

Ohio State University
Horticulture and Crop Science

Weed Control Programs with Instigate

Title No. 2:
 Trial ID: 12PRPOC1 Protocol ID: 12PRPOC1
 Location: Western Branch F-8 E Study Director: Anthony F. Dobbels
 Project ID: USA-12-004 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

Trial Location

City: South Charleston Latitude of LL Corner °: 39.86014 N
 State/Prov.: Ohio Longitude of LL Corner °: 83.67025 W
 Postal Code: 45368
 Country: USA

Crop Description

Crop 1: ZEAMX Zea mays Corn
 Variety: Seed Consultants SCS 11HQ38 Description: RR/LL
 BBCH Scale: BCOR Planting Date: Apr-19-2012
 Planting Method: SEEDED seeded Rate, Unit: 32097 S/A
 Depth, Unit: 2 IN
 Row Spacing, Unit: 30 IN
 Seed Bed: MEDIUM medium Soil Temperature, Unit: 56 F
 Soil Moisture: GOOD good Emergence Date: May-4-2012

Pest Description

Pest 1 Type: W Code: AMBTR Ambrosia trifida
 Common Name: Giant ragweed
 Pest 2 Type: W Code: SETFA Setaria faberi
 Common Name: Giant foxtail
 Pest 3 Type: W Code: AMBEL Ambrosia artemisiifolia
 Common Name: Common ragweed
 Pest 4 Type: W Code: ECHCG Echinochloa crus-galli
 Common Name: Common barnyardgrass
 Pest 5 Type: W Code: POLPY Persicaria pensylvanica
 Common Name: Pennsylvania smartweed
 Pest 6 Type: W Code: CHEAL Chenopodium album
 Common Name: Common lambsquarters
 Pest 7 Type: W Code: AMARE Amaranthus retroflexus
 Common Name: Redroot pigweed

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 L Randomized Complete Block (RCB)
 Untreated Arrangement: INCLUDED single control randomized in each block

Soil Description

Description Name: F-7 East
 % OM: 1.8 Texture: SIL silt loam
 pH: 5.7 Soil Name: Crosby
 CEC: 16.2 Fert. Level: G good
 Soil Drainage: G good

Application Description

	A	B
Application Date:	Apr-19-2012	May-23-2012
Time of Day:	1:30 P.M.	9:00AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Application Placement:	BROSOL	BROFOL
Air Temperature, Unit:	76 F	69 F
% Relative Humidity:	48	67
Wind Velocity, Unit:	1 MPH	2 MPH
Wind Direction:	N	NNE
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	60 F	67 F
Soil Moisture:	GOOD	DRY
% Cloud Cover:	7	85
Next Rain Occurred On:	Apr-21-2012	May-31-2012

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Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		15 100
Height, Unit:		10 IN
Height Minimum, Maximum:		10 10

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:		14 100
Height, Unit:		3 IN
Height Minimum, Maximum:		2 4
Density, Unit:		22.6 M2
Pest 2 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:		12 100
Height, Unit:		1.5 IN
Height Minimum, Maximum:		1 2
Density, Unit:		413 M2
Pest 3 Code, Type, Scale:	AMBEL W	AMBEL W
Stage Majority, Percent:		12 100
Height, Unit:		1.5 IN
Height Minimum, Maximum:		1 2
Density, Unit:		4 M2
Pest 4 Code, Type, Scale:	ECHCG W	ECHCG W
Stage Majority, Percent:		13 100
Height, Unit:		3 IN
Height Minimum, Maximum:		2 4
Pest 5 Code, Type, Scale:	POLPY W	POLPY W
Density, Unit:		5.2 M2
Pest 6 Code, Type, Scale:	CHEAL W	CHEAL W
Density, Unit:		10.4 M2
Pest 7 Code, Type, Scale:	AMARE W	AMARE W
Density, Unit:		2.6 M2

Application Equipment

	A	B
Appl. Equipment:	6 foot boom	6 foot boom
Equipment Type:	SPRBAC	SPRBAC
Operation Pressure, Unit:	46 PSI	46 PSI
Nozzle Type:	AI XR	AI XR
Nozzle Size:	110015	110015
Nozzle Spacing, Unit:	18 IN	18 IN
Boom Length, Unit:	6 FT	6 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 GPA	15 GPA
Mix Size, Unit:	1 Liters	1 Liters
Propellant:	CO2	CO2

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Trial ID: 12PRPOC1
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Project ID: USA-12-004Protocol ID: 12PRPOC1
Study Director: Anthony F. Dobbels
Investigator: Dr. Mark M. Loux
Sponsor Contact: Marsha Martin, DuPont

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	POLPY	ABUTH
Pest Scientific Name	Setaria Ambrosia trifida	Persicaria pennsylvanica	Abutilon theophrasti	
Pest Name	Giant foxtail	Giant ragweed	Pennsylvania s>	velvetleaf
Crop Code	ZEAMX			
BBCH Scale	BCOR			
Crop Scientific Name	Zea mays			
Crop Name	Corn			
Rating Date	May-10-2012	May-10-2012	May-10-2012	May-10-2012
Rating Type	PHYTO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	21 21	21 21	21 21	21 21
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A
Plant-Eval Interval	21 DP-1	21 DP-1	21 DP-1	21 DP-1
Days After Emergence	6 DE-1	6 DE-1	6 DE-1	6 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate	Growth Unit	Appl Stage	Code	1	2	3	4	5
1	Rimsulfuron	0.25 oz ai/a		1 oz/a		PRE	A		0 a	80 b	53 c	100 a	100 a
1	Mesotrione	2.5 oz ai/a		5 oz/a		PRE							
1	Atrazine	1 lb ai/a		1 qt/a		PRE							
1	Abundit	1 lb ai/a		32 oz/a		POST	B						
1	N-PAK AMS	2.5 % v/v		1.5 qt/a		POST							
2	Rimsulfuron	0.25 oz ai/a		1 oz/a		PRE	A		0 a	60 c	75 a	100 a	100 a
2	Mesotrione	2.5 oz ai/a		5 oz/a		PRE							
2	Atrazine	1 lb ai/a		1 qt/a		PRE							
2	Rimsulfuron	0.3 oz ai/a		1.2 oz/a		POST	B						
2	Mesotrione	1.25 oz ai/a		2.5 oz/a		POST							
2	Isoxadifen-Ethyl	0.15 oz ai/a		0.3 oz/a		POST							
2	Abundit	1 lb ai/a		32 oz/a		POST							
2	N-PAK AMS	2.5 % v/v		1.5 qt/a		POST							
3	Rimsulfuron	0.25 oz ai/a		1 oz/a		PRE	A		0 a	97 a	73 ab	100 a	100 a
3	Mesotrione	2.5 oz ai/a		5 oz/a		PRE							
3	Cinch ATZ	2 pt/a		2 pt/a		PRE							
3	Abundit	1 lb ai/a		32 oz/a		POST	B						
3	N-PAK AMS	2.5 % v/v		1.5 qt/a		POST							
4	Rimsulfuron	0.25 oz ai/a		1 oz/a		PRE	A		0 a	100 a	75 a	100 a	100 a
4	Mesotrione	2.5 oz ai/a		5 oz/a		PRE							
4	Cinch ATZ	3 pt/a		3 pt/a		PRE							
5	Rimsulfuron	0.25 oz ai/a		1 oz/a		PRE	A		0 a	100 a	82 a	100 a	100 a
5	Mesotrione	2.5 oz ai/a		5 oz/a		PRE							
5	Cinch ATZ	4 pt/a		4 pt/a		PRE							
6	Rimsulfuron	0.25 oz ai/a		1 oz/a		PRE	A		0 a	100 a	73 ab	100 a	100 a
6	Mesotrione	2.5 oz ai/a		5 oz/a		PRE							
6	Dual II Magnum	2 pt/a		2 pt/a		PRE							
6	Rimsulfuron	0.3 oz ai/a		1.2 oz/a		POST	B						
6	Mesotrione	1.25 oz ai/a		2.5 oz/a		POST							
6	Isoxadifen-Ethyl	0.15 oz ai/a		0.3 oz/a		POST							
6	Abundit	1 lb ai/a		32 oz/a		POST							
6	N-PAK AMS	2.5 % v/v		1.5 qt/a		POST							
7	Lumax	3 qt/a		3 qt/a		PRE	A		0 a	100 a	53 c	100 a	100 a
7	Abundit	1 lb ai/a		32 oz/a		POST	B						
7	N-PAK AMS	2.5 % v/v		1.5 qt/a		POST							
8	Corvus	0.115 lb ai/a		5.6 oz/a		PRE	A		0 a	90 ab	78 a	100 a	100 a

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

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Pest Type		W Weed	W Weed	W Weed	W Weed					
Pest Code		SETFA	AMBTR	POLPY	ABUTH					
Pest Scientific Name		Setaria faberi	Ambrosia trifida	Persicaria pensylvanica	Abutilon theophrasti					
Pest Name		Giant foxtail	Giant ragweed	Pennsylvania s>	velvetleaf					
Crop Code		ZEAMX								
BBCH Scale		BCOR								
Crop Scientific Name		Zea mays								
Crop Name		Corn								
Rating Date		May-10-2012	May-10-2012	May-10-2012	May-10-2012					
Rating Type		PHYTO	CONTRO	CONTRO	CONTRO					
Rating Unit		%	%	%	%					
Number of Subsamples		1	1	1	1					
Days After First/Last Applic.		21 21	21 21	21 21	21 21					
Trt-Eval Interval		21 DA-A	21 DA-A	21 DA-A	21 DA-A					
Plant-Eval Interval		21 DP-1	21 DP-1	21 DP-1	21 DP-1					
Days After Emergence		6 DE-1	6 DE-1	6 DE-1	6 DE-1					
Number of Decimals		0	0	0	0					
Trt Treatment	Rate	Other	Other	Growth	Appl					
No. Name	Rate Unit	Rate	Rate Unit	Stage	Code	1	2	3	4	5
8 Atrazine	1.5 lb ai/a	1.5 qt/a		PRE						
8 Abundit	1 lb ai/a	32 oz/a		POST	B					
8 N-PAK AMS	2.5 % v/v	1.5 qt/a		POST						
9 Bicep II Magnum	2.9 lb ai/a	2.1 qt/a		PRE	A	0 a	100 a	57 bc	100 a	100 a
9 Abundit	1 lb ai/a	32 oz/a		POST	B					
9 N-PAK AMS	2.5 % v/v	1.5 qt/a		POST						
10 UTC						0 a	0 d	0 d	0 b	0 b
LSD (P=.05)						0.0	14.6	17.2	0.0	0.0
Standard Deviation						0.0	8.5	10.0	0.0	0.0
CV						0.0	10.28	16.18	0.0	0.0
Replicate F						0.000	1.154	2.012	0.000	0.000
Replicate Prob(F)						1.0000	0.3377	0.1627	1.0000	1.0000
Treatment F						0.000	42.031	17.457	0.000	0.000
Treatment Prob(F)						1.0000	0.0001	0.0001	1.0000	1.0000

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMARE	CHEAL	SETFA	AMBTR
Pest Scientific Name	Amaranthus ret>	Chenopodium al>	Setaria faberi	Ambrosia trifi>
Pest Name	Redroot pigweed	Common lambsqu>	Giant foxtail	Giant ragweed
Crop Code			ZEAMX	
BBCH Scale			BCOR	
Crop Scientific Name			Zea mays	
Crop Name			Corn	
Rating Date	May-10-2012	May-10-2012	May-22-2012	May-22-2012
Rating Type	CONTRO	CONTRO	PHYTO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	21 21	21 21	33 33	33 33
Trt-Eval Interval	21 DA-A	21 DA-A	33 DA-A	33 DA-A
Plant-Eval Interval	21 DP-1	21 DP-1	33 DP-1	33 DP-1
Days After Emergence	6 DE-1	6 DE-1	18 DE-1	18 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Growth Stage	Appl Code	6	7	8	9	10
1	Rimsulfuron	0.25 oz ai/a	1 oz/a		PRE	A	100 a	100 a	0 a	72 b	63 b
1	Mesotrione	2.5 oz ai/a	5 oz/a		PRE						
1	Atrazine	1 lb ai/a	1 qt/a		PRE						
1	Abundit	1 lb ai/a	32 oz/a		POST	B					
1	N-PAK AMS	2.5 % v/v	1.5 qt/a		POST						
2	Rimsulfuron	0.25 oz ai/a	1 oz/a		PRE	A	100 a	100 a	0 a	68 b	73 ab
2	Mesotrione	2.5 oz ai/a	5 oz/a		PRE						
2	Atrazine	1 lb ai/a	1 qt/a		PRE						
2	Rimsulfuron	0.3 oz ai/a	1.2 oz/a		POST	B					
2	Mesotrione	1.25 oz ai/a	2.5 oz/a		POST						
2	Isoxadifen-Ethyl	0.15 oz ai/a	0.3 oz/a		POST						
2	Abundit	1 lb ai/a	32 oz/a		POST						
2	N-PAK AMS	2.5 % v/v	1.5 qt/a		POST						
3	Rimsulfuron	0.25 oz ai/a	1 oz/a		PRE	A	100 a	100 a	0 a	91 a	70 ab
3	Mesotrione	2.5 oz ai/a	5 oz/a		PRE						
3	Cinch ATZ	2 pt/a	2 pt/a		PRE						
3	Abundit	1 lb ai/a	32 oz/a		POST	B					
3	N-PAK AMS	2.5 % v/v	1.5 qt/a		POST						
4	Rimsulfuron	0.25 oz ai/a	1 oz/a		PRE	A	100 a	100 a	0 a	90 a	77 ab
4	Mesotrione	2.5 oz ai/a	5 oz/a		PRE						
4	Cinch ATZ	3 pt/a	3 pt/a		PRE						
5	Rimsulfuron	0.25 oz ai/a	1 oz/a		PRE	A	100 a	100 a	0 a	95 a	75 ab
5	Mesotrione	2.5 oz ai/a	5 oz/a		PRE						
5	Cinch ATZ	4 pt/a	4 pt/a		PRE						
6	Rimsulfuron	0.25 oz ai/a	1 oz/a		PRE	A	100 a	100 a	0 a	100 a	75 ab
6	Mesotrione	2.5 oz ai/a	5 oz/a		PRE						
6	Dual II Magnum	2 pt/a	2 pt/a		PRE						
6	Rimsulfuron	0.3 oz ai/a	1.2 oz/a		POST	B					
6	Mesotrione	1.25 oz ai/a	2.5 oz/a		POST						
6	Isoxadifen-Ethyl	0.15 oz ai/a	0.3 oz/a		POST						
6	Abundit	1 lb ai/a	32 oz/a		POST						
6	N-PAK AMS	2.5 % v/v	1.5 qt/a		POST						
7	Lumax	3 qt/a	3 qt/a		PRE	A	100 a	100 a	0 a	90 a	47 c
7	Abundit	1 lb ai/a	32 oz/a		POST	B					
7	N-PAK AMS	2.5 % v/v	1.5 qt/a		POST						
8	Corvus	0.115 lb ai/a	5.6 oz/a		PRE	A	100 a	100 a	0 a	78 b	80 a

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Pest Type	W Weed	W Weed	W Weed	W Weed						
Pest Code	AMARE	CHEAL	SETFA	AMBTR						
Pest Scientific Name	Amaranthus ret>	Chenopodium al>	Setaria faberi	Ambrosia trifi>						
Pest Name	Redroot pigweed	Common lambsqu>	Giant foxtail	Giant ragweed						
Crop Code			ZEAMX							
BBCH Scale			BCOR							
Crop Scientific Name			Zea mays							
Crop Name			Corn							
Rating Date	May-10-2012	May-10-2012	May-22-2012	May-22-2012						
Rating Type	CONTRO	CONTRO	PHYTO	CONTRO						
Rating Unit	%	%	%	%						
Number of Subsamples	1	1	1	1						
Days After First/Last Applic.	21 21	21 21	33 33	33 33						
Trt-Eval Interval	21 DA-A	21 DA-A	33 DA-A	33 DA-A						
Plant-Eval Interval	21 DP-1	21 DP-1	33 DP-1	33 DP-1						
Days After Emergence	6 DE-1	6 DE-1	18 DE-1	18 DE-1						
Number of Decimals	0	0	0	0						
Trt Treatment	Rate	Other	Other	Growth	Appl	6	7	8	9	10
No. Name	Rate	Unit	Rate	Rate	Unit	Stage	Code			
8 Atrazine	1.5 lb ai/a		1.5 qt/a			PRE				
8 Abundit	1 lb ai/a		32 oz/a			POST	B			
8 N-PAK AMS	2.5 % v/v		1.5 qt/a			POST				
9 Bicep II Magnum	2.9 lb ai/a		2.1 qt/a			PRE	A	100 a	100 a	0 a
9 Abundit	1 lb ai/a		32 oz/a			POST	B		90 a	47 c
9 N-PAK AMS	2.5 % v/v		1.5 qt/a			POST				
10 UTC								0 b	0 b	0 a
									0 c	0 d
LSD (P=.05)								0.0	0.0	0.0
Standard Deviation								0.0	0.0	0.0
CV								0.0	0.0	0.0
Replicate F								0.000	0.000	0.000
Replicate Prob(F)								1.0000	1.0000	1.0000
Treatment F								0.000	0.000	0.000
Treatment Prob(F)								1.0000	1.0000	1.0000
									7.317	5.148
									0.0047	0.0171
									55.679	25.527
									0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed								
Pest Code	POLPY	ABUTH	AMARE	CHEAL								
Pest Scientific Name	Persicaria pen>	Abutilon theop>	Amaranthus ret>	Chenopodium al>								
Pest Name	Pennsylvania s>	velvetleaf	Redroot pigweed	Common lambsqu>								
Crop Code									ZEAMX			
BBCH Scale									BCOR			
Crop Scientific Name									Zea mays			
Crop Name									Corn			
Rating Date	May-22-2012	May-22-2012	May-22-2012	May-22-2012	Jun-19-2012							
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	PHYTO						
Rating Unit	%	%	%	%	%	%						
Number of Subsamples	1	1	1	1	1	1						
Days After First/Last Applic.	33 33	33 33	33 33	33 33	33 33	61 27						
Trt-Eval Interval	33 DA-A	33 DA-A	33 DA-A	33 DA-A	33 DA-A	27 DA-B						
Plant-Eval Interval	33 DP-1	33 DP-1	33 DP-1	33 DP-1	33 DP-1	61 DP-1						
Days After Emergence	18 DE-1	18 DE-1	18 DE-1	18 DE-1	18 DE-1	46 DE-1						
Number of Decimals	0	0	0	0	0	0						
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	11	12	13	14	15
1	Rimsulfuron	0.25 oz ai/a		1 oz/a		PRE	A	100 a	100 a	100 a	100 a	0 a
1	Mesotrione	2.5 oz ai/a		5 oz/a		PRE						
1	Atrazine	1 lb ai/a		1 qt/a		PRE						
1	Abundit	1 lb ai/a		32 oz/a		POST	B					
1	N-PAK AMS	2.5 % v/v		1.5 qt/a		POST						
2	Rimsulfuron	0.25 oz ai/a		1 oz/a		PRE	A	100 a	100 a	100 a	100 a	0 a
2	Mesotrione	2.5 oz ai/a		5 oz/a		PRE						
2	Atrazine	1 lb ai/a		1 qt/a		PRE						
2	Rimsulfuron	0.3 oz ai/a		1.2 oz/a		POST	B					
2	Mesotrione	1.25 oz ai/a		2.5 oz/a		POST						
2	Isoxadifen-Ethyl	0.15 oz ai/a		0.3 oz/a		POST						
2	Abundit	1 lb ai/a		32 oz/a		POST						
2	N-PAK AMS	2.5 % v/v		1.5 qt/a		POST						
3	Rimsulfuron	0.25 oz ai/a		1 oz/a		PRE	A	100 a	100 a	100 a	100 a	0 a
3	Mesotrione	2.5 oz ai/a		5 oz/a		PRE						
3	Cinch ATZ	2 pt/a		2 pt/a		PRE						
3	Abundit	1 lb ai/a		32 oz/a		POST	B					
3	N-PAK AMS	2.5 % v/v		1.5 qt/a		POST						
4	Rimsulfuron	0.25 oz ai/a		1 oz/a		PRE	A	100 a	100 a	100 a	100 a	0 a
4	Mesotrione	2.5 oz ai/a		5 oz/a		PRE						
4	Cinch ATZ	3 pt/a		3 pt/a		PRE						
5	Rimsulfuron	0.25 oz ai/a		1 oz/a		PRE	A	100 a	100 a	100 a	100 a	0 a
5	Mesotrione	2.5 oz ai/a		5 oz/a		PRE						
5	Cinch ATZ	4 pt/a		4 pt/a		PRE						
6	Rimsulfuron	0.25 oz ai/a		1 oz/a		PRE	A	100 a	100 a	100 a	100 a	0 a
6	Mesotrione	2.5 oz ai/a		5 oz/a		PRE						
6	Dual II Magnum	2 pt/a		2 pt/a		PRE						
6	Rimsulfuron	0.3 oz ai/a		1.2 oz/a		POST	B					
6	Mesotrione	1.25 oz ai/a		2.5 oz/a		POST						
6	Isoxadifen-Ethyl	0.15 oz ai/a		0.3 oz/a		POST						
6	Abundit	1 lb ai/a		32 oz/a		POST						
6	N-PAK AMS	2.5 % v/v		1.5 qt/a		POST						
7	Lumax	3 qt/a		3 qt/a		PRE	A	100 a	100 a	100 a	100 a	0 a
7	Abundit	1 lb ai/a		32 oz/a		POST	B					
7	N-PAK AMS	2.5 % v/v		1.5 qt/a		POST						
8	Corvus	0.115 lb ai/a		5.6 oz/a		PRE	A	100 a	100 a	100 a	100 a	0 a

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Pest Type	W Weed	W Weed	W Weed	W Weed							
Pest Code	POLPY	ABUTH	AMARE	CHEAL							
Pest Scientific Name	Persicaria pen>	Abutilon theop>	Amaranthus ret>	Chenopodium al>							
Pest Name	Pennsylvania s>	velvetleaf	Redroot pigweed	Common lambsqu>							
Crop Code					ZEAMX						
BBCH Scale					BCOR						
Crop Scientific Name					Zea mays						
Crop Name					Corn						
Rating Date	May-22-2012	May-22-2012	May-22-2012	May-22-2012	Jun-19-2012						
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYTO						
Rating Unit	%	%	%	%	%						
Number of Subsamples	1	1	1	1	1						
Days After First/Last Applic.	33 33	33 33	33 33	33 33	61 27						
Trt-Eval Interval	33 DA-A	33 DA-A	33 DA-A	33 DA-A	27 DA-B						
Plant-Eval Interval	33 DP-1	33 DP-1	33 DP-1	33 DP-1	61 DP-1						
Days After Emergence	18 DE-1	18 DE-1	18 DE-1	18 DE-1	46 DE-1						
Number of Decimals	0	0	0	0	0						
Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Growth Stage	Appl Code	11	12	13	14	15
8	Atrazine	1.5 lb ai/a	1.5 qt/a		PRE						
8	Abundit	1 lb ai/a	32 oz/a		POST	B					
8	N-PAK AMS	2.5 % v/v	1.5 qt/a		POST						
9	Bicep II Magnum	2.9 lb ai/a	2.1 qt/a		PRE	A	98 b	100 a	100 a	88 b	0 a
9	Abundit	1 lb ai/a	32 oz/a		POST	B					
9	N-PAK AMS	2.5 % v/v	1.5 qt/a		POST						
10	UTC						0 c	0 b	0 b	0 c	0 a
	LSD (P=.05)						1.6	0.0	0.0	4.1	0.0
	Standard Deviation						0.9	0.0	0.0	2.4	0.0
	CV						1.02	0.0	0.0	2.72	0.0
	Replicate F						1.000	0.000	0.000	1.000	0.000
	Replicate Prob(F)						0.3874	1.0000	1.0000	0.3874	1.0000
	Treatment F						3587.667	0.000	0.000	507.952	0.000
	Treatment Prob(F)						0.0001	1.0000	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	SETFA	AMBTR	POLPY	ABUTH	AMARE						
Pest Scientific Name	Setaria Ambrosia trifidi>	Persicaria pen>	Abutilon theop>	Amaranthus ret>							
Pest Name	Giant foxtail	Giant ragweed	Pennsylvania s>	velvetleaf	Redroot pigweed						
Crop Code											
BBCH Scale											
Crop Scientific Name											
Crop Name											
Rating Date	Jun-19-2012	Jun-19-2012	Jun-19-2012	Jun-19-2012	Jun-19-2012						
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO						
Rating Unit	%	%	%	%	%						
Number of Subsamples	1	1	1	1	1						
Days After First/Last Applic.	61 27	61 27	61 27	61 27	61 27						
Trt-Eval Interval	27 DA-B	27 DA-B	27 DA-B	27 DA-B	27 DA-B						
Plant-Eval Interval	61 DP-1	61 DP-1	61 DP-1	61 DP-1	61 DP-1						
Days After Emergence	46 DE-1	46 DE-1	46 DE-1	46 DE-1	46 DE-1						
Number of Decimals	0	0	0	0	0						
Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Growth Stage	Appl Code	16	17	18	19	20
1	Rimsulfuron	0.25 oz ai/a		1 oz/a	PRE	A	73 b	92 ab	100 a	100 a	100 a
1	Mesotrione	2.5 oz ai/a		5 oz/a	PRE						
1	Atrazine	1 lb ai/a		1 qt/a	PRE						
1	Abundit	1 lb ai/a		32 oz/a	POST	B					
1	N-PAK AMS	2.5 % v/v		1.5 qt/a	POST						
2	Rimsulfuron	0.25 oz ai/a		1 oz/a	PRE	A	82 ab	100 a	100 a	100 a	100 a
2	Mesotrione	2.5 oz ai/a		5 oz/a	PRE						
2	Atrazine	1 lb ai/a		1 qt/a	PRE						
2	Rimsulfuron	0.3 oz ai/a		1.2 oz/a	POST	B					
2	Mesotrione	1.25 oz ai/a		2.5 oz/a	POST						
2	Isoxadifen-Ethyl	0.15 oz ai/a		0.3 oz/a	POST						
2	Abundit	1 lb ai/a		32 oz/a	POST						
2	N-PAK AMS	2.5 % v/v		1.5 qt/a	POST						
3	Rimsulfuron	0.25 oz ai/a		1 oz/a	PRE	A	67 bc	83 bc	100 a	100 a	95 ab
3	Mesotrione	2.5 oz ai/a		5 oz/a	PRE						
3	Cinch ATZ	2 pt/a		2 pt/a	PRE						
3	Abundit	1 lb ai/a		32 oz/a	POST	B					
3	N-PAK AMS	2.5 % v/v		1.5 qt/a	POST						
4	Rimsulfuron	0.25 oz ai/a		1 oz/a	PRE	A	50 cd	27 d	100 a	100 a	100 a
4	Mesotrione	2.5 oz ai/a		5 oz/a	PRE						
4	Cinch ATZ	3 pt/a		3 pt/a	PRE						
5	Rimsulfuron	0.25 oz ai/a		1 oz/a	PRE	A	40 d	37 d	100 a	100 a	97 a
5	Mesotrione	2.5 oz ai/a		5 oz/a	PRE						
5	Cinch ATZ	4 pt/a		4 pt/a	PRE						
6	Rimsulfuron	0.25 oz ai/a		1 oz/a	PRE	A	96 a	100 a	100 a	100 a	100 a
6	Mesotrione	2.5 oz ai/a		5 oz/a	PRE						
6	Dual II Magnum	2 pt/a		2 pt/a	PRE						
6	Rimsulfuron	0.3 oz ai/a		1.2 oz/a	POST	B					
6	Mesotrione	1.25 oz ai/a		2.5 oz/a	POST						
6	Isoxadifen-Ethyl	0.15 oz ai/a		0.3 oz/a	POST						
6	Abundit	1 lb ai/a		32 oz/a	POST						
6	N-PAK AMS	2.5 % v/v		1.5 qt/a	POST						
7	Lumax	3 qt/a		3 qt/a	PRE	A	67 bc	77 c	100 a	100 a	82 bc
7	Abundit	1 lb ai/a		32 oz/a	POST	B					
7	N-PAK AMS	2.5 % v/v		1.5 qt/a	POST						
8	Corvus	0.115 lb ai/a		5.6 oz/a	PRE	A	70 b	95 ab	100 a	100 a	100 a

Ohio State University
Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed					
Pest Code	SETFA	AMBTR	POLPY	ABUTH	AMARE					
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Persicaria sp.	Abutilon theophrasti	Amaranthus retrofractus					
Pest Name	Giant foxtail	Giant ragweed	Pennsylvania sp.	velvetleaf	Redroot pigweed					
Crop Code										
BBCH Scale										
Crop Scientific Name										
Crop Name										
Rating Date	Jun-19-2012	Jun-19-2012	Jun-19-2012	Jun-19-2012	Jun-19-2012					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%					
Number of Subsamples	1	1	1	1	1					
Days After First/Last Applic.	61 27	61 27	61 27	61 27	61 27					
Trt-Eval Interval	27 DA-B	27 DA-B	27 DA-B	27 DA-B	27 DA-B					
Plant-Eval Interval	61 DP-1	61 DP-1	61 DP-1	61 DP-1	61 DP-1					
Days After Emergence	46 DE-1	46 DE-1	46 DE-1	46 DE-1	46 DE-1					
Number of Decimals	0	0	0	0	0					
Trt Treatment	Rate	Other	Other	Growth	Appl	16	17	18	19	20
No. Name	Rate	Unit	Rate	Rate	Unit	Stage	Code			
8 Atrazine	1.5 lb ai/a		1.5 qt/a			PRE				
8 Abundit	1 lb ai/a		32 oz/a			POST	B			
8 N-PAK AMS	2.5 % v/v		1.5 qt/a			POST				
9 Bicep II Magnum	2.9 lb ai/a		2.1 qt/a			PRE	A	67 bc	84 bc	100 a
9 Abundit	1 lb ai/a		32 oz/a			POST	B			
9 N-PAK AMS	2.5 % v/v		1.5 qt/a			POST				
10 UTC								0 e	0 e	0 b
LSD (P=.05)								19.5	13.1	0.0
Standard Deviation								11.4	7.7	0.0
CV								18.57	11.03	0.0
Replicate F								2.610	1.357	0.000
Replicate Prob(F)								0.1011	0.2825	1.0000
Treatment F								16.255	63.792	0.000
Treatment Prob(F)								0.0001	0.0001	1.0000

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Pest Type	W Weed	W Weed
Pest Code	CHEAL	IPOHE
Pest Scientific Name	Chenopodium al-	Ipomoea heder->
Pest Name	Common lambsqu->	Ivyleaf mornin->
Crop Code		
BBCH Scale		
Crop Scientific Name		
Crop Name		
Rating Date	Jun-19-2012	Jun-19-2012
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Days After First/Last Applic.	61 27	61 27
Trt-Eval Interval	27 DA-B	27 DA-B
Plant-Eval Interval	61 DP-1	61 DP-1
Days After Emergence	46 DE-1	46 DE-1
Number of Decimals	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Growth Stage	Appl Code	21	22
1	Rimsulfuron	0.25 oz ai/a	1 oz/a		PRE	A	100 a	85 abc
1	Mesotrione	2.5 oz ai/a	5 oz/a		PRE			
1	Atrazine	1 lb ai/a	1 qt/a		PRE			
1	Abundit	1 lb ai/a	32 oz/a		POST	B		
1	N-PAK AMS	2.5 % v/v	1.5 qt/a		POST			
2	Rimsulfuron	0.25 oz ai/a	1 oz/a		PRE	A	100 a	92 ab
2	Mesotrione	2.5 oz ai/a	5 oz/a		PRE			
2	Atrazine	1 lb ai/a	1 qt/a		PRE			
2	Rimsulfuron	0.3 oz ai/a	1.2 oz/a		POST	B		
2	Mesotrione	1.25 oz ai/a	2.5 oz/a		POST			
2	Isoxadifen-Ethyl	0.15 oz ai/a	0.3 oz/a		POST			
2	Abundit	1 lb ai/a	32 oz/a		POST			
2	N-PAK AMS	2.5 % v/v	1.5 qt/a		POST			
3	Rimsulfuron	0.25 oz ai/a	1 oz/a		PRE	A	95 a	73 c
3	Mesotrione	2.5 oz ai/a	5 oz/a		PRE			
3	Cinch ATZ	2 pt/a	2 pt/a		PRE			
3	Abundit	1 lb ai/a	32 oz/a		POST	B		
3	N-PAK AMS	2.5 % v/v	1.5 qt/a		POST			
4	Rimsulfuron	0.25 oz ai/a	1 oz/a		PRE	A	100 a	97 a
4	Mesotrione	2.5 oz ai/a	5 oz/a		PRE			
4	Cinch ATZ	3 pt/a	3 pt/a		PRE			
5	Rimsulfuron	0.25 oz ai/a	1 oz/a		PRE	A	100 a	73 c
5	Mesotrione	2.5 oz ai/a	5 oz/a		PRE			
5	Cinch ATZ	4 pt/a	4 pt/a		PRE			
6	Rimsulfuron	0.25 oz ai/a	1 oz/a		PRE	A	100 a	92 ab
6	Mesotrione	2.5 oz ai/a	5 oz/a		PRE			
6	Dual II Magnum	2 pt/a	2 pt/a		PRE			
6	Rimsulfuron	0.3 oz ai/a	1.2 oz/a		POST	B		
6	Mesotrione	1.25 oz ai/a	2.5 oz/a		POST			
6	Isoxadifen-Ethyl	0.15 oz ai/a	0.3 oz/a		POST			
6	Abundit	1 lb ai/a	32 oz/a		POST			
6	N-PAK AMS	2.5 % v/v	1.5 qt/a		POST			
7	Lumax	3 qt/a	3 qt/a		PRE	A	95 a	77 c
7	Abundit	1 lb ai/a	32 oz/a		POST	B		
7	N-PAK AMS	2.5 % v/v	1.5 qt/a		POST			
8	Corvus	0.115 lb ai/a	5.6 oz/a		PRE	A	100 a	82 bc

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Pest Type				W Weed		W Weed
Pest Code				CHEAL		IPOHE
Pest Scientific Name				Chenopodium al>		Ipomoea hедера>
Pest Name				Common lambsqu>		Ivyleaf mornin>
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date				Jun-19-2012		Jun-19-2012
Rating Type				CONTRO		CONTRO
Rating Unit				%		%
Number of Subsamples				1		1
Days After First/Last Applic.				61 27		61 27
Trt-Eval Interval				27 DA-B		27 DA-B
Plant-Eval Interval				61 DP-1		61 DP-1
Days After Emergence				46 DE-1		46 DE-1
Number of Decimals				0		0
Trt Treatment						
No. Name		Rate	Unit	Other Rate	Other Rate	Growth Appl Stage Code
8 Atrazine		1.5 lb	ai/a	1.5 qt/a		
8 Abundit		1 lb	ai/a	32 oz/a		PRE
8 N-PAK AMS		2.5 %	v/v	1.5 qt/a		POST B
						POST
9 Bicep II Magnum		2.9 lb	ai/a	2.1 qt/a		PRE A
9 Abundit		1 lb	ai/a	32 oz/a		POST B
9 N-PAK AMS		2.5 %	v/v	1.5 qt/a		POST
10 UTC						
LSD (P=.05)						83 b
Standard Deviation						77 c
CV						0 c
Replicate F						0 c
Replicate Prob(F)						11.0
Treatment F						12.1
Treatment Prob(F)						6.4
						7.37
						9.48
						0.262
						0.316
						0.7726
						0.7330
						70.255
						45.279
						0.0001
						0.0001