

Application Description

A

Application Date: Jun-4-2010
Time of Day: 8:30 AM
Application Method: SPRAY
Application Timing: MPO
Application Placement: BROFOL
Air Temperature, Unit: 72.4 F
% Relative Humidity: 85.5
Wind Velocity, Unit: 4 MPH
Wind Direction: SW
Dew Presence (Y/N): Y yes
Soil Temperature, Unit: 68 F
Soil Moisture: WET
% Cloud Cover: 0
Next Rain Occurred On: Jun-4-2010

Crop Stage At Each Application

A

Crop 1 Code, BBCH Scale: GLXMA BSOY
Stage Scale Used: BBCH
Stage Majority, Percent: 12 100
Height, Unit: 6 IN
Height Minimum, Maximum: 5 6

Pest Stage At Each Application

A

Pest 1 Code, Type, Scale: AMBTR W
Stage Majority, Percent: 16 100
Height, Unit: 8 IN
Height Minimum, Maximum: 7 8
Density, Unit: 4 M2
Pest 2 Code, Type, Scale: CHEAL W
Stage Majority, Percent: 14 100
Height, Unit: 2 IN
Height Minimum, Maximum: 1 2
Density, Unit: 17.2 M2
Pest 3 Code, Type, Scale: SETFA W
Stage Majority, Percent: 13 100
Height, Unit: 6 IN
Height Minimum, Maximum: 5 6
Density, Unit: 53.2 M2
Pest 4 Code, Type, Scale: POLPY W
Stage Majority, Percent: 14 100
Height, Unit: 3 IN
Height Minimum, Maximum: 2 3
Density, Unit: 9.2 M2
Pest 5 Code, Type, Scale: ABUTH W
Stage Majority, Percent: 13 100
Height, Unit: 3 IN
Height Minimum, Maximum: 2 3
Density, Unit: 1.2 M2
Pest 6 Code, Type, Scale: AMARE W
Stage Majority, Percent: 14 100
Height, Unit: 2 IN
Height Minimum, Maximum: 1 2
Density, Unit: 9.2 M2
Pest 7 Code, Type, Scale: AMBEL W
Stage Majority, Percent: 14 100
Height, Unit: 3 IN
Height Minimum, Maximum: 2 3
Pest 8 Code, Type, Scale: SOLPT W
Stage Majority, Percent: 12 100
Height, Unit: 0.5 IN
Height Minimum, Maximum: 0.5 1
Density, Unit: 8 M2

Application Equipment

A

Appl. Equipment: Backpack
Equipment Type: SPRBAC
Operating Pressure, Unit: 52 PSI
Nozzle Type: DG
Nozzle Size: 8002
Nozzle Spacing, Unit: 18 IN
Boom Length, Unit: 6.67 FT
Boom Height, Unit: 18 IN
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 20 gal/ac
Mix Size, Unit: 0.33 gallons
Propellant: COMCO2

Ohio State University Horticulture and Crop Science

FLEXSTAR VS RESOURCE, COBRA OR CADET PLUS GLYPHOSATE; RHYTHM AND DAWN EFFICACY WHEN APPLIED POST

Title No. 2:
 Trial ID: 10POS1 Protocol ID: 10POS1
 Location: Western Branch Study Director: Bryan Reeb
 Project ID: 10POS1 Investigator: Dr. Mark M. Loux
 Sponsor Contact: DANE BOWERS, JAMES BARRENTINE

Pest Type					W Weed	W Weed
Pest Code					SETFA	AMBTR
Pest Scientific Name					Setaria faberi	Ambrosia trifi>
Pest Name					Giant foxtail	Giant ragweed
Crop Code		GLXMA	GLXMA	GLXMA		
BBCH Scale		BSOY	BSOY	BSOY		
Crop Scientific Name		Glycine max	Glycine max	Glycine max		
Crop Name		Soybean	Soybean	Soybean		
Rating Date		Jun-10-2010	Jun-10-2010	Jun-18-2010	Jun-18-2010	Jun-18-2010
Rating Type		PHYCHL	PHYLMA	PHYLMA	CONTROL	CONTROL
Rating Unit		%	%	%	%	%
Number of Subsamples		1	1	1	1	1
Days After First/Last Applic.		6 6	6 6	14 14	14 14	14 14
Trt-Eval Interval		6 DA-A	6 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval		35 DP-1	35 DP-1	43 DP-1	43 DP-1	43 DP-1
Days After Emergence		23 DE-	23 DE-	31 DE-	31 DE-	31 DE-
Number of Decimals		0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Unit	Other Rate	Other Unit	Appl Code	1	2	3	4	5
1	Flexstar GT	3.31	LBAE/GAL	38 oz/a		A	3	4	5	98	98
1	N-pak ams	100 %		2 qt/a		A					
1	Mso	100 %		0.4 qt/a		A					
2	Roundup Power Max	4.5	LBAE/GAL	22 oz/a		A	2	3	4	93	88
2	Resource	0.86	LBA/GAL	3 oz/a		A					
2	N-pak ams	100 %		2 qt/a		A					
2	Mso	100 %		0.4 qt/a		A					
3	Roundup Power Max	4.5	LBAE/GAL	22 oz/a		A	2	2	3	98	84
3	Cadet	0.91	LBA/GAL	0.5 oz/a		A					
3	N-pak ams	100 %		2 qt/a		A					
3	Mso	100 %		0.4 qt/a		A					
4	Flexstar GT	3.31	LBAE/GAL	48 oz/a		A	2	5	6	97	95
4	N-pak ams	100 %		2 qt/a		A					
4	Mso	100 %		0.4 qt/a		A					
5	Rhythm	1.88	LB/GAL	10 oz/a		A	1	1	1	88	62
5	N-pak ams	100 %		2 qt/a		A					
5	Select	2	LBA/GAL	8 oz/a		A					
6	Rhythm	1.88	LB/GAL	20 oz/a		A	2	2	2	93	73
6	N-pak ams	100 %		2 qt/a		A					
6	Select	2	LBA/GAL	8 oz/a		A					
7	Rhythm	1.88	LB/GAL	40 oz/a		A	2	4	4	100	100
7	N-pak ams	100 %		2 qt/a		A					
7	Select	2	LBA/GAL	8 oz/a		A					
8	Rhythm	1.88	LB/GAL	10 oz/a		A	2	3	2	100	93
8	Glyfos X-tra	3	LBAE/GAL	32 oz/a		A					
9	Rhythm	1.88	LB/GAL	20 oz/a		A	2	3	4	100	92
9	Glyfos X-tra	3	LBAE/GAL	32 oz/a		A					
10	Dawn	2	LB/GAL	24 oz/a		A	2	4	2	98	88
10	Nis	100 %		0.2 qt/a		A					
10	Select	2	LBA/GAL	8 oz/a		A					
11	Flexstar	1.88	LBA/GAL	10 oz/a		A	2	3	2	98	72
11	N-pak ams	100 %		2 qt/a		A					
11	Select	2	LBA/GAL	8 oz/a		A					
12	Flexstar	1.88	LBA/GAL	20 oz/a		A	3	5	3	98	93
12	N-pak ams	100 %		2 qt/a		A					
12	Select	2	LBA/GAL	8 oz/a		A					

Pest Type								W Weed	W Weed			
Pest Code								SETFA	AMBTR			
Pest Scientific Name								Setaria faberi	Ambrosia trifi>			
Pest Name								Giant foxtail	Giant ragweed			
Crop Code		GLXMA	GLXMA	GLXMA								
BBCH Scale		BSOY	BSOY	BSOY								
Crop Scientific Name		Glycine max	Glycine max	Glycine max								
Crop Name		Soybean	Soybean	Soybean								
Rating Date		Jun-10-2010	Jun-10-2010	Jun-18-2010			Jun-18-2010	Jun-18-2010				
Rating Type		PHYCHL	PHYLMA	PHYLMA			CONTROL	CONTROL				
Rating Unit		%	%	%			%	%				
Number of Subsamples		1	1	1			1	1				
Days After First/Last Applic.		6 6	6 6	14 14			14 14	14 14				
Trt-Eval Interval		6 DA-A	6 DA-A	14 DA-A			14 DA-A	14 DA-A				
Plant-Eval Interval		35 DP-1	35 DP-1	43 DP-1			43 DP-1	43 DP-1				
Days After Emergence		23 DE-	23 DE-	31 DE-			31 DE-	31 DE-				
Number of Decimals		0	0	0			0	0				
Trt No.	Treatment Name	Form Conc	Form Unit	Other Rate	Other Rate	Appl Unit	Code	1	2	3	4	5
13	Roundup Power Max	4.5 LBAE/GAL		22 oz/a		A		1	0	0	98	93
	13 N-pak ams	100 %		2 qt/a		A						
14	UTC							0	0	0	0	0
LSD (P=.05)								0.8	1.2	2.0	5.8	13.9
Standard Deviation								0.5	0.7	1.2	3.4	8.3
CV								24.61	25.45	44.14	3.81	10.28
Bartlett's X2								0.0	4.195	3.532	13.151	18.725
P(Bartlett's X2)								1.00	0.65	0.939	0.215	0.066
Replicate F								0.317	2.380	1.942	2.131	0.417
Replicate Prob(F)								0.7311	0.1124	0.1636	0.1390	0.6633
Treatment F								7.780	13.877	6.725	173.887	28.728
Treatment Prob(F)								0.0001	0.0001	0.0001	0.0001	0.0001

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBEL	CHEAL	AMARE	ABUTH
Pest Scientific Name	Ambrosia artem>	Chenopodium al>	Amaranthus ret>	Abutilon theop>
Pest Name	Common ragweed	Common lambsqu>	Redroot pigweed	Velvetleaf
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jun-18-2010	Jun-18-2010	Jun-18-2010	Jun-18-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	14 14	14 14	14 14	14 14
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	43 DP-1	43 DP-1	43 DP-1	43 DP-1
Days After Emergence	31 DE-	31 DE-	31 DE-	31 DE-
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Unit	Other Rate	Other Unit	Appl Code	6	7	8	9
1	Flexstar GT	3.31	LBAE/GAL	38 oz/a		A	100	100	100	100
1	N-pak ams	100 %		2 qt/a		A				
1	Mso	100 %		0.4 qt/a		A				
2	Roundup Power Max	4.5	LBAE/GAL	22 oz/a		A	100	98	98	99
2	Resource	0.86	LBA/GAL	3 oz/a		A				
2	N-pak ams	100 %		2 qt/a		A				
2	Mso	100 %		0.4 qt/a		A				
3	Roundup Power Max	4.5	LBAE/GAL	22 oz/a		A	98	100	90	95
3	Cadet	0.91	LBA/GAL	0.5 oz/a		A				
3	N-pak ams	100 %		2 qt/a		A				
3	Mso	100 %		0.4 qt/a		A				
4	Flexstar GT	3.31	LBAE/GAL	48 oz/a		A	100	96	100	100
4	N-pak ams	100 %		2 qt/a		A				
4	Mso	100 %		0.4 qt/a		A				
5	Rhythm	1.88	LB/GAL	10 oz/a		A	80	65	95	100
5	N-pak ams	100 %		2 qt/a		A				
5	Select	2	LBA/GAL	8 oz/a		A				
6	Rhythm	1.88	LB/GAL	20 oz/a		A	100	68	100	73
6	N-pak ams	100 %		2 qt/a		A				
6	Select	2	LBA/GAL	8 oz/a		A				
7	Rhythm	1.88	LB/GAL	40 oz/a		A	100	88	100	93
7	N-pak ams	100 %		2 qt/a		A				
7	Select	2	LBA/GAL	8 oz/a		A				
8	Rhythm	1.88	LB/GAL	10 oz/a		A	100	96	100	100
8	Glyphos X-tra	3	LBAE/GAL	32 oz/a		A				
9	Rhythm	1.88	LB/GAL	20 oz/a		A	97	99	100	100
9	Glyphos X-tra	3	LBAE/GAL	32 oz/a		A				
10	Dawn	2	LB/GAL	24 oz/a		A	100	67	100	73
10	Nis	100 %		0.2 qt/a		A				
10	Select	2	LBA/GAL	8 oz/a		A				
11	Flexstar	1.88	LBA/GAL	10 oz/a		A	100	79	100	80
11	N-pak ams	100 %		2 qt/a		A				
11	Select	2	LBA/GAL	8 oz/a		A				
12	Flexstar	1.88	LBA/GAL	20 oz/a		A	100	82	100	90
12	N-pak ams	100 %		2 qt/a		A				
12	Select	2	LBA/GAL	8 oz/a		A				

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBEL	CHEAL	AMARE	ABUTH
Pest Scientific Name	Ambrosia artem>	Chenopodium al>	Amaranthus ret>	Abutilon theop>
Pest Name	Common ragweed	Common lambsqu>	Redroot pigweed	Velvetleaf
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jun-18-2010	Jun-18-2010	Jun-18-2010	Jun-18-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	14 14	14 14	14 14	14 14
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	43 DP-1	43 DP-1	43 DP-1	43 DP-1
Days After Emergence	31 DE-	31 DE-	31 DE-	31 DE-
Number of Decimals	0	0	0	0
Trt Treatment	Form Form	Other Other	Appl	
No. Name	Conc Unit	Rate Rate	Unit Code	6
				7
				8
				9
13 Roundup Power Max	4.5 LBAE/GAL	22 oz/a	A	100
13 N-pak ams	100 %	2 qt/a	A	94
14 UTC				100
				0
LSD (P=.05)				0
Standard Deviation				8.9
CV				12.0
Bartlett's X2				4.6
P(Bartlett's X2)				17.3
Replicate F				5.3
Replicate Prob(F)				7.2
Treatment F				8.84
Treatment Prob(F)				3.0
				11.96
				5.573
				17.459
				8.902
				11.413
				0.062
				0.065
				0.031*
				0.076
				0.200
				1.050
				1.390
				0.025
				0.8203
				0.3643
				0.2669
				76.555
				41.518
				279.630
				20.174
				0.0001
				0.0001
				0.0001
				0.0001

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	POLPY	SETFA	AMBTR	AMBEL
Pest Scientific Name	Polygonum pens>	Setaria faberi	Ambrosia trifi>	Ambrosia artem>
Pest Name	Pennsylvania s>	Giant foxtail	Giant ragweed	Common ragweed
Crop Code		GLXMA		
BBCH Scale		BSOY		
Crop Scientific Name		Glycine max		
Crop Name		Soybean		
Rating Date	Jun-18-2010	Jul-1-2010	Jul-1-2010	Jul-1-2010
Rating Type	CONTROL	PHYGEN	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	14 14	27 27	27 27	27 27
Trt-Eval Interval	14 DA-A	27 DA-A	27 DA-A	27 DA-A
Plant-Eval Interval	43 DP-1	56 DP-1	56 DP-1	56 DP-1
Days After Emergence	31 DE-	44 DE-	44 DE-	44 DE-
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Unit	Other Rate	Other Unit	Appl Code	10	11	12	13	14
1	Flexstar GT	3.31	LBAE/GAL	38 oz/a		A	98	0	97	98	100
1	N-pak ams	100 %		2 qt/a		A					
1	Mso	100 %		0.4 qt/a		A					
2	Roundup Power Max	4.5	LBAE/GAL	22 oz/a		A	98	0	93	72	100
2	Resource	0.86	LBA/GAL	3 oz/a		A					
2	N-pak ams	100 %		2 qt/a		A					
2	Mso	100 %		0.4 qt/a		A					
3	Roundup Power Max	4.5	LBAE/GAL	22 oz/a		A	95	0	94	73	100
3	Cadet	0.91	LBA/GAL	0.5 oz/a		A					
3	N-pak ams	100 %		2 qt/a		A					
3	Mso	100 %		0.4 qt/a		A					
4	Flexstar GT	3.31	LBAE/GAL	48 oz/a		A	96	0	96	95	100
4	N-pak ams	100 %		2 qt/a		A					
4	Mso	100 %		0.4 qt/a		A					
5	Rhythm	1.88	LB/GAL	10 oz/a		A	59	0	93	63	92
5	N-pak ams	100 %		2 qt/a		A					
5	Select	2	LBA/GAL	8 oz/a		A					
6	Rhythm	1.88	LB/GAL	20 oz/a		A	69	0	94	75	100
6	N-pak ams	100 %		2 qt/a		A					
6	Select	2	LBA/GAL	8 oz/a		A					
7	Rhythm	1.88	LB/GAL	40 oz/a		A	93	0	95	97	100
7	N-pak ams	100 %		2 qt/a		A					
7	Select	2	LBA/GAL	8 oz/a		A					
8	Rhythm	1.88	LB/GAL	10 oz/a		A	94	0	98	98	100
8	Glyphos X-tra	3	LBAE/GAL	32 oz/a		A					
9	Rhythm	1.88	LB/GAL	20 oz/a		A	90	0	99	100	100
9	Glyphos X-tra	3	LBAE/GAL	32 oz/a		A					
10	Dawn	2	LB/GAL	24 oz/a		A	63	0	99	88	100
10	Nis	100 %		0.2 qt/a		A					
10	Select	2	LBA/GAL	8 oz/a		A					
11	Flexstar	1.88	LBA/GAL	10 oz/a		A	46	0	99	68	97
11	N-pak ams	100 %		2 qt/a		A					
11	Select	2	LBA/GAL	8 oz/a		A					
12	Flexstar	1.88	LBA/GAL	20 oz/a		A	65	0	98	85	100
12	N-pak ams	100 %		2 qt/a		A					
12	Select	2	LBA/GAL	8 oz/a		A					

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	POLPY	SETFA	AMBTR	AMBEL
Pest Scientific Name	Polygonum pens>	Setaria faberi	Ambrosia trifi>	Ambrosia artem>
Pest Name	Pennsylvania s>	Giant foxtail	Giant ragweed	Common ragweed
Crop Code		GLXMA		
BBCH Scale		BSOY		
Crop Scientific Name		Glycine max		
Crop Name		Soybean		
Rating Date	Jun-18-2010	Jul-1-2010	Jul-1-2010	Jul-1-2010
Rating Type	CONTROL	PHYGEN	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	14 14	27 27	27 27	27 27
Trt-Eval Interval	14 DA-A	27 DA-A	27 DA-A	27 DA-A
Plant-Eval Interval	43 DP-1	56 DP-1	56 DP-1	56 DP-1
Days After Emergence	31 DE-	44 DE-	44 DE-	44 DE-
Number of Decimals	0	0	0	0
Trt Treatment	Form Form	Other Other	Appl	
No. Name	Conc Unit	Rate Rate	Unit Code	
				10
				11
				12
				13
				14
13 Roundup Power Max	4.5 LBAE/GAL	22 oz/a	A	84
13 N-pak ams	100 %	2 qt/a	A	0
				96
				82
				100
14 UTC				0
				0
				0
				0
				0
LSD (P=.05)				10.9
Standard Deviation				6.4
CV				8.57
Bartlett's X2				10.184
P(Bartlett's X2)				0.424
				0.0
				0.0
				3.8
				2.3
				2.52
				7.88
				14.118
				0.152
				0.697
				0.657
				0.227
				0.697
Replicate F				3.373
Replicate Prob(F)				0.0528
Treatment F				55.100
Treatment Prob(F)				0.0001
				0.000
				1.0000
				0.854
				0.4372
				392.933
				0.0001
				1.396
				0.2655
				51.967
				0.0001
				1.830
				0.1805
				343.089
				0.0001

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMARE	ABUTH	POLPY	SETFA
Pest Scientific Name	Chenopodium al>	Amaranthus ret>	Abutilon theop>	Polygonum pens>	Setaria faberi
Pest Name	Common lambsqu>	Redroot pigweed	Velvetleaf	Pennsylvania s>	Giant foxtail
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jul-1-2010	Jul-1-2010	Jul-1-2010	Jul-1-2010	Jul-9-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	27 27	27 27	27 27	27 27	35 35
Trt-Eval Interval	27 DA-A	27 DA-A	27 DA-A	27 DA-A	35 DA-A
Plant-Eval Interval	56 DP-1	56 DP-1	56 DP-1	56 DP-1	64 DP-1
Days After Emergence	44 DE-	44 DE-	44 DE-	44 DE-	52 DE-
Number of Decimals	0	0	0	0	0

Trt	Treatment	Form Form	Other Other	Appl	15	16	17	18	19
No.	Name	Conc Unit	Rate Rate	Unit Code					
1	Flexstar GT	3.31 LBAE/GAL	38 oz/a	A	98	100	100	99	100
1	N-pak ams	100 %	2 qt/a	A					
1	Mso	100 %	0.4 qt/a	A					
2	Roundup Power Max	4.5 LBAE/GAL	22 oz/a	A	92	98	100	95	98
2	Resource	0.86 LBA/GAL	3 oz/a	A					
2	N-pak ams	100 %	2 qt/a	A					
2	Mso	100 %	0.4 qt/a	A					
3	Roundup Power Max	4.5 LBAE/GAL	22 oz/a	A	96	93	98	100	100
3	Cadet	0.91 LBA/GAL	0.5 oz/a	A					
3	N-pak ams	100 %	2 qt/a	A					
3	Mso	100 %	0.4 qt/a	A					
4	Flexstar GT	3.31 LBAE/GAL	48 oz/a	A	92	97	98	96	100
4	N-pak ams	100 %	2 qt/a	A					
4	Mso	100 %	0.4 qt/a	A					
5	Rhythm	1.88 LB/GAL	10 oz/a	A	68	100	98	66	95
5	N-pak ams	100 %	2 qt/a	A					
5	Select	2 LBA/GAL	8 oz/a	A					
6	Rhythm	1.88 LB/GAL	20 oz/a	A	68	100	98	78	99
6	N-pak ams	100 %	2 qt/a	A					
6	Select	2 LBA/GAL	8 oz/a	A					
7	Rhythm	1.88 LB/GAL	40 oz/a	A	82	100	100	95	97
7	N-pak ams	100 %	2 qt/a	A					
7	Select	2 LBA/GAL	8 oz/a	A					
8	Rhythm	1.88 LB/GAL	10 oz/a	A	92	100	100	95	100
8	Glyphos X-tra	3 LBAE/GAL	32 oz/a	A					
9	Rhythm	1.88 LB/GAL	20 oz/a	A	97	100	100	100	100
9	Glyphos X-tra	3 LBAE/GAL	32 oz/a	A					
10	Dawn	2 LB/GAL	24 oz/a	A	67	100	93	76	100
10	Nis	100 %	0.2 qt/a	A					
10	Select	2 LBA/GAL	8 oz/a	A					
11	Flexstar	1.88 LBA/GAL	10 oz/a	A	73	100	96	63	100
11	N-pak ams	100 %	2 qt/a	A					
11	Select	2 LBA/GAL	8 oz/a	A					
12	Flexstar	1.88 LBA/GAL	20 oz/a	A	75	100	98	72	100
12	N-pak ams	100 %	2 qt/a	A					
12	Select	2 LBA/GAL	8 oz/a	A					

Pest Type												
Pest Code												
Pest Scientific Name												
Pest Name												
Crop Code												
BBCH Scale												
Crop Scientific Name												
Crop Name												
Rating Date												
Rating Type												
Rating Unit												
Number of Subsamples												
Days After First/Last Applic.												
Trt-Eval Interval												
Plant-Eval Interval												
Days After Emergence												
Number of Decimals												
Trt No.	Treatment Name	Form Conc	Form Unit	Other Rate	Other Rate	Appl Unit	Code	15	16	17	18	19
	13 Roundup Power Max	4.5 LBAE/GAL		22 oz/a		A		83	98	100	99	99
	13 N-pak ams	100 %		2 qt/a		A						
	14 UTC							0	0	0	0	0
	LSD (P=.05)							11.2	3.5	3.8	9.2	2.8
	Standard Deviation							6.7	2.1	2.3	5.4	1.7
	CV							8.61	2.26	2.47	6.71	1.8
	Bartlett's X2							11.221	1.89	1.52	15.944	10.038
	P(Bartlett's X2)							0.425	0.596	0.958	0.101	0.074
	Replicate F							0.255	0.050	2.281	1.203	1.365
	Replicate Prob(F)							0.7765	0.9517	0.1223	0.3192	0.2730
	Treatment F							42.247	488.363	409.730	73.639	771.374
	Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001	0.0001

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	AMBEL	CHEAL	AMARE
Pest Scientific Name	Ambrosia trifi>	Ambrosia artem>	Chenopodium al>	Amaranthus ret>
Pest Name	Giant ragweed	Common ragweed	Common lambsqu>	Redroot pigweed
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jul-9-2010	Jul-9-2010	Jul-9-2010	Jul-9-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	35 35	35 35	35 35	35 35
Trt-Eval Interval	35 DA-A	35 DA-A	35 DA-A	35 DA-A
Plant-Eval Interval	64 DP-1	64 DP-1	64 DP-1	64 DP-1
Days After Emergence	52 DE-	52 DE-	52 DE-	52 DE-
Number of Decimals	0	0	0	0

Trt	Treatment	Form	Form	Other	Other	Appl	20	21	22	23
No.	Name	Conc	Unit	Rate	Rate	Unit Code				
1	Flexstar GT	3.31	LBAE/GAL	38	oz/a	A	93	100	100	100
1	N-pak ams	100	%	2	qt/a	A				
1	Mso	100	%	0.4	qt/a	A				
2	Roundup Power Max	4.5	LBAE/GAL	22	oz/a	A	62	100	100	100
2	Resource	0.86	LBA/GAL	3	oz/a	A				
2	N-pak ams	100	%	2	qt/a	A				
2	Mso	100	%	0.4	qt/a	A				
3	Roundup Power Max	4.5	LBAE/GAL	22	oz/a	A	65	100	100	100
3	Cadet	0.91	LBA/GAL	0.5	oz/a	A				
3	N-pak ams	100	%	2	qt/a	A				
3	Mso	100	%	0.4	qt/a	A				
4	Flexstar GT	3.31	LBAE/GAL	48	oz/a	A	98	100	100	100
4	N-pak ams	100	%	2	qt/a	A				
4	Mso	100	%	0.4	qt/a	A				
5	Rhythm	1.88	LB/GAL	10	oz/a	A	55	100	100	100
5	N-pak ams	100	%	2	qt/a	A				
5	Select	2	LBA/GAL	8	oz/a	A				
6	Rhythm	1.88	LB/GAL	20	oz/a	A	70	100	97	100
6	N-pak ams	100	%	2	qt/a	A				
6	Select	2	LBA/GAL	8	oz/a	A				
7	Rhythm	1.88	LB/GAL	40	oz/a	A	95	100	100	100
7	N-pak ams	100	%	2	qt/a	A				
7	Select	2	LBA/GAL	8	oz/a	A				
8	Rhythm	1.88	LB/GAL	10	oz/a	A	97	100	100	100
8	Glyfos X-tra	3	LBAE/GAL	32	oz/a	A				
9	Rhythm	1.88	LB/GAL	20	oz/a	A	100	100	100	100
9	Glyfos X-tra	3	LBAE/GAL	32	oz/a	A				
10	Dawn	2	LB/GAL	24	oz/a	A	77	100	97	100
10	Nis	100	%	0.2	qt/a	A				
10	Select	2	LBA/GAL	8	oz/a	A				
11	Flexstar	1.88	LBA/GAL	10	oz/a	A	55	100	100	100
11	N-pak ams	100	%	2	qt/a	A				
11	Select	2	LBA/GAL	8	oz/a	A				
12	Flexstar	1.88	LBA/GAL	20	oz/a	A	80	100	97	100
12	N-pak ams	100	%	2	qt/a	A				
12	Select	2	LBA/GAL	8	oz/a	A				

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	AMBEL	CHEAL	AMARE
Pest Scientific Name	Ambrosia trifi>	Ambrosia artem>	Chenopodium al>	Amaranthus ret>
Pest Name	Giant ragweed	Common ragweed	Common lambsqu>	Redroot pigweed
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jul-9-2010	Jul-9-2010	Jul-9-2010	Jul-9-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	35 35	35 35	35 35	35 35
Trt-Eval Interval	35 DA-A	35 DA-A	35 DA-A	35 DA-A
Plant-Eval Interval	64 DP-1	64 DP-1	64 DP-1	64 DP-1
Days After Emergence	52 DE-	52 DE-	52 DE-	52 DE-
Number of Decimals	0	0	0	0
Trt Treatment No. Name	Form Form Conc Unit	Other Other Rate Rate	Appl Unit Code	
				20
				21
				22
				23
13 Roundup Power Max	4.5 LBAE/GAL	22 oz/a	A	87
13 N-pak ams	100 %	2 qt/a	A	100
14 UTC				0
LSD (P=.05)				16.3
Standard Deviation				9.7
CV				13.15
Bartlett's X2				16.562
P(Bartlett's X2)				0.122
Replicate F				0.006
Replicate Prob(F)				0.9937
Treatment F				22.656
Treatment Prob(F)				0.0001
				0.000
				1.0000
				0.6233
				570.519
				0.0001
				1.0000

Pest Type	W Weed	W Weed
Pest Code	ABUTH	POLPY
Pest Scientific Name	Abutilon theop>	Polygonum pens>
Pest Name	Velvetleaf	Pennsylvania s>
Crop Code		
BBCH Scale		
Crop Scientific Name		
Crop Name		
Rating Date	Jul-9-2010	Jul-9-2010
Rating Type	CONTROL	CONTROL
Rating Unit	%	%
Number of Subsamples	1	1
Days After First/Last Applic.	35 35	35 35
Trt-Eval Interval	35 DA-A	35 DA-A
Plant-Eval Interval	64 DP-1	64 DP-1
Days After Emergence	52 DE-	52 DE-
Number of Decimals	0	0

Trt No.	Treatment Name	Form Conc	Form Unit	Other Rate	Other Unit	Appl Unit Code	24	25
1	Flexstar GT	3.31	LBAE/GAL	38	oz/a	A	100	100
1	N-pak ams	100	%	2	qt/a	A		
1	Mso	100	%	0.4	qt/a	A		
2	Roundup Power Max	4.5	LBAE/GAL	22	oz/a	A	100	100
2	Resource	0.86	LBA/GAL	3	oz/a	A		
2	N-pak ams	100	%	2	qt/a	A		
2	Mso	100	%	0.4	qt/a	A		
3	Roundup Power Max	4.5	LBAE/GAL	22	oz/a	A	100	100
3	Cadet	0.91	LBA/GAL	0.5	oz/a	A		
3	N-pak ams	100	%	2	qt/a	A		
3	Mso	100	%	0.4	qt/a	A		
4	Flexstar GT	3.31	LBAE/GAL	48	oz/a	A	100	100
4	N-pak ams	100	%	2	qt/a	A		
4	Mso	100	%	0.4	qt/a	A		
5	Rhythm	1.88	LB/GAL	10	oz/a	A	100	71
5	N-pak ams	100	%	2	qt/a	A		
5	Select	2	LBA/GAL	8	oz/a	A		
6	Rhythm	1.88	LB/GAL	20	oz/a	A	100	89
6	N-pak ams	100	%	2	qt/a	A		
6	Select	2	LBA/GAL	8	oz/a	A		
7	Rhythm	1.88	LB/GAL	40	oz/a	A	100	100
7	N-pak ams	100	%	2	qt/a	A		
7	Select	2	LBA/GAL	8	oz/a	A		
8	Rhythm	1.88	LB/GAL	10	oz/a	A	100	100
8	Glyphos X-tra	3	LBAE/GAL	32	oz/a	A		
9	Rhythm	1.88	LB/GAL	20	oz/a	A	100	100
9	Glyphos X-tra	3	LBAE/GAL	32	oz/a	A		
10	Dawn	2	LB/GAL	24	oz/a	A	97	77
10	Nis	100	%	0.2	qt/a	A		
10	Select	2	LBA/GAL	8	oz/a	A		
11	Flexstar	1.88	LBA/GAL	10	oz/a	A	100	67
11	N-pak ams	100	%	2	qt/a	A		
11	Select	2	LBA/GAL	8	oz/a	A		
12	Flexstar	1.88	LBA/GAL	20	oz/a	A	100	75
12	N-pak ams	100	%	2	qt/a	A		
12	Select	2	LBA/GAL	8	oz/a	A		

Pest Type				W Weed		W Weed
Pest Code				ABUTH		POLPY
Pest Scientific Name				Abutilon theop>		Polygonum pens>
Pest Name				Velvetleaf		Pennsylvania s>
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date				Jul-9-2010		Jul-9-2010
Rating Type				CONTROL		CONTROL
Rating Unit				%		%
Number of Subsamples				1		1
Days After First/Last Applic.				35 35		35 35
Trt-Eval Interval				35 DA-A		35 DA-A
Plant-Eval Interval				64 DP-1		64 DP-1
Days After Emergence				52 DE-		52 DE-
Number of Decimals				0		0
Trt No.	Treatment Name	Form Conc	Form Unit	Other Rate	Other Rate	Appl Unit Code
					24	25
13	Roundup Power Max	4.5 LBAE/GAL		22 oz/a		A
	13 N-pak ams	100 %		2 qt/a		A
					100	100
14	UTC				0	0
LSD (P=.05)					1.3	19.5
Standard Deviation					0.8	11.5
CV					0.83	13.71
Bartlett's X2					0.0	5.447
P(Bartlett's X2)					.	0.244
Replicate F					1.000	0.778
Replicate Prob(F)					0.3816	0.4712
Treatment F					3585.539	16.842
Treatment Prob(F)					0.0001	0.0001

Ohio State University Horticulture and Crop Science

FLEXSTAR VS RESOURCE, COBRA OR CADET PLUS GLYPHOSATE; RHYTHM AND DAWN EFFICACY WHEN APPLIED POST

Title No. 2:

Trial ID: 10POS1 Protocol ID: 10POS1
Location: Western Branch Study Director: Bryan Reeb
Project ID: 10POS1 Investigator: Dr. Mark M. Loux
Sponsor Contact: DANE BOWERS, JAMES BARRENTINE

Pest Type

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

Pest Code

SETFA, Setaria faberi, = US
AMBTR, Ambrosia trifida, = US
AMBEL, Ambrosia artemisiifolia, = US
CHEAL, Chenopodium album, = US
AMARE, Amaranthus retroflexus, = US
ABUTH, Abutilon theophrasti, = US
POLPY, Polygonum pensylvanicum, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

PHYCHL = phytotoxicity - chlorosis
PHYLMA = phytotoxicity - leaf malformation
PHYGEN = phytotoxicity - general / injury

Rating Unit

% = percent

Plant-Eval Interval

35 DP-1 = 1 May-6-2010
43 DP-1 = 1 May-6-2010
56 DP-1 = 1 May-6-2010
64 DP-1 = 1 May-6-2010