	147 DA-A	147 DA-A	147 DA-A
Plant-Eval Interval	-23 DP-1	-23 DP-1	-23 DP-1	-23 DP-1	-23 DP-1
Days After Emergence	-33 DE-1	-33 DE-1	-33 DE-1	-33 DE-1	-33 DE-1
Number of Decimals	0	0	0	0	0
Trt Treatment	Form	Rate	Appl		
No. Name	Conc Rate	Unit	Code	6	7
Treatment F				17.893	11.229
Treatment Prob(F)				0.0001	0.0001
				15.108	442.655
				0.0001	0.0001
					13.272
					0.0001

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	AMBEL	STEME	LAMPU	ERICA
Pest Scientific Name	Ambrosia trifid	Ambrosia artemisiifolia	Stellaria media	Lamium purpureum	Conyza canadensis
Pest Name	Giant ragweed	Common ragweed	Common chickweed	Purple deadnettle	Canada horseweed
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	4/29/11	4/29/11	5/16/11	5/16/11	5/16/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	147 147	147 147	164 164	164 164	164 164
Trt-Eval Interval	147 DA-A	147 DA-A	164 DA-A	164 DA-A	164 DA-A
Plant-Eval Interval	-23 DP-1	-23 DP-1	-6 DP-1	-6 DP-1	-6 DP-1
Days After Emergence	-33 DE-1	-33 DE-1	-16 DE-1	-16 DE-1	-16 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate Rate	Appl Unit	Code	11	12	13	14	15
1	UNTREATED					0	0	0	0	0
2	AUTHORITY MTZ	45	14 oz/a	A		70	86	87	67	83
	RAGE D-TECH	4.06	12 oz/a	A						
	COC	100	1 % v/v	A						
	AMMONIUM SULFATE	100	2.5 % v/v	A						
	ROUNDUP POWERMAX	5.5	32 oz/a	B						
	F9310-6	2	9 oz/a	B						
	AATREX	4	1.5 qt/a	B						
	AMMONIUM SULFATE	100	2.5 % v/v	B						
	CADET	109	0.5 oz/a	C						
	AATREX	4	2 pt/a	C						
	ROUNDUP POWERMAX	5.5	32 oz/a	C						
	COC	100	1 % v/v	C						
3	AUTHORITY MTZ	45	8 oz/a	A		60	67	77	60	68
	RAGE D-TECH	4.06	12 oz/a	A						
	COC	100	1 % v/v	A						
	AMMONIUM SULFATE	100	2.5 % v/v	A						
	ROUNDUP POWERMAX	5.5	32 oz/a	B						
	RAGE D-TECH	4.06	12 oz/a	B						
	DUAL II MAGNUM	7.64	1 pt/a	B						
	AATREX	4	1 pt/a	B						
	CADET	109	0.5 oz/a	C						
	AATREX	4	2 pt/a	C						
	ROUNDUP POWERMAX	5.5	32 oz/a	C						
	COC	100	1 % v/v	C						
4	AUTHORITY MTZ	45	8 oz/a	A		72	83	88	83	100
	RAGE D-TECH	4.06	12 oz/a	A						
	BASIS	75	0.5 oz/a	A						
	COC	100	1 % v/v	A						
	AMMONIUM SULFATE	100	2.5 % v/v	A						
	ROUNDUP POWERMAX	5.5	32 oz/a	B						
	RAGE D-TECH	4.06	12 oz/a	B						
	DUAL II MAGNUM	7.64	1 pt/a	B						
	AATREX	4	1 pt/a	B						
	CADET	109	0.5 oz/a	C						
	AATREX	4	2 pt/a	C						
	ROUNDUP POWERMAX	5.5	32 oz/a	C						
	COC	100	1 % v/v	C						
5	AUTHORITY MTZ	45	8 oz/a	A		77	91	99	87	94
	RAGE D-TECH	4.06	12 oz/a	A						
	RESOLVE SG	25	0.5 oz/a	A						
	Rimsulfuron	25	0.5 oz/a	A						
	Isxadifen-Ethyl	50	0.125 oz/a	A						

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	AMBEL	STEME	LAMPU	ERICA
Pest Scientific Name	Ambrosia trifid	Ambrosia artem	Stellaria media	Lamium purpure	Conyza canadensis
Pest Name	Giant ragweed	Common ragweed	Common chickweed	Purple deadnettle	Canada horseweed
Crop Code					
BCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	4/29/11	4/29/11	5/16/11	5/16/11	5/16/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	147 147	147 147	164 164	164 164	164 164
Trt-Eval Interval	147 DA-A	147 DA-A	164 DA-A	164 DA-A	164 DA-A
Plant-Eval Interval	-23 DP-1	-23 DP-1	-6 DP-1	-6 DP-1	-6 DP-1
Days After Emergence	-33 DE-1	-33 DE-1	-16 DE-1	-16 DE-1	-16 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Appl Unit	Code	11	12	13	14	15
5	COC	100	1	% v/v	A					
5	AMMONIUM SULFATE	100	2.5	% v/v	A					
5	ROUNDUP POWERMAX	5.5	32	oz/a	B					
5	RAGE D-TECH	4.06	12	oz/a	B					
5	DUAL II MAGNUM	7.64	1	pt/a	B					
5	AATREX	4	1	pt/a	B					
5	CADET	109	0.5	oz/a	C					
5	AATREX	4	2	pt/a	C					
5	ROUNDUP POWERMAX	5.5	32	oz/a	C					
5	COC	100	1	% v/v	C					
6	AUTHORITY MTZ	45	8	oz/a	A	53	57	100	75	82
6	RAGE D-TECH	4.06	12	oz/a	A					
6	EXPRESS SG	50	0.1	oz/a	A					
6	COC	100	1	% v/v	A					
6	AMMONIUM SULFATE	100	2.5	% v/v	A					
6	ROUNDUP POWERMAX	5.5	32	oz/a	B					
6	RAGE D-TECH	4.06	12	oz/a	B					
6	DUAL II MAGNUM	7.64	1	pt/a	B					
6	AATREX	4	1	pt/a	B					
6	CADET	109	0.5	oz/a	C					
6	AATREX	4	2	pt/a	C					
6	ROUNDUP POWERMAX	5.5	32	oz/a	C					
6	COC	100	1	% v/v	C					
7	AUTUMN	10	0.3	oz/a	A	70	83	97	47	67
7	RAGE D-TECH	4.06	12	oz/a	A					
7	COC	100	1	% v/v	A					
7	ROUNDUP POWERMAX	5.5	32	oz/a	B					
7	RAGE D-TECH	4.06	12	oz/a	B					
7	DUAL II MAGNUM	7.64	1	pt/a	B					
7	AATREX	4	1	pt/a	B					
7	CADET	109	0.5	oz/a	C					
7	AATREX	4	2	pt/a	C					
7	ROUNDUP POWERMAX	5.5	32	oz/a	C					
7	COC	100	1	% v/v	C					
8	SIMAZINE	4	2	qt/a	A	97	100	100	85	100
8	RAGE D-TECH	4.06	12	oz/a	A					
8	COC	100	1	% v/v	A					
8	AUTHORITY MTZ	45	5.5	oz/a	B					
8	DUAL MAGNUM	7.62	16	oz/a	B					
8	ROUNDUP POWERMAX	5.5	32	oz/a	B					
8	CADET	109	0.5	oz/a	C					
8	AATREX	4	2	pt/a	C					
8	ROUNDUP POWERMAX	5.5	32	oz/a	C					
8	COC	100	1	% v/v	C					
LSD (P=.05)						33.0	33.3	21.7	24.3	19.7
Standard Deviation						18.7	18.7	12.3	13.8	11.2
CV						29.98	26.39	15.22	21.94	15.03
Bartlett's X2						6.813	1.247	7.683	1.334	1.323
P(Bartlett's X2)						0.338	0.94	0.053	0.931	0.857
Replicate F						6.454	0.191	0.164	0.235	1.001
Replicate Prob(F)						0.0113	0.8287	0.8504	0.7938	0.3942

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	AMBEL	STEME	LAMPU	ERICA
Pest Scientific Name	Ambrosia trifi>	Ambrosia artem>	Stellaria media	Lamium purpure>	Conyza canaden>
Pest Name	Giant ragweed	Common ragweed	Common chickwe>	Purple deadnet>	Canada horsewe>
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	4/29/11	4/29/11	5/16/11	5/16/11	5/16/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	147 147	147 147	164 164	164 164	164 164
Trt-Eval Interval	147 DA-A	147 DA-A	164 DA-A	164 DA-A	164 DA-A
Plant-Eval Interval	-23 DP-1	-23 DP-1	-6 DP-1	-6 DP-1	-6 DP-1
Days After Emergence	-33 DE-1	-33 DE-1	-16 DE-1	-16 DE-1	-16 DE-1
Number of Decimals	0	0	0	0	0
Trt Treatment	Form	Rate	Appl		
No. Name	Conc Rate	Unit	Code	11	12
Treatment F				6.838	8.617
Treatment Prob(F)				0.0015	0.0007
				22.482	13.180
				0.0001	0.0001
					25.689
					0.0001

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CAPBP	VERAR	AMBTR	AMBEL	POLPY
Pest Scientific Name	Capsella bursa>	Veronica arven>	Ambrosia trifi>	Ambrosia artem>	Persicaria pen>
Pest Name	Shepherd's pur>	Corn speedwell	Giant ragweed	Common ragweed	Pennsylvania s>
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	5/16/11	5/16/11	5/16/11	5/16/11	5/16/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	164 164	164 164	164 164	164 164	164 164
Trt-Eval Interval	164 DA-A	164 DA-A	164 DA-A	164 DA-A	164 DA-A
Plant-Eval Interval	-6 DP-1	-6 DP-1	-6 DP-1	-6 DP-1	-6 DP-1
Days After Emergence	-16 DE-1	-16 DE-1	-16 DE-1	-16 DE-1	-16 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate Rate	Appl Unit Code	16	17	18	19	20
1	UNTREATED				0	0	0	0	3
2	AUTHORITY MTZ	45	14 oz/a	A	100	80	50	59	87
	RAGE D-TECH	4.06	12 oz/a	A					
	COC	100	1 % v/v	A					
	AMMONIUM SULFATE	100	2.5 % v/v	A					
	ROUNDUP POWERMAX	5.5	32 oz/a	B					
	F9310-6	2	9 oz/a	B					
	AATREX	4	1.5 qt/a	B					
	AMMONIUM SULFATE	100	2.5 % v/v	B					
	CADET	109	0.5 oz/a	C					
	AATREX	4	2 pt/a	C					
	ROUNDUP POWERMAX	5.5	32 oz/a	C					
	COC	100	1 % v/v	C					
3	AUTHORITY MTZ	45	8 oz/a	A	92	100	53	67	45
	RAGE D-TECH	4.06	12 oz/a	A					
	COC	100	1 % v/v	A					
	AMMONIUM SULFATE	100	2.5 % v/v	A					
	ROUNDUP POWERMAX	5.5	32 oz/a	B					
	RAGE D-TECH	4.06	12 oz/a	B					
	DUAL II MAGNUM	7.64	1 pt/a	B					
	AATREX	4	1 pt/a	B					
	CADET	109	0.5 oz/a	C					
	AATREX	4	2 pt/a	C					
	ROUNDUP POWERMAX	5.5	32 oz/a	C					
	COC	100	1 % v/v	C					
4	AUTHORITY MTZ	45	8 oz/a	A	100	78	62	67	60
	RAGE D-TECH	4.06	12 oz/a	A					
	BASIS	75	0.5 oz/a	A					
	COC	100	1 % v/v	A					
	AMMONIUM SULFATE	100	2.5 % v/v	A					
	ROUNDUP POWERMAX	5.5	32 oz/a	B					
	RAGE D-TECH	4.06	12 oz/a	B					
	DUAL II MAGNUM	7.64	1 pt/a	B					
	AATREX	4	1 pt/a	B					
	CADET	109	0.5 oz/a	C					
	AATREX	4	2 pt/a	C					
	ROUNDUP POWERMAX	5.5	32 oz/a	C					
	COC	100	1 % v/v	C					
5	AUTHORITY MTZ	45	8 oz/a	A	98	97	71	69	96
	RAGE D-TECH	4.06	12 oz/a	A					
	RESOLVE SG	25	0.5 oz/a	A					
	Rimsulfuron	25	0.5 oz/a	A					
	Isxadifen-Ethyl	50	0.125 oz/a	A					

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CAPBP	VERAR	AMBTR	AMBEL	POLPY
Pest Scientific Name	Capsella bursa>	Veronica arven>	Ambrosia trifi>	Ambrosia artem>	Persicaria pen>
Pest Name	Shepherd's pur>	Corn speedwell	Giant ragweed	Common ragweed	Pennsylvania s>
Crop Code					
BCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	5/16/11	5/16/11	5/16/11	5/16/11	5/16/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	164 164	164 164	164 164	164 164	164 164
Trt-Eval Interval	164 DA-A	164 DA-A	164 DA-A	164 DA-A	164 DA-A
Plant-Eval Interval	-6 DP-1	-6 DP-1	-6 DP-1	-6 DP-1	-6 DP-1
Days After Emergence	-16 DE-1	-16 DE-1	-16 DE-1	-16 DE-1	-16 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Appl Unit	Code	16	17	18	19	20
5	COC	100	1	% v/v	A					
5	AMMONIUM SULFATE	100	2.5	% v/v	A					
5	ROUNDUP POWERMAX	5.5	32	oz/a	B					
5	RAGE D-TECH	4.06	12	oz/a	B					
5	DUAL II MAGNUM	7.64	1	pt/a	B					
5	AATREX	4	1	pt/a	B					
5	CADET	109	0.5	oz/a	C					
5	AATREX	4	2	pt/a	C					
5	ROUNDUP POWERMAX	5.5	32	oz/a	C					
5	COC	100	1	% v/v	C					
6	AUTHORITY MTZ	45	8	oz/a	A	88	100	57	33	35
6	RAGE D-TECH	4.06	12	oz/a	A					
6	EXPRESS SG	50	0.1	oz/a	A					
6	COC	100	1	% v/v	A					
6	AMMONIUM SULFATE	100	2.5	% v/v	A					
6	ROUNDUP POWERMAX	5.5	32	oz/a	B					
6	RAGE D-TECH	4.06	12	oz/a	B					
6	DUAL II MAGNUM	7.64	1	pt/a	B					
6	AATREX	4	1	pt/a	B					
6	CADET	109	0.5	oz/a	C					
6	AATREX	4	2	pt/a	C					
6	ROUNDUP POWERMAX	5.5	32	oz/a	C					
6	COC	100	1	% v/v	C					
7	AUTUMN	10	0.3	oz/a	A	80	57	57	34	20
7	RAGE D-TECH	4.06	12	oz/a	A					
7	COC	100	1	% v/v	A					
7	ROUNDUP POWERMAX	5.5	32	oz/a	B					
7	RAGE D-TECH	4.06	12	oz/a	B					
7	DUAL II MAGNUM	7.64	1	pt/a	B					
7	AATREX	4	1	pt/a	B					
7	CADET	109	0.5	oz/a	C					
7	AATREX	4	2	pt/a	C					
7	ROUNDUP POWERMAX	5.5	32	oz/a	C					
7	COC	100	1	% v/v	C					
8	SIMAZINE	4	2	qt/a	A	95	100	83	95	87
8	RAGE D-TECH	4.06	12	oz/a	A					
8	COC	100	1	% v/v	A					
8	AUTHORITY MTZ	45	5.5	oz/a	B					
8	DUAL MAGNUM	7.62	16	oz/a	B					
8	ROUNDUP POWERMAX	5.5	32	oz/a	B					
8	CADET	109	0.5	oz/a	C					
8	AATREX	4	2	pt/a	C					
8	ROUNDUP POWERMAX	5.5	32	oz/a	C					
8	COC	100	1	% v/v	C					
LSD (P=.05)			15.3				32.0	25.3	15.0	56.2
Standard Deviation			8.6				18.1	14.3	8.3	28.1
CV			10.54				23.71	26.51	15.77	52.03
Bartlett's X2			4.692				0.35	3.871	1.395	1.297
P(Bartlett's X2)			0.32				0.84	0.694	0.925	0.862
Replicate F			2.754				0.871	3.701	1.827	0.793
Replicate Prob(F)			0.1037				0.4416	0.0534	0.2065	0.4948

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CAPBP	VERAR	AMBTR	AMBEL	POLPY
Pest Scientific Name	Capsella bursa>	Veronica arven>	Ambrosia trifi>	Ambrosia artem>	Persicaria pen>
Pest Name	Shepherd's pur>	Corn speedwell	Giant ragweed	Common ragweed	Pennsylvania s>
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	5/16/11	5/16/11	5/16/11	5/16/11	5/16/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	164 164	164 164	164 164	164 164	164 164
Trt-Eval Interval	164 DA-A	164 DA-A	164 DA-A	164 DA-A	164 DA-A
Plant-Eval Interval	-6 DP-1	-6 DP-1	-6 DP-1	-6 DP-1	-6 DP-1
Days After Emergence	-16 DE-1	-16 DE-1	-16 DE-1	-16 DE-1	-16 DE-1
Number of Decimals	0	0	0	0	0
Trt Treatment	Form	Rate	Appl		
No. Name	Conc Rate	Unit	Code	16	17
Treatment F				45.842	10.861
Treatment Prob(F)				0.0001	0.0002
				8.652	0.0005
				36.965	0.0001
				4.437	0.0444

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	STEME	LAMPU	ERICA	CAPBP
Pest Scientific Name	Chenopodium al>	Stellaria media	Lamium purpure>	Conyza canadens>	Capsella bursa>
Pest Name	Common lambsqu>	Common chickwe>	Purple deadnet>	Canada horsewe>	Shepherd's pur>
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	5/16/11	5/23/11	5/23/11	5/23/11	5/23/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	164 164	171 171	171 171	171 171	171 171
Trt-Eval Interval	164 DA-A	171 DA-A	171 DA-A	171 DA-A	171 DA-A
Plant-Eval Interval	-6 DP-1	1 DP-1	1 DP-1	1 DP-1	1 DP-1
Days After Emergence	-16 DE-1	-9 DE-1	-9 DE-1	-9 DE-1	-9 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate Rate	Appl Unit Code	21	22	23	24	25
1	UNTREATED				0	0	0	0	0
2	AUTHORITY MTZ	45	14 oz/a	A	78	83	60	70	100
	RAGE D-TECH	4.06	12 oz/a	A					
	COC	100	1 % v/v	A					
	AMMONIUM SULFATE	100	2.5 % v/v	A					
	ROUNDUP POWERMAX	5.5	32 oz/a	B					
	F9310-6	2	9 oz/a	B					
	AATREX	4	1.5 qt/a	B					
	AMMONIUM SULFATE	100	2.5 % v/v	B					
	CADET	109	0.5 oz/a	C					
	AATREX	4	2 pt/a	C					
	ROUNDUP POWERMAX	5.5	32 oz/a	C					
	COC	100	1 % v/v	C					
3	AUTHORITY MTZ	45	8 oz/a	A	80	67	40	27	50
	RAGE D-TECH	4.06	12 oz/a	A					
	COC	100	1 % v/v	A					
	AMMONIUM SULFATE	100	2.5 % v/v	A					
	ROUNDUP POWERMAX	5.5	32 oz/a	B					
	RAGE D-TECH	4.06	12 oz/a	B					
	DUAL II MAGNUM	7.64	1 pt/a	B					
	AATREX	4	1 pt/a	B					
	CADET	109	0.5 oz/a	C					
	AATREX	4	2 pt/a	C					
	ROUNDUP POWERMAX	5.5	32 oz/a	C					
	COC	100	1 % v/v	C					
4	AUTHORITY MTZ	45	8 oz/a	A	77	93	83	90	100
	RAGE D-TECH	4.06	12 oz/a	A					
	BASIS	75	0.5 oz/a	A					
	COC	100	1 % v/v	A					
	AMMONIUM SULFATE	100	2.5 % v/v	A					
	ROUNDUP POWERMAX	5.5	32 oz/a	B					
	RAGE D-TECH	4.06	12 oz/a	B					
	DUAL II MAGNUM	7.64	1 pt/a	B					
	AATREX	4	1 pt/a	B					
	CADET	109	0.5 oz/a	C					
	AATREX	4	2 pt/a	C					
	ROUNDUP POWERMAX	5.5	32 oz/a	C					
	COC	100	1 % v/v	C					
5	AUTHORITY MTZ	45	8 oz/a	A	78	100	78	88	78
	RAGE D-TECH	4.06	12 oz/a	A					
	RESOLVE SG	25	0.5 oz/a	A					
	Rimsulfuron	25	0.5 oz/a	A					
	Isoxadifen-Ethyl	50	0.125 oz/a	A					



# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	STEME	LAMPU	ERICA	CAPBP
Pest Scientific Name	Chenopodium al>	Stellaria media	Lamium purpure>	Conyza canaden>	Capsella bursa>
Pest Name	Common lambsqu>	Common chickwe>	Purple deadnet>	Canada horsewe>	Shepherd's pur>
Crop Code					
BCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	5/16/11	5/23/11	5/23/11	5/23/11	5/23/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	164 164	171 171	171 171	171 171	171 171
Trt-Eval Interval	164 DA-A	171 DA-A	171 DA-A	171 DA-A	171 DA-A
Plant-Eval Interval	-6 DP-1	1 DP-1	1 DP-1	1 DP-1	1 DP-1
Days After Emergence	-16 DE-1	-9 DE-1	-9 DE-1	-9 DE-1	-9 DE-1
Number of Decimals	0	0	0	0	0

Trt Treatment No. Name	Form Conc	Rate Rate	Appl Unit Code	21	22	23	24	25
5 COC	100	1 % v/v	A					
5 AMMONIUM SULFATE	100	2.5 % v/v	A					
5 ROUNDUP POWERMAX	5.5	32 oz/a	B					
5 RAGE D-TECH	4.06	12 oz/a	B					
5 DUAL II MAGNUM	7.64	1 pt/a	B					
5 AATREX	4	1 pt/a	B					
5 CADET	109	0.5 oz/a	C					
5 AATREX	4	2 pt/a	C					
5 ROUNDUP POWERMAX	5.5	32 oz/a	C					
5 COC	100	1 % v/v	C					
6 AUTHORITY MTZ	45	8 oz/a	A	80	98	63	70	73
6 RAGE D-TECH	4.06	12 oz/a	A					
6 EXPRESS SG	50	0.1 oz/a	A					
6 COC	100	1 % v/v	A					
6 AMMONIUM SULFATE	100	2.5 % v/v	A					
6 ROUNDUP POWERMAX	5.5	32 oz/a	B					
6 RAGE D-TECH	4.06	12 oz/a	B					
6 DUAL II MAGNUM	7.64	1 pt/a	B					
6 AATREX	4	1 pt/a	B					
6 CADET	109	0.5 oz/a	C					
6 AATREX	4	2 pt/a	C					
6 ROUNDUP POWERMAX	5.5	32 oz/a	C					
6 COC	100	1 % v/v	C					
7 AUTUMN	10	0.3 oz/a	A	60	98	47	57	53
7 RAGE D-TECH	4.06	12 oz/a	A					
7 COC	100	1 % v/v	A					
7 ROUNDUP POWERMAX	5.5	32 oz/a	B					
7 RAGE D-TECH	4.06	12 oz/a	B					
7 DUAL II MAGNUM	7.64	1 pt/a	B					
7 AATREX	4	1 pt/a	B					
7 CADET	109	0.5 oz/a	C					
7 AATREX	4	2 pt/a	C					
7 ROUNDUP POWERMAX	5.5	32 oz/a	C					
7 COC	100	1 % v/v	C					
8 SIMAZINE	4	2 qt/a	A	80	98	92	100	95
8 RAGE D-TECH	4.06	12 oz/a	A					
8 COC	100	1 % v/v	A					
8 AUTHORITY MTZ	45	5.5 oz/a	B					
8 DUAL MAGNUM	7.62	16 oz/a	B					
8 ROUNDUP POWERMAX	5.5	32 oz/a	B					
8 CADET	109	0.5 oz/a	C					
8 AATREX	4	2 pt/a	C					
8 ROUNDUP POWERMAX	5.5	32 oz/a	C					
8 COC	100	1 % v/v	C					
LSD (P=.05)				50.8	28.6	27.3	36.6	23.9
Standard Deviation				24.2	16.2	15.5	20.7	13.4
CV				36.43	20.34	26.78	33.13	19.54
Bartlett's X2				0.147	18.99	11.825	6.066	3.658
P(Bartlett's X2)				0.701	0.002*	0.066	0.30	0.454
Replicate F				13.285	0.051	0.707	2.374	0.349
Replicate Prob(F)				0.0100	0.9501	0.5109	0.1322	0.7124

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	STEME	LAMPU	ERICA	CAPBP
Pest Scientific Name	Chenopodium al>	Stellaria media	Lamium purpure>	Conyza canadens>	Capsella bursa>
Pest Name	Common lambsq>	Common chickwe>	Purple deadnet>	Canada horsewe>	Shepherd's pur>
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	5/16/11	5/23/11	5/23/11	5/23/11	5/23/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	164 164	171 171	171 171	171 171	171 171
Trt-Eval Interval	164 DA-A	171 DA-A	171 DA-A	171 DA-A	171 DA-A
Plant-Eval Interval	-6 DP-1	1 DP-1	1 DP-1	1 DP-1	1 DP-1
Days After Emergence	-16 DE-1	-9 DE-1	-9 DE-1	-9 DE-1	-9 DE-1
Number of Decimals	0	0	0	0	0
Trt Treatment	Form	Rate	Appl		
No. Name	Conc Rate	Unit	Code	21	22
Treatment F				3.922	13.306
Treatment Prob(F)				0.0758	0.0001
				10.738	8.096
				0.0002	0.0007
				19.136	0.0001

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	VERAR	AMBTR	AMBEL	POLPY	CHEAL
Pest Scientific Name	Veronica arven>	Ambrosia trifi>	Ambrosia artem>	Persicaria pen>	Chenopodium al>
Pest Name	Corn speedwell	Giant ragweed	Common ragweed	Pennsylvania s>	Common lambsqu>
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	5/23/11	5/23/11	5/23/11	5/23/11	5/23/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	171 171	171 171	171 171	171 171	171 171
Trt-Eval Interval	171 DA-A	171 DA-A	171 DA-A	171 DA-A	171 DA-A
Plant-Eval Interval	1 DP-1	1 DP-1	1 DP-1	1 DP-1	1 DP-1
Days After Emergence	-9 DE-1	-9 DE-1	-9 DE-1	-9 DE-1	-9 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate Rate	Appl Unit	Code	26	27	28	29	30
1	UNTREATED					0	0	0	0	0
2	AUTHORITY MTZ	45	14 oz/a	A		87	47	28	57	
	RAGE D-TECH	4.06	12 oz/a	A						
	COC	100	1 % v/v	A						
	AMMONIUM SULFATE	100	2.5 % v/v	A						
	ROUNDUP POWERMAX	5.5	32 oz/a	B						
	F9310-6	2	9 oz/a	B						
	AATREX	4	1.5 qt/a	B						
	AMMONIUM SULFATE	100	2.5 % v/v	B						
	CADET	109	0.5 oz/a	C						
	AATREX	4	2 pt/a	C						
	ROUNDUP POWERMAX	5.5	32 oz/a	C						
	COC	100	1 % v/v	C						
3	AUTHORITY MTZ	45	8 oz/a	A		67	20	30	30	
	RAGE D-TECH	4.06	12 oz/a	A						
	COC	100	1 % v/v	A						
	AMMONIUM SULFATE	100	2.5 % v/v	A						
	ROUNDUP POWERMAX	5.5	32 oz/a	B						
	RAGE D-TECH	4.06	12 oz/a	B						
	DUAL II MAGNUM	7.64	1 pt/a	B						
	AATREX	4	1 pt/a	B						
	CADET	109	0.5 oz/a	C						
	AATREX	4	2 pt/a	C						
	ROUNDUP POWERMAX	5.5	32 oz/a	C						
	COC	100	1 % v/v	C						
4	AUTHORITY MTZ	45	8 oz/a	A		43	60	50	83	79
	RAGE D-TECH	4.06	12 oz/a	A						
	BASIS	75	0.5 oz/a	A						
	COC	100	1 % v/v	A						
	AMMONIUM SULFATE	100	2.5 % v/v	A						
	ROUNDUP POWERMAX	5.5	32 oz/a	B						
	RAGE D-TECH	4.06	12 oz/a	B						
	DUAL II MAGNUM	7.64	1 pt/a	B						
	AATREX	4	1 pt/a	B						
	CADET	109	0.5 oz/a	C						
	AATREX	4	2 pt/a	C						
	ROUNDUP POWERMAX	5.5	32 oz/a	C						
	COC	100	1 % v/v	C						
5	AUTHORITY MTZ	45	8 oz/a	A		97	66	48	100	
	RAGE D-TECH	4.06	12 oz/a	A						
	RESOLVE SG	25	0.5 oz/a	A						
	Rimsulfuron	25	0.5 oz/a	A						
	Isxadifen-Ethyl	50	0.125 oz/a	A						

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	VERAR	AMBTR	AMBEL	POLPY	CHEAL
Pest Scientific Name	Veronica arven>	Ambrosia trifi>	Ambrosia artem>	Persicaria pen>	Chenopodium al>
Pest Name	Corn speedwell	Giant ragweed	Common ragweed	Pennsylvania s>	Common lambsqu>
Crop Code					
BCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	5/23/11	5/23/11	5/23/11	5/23/11	5/23/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	171 171	171 171	171 171	171 171	171 171
Trt-Eval Interval	171 DA-A	171 DA-A	171 DA-A	171 DA-A	171 DA-A
Plant-Eval Interval	1 DP-1	1 DP-1	1 DP-1	1 DP-1	1 DP-1
Days After Emergence	-9 DE-1	-9 DE-1	-9 DE-1	-9 DE-1	-9 DE-1
Number of Decimals	0	0	0	0	0

Trt Treatment	Form	Rate	Appl					
No. Name	Conc	Rate	Unit Code	26	27	28	29	30
5 COC	100	1 %	v/v A					
5 AMMONIUM SULFATE	100	2.5 %	v/v A					
5 ROUNDUP POWERMAX	5.5	32 oz/a	B					
5 RAGE D-TECH	4.06	12 oz/a	B					
5 DUAL II MAGNUM	7.64	1 pt/a	B					
5 AATREX	4	1 pt/a	B					
5 CADET	109	0.5 oz/a	C					
5 AATREX	4	2 pt/a	C					
5 ROUNDUP POWERMAX	5.5	32 oz/a	C					
5 COC	100	1 %	v/v C					
6 AUTHORITY MTZ	45	8 oz/a	A	100	23	10	40	76
6 RAGE D-TECH	4.06	12 oz/a	A					
6 EXPRESS SG	50	0.1 oz/a	A					
6 COC	100	1 %	v/v A					
6 AMMONIUM SULFATE	100	2.5 %	v/v A					
6 ROUNDUP POWERMAX	5.5	32 oz/a	B					
6 RAGE D-TECH	4.06	12 oz/a	B					
6 DUAL II MAGNUM	7.64	1 pt/a	B					
6 AATREX	4	1 pt/a	B					
6 CADET	109	0.5 oz/a	C					
6 AATREX	4	2 pt/a	C					
6 ROUNDUP POWERMAX	5.5	32 oz/a	C					
6 COC	100	1 %	v/v C					
7 AUTUMN	10	0.3 oz/a	A	10	23	10	0	0
7 RAGE D-TECH	4.06	12 oz/a	A					
7 COC	100	1 %	v/v A					
7 ROUNDUP POWERMAX	5.5	32 oz/a	B					
7 RAGE D-TECH	4.06	12 oz/a	B					
7 DUAL II MAGNUM	7.64	1 pt/a	B					
7 AATREX	4	1 pt/a	B					
7 CADET	109	0.5 oz/a	C					
7 AATREX	4	2 pt/a	C					
7 ROUNDUP POWERMAX	5.5	32 oz/a	C					
7 COC	100	1 %	v/v C					
8 SIMAZINE	4	2 qt/a	A	100	73	88	72	89
8 RAGE D-TECH	4.06	12 oz/a	A					
8 COC	100	1 %	v/v A					
8 AUTHORITY MTZ	45	5.5 oz/a	B					
8 DUAL MAGNUM	7.62	16 oz/a	B					
8 ROUNDUP POWERMAX	5.5	32 oz/a	B					
8 CADET	109	0.5 oz/a	C					
8 AATREX	4	2 pt/a	C					
8 ROUNDUP POWERMAX	5.5	32 oz/a	C					
8 COC	100	1 %	v/v C					
LSD (P=.05)				26.9	29.0	45.1	44.0	35.1
Standard Deviation				15.3	16.4	25.4	24.5	15.5
CV				24.28	41.97	76.75	51.29	31.63
Bartlett's X2				3.912	4.347	5.976	1.371	0.42
P(Bartlett's X2)				0.271	0.63	0.426	0.849	0.517
Replicate F				1.357	7.509	0.741	0.472	0.154
Replicate Prob(F)				0.2916	0.0068	0.4971	0.6361	0.8618

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	VERAR	AMBTR	AMBEL	POLPY	CHEAL
Pest Scientific Name	Veronica arven>	Ambrosia trifi>	Ambrosia artem>	Persicaria pen>	Chenopodium al>
Pest Name	Corn speedwell	Giant ragweed	Common ragweed	Pennsylvania s>	Common lambsqu>
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	5/23/11	5/23/11	5/23/11	5/23/11	5/23/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	171 171	171 171	171 171	171 171	171 171
Trt-Eval Interval	171 DA-A	171 DA-A	171 DA-A	171 DA-A	171 DA-A
Plant-Eval Interval	1 DP-1	1 DP-1	1 DP-1	1 DP-1	1 DP-1
Days After Emergence	-9 DE-1	-9 DE-1	-9 DE-1	-9 DE-1	-9 DE-1
Number of Decimals	0	0	0	0	0
Trt Treatment	Form	Rate	Appl		
No. Name	Conc Rate	Unit	Code	26	27
Treatment F				21.324	7.624
Treatment Prob(F)				0.0001	0.0009
				3.834	6.860
				0.0202	0.0027
				25.299	0.0042

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed					
Pest Code	ERICA	SETFA	AMBTR	AMBEL	CHEAL					
Pest Scientific Name	Conyza canadensis> Setaria faberi Ambrosia trifida> Ambrosia artemisiifolia> Chenopodium album>									
Pest Name	Canada horseweed> Giant foxtail Giant ragweed Common ragweed Common lambsquarters>									
Crop Code										
BBCH Scale										
Crop Scientific Name										
Crop Name										
Rating Date	6/1/11	6/1/11	6/1/11	6/1/11	6/1/11					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%					
Number of Subsamples	1	1	1	1	1					
Days After First/Last Applic.	180 8	180 8	180 8	180 8	180 8					
Trt-Eval Interval	8 DA-B	8 DA-B	8 DA-B	8 DA-B	8 DA-B					
Plant-Eval Interval	10 DP-1	10 DP-1	10 DP-1	10 DP-1	10 DP-1					
Days After Emergence	0 DE-1	0 DE-1	0 DE-1	0 DE-1	0 DE-1					
Number of Decimals	0	0	0	0	0					
Trt No.	Treatment Name	Form Conc	Rate Rate	Appl Unit	Code	31	32	33	34	35
1	UNTREATED					0	0	0	0	0
2	AUTHORITY MTZ	45	14 oz/a	A		53	100	75	100	100
	RAGE D-TECH	4.06	12 oz/a	A						
	COC	100	1 % v/v	A						
	AMMONIUM SULFATE	100	2.5 % v/v	A						
	ROUNDUP POWERMAX	5.5	32 oz/a	B						
	F9310-6	2	9 oz/a	B						
	AATREX	4	1.5 qt/a	B						
	AMMONIUM SULFATE	100	2.5 % v/v	B						
	CADET	109	0.5 oz/a	C						
	AATREX	4	2 pt/a	C						
	ROUNDUP POWERMAX	5.5	32 oz/a	C						
	COC	100	1 % v/v	C						
3	AUTHORITY MTZ	45	8 oz/a	A		50	100	77	80	100
	RAGE D-TECH	4.06	12 oz/a	A						
	COC	100	1 % v/v	A						
	AMMONIUM SULFATE	100	2.5 % v/v	A						
	ROUNDUP POWERMAX	5.5	32 oz/a	B						
	RAGE D-TECH	4.06	12 oz/a	B						
	DUAL II MAGNUM	7.64	1 pt/a	B						
	AATREX	4	1 pt/a	B						
	CADET	109	0.5 oz/a	C						
	AATREX	4	2 pt/a	C						
	ROUNDUP POWERMAX	5.5	32 oz/a	C						
	COC	100	1 % v/v	C						
4	AUTHORITY MTZ	45	8 oz/a	A		83	100	83	100	100
	RAGE D-TECH	4.06	12 oz/a	A						
	BASIS	75	0.5 oz/a	A						
	COC	100	1 % v/v	A						
	AMMONIUM SULFATE	100	2.5 % v/v	A						
	ROUNDUP POWERMAX	5.5	32 oz/a	B						
	RAGE D-TECH	4.06	12 oz/a	B						
	DUAL II MAGNUM	7.64	1 pt/a	B						
	AATREX	4	1 pt/a	B						
	CADET	109	0.5 oz/a	C						
	AATREX	4	2 pt/a	C						
	ROUNDUP POWERMAX	5.5	32 oz/a	C						
	COC	100	1 % v/v	C						
5	AUTHORITY MTZ	45	8 oz/a	A		93	100	90	90	100
	RAGE D-TECH	4.06	12 oz/a	A						
	RESOLVE SG	25	0.5 oz/a	A						
	Rimsulfuron	25	0.5 oz/a	A						
	Isoxadifen-Ethyl	50	0.125 oz/a	A						

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	SETFA	AMBTR	AMBEL	CHEAL
Pest Scientific Name	Conyza canadensis	Setaria faberi	Ambrosia trifida	Ambrosia artemisiifolia	Chenopodium album
Pest Name	Canada horseweed	Giant foxtail	Giant ragweed	Common ragweed	Common lambsquarters
Crop Code					
BCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	6/1/11	6/1/11	6/1/11	6/1/11	6/1/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	180 8	180 8	180 8	180 8	180 8
Trt-Eval Interval	8 DA-B	8 DA-B	8 DA-B	8 DA-B	8 DA-B
Plant-Eval Interval	10 DP-1	10 DP-1	10 DP-1	10 DP-1	10 DP-1
Days After Emergence	0 DE-1	0 DE-1	0 DE-1	0 DE-1	0 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Appl Unit	Code	31	32	33	34	35
5	COC	100	1	% v/v	A					
5	AMMONIUM SULFATE	100	2.5	% v/v	A					
5	ROUNDUP POWERMAX	5.5	32	oz/a	B					
5	RAGE D-TECH	4.06	12	oz/a	B					
5	DUAL II MAGNUM	7.64	1	pt/a	B					
5	AATREX	4	1	pt/a	B					
5	CADET	109	0.5	oz/a	C					
5	AATREX	4	2	pt/a	C					
5	ROUNDUP POWERMAX	5.5	32	oz/a	C					
5	COC	100	1	% v/v	C					
6	AUTHORITY MTZ	45	8	oz/a	A	67	100	77	88	100
6	RAGE D-TECH	4.06	12	oz/a	A					
6	EXPRESS SG	50	0.1	oz/a	A					
6	COC	100	1	% v/v	A					
6	AMMONIUM SULFATE	100	2.5	% v/v	A					
6	ROUNDUP POWERMAX	5.5	32	oz/a	B					
6	RAGE D-TECH	4.06	12	oz/a	B					
6	DUAL II MAGNUM	7.64	1	pt/a	B					
6	AATREX	4	1	pt/a	B					
6	CADET	109	0.5	oz/a	C					
6	AATREX	4	2	pt/a	C					
6	ROUNDUP POWERMAX	5.5	32	oz/a	C					
6	COC	100	1	% v/v	C					
7	AUTUMN	10	0.3	oz/a	A	60	100	80	100	100
7	RAGE D-TECH	4.06	12	oz/a	A					
7	COC	100	1	% v/v	A					
7	ROUNDUP POWERMAX	5.5	32	oz/a	B					
7	RAGE D-TECH	4.06	12	oz/a	B					
7	DUAL II MAGNUM	7.64	1	pt/a	B					
7	AATREX	4	1	pt/a	B					
7	CADET	109	0.5	oz/a	C					
7	AATREX	4	2	pt/a	C					
7	ROUNDUP POWERMAX	5.5	32	oz/a	C					
7	COC	100	1	% v/v	C					
8	SIMAZINE	4	2	qt/a	A	100	100	88	100	100
8	RAGE D-TECH	4.06	12	oz/a	A					
8	COC	100	1	% v/v	A					
8	AUTHORITY MTZ	45	5.5	oz/a	B					
8	DUAL MAGNUM	7.62	16	oz/a	B					
8	ROUNDUP POWERMAX	5.5	32	oz/a	B					
8	CADET	109	0.5	oz/a	C					
8	AATREX	4	2	pt/a	C					
8	ROUNDUP POWERMAX	5.5	32	oz/a	C					
8	COC	100	1	% v/v	C					
LSD (P=.05)			19.2				0.0	7.6	14.6	0.0
Standard Deviation			10.9				0.0	4.3	8.3	0.0
CV			17.15				0.0	6.05	10.05	0.0
Bartlett's X2			7.369				0.0	2.835	0.463	0.0
P(Bartlett's X2)			0.118				.	0.725	0.793	.
Replicate F			2.261				0.000	6.052	0.930	0.000
Replicate Prob(F)			0.1437				1.0000	0.0139	0.4194	1.0000

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	SETFA	AMBTR	AMBEL	CHEAL
Pest Scientific Name	Conyza canadensis	Setaria faberii	Ambrosia trifida	Ambrosia artemisiifolia	Chenopodium album
Pest Name	Canada horseweed	Giant foxtail	Giant ragweed	Common ragweed	Common lambsquarters
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	6/1/11	6/1/11	6/1/11	6/1/11	6/1/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	180 8	180 8	180 8	180 8	180 8
Trt-Eval Interval	8 DA-B	8 DA-B	8 DA-B	8 DA-B	8 DA-B
Plant-Eval Interval	10 DP-1	10 DP-1	10 DP-1	10 DP-1	10 DP-1
Days After Emergence	0 DE-1	0 DE-1	0 DE-1	0 DE-1	0 DE-1
Number of Decimals	0	0	0	0	0
Trt Treatment	Form	Rate	Appl		
No. Name	Conc Rate	Unit	Code	31	32
Treatment F				25.273	0.000
Treatment Prob(F)				0.0001	1.0000
				138.677	0.0001
				50.917	0.0001
					0.000
					1.0000



# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	POLPY	SETFA	ECHCG	AMBTR	AMBEL
Pest Scientific Name	Persicaria pen>	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Ambrosia artem>
Pest Name	Pennsylvania s>	Giant foxtail	Common barnyar>	Giant ragweed	Common ragweed
Crop Code	ZEAMX				
BBCH Scale	BCOR				
Crop Scientific Name	Zea mays				
Crop Name	Corn				
Rating Date	6/1/11	6/9/11	6/9/11	6/9/11	6/9/11
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	180 8	188 16	188 16	188 16	188 16
Trt-Eval Interval	8 DA-B	16 DA-B	16 DA-B	16 DA-B	16 DA-B
Plant-Eval Interval	10 DP-1	18 DP-1	18 DP-1	18 DP-1	18 DP-1
Days After Emergence	0 DE-1	8 DE-1	8 DE-1	8 DE-1	8 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate Rate	Appl Unit	Code	36	37	38	39	40	41
1	UNTREATED					0	0	0	0	0	0
2	AUTHORITY MTZ	45	14 oz/a	A		100	0	94	94	90	100
2	RAGE D-TECH	4.06	12 oz/a	A							
2	COC	100	1 % v/v	A							
2	AMMONIUM SULFATE	100	2.5 % v/v	A							
2	ROUNDUP POWERMAX	5.5	32 oz/a	B							
2	F9310-6	2	9 oz/a	B							
2	AATREX	4	1.5 qt/a	B							
2	AMMONIUM SULFATE	100	2.5 % v/v	B							
2	CADET	109	0.5 oz/a	C							
2	AATREX	4	2 pt/a	C							
2	ROUNDUP POWERMAX	5.5	32 oz/a	C							
2	COC	100	1 % v/v	C							
3	AUTHORITY MTZ	45	8 oz/a	A		90	0	94	94	93	86
3	RAGE D-TECH	4.06	12 oz/a	A							
3	COC	100	1 % v/v	A							
3	AMMONIUM SULFATE	100	2.5 % v/v	A							
3	ROUNDUP POWERMAX	5.5	32 oz/a	B							
3	RAGE D-TECH	4.06	12 oz/a	B							
3	DUAL II MAGNUM	7.64	1 pt/a	B							
3	AATREX	4	1 pt/a	B							
3	CADET	109	0.5 oz/a	C							
3	AATREX	4	2 pt/a	C							
3	ROUNDUP POWERMAX	5.5	32 oz/a	C							
3	COC	100	1 % v/v	C							
4	AUTHORITY MTZ	45	8 oz/a	A		100	0	99	99	69	100
4	RAGE D-TECH	4.06	12 oz/a	A							
4	BASIS	75	0.5 oz/a	A							
4	COC	100	1 % v/v	A							
4	AMMONIUM SULFATE	100	2.5 % v/v	A							
4	ROUNDUP POWERMAX	5.5	32 oz/a	B							
4	RAGE D-TECH	4.06	12 oz/a	B							
4	DUAL II MAGNUM	7.64	1 pt/a	B							
4	AATREX	4	1 pt/a	B							
4	CADET	109	0.5 oz/a	C							
4	AATREX	4	2 pt/a	C							
4	ROUNDUP POWERMAX	5.5	32 oz/a	C							
4	COC	100	1 % v/v	C							
5	AUTHORITY MTZ	45	8 oz/a	A		100	0	93	93	98	94
5	RAGE D-TECH	4.06	12 oz/a	A							
5	RESOLVE SG	25	0.5 oz/a	A							
5	Rimsulfuron	25	0.5 oz/a	A							
5	Isoxadifen-Ethyl	50	0.125 oz/a	A							

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	POLPY	SETFA	ECHCG	AMBTR	AMBEL
Pest Scientific Name	Persicaria pen>	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Ambrosia artem>
Pest Name	Pennsylvania s>	Giant foxtail	Common barnyar>	Giant ragweed	Common ragweed
Crop Code	ZEAMX				
BBCH Scale	BCOR				
Crop Scientific Name	Zea mays				
Crop Name	Corn				
Rating Date	6/1/11	6/9/11	6/9/11	6/9/11	6/9/11
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	180 8	188 16	188 16	188 16	188 16
Trt-Eval Interval	8 DA-B	16 DA-B	16 DA-B	16 DA-B	16 DA-B
Plant-Eval Interval	10 DP-1	18 DP-1	18 DP-1	18 DP-1	18 DP-1
Days After Emergence	0 DE-1	8 DE-1	8 DE-1	8 DE-1	8 DE-1
Number of Decimals	0	0	0	0	0

Trt	Treatment	Form	Rate	Appl	36	37	38	39	40	41
No.	Name	Conc	Rate	Unit	Code					
5	COC	100	1 % v/v	A						
5	AMMONIUM SULFATE	100	2.5 % v/v	A						
5	ROUNDUP POWERMAX	5.5	32 oz/a	B						
5	RAGE D-TECH	4.06	12 oz/a	B						
5	DUAL II MAGNUM	7.64	1 pt/a	B						
5	AATREX	4	1 pt/a	B						
5	CADET	109	0.5 oz/a	C						
5	AATREX	4	2 pt/a	C						
5	ROUNDUP POWERMAX	5.5	32 oz/a	C						
5	COC	100	1 % v/v	C						
6	AUTHORITY MTZ	45	8 oz/a	A	90	0	92	92	97	90
6	RAGE D-TECH	4.06	12 oz/a	A						
6	EXPRESS SG	50	0.1 oz/a	A						
6	COC	100	1 % v/v	A						
6	AMMONIUM SULFATE	100	2.5 % v/v	A						
6	ROUNDUP POWERMAX	5.5	32 oz/a	B						
6	RAGE D-TECH	4.06	12 oz/a	B						
6	DUAL II MAGNUM	7.64	1 pt/a	B						
6	AATREX	4	1 pt/a	B						
6	CADET	109	0.5 oz/a	C						
6	AATREX	4	2 pt/a	C						
6	ROUNDUP POWERMAX	5.5	32 oz/a	C						
6	COC	100	1 % v/v	C						
7	AUTUMN	10	0.3 oz/a	A	90	0	89	89	93	95
7	RAGE D-TECH	4.06	12 oz/a	A						
7	COC	100	1 % v/v	A						
7	ROUNDUP POWERMAX	5.5	32 oz/a	B						
7	RAGE D-TECH	4.06	12 oz/a	B						
7	DUAL II MAGNUM	7.64	1 pt/a	B						
7	AATREX	4	1 pt/a	B						
7	CADET	109	0.5 oz/a	C						
7	AATREX	4	2 pt/a	C						
7	ROUNDUP POWERMAX	5.5	32 oz/a	C						
7	COC	100	1 % v/v	C						
8	SIMAZINE	4	2 qt/a	A	100	0	98	98	90	100
8	RAGE D-TECH	4.06	12 oz/a	A						
8	COC	100	1 % v/v	A						
8	AUTHORITY MTZ	45	5.5 oz/a	B						
8	DUAL MAGNUM	7.62	16 oz/a	B						
8	ROUNDUP POWERMAX	5.5	32 oz/a	B						
8	CADET	109	0.5 oz/a	C						
8	AATREX	4	2 pt/a	C						
8	ROUNDUP POWERMAX	5.5	32 oz/a	C						
8	COC	100	1 % v/v	C						
LSD (P=.05)					16.4	0.0	7.5	7.5	37.7	14.5
Standard Deviation					9.3	0.0	4.2	4.2	21.4	8.2
CV					11.11	0.0	5.15	5.15	27.11	9.87
Bartlett's X2					0.0	0.0	8.43	8.43	12.83	0.755
P(Bartlett's X2)					.	.	0.208	0.208	0.025*	0.86
Replicate F					3.900	0.000	2.254	2.254	0.731	0.001
Replicate Prob(F)					0.0471	1.0000	0.1445	0.1445	0.5003	0.9992

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed		W Weed		W Weed		W Weed		W Weed		
Pest Code	POLPY		SETFA		ECHCG		AMBTR		AMBEL		
Pest Scientific Name	Persicaria pen>		Setaria faberi		Echinochloa cr>		Ambrosia trifi>		Ambrosia artem>		
Pest Name	Pennsylvania s>		Giant foxtail		Common barnyar>		Giant ragweed		Common ragweed		
Crop Code	ZEAMX										
BBCH Scale	BCOR										
Crop Scientific Name	Zea mays										
Crop Name	Corn										
Rating Date	6/1/11		6/9/11		6/9/11		6/9/11		6/9/11		
Rating Type	CONTRO		PHYGEN		CONTRO		CONTRO		CONTRO		
Rating Unit	%		%		%		%		%		
Number of Subsamples	1		1		1		1		1		
Days After First/Last Applic.	180 8		188 16		188 16		188 16		188 16		
Trt-Eval Interval	8 DA-B		16 DA-B		16 DA-B		16 DA-B		16 DA-B		
Plant-Eval Interval	10 DP-1		18 DP-1		18 DP-1		18 DP-1		18 DP-1		
Days After Emergence	0 DE-1		8 DE-1		8 DE-1		8 DE-1		8 DE-1		
Number of Decimals	0		0		0		0		0		
Trt Treatment	Form	Rate	Appl								
No. Name	Conc	Rate	Unit Code	36	37	38	39	40	41		
Treatment F				40.548	0.000	186.467	186.467	7.202	51.448		
Treatment Prob(F)				0.0001	1.0000	0.0001	0.0001	0.0012	0.0001		

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	POLPY	ERICA	SETFA	ECHCG	AMBTR
Pest Scientific Name	Persicaria pen>	Conyza canad>	Setaria faberi	Echinochloa cr>	Ambrosia trifi>
Pest Name	Pennsylvania s>	Canada horsewe>	Giant foxtail	Common barnyar>	Giant ragweed
Crop Code			ZEAMX		
BBCH Scale			BCOR		
Crop Scientific Name			Zea mays		
Crop Name			Corn		
Rating Date	6/9/11	6/9/11	6/20/11	6/20/11	6/20/11
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	188 16	188 16	199 27	199 27	199 27
Trt-Eval Interval	16 DA-B	16 DA-B	27 DA-B	27 DA-B	27 DA-B
Plant-Eval Interval	18 DP-1	18 DP-1	29 DP-1	29 DP-1	29 DP-1
Days After Emergence	8 DE-1	8 DE-1	19 DE-1	19 DE-1	19 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate Rate	Appl Unit	Code	42	43	44	45	46	47
1	UNTREATED					0	0	0	0	0	0
2	AUTHORITY MTZ	45	14 oz/a	A		100	73	0	77	70	85
	RAGE D-TECH	4.06	12 oz/a	A							
	COC	100	1 % v/v	A							
	AMMONIUM SULFATE	100	2.5 % v/v	A							
	ROUNDUP POWERMAX	5.5	32 oz/a	B							
	F9310-6	2	9 oz/a	B							
	AATREX	4	1.5 qt/a	B							
	AMMONIUM SULFATE	100	2.5 % v/v	B							
	CADET	109	0.5 oz/a	C							
	AATREX	4	2 pt/a	C							
	ROUNDUP POWERMAX	5.5	32 oz/a	C							
	COC	100	1 % v/v	C							
3	AUTHORITY MTZ	45	8 oz/a	A		100	80	0	67	63	83
	RAGE D-TECH	4.06	12 oz/a	A							
	COC	100	1 % v/v	A							
	AMMONIUM SULFATE	100	2.5 % v/v	A							
	ROUNDUP POWERMAX	5.5	32 oz/a	B							
	RAGE D-TECH	4.06	12 oz/a	B							
	DUAL II MAGNUM	7.64	1 pt/a	B							
	AATREX	4	1 pt/a	B							
	CADET	109	0.5 oz/a	C							
	AATREX	4	2 pt/a	C							
	ROUNDUP POWERMAX	5.5	32 oz/a	C							
	COC	100	1 % v/v	C							
4	AUTHORITY MTZ	45	8 oz/a	A		100	98	0	83	78	97
	RAGE D-TECH	4.06	12 oz/a	A							
	BASIS	75	0.5 oz/a	A							
	COC	100	1 % v/v	A							
	AMMONIUM SULFATE	100	2.5 % v/v	A							
	ROUNDUP POWERMAX	5.5	32 oz/a	B							
	RAGE D-TECH	4.06	12 oz/a	B							
	DUAL II MAGNUM	7.64	1 pt/a	B							
	AATREX	4	1 pt/a	B							
	CADET	109	0.5 oz/a	C							
	AATREX	4	2 pt/a	C							
	ROUNDUP POWERMAX	5.5	32 oz/a	C							
	COC	100	1 % v/v	C							
5	AUTHORITY MTZ	45	8 oz/a	A		100	100	0	66	66	90
	RAGE D-TECH	4.06	12 oz/a	A							
	RESOLVE SG	25	0.5 oz/a	A							
	Rimsulfuron	25	0.5 oz/a	A							
	Isoxadifen-Ethyl	50	0.125 oz/a	A							

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	POLPY	ERICA	SETFA	ECHCG	AMBTR
Pest Scientific Name	Persicaria pen>	Conyza canadens>	Setaria faberi	Echinochloa cr>	Ambrosia trifi>
Pest Name	Pennsylvania s>	Canada horsewe>	Giant foxtail	Common barnyar>	Giant ragweed
Crop Code			ZEAMX		
BBCH Scale			BCOR		
Crop Scientific Name			Zea mays		
Crop Name			Corn		
Rating Date	6/9/11	6/9/11	6/20/11	6/20/11	6/20/11
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	188 16	188 16	199 27	199 27	199 27
Trt-Eval Interval	16 DA-B	16 DA-B	27 DA-B	27 DA-B	27 DA-B
Plant-Eval Interval	18 DP-1	18 DP-1	29 DP-1	29 DP-1	29 DP-1
Days After Emergence	8 DE-1	8 DE-1	19 DE-1	19 DE-1	19 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Appl Unit	Code	42	43	44	45	46	47	
5	COC	100	1 % v/v	A								
5	AMMONIUM SULFATE	100	2.5 % v/v	A								
5	ROUNDUP POWERMAX	5.5	32 oz/a	B								
5	RAGE D-TECH	4.06	12 oz/a	B								
5	DUAL II MAGNUM	7.64	1 pt/a	B								
5	AATREX	4	1 pt/a	B								
5	CADET	109	0.5 oz/a	C								
5	AATREX	4	2 pt/a	C								
5	ROUNDUP POWERMAX	5.5	32 oz/a	C								
5	COC	100	1 % v/v	C								
6	AUTHORITY MTZ	45	8 oz/a	A		100		87	0	67	60	82
6	RAGE D-TECH	4.06	12 oz/a	A								
6	EXPRESS SG	50	0.1 oz/a	A								
6	COC	100	1 % v/v	A								
6	AMMONIUM SULFATE	100	2.5 % v/v	A								
6	ROUNDUP POWERMAX	5.5	32 oz/a	B								
6	RAGE D-TECH	4.06	12 oz/a	B								
6	DUAL II MAGNUM	7.64	1 pt/a	B								
6	AATREX	4	1 pt/a	B								
6	CADET	109	0.5 oz/a	C								
6	AATREX	4	2 pt/a	C								
6	ROUNDUP POWERMAX	5.5	32 oz/a	C								
6	COC	100	1 % v/v	C								
7	AUTUMN	10	0.3 oz/a	A		100		83	0	72	60	87
7	RAGE D-TECH	4.06	12 oz/a	A								
7	COC	100	1 % v/v	A								
7	ROUNDUP POWERMAX	5.5	32 oz/a	B								
7	RAGE D-TECH	4.06	12 oz/a	B								
7	DUAL II MAGNUM	7.64	1 pt/a	B								
7	AATREX	4	1 pt/a	B								
7	CADET	109	0.5 oz/a	C								
7	AATREX	4	2 pt/a	C								
7	ROUNDUP POWERMAX	5.5	32 oz/a	C								
7	COC	100	1 % v/v	C								
8	SIMAZINE	4	2 qt/a	A		100		99	0	75	60	87
8	RAGE D-TECH	4.06	12 oz/a	A								
8	COC	100	1 % v/v	A								
8	AUTHORITY MTZ	45	5.5 oz/a	B								
8	DUAL MAGNUM	7.62	16 oz/a	B								
8	ROUNDUP POWERMAX	5.5	32 oz/a	B								
8	CADET	109	0.5 oz/a	C								
8	AATREX	4	2 pt/a	C								
8	ROUNDUP POWERMAX	5.5	32 oz/a	C								
8	COC	100	1 % v/v	C								
LSD (P=.05)						0.0		19.5	0.0	14.3	23.9	20.3
Standard Deviation						0.0		11.1	0.0	8.1	13.5	11.5
CV						0.0		14.27	0.0	12.83	23.67	15.07
Bartlett's X2						0.0		13.663	0.0	7.064	1.758	5.318
P(Bartlett's X2)						.		0.018*	.	0.315	0.624	0.504
Replicate F						0.000		2.335	0.000	2.513	0.153	0.984
Replicate Prob(F)						1.0000		0.1361	1.0000	0.1195	0.8595	0.4000

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	POLPY	ERICA	SETFA	ECHCG	AMBTR
Pest Scientific Name	Persicaria pen>	Conyza canaden>	Setaria faberi	Echinochloa cr>	Ambrosia trifi>
Pest Name	Pennsylvania s>	Canada horsewe>	Giant foxtail	Common barnyar>	Giant ragweed
Crop Code			ZEAMX		
BBCH Scale			BCOR		
Crop Scientific Name			Zea mays		
Crop Name			Corn		
Rating Date	6/9/11	6/9/11	6/20/11	6/20/11	6/20/11
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	188 16	188 16	199 27	199 27	199 27
Trt-Eval Interval	16 DA-B	16 DA-B	27 DA-B	27 DA-B	27 DA-B
Plant-Eval Interval	18 DP-1	18 DP-1	29 DP-1	29 DP-1	29 DP-1
Days After Emergence	8 DE-1	8 DE-1	19 DE-1	19 DE-1	19 DE-1
Number of Decimals	0	0	0	0	0
Trt Treatment	Form	Rate	Appl		
No. Name	Conc Rate	Unit	Code	42	43
Treatment F	0.000			0.000	31.399
Treatment Prob(F)	1.0000			0.0001	0.0003

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBEL	POLPY	ERICA	SETFA
Pest Scientific Name	Ambrosia artem>	Persicaria pen>	Conyza canadens>	Setaria faberi
Pest Name	Common ragweed	Pennsylvania s>	Canada horsewe>	Giant foxtail
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	6/28/11
Rating Type	CONTRO	CONTRO	CONTRO	PHYNEC
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	199 27	199 27	199 27	207 7
Trt-Eval Interval	27 DA-B	27 DA-B	27 DA-B	7 DA-C
Plant-Eval Interval	29 DP-1	29 DP-1	29 DP-1	37 DP-1
Days After Emergence	19 DE-1	19 DE-1	19 DE-1	27 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate Rate	Appl Unit	Code	48	49	50	51	52
1	UNTREATED					0	0	0	5.0	90
2	AUTHORITY MTZ	45	14 oz/a	A		83	100	57	5.0	100
	RAGE D-TECH	4.06	12 oz/a	A						
	COC	100	1 % v/v	A						
	AMMONIUM SULFATE	100	2.5 % v/v	A						
	ROUNDUP POWERMAX	5.5	32 oz/a	B						
	F9310-6	2	9 oz/a	B						
	AATREX	4	1.5 qt/a	B						
	AMMONIUM SULFATE	100	2.5 % v/v	B						
	CADET	109	0.5 oz/a	C						
	AATREX	4	2 pt/a	C						
	ROUNDUP POWERMAX	5.5	32 oz/a	C						
	COC	100	1 % v/v	C						
3	AUTHORITY MTZ	45	8 oz/a	A		67	100	53	5.0	100
	RAGE D-TECH	4.06	12 oz/a	A						
	COC	100	1 % v/v	A						
	AMMONIUM SULFATE	100	2.5 % v/v	A						
	ROUNDUP POWERMAX	5.5	32 oz/a	B						
	RAGE D-TECH	4.06	12 oz/a	B						
	DUAL II MAGNUM	7.64	1 pt/a	B						
	AATREX	4	1 pt/a	B						
	CADET	109	0.5 oz/a	C						
	AATREX	4	2 pt/a	C						
	ROUNDUP POWERMAX	5.5	32 oz/a	C						
	COC	100	1 % v/v	C						
4	AUTHORITY MTZ	45	8 oz/a	A		100	100	100	5.0	100
	RAGE D-TECH	4.06	12 oz/a	A						
	BASIS	75	0.5 oz/a	A						
	COC	100	1 % v/v	A						
	AMMONIUM SULFATE	100	2.5 % v/v	A						
	ROUNDUP POWERMAX	5.5	32 oz/a	B						
	RAGE D-TECH	4.06	12 oz/a	B						
	DUAL II MAGNUM	7.64	1 pt/a	B						
	AATREX	4	1 pt/a	B						
	CADET	109	0.5 oz/a	C						
	AATREX	4	2 pt/a	C						
	ROUNDUP POWERMAX	5.5	32 oz/a	C						
	COC	100	1 % v/v	C						
5	AUTHORITY MTZ	45	8 oz/a	A		87	100	90	5.0	100
	RAGE D-TECH	4.06	12 oz/a	A						
	RESOLVE SG	25	0.5 oz/a	A						
	Rimsulfuron	25	0.5 oz/a	A						
	Isoxadifen-Ethyl	50	0.125 oz/a	A						

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBEL	POLPY	ERICA	SETFA
Pest Scientific Name	Ambrosia artem>	Persicaria pen>	Conyza canad>	Setaria faberi
Pest Name	Common ragweed	Pennsylvania s>	Canada horsewe>	Giant foxtail
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	6/28/11
Rating Type	CONTRO	CONTRO	CONTRO	PHYNEC
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	199 27	199 27	199 27	207 7
Trt-Eval Interval	27 DA-B	27 DA-B	27 DA-B	7 DA-C
Plant-Eval Interval	29 DP-1	29 DP-1	29 DP-1	37 DP-1
Days After Emergence	19 DE-1	19 DE-1	19 DE-1	27 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Appl Unit	Code	48	49	50	51	52
5	COC	100	1 %	v/v	A					
5	AMMONIUM SULFATE	100	2.5 %	v/v	A					
5	ROUNDUP POWERMAX	5.5	32 oz/a		B					
5	RAGE D-TECH	4.06	12 oz/a		B					
5	DUAL II MAGNUM	7.64	1 pt/a		B					
5	AATREX	4	1 pt/a		B					
5	CADET	109	0.5 oz/a		C					
5	AATREX	4	2 pt/a		C					
5	ROUNDUP POWERMAX	5.5	32 oz/a		C					
5	COC	100	1 %	v/v	C					
6	AUTHORITY MTZ	45	8 oz/a		A	80	100	70	5.0	100
6	RAGE D-TECH	4.06	12 oz/a		A					
6	EXPRESS SG	50	0.1 oz/a		A					
6	COC	100	1 %	v/v	A					
6	AMMONIUM SULFATE	100	2.5 %	v/v	A					
6	ROUNDUP POWERMAX	5.5	32 oz/a		B					
6	RAGE D-TECH	4.06	12 oz/a		B					
6	DUAL II MAGNUM	7.64	1 pt/a		B					
6	AATREX	4	1 pt/a		B					
6	CADET	109	0.5 oz/a		C					
6	AATREX	4	2 pt/a		C					
6	ROUNDUP POWERMAX	5.5	32 oz/a		C					
6	COC	100	1 %	v/v	C					
7	AUTUMN	10	0.3 oz/a		A	90	100	77	5.0	100
7	RAGE D-TECH	4.06	12 oz/a		A					
7	COC	100	1 %	v/v	A					
7	ROUNDUP POWERMAX	5.5	32 oz/a		B					
7	RAGE D-TECH	4.06	12 oz/a		B					
7	DUAL II MAGNUM	7.64	1 pt/a		B					
7	AATREX	4	1 pt/a		B					
7	CADET	109	0.5 oz/a		C					
7	AATREX	4	2 pt/a		C					
7	ROUNDUP POWERMAX	5.5	32 oz/a		C					
7	COC	100	1 %	v/v	C					
8	SIMAZINE	4	2 qt/a		A	93	100	93	5.0	100
8	RAGE D-TECH	4.06	12 oz/a		A					
8	COC	100	1 %	v/v	A					
8	AUTHORITY MTZ	45	5.5 oz/a		B					
8	DUAL MAGNUM	7.62	16 oz/a		B					
8	ROUNDUP POWERMAX	5.5	32 oz/a		B					
8	CADET	109	0.5 oz/a		C					
8	AATREX	4	2 pt/a		C					
8	ROUNDUP POWERMAX	5.5	32 oz/a		C					
8	COC	100	1 %	v/v	C					
LSD (P=.05)						25.1	0.0	18.1	0.00	0.0
Standard Deviation						14.2	0.0	10.3	0.00	0.0
CV						18.96	0.0	15.19	0.0	0.0
Bartlett's X2						5.048	0.0	1.596	0.0	0.0
P(Bartlett's X2)						0.41	.	0.902	.	.
Replicate F						1.721	0.000	0.476	0.000	0.000
Replicate Prob(F)						0.2173	1.0000	0.6319	1.0000	1.0000



# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBEL	POLPY	ERICA	SETFA
Pest Scientific Name	Ambrosia artem>	Persicaria pen>	Conyza canad>	Setaria faberi
Pest Name	Common ragweed	Pennsylvania s>	Canada horsewe>	Giant foxtail
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	6/28/11
Rating Type	CONTRO	CONTRO	CONTRO	PHYNEC
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	199 27	199 27	199 27	207 7
Trt-Eval Interval	27 DA-B	27 DA-B	27 DA-B	7 DA-C
Plant-Eval Interval	29 DP-1	29 DP-1	29 DP-1	37 DP-1
Days After Emergence	19 DE-1	19 DE-1	19 DE-1	27 DE-1
Number of Decimals	0	0	0	0
Trt Treatment	Form	Rate	Appl	
No. Name	Conc Rate	Unit	Code	
				48
				49
				50
				51
				52
Treatment F	15.074	0.000	29.329	0.000
Treatment Prob(F)	0.0001	1.0000	0.0001	1.0000

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ECHCG	ERICA	AMBTR	AMBEL	POLPY
Pest Scientific Name	Echinochloa cr>	Conyza canaden>	Ambrosia trifi>	Ambrosia artem>	Persicaria pen>
Pest Name	Common barnyar>	Canada horsewe>	Giant ragweed	Common ragweed	Pennsylvania s>
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	6/28/11	6/28/11	6/28/11	6/28/11	6/28/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	207 7	207 7	207 7	207 7	207 7
Trt-Eval Interval	7 DA-C	7 DA-C	7 DA-C	7 DA-C	7 DA-C
Plant-Eval Interval	37 DP-1	37 DP-1	37 DP-1	37 DP-1	37 DP-1
Days After Emergence	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate Rate	Appl Unit	Code	53	54	55	56	57
1	UNTREATED					70	20	73	73	100
2	AUTHORITY MTZ	45	14 oz/a	A		100	80	95	97	100
2	RAGE D-TECH	4.06	12 oz/a	A						
2	COC	100	1 % v/v	A						
2	AMMONIUM SULFATE	100	2.5 % v/v	A						
2	ROUNDUP POWERMAX	5.5	32 oz/a	B						
2	F9310-6	2	9 oz/a	B						
2	AATREX	4	1.5 qt/a	B						
2	AMMONIUM SULFATE	100	2.5 % v/v	B						
2	CADET	109	0.5 oz/a	C						
2	AATREX	4	2 pt/a	C						
2	ROUNDUP POWERMAX	5.5	32 oz/a	C						
2	COC	100	1 % v/v	C						
3	AUTHORITY MTZ	45	8 oz/a	A		100	74	97	91	100
3	RAGE D-TECH	4.06	12 oz/a	A						
3	COC	100	1 % v/v	A						
3	AMMONIUM SULFATE	100	2.5 % v/v	A						
3	ROUNDUP POWERMAX	5.5	32 oz/a	B						
3	RAGE D-TECH	4.06	12 oz/a	B						
3	DUAL II MAGNUM	7.64	1 pt/a	B						
3	AATREX	4	1 pt/a	B						
3	CADET	109	0.5 oz/a	C						
3	AATREX	4	2 pt/a	C						
3	ROUNDUP POWERMAX	5.5	32 oz/a	C						
3	COC	100	1 % v/v	C						
4	AUTHORITY MTZ	45	8 oz/a	A		100	99	100	100	100
4	RAGE D-TECH	4.06	12 oz/a	A						
4	BASIS	75	0.5 oz/a	A						
4	COC	100	1 % v/v	A						
4	AMMONIUM SULFATE	100	2.5 % v/v	A						
4	ROUNDUP POWERMAX	5.5	32 oz/a	B						
4	RAGE D-TECH	4.06	12 oz/a	B						
4	DUAL II MAGNUM	7.64	1 pt/a	B						
4	AATREX	4	1 pt/a	B						
4	CADET	109	0.5 oz/a	C						
4	AATREX	4	2 pt/a	C						
4	ROUNDUP POWERMAX	5.5	32 oz/a	C						
4	COC	100	1 % v/v	C						
5	AUTHORITY MTZ	45	8 oz/a	A		100	55	100	99	100
5	RAGE D-TECH	4.06	12 oz/a	A						
5	RESOLVE SG	25	0.5 oz/a	A						
5	Rimsulfuron	25	0.5 oz/a	A						
5	Isoxadifen-Ethyl	50	0.125 oz/a	A						

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ECHCG	ERICA	AMBTR	AMBEL	POLPY
Pest Scientific Name	Echinochloa cr>	Conyza canad>	Ambrosia trifi>	Ambrosia artem>	Persicaria pen>
Pest Name	Common barnyar>	Canada horsewe>	Giant ragweed	Common ragweed	Pennsylvania s>
Crop Code					
BCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	6/28/11	6/28/11	6/28/11	6/28/11	6/28/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	207 7	207 7	207 7	207 7	207 7
Trt-Eval Interval	7 DA-C	7 DA-C	7 DA-C	7 DA-C	7 DA-C
Plant-Eval Interval	37 DP-1	37 DP-1	37 DP-1	37 DP-1	37 DP-1
Days After Emergence	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Appl Unit	Code	53	54	55	56	57
5	COC	100	1	% v/v	A					
5	AMMONIUM SULFATE	100	2.5	% v/v	A					
5	ROUNDUP POWERMAX	5.5	32	oz/a	B					
5	RAGE D-TECH	4.06	12	oz/a	B					
5	DUAL II MAGNUM	7.64	1	pt/a	B					
5	AATREX	4	1	pt/a	B					
5	CADET	109	0.5	oz/a	C					
5	AATREX	4	2	pt/a	C					
5	ROUNDUP POWERMAX	5.5	32	oz/a	C					
5	COC	100	1	% v/v	C					
6	AUTHORITY MTZ	45	8	oz/a	A	100	85	100	100	100
6	RAGE D-TECH	4.06	12	oz/a	A					
6	EXPRESS SG	50	0.1	oz/a	A					
6	COC	100	1	% v/v	A					
6	AMMONIUM SULFATE	100	2.5	% v/v	A					
6	ROUNDUP POWERMAX	5.5	32	oz/a	B					
6	RAGE D-TECH	4.06	12	oz/a	B					
6	DUAL II MAGNUM	7.64	1	pt/a	B					
6	AATREX	4	1	pt/a	B					
6	CADET	109	0.5	oz/a	C					
6	AATREX	4	2	pt/a	C					
6	ROUNDUP POWERMAX	5.5	32	oz/a	C					
6	COC	100	1	% v/v	C					
7	AUTUMN	10	0.3	oz/a	A	100	84	100	98	100
7	RAGE D-TECH	4.06	12	oz/a	A					
7	COC	100	1	% v/v	A					
7	ROUNDUP POWERMAX	5.5	32	oz/a	B					
7	RAGE D-TECH	4.06	12	oz/a	B					
7	DUAL II MAGNUM	7.64	1	pt/a	B					
7	AATREX	4	1	pt/a	B					
7	CADET	109	0.5	oz/a	C					
7	AATREX	4	2	pt/a	C					
7	ROUNDUP POWERMAX	5.5	32	oz/a	C					
7	COC	100	1	% v/v	C					
8	SIMAZINE	4	2	qt/a	A	100	98	88	100	100
8	RAGE D-TECH	4.06	12	oz/a	A					
8	COC	100	1	% v/v	A					
8	AUTHORITY MTZ	45	5.5	oz/a	B					
8	DUAL MAGNUM	7.62	16	oz/a	B					
8	ROUNDUP POWERMAX	5.5	32	oz/a	B					
8	CADET	109	0.5	oz/a	C					
8	AATREX	4	2	pt/a	C					
8	ROUNDUP POWERMAX	5.5	32	oz/a	C					
8	COC	100	1	% v/v	C					
LSD (P=.05)			0.0			0.0	28.0	10.6	7.9	0.0
Standard Deviation			0.0			0.0	15.9	6.0	4.5	0.0
CV			0.0			0.0	21.34	6.4	4.72	0.0
Bartlett's X2			0.0			0.0	25.316	2.308	3.238	0.0
P(Bartlett's X2)			.			.	0.001*	0.511	0.519	.
Replicate F			0.000			0.000	2.642	0.381	0.466	0.000
Replicate Prob(F)			1.0000			1.0000	0.1090	0.6903	0.6375	1.0000

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ECHCG	ERICA	AMBTR	AMBEL	POLPY
Pest Scientific Name	Echinochloa cr>	Conyza canaden>	Ambrosia trifi>	Ambrosia artem>	Persicaria pen>
Pest Name	Common barnyar>	Canada horsewe>	Giant ragweed	Common ragweed	Pennsylvania s>
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	6/28/11	6/28/11	6/28/11	6/28/11	6/28/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	207 7	207 7	207 7	207 7	207 7
Trt-Eval Interval	7 DA-C	7 DA-C	7 DA-C	7 DA-C	7 DA-C
Plant-Eval Interval	37 DP-1	37 DP-1	37 DP-1	37 DP-1	37 DP-1
Days After Emergence	27 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1
Number of Decimals	0	0	0	0	0
Trt Treatment	Form	Rate	Appl		
No. Name	Conc Rate	Unit	Code	53	54
Treatment F	0.000			8.086	7.172
Treatment Prob(F)	1.0000			0.0007	0.0012
				12.592	0.0001
				0.000	1.0000

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHCG	AMBTR	AMBEL	POLPY
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Ambrosia artem>	Persicaria pen>
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	Common ragweed	Pennsylvania s>
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	7/11/11	7/11/11	7/11/11	7/11/11	7/11/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	220 20	220 20	220 20	220 20	220 20
Trt-Eval Interval	20 DA-C	20 DA-C	20 DA-C	20 DA-C	20 DA-C
Plant-Eval Interval	50 DP-1	50 DP-1	50 DP-1	50 DP-1	50 DP-1
Days After Emergence	40 DE-1	40 DE-1	40 DE-1	40 DE-1	40 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate Rate	Appl Unit	Code	58	59	60	61	62
1	UNTREATED					90	50	47	50	100
2	AUTHORITY MTZ	45	14 oz/a	A		97	100	96	100	100
	RAGE D-TECH	4.06	12 oz/a	A						
	COC	100	1 % v/v	A						
	AMMONIUM SULFATE	100	2.5 % v/v	A						
	ROUNDUP POWERMAX	5.5	32 oz/a	B						
	F9310-6	2	9 oz/a	B						
	AATREX	4	1.5 qt/a	B						
	AMMONIUM SULFATE	100	2.5 % v/v	B						
	CADET	109	0.5 oz/a	C						
	AATREX	4	2 pt/a	C						
	ROUNDUP POWERMAX	5.5	32 oz/a	C						
	COC	100	1 % v/v	C						
3	AUTHORITY MTZ	45	8 oz/a	A		93	100	93	100	100
	RAGE D-TECH	4.06	12 oz/a	A						
	COC	100	1 % v/v	A						
	AMMONIUM SULFATE	100	2.5 % v/v	A						
	ROUNDUP POWERMAX	5.5	32 oz/a	B						
	RAGE D-TECH	4.06	12 oz/a	B						
	DUAL II MAGNUM	7.64	1 pt/a	B						
	AATREX	4	1 pt/a	B						
	CADET	109	0.5 oz/a	C						
	AATREX	4	2 pt/a	C						
	ROUNDUP POWERMAX	5.5	32 oz/a	C						
	COC	100	1 % v/v	C						
4	AUTHORITY MTZ	45	8 oz/a	A		94	100	99	100	100
	RAGE D-TECH	4.06	12 oz/a	A						
	BASIS	75	0.5 oz/a	A						
	COC	100	1 % v/v	A						
	AMMONIUM SULFATE	100	2.5 % v/v	A						
	ROUNDUP POWERMAX	5.5	32 oz/a	B						
	RAGE D-TECH	4.06	12 oz/a	B						
	DUAL II MAGNUM	7.64	1 pt/a	B						
	AATREX	4	1 pt/a	B						
	CADET	109	0.5 oz/a	C						
	AATREX	4	2 pt/a	C						
	ROUNDUP POWERMAX	5.5	32 oz/a	C						
	COC	100	1 % v/v	C						
5	AUTHORITY MTZ	45	8 oz/a	A		98	100	99	99	100
	RAGE D-TECH	4.06	12 oz/a	A						
	RESOLVE SG	25	0.5 oz/a	A						
	Rimsulfuron	25	0.5 oz/a	A						
	Isoxadifen-Ethyl	50	0.125 oz/a	A						

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHCG	AMBTR	AMBEL	POLPY
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Ambrosia artem>	Persicaria pen>
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	Common ragweed	Pennsylvania s>
Crop Code					
BCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	7/11/11	7/11/11	7/11/11	7/11/11	7/11/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	220 20	220 20	220 20	220 20	220 20
Trt-Eval Interval	20 DA-C	20 DA-C	20 DA-C	20 DA-C	20 DA-C
Plant-Eval Interval	50 DP-1	50 DP-1	50 DP-1	50 DP-1	50 DP-1
Days After Emergence	40 DE-1	40 DE-1	40 DE-1	40 DE-1	40 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Rate	Appl Unit	Code	58	59	60	61	62
5	COC	100	1 %	v/v	A					
5	AMMONIUM SULFATE	100	2.5 %	v/v	A					
5	ROUNDUP POWERMAX	5.5	32 oz/a		B					
5	RAGE D-TECH	4.06	12 oz/a		B					
5	DUAL II MAGNUM	7.64	1 pt/a		B					
5	AATREX	4	1 pt/a		B					
5	CADET	109	0.5 oz/a		C					
5	AATREX	4	2 pt/a		C					
5	ROUNDUP POWERMAX	5.5	32 oz/a		C					
5	COC	100	1 %	v/v	C					
6	AUTHORITY MTZ	45	8 oz/a		A	96	100	100	100	100
6	RAGE D-TECH	4.06	12 oz/a		A					
6	EXPRESS SG	50	0.1 oz/a		A					
6	COC	100	1 %	v/v	A					
6	AMMONIUM SULFATE	100	2.5 %	v/v	A					
6	ROUNDUP POWERMAX	5.5	32 oz/a		B					
6	RAGE D-TECH	4.06	12 oz/a		B					
6	DUAL II MAGNUM	7.64	1 pt/a		B					
6	AATREX	4	1 pt/a		B					
6	CADET	109	0.5 oz/a		C					
6	AATREX	4	2 pt/a		C					
6	ROUNDUP POWERMAX	5.5	32 oz/a		C					
6	COC	100	1 %	v/v	C					
7	AUTUMN	10	0.3 oz/a		A	93	100	97	100	100
7	RAGE D-TECH	4.06	12 oz/a		A					
7	COC	100	1 %	v/v	A					
7	ROUNDUP POWERMAX	5.5	32 oz/a		B					
7	RAGE D-TECH	4.06	12 oz/a		B					
7	DUAL II MAGNUM	7.64	1 pt/a		B					
7	AATREX	4	1 pt/a		B					
7	CADET	109	0.5 oz/a		C					
7	AATREX	4	2 pt/a		C					
7	ROUNDUP POWERMAX	5.5	32 oz/a		C					
7	COC	100	1 %	v/v	C					
8	SIMAZINE	4	2 qt/a		A	96	100	100	100	100
8	RAGE D-TECH	4.06	12 oz/a		A					
8	COC	100	1 %	v/v	A					
8	AUTHORITY MTZ	45	5.5 oz/a		B					
8	DUAL MAGNUM	7.62	16 oz/a		B					
8	ROUNDUP POWERMAX	5.5	32 oz/a		B					
8	CADET	109	0.5 oz/a		C					
8	AATREX	4	2 pt/a		C					
8	ROUNDUP POWERMAX	5.5	32 oz/a		C					
8	COC	100	1 %	v/v	C					
LSD (P=.05)						8.5	0.0	17.3	6.4	0.0
Standard Deviation						4.8	0.0	9.8	3.6	0.0
CV						5.07	0.0	10.75	3.89	0.0
Bartlett's X2						0.509	0.0	12.068	0.0	0.0
P(Bartlett's X2)						0.998	.	0.034*	.	.
Replicate F						1.320	0.000	0.039	1.159	0.000
Replicate Prob(F)						0.3006	1.0000	0.9616	0.3441	1.0000

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHCG	AMBTR	AMBEL	POLPY
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Ambrosia artem>	Persicaria pen>
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	Common ragweed	Pennsylvania s>
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	7/11/11	7/11/11	7/11/11	7/11/11	7/11/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	220 20	220 20	220 20	220 20	220 20
Trt-Eval Interval	20 DA-C	20 DA-C	20 DA-C	20 DA-C	20 DA-C
Plant-Eval Interval	50 DP-1	50 DP-1	50 DP-1	50 DP-1	50 DP-1
Days After Emergence	40 DE-1	40 DE-1	40 DE-1	40 DE-1	40 DE-1
Number of Decimals	0	0	0	0	0
Trt Treatment	Form	Rate	Appl		
No. Name	Conc Rate	Unit	Code	58	59
Treatment F				0.861	0.000
Treatment Prob(F)				0.5603	1.0000
				10.307	0.0002
				70.448	0.0001
				0.0000	1.0000

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed
Pest Code	ERICA
Pest Scientific Name	Conyza canadens>
Pest Name	Canada horsewe>
Crop Code	
BBCH Scale	
Crop Scientific Name	
Crop Name	
Rating Date	7/11/11
Rating Type	CONTRO
Rating Unit	%
Number of Subsamples	1
Days After First/Last Applic.	220 20
Trt-Eval Interval	20 DA-C
Plant-Eval Interval	50 DP-1
Days After Emergence	40 DE-1
Number of Decimals	0

Trt No.	Treatment Name	Form Conc	Rate Rate	Appl Unit	Code	
						63

1	UNTREATED					20
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2	AUTHORITY MTZ	45	14 oz/a	A		78
2	RAGE D-TECH	4.06	12 oz/a	A		
2	COC	100	1 % v/v	A		
2	AMMONIUM SULFATE	100	2.5 % v/v	A		
2	ROUNDUP POWERMAX	5.5	32 oz/a	B		
2	F9310-6	2	9 oz/a	B		
2	AATREX	4	1.5 qt/a	B		
2	AMMONIUM SULFATE	100	2.5 % v/v	B		
2	CADET	109	0.5 oz/a	C		
2	AATREX	4	2 pt/a	C		
2	ROUNDUP POWERMAX	5.5	32 oz/a	C		
2	COC	100	1 % v/v	C		

3	AUTHORITY MTZ	45	8 oz/a	A		73
3	RAGE D-TECH	4.06	12 oz/a	A		
3	COC	100	1 % v/v	A		
3	AMMONIUM SULFATE	100	2.5 % v/v	A		
3	ROUNDUP POWERMAX	5.5	32 oz/a	B		
3	RAGE D-TECH	4.06	12 oz/a	B		
3	DUAL II MAGNUM	7.64	1 pt/a	B		
3	AATREX	4	1 pt/a	B		
3	CADET	109	0.5 oz/a	C		
3	AATREX	4	2 pt/a	C		
3	ROUNDUP POWERMAX	5.5	32 oz/a	C		
3	COC	100	1 % v/v	C		

4	AUTHORITY MTZ	45	8 oz/a	A		93
4	RAGE D-TECH	4.06	12 oz/a	A		
4	BASIS	75	0.5 oz/a	A		
4	COC	100	1 % v/v	A		
4	AMMONIUM SULFATE	100	2.5 % v/v	A		
4	ROUNDUP POWERMAX	5.5	32 oz/a	B		
4	RAGE D-TECH	4.06	12 oz/a	B		
4	DUAL II MAGNUM	7.64	1 pt/a	B		
4	AATREX	4	1 pt/a	B		
4	CADET	109	0.5 oz/a	C		
4	AATREX	4	2 pt/a	C		
4	ROUNDUP POWERMAX	5.5	32 oz/a	C		
4	COC	100	1 % v/v	C		

5	AUTHORITY MTZ	45	8 oz/a	A		96
5	RAGE D-TECH	4.06	12 oz/a	A		
5	RESOLVE SG	25	0.5 oz/a	A		
5	Rimsulfuron	25	0.5 oz/a	A		
5	Isoxadifen-Ethyl	50	0.125 oz/a	A		



# Ohio State University Horticulture and Crop Science

Pest Type W Weed  
 Pest Code ERICA  
 Pest Scientific Name Conyza canadens  
 Pest Name Canada horsewe  
 Crop Code  
 BBCH Scale  
 Crop Scientific Name  
 Crop Name  
 Rating Date 7/11/11  
 Rating Type CONTRO  
 Rating Unit %  
 Number of Subsamples 1  
 Days After First/Last Applic. 220 20  
 Trt-Eval Interval 20 DA-C  
 Plant-Eval Interval 50 DP-1  
 Days After Emergence 40 DE-1  
 Number of Decimals 0

Trt No.	Treatment Name	Form Conc	Rate	Unit	Appl Code	
5	COC	100	1	% v/v	A	
5	AMMONIUM SULFATE	100	2.5	% v/v	A	
5	ROUNDUP POWERMAX	5.5	32	oz/a	B	
5	RAGE D-TECH	4.06	12	oz/a	B	
5	DUAL II MAGNUM	7.64	1	pt/a	B	
5	AATREX	4	1	pt/a	B	
5	CADET	109	0.5	oz/a	C	
5	AATREX	4	2	pt/a	C	
5	ROUNDUP POWERMAX	5.5	32	oz/a	C	
5	COC	100	1	% v/v	C	
6	AUTHORITY MTZ	45	8	oz/a	A	86
6	RAGE D-TECH	4.06	12	oz/a	A	
6	EXPRESS SG	50	0.1	oz/a	A	
6	COC	100	1	% v/v	A	
6	AMMONIUM SULFATE	100	2.5	% v/v	A	
6	ROUNDUP POWERMAX	5.5	32	oz/a	B	
6	RAGE D-TECH	4.06	12	oz/a	B	
6	DUAL II MAGNUM	7.64	1	pt/a	B	
6	AATREX	4	1	pt/a	B	
6	CADET	109	0.5	oz/a	C	
6	AATREX	4	2	pt/a	C	
6	ROUNDUP POWERMAX	5.5	32	oz/a	C	
6	COC	100	1	% v/v	C	
7	AUTUMN	10	0.3	oz/a	A	83
7	RAGE D-TECH	4.06	12	oz/a	A	
7	COC	100	1	% v/v	A	
7	ROUNDUP POWERMAX	5.5	32	oz/a	B	
7	RAGE D-TECH	4.06	12	oz/a	B	
7	DUAL II MAGNUM	7.64	1	pt/a	B	
7	AATREX	4	1	pt/a	B	
7	CADET	109	0.5	oz/a	C	
7	AATREX	4	2	pt/a	C	
7	ROUNDUP POWERMAX	5.5	32	oz/a	C	
7	COC	100	1	% v/v	C	
8	SIMAZINE	4	2	qt/a	A	97
8	RAGE D-TECH	4.06	12	oz/a	A	
8	COC	100	1	% v/v	A	
8	AUTHORITY MTZ	45	5.5	oz/a	B	
8	DUAL MAGNUM	7.62	16	oz/a	B	
8	ROUNDUP POWERMAX	5.5	32	oz/a	B	
8	CADET	109	0.5	oz/a	C	
8	AATREX	4	2	pt/a	C	
8	ROUNDUP POWERMAX	5.5	32	oz/a	C	
8	COC	100	1	% v/v	C	

LSD (P=.05) 20.4  
 Standard Deviation 11.6  
 CV 14.76  
 Bartlett's X2 3.035  
 P(Bartlett's X2) 0.804  
 Replicate F 1.360  
 Replicate Prob(F) 0.2908

# Ohio State University Horticulture and Crop Science

Pest Type	W Weed
Pest Code	ERICA
Pest Scientific Name	Conyza canadens>
Pest Name	Canada horsewe>
Crop Code	
BBCH Scale	
Crop Scientific Name	
Crop Name	
Rating Date	7/11/11
Rating Type	CONTRO
Rating Unit	%
Number of Subsamples	1
Days After First/Last Applic.	220 20
Trt-Eval Interval	20 DA-C
Plant-Eval Interval	50 DP-1
Days After Emergence	40 DE-1
Number of Decimals	0

Trt	Treatment	Form	Rate	Appl	
No.	Name	Conc	Rate	Unit	Code
	Treatment F				14.006
	Treatment Prob(F)				0.0001

# Ohio State University Horticulture and Crop Science

## 2010/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/

Title No. 2:

Trial ID: 11FALLCORN1  
Location: WESTERN BRANCH F-9 W  
Project ID:

Protocol ID: 11FALLCORN1  
Study Director:  
Investigator: Dr. Mark M. Loux  
Sponsor Contact:

Pest Type

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

Pest Code

STEME, *Stellaria media*, = US  
LAMPU, *Lamium purpureum*, = US  
ERICA, *Conyza canadensis*, = US  
CARPE, *Cardamine pensylvanica*, = US  
VERAR, *Veronica arvensis*, = US  
CAPBP, *Capsella bursa-pastoris*, = US  
AMBTR, *Ambrosia trifida*, = US  
AMBEL, *Ambrosia artemisiifolia*, = US  
POLPY, *Persicaria pensylvanica*, = US  
CHEAL, *Chenopodium album*, = US  
SETFA, *Setaria faberi*, = US  
ECHCG, *Echinochloa crus-galli*, = US

Crop Code

ZEAMX, BCOR, *Zea mays*, = US

Rating Type

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

Rating Unit

% = percent

Plant-Eval Interval

-39 DP-1 = 1 5/22/11  
-23 DP-1 = 1 5/22/11  
-6 DP-1 = 1 5/22/11  
1 DP-1 = 1 5/22/11  
10 DP-1 = 1 5/22/11  
18 DP-1 = 1 5/22/11  
29 DP-1 = 1 5/22/11  
37 DP-1 = 1 5/22/11  
50 DP-1 = 1 5/22/11

# Ohio State University Horticulture and Crop Science

## 2010/CORN/AUTHORITY/SULFENTRAZONE/FALL PROGRAMS/

Title No. 2:  
 Trial ID: 11FALLCORN1      Protocol ID: 11FALLCORN1  
 Location: WESTERN BRANCH F-9 W      Study Director:  
 Project ID:      Investigator: Dr. Mark M. Loux  
                                  Sponsor Contact:

### 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 °:** 39.85886 N  
**State/Prov.:** Ohio      **Longitude of LL Corner °:** -83.67363 W  
**Postal Code:** 45368  
**Country:** USA

### Crop Description

**Crop 1:** ZEAMX Zea mays      Corn  
**Variety:** Dekalb DKC 61-21  
**BBCH Scale:** BCOR      **Description:** RR  
**Planting Method:** SEEDED seeded      **Planting Date:** 5/22/11  
**Depth, Unit:** 2 IN      **Rate, Unit:** 34237 S/A  
**Row Spacing, Unit:** 30 IN  
**Seed Bed:** MEDIUM medium      **Soil Temperature, Unit:** 71 F  
**Soil Moisture:** SLIWET slightly wet      **Emergence Date:** 6/1/11

### Pest Description

- Pest 1 Type:** W      **Code:** LAMPU *Lamium purpureum*  
**Common Name:** Purple deadnettel
- Pest 2 Type:** W      **Code:** STEME *Stellaria media*  
**Common Name:** Common chickweed
- Pest 3 Type:** W      **Code:** CAPBP *Capsella bursa-pastoris*  
**Common Name:** Shepherd's purse
- Pest 4 Type:** W      **Code:** ERICA *Conyza canadensis*  
**Common Name:** Canada horseweed
- Pest 5 Type:** W      **Code:** AMBEL *Ambrosia artemisiifolia*  
**Common Name:** Common ragweed
- Pest 6 Type:** W      **Code:** SETFA *Setaria faberi*  
**Common Name:** Giant foxtail
- Pest 7 Type:** W      **Code:** POLPY *Persicaria pensylvanica*  
**Common Name:** Pennsylvania smartweed
- Pest 8 Type:** W      **Code:** VERAG *Veronica agrestis*  
**Common Name:** Field speedwell
- Pest 9 Type:** W      **Code:** CHEAL *Chenopodium album*  
**Common Name:** Common lambsquarters
- Pest10 Type:** W      **Code:** AMBTR *Ambrosia trifida*  
**Common Name:** Giant ragweed
- Pest11 Type:** W      **Code:** AMARE *Amaranthus retroflexus*  
**Common Name:** Redroot pigweed
- Pest12 Type:** W      **Code:** ABUTH *Abutilon theophrasti*  
**Common Name:** Velvetleaf
- Pest13 Type:** W      **Code:** SIDSP *Sida spinosa*  
**Common Name:** Prickly sida
- Pest14 Type:** W      **Code:** ECHCG *Echinochloa crus-galli*  
**Common Name:** Common barnyardgrass