

# Purdue University

## Dandelion Control in Corn

Trial ID: 03-ACRE-CORN-DAND  
Location:

Study Dir.:  
Investigator: Dr. Bill Johnson

### GENERAL TRIAL INFORMATION

Investigator: Dr. Bill Johnson

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	TAROF	DANDELION, COMMON	TARAXACUM OFFICINALE WEBER IN WIGGERS

Crop 1: ZEAMX CORN, FIELD

Variety: DK 60-09 RR

Planting Date: 19/May/2003

Rate: 30000 S/A

Row Spacing: 30 IN

### SITE AND DESIGN

Plot Width, Unit: 5 FT Plot Length, Unit: 12.5 FT Reps: 4

Study Design: RANDOMIZED COMPLETE BLOCK

### MAINTENANCE

Field Prep./Maintenance: 150# N knifed in by DTC staff - 06/23/2003

### APPLICATION DESCRIPTION

	A	B	C
Application Date:	8/May/2003	5/Jun/2003	25/Jun/2003
Application Method:	SPRAY	SPRAY	SPRAY
Air Temp., Unit:	75 F	75 F	81 F
% Relative Humidity:	55	35	72
Wind Velocity, Unit:	2 mph	4.5 MPH	5 MPH
Soil Temp., Unit:	18 C	23 C	26 C
% Cloud Cover:	100	30	0

### CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	ZEAMX preplant	ZEAMX epost	ZEAMX post
Stage Scale:	NA	V1	v3/v4
Height, Unit:		2 IN	5 IN

### WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	TAROF burndown	TAROF epost	TAROF post
Stage Scale:	8-14" DIA	8-12" DIA	variable
Density, Unit:	2 FT2	2-3 FT2	2-3 FT2

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Weed Code	TAROF	TAROF	TAROF	TAROF
Rating Date	22/May/2003	5/Jun/2003	18/Jun/2003	11/Jul/2003
Weed Stage			10 - 18"	
Trt-Eval Interval	14 DA-A	28 DA-A	13 DA-B	16 DA-C
# Subsamples, Dec.	0	0	0	0
Trt No.	Treatment Name	Rate	Grow Stg	
		Rate Unit		
1	Glyphomax Plus (ae) Curtail (ae)		pre pre	
2	Glyphomax Plus (ae) Hornet WDG AMS		epost epost epost	
3	Glyphomax Plus (ae) Glyphomax Plus (ae) Curtail (ae) AMS		pre epost epost epost	
4	Glyphomax Plus (ae) Curtail (ae) AMS		epost epost epost	
5	Keystone Curtail (ae) Glyphomax Plus (ae) AMS		pre epost epost epost	
6	Keystone 2,4-D Ester		pre epost	6 fg 8 f 20 e 93 ab
7	Keystone 2,4-D Ester		pre epost	19 ef 5 f 40 de 94 ab
8	Keystone Hornet WDG NIS		pre epost epost	6 fg 6 f 16 e 88 abc
9	Keystone Hornet WDG 2,4-D Ester		pre epost epost	6 fg 5 f 30 de 98 a
10	Keystone Curtail (ae) Hornet WDG		pre epost epost	5 fg 5 f 23 e 96 a
11	Keystone Curtail (ae) 2,4-D Ester		pre epost epost	5 fg 6 f 37 de 98 a
12	Dual II Magnum Balance Pro Atrazine COC		pre pre pre pre	52 cd 51 de 35 de 35 f
13	Dual II Magnum Balance Pro Atrazine 2,4-D Ester COC		pre pre pre pre pre	60 bc 83 ab 65 bc 65 d
14	Lumax COC		pre pre	72 b 82 ab 63 bc 61 de
15	Lumax 2,4-D Ester		pre pre	58 c 90 ab 85 ab 81 a-d
16	Lumax Gramoxone Max COC		pre pre pre	94 a 95 a 80 ab 70 bcd
17	Lumax Gramoxone Max 2,4-D Ester COC		pre pre pre pre	95 a 95 a 84 ab 78 a-d

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Weed Stage			10 - 18"				
Trt-Eval Interval	14 DA-A	28 DA-A	13 DA-B	16 DA-C			
# Subsamples, Dec.	0	0	0	0			
Trt No.	Treatment Name	Rate	Grow Stg	1	2	3	4
18	Bicep II Magnum 2,4-D Ester COC		pre pre pre	39 d	50 de	52 cd	68 cd
19	Bicep II Magnum Gramoxone Max COC		pre pre pre	72 b	65 cd	49 cd	45 ef
20	Bicep II Magnum Gramoxone Max 2,4-D Ester COC		pre pre pre pre	90 a	80 ab	53 cd	41 ef
21	Field Master AMS		pre pre	38 d	74 bc	87 ab	76 a-d
22	Field Master 2,4-D Ester AMS		pre pre pre	74 b	91 ab	93 a	90 abc
23	Roundup Weathermax AMS Bicep II Magnum		pre pre pre	39 d	82 ab	92 a	90 abc
24	Roundup Weathermax 2,4-D Ester AMS Bicep II Magnum		pre pre pre pre	51 cd	83 ab	92 a	90 abc
25	Bicep II Magnum Hornet WDG COC		pre pre pre	24 e	46 e	35 de	60 de
26	Bicep II Magnum Hornet WDG 2,4-D Ester COC		pre pre pre pre	49 cd	61 cde	81 ab	93 ab
27	Untreated			0 g	0 f	0 f	60 de
LSD (P=.05)				10.6	11.8	15.6	14.3
Standard Deviation				7.5	8.3	11.0	10.1
CV				17.44	15.82	20.11	13.32
Grand Mean				43.16	52.74	54.9	75.83
Bartlett's X2				46.594	46.84	39.304	63.843
P(Bartlett's X2)				0.001*	0.001*	0.006*	0.001*
Replicate F				1.275	5.325	5.244	0.333
Replicate Prob(F)				0.2908	0.0025	0.0027	0.8012
Treatment F				69.585	74.968	26.991	14.530
Treatment Prob(F)				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.