

Ohio State University Horticulture and Crop Science

POSTEMERGENCE WEED CONTROL IN CORN

USA-07-013

Trial ID: 07PRPOC2
Location: WESTERN BRANCH F-8

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 **Trial Status:** Complete
Country: USA **Initiation Date:** Apr/01/2007
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. CHEAL	Lambsquarters, common	Chenopodium album
3. AMARE	Redroot pigweed	Amaranthus retroflexus
4. AMBTR	Giant ragweed	Ambrosia trifida
5. ABUTH	Velvetleaf	Abutilon theophrasti
6. POLPY	Pennsylvania smartweed	Polygonum pennsylvanicum
7. AMBEL	Common ragweed	Ambrosia artemisiifolia

Crop 1: ZEAMX CORN, FIELD **Variety:** PIONEER 34A17 RR/LL
Planting Date: Apr/22/2007 **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: 1.5	Texture: SILTY LOAM
pH: 6.6	Soil Name: CELINA
CEC: 12.7	

Overall Moisture Conditions: POOR

APPLICATION DESCRIPTION

	A	B
Application Date:	Apr/22/2007	May/15/2007
Time of Day:	7:00 P.M.	9:00 A.M.
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Applic. Placement:	BROADCAST	BROADCAST
Air Temp., Unit:	76 F	72 F
% Relative Humidity:	30	68
Wind Velocity, Unit:	7 S	10 W
Soil Temp., Unit:	56 F	64 F
Soil Moisture:	DRY MOIST	DRY DRY
% Cloud Cover:	10	10

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ZEAMX .	ZEAMX .
Stage Scale:	.	3 COLLARS
Height, Unit:	0. .	4.5 IN

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WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	SETFA .	SETFA 2-3"
Stage Scale:	.	2 LVS
Density, Unit:	57.7 M2	57.7 M2
Weed 2 Code, Stage:	CHEAL .	CHEAL 1"
Stage Scale:	.	6 LVS
Density, Unit:	76.5 M2	76.5 M2
Weed 3 Code, Stage:	AMARE .	AMARE 1"
Stage Scale:	.	4 LVS
Density, Unit:	1 M2	1 M2
Weed 4 Code, Stage:	AMBTR .	AMBTR 2-3"
Stage Scale:	.	4 LVS
Density, Unit:	2.25 M2	2.25 M2
Weed 5 Code, Stage:	ABUTH .	ABUTH 1"
Stage Scale:	.	2 LVS
Density, Unit:	5.25 M2	5.25 M2
Weed 6 Code, Stage:	POLPY .	POLPY 3"
Stage Scale:	.	4 LVS
Density, Unit:	0.3 M2	0.3 M2
Weed 7 Code, Stage:	AMBEL .	AMBEL .
Stage Scale:	.	.
Density, Unit:	2.25 M2	2.25 M2

APPLICATION EQUIPMENT

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

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Weed Code						SETFA	AMBEL	AMBTR		
Crop Code						ZEAMX	ZEAMX			
Rating Data Type						PHYTO	PHYTO	CONTROL		
Rating Unit						PERCENT	PERCENT	PERCENT		
Rating Date						May/23/2007	May/31/2007	May/31/2007		
Trt-Eval Interval						8 DA-B	16 DA-B	16 DA-B		
# Subsamples, Dec.						0	0	0		
Trt No.	Treatment Name	Rate	Product	Product	Appl	1	2	3	4	5
		Rate Unit	Rate	Rate	Unit Code					
8	CINCH	15.28 oz ai/a	1 pt/a		A	1 a	0 a	100 a	100 a	98 a
8	DPX-E9636	0.229 oz ai/a	0.92 oz/a		B					
8	HARMONY GT	0.05 oz ai/a	0.1 oz/a							
8	ISOXADIFEN-ETHYL	0.115 oz ai/a	0.23 oz/a							
8	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a							
8	NIS	0.25 % v/v	6.4 oz/a							
8	AMS	2.5 % v/v	2 qt/a							
9	DPX-E9636	0.19 oz ai/a	0.76 oz/a		B	0 a	0 a	92 a	100 a	99 a
9	HARMONY GT	0.041 oz ai/a	0.082 oz/a							
9	ISOXADIFEN-ETHYL	0.095 oz ai/a	0.19 oz/a							
9	LIBERTY	6.68 oz ai/a	32 oz/a							
9	ATRAZINE	12 oz ai/a	1.5 pt/a							
9	NIS	0.25 % v/v	6.4 oz/a							
9	AMS	2.5 % v/v	2 qt/a							
10	DPX-E9636	0.25 oz ai/a	1 oz/a		B	1 a	0 a	99 a	100 a	100 a
10	DISTINCT	1.93 oz ai/a	2.76 oz/a							
10	ISOXADIFEN-ETHYL	0.125 oz ai/a	0.25 oz/a							
10	IMPACT	0.175 oz ai/a	0.5 oz/a							
10	ATRAZINE	8 oz ai/a	1 pt/a							
10	MSO	1 % v/v	0.8 qt/a							
10	AMS	2.5 % v/v	2 qt/a							
11	CINCH	15.28 oz ai/a	1 pt/a		A	0 a	0 a	100 a	100 a	99 a
11	DPX-E9636	0.25 oz ai/a	1 oz/a		B					
11	DISTINCT	1.93 oz ai/a	2.76 oz/a							
11	ISOXADIFEN-ETHYL	0.125 oz ai/a	0.25 oz/a							
11	IMPACT	0.175 oz ai/a	0.5 oz/a							
11	ATRAZINE	8 oz ai/a	1 pt/a							
11	MSO	1 % v/v	0.8 qt/a							
11	AMS	2.5 % v/v	2 qt/a							
12	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a		B	0 a	0 a	90 a	100 a	90 a
12	AMS	2.5 % v/v	2 qt/a							
13	CINCH	15.28 oz ai/a	1 pt/a		A	1 a	0 a	98 a	100 a	93 a
13	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a		B					
13	AMS	2.5 % v/v	2 qt/a							
14	LIBERTY	6.68 oz ai/a	32 oz/a		B	0 a	0 a	93 a	100 a	100 a
14	ATRAZINE	12 oz ai/a	1.5 pt/a							
14	AMS	2.5 % v/v	2 qt/a							
15	CINCH	15.28 oz ai/a	1 pt/a		A	0 a	0 a	100 a	100 a	100 a
15	LIBERTY	6.68 oz ai/a	32 oz/a		B					
15	ATRAZINE	12 oz ai/a	1.5 pt/a							
15	AMS	2.5 % v/v	2 qt/a							
16	UTC					0 a	0 a	0 b	0 b	0 b
LSD (P=.05)						1.5	0.7	6.4	0.2	7.1
Standard Deviation						0.9	0.4	3.8	0.1	4.3
CV						155.52	473.29	4.17	0.15	4.67
Bartlett's X2						9.122	0.0	28.996	0.0	27.672
P(Bartlett's X2)						0.823	.	0.001*	.	0.001*

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Weed Code			SETFA	AMBEL	AMBTR
Crop Code	ZEAMX	ZEAMX			
Rating Data Type	PHYTO	PHYTO	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	May/23/2007	May/31/2007	May/31/2007	May/31/2007	May/31/2007
Trt-Eval Interval	8 DA-B	16 DA-B	16 DA-B	16 DA-B	16 DA-B
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Rate	Product	Product Rate	Appl Unit	Code	1	2	3	4	5
Replicate F							0.245	2.143	0.462	1.000	1.920
Replicate Prob(F)							0.7842	0.1349	0.6345	0.3798	0.1641
Treatment F							0.564	1.000	124.671	89961.009	99.561
Treatment Prob(F)							0.8787	0.4801	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	CHEAL	AMARE	ABUTH	POLPY	ZEAMX	SETFA
Crop Code						
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	PHYTO	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	May/31/2007	May/31/2007	May/31/2007	May/31/2007	Jun/12/2007	Jun/12/2007
Trt-Eval Interval	16 DA-B	16 DA-B	16 DA-B	16 DA-B	28 DA-B	28 DA-B
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Product	Product	Appl	6	7	8	9	10	11
		Rate Unit	Rate	Rate	Code						
8	CINCH	15.28 oz ai/a	1 pt/a		A	100 a	100 a	100 a	100 a	0 a	99 a
8	DPX-E9636	0.229 oz ai/a	0.92 oz/a		B						
8	HARMONY GT	0.05 oz ai/a	0.1 oz/a								
8	ISOXADIFEN-ETHYL	0.115 oz ai/a	0.23 oz/a								
8	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a								
8	NIS	0.25 % v/v	6.4 oz/a								
8	AMS	2.5 % v/v	2 qt/a								
9	DPX-E9636	0.19 oz ai/a	0.76 oz/a		B	100 a	100 a	100 a	100 a	0 a	80 bc
9	HARMONY GT	0.041 oz ai/a	0.082 oz/a								
9	ISOXADIFEN-ETHYL	0.095 oz ai/a	0.19 oz/a								
9	LIBERTY	6.68 oz ai/a	32 oz/a								
9	ATRAZINE	12 oz ai/a	1.5 pt/a								
9	NIS	0.25 % v/v	6.4 oz/a								
9	AMS	2.5 % v/v	2 qt/a								
10	DPX-E9636	0.25 oz ai/a	1 oz/a		B	100 a	100 a	100 a	100 a	0 a	90 ab
10	DISTINCT	1.93 oz ai/a	2.76 oz/a								
10	ISOXADIFEN-ETHYL	0.125 oz ai/a	0.25 oz/a								
10	IMPACT	0.175 oz ai/a	0.5 oz/a								
10	ATRAZINE	8 oz ai/a	1 pt/a								
10	MSO	1 % v/v	0.8 qt/a								
10	AMS	2.5 % v/v	2 qt/a								
11	CINCH	15.28 oz ai/a	1 pt/a		A	100 a	100 a	100 a	100 a	0 a	95 ab
11	DPX-E9636	0.25 oz ai/a	1 oz/a		B						
11	DISTINCT	1.93 oz ai/a	2.76 oz/a								
11	ISOXADIFEN-ETHYL	0.125 oz ai/a	0.25 oz/a								
11	IMPACT	0.175 oz ai/a	0.5 oz/a								
11	ATRAZINE	8 oz ai/a	1 pt/a								
11	MSO	1 % v/v	0.8 qt/a								
11	AMS	2.5 % v/v	2 qt/a								
12	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a		B	50 d	100 a	93 b	100 a	0 a	70 c
12	AMS	2.5 % v/v	2 qt/a								
13	CINCH	15.28 oz ai/a	1 pt/a		A	79 b	100 a	95 ab	100 a	0 a	83 abc
13	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a		B						
13	AMS	2.5 % v/v	2 qt/a								
14	LIBERTY	6.68 oz ai/a	32 oz/a		B	37 e	100 a	100 a	100 a	0 a	73 c
14	ATRAZINE	12 oz ai/a	1.5 pt/a								
14	AMS	2.5 % v/v	2 qt/a								
15	CINCH	15.28 oz ai/a	1 pt/a		A	62 c	100 a	98 a	100 a	0 a	95 ab
15	LIBERTY	6.68 oz ai/a	32 oz/a		B						
15	ATRAZINE	12 oz ai/a	1.5 pt/a								
15	AMS	2.5 % v/v	2 qt/a								
16	UTC					0 f	0 b	0 c	0 b	0 a	0 d
LSD (P=.05)						8.1	0.0	3.4	0.0	0.5	10.6
Standard Deviation						4.9	0.0	2.1	0.0	0.3	6.4
CV						5.88	0.0	2.21	0.0	692.82	7.47
Bartlett's X2						17.925	0.0	4.234	0.0	0.0	42.38
P(Bartlett's X2)						0.001*	.	0.237	.	.	0.001*

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Weed Code	CHEAL	AMARE	ABUTH	POLPY	ZEAMX	SETFA
Crop Code					PHYTO	
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	PERCENT	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	May/31/2007	May/31/2007	May/31/2007	May/31/2007	Jun/12/2007	Jun/12/2007
Trt-Eval Interval	16 DA-B	16 DA-B	16 DA-B	16 DA-B	28 DA-B	28 DA-B
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Product	Product	Appl	6	7	8	9	10	11
		Rate	Unit	Rate	Unit Code						
	Replicate F					0.716	0.000	1.079	0.000	1.000	0.365
	Replicate Prob(F)					0.4969	1.0000	0.3528	1.0000	0.3798	0.6975
	Treatment F					115.703	0.000	437.931	0.000	1.000	44.664
	Treatment Prob(F)					0.0001	1.0000	0.0001	1.0000	0.4801	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		AMBEL	AMBTR	CHEAL	AMARE	ABUTH	POLPY				
Crop Code											
Rating Data Type		CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL				
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Rating Date		Jun/12/2007	Jun/12/2007	Jun/12/2007	Jun/12/2007	Jun/12/2007	Jun/12/2007				
Trt-Eval Interval		28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B				
# Subsamples, Dec.		0	0	0	0	0	0				
Trt No.	Treatment Name	Rate	Product	Product	Appl	12	13	14	15	16	17
		Rate Unit	Rate	Rate	Code						
8	CINCH	15.28 oz ai/a	1 pt/a		A	100 a	85 a	100 a	100 a	99 a	100 a
8	DPX-E9636	0.229 oz ai/a	0.92 oz/a		B						
8	HARMONY GT	0.05 oz ai/a	0.1 oz/a								
8	ISOXADIFEN-ETHYL	0.115 oz ai/a	0.23 oz/a								
8	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a								
8	NIS	0.25 % v/v	6.4 oz/a								
8	AMS	2.5 % v/v	2 qt/a								
9	DPX-E9636	0.19 oz ai/a	0.76 oz/a		B	100 a	99 a	100 a	100 a	100 a	100 a
9	HARMONY GT	0.041 oz ai/a	0.082 oz/a								
9	ISOXADIFEN-ETHYL	0.095 oz ai/a	0.19 oz/a								
9	LIBERTY	6.68 oz ai/a	32 oz/a								
9	ATRAZINE	12 oz ai/a	1.5 pt/a								
9	NIS	0.25 % v/v	6.4 oz/a								
9	AMS	2.5 % v/v	2 qt/a								
10	DPX-E9636	0.25 oz ai/a	1 oz/a		B	100 a	98 a	100 a	100 a	99 a	100 a
10	DISTINCT	1.93 oz ai/a	2.76 oz/a								
10	ISOXADIFEN-ETHYL	0.125 oz ai/a	0.25 oz/a								
10	IMPACT	0.175 oz ai/a	0.5 oz/a								
10	ATRAZINE	8 oz ai/a	1 pt/a								
10	MSO	1 % v/v	0.8 qt/a								
10	AMS	2.5 % v/v	2 qt/a								
11	CINCH	15.28 oz ai/a	1 pt/a		A	100 a	100 a	100 a	100 a	99 a	100 a
11	DPX-E9636	0.25 oz ai/a	1 oz/a		B						
11	DISTINCT	1.93 oz ai/a	2.76 oz/a								
11	ISOXADIFEN-ETHYL	0.125 oz ai/a	0.25 oz/a								
11	IMPACT	0.175 oz ai/a	0.5 oz/a								
11	ATRAZINE	8 oz ai/a	1 pt/a								
11	MSO	1 % v/v	0.8 qt/a								
11	AMS	2.5 % v/v	2 qt/a								
12	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a		B	100 a	90 a	40 c	93 a	73 c	100 a
12	AMS	2.5 % v/v	2 qt/a								
13	CINCH	15.28 oz ai/a	1 pt/a		A	100 a	83 a	60 b	100 a	82 bc	100 a
13	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a		B						
13	AMS	2.5 % v/v	2 qt/a								
14	LIBERTY	6.68 oz ai/a	32 oz/a		B	100 a	100 a	23 d	100 a	92 ab	100 a
14	ATRAZINE	12 oz ai/a	1.5 pt/a								
14	AMS	2.5 % v/v	2 qt/a								
15	CINCH	15.28 oz ai/a	1 pt/a		A	100 a	98 a	43 c	100 a	92 ab	100 a
15	LIBERTY	6.68 oz ai/a	32 oz/a		B						
15	ATRAZINE	12 oz ai/a	1.5 pt/a								
15	AMS	2.5 % v/v	2 qt/a								
16	UTC					0 b	0 b	0 e	0 b	0 d	0 b
LSD (P=.05)						0.0	15.8	10.8	4.8	9.3	0.0
Standard Deviation						0.0	9.5	6.5	2.9	5.6	0.0
CV						0.0	10.84	8.18	3.09	6.23	0.0
Bartlett's X2						0.0	26.879	38.872	0.0	37.849	0.0
P(Bartlett's X2)						.	0.008*	0.001*	.	0.001*	.

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Weed Code	AMBEL	AMBTR	CHEAL	AMARE	ABUTH	POLPY
Crop Code						
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	Jun/12/2007	Jun/12/2007	Jun/12/2007	Jun/12/2007	Jun/12/2007	Jun/12/2007
Trt-Eval Interval	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Product	Product	Appl								
		Rate	Unit	Rate	Rate	Unit	Code	12	13	14	15	16	17
	Replicate F							0.000	0.086	1.202	1.000	0.464	0.000
	Replicate Prob(F)							1.0000	0.9180	0.3148	0.3798	0.6333	1.0000
	Treatment F							0.000	19.431	82.386	224.000	60.665	0.000
	Treatment Prob(F)							1.0000	0.0001	0.0001	0.0001	0.0001	1.0000

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)
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Weed Code				SETFA	AMBEL	AMBTR	CHEAL	AMARE	ABUTH		
Crop Code											
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT		
Rating Date				Jul/10/2007	Jul/10/2007	Jul/10/2007	Jul/10/2007	Jul/10/2007	Jul/10/2007		
Trt-Eval Interval				56 DA-B	56 DA-B	56 DA-B	56 DA-B	56 DA-B	56 DA-B		
# Subsamples, Dec.				0	0	0	0	0	0		
Trt No.	Treatment Name	Rate	Product	Product	Appl	18	19	20	21	22	23
		Rate Unit	Rate	Rate Unit	Code						
8	CINCH	15.28 oz ai/a	1 pt/a	pt/a	A	99 a	100 a	79 a	100 a	100 a	97 a
8	DPX-E9636	0.229 oz ai/a	0.92 oz/a	oz/a	B						
8	HARMONY GT	0.05 oz ai/a	0.1 oz/a	oz/a							
8	ISOXADIFEN-ETHYL	0.115 oz ai/a	0.23 oz/a	oz/a							
8	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a	oz/a							
8	NIS	0.25 % v/v	6.4 oz/a	oz/a							
8	AMS	2.5 % v/v	2 qt/a	qt/a							
9	DPX-E9636	0.19 oz ai/a	0.76 oz/a	oz/a	B	89 a	100 a	94 a	100 a	100 a	99 a
9	HARMONY GT	0.041 oz ai/a	0.082 oz/a	oz/a							
9	ISOXADIFEN-ETHYL	0.095 oz ai/a	0.19 oz/a	oz/a							
9	LIBERTY	6.68 oz ai/a	32 oz/a	oz/a							
9	ATRAZINE	12 oz ai/a	1.5 pt/a	pt/a							
9	NIS	0.25 % v/v	6.4 oz/a	oz/a							
9	AMS	2.5 % v/v	2 qt/a	qt/a							
10	DPX-E9636	0.25 oz ai/a	1 oz/a	oz/a	B	92 a	100 a	99 a	100 a	100 a	97 a
10	DISTINCT	1.93 oz ai/a	2.76 oz/a	oz/a							
10	ISOXADIFEN-ETHYL	0.125 oz ai/a	0.25 oz/a	oz/a							
10	IMPACT	0.175 oz ai/a	0.5 oz/a	oz/a							
10	ATRAZINE	8 oz ai/a	1 pt/a	pt/a							
10	MSO	1 % v/v	0.8 qt/a	qt/a							
10	AMS	2.5 % v/v	2 qt/a	qt/a							
11	CINCH	15.28 oz ai/a	1 pt/a	pt/a	A	95 a	100 a	97 a	97 a	100 a	100 a
11	DPX-E9636	0.25 oz ai/a	1 oz/a	oz/a	B						
11	DISTINCT	1.93 oz ai/a	2.76 oz/a	oz/a							
11	ISOXADIFEN-ETHYL	0.125 oz ai/a	0.25 oz/a	oz/a							
11	IMPACT	0.175 oz ai/a	0.5 oz/a	oz/a							
11	ATRAZINE	8 oz ai/a	1 pt/a	pt/a							
11	MSO	1 % v/v	0.8 qt/a	qt/a							
11	AMS	2.5 % v/v	2 qt/a	qt/a							
12	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a	oz/a	B	80 a	100 a	70 a	27 c	93 a	53 c
12	AMS	2.5 % v/v	2 qt/a	qt/a							
13	CINCH	15.28 oz ai/a	1 pt/a	pt/a	A	90 a	100 a	68 a	50 b	93 a	72 b
13	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a	oz/a	B						
13	AMS	2.5 % v/v	2 qt/a	qt/a							
14	LIBERTY	6.68 oz ai/a	32 oz/a	oz/a	B	95 a	100 a	100 a	10 d	100 a	100 a
14	ATRAZINE	12 oz ai/a	1.5 pt/a	pt/a							
14	AMS	2.5 % v/v	2 qt/a	qt/a							
15	CINCH	15.28 oz ai/a	1 pt/a	pt/a	A	99 a	100 a	92 a	40 b	100 a	87 a
15	LIBERTY	6.68 oz ai/a	32 oz/a	oz/a	B						
15	ATRAZINE	12 oz ai/a	1.5 pt/a	pt/a							
15	AMS	2.5 % v/v	2 qt/a	qt/a							
16	UTC					0 b	0 c	0 b	0 d	0 b	0 d
LSD (P=.05)						13.8	0.6	26.2	12.5	6.6	13.5
Standard Deviation						8.3	0.4	15.7	7.5	3.9	8.1
CV						9.43	0.41	18.9	9.85	4.24	9.4
Bartlett's X2						46.244	0.0	27.188	28.299	0.0	18.68
P(Bartlett's X2)						0.001*	.	0.012*	0.001*	.	0.045*

Ohio State University Horticulture and Crop Science

Weed Code	SETFA	AMBEL	AMBTR	CHEAL	AMARE	ABUTH
Crop Code						
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	Jul/10/2007	Jul/10/2007	Jul/10/2007	Jul/10/2007	Jul/10/2007	Jul/10/2007
Trt-Eval Interval	56 DA-B	56 DA-B	56 DA-B	56 DA-B	56 DA-B	56 DA-B
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Product	Product	Appl	18	19	20	21	22	23
		Rate	Unit	Rate	Unit Code						

Replicate F						0.148	1.000	0.558	1.347	2.143	1.787
Replicate Prob(F)						0.8634	0.3798	0.5784	0.2752	0.1349	0.1849
Treatment F						25.218	12832.144	7.089	72.769	119.393	31.374
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)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Ohio State University Horticulture and Crop Science

Weed Code	POLPY
Crop Code	
Rating Data Type	CONTROL
Rating Unit	PERCENT
Rating Date	Jul/10/2007
Trt-Eval Interval	56 DA-B
# Subsamples, Dec.	0

Trt No.	Treatment Name	Rate	Product Rate	Product Unit	Appl Code	24
1	DPX-E9636	0.25 oz ai/a	1 oz/a		B	100 a
1	ACCENT	0.375 oz ai/a	0.5 oz/a			
1	ISOXADIFEN-ETHYL	0.125 oz ai/a	0.25 oz/a			
1	IMPACT	0.175 oz ai/a	0.5 oz/a			
1	ATRAZINE	8 oz ai/a	1 pt/a			
1	MSO	1 % v/v	0.8 qt/a			
1	AMS	2.5 % v/v	2 qt/a			
2	CINCH	15.28 oz ai/a	1 pt/a		A	100 a
2	DPX-E9636	0.25 oz ai/a	1 oz/a		B	
2	ACCENT	0.375 oz ai/a	0.5 oz/a			
2	ISOXADIFEN-ETHYL	0.125 oz ai/a	0.25 oz/a			
2	IMPACT	0.175 oz ai/a	0.5 oz/a			
2	ATRAZINE	8 oz ai/a	1 pt/a			
2	MSO	1 % v/v	0.8 qt/a			
2	AMS	2.5 % v/v	2 qt/a			
3	ACCENT	0.5 oz ai/a	0.67 oz/a		B	100 a
3	HARMONY GT	0.06 oz ai/a	0.12 oz/a			
3	ISOXADIFEN-ETHYL	0.125 oz ai/a	0.25 oz/a			
3	IMPACT	0.175 oz ai/a	0.5 oz/a			
3	ATRAZINE	8 oz ai/a	1 pt/a			
3	MSO	1 % v/v	0.8 qt/a			
3	AMS	2.5 % v/v	2 qt/a			
4	CINCH	15.28 oz ai/a	1 pt/a		A	100 a
4	ACCENT	0.5 oz ai/a	0.67 oz/a		B	
4	HARMONY GT	0.06 oz ai/a	0.12 oz/a			
4	ISOXADIFEN-ETHYL	0.125 oz ai/a	0.25 oz/a			
4	IMPACT	0.175 oz ai/a	0.5 oz/a			
4	ATRAZINE	8 oz ai/a	1 pt/a			
4	MSO	1 % v/v	0.8 qt/a			
4	AMS	2.5 % v/v	2 qt/a			
5	DPX-E9636	0.19 oz ai/a	0.76 oz/a		B	100 a
5	HARMONY GT	0.041 oz ai/a	0.082 oz/a			
5	ISOXADIFEN-ETHYL	0.095 oz ai/a	0.19 oz/a			
5	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a			
5	NIS	0.25 % v/v	6.4 oz/a			
5	AMS	2.5 % v/v	2 qt/a			
6	CINCH	15.28 oz ai/a	1 pt/a		A	100 a
6	DPX-E9636	0.19 oz ai/a	0.76 oz/a		B	
6	HARMONY GT	0.041 oz ai/a	0.082 oz/a			
6	ISOXADIFEN-ETHYL	0.095 oz ai/a	0.19 oz/a			
6	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a			
6	NIS	0.25 % v/v	6.4 oz/a			
6	AMS	2.5 % v/v	2 qt/a			
7	DPX-E9636	0.229 oz ai/a	0.92 oz/a		B	100 a
7	HARMONY GT	0.05 oz ai/a	0.1 oz/a			
7	ISOXADIFEN-ETHYL	0.115 oz ai/a	0.23 oz/a			
7	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a			
7	NIS	0.25 % v/v	6.4 oz/a			
7	AMS	2.5 % v/v	2 qt/a			

Ohio State University Horticulture and Crop Science

Weed Code	POLPY
Crop Code	
Rating Data Type	CONTROL
Rating Unit	PERCENT
Rating Date	Jul/10/2007
Trt-Eval Interval	56 DA-B
# Subsamples, Dec.	0

Trt No.	Treatment Name	Rate	Product Rate	Product Unit	Appl Code	24
8	CINCH	15.28 oz ai/a	1 pt/a		A	100 a
8	DPX-E9636	0.229 oz ai/a	0.92 oz/a		B	
8	HARMONY GT	0.05 oz ai/a	0.1 oz/a			
8	ISOXADIFEN-ETHYL	0.115 oz ai/a	0.23 oz/a			
8	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a			
8	NIS	0.25 % v/v	6.4 oz/a			
8	AMS	2.5 % v/v	2 qt/a			
9	DPX-E9636	0.19 oz ai/a	0.76 oz/a		B	100 a
9	HARMONY GT	0.041 oz ai/a	0.082 oz/a			
9	ISOXADIFEN-ETHYL	0.095 oz ai/a	0.19 oz/a			
9	LIBERTY	6.68 oz ai/a	32 oz/a			
9	ATRAZINE	12 oz ai/a	1.5 pt/a			
9	NIS	0.25 % v/v	6.4 oz/a			
9	AMS	2.5 % v/v	2 qt/a			
10	DPX-E9636	0.25 oz ai/a	1 oz/a		B	100 a
10	DISTINCT	1.93 oz ai/a	2.76 oz/a			
10	ISOXADIFEN-ETHYL	0.125 oz ai/a	0.25 oz/a			
10	IMPACT	0.175 oz ai/a	0.5 oz/a			
10	ATRAZINE	8 oz ai/a	1 pt/a			
10	MSO	1 % v/v	0.8 qt/a			
10	AMS	2.5 % v/v	2 qt/a			
11	CINCH	15.28 oz ai/a	1 pt/a		A	100 a
11	DPX-E9636	0.25 oz ai/a	1 oz/a		B	
11	DISTINCT	1.93 oz ai/a	2.76 oz/a			
11	ISOXADIFEN-ETHYL	0.125 oz ai/a	0.25 oz/a			
11	IMPACT	0.175 oz ai/a	0.5 oz/a			
11	ATRAZINE	8 oz ai/a	1 pt/a			
11	MSO	1 % v/v	0.8 qt/a			
11	AMS	2.5 % v/v	2 qt/a			
12	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a		B	100 a
12	AMS	2.5 % v/v	2 qt/a			
13	CINCH	15.28 oz ai/a	1 pt/a		A	100 a
13	ROUNDUP ORIGINAL MAX	0.77 lb ae/a	22 oz/a		B	
13	AMS	2.5 % v/v	2 qt/a			
14	LIBERTY	6.68 oz ai/a	32 oz/a		B	100 a
14	ATRAZINE	12 oz ai/a	1.5 pt/a			
14	AMS	2.5 % v/v	2 qt/a			
15	CINCH	15.28 oz ai/a	1 pt/a		A	100 a
15	LIBERTY	6.68 oz ai/a	32 oz/a		B	
15	ATRAZINE	12 oz ai/a	1.5 pt/a			
15	AMS	2.5 % v/v	2 qt/a			
16	UTC					0 b
LSD (P=.05)						0.0
Standard Deviation						0.0
CV						0.0
Bartlett's X2						0.0
P(Bartlett's X2)						.

Ohio State University Horticulture and Crop Science

Weed Code	POLPY
Crop Code	
Rating Data Type	CONTROL
Rating Unit	PERCENT
Rating Date	Jul/10/2007
Trt-Eval Interval	56 DA-B
# Subsamples, Dec.	0

Trt No.	Treatment Name	Rate	Unit	Product	Product	Appl	Code
							24

Replicate F	0.000
Replicate Prob(F)	1.0000
Treatment F	0.000
Treatment Prob(F)	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.