

Ohio State University  
Horticulture and Crop Science

WEED CONTROL PROGRAMS IN CORN WITH LAUDIS

HP08NARDLA

Trial ID: 08LAUDIS

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

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 pensylvanicum
5. AMBTR	Giant ragweed	Ambrosia trifida
6. AMBEL	Common ragweed	Ambrosia artemisiifolia
7. AMARE	Redroot pigweed	Amaranthus retroflexus

Crop 1: ZEAMX CORN, FIELD

Variety: PIONEER 32B83

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	D
Application Date:	Apr/24/2008	May/29/2008	Jun/06/2008	Jun/12/2008
Time of Day:	11:00 A.M.	9:30 A.M.	8:30 A.M.	11:00 A.M.
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EPO	POST	POST
Applic. Placement:	BROADCAST	BROADCAST	BROADCAST	BROADCAST
Air Temp., Unit:	62 F	63 F	81 F	79 F
% Relative Humidity:	39	52	76	57
Wind Velocity, Unit:	8 E	3 E	7 S	6 S
Soil Temp., Unit:	54 F	58 F	69 F	71 F
Soil Moisture:	DRY/MOIST	DRY/MOIST	WET/WET	DRY/MOIST
% Cloud Cover:	1	0	0	33

CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	ZEAMX ZEAMX V3	ZEAMX V5	ZEAMX V6	
Stage Scale:	DESC	DESC	DESC	
Height, Unit:	6 IN	13 IN	19 IN	

WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code, Stage:	SETFA SETFA 5"	SETFA 5-7"	SETFA 3-4"	
Stage Scale:	3 LVS	5-7 LVS	3 LVS	
Density, Unit:	221 M2	221 M2	221 M2	
Weed 2 Code, Stage:	ABUTH ABUTH 1	ABUTH 2-3"	ABUTH 0.5-1"	
Stage Scale:	2 LVS	5 LVS	4 LVS	
Density, Unit:	10 M2	10 M2	10 M2	
Weed 3 Code, Stage:	CHEAL CHEAL .25-1"	CHEAL 4-6"	CHEAL 4-5"	
Stage Scale:	2-4 LVS	10-12 LVS	>12 LVS	
Density, Unit:	58 M2	58 M2	58 M2	
Weed 4 Code, Stage:	POLPY POLPY 2"	POLPY 2-3"	POLPY	
Stage Scale:	3 LVS	10-12 LVS		
Density, Unit:	30 M2	30 M2	30 M2	
Weed 5 Code, Stage:	AMBTR AMBTR 3-8"	AMBTR 6-13"	AMBTR 5-6"	
Stage Scale:	4 LVS	10-12 LVS	8-10 LVS	
Density, Unit:	24 M2	24 M2	24 M2	
Weed 6 Code, Stage:	AMBEL AMBEL 2"	AMBEL 3-4"	AMBEL	
Stage Scale:	4 LVS	4-6 LVS		
Density, Unit:	5 M2	5 M2		
Weed 7 Code, Stage:	AMARE AMARE	AMARE 2-4"	AMARE	
Stage Scale:		6-7 LVS		
Density, Unit:		12 M2		

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APPLICATION EQUIPMENT

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

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Study Dir.: Anthony F. Dobbels

Location: WESTERN BRANCH F-7

Investigator: Dr. Mark M. Loux

Weed Code						SETFA	AMBTR	AMBEL	CHEAL	ABUTH	
Crop Code						ZEAMX					
Rating Data Type						PHYTO	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit						PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Rating Date						Jun/07/2008	Jun/07/2008	Jun/07/2008	Jun/07/2008	Jun/07/2008	
Trt-Eval Interval						AT POST	AT POST	AT POST	AT POST	AT POST	
# Subsamples, Dec.						0	0	0	0	0	
Trt No.	Treatment Name	Product Rate	Product Unit	Grow Stg	Appl Code	1	2	3	4	5	6
1	UTC					0 a	0 c	0 e	0 d	0 d	0 e
2	CORVUS	2.5 oz/a		PRE	A	0 a	88 a	58 bc	98 a	98 a	100 a
2	ATRAZINE	1 qt/a		PRE							
2	LAUDIS	3 oz/a		MPO	D						
2	ATRAZINE	1 pt/a		MPO							
2	COC	0.8 qt/a		MPO							
2	28%	1.5 qt/a		MPO							
3	CORVUS	2.5 oz/a		PRE	A	0 a	87 a	57 bc	100 a	85 a	100 a
3	ATRAZINE	1 qt/a		PRE							
3	LAUDIS	3 oz/a		MPO	D						
3	ATRAZINE	2 pt/a		MPO							
3	MSO	0.8 qt/a		MPO							
3	28%	1.5 qt/a		MPO							
4	LEXAR	1.5 pt/a		PRE	A	0 a	77 a	43 bcd	83 ab	77 a	97 a
4	LEXAR	1.5 pt/a		MPO	D						
4	NIS	6.4 oz/a		MPO							
5	HARNESS XTRA 5.6	2.1 qt/a		PRE	A	0 a	100 a	70 b	100 a	87 a	98 a
5	LAUDIS	3 oz/a		MPO	D						
5	ATRAZINE	1 pt/a		MPO							
5	COC	0.8 qt/a		MPO							
5	28%	1.5 qt/a		MPO							
6	LAUDIS	3 oz/a		EPO	B	0 a	100 a	98 a	100 a	100 a	100 a
6	ATRAZINE	1 pt/a		EPO							
6	MSO	0.8 qt/a		EPO							
6	28%	1.5 qt/a		EPO							
7	IMPACT	0.75 oz/a		EPO	B	0 a	95 a	94 a	100 a	88 a	100 a
7	ATRAZINE	1 pt/a		EPO							
7	COC	0.8 qt/a		EPO							
7	28%	1.5 qt/a		EPO							
8	LAUDIS	3 oz/a		MPO	C	0 a	33 b	20 de	50 bc	17 cd	17 cde
8	IGNITE	22 oz/a		MPO							
8	ATRAZINE	1 pt/a		MPO							
8	AMS	2 qt/a		MPO							
9	LAUDIS	3 oz/a		MPO	C	0 a	45 b	17 de	22 cd	27 bc	23 b-e
9	ROUNDUP POWERMAX	22 oz/a		MPO							
9	ATRAZINE	1 pt/a		MPO							
9	AMS	2 qt/a		MPO							
10	LAUDIS	3 oz/a		MPO	C	0 a	33 b	10 de	37 bcd	40 bc	7 de
10	ROUNDUP POWERMAX	11 oz/a		MPO							
10	ATRAZINE	1 qt/a		MPO							
10	AMS	2 qt/a		MPO							
11	ROUNDUP POWERMAX	22 oz/a		MPO	C	0 a	47 b	30 cde	50 bc	40 bc	33 b-e
11	ALLIANCE	1 qt/a		MPO							
12	ROUNDUP POWERMAX	22 oz/a		MPO	C	1 a	37 b	22 de	57 abc	50 b	77 ab
12	LAUDIS	2 oz/a		MPO							
12	ALLIANCE	1 qt/a		MPO							
12	INTERLOCK	4 oz/a		MPO							

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Weed Code						SETFA	AMBTR	AMBEL	CHEAL	ABUTH	
Crop Code				ZEAMX							
Rating Data Type				PHYTO		CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit				PERCENT		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Rating Date				Jun/07/2008		Jun/07/2008	Jun/07/2008	Jun/07/2008	Jun/07/2008	Jun/07/2008	
Trt-Eval Interval				AT POST		AT POST	AT POST	AT POST	AT POST	AT POST	
# Subsamples, Dec.				0		0	0	0	0	0	
Trt No.	Treatment Name	Product Rate	Product Unit	Grow Stg	Appl Code	1	2	3	4	5	6
13	ROUNDUP POWERMAX	22 oz/a		MPO	C	0 a	40 b	17 de	40 bcd	40 bc	37 b-e
13	LAUDIS	2 oz/a		MPO							
13	ALLIANCE	1 qt/a		MPO							
13	INTERLOCK	4 oz/a		MPO							
13	SUPERB HC	0.4 qt/a		MPO							
14	ROUNDUP POWERMAX	22 oz/a		MPO	C	0 a	47 b	33 cde	63 abc	57 b	57 a-d
14	LAUDIS	2 oz/a		MPO							
14	ALLIANCE	1 qt/a		MPO							
14	INTERLOCK	4 oz/a		MPO							
14	DESTINY HC	0.4 qt/a		MPO							
15	ROUNDUP POWERMAX	22 oz/a		MPO	C	0 a	43 b	27 de	35 cd	43 bc	62 a-d
15	LAUDIS	2 oz/a		MPO							
15	ALLIANCE	1 qt/a		MPO							
15	SUPERB HC	0.4 qt/a		MPO							
16	ROUNDUP POWERMAX	22 oz/a		MPO	C	0 a	30 b	20 de	57 abc	43 bc	57 a-d
16	LAUDIS	2 oz/a		MPO							
16	ALLIANCE	1 qt/a		MPO							
16	DESTINY HC	0.4 qt/a		MPO							
17	ROUNDUP POWERMAX	22 oz/a		MPO	C	0 a	43 b	20 de	47 bc	47 b	67 abc
17	LAUDIS	2 oz/a		MPO							
17	ALLIANCE	1 qt/a		MPO							
18	ROUNDUP POWERMAX	22 oz/a		MPO	C	0 a	33 b	13 de	42 bcd	38 bc	60 a-d
18	LAUDIS	2 oz/a		MPO							
18	ALLIANCE	1 qt/a		MPO							
18	MSO	0.8 qt/a		MPO							
LSD (P=.05)						0.5	20.5	21.0	28.1	18.1	35.3
Standard Deviation						0.3	12.3	12.6	16.8	10.9	21.2
CV						734.85	22.64	34.9	28.06	20.05	35.0
Bartlett's X2						0.0	20.442	21.341	15.58	11.019	13.045
P(Bartlett's X2)						.	0.156	0.066	0.157	0.685	0.366
Replicate F						1.000	3.231	3.686	4.657	3.005	0.419
Replicate Prob(F)						0.3784	0.0519	0.0356	0.0180	0.0629	0.6613
Treatment F						1.000	16.715	15.257	9.855	20.807	8.042
Treatment Prob(F)						0.4813	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						POLPY	AMARE		SETFA	AMBTR	AMBEL
Crop Code						CONTROL	CONTROL	ZEAMX	CONTROL	CONTROL	CONTROL
Rating Data Type						PERCENT	PERCENT	PHYTO	PERCENT	PERCENT	PERCENT
Rating Unit						Jun/07/2008	Jun/07/2008	Jun/13/2008	Jun/13/2008	Jun/13/2008	Jun/13/2008
Rating Date						AT POST	AT POST	7 DA-C	7 DA-C	7 DA-C	7 DA-C
Trt-Eval Interval						0	0	0	0	0	0
# Subsamples, Dec.											
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	7	8	9	10	11	12
14	ROUNDUP POWERMAX	22 oz/a		MPO	C	57 a-d	100 a	4 a	100 a	95 a	100 a
14	LAUDIS	2 oz/a		MPO							
14	ALLIANCE	1 qt/a		MPO							
14	INTERLOCK	4 oz/a		MPO							
14	DESTINY HC	0.4 qt/a		MPO							
15	ROUNDUP POWERMAX	22 oz/a		MPO	C	23 cd	97 a	0 b	99 a	92 a	100 a
15	LAUDIS	2 oz/a		MPO							
15	ALLIANCE	1 qt/a		MPO							
15	SUPERB HC	0.4 qt/a		MPO							
16	ROUNDUP POWERMAX	22 oz/a		MPO	C	37 a-d	90 a	0 b	99 a	93 a	100 a
16	LAUDIS	2 oz/a		MPO							
16	ALLIANCE	1 qt/a		MPO							
16	DESTINY HC	0.4 qt/a		MPO							
17	ROUNDUP POWERMAX	22 oz/a		MPO	C	60 a-d	100 a	0 b	99 a	92 a	100 a
17	LAUDIS	2 oz/a		MPO							
17	ALLIANCE	1 qt/a		MPO							
18	ROUNDUP POWERMAX	22 oz/a		MPO	C	17 cd	100 a	0 b	99 a	95 a	100 a
18	LAUDIS	2 oz/a		MPO							
18	ALLIANCE	1 qt/a		MPO							
18	MSO	0.8 qt/a		MPO							
LSD (P=.05)						38.9	15.2	0.5	9.7	16.9	1.6
Standard Deviation						23.3	9.1	0.3	5.8	10.2	1.0
CV						47.07	10.03	133.61	6.73	13.37	1.04
Bartlett's X2						8.062	3.824	0.0	43.145	33.074	0.0
P(Bartlett's X2)						0.886	0.281	.	0.001*	0.005*	.
Replicate F						1.344	0.693	1.000	1.799	6.660	0.486
Replicate Prob(F)						0.2742	0.5072	0.3784	0.1809	0.0036	0.6195
Treatment F						6.281	21.456	30.250	54.650	26.957	1742.629
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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					CHEAL	POLPY	ABUTH	AMARE		SETFA	
					CONTROL	CONTROL	CONTROL	CONTROL	ZEAMX	CONTROL	
					PERCENT	PERCENT	PERCENT	PERCENT	PHTYO	PERCENT	
					Jun/13/2008	Jun/13/2008	Jun/13/2008	Jun/13/2008	Jul/03/2008	Jul/03/2008	
					7 DA-C	7 DA-C	7 DA-C	7 DA-C	27 DA-C	27 DA-C	
					0	0	0	0	0	0	
Trt No.	Treatment Name	Product Rate	Product Unit	Grow Stg	Appl Code	13	14	15	16	17	18
1	UTC					0 e	0 b	0 c	0 b	0 b	0 e
2	CORVUS	2.5 oz/a		PRE	A	83 abc	90 a	99 a	100 a	0 b	94 ab
2	ATRAZINE	1 qt/a		PRE							
2	LAUDIS	3 oz/a		MPO	D						
2	ATRAZINE	1 pt/a		MPO							
2	COC	0.8 qt/a		MPO							
2	28%	1.5 qt/a		MPO							
3	CORVUS	2.5 oz/a		PRE	A	90 ab	97 a	100 a	100 a	0 b	94 ab
3	ATRAZINE	1 qt/a		PRE							
3	LAUDIS	3 oz/a		MPO	D						
3	ATRAZINE	2 pt/a		MPO							
3	MSO	0.8 qt/a		MPO							
3	28%	1.5 qt/a		MPO							
4	LEXAR	1.5 pt/a		PRE	A	63 d	79 a	92 a	100 a	0 b	77 c
4	LEXAR	1.5 pt/a		MPO	D						
4	NIS	6.4 oz/a		MPO							
5	HARNESS XTRA 5.6	2.1 qt/a		PRE	A	73 cd	100 a	80 b	100 a	0 b	100 a
5	LAUDIS	3 oz/a		MPO	D						
5	ATRAZINE	1 pt/a		MPO							
5	COC	0.8 qt/a		MPO							
5	28%	1.5 qt/a		MPO							
6	LAUDIS	3 oz/a		EPO	B	100 a	100 a	100 a	100 a	0 b	88 b
6	ATRAZINE	1 pt/a		EPO							
6	MSO	0.8 qt/a		EPO							
6	28%	1.5 qt/a		EPO							
7	IMPACT	0.75 oz/a		EPO	B	80 bc	83 a	93 a	100 a	0 b	80 c
7	ATRAZINE	1 pt/a		EPO							
7	COC	0.8 qt/a		EPO							
7	28%	1.5 qt/a		EPO							
8	LAUDIS	3 oz/a		MPO	C	77 bc	85 a	100 a	100 a	0 b	68 d
8	IGNITE	22 oz/a		MPO							
8	ATRAZINE	1 pt/a		MPO							
8	AMS	2 qt/a		MPO							
9	LAUDIS	3 oz/a		MPO	C	100 a	100 a	100 a	100 a	0 b	98 ab
9	ROUNDUP POWERMAX	22 oz/a		MPO							
9	ATRAZINE	1 pt/a		MPO							
9	AMS	2 qt/a		MPO							
10	LAUDIS	3 oz/a		MPO	C	91 ab	98 a	100 a	100 a	0 b	98 ab
10	ROUNDUP POWERMAX	11 oz/a		MPO							
10	ATRAZINE	1 qt/a		MPO							
10	AMS	2 qt/a		MPO							
11	ROUNDUP POWERMAX	22 oz/a		MPO	C	100 a	83 a	99 a	100 a	0 b	89 ab
11	ALLIANCE	1 qt/a		MPO							
12	ROUNDUP POWERMAX	22 oz/a		MPO	C	98 a	100 a	99 a	100 a	0 b	91 ab
12	LAUDIS	2 oz/a		MPO							
12	ALLIANCE	1 qt/a		MPO							
12	INTERLOCK	4 oz/a		MPO							
13	ROUNDUP POWERMAX	22 oz/a		MPO	C	95 a	95 a	100 a	100 a	0 b	91 ab
13	LAUDIS	2 oz/a		MPO							
13	ALLIANCE	1 qt/a		MPO							
13	INTERLOCK	4 oz/a		MPO							
13	SUPERB HC	0.4 qt/a		MPO							

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Weed Code						CHEAL	POLPY	ABUTH	AMARE	SETFA	
Crop Code						CONTROL	CONTROL	CONTROL	CONTROL	ZEAMX	CONTROL
Rating Data Type						PERCENT	PERCENT	PERCENT	PERCENT	PHTYO	PERCENT
Rating Unit						Jun/13/2008	Jun/13/2008	Jun/13/2008	Jun/13/2008	Jul/03/2008	Jul/03/2008
Rating Date						7 DA-C	7 DA-C	7 DA-C	7 DA-C	27 DA-C	27 DA-C
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	ROUNDUP POWERMAX	22 oz/a		MPO	C	99 a	99 a	100 a	100 a	5 a	94 ab
14	LAUDIS	2 oz/a		MPO							
14	ALLIANCE	1 qt/a		MPO							
14	INTERLOCK	4 oz/a		MPO							
14	DESTINY HC	0.4 qt/a		MPO							
15	ROUNDUP POWERMAX	22 oz/a		MPO	C	97 a	97 a	100 a	100 a	0 b	90 ab
15	LAUDIS	2 oz/a		MPO							
15	ALLIANCE	1 qt/a		MPO							
15	SUPERB HC	0.4 qt/a		MPO							
16	ROUNDUP POWERMAX	22 oz/a		MPO	C	99 a	99 a	100 a	100 a	0 b	92 ab
16	LAUDIS	2 oz/a		MPO							
16	ALLIANCE	1 qt/a		MPO							
16	DESTINY HC	0.4 qt/a		MPO							
17	ROUNDUP POWERMAX	22 oz/a		MPO	C	100 a	100 a	100 a	100 a	0 b	92 ab
17	LAUDIS	2 oz/a		MPO							
17	ALLIANCE	1 qt/a		MPO							
18	ROUNDUP POWERMAX	22 oz/a		MPO	C	98 a	98 a	100 a	100 a	0 b	93 ab
18	LAUDIS	2 oz/a		MPO							
18	ALLIANCE	1 qt/a		MPO							
18	MSO	0.8 qt/a		MPO							
LSD (P=.05)						10.2	11.8	9.7	0.0	0.0	6.7
Standard Deviation						6.1	7.1	5.8	0.0	0.0	4.0
CV						7.15	7.91	6.29	0.0	0.0	4.73
Bartlett's X2						19.709	22.425	19.88	0.0	0.0	21.538
P(Bartlett's X2)						0.073	0.021*	0.001*	.	.	0.159
Replicate F						0.490	1.623	2.202	0.000	0.000	9.546
Replicate Prob(F)						0.6169	0.2123	0.1261	1.0000	1.0000	0.0005
Treatment F						46.228	32.739	49.563	0.000	0.000	94.786
Treatment Prob(F)						0.0001	0.0001	0.0001	1.0000	1.0000	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	AMBTR	AMBEL	CHEAL	POLPY	ABUTH	AMARE
Crop Code						
Rating Data Type						
Rating Unit	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Date	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Trt-Eval Interval	Jul/03/2008	Jul/03/2008	Jul/03/2008	Jul/03/2008	Jul/03/2008	Jul/03/2008
# Subsamples, Dec.	27 DA-C	27 DA-C	27 DA-C	27 DA-C	27 DA-C	27 DA-C
	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 d	0 c	0 d	0 b
2	CORVUS	2.5 oz/a		PRE	A	99 a	100 a	100 a	100 a	100 a	100 a
2	ATRAZINE	1 qt/a		PRE							
2	LAUDIS	3 oz/a		MPO	D						
2	ATRAZINE	1 pt/a		MPO							
2	COC	0.8 qt/a		MPO							
2	28%	1.5 qt/a		MPO							
3	CORVUS	2.5 oz/a		PRE	A	100 a	100 a	100 a	100 a	100 a	100 a
3	ATRAZINE	1 qt/a		PRE							
3	LAUDIS	3 oz/a		MPO	D						
3	ATRAZINE	2 pt/a		MPO							
3	MSO	0.8 qt/a		MPO							
3	28%	1.5 qt/a		MPO							
4	LEXAR	1.5 pt/a		PRE	A	73 b	100 a	83 bc	73 b	100 a	100 a
4	LEXAR	1.5 pt/a		MPO	D						
4	NIS	6.4 oz/a		MPO							
5	HARNESS XTRA 5.6	2.1 qt/a		PRE	A	96 a	100 a	89 abc	100 a	99 a	100 a
5	LAUDIS	3 oz/a		MPO	D						
5	ATRAZINE	1 pt/a		MPO							
5	COC	0.8 qt/a		MPO							
5	28%	1.5 qt/a		MPO							
6	LAUDIS	3 oz/a		EPO	B	88 a	100 a	100 a	100 a	100 a	100 a
6	ATRAZINE	1 pt/a		EPO							
6	MSO	0.8 qt/a		EPO							
6	28%	1.5 qt/a		EPO							
7	IMPACT	0.75 oz/a		EPO	B	85 a	100 a	81 c	87 ab	82 c	98 a
7	ATRAZINE	1 pt/a		EPO							
7	COC	0.8 qt/a		EPO							
7	28%	1.5 qt/a		EPO							
8	LAUDIS	3 oz/a		MPO	C	97 a	100 a	90 abc	92 a	100 a	100 a
8	IGNITE	22 oz/a		MPO							
8	ATRAZINE	1 pt/a		MPO							
8	AMS	2 qt/a		MPO							
9	LAUDIS	3 oz/a		MPO	C	99 a	100 a	98 a	100 a	100 a	100 a
9	ROUNDUP POWERMAX	22 oz/a		MPO							
9	ATRAZINE	1 pt/a		MPO							
9	AMS	2 qt/a		MPO							
10	LAUDIS	3 oz/a		MPO	C	99 a	100 a	99 a	98 a	100 a	99 a
10	ROUNDUP POWERMAX	11 oz/a		MPO							
10	ATRAZINE	1 qt/a		MPO							
10	AMS	2 qt/a		MPO							
11	ROUNDUP POWERMAX	22 oz/a		MPO	C	84 a	93 a	94 ab	83 ab	89 b	90 a
11	ALLIANCE	1 qt/a		MPO							
12	ROUNDUP POWERMAX	22 oz/a		MPO	C	87 a	100 a	100 a	100 a	99 a	100 a
12	LAUDIS	2 oz/a		MPO							
12	ALLIANCE	1 qt/a		MPO							
12	INTERLOCK	4 oz/a		MPO							
13	ROUNDUP POWERMAX	22 oz/a		MPO	C	88 a	100 a	94 ab	99 a	96 a	94 a
13	LAUDIS	2 oz/a		MPO							
13	ALLIANCE	1 qt/a		MPO							
13	INTERLOCK	4 oz/a		MPO							
13	SUPERB HC	0.4 qt/a		MPO							

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Weed Code	AMBTR	AMBEL	CHEAL	POLPY	ABUTH	AMARE
Crop Code						
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	Jul/03/2008	Jul/03/2008	Jul/03/2008	Jul/03/2008	Jul/03/2008	Jul/03/2008
Trt-Eval Interval	27 DA-C	27 DA-C	27 DA-C	27 DA-C	27 DA-C	27 DA-C
# 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
14	ROUNDUP POWERMAX	22 oz/a		MPO	C	92 a	100 a	100 a	100 a	99 a	100 a
14	LAUDIS	2 oz/a		MPO							
14	ALLIANCE	1 qt/a		MPO							
14	INTERLOCK	4 oz/a		MPO							
14	DESTINY HC	0.4 qt/a		MPO							
15	ROUNDUP POWERMAX	22 oz/a		MPO	C	92 a	100 a	95 ab	94 a	100 a	93 a
15	LAUDIS	2 oz/a		MPO							
15	ALLIANCE	1 qt/a		MPO							
15	SUPERB HC	0.4 qt/a		MPO							
16	ROUNDUP POWERMAX	22 oz/a		MPO	C	87 a	98 a	100 a	99 a	98 a	97 a
16	LAUDIS	2 oz/a		MPO							
16	ALLIANCE	1 qt/a		MPO							
16	DESTINY HC	0.4 qt/a		MPO							
17	ROUNDUP POWERMAX	22 oz/a		MPO	C	90 a	100 a	100 a	100 a	100 a	94 a
17	LAUDIS	2 oz/a		MPO							
17	ALLIANCE	1 qt/a		MPO							
18	ROUNDUP POWERMAX	22 oz/a		MPO	C	91 a	100 a	95 ab	97 a	100 a	92 a
18	LAUDIS	2 oz/a		MPO							
18	ALLIANCE	1 qt/a		MPO							
18	MSO	0.8 qt/a		MPO							
LSD (P=.05)						9.6	4.6	8.2	12.8	2.8	6.5
Standard Deviation						5.8	2.8	4.9	7.7	1.7	3.9
CV						6.7	2.95	5.51	8.53	1.84	4.22
Bartlett's X2						28.818	11.042	36.959	21.82	21.222	18.128
P(Bartlett's X2)						0.017*	0.004*	0.001*	0.005*	0.012*	0.02*
Replicate F						2.545	1.446	2.560	0.637	4.123	1.795
Replicate Prob(F)						0.0933	0.2497	0.0921	0.5349	0.0249	0.1816
Treatment F						45.927	215.281	66.089	28.449	575.490	107.267
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.

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Weed Code	SETFA	AMBTR	AMBEL	CHEAL	ABUTH	POLPY					
Crop Code	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL					
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT					
Rating Unit	Aug/05/2008	Aug/05/2008	Aug/05/2008	Aug/05/2008	Aug/05/2008	Aug/05/2008					
Rating Date	60 DA-C	60 DA-C	60 DA-C	60 DA-C	60 DA-C	60 DA-C					
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	25	26	27	28	29	30
1	UTC					0 e	0 d	0 b	0 c	0 c	0 b
2	CORVUS	2.5 oz/a		PRE	A	99 a	98 ab	100 a	100 a	100 a	100 a
2	ATRAZINE	1 qt/a		PRE							
2	LAUDIS	3 oz/a		MPO	D						
2	ATRAZINE	1 pt/a		MPO							
2	COC	0.8 qt/a		MPO							
2	28%	1.5 qt/a		MPO							
3	CORVUS	2.5 oz/a		PRE	A	98 a	100 a	100 a	100 a	100 a	100 a
3	ATRAZINE	1 qt/a		PRE							
3	LAUDIS	3 oz/a		MPO	D						
3	ATRAZINE	2 pt/a		MPO							
3	MSO	0.8 qt/a		MPO							
3	28%	1.5 qt/a		MPO							
4	LEXAR	1.5 pt/a		PRE	A	53 c	63 c	100 a	93 a	100 a	100 a
4	LEXAR	1.5 pt/a		MPO	D						
4	NIS	6.4 oz/a		MPO							
5	HARNESS XTRA 5.6	2.1 qt/a		PRE	A	100 a	99 a	100 a	87 a	100 a	100 a
5	LAUDIS	3 oz/a		MPO	D						
5	ATRAZINE	1 pt/a		MPO							
5	COC	0.8 qt/a		MPO							
5	28%	1.5 qt/a		MPO							
6	LAUDIS	3 oz/a		EPO	B	78 ab	78 abc	100 a	100 a	100 a	100 a
6	ATRAZINE	1 pt/a		EPO							
6	MSO	0.8 qt/a		EPO							
6	28%	1.5 qt/a		EPO							
7	IMPACT	0.75 oz/a		EPO	B	67 bc	72 bc	100 a	67 b	100 a	87 a
7	ATRAZINE	1 pt/a		EPO							
7	COC	0.8 qt/a		EPO							
7	28%	1.5 qt/a		EPO							
8	LAUDIS	3 oz/a		MPO	C	23 d	97 ab	100 a	100 a	100 a	100 a
8	IGNITE	22 oz/a		MPO							
8	ATRAZINE	1 pt/a		MPO							
8	AMS	2 qt/a		MPO							
9	LAUDIS	3 oz/a		MPO	C	98 a	97 ab	100 a	99 a	100 a	100 a
9	ROUNDUP POWERMAX	22 oz/a		MPO							
9	ATRAZINE	1 pt/a		MPO							
9	AMS	2 qt/a		MPO							
10	LAUDIS	3 oz/a		MPO	C	98 a	97 ab	100 a	98 a	100 a	100 a
10	ROUNDUP POWERMAX	11 oz/a		MPO							
10	ATRAZINE	1 qt/a		MPO							
10	AMS	2 qt/a		MPO							
11	ROUNDUP POWERMAX	22 oz/a		MPO	C	85 ab	73 abc	100 a	83 a	90 b	97 a
11	ALLIANCE	1 qt/a		MPO							
12	ROUNDUP POWERMAX	22 oz/a		MPO	C	87 ab	80 abc	100 a	100 a	100 a	100 a
12	LAUDIS	2 oz/a		MPO							
12	ALLIANCE	1 qt/a		MPO							
12	INTERLOCK	4 oz/a		MPO							
13	ROUNDUP POWERMAX	22 oz/a		MPO	C	83 ab	77 abc	100 a	90 a	100 a	97 a
13	LAUDIS	2 oz/a		MPO							
13	ALLIANCE	1 qt/a		MPO							
13	INTERLOCK	4 oz/a		MPO							
13	SUPERB HC	0.4 qt/a		MPO							

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Weed Code						SETFA	AMBTR	AMBEL	CHEAL	ABUTH	POLPY
Crop Code						CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Data Type						PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit						Aug/05/2008	Aug/05/2008	Aug/05/2008	Aug/05/2008	Aug/05/2008	Aug/05/2008
Rating Date						60 DA-C	60 DA-C	60 DA-C	60 DA-C	60 DA-C	60 DA-C
Trt-Eval Interval						0	0	0	0	0	0
# Subsamples, Dec.						0	0	0	0	0	0
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	25	26	27	28	29	30
14	ROUNDUP POWERMAX	22	oz/a	MPO	C	89 a	86 abc	100 a	98 a	97 a	100 a
14	LAUDIS	2	oz/a	MPO							
14	ALLIANCE	1	qt/a	MPO							
14	INTERLOCK	4	oz/a	MPO							
14	DESTINY HC	0.4	qt/a	MPO							
15	ROUNDUP POWERMAX	22	oz/a	MPO	C	85 ab	84 abc	100 a	92 a	100 a	100 a
15	LAUDIS	2	oz/a	MPO							
15	ALLIANCE	1	qt/a	MPO							
15	SUPERB HC	0.4	qt/a	MPO							
16	ROUNDUP POWERMAX	22	oz/a	MPO	C	85 ab	76 abc	100 a	100 a	100 a	100 a
16	LAUDIS	2	oz/a	MPO							
16	ALLIANCE	1	qt/a	MPO							
16	DESTINY HC	0.4	qt/a	MPO							
17	ROUNDUP POWERMAX	22	oz/a	MPO	C	90 a	83 abc	100 a	98 a	99 a	100 a
17	LAUDIS	2	oz/a	MPO							
17	ALLIANCE	1	qt/a	MPO							
18	ROUNDUP POWERMAX	22	oz/a	MPO	C	96 a	83 abc	100 a	98 a	100 a	100 a
18	LAUDIS	2	oz/a	MPO							
18	ALLIANCE	1	qt/a	MPO							
18	MSO	0.8	qt/a	MPO							
LSD (P=.05)						13.6	15.2	0.0	9.7	4.7	9.7
Standard Deviation						8.1	9.1	0.0	5.8	2.8	5.8
CV						10.37	11.34	0.0	6.56	2.99	6.25
Bartlett's X2						20.813	28.109	0.0	16.946	4.37	5.08
P(Bartlett's X2)						0.107	0.021*	.	0.076	0.112	0.079
Replicate F						1.501	1.022	0.000	0.587	0.399	0.654
Replicate Prob(F)						0.2374	0.3707	1.0000	0.5615	0.6738	0.5265
Treatment F						33.878	18.807	0.000	49.884	211.388	48.808
Treatment Prob(F)						0.0001	0.0001	1.0000	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	AMARE
Crop Code	
Rating Data Type	CONTROL
Rating Unit	PERCENT
Rating Date	Aug/05/2008
Trt-Eval Interval	60 DA-C
# Subsamples, Dec.	0

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	31
1	UTC					0 b
2	CORVUS	2.5 oz/a		PRE	A	100 a
2	ATRAZINE	1 qt/a		PRE		
2	LAUDIS	3 oz/a		MPO	D	
2	ATRAZINE	1 pt/a		MPO		
2	COC	0.8 qt/a		MPO		
2	28%	1.5 qt/a		MPO		
3	CORVUS	2.5 oz/a		PRE	A	100 a
3	ATRAZINE	1 qt/a		PRE		
3	LAUDIS	3 oz/a		MPO	D	
3	ATRAZINE	2 pt/a		MPO		
3	MSO	0.8 qt/a		MPO		
3	28%	1.5 qt/a		MPO		
4	LEXAR	1.5 pt/a		PRE	A	100 a
4	LEXAR	1.5 pt/a		MPO	D	
4	NIS	6.4 oz/a		MPO		
5	HARNESS XTRA 5.6	2.1 qt/a		PRE	A	100 a
5	LAUDIS	3 oz/a		MPO	D	
5	ATRAZINE	1 pt/a		MPO		
5	COC	0.8 qt/a		MPO		
5	28%	1.5 qt/a		MPO		
6	LAUDIS	3 oz/a		EPO	B	100 a
6	ATRAZINE	1 pt/a		EPO		
6	MSO	0.8 qt/a		EPO		
6	28%	1.5 qt/a		EPO		
7	IMPACT	0.75 oz/a		EPO	B	93 a
7	ATRAZINE	1 pt/a		EPO		
7	COC	0.8 qt/a		EPO		
7	28%	1.5 qt/a		EPO		
8	LAUDIS	3 oz/a		MPO	C	100 a
8	IGNITE	22 oz/a		MPO		
8	ATRAZINE	1 pt/a		MPO		
8	AMS	2 qt/a		MPO		
9	LAUDIS	3 oz/a		MPO	C	100 a
9	ROUNDUP POWERMAX	22 oz/a		MPO		
9	ATRAZINE	1 pt/a		MPO		
9	AMS	2 qt/a		MPO		
10	LAUDIS	3 oz/a		MPO	C	100 a
10	ROUNDUP POWERMAX	11 oz/a		MPO		
10	ATRAZINE	1 qt/a		MPO		
10	AMS	2 qt/a		MPO		
11	ROUNDUP POWERMAX	22 oz/a		MPO	C	87 a
11	ALLIANCE	1 qt/a		MPO		
12	ROUNDUP POWERMAX	22 oz/a		MPO	C	100 a
12	LAUDIS	2 oz/a		MPO		
12	ALLIANCE	1 qt/a		MPO		
12	INTERLOCK	4 oz/a		MPO		
13	ROUNDUP POWERMAX	22 oz/a		MPO	C	93 a
13	LAUDIS	2 oz/a		MPO		
13	ALLIANCE	1 qt/a		MPO		
13	INTERLOCK	4 oz/a		MPO		
13	SUPERB HC	0.4 qt/a		MPO		

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Weed Code AMARE  
 Crop Code  
 Rating Data Type CONTROL  
 Rating Unit PERCENT  
 Rating Date Aug/05/2008  
 Trt-Eval Interval 60 DA-C  
 # Subsamples, Dec. 0

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	
						31
14	ROUNDUP POWERMAX	22 oz/a		MPO	C	97 a
14	LAUDIS	2 oz/a		MPO		
14	ALLIANCE	1 qt/a		MPO		
14	INTERLOCK	4 oz/a		MPO		
14	DESTINY HC	0.4 qt/a		MPO		
15	ROUNDUP POWERMAX	22 oz/a		MPO	C	92 a
15	LAUDIS	2 oz/a		MPO		
15	ALLIANCE	1 qt/a		MPO		
15	SUPERB HC	0.4 qt/a		MPO		
16	ROUNDUP POWERMAX	22 oz/a		MPO	C	99 a
16	LAUDIS	2 oz/a		MPO		
16	ALLIANCE	1 qt/a		MPO		
16	DESTINY HC	0.4 qt/a		MPO		
17	ROUNDUP POWERMAX	22 oz/a		MPO	C	92 a
17	LAUDIS	2 oz/a		MPO		
17	ALLIANCE	1 qt/a		MPO		
18	ROUNDUP POWERMAX	22 oz/a		MPO	C	92 a
18	LAUDIS	2 oz/a		MPO		
18	ALLIANCE	1 qt/a		MPO		
18	MSO	0.8 qt/a		MPO		
LSD (P=.05)						10.7
Standard Deviation						6.4
CV						7.04
Bartlett's X2						8.318
P(Bartlett's X2)						0.305
Replicate F						3.192
Replicate Prob(F)						0.0536
Treatment F						38.968
Treatment Prob(F)						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.