

Ohio State University
Horticulture and Crop Science

PRE FOLLOWED BY POST WEED CONTROL IN ROUNDUP READY SOYBEAN

Trial ID: 08PRPOS1 Study Dir.: Anthony F. Dobbels
Location: WESTERN BRANCH F-8 Investigator: Dr. Mark M. Loux

GENERAL TRIAL INFORMATION

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

Conducted Under GLP (Y/N): N Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1. SETFA	Giant foxtail	Setaria faberi
2. AMBTR	Giant ragweed	Ambrosia trifida
3. CHEAL	Common lambsquarters	Chenopodium album
4. ABUTH	Velvetleaf	Abutilon theophrasti
5. IPOHE	Ivyleaf morningglory	Ipomoea hederacea
6. AMARE	Redroot pigweed	Amaranthus retroflexus
7. AMBEL	Common ragweed	Ambrosia artemisiifolia elatio

Crop 1: GLXMA SOYBEAN Variety: SEED CONSULTANTS SC9386
Planting Date: May/25/2008 Planting Method: KINZE 2000
Rate: 175386 SEED/A Depth: 0.75 IN
Row Spacing: 15 IN Seed Bed: CONVENTIONAL

SITE AND DESIGN

Plot Width, Unit: 6.67 FT Plot Length, Unit: 30 FT Reps: 3
Tillage Type: CONVENTIONAL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% OM: 2.2 Texture: SILTY CLAY LOAM
pH: 5.7 Soil Name: KOKOMO
CEC: 13.7 Fert. Level: EXCELLENT

APPLICATION DESCRIPTION

	A	B	C	D	E
Application Date:	May/25/2008	Jun/23/2008	Jun/25/2008	Jul/07/2008	Jul/07/2008
Time of Day:	2:00 P.M.	9:00 A.M.	9:00 A.M.	9:00 A.M.	9:00 A.M.
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	POST	POST	42 DAPL	LPO
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	76 F	66 F	76 F	74 F	74 F
% Relative Humidity:	34	69	58	75	75
Wind Velocity, Unit:	8 S	5 SW	7 NNW	3 SSW	3 SSW
Soil Temp., Unit:	64 F	64 F	65 F	69 F	69 F
Soil Moisture:	DRY/MOIST	MOIST/MOI	DRY/MOIST	MOIST/WET	MOIST/WET
% Cloud Cover:	10	22	10	90	90

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E
Crop 1 Code, Stage:	GLXMA	GLXMA V4	GLXMA V4	GLXMA V5	GLXMA V5
Stage Scale:	DESC	DESC	DESC	DESC	DESC
Height, Unit:	7	IN 7	IN 11	IN 11	IN

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E
Weed 1 Code, Stage:	SETFA	SETFA 1-12"	SETFA 8"	SETFA 24"	SETFA 1-2"
Stage Scale:		1-5 LVS	5 LVS	7-10 LVS	3 LVS
Density, Unit:		342 M2	342 M2	342 M2	342 M2
Weed 2 Code, Stage:	AMBTR	AMBTR 2-8"	AMBTR 8-10"	AMBTR 12-24"	AMBTR 2" RE
Stage Scale:		8-12 LVS	8-11 LVS	14-36 LVS	1 LV
Density, Unit:		20 M2	20 M2	20 M2	20 M2
Weed 3 Code, Stage:	CHEAL	CHEAL 1-2"	CHEAL 2"	CHEAL	CHEAL 1"
Stage Scale:		2-6 LVS	4 LVS		4 LVS
Density, Unit:		17 M2	17 M2		
Weed 4 Code, Stage:	ABUTH	ABUTH 1-2"	ABUTH 1-3"	ABUTH	ABUTH
Stage Scale:		2-4 LVS	4-6 LVS		
Density, Unit:		5 M2	5 M2		
Weed 5 Code, Stage:	IPOHE	IPOHE 1-2"	IPOHE	IPOHE	IPOHE
Stage Scale:		2-4 LVS			
Density, Unit:		1 M2			
Weed 6 Code, Stage:	AMARE	AMARE 1-2"	AMARE 3"	AMARE	AMARE
Stage Scale:		2-4 LVS	8 LVS		
Density, Unit:		29 M2	29 M2		
Weed 7 Code, Stage:	AMBEL	AMBEL 2-4"	AMBEL	AMBEL	AMBEL
Stage Scale:		4-6 LVS			
Density, Unit:		2 M2			

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APPLICATION EQUIPMENT

	A		B		C		D		E	
Appl. Equipment:	BACKPACK		BACKPACK		BACKPACK		BACKPACK		BACKPACK	
Operating Pressure:	53		53		53		53		53	
Nozzle Type:	DG		DG		DG		DG		DG	
Nozzle Size:	11002		11002		11002		11002		11002	
Nozzle Spacing, Unit:	18	IN	18	IN	18	IN	18	IN	18	IN
Ground Speed, Unit:	3	MPH	3	MPH	3	MPH	3	MPH	3	MPH
Carrier:	WATER		WATER		WATER		WATER		WATER	
Spray Volume, Unit:	20	GPA	20	GPA	20	GPA	20	GPA	20	GPA
Propellant:	CO2		CO2		CO2		CO2		CO2	

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PRE FOLLOWED BY POST WEED CONTROL IN ROUNDUP READY SOYBEAN

Trial ID: 08PRPOS1 Study Dir.: Anthony F. Dobbels
Location: WESTERN BRANCH F-8 Investigator: Dr. Mark M. Loux

Weed Code					SETFA	AMBTR	AMARE	ABUTH			
Crop Code					GLXMA	GLXMA					
Rating Data Type					PHTYO	PHYTO	CONTROL	CONTROL			
Rating Unit					PERCENT	PERCENT	PERCENT	PERCENT			
Rating Date					Jun/08/2008	Jun/16/2008	Jun/16/2008	Jun/16/2008			
Trt-Eval Interval					7 DA EME	14 DA E	14 DA E	14 DA E			
# Subsamples, Dec.					0	0	0	0			
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6
1	METRIBUZIN	10.7 oz/a		PRE	A	0 b	3 b	30 de	28 d-g	100 a	100 a
1	GLYFOS XTRA	32 oz/a		42 DAPL	D						
1	AMS	2 qt/a		42 DAPL							
2	METRIBUZIN	21.3 oz/a		PRE	A	10 a	15 a	70 abc	55 a-g	100 a	100 a
2	GLYFOS XTRA	32 oz/a		42 DAPL	D						
2	AMS	2 qt/a		42 DAPL							
3	METRIBUZIN	10.7 oz/a		PRE	A	0 b	0 b	30 de	0 g	90 a	100 a
3	PROWL H2O	36 oz/a		PRE							
3	GLYFOS XTRA	32 oz/a		42 DAPL	D						
3	AMS	2 qt/a		42 DAPL							
4	SENCOR DF	10.7 oz/a		PRE	A	0 b	2 b	50 cd	33 c-g	90 a	97 a
4	GLYFOS XTRA	32 oz/a		42 DAPL	D						
4	AMS	2 qt/a		42 DAPL							
5	VALOR XLT 3 OZ					0 b	5 b	80 abc	88 ab	100 a	100 a
5	VALOR SX	1.76 oz/a		PRE	A						
5	CLASSIC	1.24 oz/a		PRE							
5	ROUNDUP POWERMAX	22 oz/a		POST	C						
5	AMS	4 qt/a		POST							
6	VALOR XLT 3.5 OZ					5 b	13 a	78 abc	99 a	100 a	98 a
6	VALOR SX	2.05 oz/a		PRE	A						
6	CLASSIC	1.45 oz/a		PRE							
6	ROUNDUP POWERMAX	22 oz/a		POST	C						
6	AMS	4 qt/a		POST							
7	GANGSTER 2.4 OZ					2 b	8 b	79 abc	80 abc	100 a	100 a
7	FIRSTRATE	0.4 oz/a		PRE	A						
7	VALOR SX	2 oz/a		PRE							
7	ROUNDUP POWERMAX	22 oz/a		POST	C						
7	AMS	4 qt/a		POST							
8	GANGSTER 1.8 OZ					1 b	7 b	72 abc	89 ab	100 a	100 a
8	FIRSTRATE	0.3 oz/a		PRE	A						
8	VALOR SX	1.5 oz/a		PRE							
8	ROUNDUP POWERMAX	22 oz/a		POST	C						
8	AMS	4 qt/a		POST							
9	AUTHORITY	2.75 oz/a		PRE	A	0 b	2 b	67 abc	27 d-g	100 a	100 a
9	PURSUIT	0.6 oz/a		PRE							
9	ROUNDUP POWERMAX	22 oz/a		POST	C						
9	AMS	4 qt/a		POST							
10	AUTHORITY FIRST	3 oz/a		PRE	A	0 b	5 b	63 abc	62 a-f	100 a	100 a
10	ROUNDUP POWERMAX	22 oz/a		POST	C						
10	AMS	4 qt/a		POST							
11	AUTHORITY MTZ	12 oz/a		PRE	A	0 b	0 b	53 bcd	10 fg	100 a	100 a
11	ROUNDUP POWERMAX	22 oz/a		POST	C						
11	AMS	4 qt/a		POST							
12	PREFIX	2 pt/a		PRE	A	2 b	3 b	88 ab	43 b-g	100 a	67 c
12	TOUCHDOWN TOTAL	24 oz/a		POST	C						
12	AMS	4 qt/a		POST							
13	CANOPY	4 oz/a		PRE	A	2 b	3 b	50 cd	70 a-e	100 a	100 a
13	ROUNDUP POWERMAX	22 oz/a		POST	C						
13	AMS	4 qt/a		POST							

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Weed Code					SETFA	AMBTR	AMARE	ABUTH			
Crop Code					GLXMA	GLXMA					
Rating Data Type					PHTYO	PHYTO	CONTROL	CONTROL			
Rating Unit					PERCENT	PERCENT	PERCENT	PERCENT			
Rating Date					Jun/08/2008	Jun/16/2008	Jun/16/2008	Jun/16/2008			
Trt-Eval Interval					7 DA EME	14 DA E	14 DA E	14 DA E			
# Subsamples, Dec.					0	0	0	0			
Trt No.	Treatment Name	Product Rate	Product Unit	Grow Stg	Appl Code	1	2	3	4	5	6
14	ENVIVE 3.5 OZ					0 b	5 b	70 abc	82 abc	100 a	100 a
14	CLASSIC	1.28 oz/a		PRE	A						
14	HARMONY GT	0.208 oz/a		PRE							
14	VALOR SX	1.96 oz/a		PRE							
14	ROUNDUP POWERMAX	22 oz/a		POST	C						
14	AMS	4 qt/a		POST							
15	SONIC	3 oz/a		PRE	A	2 b	2 b	47 cd	77 a-d	100 a	93 a
15	DURANGO	24 oz/a		POST	C						
15	AMS	4 qt/a		POST							
16	SONIC	4.5 oz/a		PRE	A	0 b	3 b	72 abc	86 abc	100 a	100 a
16	DURANGO	24 oz/a		POST	C						
16	AMS	4 qt/a		POST							
17	DURANGO	24 oz/a		POST	B	0 b	0 b	0 e	23 d-g	0 b	0 d
17	FIRSTRATE	0.3 oz/a		POST							
17	AMS	4 qt/a		POST							
17	DURANGO	24 oz/a		LPO	E						
17	AMS	4 qt/a		LPO							
18	CADET	0.4 oz/a		POST	B	0 b	0 b	0 e	23 d-g	0 b	0 d
18	ROUNDUP POWERMAX	22 oz/a		POST							
18	AMS	4 qt/a		POST							
19	DUAL II MAGNUM	1.6 pt/a		PRE	A	0 b	2 b	98 a	13 fg	100 a	82 b
19	CADET	0.6 oz/a		POST	B						
19	COC	0.8 qt/a		POST							
20	RESOURCE	10 oz/a		POST	B	0 b	0 b	0 e	17 efg	0 b	0 d
20	ROUNDUP POWERMAX	22 oz/a		POST							
20	AMS	4 qt/a		POST							
21	ROUNDUP POWERMAX	22 oz/a		POST	B	0 b	0 b	0 e	0 g	0 b	0 d
21	AMS	4 qt/a		POST							
22	UTC					0 b	0 b	0 e	0 g	0 b	0 d
	LSD (P=.05)					4.2	4.6	21.2	32.5	8.4	7.4
	Standard Deviation					2.5	2.8	12.9	19.7	5.1	4.5
	CV					249.19	77.67	25.78	43.03	6.67	6.07
	Bartlett's X2					10.072	3.071	23.356	18.532	0.0	5.983
	P(Bartlett's X2)					0.122	0.998	0.038*	0.421	.	0.20
	Replicate F					3.952	0.792	1.828	0.442	2.100	1.916
	Replicate Prob(F)					0.0268	0.4594	0.1732	0.6458	0.1351	0.1599
	Treatment F					2.542	6.880	18.844	8.781	208.500	260.124
	Treatment Prob(F)					0.0050	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		AMARE		ABUTH		GLXMA	
Crop Code		GLXMA		CONTROL		CONTROL		CONTROL		PHYTO	
Rating Data Type		PHYTO		PERCENT		PERCENT		PERCENT		PERCENT	
Rating Unit		Jun/25/2008		Jun/25/2008		Jun/25/2008		Jun/25/2008		Jul/21/2008	
Rating Date		AT POST		AT POST		AT POST		AT POST		14 DA-D	
Trt-Eval Interval		0		0		0		0		0	
# Subsamples, Dec.											
Trt No.	Treatment Name	Product Rate	Product Unit	Grow Stg	Appl Code	7	8	9	10	11	12
1	METRIBUZIN	10.7	oz/a	PRE	A	0 b	20 efg	23 bc	93 a	100 a	5 a
1	GLYFOS XTRA	32	oz/a	42 DAPL	D						
1	AMS	2	qt/a	42 DAPL							
2	METRIBUZIN	21.3	oz/a	PRE	A	7 a	47 b-e	50 abc	100 a	100 a	8 a
2	GLYFOS XTRA	32	oz/a	42 DAPL	D						
2	AMS	2	qt/a	42 DAPL							
3	METRIBUZIN	10.7	oz/a	PRE	A	0 b	7 fg	0 c	83 a	73 ab	2 a
3	PROWL H2O	36	oz/a	PRE							
3	GLYFOS XTRA	32	oz/a	42 DAPL	D						
3	AMS	2	qt/a	42 DAPL							
4	SENCOR DF	10.7	oz/a	PRE	A	1 b	30 c-g	17 bc	90 a	83 a	2 a
4	GLYFOS XTRA	32	oz/a	42 DAPL	D						
4	AMS	2	qt/a	42 DAPL							
5	VALOR XLT 3 OZ					3 ab	70 abc	85 a	100 a	100 a	0 a
5	VALOR SX	1.76	oz/a	PRE	A						
5	CLASSIC	1.24	oz/a	PRE							
5	ROUNDUP POWERMAX	22	oz/a	POST	C						
5	AMS	4	qt/a	POST							
6	VALOR XLT 3.5 OZ					3 ab	65 bcd	89 a	100 a	100 a	2 a
6	VALOR SX	2.05	oz/a	PRE	A						
6	CLASSIC	1.45	oz/a	PRE							
6	ROUNDUP POWERMAX	22	oz/a	POST	C						
6	AMS	4	qt/a	POST							
7	GANGSTER 2.4 OZ					1 b	70 abc	90 a	100 a	100 a	0 a
7	FIRSTRATE	0.4	oz/a	PRE	A						
7	VALOR SX	2	oz/a	PRE							
7	ROUNDUP POWERMAX	22	oz/a	POST	C						
7	AMS	4	qt/a	POST							
8	GANGSTER 1.8 OZ					3 ab	60 b-e	93 a	100 a	100 a	0 a
8	FIRSTRATE	0.3	oz/a	PRE	A						
8	VALOR SX	1.5	oz/a	PRE							
8	ROUNDUP POWERMAX	22	oz/a	POST	C						
8	AMS	4	qt/a	POST							
9	AUTHORITY	2.75	oz/a	PRE	A	2 b	57 b-e	17 bc	100 a	100 a	2 a
9	PURSUIT	0.6	oz/a	PRE							
9	ROUNDUP POWERMAX	22	oz/a	POST	C						
9	AMS	4	qt/a	POST							
10	AUTHORITY FIRST	3	oz/a	PRE	A	1 b	53 b-e	47 abc	100 a	100 a	0 a
10	ROUNDUP POWERMAX	22	oz/a	POST	C						
10	AMS	4	qt/a	POST							
11	AUTHORITY MTZ	12	oz/a	PRE	A	0 b	33 c-g	0 c	100 a	100 a	2 a
11	ROUNDUP POWERMAX	22	oz/a	POST	C						
11	AMS	4	qt/a	POST							
12	PREFIX	2	pt/a	PRE	A	0 b	77 ab	17 bc	80 a	78 ab	0 a
12	TOUCHDOWN TOTAL	24	oz/a	POST	C						
12	AMS	4	qt/a	POST							
13	CANOPY	4	oz/a	PRE	A	4 ab	40 b-f	47 abc	100 a	100 a	0 a
13	ROUNDUP POWERMAX	22	oz/a	POST	C						
13	AMS	4	qt/a	POST							

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					SETFA	AMBTR	AMARE	ABUTH			
Weed Code					GLXMA					GLXMA	
Crop Code					PHYTO	CONTROL	CONTROL	CONTROL	CONTROL	PHYTO	
Rating Data Type					PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Rating Unit					Jun/25/2008	Jun/25/2008	Jun/25/2008	Jun/25/2008	Jun/25/2008	Jul/21/2008	
Rating Date					AT POST	AT POST	AT POST	AT POST	AT POST	14 DA-D	
Trt-Eval Interval					0	0	0	0	0	0	
# Subsamples, Dec.					0	0	0	0	0	0	
Trt No.	Treatment Name	Product Rate	Product Unit	Grow Stg	Appl Code	7	8	9	10	11	12
14	ENVIVE 3.5 OZ					1 b	67 bcd	70 ab	100 a	100 a	0 a
14	CLASSIC	1.28 oz/a		PRE	A						
14	HARMONY GT	0.208 oz/a		PRE							
14	VALOR SX	1.96 oz/a		PRE							
14	ROUNDUP POWERMAX	22 oz/a		POST	C						
14	AMS	4 qt/a		POST							
15	SONIC	3 oz/a		PRE	A	0 b	33 c-g	70 ab	100 a	100 a	0 a
15	DURANGO	24 oz/a		POST	C						
15	AMS	4 qt/a		POST							
16	SONIC	4.5 oz/a		PRE	A	1 b	53 b-e	86 a	100 a	100 a	0 a
16	DURANGO	24 oz/a		POST	C						
16	AMS	4 qt/a		POST							
17	DURANGO	24 oz/a		POST	B	0 b	20 efg	23 bc	83 a	83 a	3 a
17	FIRSTRATE	0.3 oz/a		POST							
17	AMS	4 qt/a		POST							
17	DURANGO	24 oz/a		LPO	E						
17	AMS	4 qt/a		LPO							
18	CADET	0.4 oz/a		POST	B	7 a	23 efg	27 bc	90 a	100 a	5 a
18	ROUNDUP POWERMAX	22 oz/a		POST							
18	AMS	4 qt/a		POST							
19	DUAL II MAGNUM	1.6 pt/a		PRE	A	0 b	100 a	47 abc	100 a	100 a	3 a
19	CADET	0.6 oz/a		POST	B						
19	COC	0.8 qt/a		POST							
20	RESOURCE	10 oz/a		POST	B	0 b	40 b-f	80 a	95 a	97 a	5 a
20	ROUNDUP POWERMAX	22 oz/a		POST							
20	AMS	4 qt/a		POST							
21	ROUNDUP POWERMAX	22 oz/a		POST	B	0 b	27 d-g	20 bc	47 b	59 b	7 a
21	AMS	4 qt/a		POST							
22	UTC					0 b	0 g	0 c	0 c	0 c	0 a
LSD (P=.05)						2.7	23.2	31.1	15.8	16.2	4.6
Standard Deviation						1.7	14.1	18.9	9.6	9.8	2.8
CV						108.71	31.15	41.61	10.77	10.96	136.94
Bartlett's X2						9.908	15.687	15.896	7.428	7.778	4.126
P(Bartlett's X2)						0.539	0.475	0.32	0.386	0.169	0.966
Replicate F						3.569	4.981	0.805	1.065	0.596	4.490
Replicate Prob(F)						0.0370	0.0114	0.4540	0.3540	0.5555	0.0171
Treatment F						4.997	9.254	9.031	17.808	16.350	2.421
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001	0.0001	0.0073

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)
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					SETFA	AMBTR	AMARE	ABUTH	SETFA	ECHCG	
Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	CONTROL PERCENT	
Trt-Eval Interval					14 DA-D	14 DA-D	14 DA-D	14 DA-D	57 DA-B	57 DA-B	
# Subsamples, Dec.					0	0	0	0	0	0	
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	13	14	15	16	17	18
1	METRIBUZIN	10.7 oz/a		PRE	A	95 a	87 ab	100 a	100 a	100 a	100 a
1	GLYFOS XTRA	32 oz/a		42 DAPL	D						
1	AMS	2 qt/a		42 DAPL							
2	METRIBUZIN	21.3 oz/a		PRE	A	95 a	87 ab	100 a	100 a	100 a	99 a
2	GLYFOS XTRA	32 oz/a		42 DAPL	D						
2	AMS	2 qt/a		42 DAPL							
3	METRIBUZIN	10.7 oz/a		PRE	A	92 a	85 ab	100 a	100 a	100 a	100 a
3	PROWL H2O	36 oz/a		PRE							
3	GLYFOS XTRA	32 oz/a		42 DAPL	D						
3	AMS	2 qt/a		42 DAPL							
4	SENCOR DF	10.7 oz/a		PRE	A	98 a	88 ab	100 a	100 a	100 a	100 a
4	GLYFOS XTRA	32 oz/a		42 DAPL	D						
4	AMS	2 qt/a		42 DAPL							
5	VALOR XLT 3 OZ					91 a	100 a	100 a	100 a	93 a	84 a
5	VALOR SX	1.76 oz/a		PRE	A						
5	CLASSIC	1.24 oz/a		PRE							
5	ROUNDUP POWERMAX	22 oz/a		POST	C						
5	AMS	4 qt/a		POST							
6	VALOR XLT 3.5 OZ					99 a	100 a	100 a	100 a	100 a	98 a
6	VALOR SX	2.05 oz/a		PRE	A						
6	CLASSIC	1.45 oz/a		PRE							
6	ROUNDUP POWERMAX	22 oz/a		POST	C						
6	AMS	4 qt/a		POST							
7	GANGSTER 2.4 OZ					99 a	88 ab	100 a	100 a	100 a	99 a
7	FIRSTRATE	0.4 oz/a		PRE	A						
7	VALOR SX	2 oz/a		PRE							
7	ROUNDUP POWERMAX	22 oz/a		POST	C						
7	AMS	4 qt/a		POST							
8	GANGSTER 1.8 OZ					97 a	93 a	100 a	100 a	100 a	90 a
8	FIRSTRATE	0.3 oz/a		PRE	A						
8	VALOR SX	1.5 oz/a		PRE							
8	ROUNDUP POWERMAX	22 oz/a		POST	C						
8	AMS	4 qt/a		POST							
9	AUTHORITY	2.75 oz/a		PRE	A	95 a	85 ab	100 a	100 a	100 a	93 a
9	PURSUIT	0.6 oz/a		PRE							
9	ROUNDUP POWERMAX	22 oz/a		POST	C						
9	AMS	4 qt/a		POST							
10	AUTHORITY FIRST	3 oz/a		PRE	A	98 a	92 a	100 a	100 a	100 a	95 a
10	ROUNDUP POWERMAX	22 oz/a		POST	C						
10	AMS	4 qt/a		POST							
11	AUTHORITY MTZ	12 oz/a		PRE	A	92 a	77 abc	100 a	100 a	100 a	95 a
11	ROUNDUP POWERMAX	22 oz/a		POST	C						
11	AMS	4 qt/a		POST							
12	PREFIX	2 pt/a		PRE	A	98 a	92 a	100 a	97 a	100 a	97 a
12	TOUCHDOWN TOTAL	24 oz/a		POST	C						
12	AMS	4 qt/a		POST							
13	CANOPY	4 oz/a		PRE	A	100 a	98 a	100 a	100 a	100 a	98 a
13	ROUNDUP POWERMAX	22 oz/a		POST	C						
13	AMS	4 qt/a		POST							

Ohio State University
Horticulture and Crop Science

Weed Code					SETFA	AMBTR	AMARE	ABUTH	SETFA	ECHCG	
Crop Code					CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Data Type					PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Rating Unit					Jul/21/2008	Jul/21/2008	Jul/21/2008	Jul/21/2008	Aug/19/2008	Aug/19/2008	
Rating Date					14 DA-D	14 DA-D	14 DA-D	14 DA-D	57 DA-B	57 DA-B	
Trt-Eval Interval					0	0	0	0	0	0	
# Subsamples, Dec.											
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	13	14	15	16	17	18
14	ENVIVE 3.5 OZ					100 a	99 a	100 a	100 a	100 a	98 a
14	CLASSIC	1.28	oz/a	PRE	A						
14	HARMONY GT	0.208	oz/a	PRE							
14	VALOR SX	1.96	oz/a	PRE							
14	ROUNDUP POWERMAX	22	oz/a	POST	C						
14	AMS	4	qt/a	POST							
15	SONIC	3	oz/a	PRE	A	100 a	97 a	100 a	100 a	100 a	100 a
15	DURANGO	24	oz/a	POST	C						
15	AMS	4	qt/a	POST							
16	SONIC	4.5	oz/a	PRE	A	99 a	93 a	100 a	100 a	100 a	98 a
16	DURANGO	24	oz/a	POST	C						
16	AMS	4	qt/a	POST							
17	DURANGO	24	oz/a	POST	B	100 a	100 a	100 a	100 a	100 a	100 a
17	FIRSTRATE	0.3	oz/a	POST							
17	AMS	4	qt/a	POST							
17	DURANGO	24	oz/a	LPO	E						
17	AMS	4	qt/a	LPO							
18	CADET	0.4	oz/a	POST	B	97 a	68 bc	93 a	100 a	100 a	95 a
18	ROUNDUP POWERMAX	22	oz/a	POST							
18	AMS	4	qt/a	POST							
19	DUAL II MAGNUM	1.6	pt/a	PRE	A	90 a	0 d	100 a	100 a	93 a	98 a
19	CADET	0.6	oz/a	POST	B						
19	COC	0.8	qt/a	POST							
20	RESOURCE	10	oz/a	POST	B	91 a	68 bc	92 a	97 a	100 a	88 a
20	ROUNDUP POWERMAX	22	oz/a	POST							
20	AMS	4	qt/a	POST							
21	ROUNDUP POWERMAX	22	oz/a	POST	B	88 a	63 c	80 b	100 a	100 a	93 a
21	AMS	4	qt/a	POST							
22	UTC					0 b	0 d	0 c	0 b	0 b	0 b
LSD (P=.05)						8.2	13.3	4.9	2.2	5.8	9.9
Standard Deviation						5.0	8.1	3.0	1.4	3.5	6.0
CV						5.43	10.09	3.15	1.43	3.71	6.53
Bartlett's X2						22.123	24.141	0.575	0.883	0.0	43.136
P(Bartlett's X2)						0.139	0.063	0.75	0.348	.	0.001*
Replicate F						2.724	0.167	0.909	1.427	0.488	0.115
Replicate Prob(F)						0.0772	0.8464	0.4106	0.2514	0.6171	0.8916
Treatment F						52.594	35.991	158.163	730.874	109.419	36.492
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)
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Ohio State University
Horticulture and Crop Science

Weed Code					AMBTR	AMARE	ABUTH	
Crop Code					CONTROL	CONTROL	CONTROL	
Rating Data Type					PERCENT	PERCENT	PERCENT	
Rating Unit					Aug/19/2008	Aug/19/2008	Aug/19/2008	
Rating Date					57 DA-B	57 DA-B	57 DA-B	
Trt-Eval Interval					0	0	0	
# Subsamples, Dec.								
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	19	20	21
1	METRIBUZIN	10.7	oz/a	PRE	A	97 a	100 a	100 a
1	GLYFOS XTRA	32	oz/a	42 DAPL	D			
1	AMS	2	qt/a	42 DAPL				
2	METRIBUZIN	21.3	oz/a	PRE	A	100 a	100 a	100 a
2	GLYFOS XTRA	32	oz/a	42 DAPL	D			
2	AMS	2	qt/a	42 DAPL				
3	METRIBUZIN	10.7	oz/a	PRE	A	100 a	100 a	100 a
3	PROWL H20	36	oz/a	PRE				
3	GLYFOS XTRA	32	oz/a	42 DAPL	D			
3	AMS	2	qt/a	42 DAPL				
4	SENCOR DF	10.7	oz/a	PRE	A	100 a	100 a	100 a
4	GLYFOS XTRA	32	oz/a	42 DAPL	D			
4	AMS	2	qt/a	42 DAPL				
5	VALOR XLT 3 OZ					90 a	100 a	100 a
5	VALOR SX	1.76	oz/a	PRE	A			
5	CLASSIC	1.24	oz/a	PRE				
5	ROUNDUP POWERMAX	22	oz/a	POST	C			
5	AMS	4	qt/a	POST				
6	VALOR XLT 3.5 OZ					98 a	100 a	100 a
6	VALOR SX	2.05	oz/a	PRE	A			
6	CLASSIC	1.45	oz/a	PRE				
6	ROUNDUP POWERMAX	22	oz/a	POST	C			
6	AMS	4	qt/a	POST				
7	GANGSTER 2.4 OZ					92 a	100 a	100 a
7	FIRSTRATE	0.4	oz/a	PRE	A			
7	VALOR SX	2	oz/a	PRE				
7	ROUNDUP POWERMAX	22	oz/a	POST	C			
7	AMS	4	qt/a	POST				
8	GANGSTER 1.8 OZ					87 a	100 a	100 a
8	FIRSTRATE	0.3	oz/a	PRE	A			
8	VALOR SX	1.5	oz/a	PRE				
8	ROUNDUP POWERMAX	22	oz/a	POST	C			
8	AMS	4	qt/a	POST				
9	AUTHORITY	2.75	oz/a	PRE	A	83 ab	100 a	100 a
9	PURSUIT	0.6	oz/a	PRE				
9	ROUNDUP POWERMAX	22	oz/a	POST	C			
9	AMS	4	qt/a	POST				
10	AUTHORITY FIRST	3	oz/a	PRE	A	90 a	100 a	100 a
10	ROUNDUP POWERMAX	22	oz/a	POST	C			
10	AMS	4	qt/a	POST				
11	AUTHORITY MTZ	12	oz/a	PRE	A	80 ab	100 a	100 a
11	ROUNDUP POWERMAX	22	oz/a	POST	C			
11	AMS	4	qt/a	POST				
12	PREFIX	2	pt/a	PRE	A	95 a	98 a	100 a
12	TOUCHDOWN TOTAL	24	oz/a	POST	C			
12	AMS	4	qt/a	POST				
13	CANOPY	4	oz/a	PRE	A	92 a	100 a	100 a
13	ROUNDUP POWERMAX	22	oz/a	POST	C			
13	AMS	4	qt/a	POST				

Ohio State University
Horticulture and Crop Science

Weed Code	AMBTR	AMARE	ABUTH
Crop Code			
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Date	Aug/19/2008	Aug/19/2008	Aug/19/2008
Trt-Eval Interval	57 DA-B	57 DA-B	57 DA-B
# Subsamples, Dec.	0	0	0

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	19	20	21
14	ENVIVE 3.5 OZ					95 a	100 a	100 a
14	CLASSIC	1.28	oz/a	PRE	A			
14	HARMONY GT	0.208	oz/a	PRE				
14	VALOR SX	1.96	oz/a	PRE				
14	ROUNDUP POWERMAX	22	oz/a	POST	C			
14	AMS	4	qt/a	POST				
15	SONIC	3	oz/a	PRE	A	95 a	100 a	100 a
15	DURANGO	24	oz/a	POST	C			
15	AMS	4	qt/a	POST				
16	SONIC	4.5	oz/a	PRE	A	93 a	100 a	100 a
16	DURANGO	24	oz/a	POST	C			
16	AMS	4	qt/a	POST				
17	DURANGO	24	oz/a	POST	B	100 a	100 a	100 a
17	FIRSTRATE	0.3	oz/a	POST				
17	AMS	4	qt/a	POST				
17	DURANGO	24	oz/a	LPO	E			
17	AMS	4	qt/a	LPO				
18	CADET	0.4	oz/a	POST	B	76 abc	88 b	100 a
18	ROUNDUP POWERMAX	22	oz/a	POST				
18	AMS	4	qt/a	POST				
19	DUAL II MAGNUM	1.6	pt/a	PRE	A	0 d	100 a	100 a
19	CADET	0.6	oz/a	POST	B			
19	COC	0.8	qt/a	POST				
20	RESOURCE	10	oz/a	POST	B	65 bc	100 a	100 a
20	ROUNDUP POWERMAX	22	oz/a	POST				
20	AMS	4	qt/a	POST				
21	ROUNDUP POWERMAX	22	oz/a	POST	B	58 c	100 a	100 a
21	AMS	4	qt/a	POST				
22	UTC					0 d	0 c	0 b
LSD (P=.05)						14.5	3.8	0.0
Standard Deviation						8.8	2.3	0.0
CV						10.86	2.41	0.0
Bartlett's X2						17.361	2.624	0.0
P(Bartlett's X2)						0.237	0.105	.
Replicate F						0.705	1.381	0.000
Replicate Prob(F)						0.5001	0.2626	1.0000
Treatment F						31.402	261.855	0.000
Treatment Prob(F)						0.0001	0.0001	1.0000

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)
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