

Ohio State University Horticulture and Crop Science

Application Description

	A	B	C
Application Date:	5/1/10	5/31/10	7/8/10
Time of Day:	5:00 A.M.	10:00 A.M	8:45 A.M.
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	POST	VT
Application Placement:	BROSOI	BROFO	BROFO
Applied By:	Dobbels	Loux	Dobbels
Air Temperature, Unit:	66 F	78 F	82 F
% Relative Humidity:	60	72	73
Wind Velocity, Unit:	7 MPH	6 MPH	0 MPH
Wind Direction:	W	ESE	
Dew Presence (Y/N):	N no	N no	Y yes
Soil Temperature, Unit:	58 F	74 F	75 F
Soil Moisture:	DRY	DRY	DRY
% Cloud Cover:	100	15	0
Next Rain Occurred On:	5/1/10	6/2/10	7/8/10

Crop Stage At Each Application

	A		B		C	
Crop 1 Code, BBCH Scale:	ZEAMX	BCOR	ZEAMX	BCOR	ZEAMX	BCOR
Stage Scale Used:			BBCH		BBCH	
Stage Majority, Percent:			16	100	63	100
Height, Unit:			13	IN	121	IN
Height Minimum, Maximum:			12	14	120	121

Pest Stage At Each Application

	A		B		C	
Pest 1 Code, Type, Scale:	AMBTR	W	AMBTR	W	AMBTR	W
Stage Majority, Percent:			14	100		
Height, Unit:			3	IN		
Height Minimum, Maximum:			2	4		
Density, Unit:			2	M2		

Application Equipment

	A	B	C
Appl. Equipment:	Tractor	BACKPACK	OVERHEAD
Equipment Type:	SPTRMO	SPRBAC	SPRBAC
Operating Pressure, Unit:	32 PSI	53 PSI	58 PSI
Nozzle Type:	DG	TEEJET DG	TEEJET VS
Nozzle Size:	11002	11002	8001
Nozzle Spacing, Unit:	20 IN	18 IN	15 IN
Boom Length, Unit:	15 FT	10 FT	10 FT
Boom Height, Unit:	20 IN	20 IN	12 FT
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	20 GAL/AC	20 GAL/AC	15 GAL/AC
Mix Size, Unit:	10 gallons	3 Liters	3 gallons
Propellant:	PUMROL	CO2	CO2
Tank Mix (Y/N):	N no		

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Get the Most Out of Every Corn Acre

Title No. 2:
Trial ID: 10GMOECA
Location: WESTERN BRANCH BIG E
Project ID:

Protocol ID: 10GMOECA
Study Director: Anthony F. Dobbels
Investigator: Dr. Mark M. Loux
Sponsor Contact: Caren Judge, BASF

	SETFA	AMBTR	AMBEL	CHEAL	ABUTH	SETFA
Pest Code						
Crop Code						
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ambrosia artem>	Chenopodium al>	Abutilon theop>	Setaria faberi
Pest Name	Giant foxtail	Giant ragweed	Common ragweed	Common lambsqu>	Velvetleaf	Giant foxtail
Rating Date	5/31/10	5/31/10	5/31/10	5/31/10	5/31/10	6/28/10
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Trt-Eval Interval	0 DA-B	0 DA-B	0 DA-B	0 DA-B	0 DA-B	28 DA-B
Plant-Eval Interval	31 DP-1	31 DP-1	31 DP-1	31 DP-1	31 DP-1	59 DP-1
Days After Emergence	21 DE-	21 DE-	21 DE-	21 DE-	21 DE-	49 DE-

Trt	Treatment	Form	Other	Other	Appl	1	2	3	4	5	6
No.	Name	Conc	Rate	Rate	Unit Code						
1	UTC					0	0	0	0	0	0
2	Guardsman Max	5	56 oz/a		A	100	50	100	100	100	97
	2 Roundup PowerMax	4.5	22 oz/a		B						
	2 NIS	100	4.8 oz/a								
	2 N-PAK AMS	100	3 qt/a								
3	Integrity	5.57	16 oz/a		A	100	89	100	100	100	100
	3 Roundup PowerMax	4.5	22 oz/a		B						
	3 NIS	100	4.8 oz/a								
	3 N-PAK AMS	100	1.5 qt/a								
4	Integrity	5.57	16 oz/a		A	100	95	100	100	100	100
	4 Roundup PowerMax	4.5	22 oz/a		B						
	4 Status	56	2.5 oz/a								
	4 N-PAK AMS	100	1.5 qt/a								
5	Integrity	5.57	16 oz/a		A	100	93	100	100	100	99
	5 Roundup PowerMax	4.5	22 oz/a		B						
	5 Headline	2.09	6 oz/a								
	5 N-PAK AMS	100	1.5 qt/a								
6	Integrity	5.57	16 oz/a		A	100	92	100	100	100	97
	6 Roundup PowerMax	4.5	22 oz/a		B						
	6 NIS	100	4.8 oz/a								
	6 N-PAK AMS	100	1.5 qt/a								
	6 Headline Amp	1.68	10 oz/a		C						
	6 NIS	100	4.8 oz/a								
7	Integrity	5.57	16 oz/a		A	100	88	100	100	100	96
	7 Roundup PowerMax	4.5	22 oz/a		B						
	7 Status	56	2.5 oz/a								
	7 N-PAK AMS	100	1.5 qt/a								
	7 Headline Amp	1.68	10 oz/a		C						
	7 NIS	100	4.8 oz/a								
8	Integrity	5.57	16 oz/a		A	100	92	100	100	100	97
	8 Roundup PowerMax	4.5	22 oz/a		B						
	8 Headline	2.09	6 oz/a								
	8 N-PAK AMS	100	1.5 qt/a								
	8 Headline Amp	1.68	10 oz/a		C						
	8 NIS	100	4.8 oz/a								
	LSD (P=.05)					0.2	9.0	0.0	0.0	0.0	4.0
	Standard Deviation					0.1	7.6	0.0	0.0	0.0	3.4
	CV					0.16	10.2	0.0	0.0	0.0	3.92
	Bartlett's X2					0.0	5.93	0.0	0.0	0.0	30.964
	P(Bartlett's X2)					.	0.431	.	.	.	0.001*
	Replicate F					1.000	0.648	0.000	0.000	0.000	1.519
	Replicate Prob(F)					0.4321	0.6650	1.0000	1.0000	1.0000	0.2092
	Treatment F					359829.598	116.389	0.000	0.000	0.000	638.439
	Treatment Prob(F)					0.0001	0.0001	1.0000	1.0000	1.0000	0.0001

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Pest Code	AMBTR		AMBEL		CHEAL		ABUTH		CERCZM	
Crop Code										
Pest Scientific Name	Ambrosia trifida>		Ambrosia artemisiifolia>		Chenopodium album>		Abutilon theophrasti>		Cercospora zeae-maydis>	
Pest Name	Giant ragweed		Common ragweed		Common lambsquarters		Velvetleaf		Grey leaf spot	
Rating Date	6/28/10		6/28/10		6/28/10		6/28/10		8/2/10	
Rating Type	CONTRO		CONTRO		CONTRO		CONTRO		INFEST	
Rating Unit	%		%		%		%		%	
Trt-Eval Interval	28 DA-B		28 DA-B		28 DA-B		28 DA-B		25 DA-C	
Plant-Eval Interval	59 DP-1		59 DP-1		59 DP-1		59 DP-1		94 DP-1	
Days After Emergence	49 DE-		49 DE-		49 DE-		49 DE-		84 DE-	
Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	7	8	9	10	11
1	UTC					0	0	0	0	1
2	Guardsman Max	5	56 oz/a		A	79	100	98	98	1
2	Roundup PowerMax	4.5	22 oz/a		B					
2	NIS	100	4.8 oz/a							
2	N-PAK AMS	100	3 qt/a							
3	Integrity	5.57	16 oz/a		A	83	100	100	100	1
3	Roundup PowerMax	4.5	22 oz/a		B					
3	NIS	100	4.8 oz/a							
3	N-PAK AMS	100	1.5 qt/a							
4	Integrity	5.57	16 oz/a		A	91	100	100	100	1
4	Roundup PowerMax	4.5	22 oz/a		B					
4	Status	56	2.5 oz/a							
4	N-PAK AMS	100	1.5 qt/a							
5	Integrity	5.57	16 oz/a		A	87	100	100	100	1
5	Roundup PowerMax	4.5	22 oz/a		B					
5	Headline	2.09	6 oz/a							
5	N-PAK AMS	100	1.5 qt/a							
6	Integrity	5.57	16 oz/a		A	94	100	100	100	1
6	Roundup PowerMax	4.5	22 oz/a		B					
6	NIS	100	4.8 oz/a							
6	N-PAK AMS	100	1.5 qt/a							
6	Headline Amp	1.68	10 oz/a		C					
6	NIS	100	4.8 oz/a							
7	Integrity	5.57	16 oz/a		A	94	100	100	100	1
7	Roundup PowerMax	4.5	22 oz/a		B					
7	Status	56	2.5 oz/a							
7	N-PAK AMS	100	1.5 qt/a							
7	Headline Amp	1.68	10 oz/a		C					
7	NIS	100	4.8 oz/a							
8	Integrity	5.57	16 oz/a		A	89	100	100	100	0
8	Roundup PowerMax	4.5	22 oz/a		B					
8	Headline	2.09	6 oz/a							
8	N-PAK AMS	100	1.5 qt/a							
8	Headline Amp	1.68	10 oz/a		C					
8	NIS	100	4.8 oz/a							
LSD (P=.05)						6.7	0.0	2.6	2.6	0.7
Standard Deviation						5.7	0.0	2.2	2.2	0.6
CV						7.4	0.0	2.48	2.48	76.14
Bartlett's X2						10.366	0.0	0.0	0.0	4.234
P(Bartlett's X2)						0.11	.	.	.	0.753
Replicate F						2.426	0.000	1.000	1.000	0.751
Replicate Prob(F)						0.0546	1.0000	0.4321	0.4321	0.5909
Treatment F						183.795	0.000	1589.572	1589.572	3.165
Treatment Prob(F)						0.0001	1.0000	0.0001	0.0001	0.0106

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Pest Code	CERCZM	COLLGR	HELMSP	
Crop Code				ZEAMX
Pest Scientific Name	Cercospora zea> Glomerella gra> Helminthospori>			
Pest Name	Grey leaf spot> Anthracnose of> Helminthospori>			
Rating Date	8/2/10	8/2/10	8/2/10	9/8/10
Rating Type	INFEST	INFEST	INFEST	SENESC
Rating Unit	%	%	%	%
Trt-Eval Interval	25 DA-C	25 DA-C	25 DA-C	
Plant-Eval Interval	94 DP-1	94 DP-1	94 DP-1	131 DP-1
Days After Emergence	84 DE-	84 DE-	84 DE-	121 DE

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate Unit	Appl Code	12	13	14	15
1	UTC					2	1	0	91
2	Guardsman Max	5	56 oz/a		A	3	1	1	88
2	Roundup PowerMax	4.5	22 oz/a		B				
2	NIS	100	4.8 oz/a						
2	N-PAK AMS	100	3 qt/a						
3	Integrity	5.57	16 oz/a		A	3	1	1	92
3	Roundup PowerMax	4.5	22 oz/a		B				
3	NIS	100	4.8 oz/a						
3	N-PAK AMS	100	1.5 qt/a						
4	Integrity	5.57	16 oz/a		A	4	1	0	91
4	Roundup PowerMax	4.5	22 oz/a		B				
4	Status	56	2.5 oz/a						
4	N-PAK AMS	100	1.5 qt/a						
5	Integrity	5.57	16 oz/a		A	2	1	0	90
5	Roundup PowerMax	4.5	22 oz/a		B				
5	Headline	2.09	6 oz/a						
5	N-PAK AMS	100	1.5 qt/a						
6	Integrity	5.57	16 oz/a		A	2	1	0	86
6	Roundup PowerMax	4.5	22 oz/a		B				
6	NIS	100	4.8 oz/a						
6	N-PAK AMS	100	1.5 qt/a						
6	Headline Amp	1.68	10 oz/a		C				
6	NIS	100	4.8 oz/a						
7	Integrity	5.57	16 oz/a		A	2	0	0	86
7	Roundup PowerMax	4.5	22 oz/a		B				
7	Status	56	2.5 oz/a						
7	N-PAK AMS	100	1.5 qt/a						
7	Headline Amp	1.68	10 oz/a		C				
7	NIS	100	4.8 oz/a						
8	Integrity	5.57	16 oz/a		A	2	0	0	86
8	Roundup PowerMax	4.5	22 oz/a		B				
8	Headline	2.09	6 oz/a						
8	N-PAK AMS	100	1.5 qt/a						
8	Headline Amp	1.68	10 oz/a		C				
8	NIS	100	4.8 oz/a						
LSD (P=.05)						0.9	0.9	0.6	7.4
Standard Deviation						0.8	0.8	0.5	6.3
CV						33.28	131.66	183.51	7.07
Bartlett's X2						9.192	18.838	14.769	3.334
P(Bartlett's X2)						0.239	0.009*	0.039*	0.853
Replicate F						1.745	7.698	6.359	4.041
Replicate Prob(F)						0.1502	0.0001	0.0003	0.0053
Treatment F						3.758	1.124	0.566	0.981
Treatment Prob(F)						0.0039	0.3705	0.7780	0.4606

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Get the Most Out of Every Corn Acre

Title No. 2:

Trial ID: 10GMOECA
Location: WESTERN BRANCH BIG E
Project ID:

Protocol ID: 10GMOECA
Study Director: Anthony F. Dobbels
Investigator: Dr. Mark M. Loux
Sponsor Contact: Caren Judge, BASF

Pest Code

SETFA, *Setaria faberi*, = US
AMBTR, *Ambrosia trifida*, = US
AMBEL, *Ambrosia artemisiifolia*, = US
CHEAL, *Chenopodium album*, = US
ABUTH, *Abutilon theophrasti*, = US
CERCZM, *Cercospora zea-maydis*, = US
COLLGR, *Glomerella graminicola*, = US
HELMSP, *Helminthosporium* sp., = US

Crop Code

ZEAMX, BCOR, *Zea mays*, = US

Rating Type

CONTRO = control / burndown or knockdown
INFEST = infestation
SENESE = senescence

Rating Unit

% = percent

Plant-Eval Interval

31 DP-1 = 1 4/30/10
59 DP-1 = 1 4/30/10
94 DP-1 = 1 4/30/10
131 DP-1 = 1 4/30/10