

Ohio State University  
Horticulture and Crop Science

MANA Soybean Concepts - POST Program

Title No. 2:  
 Trial ID: 12CMTPOST Protocol ID: CMT-POST  
 Location: WESTERN BRANCH G-6 Study Director: Anthony F. Dobbels  
 Project ID: Investigator: Dr. Mark M. Loux  
 Sponsor Contact: Gerald Wiley, MANA

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 °: 39.85946 N  
 State/Prov.: Ohio Longitude of LL Corner °: 83.67481 W  
 Postal Code: 45368  
 Country: USA

Crop Description

Crop 1: GLXMA Glycine max Soybean  
 Variety: SC 9348 Description: RR  
 BBCH Scale: BSOY Planting Date: May-18-2012  
 Planting Method: SEEDED seeded Rate, Unit: 155000 S/A  
 Depth, Unit: 0.75 IN  
 Row Spacing, Unit: 15 IN  
 Seed Bed: MEDIUM medium  
 Soil Moisture: DRY dry Emergence Date: May-27-2012

Pest Description

Pest 1 Type: W Code: SETFA Setaria faberi  
 Common Name: Giant foxtail  
 Pest 2 Type: W Code: AMBTR Ambrosia trifida  
 Common Name: Giant ragweed  
 Pest 3 Type: W Code: AMARE Amaranthus retroflexus  
 Common Name: Redroot pigweed  
 Pest 4 Type: W Code: CHEAL Chenopodium album  
 Common Name: Common lambsquarters  
 Pest 5 Type: W Code: ABUTH Abutilon theophrasti  
 Common Name: velvetleaf  
 Pest 6 Type: W Code: IPOHE Ipomoea hederacea  
 Common Name: Ivyleaf morningglory

Site and Design

Plot Width, Unit: 6.67 FT Site Type: FIELD field  
 Plot Length, Unit: 40 FT Experimental Unit: 1 PLOT plot  
 Plot Area, Unit: 266.8 FT<sup>2</sup> Tillage Type: CONTIL conventional-till  
 Replications: 4 Study Design: RACOB� Randomized Complete Block (RCB)  
 Untreated Arrangement: INCLUDED single control randomized in each block

Trial Initiation Comments:

Maintenance

No.	Date	Maintenance Treatment Name	Rate	Tank
1.	Jul-23-2012	select max + coc 9	oz/a	no

Soil Description

Description Name: G-6  
 % OM: 2.2 Texture: SIL silt loam  
 pH: 6.3 Soil Name: Crosby  
 CEC: 13.6 Fert. Level: G good  
 Soil Drainage: G good

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Application Description

A  
 Application Date: Jun-20-2012  
 Time of Day: 9:00 A.M.  
 Application Method: SPRAY  
 Application Timing: POST  
 Application Placement: BROFOL  
 Applied By: REEB  
 Air Temperature, Unit: 76 F  
 % Relative Humidity: 79  
 Wind Velocity, Unit: 2 MPH  
 Wind Direction: N  
 Dew Presence (Y/N): Y yes  
 Soil Temperature, Unit: 72 F  
 Soil Moisture: SLIWET  
 % Cloud Cover: 0  
 Next Rain Occurred On: Jun-29-2012

Crop Stage At Each Application

A  
 Crop 1 Code, BBCH Scale: GLXMA BSOY  
 Stage Scale Used: BBCH  
 Stage Majority, Percent: 16 100  
 Height, Unit: 6 IN  
 Height Minimum, Maximum: 5 6

Pest Stage At Each Application

A  
 Pest 1 Code, Type, Scale: SETFA W  
 Stage Majority, Percent: 23 100  
 Height, Unit: 7 IN  
 Height Minimum, Maximum: 6 8  
 Density, Unit: 22 M2  
 Pest 2 Code, Type, Scale: AMBTR W  
 Stage Majority, Percent: 19 100  
 Height, Unit: 8 IN  
 Height Minimum, Maximum: 6 9  
 Density, Unit: 10 M2  
 Pest 3 Code, Type, Scale: AMARE W  
 Stage Majority, Percent: 6 80  
 Stage Minimum, Percent: 3 10  
 Stage Maximum, Percent: 7 10  
 Height, Unit: 2 IN  
 Height Minimum, Maximum: 1 3  
 Density, Unit: 47 M2  
 Pest 4 Code, Type, Scale: CHEAL W  
 Stage Majority, Percent: 16 100  
 Height, Unit: 1 IN  
 Height Minimum, Maximum: 1 1  
 Density, Unit: 5 M2  
 Pest 5 Code, Type, Scale: ABUTH W  
 Stage Majority, Percent: 16 100  
 Height, Unit: 2 IN  
 Height Minimum, Maximum: 2 3  
 Density, Unit: 2.6 M2  
 Pest 6 Code, Type, Scale: IPOHE W  
 Stage Majority, Percent: 13 90  
 Stage Minimum, Percent: 13 90  
 Stage Maximum, Percent: 14 10  
 Height, Unit: 2 IN  
 Height Minimum, Maximum: 2 2  
 Density, Unit: 9 M2

Application Equipment

A  
 Appl. Equipment: 6 foot boom  
 Equipment Type: SPRBAC  
 Operation Pressure, Unit: 46 PSI  
 Nozzle Type: TEEJET DG  
 Nozzle Size: 8002  
 Nozzle Spacing, Unit: 18 IN  
 Boom Length, Unit: 6 FT  
 Boom Height, Unit: 20 IN  
 Ground Speed, Unit: 3 MPH  
 Carrier: WATER  
 Spray Volume, Unit: 20 GPA  
 Mix Size, Unit: 2 Liters  
 Propellant: CO2

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Location: WESTERN BRANCH G-6

Study Director: Anthony F. Dobbels

Project ID:

Investigator: Dr. Mark M. Loux

Sponsor Contact: Gerald Wiley, MANA

Pest Type	W Weed	W Weed	W Weed	W Weed							
Pest Code	SETFA	AMBTR	CHEAL	AMARE							
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Chenopodium album	Amaranthus retrofractus							
Pest Name	Giant foxtail	Giant ragweed	Common lambsquarters	Redroot pigweed							
Crop Code	GLXMA										
BBCH Scale	BSOY										
Crop Scientific Name	Glycine max										
Crop Name	Soybean										
Rating Date	Jun-28-2012	Jul-5-2012	Jul-5-2012	Jul-5-2012							
Rating Type	PHYNEC	CONTRO	CONTRO	CONTRO							
Rating Unit	%	%	%	%							
Number of Subsamples	1	1	1	1							
Days After First/Last Applic.	8 8	15 15	15 15	15 15							
Trt-Eval Interval	8 DA-A	15 DA-A	15 DA-A	15 DA-A							
Plant-Eval Interval	41 DP-1	48 DP-1	48 DP-1	48 DP-1							
Days After Emergence	32 DE-1	39 DE-1	39 DE-1	39 DE-1							
Number of Decimals	0	0	0	0							
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	1	2	3	4	5
1	MANA 14201	0.238 lb ai/a		1 pt/a		A	3 a	30 ef	59 b-f	50 c-g	48 c
1	Preference NIS	0.25 % v/v		6.4 oz/a		A					
2	MANA 14201	0.38 lb ai/a		1.6 pt/a		A	6 a	30 ef	50 def	65 b-e	63 bc
2	Preference NIS	0.25 % v/v		6.4 oz/a		A					
3	Flexstar	0.235 lb ai/a		1 pt/a		A	5 a	38 c-f	40 f	45 d-g	65 bc
3	Preference NIS	0.25 % v/v		6.4 oz/a		A					
4	Flexstar	0.376 lb ai/a		1.6 pt/a		A	7 a	43 b-f	53 c-f	61 b-f	70 ab
4	Preference NIS	0.25 % v/v		6.4 oz/a		A					
5	MANA 14204	1.35 lb ai/a		2 pt/a		A	5 a	28 fg	48 ef	36 fg	73 ab
5	Preference NIS	0.25 % v/v		6.4 oz/a		A					
6	MANA 14204	1.57 lb ai/a		2.33 pt/a		A	5 a	30 ef	61 b-e	70 b-e	70 ab
6	Preference NIS	0.25 % v/v		6.4 oz/a		A					
7	PREFIX	1.54 lb ai/a		2.33 pt/a		A	6 a	25 fgh	63 b-e	83 ab	72 ab
7	Preference NIS	0.25 % v/v		6.4 oz/a		A					
8	MANA 25311	0.98 lb ai/a		1.5 pt/a		A	3 a	50 bcd	58 c-f	58 b-f	71 ab
8	Preference NIS	0.25 % v/v		6.4 oz/a		A					
9	MANA 25311	1.31 lb ai/a		2 pt/a		A	6 a	54 bc	58 c-f	65 b-e	86 a
9	Preference NIS	0.25 % v/v		6.4 oz/a		A					
10	Pursuit	0.047 lb ai/a		3 oz/a		A	4 a	60 b	48 ef	58 b-f	76 ab
10	Parallel PCS	0.94 lb ai/a	0.938 pt/a			A					
10	Preference NIS	0.25 % v/v		6.4 oz/a		A					
11	MANA 25350	0.234 lb ai/a		0.75 pt/a		A	4 a	35 def	58 c-f	43 efg	71 ab
11	Preference NIS	0.25 % v/v		6.4 oz/a		A					
12	MANA 25350	0.313 lb ai/a		1 pt/a		A	4 a	48 b-e	71 bc	76 abc	86 a
12	Preference NIS	0.25 % v/v		6.4 oz/a		A					
13	Flexstar	0.185 lb ai/a		12.6 oz/a		A	5 a	40 c-f	53 c-f	71 bcd	80 ab
13	Pursuit	0.047 lb ai/a		3 oz/a		A					
13	Preference NIS	0.25 % v/v		6.4 oz/a		A					
14	Warrant	0.84 lb ai/a		2.25 pt/a		A	3 a	8 h	10 g	29 g	8 d

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	CHEAL	AMARE						
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>						
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>	Redroot pigweed						
Crop Code	GLXMA									
BBCH Scale	BSOY									
Crop Scientific Name	Glycine max									
Crop Name	Soybean									
Rating Date	Jun-28-2012	Jul-5-2012	Jul-5-2012	Jul-5-2012						
Rating Type	PHYNEC	CONTRO	CONTRO	CONTRO						
Rating Unit	%	%	%	%						
Number of Subsamples	1	1	1	1						
Days After First/Last Applic.	8 8	15 15	15 15	15 15						
Trt-Eval Interval	8 DA-A	15 DA-A	15 DA-A	15 DA-A						
Plant-Eval Interval	41 DP-1	48 DP-1	48 DP-1	48 DP-1						
Days After Emergence	32 DE-1	39 DE-1	39 DE-1	39 DE-1						
Number of Decimals	0	0	0	0						
Trt Treatment	Rate	Other	Other	Appl	1	2	3	4	5	
No. Name	Rate	Unit	Rate	Rate	Unit	Code				
14 Preference NIS	0.25	% v/v	6.4	oz/a		A				
15 Pursuit	0.0625	lb ai/a	4	oz/a		A	3 a	55 bc	70 bcd	82 ab
15 Preference NIS	0.25	% v/v	6.4	oz/a		A				83 ab
16 Roundup PowerMax	0.77	lb ae/a	22	oz/a		A	7 a	98 a	95 a	100 a
16 N-PAK AMS	2.5	% v/v	4	pt/a		A				89 a
17 Flexstar GT	3.5	pt/a				A	6 a	99 a	80 ab	100 a
17 Preference NIS	0.25	% v/v	6.4	oz/a		A				90 a
18 Untreated							1 a	10 gh	0 g	0 h
LSD (P=.05)							3.4	18.2	21.1	28.4
Standard Deviation							2.4	12.9	14.7	20.1
CV							53.26	29.84	27.31	33.15
Replicate F							3.636	5.047	1.487	6.394
Replicate Prob(F)							0.0187	0.0039	0.2296	0.0009
Treatment F							1.731	14.475	8.960	6.121
Treatment Prob(F)							0.0670	0.0001	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ABUTH	SETFA	AMBTR	CHEAL	AMARE
Pest Scientific Name	Abutilon velvetleaf	Setaria faberi Giant foxtail	Ambrosia trifid Giant ragweed	Chenopodium albidum Common lambsquarters	Amaranthus retrofractus Redroot pigweed
Pest Name					
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jul-5-2012	Jul-20-2012	Jul-20-2012	Jul-20-2012	Jul-20-2012
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	15 15	30 30	30 30	30 30	30 30
Trt-Eval Interval	15 DA-A	30 DA-A	30 DA-A	30 DA-A	30 DA-A
Plant-Eval Interval	48 DP-1	63 DP-1	63 DP-1	63 DP-1	63 DP-1
Days After Emergence	39 DE-1	54 DE-1	54 DE-1	54 DE-1	54 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	6	7	8	9	10
1	MANA 14201	0.238 lb ai/a	ai/a	1 pt/a	pt/a	A	23 c	25 c-f	31 cde	50 cde	58 cd
1	Preference NIS	0.25 % v/v	v/v	6.4 oz/a	oz/a	A					
2	MANA 14201	0.38 lb ai/a	ai/a	1.6 pt/a	pt/a	A	31 c	5 f	30 c-f	48 cde	70 a-d
2	Preference NIS	0.25 % v/v	v/v	6.4 oz/a	oz/a	A					
3	Flexstar	0.235 lb ai/a	ai/a	1 pt/a	pt/a	A	94 ab	5 f	13 ef	45 cde	63 bcd
3	Preference NIS	0.25 % v/v	v/v	6.4 oz/a	oz/a	A					
4	Flexstar	0.376 lb ai/a	ai/a	1.6 pt/a	pt/a	A	68 b	18 def	50 bc	60 c	68 a-d
4	Preference NIS	0.25 % v/v	v/v	6.4 oz/a	oz/a	A					
5	MANA 14204	1.35 lb ai/a	ai/a	2 pt/a	pt/a	A	94 ab	13 ef	25 c-f	58 cd	55 d
5	Preference NIS	0.25 % v/v	v/v	6.4 oz/a	oz/a	A					
6	MANA 14204	1.57 lb ai/a	ai/a	2.33 pt/a	pt/a	A	87 ab	10 ef	40 cde	63 bc	73 a-d
6	Preference NIS	0.25 % v/v	v/v	6.4 oz/a	oz/a	A					
7	PREFIX	1.54 lb ai/a	ai/a	2.33 pt/a	pt/a	A	99 ab	0 f	45 bcd	78 abc	75 a-d
7	Preference NIS	0.25 % v/v	v/v	6.4 oz/a	oz/a	A					
8	MANA 25311	0.98 lb ai/a	ai/a	1.5 pt/a	pt/a	A	84 ab	43 bcd	30 c-f	58 cd	79 a-d
8	Preference NIS	0.25 % v/v	v/v	6.4 oz/a	oz/a	A					
9	MANA 25311	1.31 lb ai/a	ai/a	2 pt/a	pt/a	A	70 ab	48 bc	30 c-f	75 abc	78 a-d
9	Preference NIS	0.25 % v/v	v/v	6.4 oz/a	oz/a	A					
10	Pursuit	0.047 lb ai/a	ai/a	3 oz/a	oz/a	A	94 ab	58 b	15 def	50 cde	83 abc
10	Parallel PCS	0.94 lb ai/a	ai/a	0.938 pt/a	pt/a	A					
10	Preference NIS	0.25 % v/v	v/v	6.4 oz/a	oz/a	A					
11	MANA 25350	0.234 lb ai/a	ai/a	0.75 pt/a	pt/a	A	91 ab	25 c-f	33 cde	18 ef	88 ab
11	Preference NIS	0.25 % v/v	v/v	6.4 oz/a	oz/a	A					
12	MANA 25350	0.313 lb ai/a	ai/a	1 pt/a	pt/a	A	84 ab	35 b-e	48 bc	70 abc	93 a
12	Preference NIS	0.25 % v/v	v/v	6.4 oz/a	oz/a	A					
13	Flexstar	0.185 lb ai/a	ai/a	12.6 oz/a	oz/a	A	78 ab	35 b-e	23 c-f	55 cd	83 abc
13	Pursuit	0.047 lb ai/a	ai/a	3 oz/a	oz/a	A					
13	Preference NIS	0.25 % v/v	v/v	6.4 oz/a	oz/a	A					
14	Warrant	0.84 lb ai/a	ai/a	2.25 pt/a	pt/a	A	8 c	5 f	0 f	23 def	0 e

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed					
Pest Code	ABUTH	SETFA	AMBTR	CHEAL	AMARE					
Pest Scientific Name	Abutilon theop>	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>					
Pest Name	velvetleaf	Giant foxtail	Giant ragweed	Common lambsqu>	Redroot pigweed					
Crop Code										
BBCH Scale										
Crop Scientific Name										
Crop Name										
Rating Date	Jul-5-2012	Jul-20-2012	Jul-20-2012	Jul-20-2012	Jul-20-2012					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%					
Number of Subsamples	1	1	1	1	1					
Days After First/Last Applic.	15 15	30 30	30 30	30 30	30 30					
Trt-Eval Interval	15 DA-A	30 DA-A	30 DA-A	30 DA-A	30 DA-A					
Plant-Eval Interval	48 DP-1	63 DP-1	63 DP-1	63 DP-1	63 DP-1					
Days After Emergence	39 DE-1	54 DE-1	54 DE-1	54 DE-1	54 DE-1					
Number of Decimals	0	0	0	0	0					
Trt Treatment	Rate	Rate Unit	Other Rate	Other Rate	Appl Unit Code	6	7	8	9	10
14 Preference NIS	0.25 % v/v		6.4 oz/a		A					
15 Pursuit	0.0625 lb ai/a		4 oz/a		A	70 ab	50 bc	34 cde	63 bc	88 ab
15 Preference NIS	0.25 % v/v		6.4 oz/a		A					
16 Roundup PowerMax	0.77 lb ae/a		22 oz/a		A	100 a	95 a	85 a	100 a	65 bcd
16 N-PAK AMS	2.5 % v/v		4 pt/a		A					
17 Flexstar GT	3.5 pt/a				A	93 ab	100 a	75 ab	98 ab	88 ab
17 Preference NIS	0.25 % v/v		6.4 oz/a		A					
18 Untreated						0 c	0 f	0 f	0 f	0 e
LSD (P=.05)						32.4	27.6	31.2	37.1	25.8
Standard Deviation						22.7	19.5	21.8	26.2	18.0
CV						32.17	61.8	64.87	46.83	27.03
Replicate F						1.406	5.282	1.955	11.808	20.071
Replicate Prob(F)						0.2570	0.0030	0.1330	0.0001	0.0001
Treatment F						8.123	9.508	4.097	3.695	8.658
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0002	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ABUTH	SETFA	AMBTR	CHEAL	AMARE
Pest Scientific Name	Abutilon theop>	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>
Pest Name	velvetleaf	Giant foxtail	Giant ragweed	Common lambsqu>	Redroot pigweed
Crop Code					
BCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jul-20-2012	Aug-21-2012	Aug-21-2012	Aug-21-2012	Aug-21-2012
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	30 30	62 62	62 62	62 62	62 62
Trt-Eval Interval	30 DA-A	62 DA-A	62 DA-A	62 DA-A	62 DA-A
Plant-Eval Interval	63 DP-1	95 DP-1	95 DP-1	95 DP-1	95 DP-1
Days After Emergence	54 DE-1	86 DE-1	86 DE-1	86 DE-1	86 DE-1
Number of Decimals	0	0	0	0	0

Trt	Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	11	12	13	14	15
1	MANA 14201	0.238 lb ai/a		1 pt/a		A	88 a	100 a	17 d-g	60 abc	50 bc
1	Preference NIS	0.25 % v/v		6.4 oz/a		A					
2	MANA 14201	0.38 lb ai/a		1.6 pt/a		A	65 a	100 a	23 c-g	43 bcd	65 ab
2	Preference NIS	0.25 % v/v		6.4 oz/a		A					
3	Flexstar	0.235 lb ai/a		1 pt/a		A	65 a	100 a	10 efg	50 bc	53 bc
3	Preference NIS	0.25 % v/v		6.4 oz/a		A					
4	Flexstar	0.376 lb ai/a		1.6 pt/a		A	68 a	100 a	50 abc	60 abc	50 bc
4	Preference NIS	0.25 % v/v		6.4 oz/a		A					
5	MANA 14204	1.35 lb ai/a		2 pt/a		A	88 a	100 a	15 efg	48 bc	60 ab
5	Preference NIS	0.25 % v/v		6.4 oz/a		A					
6	MANA 14204	1.57 lb ai/a		2.33 pt/a		A	68 a	100 a	35 b-e	75 ab	70 ab
6	Preference NIS	0.25 % v/v		6.4 oz/a		A					
7	PREFIX	1.54 lb ai/a		2.33 pt/a		A	93 a	100 a	45 a-d	67 abc	77 ab
7	Preference NIS	0.25 % v/v		6.4 oz/a		A					
8	MANA 25311	0.98 lb ai/a		1.5 pt/a		A	88 a	100 a	25 b-g	53 bc	60 ab
8	Preference NIS	0.25 % v/v		6.4 oz/a		A					
9	MANA 25311	1.31 lb ai/a		2 pt/a		A	88 a	100 a	18 d-g	75 ab	73 ab
9	Preference NIS	0.25 % v/v		6.4 oz/a		A					
10	Pursuit	0.047 lb ai/a		3 oz/a		A	90 a	100 a	23 c-g	63 abc	75 ab
10	Parallel PCS	0.94 lb ai/a		0.938 pt/a		A					
10	Preference NIS	0.25 % v/v		6.4 oz/a		A					
11	MANA 25350	0.234 lb ai/a		0.75 pt/a		A	88 a	100 a	8 efg	25 cd	55 abc
11	Preference NIS	0.25 % v/v		6.4 oz/a		A					
12	MANA 25350	0.313 lb ai/a		1 pt/a		A	90 a	100 a	30 b-f	58 abc	80 ab
12	Preference NIS	0.25 % v/v		6.4 oz/a		A					
13	Flexstar	0.185 lb ai/a		12.6 oz/a		A	100 a	100 a	5 fg	58 abc	83 ab
13	Pursuit	0.047 lb ai/a		3 oz/a		A					
13	Preference NIS	0.25 % v/v		6.4 oz/a		A					
14	Warrant	0.84 lb ai/a		2.25 pt/a		A	25 b	100 a	5 fg	30 cd	23 cd

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed					
Pest Code	ABUTH	SETFA	AMBTR	CHEAL	AMARE					
Pest Scientific Name	Abutilon theop>	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>					
Pest Name	velvetleaf	Giant foxtail	Giant ragweed	Common lambsqu>	Redroot pigweed					
Crop Code										
BBCH Scale										
Crop Scientific Name										
Crop Name										
Rating Date	Jul-20-2012	Aug-21-2012	Aug-21-2012	Aug-21-2012	Aug-21-2012					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%					
Number of Subsamples	1	1	1	1	1					
Days After First/Last Applic.	30 30	62 62	62 62	62 62	62 62					
Trt-Eval Interval	30 DA-A	62 DA-A	62 DA-A	62 DA-A	62 DA-A					
Plant-Eval Interval	63 DP-1	95 DP-1	95 DP-1	95 DP-1	95 DP-1					
Days After Emergence	54 DE-1	86 DE-1	86 DE-1	86 DE-1	86 DE-1					
Number of Decimals	0	0	0	0	0					
Trt Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	11	12	13	14	15
14 Preference NIS	0.25 % v/v		6.4 oz/a		A					
15 Pursuit	0.0625 lb ai/a		4 oz/a		A	88 a	100 a	28 b-g	58 abc	88 a
15 Preference NIS	0.25 % v/v		6.4 oz/a		A					
16 Roundup PowerMax	0.77 lb ae/a		22 oz/a		A	100 a	100 a	70 a	100 a	60 ab
16 N-PAK AMS	2.5 % v/v		4 pt/a		A					
17 Flexstar GT	3.5 pt/a				A	98 a	100 a	53 ab	100 a	83 ab
17 Preference NIS	0.25 % v/v		6.4 oz/a		A					
18 Untreated						0 b	100 a	0 g	0 d	0 d
LSD (P=.05)						38.2	0.0	28.4	43.1	32.5
Standard Deviation						27.0	0.0	19.8	30.2	22.8
CV						35.13	0.0	78.2	53.29	37.18
Replicate F						1.726	0.000	0.856	9.402	17.977
Replicate Prob(F)						0.1734	1.0000	0.4701	0.0001	0.0001
Treatment F						3.806	0.000	3.659	2.548	3.733
Treatment Prob(F)						0.0001	1.0000	0.0002	0.0053	0.0002



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Pest Type W Weed  
 Pest Code ABUTH  
 Pest Scientific Name Abutilon theop>  
 Pest Name velvetleaf  
 Crop Code  
 BBCH Scale  
 Crop Scientific Name  
 Crop Name  
 Rating Date Aug-21-2012  
 Rating Type CONTRO  
 Rating Unit %  
 Number of Subsamples 1  
 Days After First/Last Applic. 62 62  
 Trt-Eval Interval 62 DA-A  
 Plant-Eval Interval 95 DP-1  
 Days After Emergence 86 DE-1  
 Number of Decimals 0

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	16
1	MANA 14201	0.238 lb ai/a		1 pt/a		A	100 a
1	Preference NIS	0.25 % v/v		6.4 oz/a		A	
2	MANA 14201	0.38 lb ai/a		1.6 pt/a		A	70 abc
2	Preference NIS	0.25 % v/v		6.4 oz/a		A	
3	Flexstar	0.235 lb ai/a		1 pt/a		A	75 abc
3	Preference NIS	0.25 % v/v		6.4 oz/a		A	
4	Flexstar	0.376 lb ai/a		1.6 pt/a		A	68 abc
4	Preference NIS	0.25 % v/v		6.4 oz/a		A	
5	MANA 14204	1.35 lb ai/a		2 pt/a		A	80 ab
5	Preference NIS	0.25 % v/v		6.4 oz/a		A	
6	MANA 14204	1.57 lb ai/a		2.33 pt/a		A	43 c
6	Preference NIS	0.25 % v/v		6.4 oz/a		A	
7	PREFIX	1.54 lb ai/a		2.33 pt/a		A	100 a
7	Preference NIS	0.25 % v/v		6.4 oz/a		A	
8	MANA 25311	0.98 lb ai/a		1.5 pt/a		A	78 abc
8	Preference NIS	0.25 % v/v		6.4 oz/a		A	
9	MANA 25311	1.31 lb ai/a		2 pt/a		A	63 bc
9	Preference NIS	0.25 % v/v		6.4 oz/a		A	
10	Pursuit	0.047 lb ai/a		3 oz/a		A	81 ab
10	Parallel PCS	0.94 lb ai/a		0.938 pt/a		A	
10	Preference NIS	0.25 % v/v		6.4 oz/a		A	
11	MANA 25350	0.234 lb ai/a		0.75 pt/a		A	73 abc
11	Preference NIS	0.25 % v/v		6.4 oz/a		A	
12	MANA 25350	0.313 lb ai/a		1 pt/a		A	90 ab
12	Preference NIS	0.25 % v/v		6.4 oz/a		A	
13	Flexstar	0.185 lb ai/a		12.6 oz/a		A	80 ab
13	Pursuit	0.047 lb ai/a		3 oz/a		A	
13	Preference NIS	0.25 % v/v		6.4 oz/a		A	
14	Warrant	0.84 lb ai/a		2.25 pt/a		A	63 bc

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Pest Type	W Weed
Pest Code	ABUTH
Pest Scientific Name	Abutilon theop>
Pest Name	velvetleaf
Crop Code	
BBCH Scale	
Crop Scientific Name	
Crop Name	
Rating Date	Aug-21-2012
Rating Type	CONTRO
Rating Unit	%
Number of Subsamples	1
Days After First/Last Applic.	62 62
Trt-Eval Interval	62 DA-A
Plant-Eval Interval	95 DP-1
Days After Emergence	86 DE-1
Number of Decimals	0

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	
14	Preference NIS	0.25	% v/v	6.4	oz/a	A	16
15	Pursuit	0.0625	lb ai/a	4	oz/a	A	81 ab
15	Preference NIS	0.25	% v/v	6.4	oz/a	A	
16	Roundup PowerMax	0.77	lb ae/a	22	oz/a	A	85 ab
16	N-PAK AMS	2.5	% v/v	4	pt/a	A	
17	Flexstar GT	3.5	pt/a			A	88 ab
17	Preference NIS	0.25	% v/v	6.4	oz/a	A	
18	Untreated						0 d
	LSD (P=.05)						36.4
	Standard Deviation						25.5
	CV						34.89
	Replicate F						4.036
	Replicate Prob(F)						0.0120
	Treatment F						3.215
	Treatment Prob(F)						0.0007