

Ohio State University Horticulture and Crop Science

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

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:		15 100
Height, Unit:		3 IN
Height Minimum, Maximum:		2 4
Density, Unit:		4 M2
Pest 2 Code, Type, Scale:	IPOHE W	IPOHE W
Stage Majority, Percent:		13 100
Height, Unit:		2 IN
Height Minimum, Maximum:		2 2
Density, Unit:		6.5 M2
Pest 3 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:		12 100
Height, Unit:		1.5 IN
Height Minimum, Maximum:		1 2
Density, Unit:		56 M2
Pest 4 Code, Type, Scale:	POLPY W	POLPY W
Stage Majority, Percent:		13 100
Height, Unit:		1.5 IN
Height Minimum, Maximum:		1 2
Density, Unit:		17 M2
Pest 5 Code, Type, Scale:	AMARE W	AMARE W
Density, Unit:		34.6 M2
Pest 6 Code, Type, Scale:	AMBEL W	AMBEL W
Density, Unit:		4 M2
Pest 7 Code, Type, Scale:	IPOHE W	IPOHE W
Pest 8 Code, Type, Scale:	ECHCG W	ECHCG W
Density, Unit:		6.5 M2
Pest 9 Code, Type, Scale:	CHEAL W	CHEAL W
Density, Unit:		34.6 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:	0.33 Gallons	0.33 Gallons
Propellant:	CO2	CO2

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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 trifi> Persicaria pen> Abutilon theop> Amaranthus ret>										
Pest Name	Giant foxtail Giant ragweed		Pennsylvania s>	velvetleaf	Redroot pigweed						
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	May-10-2012						
Rating Type	PHYTO	CONTRO	CONTRO	CONTRO	CONTRO						
Rating Unit	%	%	%	%	%						
Number of Subsamples	1	1	1	1	1						
Days After First/Last Applic.	21 21	21 21	21 21	21 21	21 21						
Trt-Eval Interval	21 DA-A	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	21 DP-1						
Days After Emergence	6 DE-1	6 DE-1	6 DE-1	6 DE-1	6 DE-1						
Number of Decimals	0	0	0	0	0						
Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	1	2	3	4	5	6
1	Rimsulfuron	0.3 oz ai/a	1.2 oz/a		A	0 a	93 a	82 abc	100 a	100 a	100 a
1	Isoxaflutole	0.6 oz ai/a	0.8 oz/a								
1	Breakfree ATZ	2.1 lb ai/a	1.5 qt/a								
2	Rimsulfuron	0.25 oz ai/a	1 oz/a		A	0 a	95 a	63 c	100 a	100 a	100 a
2	Isoxaflutole	0.5 oz ai/a	0.67 oz/a								
2	Breakfree ATZ	2.8 lb ai/a	2 qt/a								
3	Rimsulfuron	0.25 oz ai/a	1 oz/a		A	0 a	100 a	96 a	100 a	100 a	100 a
3	Isoxaflutole	0.5 oz ai/a	0.67 oz/a								
3	Cinch ATZ	2.75 lb ai/a	2 qt/a								
4	Rimsulfuron	0.25 oz ai/a	1 oz/a		A	0 a	97 a	67 bc	100 a	100 a	100 a
4	Isoxaflutole	0.5 oz ai/a	0.67 oz/a								
4	Atrazine	1 lb ai/a	1 qt/a								
4	Rimsulfuron	0.3 oz ai/a	1.2 oz/a		B						
4	Isoxadifen-Ethy	0.15 oz ai/a	0.3 oz/a								
4	Mesotrione	1.25 oz ai/a	2.5 oz/a								
4	Abundit	32 fl oz/a	1 qt/a								
4	N-PAK AMS	5 % v/v	3 qt/a								
5	Corvus	5.6 fl oz/a	5.6 oz/a		A	0 a	99 a	87 abc	100 a	100 a	100 a
6	Corvus	5.6 fl oz/a	5.6 oz/a		A	0 a	100 a	92 ab	100 a	100 a	100 a
6	Atrazine	1 lb ai/a	1 qt/a								
7	Rimsulfuron	0.25 oz ai/a	1 oz/a		A	0 a	97 a	65 c	100 a	100 a	100 a
7	Isoxaflutole	0.5 oz ai/a	0.67 oz/a								
7	Atrazine	1 lb ai/a	1 qt/a								
7	Abundit	32 fl oz/a	1 qt/a		B						
7	N-PAK AMS	5 % v/v	3 qt/a								
8						0 a	0 b	0 d	0 b	0 b	0 b
LSD (P=.05)						0.0	7.4	26.0	0.0	0.0	0.0
Standard Deviation						0.0	4.2	14.8	0.0	0.0	0.0
CV						0.0	4.97	21.51	0.0	0.0	0.0
Bartlett's X2						0.0	6.356	7.936	0.0	0.0	0.0
P(Bartlett's X2)						.	0.174	0.243	.	.	.
Replicate F						0.000	6.535	0.947	0.000	0.000	0.000
Replicate Prob(F)						1.0000	0.0099	0.4115	1.0000	1.0000	1.0000
Treatment F						0.000	199.092	12.747	0.000	0.000	0.000
Treatment Prob(F)						1.0000	0.0001	0.0001	1.0000	1.0000	1.0000

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Pest Type	W Weed	W Weed	W Weed	W Weed						
Pest Code	CHEAL	IPOHE	SETFA	AMBTR						
Pest Scientific Name	Chenopodium al>	Ipomoea hederata>	Setaria faberi	Ambrosia trifida>						
Pest Name	Common lambsqu>	Ivyleaf mornin>	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	Appl Unit Code	7	8	9	10	11
1	Rimsulfuron	0.3 oz ai/a	1.2 oz/a		A	100 a	63 b	0 a	85 b	73 ab
1	Isoxaflutole	0.6 oz ai/a	0.8 oz/a							
1	Breakfree ATZ	2.1 lb ai/a	1.5 qt/a							
2	Rimsulfuron	0.25 oz ai/a	1 oz/a		A	99 a	53 b	0 a	83 b	60 b
2	Isoxaflutole	0.5 oz ai/a	0.67 oz/a							
2	Breakfree ATZ	2.8 lb ai/a	2 qt/a							
3	Rimsulfuron	0.25 oz ai/a	1 oz/a		A	100 a	93 a	0 a	100 a	88 a
3	Isoxaflutole	0.5 oz ai/a	0.67 oz/a							
3	Cinch ATZ	2.75 lb ai/a	2 qt/a							
4	Rimsulfuron	0.25 oz ai/a	1 oz/a		A	100 a	77 ab	0 a	87 ab	60 b
4	Isoxaflutole	0.5 oz ai/a	0.67 oz/a							
4	Atrazine	1 lb ai/a	1 qt/a							
4	Rimsulfuron	0.3 oz ai/a	1.2 oz/a		B					
4	Isoxadifen-Ethy	0.15 oz ai/a	0.3 oz/a							
4	Mesotrione	1.25 oz ai/a	2.5 oz/a							
4	Abundit	32 fl oz/a	1 qt/a							
4	N-PAK AMS	5 % v/v	3 qt/a							
5	Corvus	5.6 fl oz/a	5.6 oz/a		A	100 a	77 ab	1 a	96 ab	89 a
6	Corvus	5.6 fl oz/a	5.6 oz/a		A	100 a	80 ab	0 a	100 a	95 a
6	Atrazine	1 lb ai/a	1 qt/a							
7	Rimsulfuron	0.25 oz ai/a	1 oz/a		A	100 a	68 ab	0 a	88 ab	60 b
7	Isoxaflutole	0.5 oz ai/a	0.67 oz/a							
7	Atrazine	1 lb ai/a	1 qt/a							
7	Abundit	32 fl oz/a	1 qt/a		B					
7	N-PAK AMS	5 % v/v	3 qt/a							
8						0 b	0 c	0 a	0 c	0 c
LSD (P=.05)						1.1	27.7	0.7	13.4	28.1
Standard Deviation						0.6	15.8	0.4	7.7	16.1
CV						0.7	24.78	489.9	9.6	24.44
Bartlett's X2						0.0	9.964	0.0	4.519	10.696
P(Bartlett's X2)						.	0.126	.	0.34	0.098
Replicate F						1.000	1.832	1.000	5.553	0.544
Replicate Prob(F)						0.3927	0.1964	0.3927	0.0168	0.5924
Treatment F						9972.430	9.626	1.000	55.398	10.624
Treatment Prob(F)						0.0001	0.0002	0.4706	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed					
Pest Code	POLPY	ABUTH	AMARE	CHEAL	IPOHE					
Pest Scientific Name	Persicaria pen>	Abutilon theop>	Amaranthus ret>	Chenopodium al>	Ipomoea hedera>					
Pest Name	Pennsylvania s>	velvetleaf	Redroot pigweed	Common lambsqu>	Ivyleaf mornin>					
Crop Code										
BBCH Scale										
Crop Scientific Name										
Crop Name										
Rating Date	May-22-2012	May-22-2012	May-22-2012	May-22-2012	May-22-2012					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%					
Number of Subsamples	1	1	1	1	1					
Days After First/Last Applic.	33 33	33 33	33 33	33 33	33 33					
Trt-Eval Interval	33 DA-A	33 DA-A	33 DA-A	33 DA-A	33 DA-A					
Plant-Eval Interval	33 DP-1	33 DP-1	33 DP-1	33 DP-1	33 DP-1					
Days After Emergence	18 DE-1	18 DE-1	18 DE-1	18 DE-1	18 DE-1					
Number of Decimals	0	0	0	0	0					
Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	12	13	14	15	16
1	Rimsulfuron	0.3 oz ai/a	1.2 oz/a		A	88 a	100 a	97 a	100 a	57 b
1	Isoxaflutole	0.6 oz ai/a	0.8 oz/a							
1	Breakfree ATZ	2.1 lb ai/a	1.5 qt/a							
2	Rimsulfuron	0.25 oz ai/a	1 oz/a		A	93 a	100 a	100 a	98 a	70 b
2	Isoxaflutole	0.5 oz ai/a	0.67 oz/a							
2	Breakfree ATZ	2.8 lb ai/a	2 qt/a							
3	Rimsulfuron	0.25 oz ai/a	1 oz/a		A	100 a	100 a	100 a	100 a	92 a
3	Isoxaflutole	0.5 oz ai/a	0.67 oz/a							
3	Cinch ATZ	2.75 lb ai/a	2 qt/a							
4	Rimsulfuron	0.25 oz ai/a	1 oz/a		A	98 a	100 a	100 a	100 a	73 b
4	Isoxaflutole	0.5 oz ai/a	0.67 oz/a							
4	Atrazine	1 lb ai/a	1 qt/a							
4	Rimsulfuron	0.3 oz ai/a	1.2 oz/a		B					
4	Isoxadifen-Ethy	0.15 oz ai/a	0.3 oz/a							
4	Mesotrione	1.25 oz ai/a	2.5 oz/a							
4	Abundit	32 fl oz/a	1 qt/a							
4	N-PAK AMS	5 % v/v	3 qt/a							
5	Corvus	5.6 fl oz/a	5.6 oz/a		A	100 a	100 a	100 a	100 a	73 b
6	Corvus	5.6 fl oz/a	5.6 oz/a		A	100 a	100 a	100 a	100 a	93 a
6	Atrazine	1 lb ai/a	1 qt/a							
7	Rimsulfuron	0.25 oz ai/a	1 oz/a		A	87 a	100 a	100 a	100 a	70 b
7	Isoxaflutole	0.5 oz ai/a	0.67 oz/a							
7	Atrazine	1 lb ai/a	1 qt/a							
7	Abundit	32 fl oz/a	1 qt/a		B					
7	N-PAK AMS	5 % v/v	3 qt/a							
8						0 b	0 b	0 b	0 b	0 c
LSD (P=.05)						13.7	0.0	3.6	1.8	18.2
Standard Deviation						7.8	0.0	2.0	1.0	10.4
CV						9.4	0.0	2.34	1.17	15.71
Bartlett's X2						4.153	0.0	0.0	0.0	2.591
P(Bartlett's X2)						0.245	.	.	.	0.858
Replicate F						3.330	0.000	1.000	1.000	13.371
Replicate Prob(F)						0.0656	1.0000	0.3927	0.3927	0.0006
Treatment F						56.893	0.000	892.429	3583.858	23.855
Treatment Prob(F)						0.0001	1.0000	0.0001	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	POLPY	ABUTH	AMARE
Pest Scientific Name	Setaria Ambrosia trifi> faberi	Persicaria pen>	Abutilon theop>	Amaranthus ret>	
Pest Name	Giant foxtail	Giant ragweed	Pennsylvania s>	velvetleaf	Redroot pigweed
Crop Code	ZEAMX				
BBCH Scale	BCOR				
Crop Scientific Name	Zea mays				
Crop Name	Corn				
Rating Date	Jun-19-2012	Jun-19-2012	Jun-19-2012	Jun-19-2012	Jun-19-2012
Rating Type	PHYTO	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	Appl	
No. Name	Rate Unit	Rate	Rate Unit	Code	
					17
					18
					19
					20
					21
					22
1 Rimsulfuron	0.3 oz ai/a	1.2 oz/a		A	0 a
1 Isoxaflutole	0.6 oz ai/a	0.8 oz/a			53 de
1 Breakfree ATZ	2.1 lb ai/a	1.5 qt/a			30 c
					50 b
					93 ab
					100 a
2 Rimsulfuron	0.25 oz ai/a	1 oz/a		A	0 a
2 Isoxaflutole	0.5 oz ai/a	0.67 oz/a			50 e
2 Breakfree ATZ	2.8 lb ai/a	2 qt/a			27 c
					47 b
					100 a
					90 a
3 Rimsulfuron	0.25 oz ai/a	1 oz/a		A	0 a
3 Isoxaflutole	0.5 oz ai/a	0.67 oz/a			83 b
3 Cinch ATZ	2.75 lb ai/a	2 qt/a			67 b
					100 a
					87 b
					97 a
4 Rimsulfuron	0.25 oz ai/a	1 oz/a		A	0 a
4 Isoxaflutole	0.5 oz ai/a	0.67 oz/a			98 a
4 Atrazine	1 lb ai/a	1 qt/a			98 a
4 Rimsulfuron	0.3 oz ai/a	1.2 oz/a		B	
4 Isoxadifen-Ethy	0.15 oz ai/a	0.3 oz/a			100 a
4 Mesotrione	1.25 oz ai/a	2.5 oz/a			100 a
4 Abundit	32 fl oz/a	1 qt/a			100 a
4 N-PAK AMS	5 % v/v	3 qt/a			100 a
					93 a
5 Corvus	5.6 fl oz/a	5.6 oz/a		A	0 a
					63 cd
					58 b
					100 a
					100 a
					93 a
6 Corvus	5.6 fl oz/a	5.6 oz/a		A	0 a
6 Atrazine	1 lb ai/a	1 qt/a			68 c
					62 b
					100 a
					100 a
					97 a
7 Rimsulfuron	0.25 oz ai/a	1 oz/a		A	0 a
7 Isoxaflutole	0.5 oz ai/a	0.67 oz/a			86 ab
7 Atrazine	1 lb ai/a	1 qt/a			93 a
7 Abundit	32 fl oz/a	1 qt/a		B	
7 N-PAK AMS	5 % v/v	3 qt/a			100 a
					100 a
					100 a
					92 a
8					0 a
					0 f
					0 d
					0 c
					0 c
					0 b
LSD (P=.05)					0.0
Standard Deviation					12.2
CV					7.0
Bartlett's X2					21.4
P(Bartlett's X2)					12.2
					10.1
					11.98
					3.306
					0.508
Replicate F					0.000
Replicate Prob(F)					1.174
Treatment F					0.188
Treatment Prob(F)					2.116
					0.076
					0.9301
					34.530
					0.0001

Ohio State University Horticulture and Crop Science

Pest Type		W Weed	W Weed			
Pest Code		CHEAL	IPOHE			
Pest Scientific Name		Chenopodium al>	Ipomoea hederata>			
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 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	Rate	Other Other	Appl			
No. Name	Rate Unit	Rate Rate Unit	Code	23	24	25
1 Rimsulfuron	0.3 oz ai/a	1.2 oz/a	A	100 a	23 c	
1 Isoxaflutole	0.6 oz ai/a	0.8 oz/a				
1 Breakfree ATZ	2.1 lb ai/a	1.5 qt/a				
2 Rimsulfuron	0.25 oz ai/a	1 oz/a	A	90 b	23 c	
2 Isoxaflutole	0.5 oz ai/a	0.67 oz/a				
2 Breakfree ATZ	2.8 lb ai/a	2 qt/a				
3 Rimsulfuron	0.25 oz ai/a	1 oz/a	A	100 a	73 ab	
3 Isoxaflutole	0.5 oz ai/a	0.67 oz/a				
3 Cinch ATZ	2.75 lb ai/a	2 qt/a				
4 Rimsulfuron	0.25 oz ai/a	1 oz/a	A	100 a	90 a	
4 Isoxaflutole	0.5 oz ai/a	0.67 oz/a				
4 Atrazine	1 lb ai/a	1 qt/a				
4 Rimsulfuron	0.3 oz ai/a	1.2 oz/a	B			
4 Isoxadifen-Ethy	0.15 oz ai/a	0.3 oz/a				
4 Mesotrione	1.25 oz ai/a	2.5 oz/a				
4 Abundit	32 fl oz/a	1 qt/a				
4 N-PAK AMS	5 % v/v	3 qt/a				
5 Corvus	5.6 fl oz/a	5.6 oz/a	A	100 a	57 b	
6 Corvus	5.6 fl oz/a	5.6 oz/a	A	97 ab	72 ab	
6 Atrazine	1 lb ai/a	1 qt/a				
7 Rimsulfuron	0.25 oz ai/a	1 oz/a	A	100 a	90 a	
7 Isoxaflutole	0.5 oz ai/a	0.67 oz/a				
7 Atrazine	1 lb ai/a	1 qt/a				
7 Abundit	32 fl oz/a	1 qt/a	B			
7 N-PAK AMS	5 % v/v	3 qt/a				
8				0 c	0 c	
LSD (P=.05)				7.2	32.2	.
Standard Deviation				4.1	18.4	.
CV				4.76	34.29	.
Bartlett's X2				0.558	6.612	.
P(Bartlett's X2)				0.455	0.251	.
Replicate F				1.000	2.618	
Replicate Prob(F)				0.3927	0.1082	
Treatment F				218.714	10.274	
Treatment Prob(F)				0.0001	0.0001	