

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	53 cde 61 bcd 66 a-d 74 abc
2	Glyphomax Plus (ae) Hornet WDG AMS		epost epost epost	0 i 0 e 30 e-h 95 a
3	Glyphomax Plus (ae) Glyphomax Plus (ae) Curtail (ae) AMS		pre epost epost epost	29 fg 54 cd 94 a 95 a
4	Glyphomax Plus (ae) Curtail (ae) AMS		epost epost epost	0 i 0 e 59 b-e 98 a
5	Keystone Curtail (ae) Glyphomax Plus (ae) AMS		pre epost epost epost	5 hi 9 e 63 a-d 96 a
6	Keystone 2,4-D Ester		pre epost	6 hi 8 e 20 ghi 93 a
7	Keystone 2,4-D Ester		pre epost	19 ghi 5 e 40 d-h 94 a
8	Keystone Hornet WDG NIS		pre epost epost	6 hi 6 e 16 hi 88 ab
9	Keystone Hornet WDG 2,4-D Ester		pre epost epost	6 hi 5 e 30 e-h 98 a
10	Keystone Curtail (ae) Hornet WDG		pre epost epost	5 hi 5 e 23 f-i 96 a
11	Keystone Curtail (ae) 2,4-D Ester		pre epost epost	5 hi 6 e 37 d-h 98 a
12	Dual II Magnum Balance Pro Atrazine COC		pre pre pre pre	52 cde 51 d 35 d-h 35 e
13	Dual II Magnum Balance Pro Atrazine 2,4-D Ester COC		pre pre pre pre pre	60 bc 83 ab 65 a-d 65 c
14	Lumax COC		pre pre	72 b 82 ab 63 a-d 61 cd
15	Lumax 2,4-D Ester		pre pre	58 bcd 90 a 85 ab 81 abc
16	Lumax Gramoxone Max COC		pre pre pre	94 a 95 a 80 abc 70 bc
17	Lumax Gramoxone Max 2,4-D Ester COC		pre pre pre pre	95 a 95 a 84 ab 78 abc

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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
		Rate Unit					
18	Bicep II Magnum 2,4-D Ester COC		pre pre pre	39 def	50 d	52 c-f	68 bc
19	Bicep II Magnum Gramoxone Max COC		pre pre pre	72 b	65 bcd	49 d-g	45 de
20	Bicep II Magnum Gramoxone Max 2,4-D Ester COC		pre pre pre pre	90 a	80 ab	53 c-f	41 e
21	Field Master AMS		pre pre	38 ef	74 abc	87 ab	76 abc
22	Field Master 2,4-D Ester AMS		pre pre pre	74 b	91 a	93 a	90 ab
23	Roundup Weathermax AMS Bicep II Magnum		pre pre pre	39 def	82 ab	92 a	90 ab
24	Roundup Weathermax 2,4-D Ester AMS Bicep II Magnum		pre pre pre pre	51 cde	83 ab	92 a	90 ab
25	Bicep II Magnum Hornet WDG COC		pre pre pre	24 fgh	46 d	35 d-h	60 cd
26	Bicep II Magnum Hornet WDG 2,4-D Ester COC		pre pre pre pre	49 cde	61 bcd	81 abc	93 a
27	Untreated			0 i	0 e	0 i	60 cd
LSD (P=.05)				12.4	15.4	18.9	13.7
Standard Deviation				8.8	10.9	13.3	9.7
CV				22.89	22.83	23.68	12.34
Grand Mean				38.38	47.56	56.31	78.71
Bartlett's X2				64.727	69.49	67.88	93.332
P(Bartlett's X2)				0.001*	0.001*	0.001*	0.001*
Replicate F				1.325	2.856	3.724	0.258
Replicate Prob(F)				0.2722	0.0424	0.0147	0.8552
Treatment F				50.946	44.698	16.932	14.935
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.