

Ohio State University Horticulture and Crop Science

MARESTAIL CONTROL

Title No. 2:
 Trial ID: 10NTS4 Protocol ID: 10NTS4
 Location: Western Branch Study Director: Bryan Reeb
 Project ID: 10NTS4 Investigator: Dr. Mark M. Loux
 Sponsor Contact:

General Trial Information

Study Director: Bryan Reeb
Investigator: Dr. Mark M. Loux

Trial Location

City: South Charleston **Latitude of LL Corner °:** 39.86186 N
State/Prov.: Ohio **Longitude of LL Corner °:** 83.67713 W
Postal Code: 45368 **Altitude of LL Corner, Unit:** 1097.00 FT
Country: USA

Personnel

Study Director: Bryan Reeb
Investigator: Dr. Mark M. Loux

Crop Description

Crop 1: GLXMA Glycine max Soybean
 Variety: AG3803 **Description:** RR
 BBCH Scale: BSOY **Planting Date:** Apr-29-2010
Planting Method: SEEDED seeded **Rate, Unit:** 196000 S/A
 Depth, Unit: 0.75 IN
Row Spacing, Unit: 15 IN
 Seed Bed: NO-TIL
Soil Moisture: GOOD good **Emergence Date:** May-7-2010

Pest Description

- Pest 1 Type:** W **Code:** POAAN Poa annua
 Common Name: Annual bluegrass
- Pest 2 Type:** W **Code:** ERICA Conyza canadensis
 Common Name: horseweed
- Pest 3 Type:** W **Code:** TAROF Taraxacum officinale
 Common Name: Common dandelion
- Pest 4 Type:** W **Code:** CAPBP Capsella bursa-pastoris
 Common Name: Shepherd's purse
- Pest 5 Type:** W **Code:** VERAR Veronica arvensis
 Common Name: Corn speedwell
- Pest 6 Type:** W **Code:** ERPSS Erophila sp.
 Common Name: Whitlowgrass
- Pest 7 Type:** W **Code:** STEME Stellaria media
 Common Name: Common chickweed
- Pest 8 Type:** W **Code:** VERPG Veronica peregrina
 Common Name: Purslane speedwell

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:** NOTILL no-till
 Replications: 3 **Study Design:** RACOB Randomized Complete Block (RCB)
 Untreated Arrangement: INCLUDED single control randomized in each block

Maintenance

No.	Date	Maintenance Treatment Name	Rate	Unit
1.	Jun-8-2010	Roundup + AMS	22	oz

Comment: post overlay of whole trial
 beans were 6-8" 2 trifoliates

Soil Description

Description Name: 11-N

% OM: 1.3	Texture: SIL silt loam
pH: 6.8	Soil Name: Crosby
CEC: 10.7	Fert. Level: F fair
	Soil Drainage: F fair

Application Description

	A	B	C
Application Date:	Apr-14-2010	Apr-21-2010	Jun-8-2010
Time of Day:	10:00 AM	9:00 AM	10:00 A.M
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	14 EPP	7 EPP	POST
Application Placement:	BROFOL	BROFOL	BROFOL
Air Temperature, Unit:	55 F	53 F	60 F
% Relative Humidity:	54	49	65
Wind Velocity, Unit:	6 MPH	3 MPH	5 MPH
Wind Direction:	EAST	WSW	ESE
Dew Presence (Y/N):	N no	N no	N no
Soil Temperature, Unit:	50 F	50 F	62 F
Soil Moisture:	GOOD	DRY	GOOD
% Cloud Cover:	2	2	10
Next Rain Occurred On:	Apr-24-2010	Apr-24-2010	Jun-8-2010

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:			BBCH
Stage Majority, Percent:			13 100
Height, Unit:			12 IN
Height Minimum, Maximum:			10 12

Pest Stage At Each Application

	A		B		C	
Pest 1 Code, Type, Scale:	POAAN	W	POAAN	W	POAAN	W
Stage Majority, Percent:	19	100	65	100	65	100
Diameter, Unit:	6	IN	6	IN	10	IN
Height, Unit:	2	IN	2	IN	4	IN
Height Minimum, Maximum:	1	2	2	6	2	6
Density, Unit:	5	M2	5	M2	5	M2
Pest 2 Code, Type, Scale:	ERICA	W	ERICA	W	ERICA	W
Stage Majority, Percent:	19	100	19	100	19	100
Diameter, Unit:	2	IN	3	IN	12	IN
Height, Unit:	2	IN	3	IN	12	IN
Height Minimum, Maximum:	1	2	2	3	12	16
Density, Unit:	6	M2	6	M2	6	M2
Pest 3 Code, Type, Scale:	TAROF	W	TAROF	W	TAROF	W
Stage Majority, Percent:	65	100	65	100		
Diameter, Unit:	8	IN	10	IN		
Height, Unit:	2	IN	2	IN		
Height Minimum, Maximum:	1	2	1	2		
Density, Unit:	1	M2	1	M2		
Pest 4 Code, Type, Scale:	CAPBP	W	CAPBP	W	CAPBP	W
Stage Majority, Percent:	65	100	65	100		
Height, Unit:	16	IN	16	IN		
Height Minimum, Maximum:	12	16	14	16		
Density, Unit:	3	M2	3	M2		
Pest 5 Code, Type, Scale:	VERAR	W	VERAR	W	VERAR	W
Stage Majority, Percent:	17	100	19	100		
Diameter, Unit:	2	IN	4	IN		
Height, Unit:	4	IN				
Height Minimum, Maximum:	2	4				
Density, Unit:	0.33	M2	0.33	M2		
Pest 6 Code, Type, Scale:	ERPSS	W	ERPSS	W	ERPSS	W
Stage Majority, Percent:	65	100	65	100		
Diameter, Unit:	2	IN	2	IN		
Height, Unit:	2	IN	2	IN		
Height Minimum, Maximum:	1	2				
Density, Unit:	0.1	M2	0.2	M2		
Pest 7 Code, Type, Scale:	STEME	W	STEME	W	STEME	W
Stage Majority, Percent:	19	100	19	100		
Diameter, Unit:	12	IN	12	IN		
Height, Unit:	2	IN				
Height Minimum, Maximum:	1	2				
Density, Unit:	2	M2	2	M2		
Pest 8 Code, Type, Scale:	VERPG	W	VERPG	W	VERPG	W
Stage Majority, Percent:			19	100		
Diameter, Unit:			4	IN		
Density, Unit:			1	M2		

Application Equipment

	A	B	C
Appl. Equipment:	Backpack	Backpack	BACKPACK
Equipment Type:	SPRBAC	SPRBAC	SPRBAC
Operating Pressure, Unit:	52 PSI	52 PSI	53 PSI
Nozzle Type:	DG	DG	TEEJET DG
Nozzle Size:	8002	8002	11002
Nozzle Spacing, Unit:	18 IN	18 IN	18 IN
Boom Length, Unit:	6.67 FT	6.67 FT	10 FT
Boom Height, Unit:	18 IN	18 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	20 gal/ac	20 gal/ac	20 GPA
Mix Size, Unit:	0.33 gallons	0.33 gallons	3 Liters
Propellant:	COMCO2	COMCO2	CO2

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	POAAN	ERICA	CAPBP	VERPG
Pest Scientific Name	Poa annua	Conyza canadensis	Capsella bursa	Veronica peregrina
Pest Name	Annual bluegrass	Canada horseweed	Shepherd's purse	Purslane speed
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Apr-28-2010	Apr-28-2010	Apr-28-2010	Apr-28-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	14 7	14 7	14 7	14 7
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	-1 DP-1	-1 DP-1	-1 DP-1	-1 DP-1
Days After Emergence	-9 DE-	-9 DE-	-9 DE-	-9 DE-
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Unit	Other Rate	Other Unit	Appl Code	1	2	3	4
1	Sharpen	2.85 LBA/GAL		1 oz/a		A	3	87	92	77
1	Mso	100 %		0.8 qt/a		A				
2	Canopy EX @ 1.5oz						0	95	91	72
2	Classic	25 %AW/W		1.36 oz/a		A				
2	Express	75 %AW/W		0.2 oz/a		A				
2	Sharpen	2.85 LBA/GAL		1 oz/a		A				
2	Mso	100 %		0.8 qt/a		A				
3	Canopy	75 %AW/W		3 oz/a		A	0	97	97	87
3	Sharpen	2.85 LBA/GAL		1 oz/a		A				
3	Mso	100 %		0.8 qt/a		A				
4	Canopy EX @ 1.5oz						0	65	52	80
4	Classic	25 %AW/W		1.36 oz/a		A				
4	Express	75 %AW/W		0.2 oz/a		A				
4	2,4-D	4 LBA/GAL		1 pt/a		A				
4	Mso	100 %		0.8 qt/a		A				
5	Canopy	75 %AW/W		3 oz/a		A	0	73	63	57
5	2,4-D	4 LBA/GAL		1 pt/a		A				
5	Mso	100 %		0.8 qt/a		A				
6	Envive @ 3.5oz						20	83	97	78
6	Classic	25 %AW/W		1.28 oz/a		A				
6	Thifensulfuron	50 %AW/W		0.208 oz/a		A				
6	Valor SX	51 %AW/W		1.96 oz/a		A				
6	2,4-D	4 LBA/GAL		1 pt/a		A				
6	Mso	100 %		0.8 qt/a		A				
7	Canopy	75 %AW/W		3 oz/a		B	3	7	13	7
7	Sharpen	2.85 LBA/GAL		1 oz/a		B				
7	Mso	100 %		0.8 qt/a		B				
8	Envive @ 3.5oz						25	67	63	53
8	Classic	25 %AW/W		1.28 oz/a		B				
8	Thifensulfuron	50 %AW/W		0.208 oz/a		B				
8	Valor SX	51 %AW/W		1.96 oz/a		B				
8	2,4-D	4 LBA/GAL		1 pt/a		B				
8	Mso	100 %		0.8 qt/a		B				
9	Envive @ 3.5oz						27	50	47	23
9	Classic	25 %AW/W		1.28 oz/a		B				
9	Thifensulfuron	50 %AW/W		0.208 oz/a		B				
9	Valor SX	51 %AW/W		1.96 oz/a		B				
9	Roundup Power Max	4.5 LBAE/GAL		22 oz/a		B				
9	N-pak ams	100 %		2 qt/a		B				

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	POAAN	ERICA	CAPBP	VERPG
Pest Scientific Name	Poa annua	Conyza canaden>	Capsella bursa>	Veronica peregr>
Pest Name	Annual bluegra>	Canada horsewe>	Shepherd's pur>	Purslane speed>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Apr-28-2010	Apr-28-2010	Apr-28-2010	Apr-28-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	14 7	14 7	14 7	14 7
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Plant-Eval Interval	-1 DP-1	-1 DP-1	-1 DP-1	-1 DP-1
Days After Emergence	-9 DE-	-9 DE-	-9 DE-	-9 DE-
Number of Decimals	0	0	0	0
Trt Treatment	Form Form	Other Other	Appl	
No. Name	Conc Unit	Rate Rate	Unit Code	
10 UTC			C	
LSD (P=.05)				
Standard Deviation				
CV				
Bartlett's X2				
P(Bartlett's X2)				
Replicate F				
Replicate Prob(F)				
Treatment F				
Treatment Prob(F)				

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	TAROF	STEME	POAAN	ERICA
Pest Scientific Name	Taraxacum offi>	Stellaria media	Poa annua	Conyza canadens>
Pest Name	Common dandeli>	Common chickwe>	Annual bluegra>	Canada horsewe>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Apr-28-2010	Apr-28-2010	May-24-2010	May-24-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	14 7	14 7	40 33	40 33
Trt-Eval Interval	14 DA-A	14 DA-A	40 DA-A	40 DA-A
Plant-Eval Interval	-1 DP-1	-1 DP-1	25 DP-1	25 DP-1
Days After Emergence	-9 DE-	-9 DE-	17 DE-	17 DE-
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Unit	Other Rate	Other Unit	Appl Code	5	6	7	8
1	Sharpen	2.85 LBA/GAL		1 oz/a		A	52	60	0	95
1	Mso	100 %		0.8 qt/a		A				
2	Canopy EX @ 1.5oz						85	89	0	92
2	Classic	25 %AW/W		1.36 oz/a		A				
2	Express	75 %AW/W		0.2 oz/a		A				
2	Sharpen	2.85 LBA/GAL		1 oz/a		A				
2	Mso	100 %		0.8 qt/a		A				
3	Canopy	75 %AW/W		3 oz/a		A	70	93	0	100
3	Sharpen	2.85 LBA/GAL		1 oz/a		A				
3	Mso	100 %		0.8 qt/a		A				
4	Canopy EX @ 1.5oz						53	51	0	97
4	Classic	25 %AW/W		1.36 oz/a		A				
4	Express	75 %AW/W		0.2 oz/a		A				
4	2,4-D	4 LBA/GAL		1 pt/a		A				
4	Mso	100 %		0.8 qt/a		A				
5	Canopy	75 %AW/W		3 oz/a		A	57	71	0	100
5	2,4-D	4 LBA/GAL		1 pt/a		A				
5	Mso	100 %		0.8 qt/a		A				
6	Envive @ 3.5oz						57	87	0	87
6	Classic	25 %AW/W		1.28 oz/a		A				
6	Thifensulfuron	50 %AW/W		0.208 oz/a		A				
6	Valor SX	51 %AW/W		1.96 oz/a		A				
6	2,4-D	4 LBA/GAL		1 pt/a		A				
6	Mso	100 %		0.8 qt/a		A				
7	Canopy	75 %AW/W		3 oz/a		B	7	3	0	67
7	Sharpen	2.85 LBA/GAL		1 oz/a		B				
7	Mso	100 %		0.8 qt/a		B				
8	Envive @ 3.5oz						63	53	0	100
8	Classic	25 %AW/W		1.28 oz/a		B				
8	Thifensulfuron	50 %AW/W		0.208 oz/a		B				
8	Valor SX	51 %AW/W		1.96 oz/a		B				
8	2,4-D	4 LBA/GAL		1 pt/a		B				
8	Mso	100 %		0.8 qt/a		B				
9	Envive @ 3.5oz						57	33	100	90
9	Classic	25 %AW/W		1.28 oz/a		B				
9	Thifensulfuron	50 %AW/W		0.208 oz/a		B				
9	Valor SX	51 %AW/W		1.96 oz/a		B				
9	Roundup Power Max	4.5 LBAE/GAL		22 oz/a		B				
9	N-pak ams	100 %		2 qt/a		B				

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	TAROF	STEME	POAAN	ERICA
Pest Scientific Name	Taraxacum offi>	Stellaria media	Poa annua	Conyza canadens>
Pest Name	Common dandeli>	Common chickwe>	Annual bluegra>	Canada horsewe>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Apr-28-2010	Apr-28-2010	May-24-2010	May-24-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	14 7	14 7	40 33	40 33
Trt-Eval Interval	14 DA-A	14 DA-A	40 DA-A	40 DA-A
Plant-Eval Interval	-1 DP-1	-1 DP-1	25 DP-1	25 DP-1
Days After Emergence	-9 DE-	-9 DE-	17 DE-	17 DE-
Number of Decimals	0	0	0	0
Trt Treatment	Form Form	Other Other	Appl	
No. Name	Conc Unit	Rate Rate	Unit Code	
10 UTC			C	
LSD (P=.05)	21.9	18.8	0.0	12.9
Standard Deviation	12.8	10.9	0.0	7.5
CV	25.59	20.08	0.1	9.08
Bartlett's X2	3.114	2.577	0.0	2.57
P(Bartlett's X2)	0.927	0.958	.	0.766
Replicate F	5.559	1.054	2.348	1.345
Replicate Prob(F)	0.0132	0.3714	0.1320	0.2855
Treatment F	12.885	28.438	31234239.123	50.187
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001

Pest Type	W Weed	W Weed	W Weed	W Weed	
Pest Code	CAPBP	VERPG	TAROF	STEME	
Pest Scientific Name	Capsella bursa	Veronica peregrina	Taraxacum officinale	Stellaria media	
Pest Name	Shepherd's purse	Purslane speedwell	Common dandelion	Common chickweed	
Crop Code					GLXMA
BBCH Scale					BSOY
Crop Scientific Name					Glycine max
Crop Name					Soybean
Rating Date	May-24-2010	May-24-2010	May-24-2010	May-24-2010	Jun-8-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	PHYGEN
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	40 33	40 33	40 33	40 33	55 48
Trt-Eval Interval	40 DA-A	40 DA-A	40 DA-A	40 DA-A	0 DA-C
Plant-Eval Interval	25 DP-1	25 DP-1	25 DP-1	25 DP-1	40 DP-1
Days After Emergence	17 DE-	17 DE-	17 DE-	17 DE-	32 DE-
Number of Decimals	0	0	0	0	0

Trt	Treatment	Form Conc	Form Unit	Other Rate	Other Unit	Appl Code	9	10	11	12	13
1	Sharpen	2.85 LBA/GAL		1 oz/a		A	100	33	0	33	0
1	Mso	100 %		0.8 qt/a		A					
2	Canopy EX @ 1.5oz						100	73	95	100	6
2	Classic	25 %AW/W		1.36 oz/a		A					
2	Express	75 %AW/W		0.2 oz/a		A					
2	Sharpen	2.85 LBA/GAL		1 oz/a		A					
2	Mso	100 %		0.8 qt/a		A					
3	Canopy	75 %AW/W		3 oz/a		A	100	93	95	93	1
3	Sharpen	2.85 LBA/GAL		1 oz/a		A					
3	Mso	100 %		0.8 qt/a		A					
4	Canopy EX @ 1.5oz						100	71	95	100	5
4	Classic	25 %AW/W		1.36 oz/a		A					
4	Express	75 %AW/W		0.2 oz/a		A					
4	2,4-D	4 LBA/GAL		1 pt/a		A					
4	Mso	100 %		0.8 qt/a		A					
5	Canopy	75 %AW/W		3 oz/a		A	100	98	88	91	1
5	2,4-D	4 LBA/GAL		1 pt/a		A					
5	Mso	100 %		0.8 qt/a		A					
6	Envive @ 3.5oz						100	98	100	76	2
6	Classic	25 %AW/W		1.28 oz/a		A					
6	Thifensulfuron	50 %AW/W		0.208 oz/a		A					
6	Valor SX	51 %AW/W		1.96 oz/a		A					
6	2,4-D	4 LBA/GAL		1 pt/a		A					
6	Mso	100 %		0.8 qt/a		A					
7	Canopy	75 %AW/W		3 oz/a		B	100	83	37	53	1
7	Sharpen	2.85 LBA/GAL		1 oz/a		B					
7	Mso	100 %		0.8 qt/a		B					
8	Envive @ 3.5oz						100	98	98	65	1
8	Classic	25 %AW/W		1.28 oz/a		B					
8	Thifensulfuron	50 %AW/W		0.208 oz/a		B					
8	Valor SX	51 %AW/W		1.96 oz/a		B					
8	2,4-D	4 LBA/GAL		1 pt/a		B					
8	Mso	100 %		0.8 qt/a		B					
9	Envive @ 3.5oz						100	100	100	100	2
9	Classic	25 %AW/W		1.28 oz/a		B					
9	Thifensulfuron	50 %AW/W		0.208 oz/a		B					
9	Valor SX	51 %AW/W		1.96 oz/a		B					
9	Roundup Power Max	4.5 LBAE/GAL		22 oz/a		B					
9	N-pak ams	100 %		2 qt/a		B					

Pest Type												
Pest Code												
Pest Scientific Name												
Pest Name												
Crop Code										GLXMA		
BBCH Scale										BSOY		
Crop Scientific Name										Glycine max		
Crop Name										Soybean		
Rating Date					May-24-2010	May-24-2010	May-24-2010	May-24-2010	Jun-8-2010			
Rating Type					CONTROL	CONTROL	CONTROL	CONTROL	PHYGEN			
Rating Unit					%	%	%	%	%			
Number of Subsamples					1	1	1	1	1			
Days After First/Last Applic.					40 33	40 33	40 33	40 33	55 48			
Trt-Eval Interval					40 DA-A	40 DA-A	40 DA-A	40 DA-A	0 DA-C			
Plant-Eval Interval					25 DP-1	25 DP-1	25 DP-1	25 DP-1	40 DP-1			
Days After Emergence					17 DE-	17 DE-	17 DE-	17 DE-	32 DE-			
Number of Decimals					0	0	0	0	0			
Trt No.	Treatment Name	Form Conc	Form Unit	Other Rate	Other Rate	Appl Unit	Code	9	10	11	12	13
	10 UTC					C		0	0	0	0	0
LSD (P=.05)								0.0	21.0	22.1	49.4	2.9
Standard Deviation								0.0	12.1	12.9	28.5	1.7
CV								0.0	16.17	18.19	40.11	91.0
Bartlett's X2								0.0	16.082	11.932	8.561	2.278
P(Bartlett's X2)								.	0.013*	0.036*	0.128	0.943
Replicate F								0.000	3.247	0.487	0.408	7.637
Replicate Prob(F)								1.0000	0.0655	0.6224	0.6718	0.0040
Treatment F								0.000	22.773	31.559	4.191	4.524
Treatment Prob(F)								1.0000	0.0001	0.0001	0.0062	0.0032

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	TAROF	SETFA	ERICA	SETFA
Pest Scientific Name	Conyza canadensis	Taraxacum officinale	Setaria faberii	Conyza canadensis	Setaria faberii
Pest Name	Canada horseweed	Common dandelion	Giant foxtail	Canada horseweed	Giant foxtail
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jun-8-2010	Jun-8-2010	Jul-9-2010	Jul-9-2010	Aug-3-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	55 48	55 48	86 31	86 31	111 56
Trt-Eval Interval	0 DA-C	0 DA-C	31 DA-C	31 DA-C	56 DA-C
Plant-Eval Interval	40 DP-1	40 DP-1	71 DP-1	71 DP-1	96 DP-1
Days After Emergence	32 DE-	32 DE-	63 DE-	63 DE-	88 DE-
Number of Decimals	0	0	0	0	0

Trt	Treatment	Form	Form	Other	Other	Appl	14	15	16	17	18
No.	Name	Conc	Unit	Rate	Rate	Unit Code					
1	Sharpen	2.85 LBA/GAL		1 oz/a		A	72	0	100	73	100
1	Mso	100 %		0.8 qt/a		A					
2	Canopy EX @ 1.5oz						87	70	100	100	100
2	Classic	25 %AW/W		1.36 oz/a		A					
2	Express	75 %AW/W		0.2 oz/a		A					
2	Sharpen	2.85 LBA/GAL		1 oz/a		A					
2	Mso	100 %		0.8 qt/a		A					
3	Canopy	75 %AW/W		3 oz/a		A	87	75	100	80	100
3	Sharpen	2.85 LBA/GAL		1 oz/a		A					
3	Mso	100 %		0.8 qt/a		A					
4	Canopy EX @ 1.5oz						77	97	100	90	100
4	Classic	25 %AW/W		1.36 oz/a		A					
4	Express	75 %AW/W		0.2 oz/a		A					
4	2,4-D	4 LBA/GAL		1 pt/a		A					
4	Mso	100 %		0.8 qt/a		A					
5	Canopy	75 %AW/W		3 oz/a		A	93	63	100	95	100
5	2,4-D	4 LBA/GAL		1 pt/a		A					
5	Mso	100 %		0.8 qt/a		A					
6	Envive @ 3.5oz						63	50	100	85	100
6	Classic	25 %AW/W		1.28 oz/a		A					
6	Thifensulfuron	50 %AW/W		0.208 oz/a		A					
6	Valor SX	51 %AW/W		1.96 oz/a		A					
6	2,4-D	4 LBA/GAL		1 pt/a		A					
6	Mso	100 %		0.8 qt/a		A					
7	Canopy	75 %AW/W		3 oz/a		B	47	30	100	65	100
7	Sharpen	2.85 LBA/GAL		1 oz/a		B					
7	Mso	100 %		0.8 qt/a		B					
8	Envive @ 3.5oz						87	87	100	80	100
8	Classic	25 %AW/W		1.28 oz/a		B					
8	Thifensulfuron	50 %AW/W		0.208 oz/a		B					
8	Valor SX	51 %AW/W		1.96 oz/a		B					
8	2,4-D	4 LBA/GAL		1 pt/a		B					
8	Mso	100 %		0.8 qt/a		B					
9	Envive @ 3.5oz						65	80	100	71	100
9	Classic	25 %AW/W		1.28 oz/a		B					
9	Thifensulfuron	50 %AW/W		0.208 oz/a		B					
9	Valor SX	51 %AW/W		1.96 oz/a		B					
9	Roundup Power Max	4.5 LBAE/GAL		22 oz/a		B					
9	N-pak ams	100 %		2 qt/a		B					

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	TAROF	SETFA	ERICA	SETFA
Pest Scientific Name	Conyza canadensis	Taraxacum officinale	Setaria faberii	Conyza canadensis	Setaria faberii
Pest Name	Canada horseweed	Common dandelion	Giant foxtail	Canada horseweed	Giant foxtail
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jun-8-2010	Jun-8-2010	Jul-9-2010	Jul-9-2010	Aug-3-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	55 48	55 48	86 31	86 31	111 56
Trt-Eval Interval	0 DA-C	0 DA-C	31 DA-C	31 DA-C	56 DA-C
Plant-Eval Interval	40 DP-1	40 DP-1	71 DP-1	71 DP-1	96 DP-1
Days After Emergence	32 DE-	32 DE-	63 DE-	63 DE-	88 DE-
Number of Decimals	0	0	0	0	0
Trt Treatment	Form Form	Other Other	Appl		
No. Name	Conc Unit	Rate Rate	Unit Code	14	15
				16	17
				18	
10 UTC			C	0	0
				100	50
				100	
LSD (P=.05)	24.2	30.7		0.0	36.4
Standard Deviation	14.1	17.9		0.0	21.2
CV	20.82	32.45		0.0	26.91
Bartlett's X2	3.006	8.276		0.0	13.052
P(Bartlett's X2)	0.934	0.219		.	0.11
Replicate F	3.179	3.638		0.000	1.447
Replicate Prob(F)	0.0657	0.0471		1.0000	0.2613
Treatment F	11.565	11.190		0.000	1.458
Treatment Prob(F)	0.0001	0.0001		1.0000	0.2365

Pest Type W Weed
 Pest Code ERICA
 Pest Scientific Name Conyza canadensis
 Pest Name Canada horseweed
 Crop Code
 BBCH Scale
 Crop Scientific Name
 Crop Name
 Rating Date Aug-3-2010
 Rating Type CONTROL
 Rating Unit %
 Number of Subsamples 1
 Days After First/Last Applic. 111 56
 Trt-Eval Interval 56 DA-C
 Plant-Eval Interval 96 DP-1
 Days After Emergence 88 DE-
 Number of Decimals 0

Trt No.	Treatment Name	Form Conc	Form Unit	Other Rate	Other Unit	Appl Code	
							19
1	Sharpen	2.85 LBA/GAL		1 oz/a		A	87
1	Mso	100 %		0.8 qt/a		A	
2	Canopy EX @ 1.5oz						100
2	Classic	25 %AW/W		1.36 oz/a		A	
2	Express	75 %AW/W		0.2 oz/a		A	
2	Sharpen	2.85 LBA/GAL		1 oz/a		A	
2	Mso	100 %		0.8 qt/a		A	
3	Canopy	75 %AW/W		3 oz/a		A	86
3	Sharpen	2.85 LBA/GAL		1 oz/a		A	
3	Mso	100 %		0.8 qt/a		A	
4	Canopy EX @ 1.5oz						87
4	Classic	25 %AW/W		1.36 oz/a		A	
4	Express	75 %AW/W		0.2 oz/a		A	
4	2,4-D	4 LBA/GAL		1 pt/a		A	
4	Mso	100 %		0.8 qt/a		A	
5	Canopy	75 %AW/W		3 oz/a		A	92
5	2,4-D	4 LBA/GAL		1 pt/a		A	
5	Mso	100 %		0.8 qt/a		A	
6	Envive @ 3.5oz						88
6	Classic	25 %AW/W		1.28 oz/a		A	
6	Thifensulfuron	50 %AW/W		0.208 oz/a		A	
6	Valor SX	51 %AW/W		1.96 oz/a		A	
6	2,4-D	4 LBA/GAL		1 pt/a		A	
6	Mso	100 %		0.8 qt/a		A	
7	Canopy	75 %AW/W		3 oz/a		B	67
7	Sharpen	2.85 LBA/GAL		1 oz/a		B	
7	Mso	100 %		0.8 qt/a		B	
8	Envive @ 3.5oz						81
8	Classic	25 %AW/W		1.28 oz/a		B	
8	Thifensulfuron	50 %AW/W		0.208 oz/a		B	
8	Valor SX	51 %AW/W		1.96 oz/a		B	
8	2,4-D	4 LBA/GAL		1 pt/a		B	
8	Mso	100 %		0.8 qt/a		B	
9	Envive @ 3.5oz						72
9	Classic	25 %AW/W		1.28 oz/a		B	
9	Thifensulfuron	50 %AW/W		0.208 oz/a		B	
9	Valor SX	51 %AW/W		1.96 oz/a		B	
9	Roundup Power Max	4.5 LBAE/GAL		22 oz/a		B	
9	N-pak ams	100 %		2 qt/a		B	

Pest Type	W Weed
Pest Code	ERICA
Pest Scientific Name	Conyza canadensis
Pest Name	Canada horseweed
Crop Code	
BBCH Scale	
Crop Scientific Name	
Crop Name	
Rating Date	Aug-3-2010
Rating Type	CONTROL
Rating Unit	%
Number of Subsamples	1
Days After First/Last Applic.	111 56
Trt-Eval Interval	56 DA-C
Plant-Eval Interval	96 DP-1
Days After Emergence	88 DE-
Number of Decimals	0

Trt No.	Treatment Name	Form Conc	Form Unit	Other Rate	Other Rate	Appl Unit	Code	
								19

10 UTC						C		33
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LSD (P=.05)	20.3
Standard Deviation	11.9
CV	14.97
Bartlett's X2	4.527
P(Bartlett's X2)	0.807

Replicate F	4.706
Replicate Prob(F)	0.0227
Treatment F	7.461
Treatment Prob(F)	0.0002

Ohio State University Horticulture and Crop Science

MARESTAIL CONTROL

Title No. 2:

Trial ID: 10NTS4 Protocol ID: 10NTS4
Location: Western Branch Study Director: Bryan Reeb
Project ID: 10NTS4 Investigator: Dr. Mark M. Loux
Sponsor Contact:

Pest Type

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

Pest Code

POAAN, Poa annua, = US
ERICA, Conyza canadensis, = US
CAPBP, Capsella bursa-pastoris, = US
VERPG, Veronica peregrina, = US
TAROF, Taraxacum officinale, = US
STEME, Stellaria media, = US
SETFA, Setaria faberi, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

PHYGEN = phytotoxicity - general / injury

Rating Unit

% = percent

Plant-Eval Interval

-1 DP-1 = 1 Apr-29-2010
25 DP-1 = 1 Apr-29-2010
40 DP-1 = 1 Apr-29-2010
71 DP-1 = 1 Apr-29-2010
96 DP-1 = 1 Apr-29-2010