

Ohio State University Horticulture and Crop Science

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	SETFA .	SETFA 3-5"
Stage Scale:	. .	2-3 LVS
Density, Unit:	. .	8.25 M2
Weed 2 Code, Stage:	CHEAL .	CHEAL 2-3"
Stage Scale:	. .	6-8 LVS
Density, Unit:	. .	18 M2
Weed 3 Code, Stage:	AMBTR .	AMBTR 10"
Stage Scale:	. .	6-12 LVS
Density, Unit:	. .	11.2 M2
Weed 4 Code, Stage:	POLPY .	POLPY 2"
Stage Scale:	. .	5 LVS
Density, Unit:	. .	22.5 M2
Weed 5 Code, Stage:	AMARE .	AMARE 2-4"
Stage Scale:	. .	6-10 LVS
Density, Unit:	. .	0.33 M2
Weed 6 Code, Stage:	ABUTH .	ABUTH 3"
Stage Scale:	. .	5 LVS
Density, Unit:	. .	6.75 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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POSTEMERGENCE BROADLEAF WEED CONTROL IN CORN WITH PERMIT AND YUKON

Trial ID: 07POCBLF1
Location: WESTERN BRANCH BIG E

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

Weed Code	ZEAMX	ZEAMX	SETFA	CHEAL	ABUTH	AMBTR
Crop Code	PHYTO	PHYTO	CONTROL	CONTROL	CONTROL	CONTROL
Rating Data Type	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Unit	Jun/08/2007	Jun/14/2007	Jun/14/2007	Jun/14/2007	Jun/14/2007	Jun/14/2007
Rating Date	5 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B
Trt-Eval Interval	0	0	0	0	0	0
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Unit	Appl Code	1	2	3	4	5	6
1	DUAL II MAGNUM	0.63	lb ai/a	0.66	pt/a	A	0 c	0 c	73 bc	75 b	86 a	67 d
1	PERMIT	0.031	lb ai/a	0.66	oz/a	B						
1	ATRAZINE	0.5	lb ai/a	1	pt/a							
1	COC	1	% v/v	0.8	qt/a							
1	AMS	2.5	% v/v	2	qt/a							
2	DUAL II MAGNUM	0.63	lb ai/a	0.66	pt/a	A	0 c	0 c	63 cd	88 ab	100 a	80 bcd
2	PERMIT	0.031	lb ai/a	0.66	oz/a	B						
2	CALLISTO	0.0313	lb ai/a	1	oz/a							
2	COC	1	% v/v	0.8	qt/a							
2	AMS	2.5	% v/v	2	qt/a							
3	DUAL II MAGNUM	0.63	lb ai/a	0.66	pt/a	A	2 b	2 b	61 cd	88 ab	100 a	83 abc
3	PERMIT	0.031	lb ai/a	0.66	oz/a	B						
3	LAUDIS	0.0273	lb ai/a	1	oz/a							
3	COC	1	% v/v	0.8	qt/a							
3	AMS	2.5	% v/v	2	qt/a							
4	DUAL II MAGNUM	0.63	lb ai/a	0.66	pt/a	A	3 a	0 c	53 d	56 c	73 b	78 bcd
4	PERMIT	0.031	lb ai/a	0.66	oz/a	B						
4	BUCTRIL	0.25	lb ai/a	0.5	pt/a							
4	NIS	0.25	% v/v	6.4	oz/a							
5	DUAL II MAGNUM	0.63	lb ai/a	0.66	pt/a	A	2 ab	3 a	65 cd	48 c	100 a	83 abc
5	YUKON	0.253	lb ai/a	6	oz/a	B						
5	COC	1	% v/v	0.8	qt/a							
6	DUAL II MAGNUM	0.63	lb ai/a	0.66	pt/a	A	2 ab	3 a	60 cd	45 c	100 a	76 cd
6	YUKON	0.21	lb ai/a	5	oz/a	B						
6	COC	1	% v/v	0.8	qt/a							
7	DUAL II MAGNUM	0.63	lb ai/a	0.66	pt/a	A	2 ab	3 a	63 cd	55 c	100 a	80 bcd
7	YUKON	0.169	lb ai/a	4	oz/a	B						
7	COC	1	% v/v	0.8	qt/a							
8	DUAL II MAGNUM	0.63	lb ai/a	0.66	pt/a	A	0 c	0 c	76 b	100 a	100 a	95 a
8	CALLISTO	0.094	lb ai/a	3	oz/a	B						
8	ATRAZINE	0.5	lb ai/a	16	oz/a							
8	COC	1	% v/v	0.8	qt/a							
8	AMS	2.5	% v/v	2	qt/a							
9	DUAL II MAGNUM	0.63	lb ai/a	0.66	pt/a	A	0 c	0 c	96 a	98 a	100 a	91 ab
9	IMPACT	0.0164	lb ai/a	0.75	oz/a	B						
9	ATRAZINE	0.5	lb ai/a	1	pt/a							
9	COC	1	% v/v	0.8	qt/a							
9	AMS	2.5	% v/v	2	qt/a							
10	UTC						0 c	0 c	0 e	0 d	0 c	0 e
LSD (P=.05)							0.5	0.7	9.0	11.7	9.8	9.2
Standard Deviation							0.4	0.5	6.2	8.1	6.8	6.3
CV							35.49	44.85	10.17	12.37	7.88	8.67
Bartlett's X2							0.849	2.74	7.442	8.449	1.029	9.316
P(Bartlett's X2)							0.357	0.098	0.49	0.295	0.31	0.231

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Weed Code			SETFA	CHEAL	ABUTH	AMBTR
Crop Code	ZEAMX	ZEAMX				
Rating Data Type	PHYTO	PHYTO	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	Jun/08/2007	Jun/14/2007	Jun/14/2007	Jun/14/2007	Jun/14/2007	Jun/14/2007
Trt-Eval Interval	5 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Rate Unit	Appl Code	1	2	3	4	5	6
Replicate F		1.588						0.681	8.021	0.344	1.141	0.996
Replicate Prob(F)		0.2153						0.5712	0.0006	0.7940	0.3501	0.4104
Treatment F		37.059						34.434	62.902	58.233	86.833	71.440
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		ZEAMX		SETFA		CHEAL		ABUTH		AMBTR	
Crop Code				PHYTO		CONTROL		CONTROL		CONTROL		CONTROL	
Rating Data Type		PERCENT		PERCENT		PERCENT		PERCENT		PERCENT		PERCENT	
Rating Unit													
Rating Date		Jun/14/2007		Jun/29/2007		Jun/29/2007		Jun/29/2007		Jun/29/2007		Jun/29/2007	
Trt-Eval Interval		13 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	Unit	Product Rate	Product Unit	Appl Code	7	8	9	10	11	12	
1	DUAL II MAGNUM	0.63	lb ai/a	0.66	pt/a	A	76 b	0 a	63 a	61 c	83 b	62 b	
1	PERMIT	0.031	lb ai/a	0.66	oz/a	B							
1	ATRAZINE	0.5	lb ai/a	1	pt/a								
1	COC	1	% v/v	0.8	qt/a								
1	AMS	2.5	% v/v	2	qt/a								
2	DUAL II MAGNUM	0.63	lb ai/a	0.66	pt/a	A	95 a	0 a	68 a	84 b	100 a	83 a	
2	PERMIT	0.031	lb ai/a	0.66	oz/a	B							
2	CALLISTO	0.0313	lb ai/a	1	oz/a								
2	COC	1	% v/v	0.8	qt/a								
2	AMS	2.5	% v/v	2	qt/a								
3	DUAL II MAGNUM	0.63	lb ai/a	0.66	pt/a	A	77 b	0 a	55 a	78 b	98 a	86 a	
3	PERMIT	0.031	lb ai/a	0.66	oz/a	B							
3	LAUDIS	0.0273	lb ai/a	1	oz/a								
3	COC	1	% v/v	0.8	qt/a								
3	AMS	2.5	% v/v	2	qt/a								
4	DUAL II MAGNUM	0.63	lb ai/a	0.66	pt/a	A	73 b	0 a	35 b	43 d	60 c	83 a	
4	PERMIT	0.031	lb ai/a	0.66	oz/a	B							
4	BUCTRIL	0.25	lb ai/a	0.5	pt/a								
4	NIS	0.25	% v/v	6.4	oz/a								
5	DUAL II MAGNUM	0.63	lb ai/a	0.66	pt/a	A	73 b	0 a	70 a	28 e	100 a	85 a	
5	YUKON	0.253	lb ai/a	6	oz/a	B							
5	COC	1	% v/v	0.8	qt/a								
6	DUAL II MAGNUM	0.63	lb ai/a	0.66	pt/a	A	71 b	0 a	63 a	25 e	100 a	98 a	
6	YUKON	0.21	lb ai/a	5	oz/a	B							
6	COC	1	% v/v	0.8	qt/a								
7	DUAL II MAGNUM	0.63	lb ai/a	0.66	pt/a	A	70 b	0 a	68 a	23 e	100 a	100 a	
7	YUKON	0.169	lb ai/a	4	oz/a	B							
7	COC	1	% v/v	0.8	qt/a								
8	DUAL II MAGNUM	0.63	lb ai/a	0.66	pt/a	A	100 a	0 a	60 a	100 a	100 a	94 a	
8	CALLISTO	0.094	lb ai/a	3	oz/a	B							
8	ATRAZINE	0.5	lb ai/a	16	oz/a								
8	COC	1	% v/v	0.8	qt/a								
8	AMS	2.5	% v/v	2	qt/a								
9	DUAL II MAGNUM	0.63	lb ai/a	0.66	pt/a	A	85 b	0 a	78 a	100 a	96 a	84 a	
9	IMPACT	0.0164	lb ai/a	0.75	oz/a	B							
9	ATRAZINE	0.5	lb ai/a	1	pt/a								
9	COC	1	% v/v	0.8	qt/a								
9	AMS	2.5	% v/v	2	qt/a								
10	UTC						0 c	0 a	0 c	0 f	0 d	0 c	
	LSD (P=.05)						9.8	0.0	14.7	11.4	8.8	13.8	
	Standard Deviation						6.6	0.0	10.2	7.9	6.1	9.5	
	CV						9.2	0.0	18.23	14.55	7.3	12.24	
	Bartlett's X2						4.897	0.0	16.967	8.633	14.885	8.657	
	P(Bartlett's X2)						0.557	.	0.03*	0.195	0.005*	0.194	
	Replicate F						0.427	0.000	3.188	0.918	2.060	1.229	
	Replicate Prob(F)						0.7355	1.0000	0.0396	0.4456	0.1292	0.3191	
	Treatment F						68.027	0.000	19.805	81.360	110.064	38.023	
	Treatment Prob(F)						0.0001	1.0000	0.0001	0.0001	0.0001	0.0001	

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Weed Code	POLPY		SETFA		CHEAL	ABUTH	AMBTR
Crop Code	ZEAMX						
Rating Data Type	CONTROL	PHYTO	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	Jun/14/2007	Jun/29/2007	Jun/29/2007	Jun/29/2007	Jun/29/2007	Jun/29/2007	Jun/29/2007
Trt-Eval Interval	13 DA-B	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	0

Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Unit	Appl Code
7						
8						
9						
10						
11						
12						

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	SETFA	CHEAL	ABUTH	AMBTR	POLPY
Crop Code							
Rating Data Type		CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date		Jun/29/2007	Jul/27/2007	Jul/27/2007	Jul/27/2007	Jul/27/2007	Jul/27/2007
Trt-Eval Interval		28 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	Unit	Product Rate	Product Rate Unit	Product Code	Appl
13							
14							
15							
16							
17							
18							

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.