

University of Wisconsin-Madison

General Trial Information

Study Director: T. L. Trower **Title:** Sr. Outreach Specialist
Investigator: V. M. Davis
Discipline: H herbicide
Initiation Date: Apr-29-2011

Trial Location

City: Arlington **Latitude of LL Corner °:** 43.18119 N
State/Prov.: WI **Longitude of LL Corner °:** 89.20301 W
Postal Code: 53911 **Altitude of LL Corner, Unit:** 1063.00 FT
Country: USA United States

Pest Description

Pest 1 Type: W **Code:** TAROF Taraxacum officinale
Common Name: Common dandelion

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FALLOW fallow
Plot Length, Unit: 25 FT **Tillage Type:** NOTILL no-till
Plot Area, Unit: 250 FT2 **Study Design:** RACOB L Randomized Complete Block (RCB)
Replications: 4 **Untreated Arrangement:** INCLUDED single control randomized in each block

Soil Description

Texture: SIL silt loam

Application Description

	A	B	C
Application Date:	Nov-2-2010	Apr-29-2011	May-27-2011
Time of Day:	3:00 pm	10:30am	8:00am
Application Method:	Broadcast	Broadcast	Broadcast
Application Timing:	Pre	PRE	PRE
Application Placement:	Foliage	Foliage	Foliage
Applied By:	T. Trower	T. Trower	T. Trower
Air Temperature, Unit:	50 F	57 F	44 F
% Relative Humidity:	40	53	50
Wind Velocity, Unit:	3 MPH	0 MPH	5 MPH
Wind Direction:	S/SW		
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	46 F	51 F	46 F
Soil Moisture:	moist	MST/MST	WET
% Cloud Cover:		0	100

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	TAROF W	TAROF W	TAROF W
Stage Majority, Percent:	6 lvs	4 lvs	
Stage Minimum, Percent:	7 lvs		
Diameter, Unit:	6 IN	5	10 IN
IN	IN	IN	
Height Minimum, Maximum:			3 17
Density, Unit:	5 FT2	4 FT2	5 FT2

Application Equipment

	A	B	C
Operating Pressure, Unit:	30 PSI	30 PSI	30 PSI
Nozzle Type:	XR8003	XR8003	XR8003
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN
Nozzles/Row:	6	6	6
Boom Length, Unit:	10 FT	10 FT	10 FT
Boom Height, Unit:	19 IN	19 IN	19 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	Water	Water	WATER
Spray Volume, Unit:	20 GAL/A	20 GAL/A	20 GAL/A
Mix Size, Unit:	2.2 Liters	2.2 Liters	2.2 Liters
Propellant:	CO2	CO2	CO2

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Rating Date Rating Type Rating Unit Pest Name Description					Jun-8-2011 Contrl % Common dandelion Seedling	Jun-8-2011 Control % Common dandelion Mature	May-2-2011 CONTROL % Common dandelion Seedling	May-2-2011 CONTROL % Common dandelion Mature
Trt No.	Treatment Name	Rate	Unit	Appl Code	4	3	2	1
1	Untreated Check				0	0	0	0
2	2,4-D LVE	1 pt/a	A		0 d	44 e	0 c	94 c
	Roundup PowerMax	1 lb ae/a	A					
3	Enlite	2.8 oz/a	A		90 ab	85 bc	0 c	95 bc
	classic	0.08 oz ai/a	A					
	harmony	0.25 oz ai/a	A					
	valor	2 oz/a	A					
	2,4-D LVE	1 pt/a	A					
	Roundup PowerMax	1 lb ae/a	A					
	COC	1 % v/v						
4	Synchrony	0.375 oz/a	A		79 abc	89 ab	83 b	97 abc
	Harmony GT	0.02587 oz ai/a	A					
	Classic	0.08062 oz ai/a	A					
	2,4-D LVE	1 pt/a	A					
	Roundup PowerMax	1 lb ae/a	A					
	COC	1 % v/v						
5	Express	0.2 oz/a	A		95 a	95 a	89 ab	99 a
	Basis	0.33 oz/a	A					
	2,4-D LVE	1 pt/a	A					
	Roundup PowerMax	1 lb ae/a	A					
	COC	1 % v/v						
6	2,4-D LVE	1 pt/a	B		0 d	39 e	0 c	90 d
	Roundup PowerMax	1 lb ae/a	B					
7	Enlite	2.8 oz/a	B		75 abc	75 d	99 a	96 abc
	classic	0.08 oz ai/a	B					
	harmony	0.25 oz ai/a	B					
	valor	1 oz/a	B					
	2,4-D LVE	1 pt/a	B					
	Roundup PowerMax	1 lb ae/a	B					
8	Synchrony	0.375 oz/a	B		83 abc	82 bcd	83 b	98 ab
	Harmony GT	0.02587 oz ai/a	B					
	Classic	0.08062 oz ai/a	B					
	2,4-D LVE	1 pt/a	B					
	Roundup PowerMax	1 lb ae/a	B					
9	Express	0.25 oz/a	B		96 a	94 a	87 ab	94 c
	2,4-D LVE	1 pt/a	B					
	Roundup PowerMax	1 lb ae/a	B					
10	2,4-D LVE	1 pt/a	C		63 c	81 cd	0 c	0 e
	Roundup PowerMax	1 lb ae/a	C					
11	Enlite	2.8 oz/a	C		80 abc	83 bcd	0 c	0 e
	classic	0.08 oz ai/a	C					
	harmony	0.25 oz ai/a	C					
	valor	1 oz/a	C					
	2,4-D LVE	1 pt/a	C					
	Roundup PowerMax	1 lb ae/a	C					
12	Synchrony	0.375 oz/a	C		78 abc	81 bcd	0 c	0 e
	Harmony GT	0.02587 oz ai/a	C					
	Classic	0.08062 oz ai/a	C					
	2,4-D LVE	1 pt/a	C					
	Roundup PowerMax	1 lb ae/a	C					
13	Express	0.25 oz/a	C		98 a	81 bcd	0 c	0 e
	2,4-D LVE	1 pt/a	C					
	Roundup PowerMax	1 lb ae/a	C					

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Rating Date Rating Type Rating Unit Pest Name Description					Jun-8-2011 Contrl % Common dandelion> Seedling	Jun-8-2011 Control % Common dandelion> Mature	May-2-2011 CONTROL % Common dandelion> Seedling	May-2-2011 CONTROL % Common dandelion> Mature
Trt	Treatment	Rate	Unit	Appl				
No.	Name			Code	4	3	2	1
14	2,4-D LVE	1 pt/a	D		68 bc	11 f	0 c	0 e
	Roundup PowerMax	1 lb ae/a	D					
	AMS	8.5 lb/100 gal						
15	Enlite	2.8 oz/a	D		98 a	43 e	0 c	0 e
	classic	0.08 oz ai/a	D					
	harmony	0.25 oz ai/a	D					
	valor	1 oz/a	D					
	2,4-D LVE	1 pt/a	D					
	Roundup PowerMax	1 lb ae/a	D					
	COC	1 % v/v						
	AMS	8.5 lb/100 gal						
16	Synchrony	0.375 oz/a	D		79 abc	13 f	0 c	0 e
	Harmony GT	0.02587 oz ai/a	D					
	Classic	0.08062 oz ai/a	D					
	2,4-D LVE	1 pt/a	D					
	Roundup PowerMax	1 lb ae/a	D					
	COC	1 % v/v						
	AMS	8.5 lb/100 gal						
17	Express	0.25 oz/a	D		82 abc	13 f	0 c	0 e
	2,4-D LVE	1 pt/a	D					
	Roundup PowerMax	1 lb ae/a	D					
	COC	1 % v/v						
	AMS	8.5 lb/100 gal						
LSD (P=.10)					23.5	8.3	12.3	3.4

Means followed by same letter do not significantly differ (P=.10, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Untreated treatment(s) 1 excluded from analysis.

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Rating Date Rating Type Rating Unit Pest Name					Jun-8-2011 CONTROL % Faber's foxtail	Jun-8-2011 CONTROL % Common lambsqu>	Jun-8-2011 CONTROL % Shepherd's pur>
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	5	6	7
1	Untreated Check				0	0	0
2	2,4-D LVE	1	pt/a	A	0 d	0 c	0 b
	Roundup PowerMax	1	lb ae/a	A			
3	Enlite	2.8	oz/a	A	48 bc	100 a	100 a
	classic	0.08	oz ai/a	A			
	harmony	0.25	oz ai/a	A			
	valor	2	oz/a	A			
	2,4-D LVE	1	pt/a	A			
	Roundup PowerMax	1	lb ae/a	A			
	COC	1	% v/v				
4	Synchrony	0.375	oz/a	A	5 d	100 a	100 a
	Harmony GT	0.02587	oz ai/a	A			
	Classic	0.08062	oz ai/a	A			
	2,4-D LVE	1	pt/a	A			
	Roundup PowerMax	1	lb ae/a	A			
	COC	1	% v/v				
5	Express	0.2	oz/a	A	83 a	85 a	100 a
	Basis	0.33	oz/a	A			
	2,4-D LVE	1	pt/a	A			
	Roundup PowerMax	1	lb ae/a	A			
	COC	1	% v/v				
6	2,4-D LVE	1	pt/a	B	25 cd	0 c	0 b
	Roundup PowerMax	1	lb ae/a	B			
7	Enlite	2.8	oz/a	B	50 abc	100 a	100 a
	classic	0.08	oz ai/a	B			
	harmony	0.25	oz ai/a	B			
	valor	1	oz/a	B			
	2,4-D LVE	1	pt/a	B			
	Roundup PowerMax	1	lb ae/a	B			
8	Synchrony	0.375	oz/a	B	20 cd	100 a	100 a
	Harmony GT	0.02587	oz ai/a	B			
	Classic	0.08062	oz ai/a	B			
	2,4-D LVE	1	pt/a	B			
	Roundup PowerMax	1	lb ae/a	B			
9	Express	0.25	oz/a	B	63 ab	99 a	100 a
	2,4-D LVE	1	pt/a	B			
	Roundup PowerMax	1	lb ae/a	B			
10	2,4-D LVE	1	pt/a	C	10 d	54 b	100 a
	Roundup PowerMax	1	lb ae/a	C			
11	Enlite	2.8	oz/a	C	62 ab	100 a	100 a
	classic	0.08	oz ai/a	C			
	harmony	0.25	oz ai/a	C			
	valor	1	oz/a	C			
	2,4-D LVE	1	pt/a	C			
	Roundup PowerMax	1	lb ae/a	C			
12	Synchrony	0.375	oz/a	C	82 a	99 a	100 a
	Harmony GT	0.02587	oz ai/a	C			
	Classic	0.08062	oz ai/a	C			
	2,4-D LVE	1	pt/a	C			
	Roundup PowerMax	1	lb ae/a	C			
13	Express	0.25	oz/a	C	76 ab	100 a	100 a
	2,4-D LVE	1	pt/a	C			
	Roundup PowerMax	1	lb ae/a	C			

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Rating Date Rating Type Rating Unit Pest Name					Jun-8-2011 CONTROL % Faber's foxtail	Jun-8-2011 CONTROL % Common lambsqu	Jun-8-2011 CONTROL % Shepherd's pur
Trt No.	Treatment Name	Rate	Unit	Appl Code	5	6	7
14	2,4-D LVE	1	pt/a	D			
	Roundup PowerMax	1	lb ae/a	D			
	AMS	8.5	lb/100 gal				
15	Enlite	2.8	oz/a	D	50 abc	100 a	100 a
	classic	0.08	oz ai/a	D			
	harmony	0.25	oz ai/a	D			
	valor	1	oz/a	D			
	2,4-D LVE	1	pt/a	D			
	Roundup PowerMax	1	lb ae/a	D			
	COC	1	% v/v				
	AMS	8.5	lb/100 gal				
16	Synchrony	0.375	oz/a	D			
	Harmony GT	0.02587	oz ai/a	D			
	Classic	0.08062	oz ai/a	D			
	2,4-D LVE	1	pt/a	D			
	Roundup PowerMax	1	lb ae/a	D			
	COC	1	% v/v				
	AMS	8.5	lb/100 gal				
17	Express	0.25	oz/a	D			
	2,4-D LVE	1	pt/a	D			
	Roundup PowerMax	1	lb ae/a	D			
	COC	1	% v/v				
	AMS	8.5	lb/100 gal				
LSD (P=.10)					32.7	19.2	0.0

Means followed by same letter do not significantly differ (P=.10, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Untreated treatment(s) 1 excluded from analysis.