

# North Carolina State University

## Catsear Dandelion Control

Trial ID: 02-T26                      Study Dir.: Jason Hinton  
Location: Quail Ridge G.C.        Investigator: Fred Yelverton

### GENERAL TRIAL INFORMATION

**Study Director:** Jason Hinton                      **Title:** Research Technician  
**Affiliation:** North Carolina State University  
**Postal Code:** 27695  
**Investigator:** Fred Yelverton                      **Title:** Professor  
**Affiliation:** North Carolina State University  
**Postal Code:** 27695

### TRIAL LOCATION

**City:** Sanford                      **Trial Status:** Complete  
**State/Prov.:** NC  
**Postal Code:** 27330                      **Initiation Date:** 05-24-02  
**Country:** USA

**Conducted Under GLP (Y/N):** N                      **Conducted Under GEP (Y/N):** N

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	HRYRA	Catsear Dandelion	Hypochoeris radicata L.

### SITE AND DESIGN

**Plot Width, Unit:** 5                      FT                      **Plot Length, Unit:** 10                      FT                      **Reps:** 4  
**Study Design:** RANDOMIZED COMPLETE BLOCK

### APPLICATION DESCRIPTION

	A
<b>Application Date:</b>	05-24-02
<b>Time of Day:</b>	2-2:30 PM
<b>Application Method:</b>	Spray
<b>Application Timing:</b>	Post
<b>Applic. Placement:</b>	Foliar
<b>Air Temp., Unit:</b>	85.1 F
<b>% Relative Humidity:</b>	26
<b>Wind Velocity, Unit:</b>	2.1 MPH
<b>Dew Presence (Y/N):</b>	N
<b>Water Hardness:</b>	N/A
<b>Soil Temp., Unit:</b>	66 F
<b>Soil Moisture:</b>	Poor
<b>% Cloud Cover:</b>	5

### WEED STAGE AT EACH APPLICATION

	A
<b>Weed 1 Code, Stage:</b>	HRYRA 6-15 leaf
<b>Stage Scale:</b>	2-6"Diam.
<b>Density, Unit:</b>	2 Ft <sup>2</sup>

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### APPLICATION EQUIPMENT

	<b>A</b>
<b>Appl. Equipment:</b>	CO2 Spray
<b>Operating Pressure:</b>	36 PSI
<b>Nozzle Type:</b>	Flat Fan
<b>Nozzle Size:</b>	8002 XR
<b>Nozzle Spacing, Unit:</b>	10 Inch
<b>Boom Height, Unit:</b>	10 Inch
<b>Ground Speed, Unit:</b>	3 MPH
<b>Carrier:</b>	Water
<b>Spray Volume, Unit:</b>	32.5 GPA
<b>Propellant:</b>	Compr.CO2

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Weed Code							HRYRA	HRYRA	HRYRA		
Rating Data Type							CONTROL	CONTROL	CONTROL		
Rating Unit							%	%	%		
Rating Date							05-31-02	06-11-02	06-25-02		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code			
1	RIV 01-02	L		1.1 OZ/1000 FT2			Post	A	2.5 abc	72.5 abc	97.5 a
2	RIV 03-02	L		1.1 OZ/1000 FT2			Post	A	1.3 bc	73.8 abc	98.8 a
3	RIV 04-02	L		0.73 OZ/1000 FT2			Post	A	0.0 c	73.8 abc	97.5 a
4	RIV 06-02	L		1.1 OZ/1000 FT2			Post	A	6.3 a	86.3 a	96.3 ab
5	RIV 07-02	L		0.9 OZ/1000 FT2			Post	A	2.5 abc	81.3 ab	96.3 ab
6	RIV 10-02	L		0.73 OZ/1000 FT2			Post	A	2.5 abc	63.8 b-e	90.0 abc
7	RIV 11-02	L		0.73 OZ/1000 FT2			Post	A	1.3 bc	76.3 abc	95.0 ab
8	RIV 12-02	L		0.73 OZ/1000 FT2			Post	A	0.0 c	52.5 de	93.8 abc
9	RIV 13-02	L		0.73 OZ/1000 FT2			Post	A	2.5 abc	58.8 cde	98.8 a
10	RIV 18-02	L		0.73 OZ/1000 FT2			Post	A	0.0 c	46.3 e	85.0 bc
11	RIV 18-02	L		1.1 OZ/1000 FT2			Post	A	1.3 bc	58.8 cde	95.0 ab
12	RIV 19-02	L		0.73 OZ/1000 FT2			Post	A	2.5 abc	48.8 de	82.5 c
13	RIV 19-02	L		1.1 OZ/1000 FT2			Post	A	1.3 bc	76.3 abc	97.5 a
14	RIV 20-02	L		0.9 OZ/1000 FT2			Post	A	2.5 abc	82.5 ab	100.0 a
15	Confront	3 L		2.0 PT/A			Post	A	2.5 abc	67.5 a-d	93.8 abc
16	Millenium Ultra	3.75 L		2.5 PT/A			Post	A	5.0 ab	78.8 ab	97.5 a
17	Trimec Classic	3.32 L		3.5 PT/A			Post	A	1.3 bc	65.0 b-e	97.5 a
18	Horse Power	4.5 L		2.5 PT/A			Post	A	0.0 c	58.8 cde	90.0 abc
19	Nontreated								0.0 c	0.0 f	0.0 d
LSD (P=.05)							4.14	19.14	11.40		
Standard Deviation							2.93	13.53	8.06		
CV							159.1	21.05	8.99		
Bartlett's X2							6.779	18.931	46.497		
P(Bartlett's X2)							0.913	0.333	0.001*		



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Weed Code							HRYRA	HRYRA
Rating Data Type							CONTROL	CONTROL
Rating Unit							%	%
Rating Date							07-08-02	08-20-02
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Product Rate	Product Unit	Grow Stg	Appl Code
1	RIV 01-02	L		1.1 OZ/1000 FT2			Post	A
2	RIV 03-02	L		1.1 OZ/1000 FT2			Post	A
3	RIV 04-02	L		0.73 OZ/1000 FT2			Post	A
4	RIV 06-02	L		1.1 OZ/1000 FT2			Post	A
5	RIV 07-02	L		0.9 OZ/1000 FT2			Post	A
6	RIV 10-02	L		0.73 OZ/1000 FT2			Post	A
7	RIV 11-02	L		0.73 OZ/1000 FT2			Post	A
8	RIV 12-02	L		0.73 OZ/1000 FT2			Post	A
9	RIV 13-02	L		0.73 OZ/1000 FT2			Post	A
10	RIV 18-02	L		0.73 OZ/1000 FT2			Post	A
11	RIV 18-02	L		1.1 OZ/1000 FT2			Post	A
12	RIV 19-02	L		0.73 OZ/1000 FT2			Post	A
13	RIV 19-02	L		1.1 OZ/1000 FT2			Post	A
14	RIV 20-02	L		0.9 OZ/1000 FT2			Post	A
15	Confront	3 L		2.0 PT/A			Post	A
16	Millenium Ultra	3.75 L		2.5 PT/A			Post	A
17	Trimec Classic	3.32 L		3.5 PT/A			Post	A
18	Horse Power	4.5 L		2.5 PT/A			Post	A
19	Nontreated							
LSD (P=.05)							5.32	3.85
Standard Deviation							3.76	2.72
CV							4.01	2.9
Bartlett's X2							5.847	10.309
P(Bartlett's X2)							0.44	0.326

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Weed Code	HRYRA CONTROL	HRYRA CONTROL
Rating Data Type		
Rating Unit	%	%
Rating Date	07-08-02	08-20-02
Replicate F	0.558	2.531
Replicate Prob(F)	0.6449	0.0667
Treatment F	146.230	279.000
Treatment Prob(F)	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

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Trial Comments