

Ohio State University
Horticulture and Crop Science

WEED CONTROL SYSTEMS IN CORN WITH IMPACT

08-OH-TPZ-H-100-101

Trial ID: 08IMPACT

Study Dir.: Anthony F. Dobbels

Location: WESTERN BRANCH F-7

Investigator: Dr. Mark M. Loux

GENERAL TRIAL INFORMATION

Study Director: Anthony F. Dobbels

Investigator: Dr. Mark M. Loux

TRIAL LOCATION

City: SOUTH CHALRESTON

State/Prov.: OH

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. ABUTH	Velvetleaf	Abutilon theophrasti
3. CHEAL	Common lambsquarters	Chenopodium album
4. POLPY	Pennsylvania smartweed	Polygonum pennsylvanicum
5. AMBTR	Giant ragweed	Ambrosia trifida
6. AMBEL	Common ragweed	Ambrosia artemisiifolia

Crop 1: ZEAMX CORN, FIELD

Variety: SEED CONSULTANTS SC11BR16

Planting Date: Apr/24/2008

Planting Method: JOHN DEERE 7200

Rate: 32097 SEED/A

Depth: 1.5 IN

Row Spacing: 30 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:	1.8	Texture:	SILT LOAM
pH:	6.1	Soil Name:	CROSBY
CEC:	15.8	Fert. Level:	GOOD

APPLICATION DESCRIPTION

	A	B	C
Application Date:	Apr/24/2008	May/29/2008	Jun/06/2008
Time of Day:	11:00 A.M.	9:30 A.M.	8:30 A.M.
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EPO	POST
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	62 F	63 F	81 F
% Relative Humidity:	39	49	71
Wind Velocity, Unit:	8 E	3 E	7 S
Soil Temp., Unit:	54 F	58 F	69 F
Soil Moisture:	DRY/MOIST	DRY/MOIST	WET/WET
% Cloud Cover:	1	0	0

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	ZEAMX ZEAMX V3	ZEAMX V5	
Stage Scale:	DESC	DESC	
Height, Unit:	6 IN	11 IN	

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	SETFA SETFA 5"	SETFA	
Stage Scale:	3 LVS		
Density, Unit:	410 M2		
Weed 2 Code, Stage:	ABUTH ABUTH 1	ABUTH 4-6"	
Stage Scale:	2 LVS	>12 LVS	
Density, Unit:	4 M2	4 M2	
Weed 3 Code, Stage:	CHEAL CHEAL .25-1"	CHEAL 4-10"	
Stage Scale:	2-4 LVS	>12 LVS	
Density, Unit:	146 M2	146 M2	
Weed 4 Code, Stage:	POLPY POLPY 2"	POLPY 10"	
Stage Scale:	3 LVS	7-12 LVS	
Density, Unit:	24 M2	24 M2	
Weed 5 Code, Stage:	AMBTR AMBTR 3-8"	AMBTR	
Stage Scale:	4 LVS		
Density, Unit:	6 M2		
Weed 6 Code, Stage:	AMBEL AMBEL 2"	AMBEL 5-7"	
Stage Scale:	4 LVS	6-8 LVS	
Density, Unit:	5 M2	5 M2	

Ohio State University
Horticulture and Crop Science

APPLICATION EQUIPMENT

	A		B		C	
Appl. Equipment:	BACKPACK		BACKPACK		BACKPACK	
Operating Pressure:	53		53		53	
Nozzle Type:	DG		DG		DG	
Nozzle Size:	11002		11002		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	20	GPA	20	GPA
Propellant:	CO2		CO2		CO2	

Ohio State University
Horticulture and Crop Science

WEED CONTROL SYSTEMS IN CORN WITH IMPACT

08-OH-TPZ-H-100-101

Trial ID: 08IMPACT

Study Dir.: Anthony F. Dobbels

Location: WESTERN BRANCH F-7

Investigator: Dr. Mark M. Loux

Weed Code	ZEAMX	ZEAMX	SETFA	AMBTR	AMBEL	CHEAL
Crop Code	PHYTO	PHYTO	CONTROL	CONTROL	CONTROL	CONTROL
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit	Jun/05/2008	Jun/05/2008	Jun/05/2008	Jun/05/2008	Jun/05/2008	Jun/05/2008
Rating Date	V-5					
Crop Stage	7 DA-B	AT POST	AT POST	AT POST	AT POST	AT POST
Trt-Eval Interval	0	0	0	0	0	0
# Subsamples, Dec.						

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6
1	UTC					0 a	0 a	0 g	0 d	0 c	0 b
2	DUAL II MAGNUM	0.8 pt/a		PRE	A	0 a	0 a	70 e	0 d	0 c	0 b
3	DUAL II MAGNUM	0.8 pt/a		PRE	A	0 a	1 a	95 b	100 a	99 a	100 a
3	IMPACT	0.75 oz/a		MPO	B						
3	ATRAZINE	1 pt/a		MPO							
3	MSO	0.8 qt/a		MPO							
3	28%	2 qt/a		MPO							
4	DUAL II MAGNUM	0.8 pt/a		PRE	A	0 a	1 a	67 e	90 ab	100 a	100 a
4	CALLISTO	3 oz/a		MPO	B						
4	ATRAZINE	1 pt/a		MPO							
4	COC	0.8 qt/a		MPO							
4	28%	2 qt/a		MPO							
5	DUAL II MAGNUM	0.8 pt/a		PRE	A	0 a	0 a	87 c	100 a	100 a	100 a
5	LAUDIS	3 oz/a		MPO	B						
5	ATRAZINE	1 pt/a		MPO							
5	COC	0.8 qt/a		MPO							
5	28%	2 qt/a		MPO							
6	IMPACT	0.75 oz/a		MPO	B	0 a	0 a	82 d	100 a	100 a	100 a
6	ATRAZINE	1 pt/a		MPO							
6	MSO	0.8 qt/a		MPO							
6	28%	2 qt/a		MPO							
7	LAUDIS	3 oz/a		MPO	B	0 a	7 a	68 e	100 a	100 a	100 a
7	ATRAZINE	1 pt/a		MPO							
7	COC	0.8 qt/a		MPO							
7	28%	2 qt/a		MPO							
8	DUAL II MAGNUM	0.8 pt/a		PRE	A	0 a	2 a	100 a	74 c	86 ab	100 a
8	IMPACT	0.503 oz/a		POST	C						
8	ROUNDUP POWERMAX	21.3 oz/a		POST							
8	AMS	2 qt/a		POST							
9	DUAL II MAGNUM	0.8 pt/a		PRE	A	0 a	1 a	100 a	68 c	77 b	100 a
9	IMPACT	0.503 oz/a		POST	C						
9	ROUNDUP POWERMAX	21.3 oz/a		POST							
9	ATRAZINE	1 pt/a		POST							
9	AMS	2 qt/a		POST							
10	DUAL II MAGNUM	0.8 pt/a		PRE	A	0 a	3 a	100 a	85 b	84 b	100 a
10	ROUNDUP POWERMAX	21.3 oz/a		POST	C						
10	AMS	2 qt/a		POST							
11	LAUDIS	3 oz/a		MPO	B	0 a	3 a	60 f	100 a	100 a	100 a
11	ATRAZINE	1 pt/a		MPO							
11	MSO	0.8 qt/a		MPO							
11	28%	2 qt/a		MPO							
12	IMPACT	0.503 oz/a		MPO	B	0 a	1 a	97 ab	100 a	100 a	100 a
12	ROUNDUP POWERMAX	21.3 oz/a		MPO							
12	ATRAZINE	1 pt/a		MPO							
12	AMS	2 qt/a		MPO							
LSD (P=.05)						0.0	4.1	3.5	8.2	9.1	0.0
Standard Deviation						0.0	2.4	2.1	4.9	5.4	0.0
CV						0.0	164.55	2.66	6.35	6.83	0.0
Bartlett's X2						0.0	10.116	3.215	1.826	6.378	0.0
P(Bartlett's X2)						.	0.182	0.36	0.609	0.095	.

Ohio State University
Horticulture and Crop Science

Weed Code	ZEAMX		SETFA	AMBTR	AMBEL	CHEAL					
Crop Code	PHYTO	PHYTO	CONTROL	CONTROL	CONTROL	CONTROL					
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT					
Rating Unit	Jun/05/2008	Jun/05/2008	Jun/05/2008	Jun/05/2008	Jun/05/2008	Jun/05/2008					
Rating Date	V-5										
Crop Stage	7 DA-B	AT POST	AT POST	AT POST	AT POST	AT POST					
Trt-Eval Interval	0	0	0	0	0	0					
# Subsamples, Dec.											
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6
Replicate F						0.000	4.336	1.432	1.614	2.328	0.000
Replicate Prob(F)						1.0000	0.0259	0.2603	0.2229	0.1210	1.0000
Treatment F						0.000	1.967	574.983	177.616	147.050	0.000
Treatment Prob(F)						1.0000	0.0852	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.

Ohio State University
Horticulture and Crop Science

					ABUTH	POLPY	ZEAMX	SETFA	AMBTR	AMBEL	
					CONTROL	CONTROL	PHYTO	CONTROL	CONTROL	CONTROL	
					PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
					Jun/05/2008	Jun/05/2008	Jun/11/2008	Jun/11/2008	Jun/11/2008	Jun/11/2008	
					AT POST	AT POST	13 DA-B	13 DA-B	13 DA-B	13 DA-B	
					0	0	0	0	0	0	
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	7	8	9	10	11	12
1	UTC					0 b	0 d	0 a	0 g	0 d	0 c
2	DUAL II MAGNUM	0.8 pt/a		PRE	A	0 b	0 d	0 a	70 e	0 d	0 c
3	DUAL II MAGNUM	0.8 pt/a		PRE	A	100 a	73 abc	1 a	95 b	100 a	99 a
3	IMPACT	0.75 oz/a		MPO	B						
3	ATRAZINE	1 pt/a		MPO							
3	MSO	0.8 qt/a		MPO							
3	28%	2 qt/a		MPO							
4	DUAL II MAGNUM	0.8 pt/a		PRE	A	100 a	80 ab	1 a	67 e	90 ab	100 a
4	CALLISTO	3 oz/a		MPO	B						
4	ATRAZINE	1 pt/a		MPO							
4	COC	0.8 qt/a		MPO							
4	28%	2 qt/a		MPO							
5	DUAL II MAGNUM	0.8 pt/a		PRE	A	100 a	99 a	0 a	87 c	100 a	100 a
5	LAUDIS	3 oz/a		MPO	B						
5	ATRAZINE	1 pt/a		MPO							
5	COC	0.8 qt/a		MPO							
5	28%	2 qt/a		MPO							
6	IMPACT	0.75 oz/a		MPO	B	100 a	87 ab	0 a	82 d	100 a	100 a
6	ATRAZINE	1 pt/a		MPO							
6	MSO	0.8 qt/a		MPO							
6	28%	2 qt/a		MPO							
7	LAUDIS	3 oz/a		MPO	B	100 a	92 ab	7 a	68 e	100 a	100 a
7	ATRAZINE	1 pt/a		MPO							
7	COC	0.8 qt/a		MPO							
7	28%	2 qt/a		MPO							
8	DUAL II MAGNUM	0.8 pt/a		PRE	A	100 a	67 bc	2 a	100 a	74 c	86 ab
8	IMPACT	0.503 oz/a		POST	C						
8	ROUNDUP POWERMAX	21.3 oz/a		POST							
8	AMS	2 qt/a		POST							
9	DUAL II MAGNUM	0.8 pt/a		PRE	A	100 a	73 abc	1 a	100 a	68 c	77 b
9	IMPACT	0.503 oz/a		POST	C						
9	ROUNDUP POWERMAX	21.3 oz/a		POST							
9	ATRAZINE	1 pt/a		POST							
9	AMS	2 qt/a		POST							
10	DUAL II MAGNUM	0.8 pt/a		PRE	A	100 a	53 c	3 a	100 a	85 b	84 b
10	ROUNDUP POWERMAX	21.3 oz/a		POST	C						
10	AMS	2 qt/a		POST							
11	LAUDIS	3 oz/a		MPO	B	100 a	100 a	3 a	60 f	100 a	100 a
11	ATRAZINE	1 pt/a		MPO							
11	MSO	0.8 qt/a		MPO							
11	28%	2 qt/a		MPO							
12	IMPACT	0.503 oz/a		MPO	B	100 a	100 a	1 a	97 ab	100 a	100 a
12	ROUNDUP POWERMAX	21.3 oz/a		MPO							
12	ATRAZINE	1 pt/a		MPO							
12	AMS	2 qt/a		MPO							
LSD (P=.05)						0.0	17.1	4.1	3.5	8.2	9.1
Standard Deviation						0.0	10.1	2.4	2.1	4.9	5.4
CV						0.0	14.71	164.55	2.66	6.35	6.83
Bartlett's X2						0.0	10.633	10.116	3.215	1.826	6.378
P(Bartlett's X2)						.	0.155	0.182	0.36	0.609	0.095

Ohio State University
Horticulture and Crop Science

Weed Code	ABUTH	POLPY		SETFA	AMBTR	AMBEL
Crop Code			ZEAMX			
Rating Data Type	CONTROL	CONTROL	PHYTO	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	Jun/05/2008	Jun/05/2008	Jun/11/2008	Jun/11/2008	Jun/11/2008	Jun/11/2008
Crop Stage						
Trt-Eval Interval	AT POST	AT POST	13 DA-B	13 DA-B	13 DA-B	13 DA-B
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	7	8	9	10	11	12
	Replicate F					0.000	0.482	4.336	1.432	1.614	2.328
	Replicate Prob(F)					1.0000	0.6239	0.0259	0.2603	0.2229	0.1210
	Treatment F					0.000	36.292	1.967	574.983	177.616	147.050
	Treatment Prob(F)					1.0000	0.0001	0.0852	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.

Ohio State University
Horticulture and Crop Science

Weed Code					CHEAL	ABUTH	POLPY	SETFA	AMBTR	AMBEL	
Crop Code					CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Data Type					PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Rating Unit					Jun/11/2008	Jun/11/2008	Jun/11/2008	Jun/25/2008	Jun/25/2008	Jun/25/2008	
Rating Date											
Crop Stage											
Trt-Eval Interval					13 DA-B	13 DA-B	13 DA-B	27 DA-B	27 DA-B	27 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	UTC					0 b	0 b	0 d	0 e	0 b	0 b
2	DUAL II MAGNUM	0.8	pt/a	PRE	A	0 b	0 b	0 d	86 ab	0 b	0 b
3	DUAL II MAGNUM	0.8	pt/a	PRE	A	100 a	100 a	73 abc	77 bc	92 a	99 a
3	IMPACT	0.75	oz/a	MPO	B						
3	ATRAZINE	1	pt/a	MPO							
3	MSO	0.8	qt/a	MPO							
3	28%	2	qt/a	MPO							
4	DUAL II MAGNUM	0.8	pt/a	PRE	A	100 a	100 a	80 ab	53 d	100 a	100 a
4	CALLISTO	3	oz/a	MPO	B						
4	ATRAZINE	1	pt/a	MPO							
4	COC	0.8	qt/a	MPO							
4	28%	2	qt/a	MPO							
5	DUAL II MAGNUM	0.8	pt/a	PRE	A	100 a	100 a	99 a	76 bc	96 a	100 a
5	LAUDIS	3	oz/a	MPO	B						
5	ATRAZINE	1	pt/a	MPO							
5	COC	0.8	qt/a	MPO							
5	28%	2	qt/a	MPO							
6	IMPACT	0.75	oz/a	MPO	B	100 a	100 a	87 ab	65 c	94 a	100 a
6	ATRAZINE	1	pt/a	MPO							
6	MSO	0.8	qt/a	MPO							
6	28%	2	qt/a	MPO							
7	LAUDIS	3	oz/a	MPO	B	100 a	100 a	92 ab	50 d	100 a	100 a
7	ATRAZINE	1	pt/a	MPO							
7	COC	0.8	qt/a	MPO							
7	28%	2	qt/a	MPO							
8	DUAL II MAGNUM	0.8	pt/a	PRE	A	100 a	100 a	67 bc	91 a	92 a	100 a
8	IMPACT	0.503	oz/a	POST	C						
8	ROUNDUP POWERMAX	21.3	oz/a	POST							
8	AMS	2	qt/a	POST							
9	DUAL II MAGNUM	0.8	pt/a	PRE	A	100 a	100 a	73 abc	95 a	92 a	100 a
9	IMPACT	0.503	oz/a	POST	C						
9	ROUNDUP POWERMAX	21.3	oz/a	POST							
9	ATRAZINE	1	pt/a	POST							
9	AMS	2	qt/a	POST							
10	DUAL II MAGNUM	0.8	pt/a	PRE	A	100 a	100 a	53 c	95 a	93 a	95 a
10	ROUNDUP POWERMAX	21.3	oz/a	POST	C						
10	AMS	2	qt/a	POST							
11	LAUDIS	3	oz/a	MPO	B	100 a	100 a	100 a	47 d	93 a	100 a
11	ATRAZINE	1	pt/a	MPO							
11	MSO	0.8	qt/a	MPO							
11	28%	2	qt/a	MPO							
12	IMPACT	0.503	oz/a	MPO	B	100 a	100 a	100 a	70 c	90 a	100 a
12	ROUNDUP POWERMAX	21.3	oz/a	MPO							
12	ATRAZINE	1	pt/a	MPO							
12	AMS	2	qt/a	MPO							
LSD (P=.05)						0.0	0.0	17.1	11.5	12.4	4.3
Standard Deviation						0.0	0.0	10.1	6.8	7.3	2.5
CV						0.0	0.0	14.71	10.12	9.29	3.06
Bartlett's X2						0.0	0.0	10.633	10.826	7.644	5.248
P(Bartlett's X2)						.	.	0.155	0.288	0.365	0.022*

Ohio State University
Horticulture and Crop Science

Weed Code	CHEAL	ABUTH	POLPY	SETFA	AMBTR	AMBEL
Crop Code						
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	Jun/11/2008	Jun/11/2008	Jun/11/2008	Jun/25/2008	Jun/25/2008	Jun/25/2008
Crop Stage						
Trt-Eval Interval	13 DA-B	13 DA-B	13 DA-B	27 DA-B	27 DA-B	27 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
---------	----------------	--------------	-------------------	----------	-----------	----	----	----	----	----	----

Replicate F						0.000	0.000	0.482	0.967	0.011	0.859
Replicate Prob(F)						1.0000	1.0000	0.6239	0.3958	0.9891	0.4374
Treatment F						0.000	0.000	36.292	47.756	76.347	699.121
Treatment Prob(F)						1.0000	1.0000	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.

Ohio State University
Horticulture and Crop Science

					CHEAL	POLPY	ABUTH	SETFA	AMBTR	AMBEL	
					CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
					PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
					Jun/25/2008	Jun/25/2008	Jun/25/2008	Jul/09/2008	Jul/09/2008	Jul/09/2008	
					27 DA-B	27 DA-B	27 DA-B	41 DA-B	41 DA-B	41 DA-B	
					0	0	0	0	0	0	
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	19	20	21	22	23	24
1	UTC					0 c	0 b	0 b	0 f	0 b	0 c
2	DUAL II MAGNUM	0.8	pt/a	PRE	A	7 b	0 b	0 b	82 abc	0 b	0 c
3	DUAL II MAGNUM	0.8	pt/a	PRE	A	99 a	79 a	92 a	79 abc	87 a	100 a
3	IMPACT	0.75	oz/a	MPO	B						
3	ATRAZINE	1	pt/a	MPO							
3	MSO	0.8	qt/a	MPO							
3	28%	2	qt/a	MPO							
4	DUAL II MAGNUM	0.8	pt/a	PRE	A	100 a	82 a	100 a	62 de	92 a	100 a
4	CALLISTO	3	oz/a	MPO	B						
4	ATRAZINE	1	pt/a	MPO							
4	COC	0.8	qt/a	MPO							
4	28%	2	qt/a	MPO							
5	DUAL II MAGNUM	0.8	pt/a	PRE	A	99 a	93 a	99 a	76 abc	97 a	100 a
5	LAUDIS	3	oz/a	MPO	B						
5	ATRAZINE	1	pt/a	MPO							
5	COC	0.8	qt/a	MPO							
5	28%	2	qt/a	MPO							
6	IMPACT	0.75	oz/a	MPO	B	97 a	62 a	93 a	70 bcd	93 a	99 a
6	ATRAZINE	1	pt/a	MPO							
6	MSO	0.8	qt/a	MPO							
6	28%	2	qt/a	MPO							
7	LAUDIS	3	oz/a	MPO	B	100 a	85 a	96 a	60 de	100 a	100 a
7	ATRAZINE	1	pt/a	MPO							
7	COC	0.8	qt/a	MPO							
7	28%	2	qt/a	MPO							
8	DUAL II MAGNUM	0.8	pt/a	PRE	A	99 a	93 a	95 a	83 ab	87 a	100 a
8	IMPACT	0.503	oz/a	POST	C						
8	ROUNDUP POWERMAX	21.3	oz/a	POST							
8	AMS	2	qt/a	POST							
9	DUAL II MAGNUM	0.8	pt/a	PRE	A	100 a	92 a	93 a	85 a	90 a	92 ab
9	IMPACT	0.503	oz/a	POST	C						
9	ROUNDUP POWERMAX	21.3	oz/a	POST							
9	ATRAZINE	1	pt/a	POST							
9	AMS	2	qt/a	POST							
10	DUAL II MAGNUM	0.8	pt/a	PRE	A	96 a	90 a	97 a	81 abc	87 a	86 b
10	ROUNDUP POWERMAX	21.3	oz/a	POST	C						
10	AMS	2	qt/a	POST							
11	LAUDIS	3	oz/a	MPO	B	100 a	90 a	100 a	57 e	94 a	100 a
11	ATRAZINE	1	pt/a	MPO							
11	MSO	0.8	qt/a	MPO							
11	28%	2	qt/a	MPO							
12	IMPACT	0.503	oz/a	MPO	B	99 a	97 a	97 a	68 cde	82 a	99 a
12	ROUNDUP POWERMAX	21.3	oz/a	MPO							
12	ATRAZINE	1	pt/a	MPO							
12	AMS	2	qt/a	MPO							
LSD (P=.05)						6.3	23.3	6.8	9.1	18.8	8.1
Standard Deviation						3.7	13.7	4.0	5.4	11.1	4.8
CV						4.45	19.11	5.03	8.04	14.65	5.85
Bartlett's X2						17.959	12.643	3.405	15.869	4.093	12.457
P(Bartlett's X2)						0.006*	0.125	0.845	0.07	0.849	0.006*

Ohio State University
Horticulture and Crop Science

Weed Code	CHEAL	POLPY	ABUTH	SETFA	AMBTR	AMBEL					
Crop Code											
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL					
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT					
Rating Date	Jun/25/2008	Jun/25/2008	Jun/25/2008	Jul/09/2008	Jul/09/2008	Jul/09/2008					
Crop Stage											
Trt-Eval Interval	27 DA-B	27 DA-B	27 DA-B	41 DA-B	41 DA-B	41 DA-B					
# Subsamples, Dec.	0	0	0	0	0	0					
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	19	20	21	22	23	24
Replicate F		3.669				3.669	1.559	0.813	0.047	0.147	1.114
Replicate Prob(F)		0.0421				0.0421	0.2327	0.4563	0.9542	0.8638	0.3461
Treatment F		305.136				305.136	19.290	260.360	55.689	31.080	194.097
Treatment Prob(F)		0.0001				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)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Ohio State University
Horticulture and Crop Science

Weed Code	CHEAL	ABUTH	POLPY
Crop Code			
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Date	Jul/09/2008	Jul/09/2008	Jul/09/2008
Crop Stage			
Trt-Eval Interval	41 DA-B	41 DA-B	41 DA-B
# Subsamples, Dec.	0	0	0

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	25	26	27
1	UTC					0 c	0 c	0 c
2	DUAL II MAGNUM	0.8	pt/a	PRE	A	0 c	0 c	0 c
3	DUAL II MAGNUM	0.8	pt/a	PRE	A	95 a	82 b	80 a
3	IMPACT	0.75	oz/a	MPO	B			
3	ATRAZINE	1	pt/a	MPO				
3	MSO	0.8	qt/a	MPO				
3	28%	2	qt/a	MPO				
4	DUAL II MAGNUM	0.8	pt/a	PRE	A	100 a	98 a	80 a
4	CALLISTO	3	oz/a	MPO	B			
4	ATRAZINE	1	pt/a	MPO				
4	COC	0.8	qt/a	MPO				
4	28%	2	qt/a	MPO				
5	DUAL II MAGNUM	0.8	pt/a	PRE	A	99 a	90 ab	92 a
5	LAUDIS	3	oz/a	MPO	B			
5	ATRAZINE	1	pt/a	MPO				
5	COC	0.8	qt/a	MPO				
5	28%	2	qt/a	MPO				
6	IMPACT	0.75	oz/a	MPO	B	95 a	100 a	40 b
6	ATRAZINE	1	pt/a	MPO				
6	MSO	0.8	qt/a	MPO				
6	28%	2	qt/a	MPO				
7	LAUDIS	3	oz/a	MPO	B	100 a	97 a	97 a
7	ATRAZINE	1	pt/a	MPO				
7	COC	0.8	qt/a	MPO				
7	28%	2	qt/a	MPO				
8	DUAL II MAGNUM	0.8	pt/a	PRE	A	90 ab	80 b	93 a
8	IMPACT	0.503	oz/a	POST	C			
8	ROUNDUP POWERMAX	21.3	oz/a	POST				
8	AMS	2	qt/a	POST				
9	DUAL II MAGNUM	0.8	pt/a	PRE	A	94 a	81 b	77 a
9	IMPACT	0.503	oz/a	POST	C			
9	ROUNDUP POWERMAX	21.3	oz/a	POST				
9	ATRAZINE	1	pt/a	POST				
9	AMS	2	qt/a	POST				
10	DUAL II MAGNUM	0.8	pt/a	PRE	A	83 b	79 b	67 a
10	ROUNDUP POWERMAX	21.3	oz/a	POST	C			
10	AMS	2	qt/a	POST				
11	LAUDIS	3	oz/a	MPO	B	100 a	99 a	100 a
11	ATRAZINE	1	pt/a	MPO				
11	MSO	0.8	qt/a	MPO				
11	28%	2	qt/a	MPO				
12	IMPACT	0.503	oz/a	MPO	B	98 a	83 b	100 a
12	ROUNDUP POWERMAX	21.3	oz/a	MPO				
12	ATRAZINE	1	pt/a	MPO				
12	AMS	2	qt/a	MPO				
LSD (P=.05)						7.8	7.9	24.0
Standard Deviation						4.6	4.7	14.2
CV						5.77	6.3	20.64
Bartlett's X2						9.253	12.03	19.798
P(Bartlett's X2)						0.16	0.15	0.006*

Ohio State University
Horticulture and Crop Science

Weed Code	CHEAL	ABUTH	POLPY
Crop Code			
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Date	Jul/09/2008	Jul/09/2008	Jul/09/2008
Crop Stage			
Trt-Eval Interval	41 DA-B	41 DA-B	41 DA-B
# Subsamples, Dec.	0	0	0

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	25	26	27
---------	----------------	--------------	-------------------	----------	-----------	----	----	----

Replicate F						1.174	1.807	2.246
Replicate Prob(F)						0.3276	0.1877	0.1296
Treatment F						200.354	173.896	19.591
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.