

Ohio State University Horticulture and Crop Science

EFFECT OF GLYPHOSATE GPA AND ADJUVANT ON GIANT RAGWEED CONTROL

Trial ID: 07RRS3
Location: WESTERN BRANCH E-2

Study Dir.: Anthony F. Dobbels
Investigator: Dr. Mark M. Loux

GENERAL TRIAL INFORMATION

Study Director: Anthony F. Dobbels
Affiliation: OSU
Investigator: Dr. Mark M. Loux
Affiliation: OSU

TRIAL LOCATION

State/Prov.: Ohio
Country: USA
Conducted Under GLP (Y/N): N
Conducted Under GEP (Y/N): N

Trial Status: complete
Initiation Date: Apr/01/2007

CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1. AMBTR	Giant ragweed	Ambrosia trifida
2. IPOHE	Ivyleaf morningglory	Ipomoea hederacea
3. SETFA	Giant foxtail	Setaria faberi
4. CHEAL	Common lambsquarters	Chenopodium album

Crop 1: GLXMA SOYBEAN
Planting Date: May/07/2007
Rate: 175000 SEED/A
Row Spacing: 15 IN

Variety: ASGROW 3705
Planting Method: KINZE 2000
Depth: 0.5 IN
Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 6.67 FT
Tillage Type: CONVENTIONAL

Plot Length, Unit: 30 FT
Study Design: RANDOMIZED COMPLETE BLOCK
Reps: 3

SOIL DESCRIPTION

% OM:	2.7	Texture:	SILTY CLAY LOAM
pH:	6.1	Soil Name:	KOKOMO
CEC:	21.6		

Overall Moisture Conditions: POOR

APPLICATION DESCRIPTION

	A	B	C
Application Date:	Jun/04/2007	Jun/11/2007	Jun/11/2007
Time of Day:	9:00 AM	9:15 AM	9:15 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	POST	POST	POST
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	69 F	73 F	73 F
% Relative Humidity:	69	47	47
Wind Velocity, Unit:	5 SW	4 E	4 E
Soil Temp., Unit:	65 F	66 F	66 F
Soil Moisture:	WET/WET	DRY/DRY	DRY/DRY
% Cloud Cover:	15	0	0

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	GLXMA .	GLXMA .	GLXMA .
Stage Scale:	3 TRIFOL	4 TRIFOL	4 TRIFOL
Height, Unit:	3 IN	7 IN	7 IN

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WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	AMBTR 4-6"	AMBTR 4-12"	AMBTR 4-12"
Stage Scale:	8 LVS	>12 LVS	>12 LVS
Density, Unit:	23 M2	23 M2	23 M2
Weed 2 Code, Stage:	IPOHE 1-2"	IPOHE 1-2.5"	IPOHE 1-2.5"
Stage Scale:	6 LVS	4 LVS	4 LVS
Density, Unit:	0.25 M2	0.25 M2	0.25 M2
Weed 3 Code, Stage:	SETFA 4"	SETFA 6-11"	SETFA 6-11"
Stage Scale:	4 LVS	6 LVS	6 LVS
Density, Unit:	118 M2	118 M2	118 M2
Weed 4 Code, Stage:	CHEAL 1-2"	CHEAL 1-2.5"	CHEAL 1-2.5"
Stage Scale:	4-6 LVS	4-8 LVS	4-8 LVS
Density, Unit:	18 M2	18 M2	18 M2

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK
Operating Pressure:	50	50	50
Nozzle Type:	DG	XR	DG
Nozzle Size:	11002	8001	11002
Nozzle Spacing, Unit:	18 IN	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	20 GPA	10 GPA	20 GPA
Propellant:	CO2	CO2	CO2

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Trial ID: 07RRS3
Location: WESTERN BRANCH E-2

Study Dir.: Anthony F. Dobbels
Investigator: Dr. Mark M. Loux

Weed Code						SETFA	AMBTR	CHEAL				
Crop Code						GLXMA			GLXMA			
Rating Data Type						PHYTO	CONTROL	CONTROL	CONTROL	PHYTO		
Rating Unit						PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Rating Date						Jun/19/2007	Jun/19/2007	Jun/19/2007	Jun/19/2007	Jun/25/2007		
Trt-Eval Interval						15 DA-A	15 DA-A	15 DA-A	15 DA-A	14 DA-B		
# Subsamples, Dec.						0	0	0	0	0		
Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Unit	Appl Code	Spray Volume	1	2	3	4	5
1	MF-0019	0.0028	lb ai/a	0.06	oz/a	A	20	0 a	100 a	87 a	100 a	0 a
1	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a		20					
1	AMS	2.5	% v/v	2	qt/a		20					
2	MF-0019	0.00375	lb ai/a	0.08	oz/a	A	20	0 a	100 a	85 a	100 a	0 a
2	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a		20					
2	AMS	2.5	% v/v	2	qt/a		20					
3	MF-0019	0.0075	lb ai/a	0.16	oz/a	A	20	1 a	100 a	83 ab	99 a	0 a
3	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a		20					
3	AMS	2.5	% v/v	2	qt/a		20					
4	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	B	10	0 a	100 a	65 abc	98 ab	0 a
5	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	B	10	0 a	100 a	67 abc	95 ab	0 a
5	ALLIANCE	1.25	% v/v	16	oz/a	B	10					
6	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	B	10	0 a	100 a	75 abc	90 ab	0 a
6	ALLIANCE	1.25	% v/v	16	oz/a	B	10					
6	PREFERENCE	0.25	% v/v	3.2	oz/a	B	10					
7	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	B	10	0 a	100 a	78 abc	93 ab	0 a
7	ALLIANCE	1.25	% v/v	16	oz/a	B	10					
7	INTERLOCK	4	oz/a	4	oz/a	B	10					
8	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	B	10	0 a	100 a	67 abc	80 b	0 a
8	ALLIANCE	1.25	% v/v	16	oz/a	B	10					
8	POWERLOCK	6.4	oz/a	6.4	oz/a	B	10					
9	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	B	10	0 a	100 a	62 bc	93 ab	0 a
9	AG06097	2.5	% v/v	32	oz/a	B	10					
10	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	C	20	0 a	100 a	70 abc	87 ab	0 a
11	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	C	20	0 a	100 a	73 abc	97 ab	0 a
11	ALLIANCE	1.25	% v/v	32	oz/a	C	20					
12	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	C	20	0 a	100 a	62 bc	88 ab	0 a
12	ALLIANCE	1.25	% v/v	32	oz/a	C	20					
12	PREFERENCE	0.25	% v/v	6.4	oz/a	C	20					
13	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	C	20	0 a	100 a	58 c	83 ab	0 a
13	ALLIANCE	1.25	% v/v	32	oz/a	C	20					
13	INTERLOCK	4	oz/a	4	oz/a	C	20					
14	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	C	20	0 a	98 a	68 abc	80 b	0 a
14	ALLIANCE	1.25	% v/v	32	oz/a	C	20					
14	POWERLOCK	6.4	oz/a	6.4	oz/a	C	20					
15	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	C	20	0 a	100 a	70 abc	98 ab	0 a
15	AG06097	2.5	% v/v	64	oz/a	C	20					
16	UTC							0 a	0 b	0 d	0 c	0 a

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Weed Code				SETFA	AMBTR	CHEAL		
Crop Code				GLXMA			GLXMA	
Rating Data Type				PHYTO	CONTROL	CONTROL	CONTROL	PHYTO
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date				Jun/19/2007	Jun/19/2007	Jun/19/2007	Jun/19/2007	Jun/25/2007
Trt-Eval Interval				15 DA-A	15 DA-A	15 DA-A	15 DA-A	14 DA-B
# Subsamples, Dec.				0	0	0	0	0

Trt Treatment	Rate	Rate	Product	Product	Appl	Spray						
No. Name	Rate	Unit	Rate	Rate	Unit	Code	Volume	1	2	3	4	5
LSD (P=.05)								0.7	1.2	13.0	10.6	0.0
Standard Deviation								0.4	0.7	7.8	6.4	0.0
CV								692.82	0.77	11.64	7.38	0.0
Bartlett's X2								0.0	0.0	17.919	15.963	0.0
P(Bartlett's X2)								.	.	0.21	0.143	.
Replicate F								1.000	1.000	1.651	1.407	0.000
Replicate Prob(F)								0.3798	0.3798	0.2087	0.2607	1.0000
Treatment F								1.000	3593.000	19.337	42.591	0.000
Treatment Prob(F)								0.4801	0.0001	0.0001	0.0001	1.0000

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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						SETFA	AMBTR	CHEAL	SETFA			
						CONTROL	CONTROL	CONTROL	GLXMA	CONTROL		
						PERCENT	PERCENT	PERCENT	PHYTO	PERCENT		
						Jun/25/2007	Jun/25/2007	Jun/25/2007	Jul/02/2007	Jul/02/2007		
						14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B		
						0	0	0	0	0		
Trt	Treatment	Rate	Rate	Product	Product	Appl	Spray					
No.	Name	Unit	Unit	Rate	Rate	Code	Volume	6	7	8	9	10
1	MF-0019	0.0028 lb ai/a	0.06 oz/a	A	20			100 a	78 a	95 a	0 a	99 a
1	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a		20							
1	AMS	2.5 % v/v	2 qt/a		20							
2	MF-0019	0.00375 lb ai/a	0.08 oz/a	A	20			98 a	70 a	90 a	0 a	100 a
2	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a		20							
2	AMS	2.5 % v/v	2 qt/a		20							
3	MF-0019	0.0075 lb ai/a	0.16 oz/a	A	20			99 a	78 a	95 a	0 a	100 a
3	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a		20							
3	AMS	2.5 % v/v	2 qt/a		20							
4	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a	B	10			100 a	60 a	97 a	0 a	100 a
5	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a	B	10			100 a	67 a	100 a	0 a	100 a
5	ALLIANCE	1.25 % v/v	16 oz/a	B	10							
6	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a	B	10			100 a	75 a	93 a	0 a	100 a
6	ALLIANCE	1.25 % v/v	16 oz/a	B	10							
6	PREFERENCE	0.25 % v/v	3.2 oz/a	B	10							
7	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a	B	10			100 a	68 a	93 a	0 a	100 a
7	ALLIANCE	1.25 % v/v	16 oz/a	B	10							
7	INTERLOCK	4 oz/a	4 oz/a	B	10							
8	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a	B	10			100 a	73 a	88 a	0 a	100 a
8	ALLIANCE	1.25 % v/v	16 oz/a	B	10							
8	POWERLOCK	6.4 oz/a	6.4 oz/a	B	10							
9	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a	B	10			100 a	65 a	98 a	0 a	100 a
9	AG06097	2.5 % v/v	32 oz/a	B	10							
10	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a	C	20			100 a	77 a	100 a	0 a	100 a
11	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a	C	20			100 a	80 a	98 a	0 a	100 a
11	ALLIANCE	1.25 % v/v	32 oz/a	C	20							
12	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a	C	20			100 a	65 a	95 a	0 a	100 a
12	ALLIANCE	1.25 % v/v	32 oz/a	C	20							
12	PREFERENCE	0.25 % v/v	6.4 oz/a	C	20							
13	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a	C	20			100 a	63 a	93 a	0 a	100 a
13	ALLIANCE	1.25 % v/v	32 oz/a	C	20							
13	INTERLOCK	4 oz/a	4 oz/a	C	20							
14	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a	C	20			100 a	68 a	83 a	0 a	100 a
14	ALLIANCE	1.25 % v/v	32 oz/a	C	20							
14	POWERLOCK	6.4 oz/a	6.4 oz/a	C	20							
15	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a	C	20			100 a	70 a	98 a	0 a	100 a
15	AG06097	2.5 % v/v	64 oz/a	C	20							
16	UTC							0 b	0 b	0 b	0 a	0 b
LSD (P=.05)								1.3	12.3	11.3	0.0	0.5
Standard Deviation								0.8	7.4	6.8	0.0	0.3
CV								0.81	11.13	7.67	0.0	0.31
Bartlett's X2								1.463	13.271	7.454	0.0	0.0
P(Bartlett's X2)								0.226	0.427	0.826	.	.

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Weed Code	SETFA	AMBTR	CHEAL		SETFA
Crop Code				GLXMA	
Rating Data Type	CONTROL	CONTROL	CONTROL	PHYTO	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	Jun/25/2007	Jun/25/2007	Jun/25/2007	Jul/02/2007	Jul/02/2007
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Rate	Product	Product Rate	Product Unit	Appl Code	Spray Volume	6	7	8	9	10
Replicate F								1.771	2.373	1.769	0.000	1.000
Replicate Prob(F)								0.1875	0.1104	0.1878	1.0000	0.3798
Treatment F								3243.892	19.161	37.559	0.000	22481.002
Treatment Prob(F)								0.0001	0.0001	0.0001	1.0000	0.0001

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)
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Weed Code				AMBTR	CHEAL	SETFA	AMBTR	CHEAL				
Crop Code				CONTROL		CONTROL		CONTROL				
Rating Data Type				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Rating Unit				Jul/02/2007	Jul/02/2007	Jul/10/2007	Jul/10/2007	Jul/10/2007				
Rating Date				14 DA-B	14 DA-B	29 DA-B	29 DA-B	29 DA-B				
Trt-Eval Interval				0	0	0	0	0				
# Subsamples, Dec.				0	0	0	0	0				
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Unit	Appl Code	Spray Volume	11	12	13	14	15
1	MF-0019	0.0028	lb ai/a	0.06	oz/a	A	20	75 ab	92 a	98 a	72 a	100 a
1	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a		20					
1	AMS	2.5	% v/v	2	qt/a		20					
2	MF-0019	0.00375	lb ai/a	0.08	oz/a	A	20	67 ab	100 a	98 a	73 a	100 a
2	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a		20					
2	AMS	2.5	% v/v	2	qt/a		20					
3	MF-0019	0.0075	lb ai/a	0.16	oz/a	A	20	70 ab	93 a	98 a	77 a	98 a
3	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a		20					
3	AMS	2.5	% v/v	2	qt/a		20					
4	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	B	10	55 b	90 a	100 a	68 a	90 ab
5	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	B	10	65 ab	90 a	98 a	83 a	90 ab
5	ALLIANCE	1.25	% v/v	16	oz/a	B	10					
6	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	B	10	80 ab	80 ab	99 a	93 a	97 ab
6	ALLIANCE	1.25	% v/v	16	oz/a	B	10					
6	PREFERENCE	0.25	% v/v	3.2	oz/a	B	10					
7	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	B	10	70 ab	100 a	99 a	87 a	85 abc
7	ALLIANCE	1.25	% v/v	16	oz/a	B	10					
7	INTERLOCK	4	oz/a	4	oz/a	B	10					
8	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	B	10	81 ab	60 b	100 a	93 a	73 c
8	ALLIANCE	1.25	% v/v	16	oz/a	B	10					
8	POWERLOCK	6.4	oz/a	6.4	oz/a	B	10					
9	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	B	10	69 ab	96 a	100 a	83 a	92 ab
9	AG06097	2.5	% v/v	32	oz/a	B	10					
10	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	C	20	77 ab	92 a	100 a	88 a	92 ab
11	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	C	20	84 a	93 a	99 a	88 a	90 ab
11	ALLIANCE	1.25	% v/v	32	oz/a	C	20					
12	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	C	20	73 ab	82 a	100 a	90 a	82 bc
12	ALLIANCE	1.25	% v/v	32	oz/a	C	20					
12	PREFERENCE	0.25	% v/v	6.4	oz/a	C	20					
13	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	C	20	78 ab	77 ab	100 a	92 a	83 abc
13	ALLIANCE	1.25	% v/v	32	oz/a	C	20					
13	INTERLOCK	4	oz/a	4	oz/a	C	20					
14	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	C	20	85 a	60 b	99 a	90 a	72 c
14	ALLIANCE	1.25	% v/v	32	oz/a	C	20					
14	POWERLOCK	6.4	oz/a	6.4	oz/a	C	20					
15	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	C	20	86 a	97 a	100 a	91 a	97 ab
15	AG06097	2.5	% v/v	64	oz/a	C	20					
16	UTC							0 c	0 c	0 b	0 b	0 d
LSD (P=.05)								16.0	15.2	2.2	14.1	9.6
Standard Deviation								9.6	9.1	1.3	8.5	5.8
CV								13.74	11.2	1.4	10.66	6.9
Bartlett's X2								24.13	10.063	5.494	24.301	9.238
P(Bartlett's X2)								0.044*	0.435	0.60	0.042*	0.682

Ohio State University Horticulture and Crop Science

Weed Code	AMBTR	CHEAL	SETFA	AMBTR	CHEAL
Crop Code					
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	Jul/02/2007	Jul/02/2007	Jul/10/2007	Jul/10/2007	Jul/10/2007
Trt-Eval Interval	14 DA-B	14 DA-B	29 DA-B	29 DA-B	29 DA-B
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Rate	Product	Product Rate	Product Unit	Appl Code	Spray Volume	11	12	13	14	15
Replicate F								1.026	1.089	7.671	0.837	1.449
Replicate Prob(F)								0.3706	0.3501	0.0020	0.4429	0.2509
Treatment F								13.502	22.552	1086.541	21.435	51.389
Treatment Prob(F)								0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Weed Code				SETFA	AMBTR	CHEAL				
Crop Code				CONTROL	CONTROL	CONTROL				
Rating Data Type				PERCENT	PERCENT	PERCENT				
Rating Unit				Aug/10/2007	Aug/10/2007	Aug/10/2007				
Rating Date				60 DA-B	60 DA-B	60 DA-B				
Trt-Eval Interval				0	0	0				
# Subsamples, Dec.				0	0	0				
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Unit	Appl Code	Spray Volume	16	17	18
1	MF-0019	0.0028	lb ai/a	0.06	oz/a	A	20	98 a	67 bc	100 a
1	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a		20			
1	AMS	2.5	% v/v	2	qt/a		20			
2	MF-0019	0.00375	lb ai/a	0.08	oz/a	A	20	97 a	53 c	100 a
2	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a		20			
2	AMS	2.5	% v/v	2	qt/a		20			
3	MF-0019	0.0075	lb ai/a	0.16	oz/a	A	20	93 b	57 c	87 abc
3	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a		20			
3	AMS	2.5	% v/v	2	qt/a		20			
4	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	B	10	100 a	73 abc	68 bc
5	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	B	10	99 a	82 ab	86 abc
5	ALLIANCE	1.25	% v/v	16	oz/a	B	10			
6	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	B	10	99 a	93 ab	91 ab
6	ALLIANCE	1.25	% v/v	16	oz/a	B	10			
6	PREFERENCE	0.25	% v/v	3.2	oz/a	B	10			
7	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	B	10	100 a	88 ab	82 abc
7	ALLIANCE	1.25	% v/v	16	oz/a	B	10			
7	INTERLOCK	4	oz/a	4	oz/a	B	10			
8	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	B	10	100 a	96 a	79 abc
8	ALLIANCE	1.25	% v/v	16	oz/a	B	10			
8	POWERLOCK	6.4	oz/a	6.4	oz/a	B	10			
9	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	B	10	100 a	91 ab	88 abc
9	AG06097	2.5	% v/v	32	oz/a	B	10			
10	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	C	20	100 a	85 ab	87 abc
11	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	C	20	99 a	85 ab	80 abc
11	ALLIANCE	1.25	% v/v	32	oz/a	C	20			
12	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	C	20	98 a	92 ab	80 abc
12	ALLIANCE	1.25	% v/v	32	oz/a	C	20			
12	PREFERENCE	0.25	% v/v	6.4	oz/a	C	20			
13	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	C	20	100 a	92 ab	81 abc
13	ALLIANCE	1.25	% v/v	32	oz/a	C	20			
13	INTERLOCK	4	oz/a	4	oz/a	C	20			
14	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	C	20	99 a	91 ab	67 c
14	ALLIANCE	1.25	% v/v	32	oz/a	C	20			
14	POWERLOCK	6.4	oz/a	6.4	oz/a	C	20			
15	ROUNDUP ORIGINAL MAX	0.77	lb ae/a	22	oz/a	C	20	99 a	90 ab	93 a
15	AG06097	2.5	% v/v	64	oz/a	C	20			
16	UTC							0 c	0 d	0 d
LSD (P=.05)								3.2	15.4	13.9
Standard Deviation								1.9	9.3	8.3
CV								2.09	11.99	10.49
Bartlett's X2								11.878	19.433	6.114
P(Bartlett's X2)								0.157	0.149	0.866

Ohio State University Horticulture and Crop Science

Weed Code	SETFA	AMBTR	CHEAL
Crop Code			
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Date	Aug/10/2007	Aug/10/2007	Aug/10/2007
Trt-Eval Interval	60 DA-B	60 DA-B	60 DA-B
# Subsamples, Dec.	0	0	0

Trt No.	Treatment Name	Rate	Product	Product Rate	Product Unit	Appl Code	Spray Volume	16	17	18
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Replicate F								2.263	4.702	0.221
Replicate Prob(F)								0.1215	0.0167	0.8034
Treatment F								489.347	20.838	23.109
Treatment Prob(F)								0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.