

FIELD RESEARCH REPORT

2005

NEW MEXICO STATE UNIVERSITY
Department of Entomology, Plant Pathology and Weed Science
&
Department of Extension Plant Sciences



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INTRODUCTION

The Annual Report is a summary of field crop research conducted by Dr. Jill Schroeder, Dr. Mark Renz, Justin Norsworthy, and Cheryl Fiore to study the efficacy of traditional herbicides with new chemicals or combination of chemicals used to control weeds in the region. The results are provided to assist extension personnel, cooperators and others who have an interest in choosing the most economical and effective weed control for this area. *It does not contain recommendations for the use of these herbicides or imply that these herbicides are registered for use on commercial crops.*

The information in this report is not a formal release, and it is not to be duplicated or published in any form without the written consent of Drs. Jill Schroeder or Mark Renz, Study Directors.

Disk copies of the information in this report are available upon request. Please direct any questions about this report to Drs. Jill Schroeder at (505)-646-2328 or Mark Renz at (505) 646-2888.

ACKNOWLEDGMENTS

As always, we appreciated the cooperation and assistance of the personnel at the Leyendecker Plant Science Research Center (PSRC). We owe a special thanks to Gary Lawrence, Farm Manager for his expertise and assistance in crop production. The crew working at PSRC provides the labor and machinery for field preparation, planting and irrigation. Without their assistance, we would not be able to complete our research. We also appreciate the cooperation with Dr. Phil Banks, Ed Morris and Johnny Krynitz at MARATHON Agricultural and Environmental, Consulting, which enabled us to conduct research at Rincon, NM. We also appreciate the assistance of extension personnel throughout the state. We could not conduct these trials without their assistance. We would like to specifically like to thank:

Chris Alison
Rick Bottoms
Sammy Burkham
Gary Hathorn
Woods Houghton
Phil Wright

PROJECT PERSONNEL

Weed Science Field Station

Leyendecker Plant Science Research Center
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Dr. Jill Schroeder, Study Director
(505) 646-2328

Dr. Mark Renz, Study Director
(505) 646-2888

Research Assistants:

Cheryl Fiore
Brian Greenfield
Justin Norsworthy
Sara Schuster

Undergraduate Assistants:

Felix Barron Santos Barron
Alison Garcia Lora Harris
Georgina Jacquez

COOPERATORS

Leyendecker Plant Science Research Center

MSC 3LEY, Las Cruces, NM 88005
(505)-646-2281

Dr. Rick Bottoms, Farm Superintendent

Gary Lawrence, Farm Manager
Crisoforo Barraza
Maurillio M. Castorena
Roberto E. Garcia
Ralph Trevino

Theresa Martinez, Records Tech
Jose M. Castorena
Felipe C. Flores
Orlando Morales
Liberato Valdes

TRIAL CHEMICALS

Trade Name	Common Name	Active Ingredient (%)
Authority	sulfentrazone	sulfentrazone (75)
AF 300	AF 300	NA
Arsenal / Habitat	imazapyr	Isopropylamine salt of imazapyr (28.7)
Buctril	bromoxynil	Octanoic acid ester of bromoxynil (33.4)
Chateau	flumioxazin	flumioxazin (51)
Durango	glyphosate	glyphosate isopropylamine salt (53.6)
Envoke	trifloxysulfuron	trifloxysulfuron-sodium (75)
Glyphomax Plus	glyphosate	glyphosate isopropylamine salt (41.0)
Goal 2XL	oxyfluorfen	oxyfluorfen (23)
Goaltender	oxyfluorfen	oxyfluorfen (41)
Grazon P+ D	picloram + 2,4-D	picloram (10.2) + 2,4-dichlorophenoxyacetic acid (39.6)
Karmex DF	diuron	diuron (80)
Matrix	rimsulfuron	rimsulfuron (25)
NUP 1A 05	NUP 1A 05	NA
NUP 2F 02	NUP 2F 02	NA
NUP 1B 05	NUP 1B 05	NA
NUP 1E 05	NUP 1E 05	NA
NUP 12C 04	NUP 12C 04	NA
NUP 12J 04	NUP 12J 04	NA
NUP 12K 04	NUP 12K 04	NA
Prowl 3.3	pendimethalin	pendimethalin (37.4)
Prowl H2O	pendimethalin	pendimethalin (38.7)
Pursuit	Imazethapyr	imazethapyr (70)
Raptor	Imazamox	Ammonium salt of imazamox (12.1)
Reclaim / Transline	clopyralid	clopyralid (40.9)
RoundUp Weathermax	glyphosate	glyphosate in form of potassium salt (48.8)
Sandea 75 DF	halosulfuron	halosulfuron-methyl (75)
Sequence	glyphosate + S-metolachlor	glyphosate (21.8) + S-metolachlor (29.0)
Staple	pyrithiobac	pyrithiobac sodium (85)
Suprend	prometryn + trifloxysulfuron	prometryn (79.30) + trifloxysulfuron-sodium (0.70)
Telar	chlorsulfuron	chlorsulfuron (75)
Treflan	trifluralin	trifluralin (43)
Tordon 22K	picloram	picloram (24.4)
Touchdown Hitech	glyphosate	glyphosate monopotassium salt (52.3)
V-10142	imazosulfuron	imazosulfuron (75)

Adjuvants

Agridex	Crop oil concentrate
Latron AG-98	No foam non-ionic spray
Kinetic	Silicone based non-ionic spray
MSO	Methylated Seed Oil

TREATMENT APPLICATION CODE DEFINITIONS

Code	Application Placement/Timing
1 LEAF	POST when onions are at the 1 leaf stage
1 ST CUTTING	POST after 1 st cutting of alfalfa
2 LEAF	POST when onions are at the 2 leaf stage
4-6 LEAF	POST when chile is at 4-6 leaf stage
AC	PRE emergence after dragging cap
BC	PRE emergence before dragging cap
COT	POST when chile is at cotyledon stage
LAYBY	POST directed application prior to canopy closure
PRE	PRE emergence
POST	POST-emergence over the top directed
SEMIDORMANT	POST when alfalfa is in dormancy (spring)

LAS CRUCES TRIAL INFORMATION
Plant Science Research Center

2004 LAS CRUCES RAINFALL DATA
Plant Science Research Center Weather Station

Elevation 3832 Feet
Latitude: 32° 12' 4.44" N Longitude: 106° 44' 32.88" W

Rainfall in inches

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
1	0	0	0	0	0	0	0	0	0.23	0	0
2	0.01	0	0	0	0	0	0	0	0.01	0.01	0
3	0.07	0	0	0	0	0	0	0	0	0.21	0
4	0.06	0.06	0	0	0	0	0	0.06	0	0.05	0
5	0	0.09	0.05	0	0	0	0	0	0.01	0	0
6	0	0.05	0.27	0	0	0	0	0	0.47	0	0
7	0	0	0	0	0	0	0	0.16	0.15	0	0
8	0	0	0	0	0	0	0	0	0	0.15	0
9	0	0	0	0	0	0	0	0	0	0.04	0
10	0	0.01	0.02	0	0	0	0	0	0	0.02	0
11	0	0.02	0	0	0	0	0	0.01	0	0.01	0
12	0	0.12	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0.01	0
14	0	0	0	0	0	0	0	0.25	0	0	0
15	0	0	0	0	0.05	0	0	0.01	0	0.17	0
16	0	0	0	0	0	0	0.24	0	0	0	0
17	0	0	0	0.01	0	0	0	0.11	0	0.01	0
18	0	0	0	0	0	0	0	0.04	0	0	0
19	0	0	0	0	0	0	0	0.11	0	0	0
20	0	0	0	0	0	0.02	0	0	0	0	0
21	0.01	0	0	0	0	0	0	0.01	0	0	0
22	0	0.13	0	0	0	0	0	0	0	0	0
23	0	0.04	0	0	0	0	0	0.03	0	0	0
24	0	0.19	0	0.13	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0.01	0	0	0	0
26	0.07	0.02	0	0	0.18	0	0.19	0	0	0	0
27	0.05	0.02	0	0	0.19	0	0.01	0	0	0	0
28	0	0	0	0	0.01	0	0	0.19	0	0.06	0
29	0		0	0	0	0	0	0	0	0	0
30	0		0	0	0	0	0	0	0	0	0
31	0		0		0		0	0		0	
Total	0.27	0.75	0.34	0.14	0.43	0.02	0.45	0.98	0.87	0.74	0

CROP DESCRIPTION

Crop: CPSAA *Capsicum annuum* Chile
Variety: Joe E. Parker
Planting Method: Direct seeded
Depth, Unit: 1 inch
Row Spacing, Unit: 40 inch
Soil Moisture: Good
Emergence Date: 05/23/2005

BBCH Scale: BPER
Planting Date: 05/05/2005
Rate, Unit: 4 lb/A
Perennial Age, Unit: N/A
Soil Temperature, Unit: 78 F

SITE AND DESIGN

Plot Width, Unit: 6.667 ft
Replications: 4

Site Type: Field
Study Design: Randomized Complete Block

Previous Crops

1. Forage Sorghum

Previous Pesticides

None

Year

2004

MAINTENANCE

No.	Date	Maintenance Treatment Name	Form Conc	Form Type	Rate	Rate Unit
1.	04/15/2005	Fertilized	11-52-00		500	lbs./A
2.	04/19/2005	Rows Listed				
3.	04/19/2005	Irrigated				
4.	05/05/2005	Chile Planted			4	lbs./A
5.	05/13/2005	Spray GhyphomaxPlus			2	% V/V
6.	05/17/2005	Irrigated				
7.	05/24/2005	Quadris + Actara			10 + 3	oz /A
8.	05/24/2005	Irrigated				
9.	06/01/2005	Application A				
10.	06/10/2005	Irrigated				
11.	06/16/2005	Hand weeded Timed				
12.	06/16/2005	Cultivated				
13.	06/16/2005	Irrigated				
14.	06/23/2005	Irrigated + Uran				
15.	06/29/2005	Application B				
16.	06/30/2005	Irrigated				
17.	07/08/2005	Irrigated				
18.	07/12/2005	Hand weeded Timed				
19.	07/15/2005	Irrigated				
20.	07/22/2005	Hand weeded Timed				
21.	07/22/2005	Irrigated				
22.	07/29/2005	Irrigated				
23.	08/04/2005	Plant Count				
24.	08/23/2005	Hand weeded Timed				
25.	08/30/2005	Irrigated				
26.	09/16/2005	Irrigated				
27.	09/29/2005	Disked Under				

Soil Description

%Sand: 44 **%OM:** 2.1 **Texture:** Clay loam
% Silt: 19 **pH:** 8.1 **Soil Name:** Belen Clay
% Clay: 37 **CEC:** 46.1 meq/100g

MOISTURE CONDITIONS

Closest Weather Station: Leyendecker Plant Sciences Headquarters **Distance:** 0.5 **Unit:** MI
Overall Moisture Conditions: Good throughout the year

APPLICATION DESCRIPTION	A	B
Application Date:	6/01/2005	6/29/2005
Time of Day:	Morning	Morning
Application Method:	Spray	Spray
Application Timing:	Cot	4-6 Leaf
Application Placement:	Overtop	Overtop
Applied By:	Justin	Justin
Air Temperature, Unit:	97 F	84 F
% Relative Humidity:	30	56
Wind Velocity, MPH:	0	0
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	75 F	79 F
Soil Moisture:	Dry	Good
% Cloud Cover:	0	10

CROP STAGE APPLICATION	A	B
Leaves Minimum, Maximum Unit:	Cot Leaves	2-10 Leaves Leaves

APPLICATION EQUIPMENT	A	B
Appl. Equipment:	Backpack	Backpack
Operating Pressure:	19	20
Pressure Unit:	PSI	PSI
Nozzle Type:	Teejet	Teejet
Nozzle Size:	11002	11002
Nozzle Spacing, Unit:	20 Inch	20 Inch
Nozzle/Row:	2	2
Band Width, Unit:	20 Inch	20 Inch
Boom Height, Unit:	18 Inch	18 Inch
Ground Speed, Unit:	2 MPH	2 MPH
Incorporation Equip.:	N/A	N/A
Hours to Incorp.:	N/A	N/A
Carrier:	Water	Water
Spray Volume:	20	20
Volume Unit:	Gal/Ac	Gal/Ac
Propellant:	CO2	CO2

THINNING COMMENTS

Plants were not thinned manually because the chile stand was poor.

APPLICATION COMMENTS

Treatments 14 through 17 were hand weeded prior to application B on 06/29/2005.

RATING COMMENTS

Each plot was blindly rated on a percent basis 0-100, where 0 was no injury or damage to the chile plant and 100 was complete necrosis or death. Weed control was rated using the same scale, where 0 was no weed control and 100 was weed free.

HARVEST COMMENTS

Chile peppers were not harvested because the chile stand was poor.

Plant Name					Chile	Palmar amaranth	Chile	Chile Stand		
Rating Date					8/Jun/2005	8/Jun/2005	15/Jun/2005	15/Jun/2005		
Rating Data Type					Injury	Control	Timed Hoe	Reduction		
Rating Unit					%	%	Seconds	%		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Appl Unit	Code	1	2	3	4
1	Weedy Control						26 a	51 c		29 a
2	Hand-Weeded Control						19 a	70 b	323 a-e	35 a
3	Pendimethalin	3.3	EC	0.75	lb ai/a	A	11 a	85 ab	160 f	35 a
4	Pendimethalin	3.3	EC	1.0	lb ai/a	A	20 a	86 ab	140 f	33 a
5	Pendimethalin	3.8	CS	0.75	lb ai/a	A	14 a	76 b	209 b-f	24 a
6	Pendimethalin	3.8	CS	1.0	lb ai/a	A	14 a	81 ab	189 c-f	26 a
7	CGA 362622 NIS	75	DF	0.0046 0.25	lb ai/a % v/v	A	28 a	98 a	90 f	38 a
8	CGA 362622 NIS	75	DF	0.0094 0.25	lb ai/a % v/v	A	26 a	98 a	114 f	29 a
9	V10142 NIS	75	DF	0.05 0.25	lb ai/a % v/v	A	10 a	95 a	159 f	24 a
10	V10142 NIS	75	DF	0.1 0.25	lb ai/a % v/v	A	16 a	94 a	172 ef	36 a
11	V10142 NIS	75	DF	0.2 0.25	lb ai/a % v/v	A	25 a	96 a	179 def	23 a
12	Pyriithiobac COC	85	WP	0.033 1	lb ai/a % v/v	A	26 a	98 a	100 f	30 a
13	Pyriithiobac COC	85	WP	0.042 1	lb ai/a % v/v	A	18 a	98 a	105 f	36 a
14	Pendimethalin	3.3	EC	0.75	lb ai/a	B			352 ab	
15	Pendimethalin	3.3	EC	1.0	lb ai/a	B			406 a	
16	Pendimethalin	3.8	CS	0.75	lb ai/a	B			417 a	
17	Pendimethalin	3.8	CS	1.0	lb ai/a	B			348 ab	
18	CGA 362622 NIS	75	DF	0.0046 0.25	lb ai/a % v/v	B			323 a-e	
19	CGA 362622 NIS	75	DF	0.0094 0.25	lb ai/a % v/v	B			378 a	
20	V10142 NIS	75	DF	0.05 0.25	lb ai/a % v/v	B			339 abc	
21	V10142 NIS	75	DF	0.1 0.25	lb ai/a % v/v	B			316 a-e	
22	V10142 NIS	75	DF	0.2 0.25	lb ai/a % v/v	B			427 a	
23	Pyriithiobac COC	85	WP	0.033 1	lb ai/a % v/v	B			416 a	
24	Pyriithiobac COC	85	WP	0.042 1	lb ai/a % v/v	B			331 a-d	
LSD (P=.05)							18.5	11.7	100.6	19.2
Standard Deviation							13.0	8.2	71.1	13.4
CV							66.95	9.42	28.51	44.05
Grand Mean							19.37	86.54	249.52	30.48
Bartlett's X2							28.583	29.811	41.709	12.676
P(Bartlett's X2)							0.005*	0.002*	0.007*	0.393
Replicate F							1.969	0.598	19.121	12.051
Replicate Prob(F)							0.1361	0.6206	0.0001	0.0001
Treatment F							0.959	11.801	12.799	0.627
Treatment Prob(F)							0.5036	0.0001	0.0001	0.8050

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.

Plant Name						Chile	Palmer amaranth	Chile Stand	Chile
Rating Date						15/Jun/2005	15/Jun/2005	22/Jun/2005	22/Jun/2005
Rating Data Type						Injury	Control	Reduction	Injury
Rating Unit						%	%	%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Appl Unit Code	5	6	7	8
1	Weedy Control					3 d	0 c	41 a	6 ab
2	Hand-Weeded Control					4 cd	8 c	30 a	4 ab
3	Pendimethalin	3.3	EC	0.75	lb ai/a A	9 abc	64 ab	33 a	7 ab
4	Pendimethalin	3.3	EC	1.0	lb ai/a A	7 a-d	70 ab	25 a	6 ab
5	Pendimethalin	3.8	CS	0.75	lb ai/a A	6 cd	36 b	19 a	5 ab
6	Pendimethalin	3.8	CS	1.0	lb ai/a A	7 a-d	60 ab	31 a	3 b
7	CGA 362622 NIS	75	DF	0.0046 0.25	lb ai/a A % v/v A	11 ab	98 a	54 a	11 a
8	CGA 362622 NIS	75	DF	0.0094 0.25	lb ai/a A % v/v A	11 ab	95 a	51 a	11 a
9	V10142 NIS	75	DF	0.05 0.25	lb ai/a A % v/v A	6 cd	91 a	14 a	1 b
10	V10142 NIS	75	DF	0.1 0.25	lb ai/a A % v/v A	7 bcd	80 a	34 a	4 ab
11	V10142 NIS	75	DF	0.2 0.25	lb ai/a A % v/v A	7 a-d	89 a	15 a	3 b
12	Pyriithiobac COC	85	WP	0.033 1	lb ai/a A % v/v A	12 a	94 a	35 a	8 ab
13	Pyriithiobac COC	85	WP	0.042 1	lb ai/a A % v/v A	11 ab	97 a	41 a	8 ab
14	Pendimethalin	3.3	EC	0.75	lb ai/a B				
15	Pendimethalin	3.3	EC	1.0	lb ai/a B				
16	Pendimethalin	3.8	CS	0.75	lb ai/a B				
17	Pendimethalin	3.8	CS	1.0	lb ai/a B				
18	CGA 362622 NIS	75	DF	0.0046 0.25	lb ai/a B % v/v B				
19	CGA 362622 NIS	75	DF	0.0094 0.25	lb ai/a B % v/v B				
20	V10142 NIS	75	DF	0.05 0.25	lb ai/a B % v/v B				
21	V10142 NIS	75	DF	0.1 0.25	lb ai/a B % v/v B				
22	V10142 NIS	75	DF	0.2 0.25	lb ai/a B % v/v B				
23	Pyriithiobac COC	85	WP	0.033 1	lb ai/a B % v/v B				
24	Pyriithiobac COC	85	WP	0.042 1	lb ai/a B % v/v B				
LSD (P=.05)						3.0	25.6	26.9	5.1
Standard Deviation						2.1	17.9	18.8	3.5
CV						27.85	26.43	57.91	60.55
Grand Mean						7.62	67.75	32.5	5.85
Bartlett's X2						13.453	50.419	13.263	8.921
P(Bartlett's X2)						0.337	0.001*	0.35	0.71
Replicate F						2.337	0.967	2.419	1.355
Replicate Prob(F)						0.0900	0.4191	0.0821	0.2721
Treatment F						7.091	14.144	1.764	3.171
Treatment Prob(F)						0.0001	0.0001	0.0933	0.0036

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.

Plant Name						Palmer amaranth	Chile	Palmar amaranth	Chile
Rating Date						22/Jun/2005	29/Jun/2005	29/Jun/2005	6/Jul/2005
Rating Data Type						Control	Injury	Control	Injury
Rating Unit						%	%	%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Appl Unit Code	9	10	11	12
1	Weedy Control					23 b	4 bc	23 c	10 c
2	Hand-Weeded Control					97 a	3 c	86 ab	8 c
3	Pendimethalin	3.3	EC	0.75	lb ai/a A	73 a	1 c	97 a	6 c
4	Pendimethalin	3.3	EC	1.0	lb ai/a A	100 a	5 bc	95 a	6 c
5	Pendimethalin	3.8	CS	0.75	lb ai/a A	97 a	3 c	93 ab	4 c
6	Pendimethalin	3.8	CS	1.0	lb ai/a A	100 a	4 bc	96 a	6 c
7	CGA 362622 NIS	75	DF	0.0046 0.25	lb ai/a A % v/v A	99 a	11 ab	91 ab	19 c
8	CGA 362622 NIS	75	DF	0.0094 0.25	lb ai/a A % v/v A	97 a	14 a	89 ab	3 c
9	V10142 NIS	75	DF	0.05 0.25	lb ai/a A % v/v A	100 a	0 c	98 a	6 c
10	V10142 NIS	75	DF	0.1 0.25	lb ai/a A % v/v A	98 a	3 c	91 ab	4 c
11	V10142 NIS	75	DF	0.2 0.25	lb ai/a A % v/v A	100 a	1 c	99 a	4 c
12	Pyriithiobac COC	85	WP	0.033 1	lb ai/a A % v/v A	94 a	5 bc	71 ab	6 c
13	Pyriithiobac COC	85	WP	0.042 1	lb ai/a A % v/v A	95 a	9 abc	84 ab	4 c
14	Pendimethalin	3.3	EC	0.75	lb ai/a B		4 bc	99 a	11 c
15	Pendimethalin	3.3	EC	1.0	lb ai/a B		0 c	99 a	13 c
16	Pendimethalin	3.8	CS	0.75	lb ai/a B		0 c	100 a	6 c
17	Pendimethalin	3.8	CS	1.0	lb ai/a B		0 c	99 a	4 c
18	CGA 362622 NIS	75	DF	0.0046 0.25	lb ai/a B % v/v B		1 c	73 ab	63 a
19	CGA 362622 NIS	75	DF	0.0094 0.25	lb ai/a B % v/v B		4 bc	54 b	40 b
20	V10142 NIS	75	DF	0.05 0.25	lb ai/a B % v/v B		3 c	69 ab	13 c
21	V10142 NIS	75	DF	0.1 0.25	lb ai/a B % v/v B		4 bc	76 ab	19 c
22	V10142 NIS	75	DF	0.2 0.25	lb ai/a B % v/v B		1 c	70 ab	16 c
23	Pyriithiobac COC	85	WP	0.033 1	lb ai/a B % v/v B		5 bc	78 ab	40 b
24	Pyriithiobac COC	85	WP	0.042 1	lb ai/a B % v/v B		1 c	92 ab	36 b
LSD (P=.05)						26.1	4.7	22.7	13.2
Standard Deviation						18.3	3.4	16.1	9.3
CV						20.31	96.12	19.1	65.03
Grand Mean						90.06	3.49	84.14	14.38
Bartlett's X2						103.383	14.252	132.931	80.246
P(Bartlett's X2)						0.001*	0.769	0.001*	0.001*
Replicate F						1.645	3.480	1.476	2.464
Replicate Prob(F)						0.1962	0.0204	0.2286	0.0696
Treatment F						5.518	4.298	5.060	10.617
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.

Plant Name						Palmar amaranth	Wright groucherr	Chile
Rating Date						6/Jul/2005	6/Jul/2005	12/Jul/2005
Rating Data Type						Control	Control	Injury
Rating Unit						%	%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Appl Unit Code	13	14	15
1	Weedy Control					25 b	25 b	0 d
2	Hand-Weeded Control					74 a	90 a	3 d
3	Pendimethalin	3.3	EC	0.75 lb ai/a	A	95 a	90 a	4 d
4	Pendimethalin	3.3	EC	1.0 lb ai/a	A	90 a	84 a	3 d
5	Pendimethalin	3.8	CS	0.75 lb ai/a	A	93 a	79 a	1 d
6	Pendimethalin	3.8	CS	1.0 lb ai/a	A	95 a	83 a	1 d
7	CGA 362622 NIS	75	DF	0.0046 lb ai/a 0.25 % v/v	A A	85 a	83 a	11 d
8	CGA 362622 NIS	75	DF	0.0094 lb ai/a 0.25 % v/v	A A	74 a	77 a	1 d
9	V10142 NIS	75	DF	0.05 lb ai/a 0.25 % v/v	A A	99 a	64 a	9 d
10	V10142 NIS	75	DF	0.1 lb ai/a 0.25 % v/v	A A	94 a	77 a	3 d
11	V10142 NIS	75	DF	0.2 lb ai/a 0.25 % v/v	A A	98 a	81 a	1 d
12	Pyriithiobac COC	85	WP	0.033 lb ai/a 1 % v/v	A A	79 a	88 a	1 d
13	Pyriithiobac COC	85	WP	0.042 lb ai/a 1 % v/v	A A	74 a	84 a	0 d
14	Pendimethalin	3.3	EC	0.75 lb ai/a	B	99 a	97 a	6 d
15	Pendimethalin	3.3	EC	1.0 lb ai/a	B	97 a	100 a	11 d
16	Pendimethalin	3.8	CS	0.75 lb ai/a	B	99 a	100 a	6 d
17	Pendimethalin	3.8	CS	1.0 lb ai/a	B	97 a	97 a	1 d
18	CGA 362622 NIS	75	DF	0.0046 lb ai/a 0.25 % v/v	B B	99 a	100 a	78 a
19	CGA 362622 NIS	75	DF	0.0094 lb ai/a 0.25 % v/v	B B	73 a	74 a	63 b
20	V10142 NIS	75	DF	0.05 lb ai/a 0.25 % v/v	B B	93 a	85 a	14 d
21	V10142 NIS	75	DF	0.1 lb ai/a 0.25 % v/v	B B	96 a	93 a	10 d
22	V10142 NIS	75	DF	0.2 lb ai/a 0.25 % v/v	B B	97 a	91 a	13 d
23	Pyriithiobac COC	85	WP	0.033 lb ai/a 1 % v/v	B B	97 a	97 a	46 c
24	Pyriithiobac COC	85	WP	0.042 lb ai/a 1 % v/v	B B	96 a	97 a	38 c
LSD (P=.05)						22.5	25.8	12.6
Standard Deviation						15.9	18.3	8.9
CV						18.11	21.61	66.39
Grand Mean						88.05	84.57	13.46
Bartlett's X2						155.67	120.944	58.588
P(Bartlett's X2)						0.001*	0.001*	0.001*
Replicate F						0.420	2.593	1.614
Replicate Prob(F)						0.7390	0.0596	0.1940
Treatment F						4.161	2.991	21.805
Treatment Prob(F)						0.0001	0.0002	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.

Plant Name						Palmar amaranth	Wright groundcherry	Chile	
Rating Date						12/Jul/2005	12/Jul/2005	12/Jul/2005	
Rating Data Type						Control	Control	Timed Hoe	
Rating Unit						%	%	Seconds	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Appl Unit	Code	16	17	18
1	Weedy Control						0 g	0 e	-
2	Hand-Weeded Control						61 def	56 d	307 a
3	Pendimethalin	3.3	EC	0.75	lb ai/a	A	92 ab	69 bcd	163 a-c
4	Pendimethalin	3.3	EC	1.0	lb ai/a	A	79 a-e	68 bcd	131 a-
5	Pendimethalin	3.8	CS	0.75	lb ai/a	A	86 abc	63 cd	203 abc
6	Pendimethalin	3.8	CS	1.0	lb ai/a	A	80 a-e	63 cd	220 abc
7	CGA 362622 NIS	75	DF	0.0046 0.25	lb ai/a % v/v	A A	76 a-f	70 a-d	196 a-c
8	CGA 362622 NIS	75	DF	0.0094 0.25	lb ai/a % v/v	A A	65 c-f	58 d	307 a
9	V10142 NIS	75	DF	0.05 0.25	lb ai/a % v/v	A A	94 ab	53 d	161 a-c
10	V10142 NIS	75	DF	0.1 0.25	lb ai/a % v/v	A A	83 a-d	64 cd	172 a-c
11	V10142 NIS	75	DF	0.2 0.25	lb ai/a % v/v	A A	99 a	66 bcd	159 a-c
12	Pyriithiobac COC	85	WP	0.033 1	lb ai/a % v/v	A A	55 f	78 a-d	318 a
13	Pyriithiobac COC	85	WP	0.042 1	lb ai/a % v/v	A A	59 ef	71 a-d	268 ab
14	Pendimethalin	3.3	EC	0.75	lb ai/a	B	96 a	98 a	80 bc
15	Pendimethalin	3.3	EC	1.0	lb ai/a	B	92 ab	99 a	73 bc
16	Pendimethalin	3.8	CS	0.75	lb ai/a	B	88 abc	100 a	85 bc
17	Pendimethalin	3.8	CS	1.0	lb ai/a	B	87 abc	95 ab	105 bc
18	CGA 362622 NIS	75	DF	0.0046 0.25	lb ai/a % v/v	B B	97 a	100 a	65 c
19	CGA 362622 NIS	75	DF	0.0094 0.25	lb ai/a % v/v	B B	95 ab	91 abc	84 bc
20	V10142 NIS	75	DF	0.05 0.25	lb ai/a % v/v	B B	69 b-f	78 a-d	190 a-c
21	V10142 NIS	75	DF	0.1 0.25	lb ai/a % v/v	B B	92 ab	71 a-d	144 a-c
22	V10142 NIS	75	DF	0.2 0.25	lb ai/a % v/v	B B	85 abc	64 cd	185 a-c
23	Pyriithiobac COC	85	WP	0.033 1	lb ai/a % v/v	B B	81 a-e	89 abc	168 a-c
24	Pyriithiobac COC	85	WP	0.042 1	lb ai/a % v/v	B B	92 ab	91 abc	90 bc
LSD (P=.05)							14.6	17.3	108.0
Standard Deviation							10.3	12.2	76.3
CV							13.02	16.76	47.34
Grand Mean							79.26	72.94	161.25
Bartlett's X2							42.098	63.686	52.946
P(Bartlett's X2)							0.006*	0.001*	0.001*
Replicate F							0.023	1.117	16.280
Replicate Prob(F)							0.9953	0.3482	0.0001
Treatment F							16.754	12.674	4.696
Treatment Prob(F)							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.

Plant Name						Chile	Chile	Chile	Chile
Rating Date						22/Jul/2005	22/Jul/2005	25/Jul/2005	4/Aug/2005
Rating Data Type						Injury	Timed Hoe	Injury	Chile Count
Rating Unit						%	Seconds	%	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Appl Unit Code	19	20	21	22
1	Weedy Control					0 c	-	0 c	0 f
2	Hand-Weeded Control					3 c	67 ab	3 c	19 a-e
3	Pendimethalin	3.3	EC	0.75	lb ai/a A	1 c	46 ab	1 c	17 b-e
4	Pendimethalin	3.3	EC	1.0	lb ai/a A	3 c	44 ab	5 c	14 de
5	Pendimethalin	3.8	CS	0.75	lb ai/a A	1 c	63 ab	1 c	22 a-e
6	Pendimethalin	3.8	CS	1.0	lb ai/a A	0 c	49 ab	0 c	12 e
7	CGA 362622 NIS	75	DF	0.0046 0.25	lb ai/a A % v/v A	6 c	69 ab	6 c	16 cde
8	CGA 362622 NIS	75	DF	0.0094 0.25	lb ai/a A % v/v A	10 c	64 ab	10 c	15 de
9	V10142 NIS	75	DF	0.05 0.25	lb ai/a A % v/v A	1 c	62 ab	1 c	30 a-d
10	V10142 NIS	75	DF	0.1 0.25	lb ai/a A % v/v A	3 c	65 ab	3 c	22 a-e
11	V10142 NIS	75	DF	0.2 0.25	lb ai/a A % v/v A	4 c	74 a	4 c	31 abc
12	Pyriithiobac COC	85	WP	0.033 1	lb ai/a A % v/v A	1 c	68 ab	1 c	19 a-e
13	Pyriithiobac COC	85	WP	0.042 1	lb ai/a A % v/v A	4 c	68 ab	4 c	17 b-e
14	Pendimethalin	3.3	EC	0.75	lb ai/a B	1 c	34 b	1 c	21 a-e
15	Pendimethalin	3.3	EC	1.0	lb ai/a B	4 c	37 ab	4 c	24 a-e
16	Pendimethalin	3.8	CS	0.75	lb ai/a B	3 c	48 ab	3 c	25 a-e
17	Pendimethalin	3.8	CS	1.0	lb ai/a B	0 c	41 ab	0 c	32 ab
18	CGA 362622 NIS	75	DF	0.0046 0.25	lb ai/a B % v/v B	81 a	42 ab	81 a	19 b-e
19	CGA 362622 NIS	75	DF	0.0094 0.25	lb ai/a B % v/v B	61 b	39 ab	61 b	20 a-e
20	V10142 NIS	75	DF	0.05 0.25	lb ai/a B % v/v B	5 c	60 ab	5 c	26 a-e
21	V10142 NIS	75	DF	0.1 0.25	lb ai/a B % v/v B	11 c	59 ab	11 c	29 a-d
22	V10142 NIS	75	DF	0.2 0.25	lb ai/a B % v/v B	10 c	48 ab	10 c	21 a-e
23	Pyriithiobac COC	85	WP	0.033 1	lb ai/a B % v/v B	8 c	55 ab	5 c	35 a
24	Pyriithiobac COC	85	WP	0.042 1	lb ai/a B % v/v B	6 c	46 ab	6 c	24 a-e
LSD (P=.05)						8.0	21.7	8.1	8.9
Standard Deviation						5.7	15.3	5.7	6.3
CV						59.97	29.61	60.65	29.7
Grand Mean						9.43	51.83	9.43	21.16
Bartlett's X2						38.669	53.512	36.078	27.155
P(Bartlett's X2)						0.007*	0.001*	0.015*	0.205
Replicate F						1.703	5.091	1.665	2.042
Replicate Prob(F)						0.1745	0.0031	0.1826	0.1160
Treatment F						47.779	4.399	46.653	5.716
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.

Plant Name						Chile	Palmer amaranth	Wright groundcherry	
Rating Date						5/Aug/2005	5/Aug/2005	5/Aug/2005	
Rating Data Type						Injury	Control	Control	
Rating Unit						%	%	%	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	23	24	25
1	Weedy Control						1 b	0 c	24 b
2	Hand-Weeded Control						0 b	94 a	95 a
3	Pendimethalin	3.3	EC	0.75	lb ai/a	A	0 b	100 a	96 a
4	Pendimethalin	3.3	EC	1.0	lb ai/a	A	6 b	99 a	96 a
5	Pendimethalin	3.8	CS	0.75	lb ai/a	A	6 b	98 a	93 a
6	Pendimethalin	3.8	CS	1.0	lb ai/a	A	1 b	98 a	97 a
7	CGA 362622 NIS	75	DF	0.0046 0.25	lb ai/a % v/v	A	6 b	87 b	96 a
8	CGA 362622 NIS	75	DF	0.0094 0.25	lb ai/a % v/v	A	4 b	85 b	97 a
9	V10142 NIS	75	DF	0.05 0.25	lb ai/a % v/v	A	6 b	98 a	95 a
10	V10142 NIS	75	DF	0.1 0.25	lb ai/a % v/v	A	0 b	100 a	94 a
11	V10142 NIS	75	DF	0.2 0.25	lb ai/a % v/v	A	0 b	99 a	91 a
12	Pyriithiobac COC	85	WP	0.033 1	lb ai/a % v/v	A	3 b	95 a	88 a
13	Pyriithiobac COC	85	WP	0.042 1	lb ai/a % v/v	A	0 b	93 a	85 a
14	Pendimethalin	3.3	EC	0.75	lb ai/a	B	4 b	100 a	99 a
15	Pendimethalin	3.3	EC	1.0	lb ai/a	B	14 b	100 a	96 a
16	Pendimethalin	3.8	CS	0.75	lb ai/a	B	0 b	98 a	97 a
17	Pendimethalin	3.8	CS	1.0	lb ai/a	B	3 b	100 a	96 a
18	CGA 362622 NIS	75	DF	0.0046 0.25	lb ai/a % v/v	B	45 a	100 a	100 a
19	CGA 362622 NIS	75	DF	0.0094 0.25	lb ai/a % v/v	B	11 b	96 a	92 a
20	V10142 NIS	75	DF	0.05 0.25	lb ai/a % v/v	B	4 b	97 a	97 a
21	V10142 NIS	75	DF	0.1 0.25	lb ai/a % v/v	B	4 b	99 a	97 a
22	V10142 NIS	75	DF	0.2 0.25	lb ai/a % v/v	B	10 b	98 a	94 a
23	Pyriithiobac COC	85	WP	0.033 1	lb ai/a % v/v	B	1 b	99 a	95 a
24	Pyriithiobac COC	85	WP	0.042 1	lb ai/a % v/v	B	4 b	98 a	73 a
LSD (P=.05)							15.4	5.1	21.1
Standard Deviation							10.9	3.6	14.9
CV							196.84	3.89	16.47
Grand Mean							5.52	92.73	90.76
Bartlett's X2							74.589	72.112	157.096
P(Bartlett's X2)							0.001*	0.001*	0.001*
Replicate F							0.179	2.132	0.772
Replicate Prob(F)							0.9101	0.1041	0.5139
Treatment F							2.876	124.145	4.193
Treatment Prob(F)							0.0004	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.

Plant Name						Chile	Palmer amaranth	Wright groundcherry
Rating Date						19/Aug/2005	19/Aug/2005	19/Aug/2005
Rating Data Type						Injury	Control	Control
Rating Unit						%	%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Appl Unit Code	26	27	28
1	Weedy Control					0 a	0 d	0 b
2	Hand-Weeded Control					0 a	85 ab	80 a
3	Pendimethalin	3.3	EC	0.75	lb ai/a A	0 a	99 a	90 a
4	Pendimethalin	3.3	EC	1.0	lb ai/a A	0 a	95 a	88 a
5	Pendimethalin	3.8	CS	0.75	lb ai/a A	0 a	95 a	84 a
6	Pendimethalin	3.8	CS	1.0	lb ai/a A	25 a	97 a	81 a
7	CGA 362622 NIS	75	DF	0.0046 0.25	lb ai/a A % v/v A	0 a	59 c	64 a
8	CGA 362622 NIS	75	DF	0.0094 0.25	lb ai/a A % v/v A	0 a	50 c	75 a
9	V10142 NIS	75	DF	0.05 0.25	lb ai/a A % v/v A	0 a	98 a	83 a
10	V10142 NIS	75	DF	0.1 0.25	lb ai/a A % v/v A	0 a	94 a	97 a
11	V10142 NIS	75	DF	0.2 0.25	lb ai/a A % v/v A	0 a	99 a	75 a
12	Pyriithiobac COC	85	WP	0.033 1	lb ai/a A % v/v A	0 a	76 b	61 a
13	Pyriithiobac COC	85	WP	0.042 1	lb ai/a A % v/v A	0 a	84 ab	55 a
14	Pendimethalin	3.3	EC	0.75	lb ai/a B	0 a	100 a	96 a
15	Pendimethalin	3.3	EC	1.0	lb ai/a B	0 a	100 a	88 a
16	Pendimethalin	3.8	CS	0.75	lb ai/a B	0 a	99 a	93 a
17	Pendimethalin	3.8	CS	1.0	lb ai/a B	0 a	100 a	97 a
18	CGA 362622 NIS	75	DF	0.0046 0.25	lb ai/a B % v/v B	26 a	100 a	99 a
19	CGA 362622 NIS	75	DF	0.0094 0.25	lb ai/a B % v/v B	4 a	93 a	90 a
20	V10142 NIS	75	DF	0.05 0.25	lb ai/a B % v/v B	0 a	99 a	93 a
21	V10142 NIS	75	DF	0.1 0.25	lb ai/a B % v/v B	0 a	99 a	93 a
22	V10142 NIS	75	DF	0.2 0.25	lb ai/a B % v/v B	0 a	100 a	91 a
23	Pyriithiobac COC	85	WP	0.033 1	lb ai/a B % v/v B	0 a	94 a	85 a
24	Pyriithiobac COC	85	WP	0.042 1	lb ai/a B % v/v B	0 a	95 a	92 a
LSD (P=.05)						15.9	11.4	26.1
Standard Deviation						11.2	8.1	18.4
CV						489.58	9.19	22.78
Grand Mean						2.29	87.68	80.99
Bartlett's X2						10.299	122.706	83.506
P(Bartlett's X2)						0.006*	0.001*	0.001*
Replicate F						1.992	1.387	4.378
Replicate Prob(F)						0.1233	0.2539	0.0070
Treatment F						1.661	31.802	5.053
Treatment Prob(F)						0.0553	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.

Plant Name						Time Hoe 23/Aug/2005	Time Hoe	Time Hoe	
Rating Date						Timed Hoe	Total	Total	
Rating Data Type						Seconds	Seconds	hour/ha	
Rating Unit									
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code			
							29	30	
								31	
1	Weedy Control						-		
2	Hand-Weeded Control						232 ab	930 a	
3	Pendimethalin	3.3	EC	0.75	lb ai/a	A	154 ab	522 bc	
4	Pendimethalin	3.3	EC	1.0	lb ai/a	A	178 ab	492 bc	
5	Pendimethalin	3.8	CS	0.75	lb ai/a	A	209 ab	683 abc	
6	Pendimethalin	3.8	CS	1.0	lb ai/a	A	153 ab	610 bc	
7	CGA 362622 NIS	75	DF	0.0046 0.25	lb ai/a % v/v	A A	221 ab	576 bc	
8	CGA 362622 NIS	75	DF	0.0094 0.25	lb ai/a % v/v	A A	231 ab	715 abc	
9	V10142 NIS	75	DF	0.05 0.25	lb ai/a % v/v	A A	181 ab	562 bc	
10	V10142 NIS	75	DF	0.1 0.25	lb ai/a % v/v	A A	255 a	664 abc	
11	V10142 NIS	75	DF	0.2 0.25	lb ai/a % v/v	A A	126 ab	537 bc	
12	Pyriithiobac COC	85	WP	0.033 1	lb ai/a % v/v	A A	175 ab	660 abc	
13	Pyriithiobac COC	85	WP	0.042 1	lb ai/a % v/v	A A	231 ab	672 abc	
14	Pendimethalin	3.3	EC	0.75	lb ai/a	B	51 b	517 bc	
15	Pendimethalin	3.3	EC	1.0	lb ai/a	B	69 ab	585 bc	
16	Pendimethalin	3.8	CS	0.75	lb ai/a	B	79 ab	628 abc	
17	Pendimethalin	3.8	CS	1.0	lb ai/a	B	69 ab	562 bc	
18	CGA 362622 NIS	75	DF	0.0046 0.25	lb ai/a % v/v	B B	54 b	484 c	
19	CGA 362622 NIS	75	DF	0.0094 0.25	lb ai/a % v/v	B B	127 ab	628 abc	
20	V10142 NIS	75	DF	0.05 0.25	lb ai/a % v/v	B B	166 ab	754 abc	
21	V10142 NIS	75	DF	0.1 0.25	lb ai/a % v/v	B B	110 ab	629 abc	
22	V10142 NIS	75	DF	0.2 0.25	lb ai/a % v/v	B B	162 ab	821 ab	
23	Pyriithiobac COC	85	WP	0.033 1	lb ai/a % v/v	B B	176 ab	816 abc	
24	Pyriithiobac COC	85	WP	0.042 1	lb ai/a % v/v	B B	124 ab	591 bc	
LSD (P=.05)							102.2	180.0	32.2
Standard Deviation							72.3	127.3	22.8
CV							49.13	20.01	20.05
Grand Mean							147.14	636.25	113.62
Bartlett's X2							40.695	22.092	22.27
P(Bartlett's X2)							0.009*	0.454	0.444
Replicate F							7.718	37.573	37.362
Replicate Prob(F)							0.0002	0.0001	0.0001
Treatment F							3.521	3.125	3.107
Treatment Prob(F)							0.0001	0.0002	0.0002

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.

CROP DESCRIPTION

Crop: CPSAA *Capsicum annuum* Chile
Variety: Joe E. Parker
Planting Method: Direct seeded
Depth, Unit: 1 inch
Row Spacing, Unit: 40 inch
Soil Moisture: Good
Emergence Date: 05/23/2005

BBCH Scale: BPER
Planting Date: 05/05/2005
Rate, Unit: 4 lb/A
Perennial Age, Unit: N/A
Soil Temperature, Unit: 78 F

SITE AND DESIGN

Plot Width, Unit: 6.667 ft
Replications: 4

Site Type: Field
Study Design: Randomized Complete Block

Previous Crops

1. Forage Sorghum

Previous Pesticides

None

Year

2004

MAINTENANCE

No.	Date	Maintenance Treatment Name	Form Conc	Form Type	Rate	Unit
1.	04/15/2005	Fertilized	11-52-00		500 lbs./A	
2.	04/19/2005	Rows Listed				
3.	04/19/2005	Irrigated				
4.	05/05/2005	Chile Planted			4	lbs./A
5.	05/12/2005	Application A				
6.	05/13/2005	Spray GlyphomaxPlus			2	% V/V
7.	05/16/2005	Application B				
8.	05/17/2005	Irrigated				
9.	05/24/2005	Quadris + Actara			10 + 3	oz /A
10.	05/24/2005	Irrigated				
11.	06/10/2005	Irrigated				
12.	06/15/2005	Hand weeded Timed				
13.	06/16/2005	Cultivated				
14.	06/16/2005	Irrigated				
16.	06/23/2005	Irrigated + Uran				
17.	06/30/2005	Irrigated				
18.	07/08/2005	Irrigated				
19.	07/12/2005	Hand weeded Timed				
20.	07/15/2005	Irrigated				
21.	07/22/2005	Hand weeded Timed				
22.	07/22/2005	Irrigated				
23.	07/29/2005	Irrigated				
24.	08/04/2005	Plant Count				
25.	08/24/2005	Hand weeded Timed				
26.	08/30/2005	Irrigated				
27.	09/16/2005	Irrigated				
28.	09/29/2005	Disked Under				

Soil Description

%Sand: 44 **%OM:** 2.1 **Texture:** Clay loam
% Silt: 19 **pH:** 8.1 **Soil Name:** Belen Clay
% Clay: 37 **CEC:** 46.1 meq/100g

MOISTURE CONDITIONS

Closest Weather Station: Leyendecker Plant Sciences Headquarters **Distance:** 0.5 **Unit:** MI
Overall Moisture Conditions: Good throughout the year

APPLICATION DESCRIPTION	A	B
Application Date:	5/12/2005	5/16/2005
Time of Day:	Morning	Morning
Application Method:	Spray	Spray
Application Timing:	PRE/BC	PRE/AC
Application Placement:	Overtop	Overtop
Applied By:	Justin	Justin
Air Temperature, Unit:	75 F	87 F
% Relative Humidity:	33	42
Wind Velocity, MPH:	3	1
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	68 F	71 F
Soil Moisture:	Good	Dry
% Cloud Cover:	0	0

CROP STAGE APPLICATION	A	B
Height, Unit:	N/A	N/A
Height Minimum, Maximum	N/A	N/A

APPLICATION EQUIPMENT	A	B
Appl. Equipment:	Backpack	Backpack
Operating Pressure:	20	20
Pressure Unit:	PSI	PSI
Nozzle Type:	Teejet	Teejet
Nozzle Size:	11002	11002
Nozzle Spacing, Unit:	20 Inch	20 Inch
Nozzle/Row:	2	2
Band Width, Unit:	20 Inch	20 Inch
Boom Height, Unit:	18 Inch	18 Inch
Ground Speed, Unit:	2 MPH	2 MPH
Incorporation Equip.:	N/A	N/A
Hours to Incorp.:	N/A	N/A
Carrier:	Water	Water
Spray Volume:	20	20
Volume Unit:	Gal/Ac	Gal/Ac
Propellant:	CO2	CO2

THINNING COMMENTS

Plants were not thinned manually because the chile stand was poor.

APPLICATION COMMENTS

Treatments 14 through 17 were hand weeded prior to application B on 06/29/2005.

Treatments 5 and 11 were supposed to be applied at 0.033 lb ai/a, but were applied at 0.33 lb ai/a.

RATING COMMENTS

Each plot was blindly rated on a percent basis 0-100, where 0 was no injury or damage to the chile plant and 100 was complete necrosis or death. Weed control was rated using the same scale, where 0 was no weed control and 100 was weed free.

HARVEST COMMENTS

Chile peppers were not harvested because the chile stand was poor.

Plant Name						Chile	Chile	Palmer amaranth
Rating Date						1/May/2005	31/May/2005	31/May/2005
Rating Data Type						Timed Hoe	Injury	Control
Rating Unit						Seconds	%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Appl Unit Code	1	2	3
1	Hand-Weeded Control					306 a	25 a	37 b
2	Weedy Control						36 a	34 b
3	Pendimethalin	3.3	EC	0.75 lb ai/a	A	210 b	23 a	91 a
4	Pendimethalin	3.8	CS	0.75 lb ai/a	A	196 bc	33 a	84 a
5	Pyrithiobac	85	WP	0.33 lb ai/a	A	73 ef	31 a	98 a
6	Pendimethalin	3.3	EC	1.0 lb ai/a	A	190 bc	26 a	89 a
7	Pendimethalin	3.8	CS	1.0 lb ai/a	A	165 bcd	21 a	72 ab
8	Pyrithiobac	85	WP	0.042 lb ai/a	A	185 bc	31 a	96 a
9	Pendimethalin	3.3	EC	0.75 lb ai/a	B	126 c-f	41 a	97 a
10	Pendimethalin	3.8	CS	0.75 lb ai/a	B	111 def	26 a	97 a
11	Pyrithiobac	85	WP	0.33 lb ai/a	B	55 f	53 a	99 a
12	Pendimethalin	3.3	EC	1.0 lb ai/a	B	108 def	35 a	98 a
13	Pendimethalin	3.8	CS	1.0 lb ai/a	B	93 def	26 a	74 ab
14	Pyrithiobac	85	WP	0.042 lb ai/a	B	131 cde	19 a	96 a
LSD (P=.05)						48.6	22.7	33.6
Standard Deviation						34.0	15.9	23.5
CV						24.43	52.14	28.38
Grand Mean						139.11	30.42	82.91
Bartlett's X2						15.524	11.948	88.626
P(Bartlett's X2)						0.214	0.532	0.001*
Replicate F						9.181	5.130	1.035
Replicate Prob(F)						0.0001	0.0045	0.3879
Treatment F						20.298	1.266	3.504
Treatment Prob(F)						0.0001	0.2752	0.0013

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.

Plant Name					Spurred anoda 31/May/2005	Chile 1/Jun/2005	Chile 8/Jun/2005
Rating Date					Control	Timed Hoe	Injury
Rating Data Type					%	Seconds	%
Rating Unit							
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Appl Unit	Code	
1	Hand-Weeded Control						
2	Weedy Control						
3	Pendimethalin	3.3	EC	0.75	lb ai/a	A	
4	Pendimethalin	3.8	CS	0.75	lb ai/a	A	
5	Pyrithiobac	85	WP	0.33	lb ai/a	A	
6	Pendimethalin	3.3	EC	1.0	lb ai/a	A	
7	Pendimethalin	3.8	CS	1.0	lb ai/a	A	
8	Pyrithiobac	85	WP	0.042	lb ai/a	A	
9	Pendimethalin	3.3	EC	0.75	lb ai/a	B	
10	Pendimethalin	3.8	CS	0.75	lb ai/a	B	
11	Pyrithiobac	85	WP	0.33	lb ai/a	B	
12	Pendimethalin	3.3	EC	1.0	lb ai/a	B	
13	Pendimethalin	3.8	CS	1.0	lb ai/a	B	
14	Pyrithiobac	85	WP	0.042	lb ai/a	B	
LSD (P=.05)					35.2	188.6	19.5
Standard Deviation					24.6	132.0	13.7
CV					47.83	44.23	30.37
Grand Mean					51.45	298.34	45.0
Bartlett's X2					16.782	7.572	15.728
P(Bartlett's X2)					0.209	0.818	0.264
Replicate F					10.484	1.190	1.390
Replicate Prob(F)					0.0001	0.3261	0.2603
Treatment F					3.602	3.813	2.878
Treatment Prob(F)					0.0010	0.0006	0.0053

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.

Plant Name					Palmer amaranth	Chile	Chile Stand	
Rating Date					8/Jun/2005	15/Jun/2005	15/Jun/2005	
Rating Data Type					Control	Timed Hoe	Reduction	
Rating Unit					%	seconds	%	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Code	7	8	9
1	Hand-Weeded Control					65 b	306 a	60 a
2	Weedy Control					20 c	-	64 a
3	Pendimethalin	3.3	EC	0.75 lb ai/a	A	85 a	210 b	56 a
4	Pendimethalin	3.8	CS	0.75 lb ai/a	A	86 a	196 bc	58 a
5	Pyrithiobac	85	WP	0.33 lb ai/a	A	100 a	73 e	53 a
6	Pendimethalin	3.3	EC	1.0 lb ai/a	A	85 a	190 bc	61 a
7	Pendimethalin	3.8	CS	1.0 lb ai/a	A	90 a	165 bcd	53 a
8	Pyrithiobac	85	WP	0.042 lb ai/a	A	94 a	185 bc	53 a
9	Pendimethalin	3.3	EC	0.75 lb ai/a	B	98 a	126 cde	70 a
10	Pendimethalin	3.8	CS	0.75 lb ai/a	B	96 a	111 de	63 a
11	Pyrithiobac	85	WP	0.33 lb ai/a	B	100 a	55 e	74 a
12	Pendimethalin	3.3	EC	1.0 lb ai/a	B	99 a	108 de	75 a
13	Pendimethalin	3.8	CS	1.0 lb ai/a	B	96 a	93 de	78 a
14	Pyrithiobac	85	WP	0.042 lb ai/a	B	95 a	131 cde	36 a
LSD (P=.05)						13.2	49.9	25.4
Standard Deviation						9.3	34.9	17.8
CV						10.72	25.09	29.22
Grand Mean						86.34	139.11	60.79
Bartlett's X2						30.92	15.524	11.101
P(Bartlett's X2)						0.001*	0.214	0.602
Replicate F						1.479	8.711	0.515
Replicate Prob(F)						0.2351	0.0002	0.6745
Treatment F						21.030	19.257	1.541
Treatment Prob(F)						0.0001	0.0001	0.1464

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.

Plant Name					Chile	Palmer amaranth	Chile Stand		
Rating Date					15/Jun/2005	15/Jun/2005	22/Jun/2005		
Rating Data Type					Injury	Control	Injury		
Rating Unit					%	%	%		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Appl Unit	Code	10	11	12
1	Hand-Weeded Control						6 ab	19 d	6 ab
2	Weedy Control						5 ab	0 d	9 ab
3	Pendimethalin	3.3	EC	0.75	lb ai/a	A	5 ab	64 bc	3 ab
4	Pendimethalin	3.8	CS	0.75	lb ai/a	A	3 b	46 c	0 b
5	Pyrithiobac	85	WP	0.33	lb ai/a	A	8 ab	98 ab	3 ab
6	Pendimethalin	3.3	EC	1.0	lb ai/a	A	3 b	58 c	0 b
7	Pendimethalin	3.8	CS	1.0	lb ai/a	A	5 ab	58 c	8 ab
8	Pyrithiobac	85	WP	0.042	lb ai/a	A	8 ab	90 ab	5 ab
9	Pendimethalin	3.3	EC	0.75	lb ai/a	B	9 ab	97 ab	5 ab
10	Pendimethalin	3.8	CS	0.75	lb ai/a	B	6 ab	91 ab	8 ab
11	Pyrithiobac	85	WP	0.33	lb ai/a	B	6 ab	100 a	5 ab
12	Pendimethalin	3.3	EC	1.0	lb ai/a	B	9 ab	95 ab	6 ab
13	Pendimethalin	3.8	CS	1.0	lb ai/a	B	11 a	97 ab	11 a
14	Pyrithiobac	85	WP	0.042	lb ai/a	B	1 b	88 ab	1 b
LSD (P=.05)					4.9	21.5	5.8		
Standard Deviation					3.4	15.1	4.0		
CV					56.87	21.1	82.19		
Grand Mean					5.98	71.36	4.91		
Bartlett's X2					8.18	41.865	12.432		
P(Bartlett's X2)					0.697	0.001*	0.257		
Replicate F					0.862	0.977	0.174		
Replicate Prob(F)					0.4692	0.4135	0.9136		
Treatment F					2.591	18.069	2.743		
Treatment Prob(F)					0.0109	0.0001	0.0075		

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.

Plant Name					Chile	Palmer amaranth	Chile
Rating Date					22/Jun/2005	22/Jun/2005	29/Jun/2005
Rating Data Type					Reduction	Control	Injury
Rating Unit					%	%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Appl Unit	Code	
1	Hand-Weeded Control						
2	Weedy Control						
3	Pendimethalin	3.3	EC	0.75	lb ai/a	A	
4	Pendimethalin	3.8	CS	0.75	lb ai/a	A	
5	Pyrithiobac	85	WP	0.33	lb ai/a	A	
6	Pendimethalin	3.3	EC	1.0	lb ai/a	A	
7	Pendimethalin	3.8	CS	1.0	lb ai/a	A	
8	Pyrithiobac	85	WP	0.042	lb ai/a	A	
9	Pendimethalin	3.3	EC	0.75	lb ai/a	B	
10	Pendimethalin	3.8	CS	0.75	lb ai/a	B	
11	Pyrithiobac	85	WP	0.33	lb ai/a	B	
12	Pendimethalin	3.3	EC	1.0	lb ai/a	B	
13	Pendimethalin	3.8	CS	1.0	lb ai/a	B	
14	Pyrithiobac	85	WP	0.042	lb ai/a	B	
LSD (P=.05)					29.8	14.7	31.4
Standard Deviation					20.8	10.3	22.0
CV					33.18	11.76	172.36
Grand Mean					62.79	87.25	12.77
Bartlett's X2					22.854	85.866	67.872
P(Bartlett's X2)					0.043*	0.001*	0.001*
Replicate F					1.139	1.240	1.304
Replicate Prob(F)					0.3451	0.3084	0.2869
Treatment F					3.604	26.274	1.281
Treatment Prob(F)					0.0009	0.0001	0.2651

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.

Plant Name					Palmer amaranth	Chile	Palmer amaranth	
Rating Date					29/Jun/2005	6/Jul/2005	6/Jul/2005	
Rating Data Type					Control	Injury	Control	
Rating Unit					%	%	%	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Code	16	17	18
1	Hand-Weeded Control					56 b	4 b	60 b
2	Weedy Control					0 c	0 b	0 c
3	Pendimethalin	3.3	EC	0.75 lb ai/a	A	73 ab	4 b	81 ab
4	Pendimethalin	3.8	CS	0.75 lb ai/a	A	69 ab	4 b	76 ab
5	Pyrithiobac	85	WP	0.33 lb ai/a	A	95 ab	6 b	96 a
6	Pendimethalin	3.3	EC	1.0 lb ai/a	A	89 ab	4 b	80 ab
7	Pendimethalin	3.8	CS	1.0 lb ai/a	A	75 ab	31 b	81 ab
8	Pyrithiobac	85	WP	0.042 lb ai/a	A	90 ab	5 b	86 ab
9	Pendimethalin	3.3	EC	0.75 lb ai/a	B	91 ab	8 b	90 ab
10	Pendimethalin	3.8	CS	0.75 lb ai/a	B	95 ab	11 b	90 ab
11	Pyrithiobac	85	WP	0.33 lb ai/a	B	99 a	35 b	99 a
12	Pendimethalin	3.3	EC	1.0 lb ai/a	B	95 ab	33 b	86 ab
13	Pendimethalin	3.8	CS	1.0 lb ai/a	B	92 ab	79 a	89 ab
14	Pyrithiobac	85	WP	0.042 lb ai/a	B	85 ab	5 b	89 ab
LSD (P=.05)						23.4	33.7	18.9
Standard Deviation						16.3	23.6	13.2
CV						20.79	144.94	16.79
Grand Mean						78.63	16.25	78.7
Bartlett's X2						45.015	62.675	27.276
P(Bartlett's X2)						0.001*	0.001*	0.007*
Replicate F						1.334	0.280	0.646
Replicate Prob(F)						0.2774	0.8394	0.5901
Treatment F						9.918	3.378	13.763
Treatment Prob(F)						0.0001	0.0016	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.

Plant Name						Wright groundcherry	Chile	Palmer amaranth
Rating Date						6/Jul/2005	12/Jul/2005	12/Jul/2005
Rating Data Type						Control	Injury	Control
Rating Unit						%	%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Appl Unit Code	19	20	21
1	Hand-Weeded Control					91 a	0 a	53 c
2	Weedy Control					0 c	0 a	0 d
3	Pendimethalin	3.3	EC	0.75	lb ai/a A	94 a	0 a	73 abc
4	Pendimethalin	3.8	CS	0.75	lb ai/a A	94 a	0 a	69 bc
5	Pyrithiobac	85	WP	0.33	lb ai/a A	92 a	0 a	93 ab
6	Pendimethalin	3.3	EC	1.0	lb ai/a A	95 a	0 a	70 bc
7	Pendimethalin	3.8	CS	1.0	lb ai/a A	90 ab	0 a	70 bc
8	Pyrithiobac	85	WP	0.042	lb ai/a A	86 ab	0 a	79 abc
9	Pendimethalin	3.3	EC	0.75	lb ai/a B	84 ab	0 a	74 abc
10	Pendimethalin	3.8	CS	0.75	lb ai/a B	83 ab	0 a	75 abc
11	Pyrithiobac	85	WP	0.33	lb ai/a B	95 a	0 a	98 a
12	Pendimethalin	3.3	EC	1.0	lb ai/a B	90 ab	0 a	75 abc
13	Pendimethalin	3.8	CS	1.0	lb ai/a B	88 ab	0 a	79 abc
14	Pyrithiobac	85	WP	0.042	lb ai/a B	76 b	0 a	78 abc
LSD (P=.05)						9.3	0.0	16.0
Standard Deviation						6.5	0.0	11.2
CV						7.89	0.0	15.93
Grand Mean						82.68	0.0	70.18
Bartlett's X2						14.504	0.0	6.687
P(Bartlett's X2)						0.27	.	0.878
Replicate F						2.031	0.000	1.128
Replicate Prob(F)						0.1253	1.0000	0.3495
Treatment F						55.885	0.000	16.608
Treatment Prob(F)						0.0001	1.0000	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.

Plant Name					Wright groundcherry	Chile	Chile	Chile		
Rating Date					12/Jul/2005	12/Jul/2005	22/Jul/2005	22/Jul/2005		
Rating Data Type					Control	Timed Hoe	Injury	Timed Hoe		
Rating Unit					%	seconds	%	seconds		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Appl Unit	Code	22	23	24	25
1	Hand-Weeded Control						69 a	308 a	8 a	94 a
2	Weedy Control						0 b	-	0 a	-
3	Pendimethalin	3.3	EC	0.75	lb ai/a	A	63 a	253 ab	1 a	51 a
4	Pendimethalin	3.8	CS	0.75	lb ai/a	A	79 a	263 ab	0 a	48 a
5	Pyrithiobac	85	WP	0.33	lb ai/a	A	65 a	145 ab	3 a	61 a
6	Pendimethalin	3.3	EC	1.0	lb ai/a	A	76 a	214 ab	3 a	60 a
7	Pendimethalin	3.8	CS	1.0	lb ai/a	A	74 a	276 a	26 a	62 a
8	Pyrithiobac	85	WP	0.042	lb ai/a	A	50 a	255 ab	1 a	70 a
9	Pendimethalin	3.3	EC	0.75	lb ai/a	B	63 a	263 ab	4 a	66 a
10	Pendimethalin	3.8	CS	0.75	lb ai/a	B	65 a	234 ab	1 a	80 a
11	Pyrithiobac	85	WP	0.33	lb ai/a	B	69 a	100 b	28 a	50 a
12	Pendimethalin	3.3	EC	1.0	lb ai/a	B	65 a	228 ab	25 a	65 a
13	Pendimethalin	3.8	CS	1.0	lb ai/a	B	71 a	188 ab	49 a	52 a
14	Pyrithiobac	85	WP	0.042	lb ai/a	B	59 a	296 a	5 a	93 a
LSD (P=.05)					21.1	102.2	36.9	33.7		
Standard Deviation					14.8	71.5	25.8	23.6		
CV					23.84	33.14	236.76	38.83		
Grand Mean					61.88	215.8	10.89	60.7		
Bartlett's X2					10.152	23.085	76.192	15.133		
P(Bartlett's X2)					0.603	0.027*	0.001*	0.234		
Replicate F					1.370	11.172	0.488	0.905		
Replicate Prob(F)					0.2663	0.0001	0.6928	0.4477		
Treatment F					6.821	5.551	1.341	3.773		
Treatment Prob(F)					0.0001	0.0001	0.2323	0.0006		

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.

Plant Name					Chile	Chile	Palmer amaranth
Rating Date					4/Aug/2005	5/Aug/2005	5/Aug/2005
Rating Data Type					Chile Count	Injury	Control
Rating Unit						%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Appl Unit	Code	
					26	27	28
1	Hand-Weeded Control				15 ab	2 b	82 a
2	Weedy Control				0 b	0 b	25 b
3	Pendimethalin	3.3	EC	0.75	lb ai/a	A	12 ab
4	Pendimethalin	3.8	CS	0.75	lb ai/a	A	12 ab
5	Pyrithiobac	85	WP	0.33	lb ai/a	A	21 a
6	Pendimethalin	3.3	EC	1.0	lb ai/a	A	15 ab
7	Pendimethalin	3.8	CS	1.0	lb ai/a	A	16 ab
8	Pyrithiobac	85	WP	0.042	lb ai/a	A	18 ab
9	Pendimethalin	3.3	EC	0.75	lb ai/a	B	8 ab
10	Pendimethalin	3.8	CS	0.75	lb ai/a	B	8 ab
11	Pyrithiobac	85	WP	0.33	lb ai/a	B	12 ab
12	Pendimethalin	3.3	EC	1.0	lb ai/a	B	5 ab
13	Pendimethalin	3.8	CS	1.0	lb ai/a	B	1 ab
14	Pyrithiobac	85	WP	0.042	lb ai/a	B	21 a
	LSD (P=.05)				11.4	2.6	29.4
	Standard Deviation				8.0	1.8	20.6
	CV				69.34	176.43	23.07
	Grand Mean				11.55	1.01	89.23
	Bartlett's X2				21.869	1.019	113.333
	P(Bartlett's X2)				0.039*	0.797	0.001*
	Replicate F				0.462	0.560	0.164
	Replicate Prob(F)				0.7106	0.6453	0.9200
	Treatment F				2.765	4.013	3.738
	Treatment Prob(F)				0.0070	0.0007	0.0007

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.

Plant Name						Wright groundcherry	Chile	Palmer amaranth
Rating Date						5/Aug/2005	19/Aug/2005	19/Aug/2005
Rating Data Type						Control	Injury	Control
Rating Unit						%	%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Appl Unit Code	29	30	31
1	Hand-Weeded Control					87 a	0 a	66 b
2	Weedy Control					0 b	0 a	0 c
3	Pendimethalin	3.3	EC	0.75	lb ai/a A	90 a	0 a	93 a
4	Pendimethalin	3.8	CS	0.75	lb ai/a A	94 a	0 a	93 a
5	Pyrithiobac	85	WP	0.33	lb ai/a A	97 a	0 a	93 a
6	Pendimethalin	3.3	EC	1.0	lb ai/a A	96 a	0 a	99 a
7	Pendimethalin	3.8	CS	1.0	lb ai/a A	95 a	0 a	98 a
8	Pyrithiobac	85	WP	0.042	lb ai/a A	95 a	0 a	76 ab
9	Pendimethalin	3.3	EC	0.75	lb ai/a B	93 a	0 a	97 a
10	Pendimethalin	3.8	CS	0.75	lb ai/a B	93 a	0 a	91 a
11	Pyrithiobac	85	WP	0.33	lb ai/a B	90 a	0 a	98 a
12	Pendimethalin	3.3	EC	1.0	lb ai/a B	88 a	0 a	99 a
13	Pendimethalin	3.8	CS	1.0	lb ai/a B	93 a	0 a	98 a
14	Pyrithiobac	85	WP	0.042	lb ai/a B	93 a	0 a	91 a
LSD (P=.05)						8.1	0.0	16.7
Standard Deviation						5.7	0.0	11.7
CV						6.63	0.0	13.79
Grand Mean						85.95	0.0	84.98
Bartlett's X2						14.508	0.0	55.03
P(Bartlett's X2)						0.269	.	0.001*
Replicate F						9.222	0.000	1.345
Replicate Prob(F)						0.0001	1.0000	0.2739
Treatment F						76.408	0.000	19.996
Treatment Prob(F)						0.0001	1.0000	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.

Plant Name					Wright groundcherry	Chile	Time Hoe	Time Hoe		
Rating Date					19/Aug/2005	24/Aug/2005				
Rating Data Type					Control	Weed Count	Total	Total		
Rating Unit					%	Count	seconds	Hour/Ha		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Appl Unit	Code	32	33	34	35
1	Hand-Weeded Control						85 a	19 ab	1385 a	247 a
2	Weedy Control						0 b	0 b	-	-
3	Pendimethalin	3.3	EC	0.75	lb ai/a	A	76 a	23 ab	1045 bc	187 bc
4	Pendimethalin	3.8	CS	0.75	lb ai/a	A	85 a	15 ab	965 bc	172 bc
5	Pyrithiobac	85	WP	0.33	lb ai/a	A	89 a	18 ab	588 de	105 de
6	Pendimethalin	3.3	EC	1.0	lb ai/a	A	90 a	15 ab	962 bc	172 bc
7	Pendimethalin	3.8	CS	1.0	lb ai/a	A	86 a	14 ab	1019 bc	182 bc
8	Pyrithiobac	85	WP	0.042	lb ai/a	A	89 a	16 ab	920 bc	164 bc
9	Pendimethalin	3.3	EC	0.75	lb ai/a	B	78 a	36 a	1111 b	199 b
10	Pendimethalin	3.8	CS	0.75	lb ai/a	B	76 a	18 ab	1007 bc	180 bc
11	Pyrithiobac	85	WP	0.33	lb ai/a	B	89 a	14 ab	410 e	73 e
12	Pendimethalin	3.3	EC	1.0	lb ai/a	B	76 a	16 ab	836 bcd	149 bcd
13	Pendimethalin	3.8	CS	1.0	lb ai/a	B	73 a	17 ab	714 cd	127 cd
14	Pyrithiobac	85	WP	0.042	lb ai/a	B	81 a	29 a	983 bc	176 bc
LSD (P=.05)					15.4	14.7	228.2	40.8		
Standard Deviation					10.8	10.3	159.7	28.6		
CV					14.09	58.2	17.38	17.42		
Grand Mean					76.52	17.73	918.67	164.06		
Bartlett's X2					18.276	24.922	7.246	7.282		
P(Bartlett's X2)					0.108	0.015*	0.841	0.838		
Replicate F					19.591	1.761	0.065	0.065		
Replicate Prob(F)					0.0001	0.1706	0.9782	0.9779		
Treatment F					17.848	2.458	9.323	9.275		
Treatment Prob(F)					0.0001	0.0151	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.

CROP DESCRIPTION

Crop: CPSAA *Capsicum annuum* Chile
Variety: Joe E. Parker
Planting Method: Direct seeded
Depth, Unit: 1 inch
Row Spacing, Unit: 40 inch
Soil Moisture: Good
Emergence Date: 05/23/2005

BBCH Scale: BPER
Planting Date: 05/05/2005
Rate, Unit: 4 lb/A
Perennial Age, Unit: N/A
Soil Temperature, Unit: 78 F

SITE AND DESIGN

Plot Width, Unit: 6.667 ft
Replications: 4

Site Type: Field
Study Design: Randomized Complete Block

Previous Crops

1. Forage Sorghum

Previous Pesticides

None

Year

2004

MAINTENANCE

No.	Date	Maintenance Treatment Name	Form Conc	Form Type	Rate	Rate Unit
1.	04/15/2005	Fertilized	11-52-00		500	lbs./A
2.	04/19/2005	Rows Listed				
3.	04/19/2005	Irrigated				
4.	05/05/2005	Chile Planted			4	lbs./A
5.	05/12/2005	PRE Staple + Prowl			1.0 +0.042	lb AI/A
6.	05/12/2005	Spray GlyphomaxPlus			2	% V/V
7.	05/17/2005	Irrigated				
8.	05/24/2005	Quadris + Actara			10 + 3	oz /A
9.	05/24/2005	Irrigated				
10.	06/10/2005	Irrigated				
11.	06/15/2005	Hand weeded No Time				
12.	06/16/2005	Cultivated				
13.	06/16/2005	Irrigated				
14.	06/23/2005	Irrigated + Uran				
15.	06/28/2005	Hand weeded No Time				
16.	06/30/2005	Irrigated				
17.	07/08/2005	Irrigated				
18.	07/12/2005	Hand weeded No Time				
19.	07/15/2005	Irrigated				
20.	07/22/2005	Irrigated				
21.	07/29/2005	Irrigated				
22.	08/04/2005	Plant Count				
23.	08/11/2005	Hand weeded No Time				
24.	08/12/2005	Application A				
25.	08/30/2005	Irrigated				
26.	09/13/2005	Plant Count				
27.	09/16/2005	Irrigated				

Soil Description

%Sand: 44 **%OM:** 2.1 **Texture:** Clay loam
% Silt: 19 **pH:** 8.1 **Soil Name:** Belen Clay
% Clay: 37 **CEC:** 46.1 meq/100g

MOISTURE CONDITIONS

Closest Weather Station: Leyendecker Plant Sciences Headquarters **Distance:** 0.5 **Unit:** MI
Overall Moisture Conditions: Good throughout the year

APPLICATION DESCRIPTION **A**
Application Date: 8/12/2005
Time of Day: Morning
Application Method: Spray
Application Timing: POST
Application Placement: Overtop
Applied By: Justin
Air Temperature, Unit: 78 F
% Relative Humidity: 70
Wind Velocity, Unit: 1
Dew Presence (Y/N): N
Soil Temperature, Unit: 80 F
Soil Moisture: Dry
% Cloud Cover: 0

CROP STAGE
APPLICATION **A**
Height, Unit: Inches
Height Minimum, Maximum 11-31
Growth Stage: Fruiting, pod formation

APPLICATION EQUIPMENT **A**
Appl. Equipment: Backpack
Operating Pressure: 22
Pressure Unit: PSI
Nozzle Type: Teejet
Nozzle Size: 11002
Nozzle Spacing, Unit: 20 Inch
Nozzle/Row: 2
Band Width, Unit: 20 Inch
Boom Height, Unit: 18 Inch
Ground Speed, Unit: 2 MPH
Incorporation Equip.: N/A
Hours to Incorp.: N/A
Carrier: Water
Spray Volume: 20
Volume Unit: Gal/Ac
Propellant: CO2

THINNING COMMENTS
Plants were not thinned manually because the chile stand was poor.

APPLICATION COMMENTS
All treatments were supposed to be applied POST directed as a layby treatment. All treatments were applied POST over-the-top as a layby treatment.

RATING COMMENTS
Each plot was blindly rated on a percent basis 0-100, where 0 was no injury or damage to the chile plant and 100 was complete necrosis or death. Weed control was rated using the same scale, where 0 was no weed control and 100 was weed free.

HARVEST COMMENTS
Chile peppers were not harvested because the chile stand was poor.

Plant Name						Chile	Chile	Palmer amaranth	
Rating Date						4/Aug/2005	19/Aug/2005	19/Aug/2005	
Rating Data Type						Chile Stand	Injury	Control	
Rating Unit						Count	%	%	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Appl Code	1	2	3
1	Hand-Weeded Control						18 a	4 d	100 a
2	Weedy Control						15 a	2 d	100 a
3	Oxyfluorfen Agridex	2	EC	0.125	LB A/A 1 % V/V	A A	9 a	29 bc	100 a
4	Oxyfluorfen Agridex	2	EC	0.25	LB A/A 1 % V/V	A A	16 a	26 bc	100 a
5	Sulfentrazone Agridex	75	DG	0.15	LB A/A 1 % V/V	A A	21 a	24 c	100 a
6	Sulfentrazone Agridex	75	DG	0.25	LB A/A 1 % V/V	A A	15 a	28 bc	100 a
7	V-10142 Agridex	75	DG	0.1	LB A/A 1 % V/V	A A	11 a	5 d	100 a
8	V-10142 Agridex	75	DG	0.2	LB A/A 1 % V/V	A A	11 a	0 d	100 a
9	V-10142 Agridex	75	DG	0.3	LB A/A 1 % V/V	A A	16 a	6 d	100 a
10	Flumioxazin Agridex	51	DF	0.09562	LB A/A 1 % V/V	A A	23 a	43 b	100 a
11	V-10142 Flumioxazin Agridex	75 51	DG DF	0.1 0.09562	LB A/A LB A/A	A A	19 a	33 bc	100 a
12	V-10142 Flumioxazin Agridex	75 51	DG DF	0.2 0.09562	LB A/A LB A/A	A A	22 a	39 bc	100 a
13	Oxyfluorfen Flumioxazin Agridex	2 51	EC DF	0.25 0.09562	LB A/A LB A/A	A A	6 a	55 a	100 a
LSD (P=.05)							11.1	11.9	0.0
Standard Deviation							7.8	8.2	0.0
CV							50.49	36.7	0.0
Grand Mean							15.4	22.45	100.0
Bartlett's X2							8.277	20.589	0.0
P(Bartlett's X2)							0.763	0.038*	.
Replicate F							0.628	0.237	0.000
Replicate Prob(F)							0.6018	0.8699	1.0000
Treatment F							1.865	18.472	0.000
Treatment Prob(F)							0.0740	0.0001	1.0000

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.

Plant Name						Wright groundcherry	Chile
Rating Date						19/Aug/2005	26/Aug/2005
Rating Data Type						Control	Injury
Rating Unit						%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	
						4	5
1	Hand-Weeded Control					98 a	5 c
2	Weedy Control					95 a	4 c
3	Oxyfluorfen Agridex	2	EC	0.125	LB A/A 1 % V/V	A A	100 a 19 bc
4	Oxyfluorfen Agridex	2	EC	0.25	LB A/A 1 % V/V	A A	100 a 16 bc
5	Sulfentrazone Agridex	75	DG	0.15	LB A/A 1 % V/V	A A	100 a 14 bc
6	Sulfentrazone Agridex	75	DG	0.25	LB A/A 1 % V/V	A A	100 a 15 bc
7	V-10142 Agridex	75	DG	0.1	LB A/A 1 % V/V	A A	95 a 5 c
8	V-10142 Agridex	75	DG	0.2	LB A/A 1 % V/V	A A	98 a 5 c
9	V-10142 Agridex	75	DG	0.3	LB A/A 1 % V/V	A A	96 a 5 c
10	Flumioxazin Agridex	51	DF	0.09562	LB A/A 1 % V/V	A A	100 a 33 b
11	V-10142 Flumioxazin Agridex	75 51	DG DF	0.1 0.09562	LB A/A LB A/A	A A	100 a 25 bc
12	V-10142 Flumioxazin Agridex	75 51	DG DF	0.2 0.09562	LB A/A LB A/A	A A	100 a 28 b
13	Oxyfluorfen Flumioxazin Agridex	2 51	EC DF	0.25 0.09562	LB A/A LB A/A	A A	100 a 48 a
LSD (P=.05)						3.0	13.1
Standard Deviation						2.0	9.1
CV						2.07	53.52
Grand Mean						98.64	16.96
Bartlett's X2						5.944	38.877
P(Bartlett's X2)						0.114	0.001*
Replicate F						1.126	0.560
Replicate Prob(F)						0.3522	0.6449
Treatment F						3.396	8.546
Treatment Prob(F)						0.0025	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.

Plant Name						Wright groundcherry	Chile	Total Weed Count
Rating Date						26/Aug/2005	9/Sep/2005	9/Sep/2005
Rating Data Type						Control	Injury	Weed Count
Rating Unit						%	%	Count
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Appl Code	6	7	8
1	Hand-Weeded Control					95 ab	6 d	6 ab
2	Weedy Control					90 b	10 bcd	7 ab
3	Oxyfluorfen Agridex	2	EC	0.125 1 % V/V	LB A/A A	100 a	16 ab	1 c
4	Oxyfluorfen Agridex	2	EC	0.25 1 % V/V	LB A/A A	100 a	14 a-d	1 c
5	Sulfentrazone Agridex	75	DG	0.15 1 % V/V	LB A/A A	100 a	15 abc	3 bc
6	Sulfentrazone Agridex	75	DG	0.25 1 % V/V	LB A/A A	100 a	15 abc	0 c
7	V-10142 Agridex	75	DG	0.1 1 % V/V	LB A/A A	91 ab	9 bcd	9 a
8	V-10142 Agridex	75	DG	0.2 1 % V/V	LB A/A A	95 ab	11 bcd	4 bc
9	V-10142 Agridex	75	DG	0.3 1 % V/V	LB A/A A	97 ab	7 cd	3 bc
10	Flumioxazin Agridex	51	DF	0.09562 1 % V/V	LB A/A A	100 a	16 abc	0 c
11	V-10142 Flumioxazin Agridex	75 51	DG DF	0.1 0.09562 1 % V/V	LB A/A LB A/A A	100 a	17 ab	1 c
12	V-10142 Flumioxazin Agridex	75 51	DG DF	0.2 0.09562 1 % V/V	LB A/A LB A/A A	100 a	17 ab	1 c
13	Oxyfluorfen Flumioxazin Agridex	2 51	EC DF	0.25 0.09562 1 % V/V	LB A/A LB A/A A	100 a	20 a	0 c
LSD (P=.05)						5.4	5.5	3.3
Standard Deviation						3.8	3.8	2.3
CV						3.86	28.39	88.45
Grand Mean						97.44	13.3	2.62
Bartlett's X2						16.546	9.685	41.987
P(Bartlett's X2)						0.011*	0.559	0.001*
Replicate F						0.045	2.583	1.984
Replicate Prob(F)						0.9872	0.0699	0.1338
Treatment F						3.577	4.943	6.444
Treatment Prob(F)						0.0015	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.

Plant Name						Chile 13/Sep/2005 Chile Count Count	Chile 19/Sep/2005 Injury %	Total weed count 19/Sep/2005 Weed Count Count
Rating Date						9	10	11
Rating Data Type								
Rating Unit								
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Appl Code		
1	Hand-Weeded Control						11 a	6 a
2	Weedy Control						9 a	6 a
3	Oxyfluorfen Agridex	2	EC	0.125	LB A/A 1 % V/V	A A	7 a	6 a
4	Oxyfluorfen Agridex	2	EC	0.25	LB A/A 1 % V/V	A A	17 a	5 a
5	Sulfentrazone Agridex	75	DG	0.15	LB A/A 1 % V/V	A A	14 a	7 a
6	Sulfentrazone Agridex	75	DG	0.25	LB A/A 1 % V/V	A A	14 a	6 a
7	V-10142 Agridex	75	DG	0.1	LB A/A 1 % V/V	A A	12 a	6 a
8	V-10142 Agridex	75	DG	0.2	LB A/A 1 % V/V	A A	6 a	7 a
9	V-10142 Agridex	75	DG	0.3	LB A/A 1 % V/V	A A	12 a	5 a
10	Flumioxazin Agridex	51	DF	0.09562	LB A/A 1 % V/V	A A	14 a	11 a
11	V-10142 Flumioxazin Agridex	75 51	DG DF	0.1 0.09562	LB A/A LB A/A	A A	16 a	7 a
12	V-10142 Flumioxazin Agridex	75 51	DG DF	0.2 0.09562	LB A/A LB A/A	A A	16 a	9 a
13	Oxyfluorfen Flumioxazin Agridex	2 51	EC DF	0.25 0.09562	LB A/A LB A/A	A A	5 a	10 a
	LSD (P=.05)						8.5	3.6
	Standard Deviation						6.0	2.5
	CV						51.48	35.88
	Grand Mean						11.6	7.02
	Bartlett's X2						17.679	14.133
	P(Bartlett's X2)						0.126	0.292
	Replicate F						0.434	3.802
	Replicate Prob(F)						0.7302	0.0191
	Treatment F						1.673	2.373
	Treatment Prob(F)						0.1150	0.0246

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.

Plant Name						Chile	Total weed count
Rating Date						11/Nov/2005	11/Nov/2005
Rating Data Type						Injury	Weed Count
Rating Unit						%	Count
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Appl Unit	Code	
						12	13
1	Hand-Weeded Control						5 a
2	Weedy Control						7 ab
3	Oxyfluorfen Agridex	2	EC	0.125 1 %	LB A/A V/V	A A	3 a
4	Oxyfluorfen Agridex	2	EC	0.25 1 %	LB A/A V/V	A A	1 c
5	Sulfentrazone Agridex	75	DG	0.15 1 %	LB A/A V/V	A A	9 a
6	Sulfentrazone Agridex	75	DG	0.25 1 %	LB A/A V/V	A A	2 c
7	V-10142 Agridex	75	DG	0.1 1 %	LB A/A V/V	A A	6 a
8	V-10142 Agridex	75	DG	0.2 1 %	LB A/A V/V	A A	9 a
9	V-10142 Agridex	75	DG	0.3 1 %	LB A/A V/V	A A	6 a
10	Flumioxazin Agridex	51	DF	0.09562 1 %	LB A/A V/V	A A	5 a
11	V-10142 Flumioxazin Agridex	75 51	DG DF	0.1 0.09562	LB A/A LB A/A	A A	1 c
12	V-10142 Flumioxazin Agridex	75 51	DG DF	0.2 0.09562	LB A/A LB A/A	A A	8 a
13	Oxyfluorfen Flumioxazin Agridex	2 51	EC DF	0.25 0.09562	LB A/A LB A/A	A A	0 c
LSD (P=.05)							3.9
Standard Deviation							2.7
CV							46.4
Grand Mean							75.0
Bartlett's X2							5.78
P(Bartlett's X2)							6.846
Replicate F							0.74
Replicate Prob(F)							1.671
Treatment F							0.715
Treatment Prob(F)							0.1922
							1.309
							8.587
							0.2597
							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.

CROP DESCRIPTION**Crop:** *Allium cepa*, Onions**Variety:** Centric**Planting Method:** Direct seeded**Depth, Unit:** 3/4 inch**Row Spacing, Unit:** 40 inch**Soil Moisture:** Good**Emergence Date:** 05/03/2005**Planting Date:** 04/21/2005**Rate, Unit:** 1 lb/A**Perennial Age, Unit:** N/A**Soil Temperature, Unit:** 69 F**SITE AND DESIGN****Plot Width, Unit:** 6.667 ft**Replications:** 4**Site Type:** Field**Study Design:** Randomized Complete Block**Previous Crops**

1. Forage Sorghum

Previous Pesticides

None

Year

2004

MAINTENANCE

No.	Date	Maintenance Treatment Name	Form Conc	Form Type	Rate	Rate Unit
1.	04/19/2005	Fertilized	11-52-00		500	lb/A
2.	04/20/2005	Beds shaped				
3.	04/21/2005	Onions planted			1	lb/A
4.	04/22/2005	Irrigated				
5.	04/28/2005	Irrigated				
6.	05/04/2005	Irrigated				
7.	05/19/2005	Application A				
8.	05/25/2005	Irrigated				
9.	05/31/2005	Hand-weeded controls				
10.	06/01/2005	Application B				
11.	06/07/2005	Hand-weeded controls				
12.	06/20/2005	Irrigated				
13.	07/01/2005	Disked under				

Soil Description**%Sand:** 44**% Silt:** 19**% Clay:** 37**%OM:** 2.1**pH:** 8.1**CEC:** 46.1 meq/100g**Texture:** Clay loam**Soil Name:** Belen Clay**MOISTURE CONDITIONS****Closest Weather Station:** Leyendecker Plant Sciences Headquarters **Distance:** 0.5 **Unit:** MI**Overall Moisture Conditions:** Good throughout the year

APPLICATION DESCRIPTION	A	B
Application Date:	05/19/2005	06/01/2005
Time of Day:	Morning	Morning
Application Method:	Spray	Spray
Application Timing:	1 leaf	2 leaf
Application Placement:	Overtop	Overtop
Applied By:	Justin	Justin
Air Temperature, Unit:	86 F	98
% Relative Humidity:	44	26
Wind Velocity, Unit:	1 MPH	2 MPH
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	70 F	80 F
Soil Moisture:	Dry	Dry
% Cloud Cover:	0	0

APPLICATION EQUIPMENT	A	B
Appl. Equipment:	Backpack	Backpack
Operating Pressure:	24	22
Pressure Unit:	PSI	PSI
Nozzle Type:	Teejet	Teejet
Nozzle Size:	11006	11004
Nozzle Spacing, Unit:	20 Inch	20 Inch
Nozzle/Row:	2	2
Band Width, Unit:	20 Inch	20 Inch
Boom Height, Unit:	18 Inch	18 Inch
Ground Speed, Unit:	2 MPH	2 MPH
Incorporation Equip.:	N/A	N/A
Hours to Incorp.:	N/A	N/A
Carrier:	Water	Water
Spray Volume:	40	40
Volume Unit:	Gal/Ac	Gal/Ac
Propellant:	CO2	CO2

TRIAL COMMENTS

ONIONS

Overall there was poor onion germination leading to a poor onion stand.

WEEDS

Palmer amaranth (*Amaranth palmeri*) population was very dense throughout the study.

The experiment was terminated early due to the heavy weed pressure and poor onion establishment.

APPLICATION COMMENTS

Date	By	Notes
06/01/2005	Justin	Plot 109 sprayed with wrong mixture. Mixed chemicals into a 2 L bottle instead of a 1 gal tank. Re-weighed and mixed as a new the replications.

tank for rest of

RATING COMMENTS

Each plot was blindly rated on a percent basis 0-100, where 0 was no injury or damage to the chile plant and 100 was complete necrosis or death. Weed control was rated using the same scale, where 0 was no weed control and 100 was weed free.

Plant Name						Onions	Palmer amaranth	Onions
Rating Date						31/May/2005	31/May/2005	8/Jun/2005
Rating Data Type						Injury	Control	Injury
Rating Unit						%	%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Appl Unit Code	1	2	3
1	Hand-Weeded Control					29 a	98 a	25 a
2	Weedy Control					0 a	0 e	1 a
3	Flumioxazin	51	DG	0.06375	lb ai/a A	0 a	0 e	0 a
4	Flumioxazin NIS	51	DG	0.06375	lb ai/a A 0.25 % v/v A	44 a	95 a	24 a
5	Oxyflurofen	2	EC	0.125	lb ai/a A	8 a	36 c	0 a
6	Oxyflurofen	4	EC	0.125	lb ai/a A	4 a	16 d	1 a
7	Oxyflurofen NIS	4	EC	0.125	lb ai/a A 0.25 % v/v A	15 a	76 b	1 a
8	Oxyflurofen	4	EC	0.1875	lb ai/a A	4 a	16 d	3 a
9	Flumioxazin	51	DG	0.06375	lb ai/a B			0 a
10	Flumioxazin NIS	51	DG	0.06375	lb ai/a B 0.25 % v/v B			14 a
11	Oxyflurofen	2	EC	0.25	lb ai/a B			3 a
12	Oxyflurofen	2	EC	0.125	lb ai/a B			0 a
13	Oxyflurofen Bromoxynil	2	EC	0.25	lb ai/a B 2 EC 0.375 lb ai/a B			4 a
14	Oxyflurofen	4	EC	0.125	lb ai/a B			1 a
15	Oxyflurofen	4	EC	0.25	lb ai/a B			0 a
16	Oxyflurofen NIS	4	EC	0.25	lb ai/a B 0.25 % v/v B			3 a
17	Oxyflurofen Bromoxynil	4	EC	0.25	lb ai/a B 2 EC 0.375 lb ai/a B			6 a
18	Pendimethalin	3.3	EC	0.825	lb ai/a B			1 a
19	Pendimethalin Bromoxynil	3.3	EC	0.825	lb ai/a B 2 EC 0.375 lb ai/a B			6 a
20	Pendimethalin Oxyflurofen	3.3	EC	0.825	lb ai/a B 2 EC 0.125 lb ai/a B			3 a
LSD (P=.05)						27.2	9.0	14.2
Standard Deviation						18.5	6.1	10.0
CV						144.42	14.54	210.71
Grand Mean						12.81	42.19	4.75
Bartlett's X2						30.67	6.335	91.349
P(Bartlett's X2)						0.001*	0.275	0.001*
Replicate F						3.611	0.083	2.421
Replicate Prob(F)						0.0302	0.9686	0.0753
Treatment F						2.898	181.364	2.211
Treatment Prob(F)						0.0276	0.0001	0.0111

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.

Plant Name						Palmer amaranth	Onions	Palmer amaranth
Rating Date						8/Jun/2005	15/Jun/2005	15/Jun/2005
Rating Data Type						Control	Injury	Control
Rating Unit						%	%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Appl Unit Code	4	5	6
1	Hand-Weeded Control					97 a	4 ab	98 a
2	Weedy Control					5 g	2 ab	4 e
3	Flumioxazin	51	DG	0.06375	lb ai/a A	4 g	1 b	3 e
4	Flumioxazin NIS	51	DG	0.06375 0.25	lb ai/a A % v/v A	90 a	4 ab	81 b
5	Oxyflurofen	2	EC	0.125	lb ai/a A	33 cde	3 ab	29 de
6	Oxyflurofen	4	EC	0.125	lb ai/a A	18 efg	3 ab	18 de
7	Oxyflurofen NIS	4	EC	0.125 0.25	lb ai/a A % v/v A	63 b	2 ab	65 bc
8	Oxyflurofen	4	EC	0.1875	lb ai/a A	14 fg	3 ab	13 de
9	Flumioxazin	51	DG	0.06375	lb ai/a B	8 fg	3 ab	6 e
10	Flumioxazin NIS	51	DG	0.06375 0.25	lb ai/a B % v/v B	56 b	9 a	60 c
11	Oxyflurofen	2	EC	0.25	lb ai/a B	16 efg	3 ab	8 e
12	Oxyflurofen	2	EC	0.125	lb ai/a B	16 efg	3 ab	13 de
13	Oxyflurofen Bromoxynil	2	EC	0.25	lb ai/a B	41 c	7 ab	38 d
14	Oxyflurofen	4	EC	0.125	lb ai/a B	9 fg	3 ab	4 e
15	Oxyflurofen	4	EC	0.25	lb ai/a B	10 fg	3 ab	6 e
16	Oxyflurofen NIS	4	EC	0.25 0.25	lb ai/a B % v/v B	25 def	5 ab	26 de
17	Oxyflurofen Bromoxynil	4	EC	0.25	lb ai/a B	34 cd	3 ab	28 de
18	Pendimethalin	3.3	EC	0.825	lb ai/a B	8 fg	5 ab	11 de
19	Pendimethalin Bromoxynil	3.3	EC	0.825	lb ai/a B	25 def	6 ab	24 de
20	Pendimethalin Oxyflurofen	3.3	EC	0.825	lb ai/a B	24 def	4 ab	18 de
LSD (P=.05)						10.8	3.7	16.3
Standard Deviation						7.6	2.6	11.6
CV						25.75	73.15	42.14
Grand Mean						29.64	3.55	27.43
Bartlett's X2						34.395	45.621	52.528
P(Bartlett's X2)						0.017*	0.001*	0.001*
Replicate F						5.905	0.252	0.322
Replicate Prob(F)						0.0014	0.8595	0.8096
Treatment F						50.533	1.782	22.556
Treatment Prob(F)						0.0001	0.0484	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.

Plant Name						Onions	Palmer amaranth
Rating Date						29/Jun/2005	29/Jun/2005
Rating Data Type						Injury	Control
Rating Unit						%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Appl Code	7	8
1	Hand-Weeded Control					3 ab	71 b
2	Weedy Control					0 b	0 e
3	Flumioxazin	51	DG	0.06375	lb ai/a A	0 b	0 e
4	Flumioxazin NIS	51	DG	0.06375	lb ai/a A 0.25 % v/v A	3 ab	90 a
5	Oxyflurofen	2	EC	0.125	lb ai/a A	0 b	8 de
6	Oxyflurofen	4	EC	0.125	lb ai/a A	1 b	6 de
7	Oxyflurofen NIS	4	EC	0.125	lb ai/a A 0.25 % v/v A	0 b	26 c
8	Oxyflurofen	4	EC	0.1875	lb ai/a A	0 b	0 e
9	Flumioxazin	51	DG	0.06375	lb ai/a B	0 b	0 e
10	Flumioxazin NIS	51	DG	0.06375	lb ai/a B 0.25 % v/v B	8 a	23 cd
11	Oxyflurofen	2	EC	0.25	lb ai/a B	0 b	1 e
12	Oxyflurofen	2	EC	0.125	lb ai/a B	1 b	3 e
13	Oxyflurofen Bromoxynil	2	EC	0.25	lb ai/a B	6 ab	13 de
14	Oxyflurofen	2	EC	0.375	lb ai/a B		
14	Oxyflurofen	4	EC	0.125	lb ai/a B	3 ab	0 e
15	Oxyflurofen	4	EC	0.25	lb ai/a B	1 b	0 e
16	Oxyflurofen NIS	4	EC	0.25	lb ai/a B 0.25 % v/v B	3 ab	5 e
17	Oxyflurofen Bromoxynil	4	EC	0.25	lb ai/a B	1 b	8 de
17	Oxyflurofen Bromoxynil	2	EC	0.375	lb ai/a B		
18	Pendimethalin	3.3	EC	0.825	lb ai/a B	4 ab	6 de
19	Pendimethalin Bromoxynil	3.3	EC	0.825	lb ai/a B	5 ab	4 e
19	Pendimethalin Bromoxynil	2	EC	0.375	lb ai/a B		
20	Pendimethalin	3.3	EC	0.825	lb ai/a B	3 ab	6 de
20	Pendimethalin Oxyflurofen	2	EC	0.125	lb ai/a B		
LSD (P=.05)						3.4	10.7
Standard Deviation						2.4	7.6
CV						120.31	56.33
Grand Mean						2.0	13.44
Bartlett's X2						3.79	36.967
P(Bartlett's X2)						0.987	0.001*
Replicate F						1.871	1.111
Replicate Prob(F)						0.1447	0.3522
Treatment F						3.341	41.136
Treatment Prob(F)						0.0002	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.

CROP DESCRIPTION

Crop 1: Cotton, American upland
Variety: DP 434 Roundup Ready
Soil Temperature: 72 F
Planting Method: Direct seeded
Row Spacing, Unit: 40 in
Soil Moisture: GOOD
Seed Bed: COARSE

Gossypium hirsutum
Description: Early season
Planting Date: 3/May/2005
Depth, Unit: 1.5 in
Harvested Length: 20 row feet
Harvest Date: 31/October/2005
Harvest Equipment: Hand picked

PLANT DESCRIPTION

Code: AMAPA *Amaranthus palmeri*
Common Name: Amaranth, Palmer

Code: ANVCR *Anoda cristata*
Common Name: Anoda, spurred

Code: PHYWR *Physalis wrightii*
Common Name: Groundcherry, Wright

Code: IPOSS *Ipomoea* sp.
Common Name: Morningglory species
Description: Tall, entireleaf, ivyleaf and red species

Code: SORHA *Sorghum halepense*
Common Name: Johnsongrass

SITE AND DESIGN

Plot Width, Unit: 6.67 FT
Plot Length, Unit: 25 FT
Replications: 4

Site Type: Field
Tillage Type: Conventional-till
Study Design: Randomized Complete Block

FIELD PREP/MAINTENANCE:

May 2, 2005 Field was laser leveled and fertilizer applied: 11-52-0 at 220 lbs/a + 21-0-0 at 125 lbs/acre

SOIL DESCRIPTION

% Sand: 44	% OM: 1.4	Texture: Sandy Loam Clay
% Silt: 19	pH: 8.1	Soil Name: Belen clay
% Clay: 37	CEC: 46.1	

MOISTURE CONDITIONS

Overall Moisture Conditions: good

IRRIGATION SCHEDULE:

	Date	Type
1.	11/May/2005	FURROW
2.	16/Jun/2005	FURROW
3.	8/Jul/2005	FURROW
4.	30/Aug/2005	FURROW

APPLICATION DESCRIPTION

	A	B	C	D	E
Application Date:	24/May/2005	27/May/2005	13/Jun/2005	16/Jun/2005	23/Jun/2005
Time of Day:	9:20 am	3:00 pm	9:40 am	6:46 am	8:30 am
Application Method:	Spray	Spray	Spray	Spray	Spray
Application Timing:	POST	POST	POST	POST	As needed
Application Placement:	Overtop	Overtop	Overtop	Overtop	Directed
Applied By:	Fiore, C	Fiore, C	Barron, S	Barron, S	Barron, S
Air Temperature, Unit:	82 F	86 F	87 F	82 F	83 F
% Relative Humidity:	39	NR	33	35	34
Wind Velocity, Unit:	2.4 mph	NR	1 mph	0 mph	5 mph
Soil Temperature, Unit:	78 F	76 F	79 F	NR	79 F
Soil Moisture:	Good	NR	Dry	Dry	Good
% Cloud Cover:	80	NR	NR	36	10

	F	G	H	I
Application Date:	1/Jul/2005	7/Jul/2005	19/Jul/2005	29/Jul/2005
Time of Day:	6:40 am	8:15 am	6:47 am	7:15 am
Application Method:	Spray	Spray	Spray	Spray
Application Timing:	As needed	POST	POST	LAYBY
Application Placement:	Directed	Directed	Directed	Directed
Applied By:	Barron, S	Barron, S	Barron, S	Barron, S
Air Temperature, Unit:	70 F	80 F	80 F	70 F
% Relative Humidity:	43	28	45	89
Wind Velocity, Unit:	0 mph	3 mph	5 mph	0 mph
Soil Temperature, Unit:	83 F	84 F	87	76 F
Soil Moisture:	Good	Dry	NR	Dry
% Cloud Cover:	40	0	25	50

CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code	COTTON	COTTON	COTTON	COTTON
Stage Scale Used:	COTYL	COTYL	3 TO 6"	4 TO 8"

	E	F	G	H
Crop 1 Code	COTTON	COTTON	COTTON	COTTON
Stage Scale Used:	6 TO 8"	10 TO 12"	1 TO 1.5'	NR

	I
Crop 1 Code	COTTON
Stage Scale Used:	NR

APPLICATION COMMENTS

Treatment D (Suprend) was applied over-the-top of the cotton rather than as a directed treatment.

APPLICATION EQUIPMENT

	A	B	C	D	E
Appl. Equipment:	CO2 backpack	CO2 backpack	CO2 backpack	CO2 backpack	CO2 backpack
Operating Pressure:	18	15	15	15	14
Pressure Unit:	PSI	PSI	PSI	PSI	PSI
Nozzle Type:	Teejet	Teejet	Teejet	Teejet	Teejet
Nozzle Size:	11002	11002	11002	11002	8002E
Nozzle Spacing, Unit:	20 in	20 in	20 in	20 in	20 in
Nozzles/Row:	2	2	2	2	3
Band Width, Unit:	20 in	20 in	20 in	20 in	20 in
Boom Length, Unit:	80 in	80 in	80 in	80 in	80 in
Boom Height, Unit:	18 in	18 in	18 in	18 in	14 in
Ground Speed, Unit:	2 mph	2 mph	2 mph	2 mph	2 mph
Carrier:	Water	Water	Water	Water	Water
Spray Volume:	16	16	16	16	150
Volume Unit:	GAL/A	GAL/A	GAL/A	GAL/A	L/ha
Propellant:	CO2	CO2	CO2	CO2	CO2
	F	G	H	I	
Appl. Equipment:	CO2 backpack	CO2 backpack	CO2 backpack	CO2 backpack	
Operating Pressure:	14	14	20	19	
Pressure Unit:	PSI	PSI	PSI	PSI	
Nozzle Type:	Teejet	Teejet	Teejet	Teejet	
Nozzle Size:	8002E	OC 02	OC 02	OC02	
Nozzle Spacing, Unit:	20 in	20 in	20 in	20 in	
Nozzles/Row:	3	2	2	2	
Band Width, Unit:	20 in	20 in	20 in	20 in	
Boom Length, Unit:	80 in	80 in	80 in	80 in	
Boom Height, Unit:	14 in	18 in	18 in	18 in	
Ground Speed, Unit:	2 mph	2 mph	2 mph	2 mph	
Carrier:	Water	Water	Water	Water	
Spray Volume:	16	16	16	16	
Volume Unit:	GAL/A	GAL/A	GAL/A	GAL/A	
Propellant:	CO2	CO2	CO2	CO2	

Plant Name							Cotton	Palmer amaranth	morningglory
Part Rated							SHOOT	SHOOT	SHOOT
Rating Date							7/Jun/2005	7/Jun/2005	7/Jun/2005
Rating Data Type							INJURY	CONTROL	CONTROL
Rating Unit							%	%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	1	2	3
1	Weedy Control						0 b	0 c	0 c
2	Hand-Weeded Control						0 b	100 a	100 a
3	Envoke Latron Ag-98	75	WG	0.0047	LB A/A A	A	13 a	98 a	90 a
				0.25	% V/V	A			
4	Envoke Latron Ag-98	75	WG	0.007	LB A/A A	A	10 a	89 b	93 a
				0.25	% V/V	A			
5	Touchdown Hitech Latron Ag-98	5	SL	.75	LB A/A B	B	0 b	100 a	97 a
				0.25	% V/V	B			
	Envoke Latron Ag-98	75	WG	0.0047	LB A/A C	C			
				0.25	% V/V	C			
6	Sequence Envoke Latron Ag-98	5.25	EW	1.63	LB A/A B	B	0 b	100 a	97 a
		75	WG	0.0047	LB A/A C	C			
				0.25	% V/V	C			
7	Sequence Envoke Latron Ag-98	5.25	EW	1.63	LB A/A B	B	0 b	100 a	97 a
		75	WG	0.007	LB A/A D	D			
				0.25	% V/V	D			
8	Touchdown Hitech Latron Ag-98	5	SL	.75	LB A/A B	B	3 b	100 a	98 a
				0.25	% V/V	B			
	Suprend Agri-Dex	80	WG	.80	LB A/A D	D			
				1.0	% V/V	D			
9	Touchdown Hitech Latron Ag-98	5	SL	.75	LB A/A B	B	0 b	100 a	95 a
				0.25	% V/V	B			
	Suprend Agri-Dex	80	WG	1.2	LB A/A D	D			
				1.0	% V/V	D			
10	Sequence Suprend Agri-Dex	5.25	EW	1.63	LB A/A B	B	0 b	100 a	93 a
		80	WG	.80	LB A/A D	D			
				1.0	% V/V	D			
11	Sequence Suprend Agri-Dex	5.25	EW	1.63	LB A/A B	B	0 b	100 a	93 a
		80	WG	1.2	LB A/A D	D			
				1.0	% V/V	D			
12	Touchdown Hitech Latron Ag-98	5	SL	.75	LB A/A B	B	0 b	100 a	93 a
				0.25	% V/V	B			
	Envoke Latron Ag-98	75	WG	0.0047	LB A/A D	D			
				0.25	% V/V	D			
	Suprend Agri-Dex	80	WG	.80	LB A/A G	G			
				1.0	% V/V	G			
13	Sequence Latron Ag-98	5.25	EW	1.63	LB A/A B	B	4 b	100 a	94 a
				0.25	% V/V	B			
	Envoke Latron Ag-98	75	WG	0.0047	LB A/A D	D			
				0.25	% V/V	D			
	Suprend Agri-Dex	80	WG	.80	LB A/A G	G			
				1.0	% V/V	G			
14	Envoke Latron Ag-98	75	WG	0.0047	LB A/A A	A	15 a	99 a	97 a
				0.25	% V/V	A			
	Suprend Agri-Dex	80	WG	.80	LB A/A D	D			
				1.0	% V/V	D			
15	Touchdown Hitech Latron Ag-98	5	SL	.75	LB A/A B	B	0 b	100 a	95 a
				0.25	% V/V	B			
	Touchdown Hitech Latron Ag-98	5	SL	.75	LB A/A DEFH	DEFH			
				0.25	% V/V	DEFH			

Plant Name						cotton	Palmer amaranth	morningglory	
Part Rated						SHOOT	SHOOT	SHOOT	
Rating Date						7/Jun/2005	7/Jun/2005	7/Jun/2005	
Rating Data Type						INJURY	CONTROL	CONTROL	
Rating Unit						%	%	%	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	1	2	3
16	Touchdown Hitech	5	SL	.75	LB A/A	B	1 b	100 a	97 a
	Latron Ag-98			0.25	% V/V	B			
	Touchdown Hitech	5	SL	.75	LB A/A	DEFH			
	Latron Ag-98			0.25	% V/V	DEFH			
	Suprend	80	WG	1	LB A/A	I			
	Agri-Dex			1.0	% V/V	I			
17	Staple	85	SP	0.064	LB A/A	A	1 b	99 a	83 a
	Latron Ag-98			0.25	% V/V	A			
18	Staple	85	SP	0.064	LB A/A	A	1 b	96 a	59 b
	Latron Ag-98			0.25	% V/V	A			
	Suprend	80	WG	1	LB A/A	D			
	Agri-Dex			1.0	% V/V	D			
LSD (P=.05)							5.0	4.7	15.8
Standard Deviation							3.5	3.3	11.2
CV							133.69	3.59	12.84
Grand Mean							2.64	93.33	87.15
Bartlett's X2							15.72	42.657	94.607
P(Bartlett's X2)							0.028*	0.001*	0.001*
Replicate F							3.757	1.617	5.239
Replicate Prob(F)							0.0163	0.1969	0.0031
Treatment F							7.201	196.390	17.786
Treatment Prob(F)							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.

Plant Name							Wright groundcherry	Johnsongrass	Cotton
Part Rated							SHOOT	SHOOT	SHOOT
Rating Date							7/Jun/2005	7/Jun/2005	22/Jun/2005
Rating Data Type							CONTROL	CONTROL	INJURY
Rating Unit							%	%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	4	5	6
1	Weedy Control						0 c	0 c	0 d
2	Hand-Weeded Control						100 a	100 a	0 d
3	Envoke Latron Ag-98	75	WG	0.0047	LB A/A A	A	100 ab	99 a	1 d
				0.25	% V/V A	A			
4	Envoke Latron Ag-98	75	WG	0.007	LB A/A A	A	99 b	100 a	0 d
				0.25	% V/V A	A			
5	Touchdown Hitech Latron Ag-98	5	SL	.75	LB A/A B	B	100 a	100 a	18 bc
				0.25	% V/V B	B			
	Envoke Latron Ag-98	75	WG	0.0047	LB A/A C	C			
				0.25	% V/V C	C			
6	Sequence Envoke Latron Ag-98	5.25	EW	1.63	LB A/A B	B	100 a	100 a	18 bc
		75	WG	0.0047	LB A/A C	C			
				0.25	% V/V C	C			
7	Sequence Envoke Latron Ag-98	5.25	EW	1.63	LB A/A B	B	100 a	100 a	8 d
		75	WG	0.007	LB A/A D	D			
				0.25	% V/V D	D			
8	Touchdown Hitech Latron Ag-98	5	SL	.75	LB A/A B	B	100 ab	100 a	24 b
				0.25	% V/V B	B			
	Suprend Agri-Dex	80	WG	.80	LB A/A D	D			
				1.0	% V/V D	D			
9	Touchdown Hitech Latron Ag-98	5	SL	.75	LB A/A B	B	100 a	100 a	28 b
				0.25	% V/V B	B			
	Suprend Agri-Dex	80	WG	1.2	LB A/A D	D			
				1.0	% V/V D	D			
10	Sequence Suprend Agri-Dex	5.25	EW	1.63	LB A/A B	B	100 a	100 a	23 b
		80	WG	.80	LB A/A D	D			
				1.0	% V/V D	D			
11	Sequence Suprend Agri-Dex	5.25	EW	1.63	LB A/A B	B	100 ab	100 a	26 b
		80	WG	1.2	LB A/A D	D			
				1.0	% V/V D	D			
12	Touchdown Hitech Latron Ag-98	5	SL	.75	LB A/A B	B	100 a	100 a	10 cd
				0.25	% V/V B	B			
	Envoke Latron Ag-98	75	WG	0.0047	LB A/A D	D			
				0.25	% V/V D	D			
	Suprend Agri-Dex	80	WG	.80	LB A/A G	G			
				1.0	% V/V G	G			
13	Sequence Latron Ag-98	5.25	EW	1.63	LB A/A B	B	100 ab	100 a	8 d
				0.25	% V/V B	B			
	Envoke Latron Ag-98	75	WG	0.0047	LB A/A D	D			
				0.25	% V/V D	D			
	Suprend Agri-Dex	80	WG	.80	LB A/A G	G			
				1.0	% V/V G	G			
14	Envoke Latron Ag-98	75	WG	0.0047	LB A/A A	A	100 ab	100 a	36 a
				0.25	% V/V A	A			
	Suprend Agri-Dex	80	WG	.80	LB A/A D	D			
				1.0	% V/V D	D			

Plant Name				Wright groundcherry	Johnsongrass	Cotton
Part Rated				SHOOT	SHOOT	SHOOT
Rating Date				7/Jun/2005	7/Jun/2005	22/Jun/2005
Rating Data Type				CONTROL	CONTROL	INJURY
Rating Unit				%	%	%
15 Touchdown Hitech	5 SL	.75 LB A/A	B	100 a	100 a	0 d
Latron Ag-98		0.25 % V/V	B			
Touchdown Hitech	5 SL	.75 LB A/A	DEFH	100 ab	100 a	1 d
Latron Ag-98		0.25 % V/V	DEFH			
Suprend	80 WG	1 LB A/A	I	100 a	75 a	0 d
Agri-Dex		1.0 % V/V	I			
17 Staple	85 SP	0.064 LB A/A	A	100 a	49 b	26 b
Latron Ag-98		0.25 % V/V	A			
Suprend	80 WG	1 LB A/A	D	100 a	49 b	26 b
Agri-Dex		1.0 % V/V	D			
LSD (P=.05)				0.5	24.6	6.8
Standard Deviation				0.4	17.4	4.8
CV				0.39	19.32	38.74
Grand Mean				94.31	90.11	12.5
Bartlett's X2				4.89	33.176	16.998
P(Bartlett's X2)				0.558	0.001*	0.15
Replicate F				3.643	1.744	1.659
Replicate Prob(F)				0.0186	0.1697	0.1876
Treatment F				16144.621	8.924	25.432
Treatment Prob(F)				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.

Plant Name							Palmer amaranth	morningglory	Wright groundcherry
Part Rated							SHOOT	SHOOT	SHOOT
Rating Date							22/Jun/2005	22/Jun/2005	22/Jun/2005
Rating Data Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	7	8	9
1	Weedy Control						0 d	0 b	0 c
2	Hand-Weeded Control						100 a	100 a	100 a
3	Envoke Latron Ag-98	75	WG	0.0047	LB A/A A % V/V A	A	95 ab	63 a	76 a
4	Envoke Latron Ag-98	75	WG	0.007	LB A/A A % V/V A	A	68 c	64 a	23 b
5	Touchdown Hitech Latron Ag-98 Envoke Latron Ag-98	5	SL	.75	LB A/A B % V/V B	B	100 a	98 a	100 a
		75	WG	0.0047	LB A/A C % V/V C	C			
6	Sequence Envoke Latron Ag-98	5.25	EW	1.63	LB A/A B % V/V C	B	100 a	99 a	100 a
		75	WG	0.0047	LB A/A C % V/V C	C			
7	Sequence Envoke Latron Ag-98	5.25	EW	1.63	LB A/A B % V/V D	B	100 a	89 a	100 a
		75	WG	0.007	LB A/A D % V/V D	D			
8	Touchdown Hitech Latron Ag-98 Suprend Agri-Dex	5	SL	.75	LB A/A B % V/V B	B	100 a	96 a	100 a
		80	WG	.80	LB A/A D % V/V D	D			
9	Touchdown Hitech Latron Ag-98 Suprend Agri-Dex	5	SL	.75	LB A/A B % V/V B	B	100 a	96 a	98 a
		80	WG	1.2	LB A/A D % V/V D	D			
10	Sequence Suprend Agri-Dex	5.25	EW	1.63	LB A/A B % V/V D	B	100 a	95 a	100 a
		80	WG	.80	LB A/A D % V/V D	D			
11	Sequence Suprend Agri-Dex	5.25	EW	1.63	LB A/A B % V/V D	B	100 a	95 a	99 a
		80	WG	1.2	LB A/A D % V/V D	D			
12	Touchdown Hitech Latron Ag-98 Envoke Latron Ag-98 Suprend Agri-Dex	5	SL	.75	LB A/A B % V/V B	B	100 a	95 a	100 a
		75	WG	0.0047	LB A/A D % V/V D	D			
		80	WG	.80	LB A/A G % V/V G	G			
13	Sequence Latron Ag-98 Envoke Latron Ag-98 Suprend Agri-Dex	5.25	EW	1.63	LB A/A B % V/V B	B	100 a	95 a	100 a
		75	WG	0.0047	LB A/A D % V/V D	D			
		80	WG	.80	LB A/A G % V/V G	G			
14	Envoke Latron Ag-98 Suprend Agri-Dex	75	WG	0.0047	LB A/A A % V/V A	A	98 a	96 a	96 a
		80	WG	.80	LB A/A D % V/V D	D			
15	Touchdown Hitech Latron Ag-98 Touchdown Hitech Latron Ag-98	5	SL	.75	LB A/A B % V/V B	B	100 a	90 a	95 a
		5	SL	.75	LB A/A DEFH % V/V DEFH	DEFH			

Plant Name						Palmer amaranth	morningglory	Wright groundcherry	
Part Rated						SHOOT	SHOOT	SHOOT	
Rating Date						22/Jun/2005	22/Jun/2005	22/Jun/2005	
Rating Data Type						CONTROL	CONTROL	CONTROL	
Rating Unit						%	%	%	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	7	8	9
16	Touchdown Hitech	5	SL	.75	LB A/A	B	100 a	93 a	93 a
	Latron Ag-98			0.25	% V/V	B			
	Touchdown Hitech	5	SL	.75	LB A/A	DEFH			
	Latron Ag-98			0.25	% V/V	DEFH			
	Suprend	80	WG	1	LB A/A	I			
	Agri-Dex			1.0	% V/V	I			
17	Staple	85	SP	0.064	LB A/A	A	89 b	56 a	91 a
	Latron Ag-98			0.25	% V/V	A			
18	Staple	85	SP	0.064	LB A/A	A	95 ab	94 a	99 a
	Latron Ag-98			0.25	% V/V	A			
	Suprend	80	WG	1	LB A/A	D			
	Agri-Dex			1.0	% V/V	D			
LSD (P=.05)							5.8	24.1	17.5
Standard Deviation							4.1	17.0	12.3
CV							4.48	20.27	14.17
Grand Mean							91.35	84.0	87.15
Bartlett's X2							22.712	84.023	46.858
P(Bartlett's X2)							0.001*	0.001*	0.001*
Replicate F							2.125	2.827	0.537
Replicate Prob(F)							0.1085	0.0477	0.6591
Treatment F							138.875	8.539	21.274
Treatment Prob(F)							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.

Plant Name							Cotton	Palmer amaranth
Part Rated							SHOOT	SHOOT
Rating Date							29/Jun/2005	29/Jun/2005
Rating Data Type							INJURY	CONTROL
Rating Unit							%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	10	11
1	Weedy Control						0 d	0 d
2	Hand-Weeded Control						0 d	100 a
3	Envoke Latron Ag-98	75	WG	0.0047	LB A/A A % V/V A	A	1 d	93 a
4	Envoke Latron Ag-98	75	WG	0.007	LB A/A A % V/V A	A	0 d	63 c
5	Touchdown Hitech Latron Ag-98 Envoke Latron Ag-98	5	SL	.75	LB A/A B % V/V B	B	9 cd	100 a
6	Sequence Envoke Latron Ag-98	5.25	EW	1.63	LB A/A B % V/V C	B	5 d	100 a
7	Sequence Envoke Latron Ag-98	5.25	EW	1.63	LB A/A B % V/V D	B	1 d	100 a
8	Touchdown Hitech Latron Ag-98 Suprend Agri-Dex	5	SL	.75	LB A/A B % V/V B	B	16 bc	99 a
9	Touchdown Hitech Latron Ag-98 Suprend Agri-Dex	80	WG	.80	LB A/A D % V/V D	D	21 b	100 a
10	Sequence Suprend Agri-Dex	5.25	EW	1.63	LB A/A B % V/V D	B	14 bc	100 a
11	Sequence Suprend Agri-Dex	80	WG	1.2	LB A/A D % V/V D	D	18 bc	100 a
12	Touchdown Hitech Latron Ag-98 Envoke Latron Ag-98 Suprend Agri-Dex	5	SL	.75	LB A/A B % V/V B	B	4 d	100 a
13	Sequence Latron Ag-98 Envoke Latron Ag-98 Suprend Agri-Dex	75	WG	0.0047	LB A/A D % V/V D	D	1 d	100 a
14	Envoke Latron Ag-98 Suprend Agri-Dex	80	WG	.80	LB A/A G % V/V G	G	33 a	95 a
15	Touchdown Hitech Latron Ag-98 Touchdown Hitech Latron Ag-98	5	SL	.75	LB A/A B % V/V B	B	0 d	100 a

Plant Name							Cotton	Palmer amaranth
Part Rated							SHOOT	SHOOT
Rating Date							29/Jun/2005	29/Jun/2005
Rating Data Type							INJURY	CONTROL
Rating Unit							%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	10	11
16	Touchdown Hitech	5	SL	.75	LB A/A	B	1 d	100 a
	Latron Ag-98			0.25	% V/V	B		
	Touchdown Hitech	5	SL	.75	LB A/A	DEFH		
	Latron Ag-98			0.25	% V/V	DEFH		
	Suprend	80	WG	1	LB A/A	I		
	Agri-Dex			1.0	% V/V	I		
17	Staple	85	SP	0.064	LB A/A	A	0 d	83 b
	Latron Ag-98			0.25	% V/V	A		
18	Staple	85	SP	0.064	LB A/A	A	21 b	92 a
	Latron Ag-98			0.25	% V/V	A		
	Suprend	80	WG	1	LB A/A	D		
	Agri-Dex			1.0	% V/V	D		
LSD (P=.05)							6.8	7.9
Standard Deviation							4.8	5.6
CV							59.41	6.19
Grand Mean							8.06	90.11
Bartlett's X2							22.044	58.473
P(Bartlett's X2)							0.037*	0.001*
Replicate F							1.738	1.589
Replicate Prob(F)							0.1708	0.2035
Treatment F							17.183	76.491
Treatment Prob(F)							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.

Plant Name							Morningglory	Wright groundcherry	Spurred anoda
Part Rated							SHOOT	SHOOT	SHOOT
Rating Date							29/Jun/2005	29/Jun/2005	29/Jun/2005
Rating Data Type							CONTROL	CONTROL	CONTROL
Rating Unit							%	%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	12	13	14
1	Weedy Control						0 c	0 c	0 b
2	Hand-Weeded Control						100 a	100 a	100 a
3	Envoke Latron Ag-98	75	WG	0.0047	LB A/A	A	73 a	81 a	93 a
				0.25	% V/V	A			
4	Envoke Latron Ag-98	75	WG	0.007	LB A/A	A	36 b	43 b	53 a
				0.25	% V/V	A			
5	Touchdown Hitech Latron Ag-98	5	SL	.75	LB A/A	B	99 a	100 a	100 a
				0.25	% V/V	B			
	Envoke Latron Ag-98	75	WG	0.0047	LB A/A	C			
				0.25	% V/V	C			
6	Sequence Envoke Latron Ag-98	5.25	EW	1.63	LB A/A	B	98 a	100 a	75 a
		75	WG	0.0047	LB A/A	C			
				0.25	% V/V	C			
7	Sequence Envoke Latron Ag-98	5.25	EW	1.63	LB A/A	B	94 a	92 a	74 a
		75	WG	0.007	LB A/A	D			
				0.25	% V/V	D			
8	Touchdown Hitech Latron Ag-98	5	SL	.75	LB A/A	B	93 a	95 a	96 a
				0.25	% V/V	B			
	Suprend Agri-Dex	80	WG	.80	LB A/A	D			
				1.0	% V/V	D			
9	Touchdown Hitech Latron Ag-98	5	SL	.75	LB A/A	B	94 a	91 a	96 a
				0.25	% V/V	B			
	Suprend Agri-Dex	80	WG	1.2	LB A/A	D			
				1.0	% V/V	D			
10	Sequence Suprend Agri-Dex	5.25	EW	1.63	LB A/A	B	86 a	95 a	70 a
		80	WG	.80	LB A/A	D			
				1.0	% V/V	D			
11	Sequence Suprend Agri-Dex	5.25	EW	1.63	LB A/A	B	90 a	96 a	90 a
		80	WG	1.2	LB A/A	D			
				1.0	% V/V	D			
12	Touchdown Hitech Latron Ag-98	5	SL	.75	LB A/A	B	96 a	99 a	97 a
				0.25	% V/V	B			
	Envoke Latron Ag-98	75	WG	0.0047	LB A/A	D			
				0.25	% V/V	D			
	Suprend Agri-Dex	80	WG	.80	LB A/A	G			
				1.0	% V/V	G			
13	Sequence Latron Ag-98	5.25	EW	1.63	LB A/A	B	97 a	100 a	98 a
				0.25	% V/V	B			
	Envoke Latron Ag-98	75	WG	0.0047	LB A/A	D			
				0.25	% V/V	D			
	Suprend Agri-Dex	80	WG	.80	LB A/A	G			
				1.0	% V/V	G			
14	Envoke Latron Ag-98	75	WG	0.0047	LB A/A	A	96 a	100 a	96 a
				0.25	% V/V	A			
	Suprend Agri-Dex	80	WG	.80	LB A/A	D			
				1.0	% V/V	D			
15	Touchdown Hitech Latron Ag-98	5	SL	.75	LB A/A	B	89 a	99 a	71 a
				0.25	% V/V	B			
	Touchdown Hitech Latron Ag-98	5	SL	.75	LB A/A	DEFH			
				0.25	% V/V	DEFH			

Plant Name						Morningglory	Wright groundcherry	Spurred anoda	
Part Rated						SHOOT	SHOOT	SHOOT	
Rating Date						29/Jun/2005	29/Jun/2005	29/Jun/2005	
Rating Data Type						CONTROL	CONTROL	CONTROL	
Rating Unit						%	%	%	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	12	13	14
16	Touchdown Hitech	5	SL	.75	LB A/A	B	93 a	98 a	96 a
	Latron Ag-98			0.25	% V/V	B			
	Touchdown Hitech	5	SL	.75	LB A/A	DEFH			
	Latron Ag-98			0.25	% V/V	DEFH			
	Suprend	80	WG	1	LB A/A	I			
	Agri-Dex			1.0	% V/V	I			
17	Staple	85	SP	0.064	LB A/A	A	40 b	84 a	99 a
	Latron Ag-98			0.25	% V/V	A			
18	Staple	85	SP	0.064	LB A/A	A	85 a	94 a	100 a
	Latron Ag-98			0.25	% V/V	A			
	Suprend	80	WG	1	LB A/A	D			
	Agri-Dex			1.0	% V/V	D			
LSD (P=.05)							22.5	11.9	32.3
Standard Deviation							15.9	8.4	22.8
CV							19.68	9.7	27.34
Grand Mean							80.9	86.93	83.54
Bartlett's X2							99.407	95.368	99.015
P(Bartlett's X2)							0.001*	0.001*	0.001*
Replicate F							2.361	0.377	3.545
Replicate Prob(F)							0.0822	0.7702	0.0208
Treatment F							11.821	36.730	4.801
Treatment Prob(F)							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.

Plant Name							Cotton	Palmer amaranth	morningglory
Part Rated							SHOOT	SHOOT	SHOOT
Rating Date							14/Jul/2005	14/Jul/2005	14/Jul/2005
Rating Data Type							INJURY	CONTROL	CONTROL
Rating Unit							%	%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	15	16	17
1	Weedy Control						0 b	0 c	0 d
2	Hand-Weeded Control						0 b	100 a	100 a
3	Envoke Latron Ag-98	75	WG	0.0047	LB A/A A 0.25 % V/V A	A	3 b	90 a	28 c
4	Envoke Latron Ag-98	75	WG	0.007	LB A/A A 0.25 % V/V A	A	0 b	49 b	45 bc
5	Touchdown Hitech Latron Ag-98 Envoke Latron Ag-98	5	SL	.75	LB A/A B 0.25 % V/V B	B	1 b	99 a	97 a
		75	WG	0.0047	LB A/A C 0.25 % V/V C	C			
6	Sequence Envoke Latron Ag-98	5.25	EW	1.63	LB A/A B 0.0047 LB A/A C 0.25 % V/V C	B	1 b	100 a	97 a
7	Sequence Envoke Latron Ag-98	5.25	EW	1.63	LB A/A B 0.007 LB A/A D 0.25 % V/V D	B	0 b	99 a	86 a
8	Touchdown Hitech Latron Ag-98 Suprend Agri-Dex	5	SL	.75	LB A/A B 0.25 % V/V B	B	6 b	98 a	84 a
		80	WG	.80	LB A/A D 1.0 % V/V D	D			
9	Touchdown Hitech Latron Ag-98 Suprend Agri-Dex	5	SL	.75	LB A/A B 0.25 % V/V B	B	11 b	98 a	88 a
		80	WG	1.2	LB A/A D 1.0 % V/V D	D			
10	Sequence Suprend Agri-Dex	5.25	EW	1.63	LB A/A B .80 LB A/A D 1.0 % V/V D	B	6 b	100 a	65 ab
11	Sequence Suprend Agri-Dex	5.25	EW	1.63	LB A/A B 1.2 LB A/A D 1.0 % V/V D	B	10 b	100 a	81 a
12	Touchdown Hitech Latron Ag-98 Envoke Latron Ag-98 Suprend Agri-Dex	5	SL	.75	LB A/A B 0.25 % V/V B	B	9 b	100 a	97 a
		75	WG	0.0047	LB A/A D 0.25 % V/V D	D			
		80	WG	.80	LB A/A G 1.0 % V/V G	G			
13	Sequence Latron Ag-98 Envoke Latron Ag-98 Suprend Agri-Dex	5.25	EW	1.63	LB A/A B 0.25 % V/V B	B	3 b	100 a	97 a
		75	WG	0.0047	LB A/A D 0.25 % V/V D	D			
		80	WG	.80	LB A/A G 1.0 % V/V G	G			

Plant Name							Cotton	Palmer amaranth	morningglory
Part Rated							SHOOT	SHOOT	SHOOT
Rating Date							14/Jul/2005	14/Jul/2005	14/Jul/2005
Rating Data Type							INJURY	CONTROL	CONTROL
Rating Unit							%	%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	15	16	17
14	Envoke	75	WG	0.0047	LB A/A	A	25 a	93 a	93 a
	Latron Ag-98			0.25	% V/V	A			
	Suprend	80	WG	.80	LB A/A	D			
	Agri-Dex			1.0	% V/V	D			
15	Touchdown Hitech	5	SL	.75	LB A/A	B	0 b	100 a	91 a
	Latron Ag-98			0.25	% V/V	B			
	Touchdown Hitech	5	SL	.75	LB A/A	DEFH			
	Latron Ag-98			0.25	% V/V	DEFH			
16	Touchdown Hitech	5	SL	.75	LB A/A	B	0 b	100 a	93 a
	Latron Ag-98			0.25	% V/V	B			
	Touchdown Hitech	5	SL	.75	LB A/A	DEFH			
	Latron Ag-98			0.25	% V/V	DEFH			
	Suprend	80	WG	1	LB A/A	I			
	Agri-Dex			1.0	% V/V	I			
17	Staple	85	SP	0.064	LB A/A	A	0 b	81 a	31 c
	Latron Ag-98			0.25	% V/V	A			
18	Staple	85	SP	0.064	LB A/A	A	11 b	88 a	75 a
	Latron Ag-98			0.25	% V/V	A			
	Suprend	80	WG	1	LB A/A	D			
	Agri-Dex			1.0	% V/V	D			
LSD (P=.05)							7.6	13.4	24.4
Standard Deviation							5.4	9.5	17.3
CV							112.64	10.71	23.09
Grand Mean							4.79	88.47	74.83
Bartlett's X2							21.319	94.459	74.835
P(Bartlett's X2)							0.019*	0.001*	0.001*
Replicate F							2.809	1.190	3.580
Replicate Prob(F)							0.0487	0.3229	0.0200
Treatment F							5.938	28.588	11.539
Treatment Prob(F)							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.

Plant Name							Wright groundcherry SHOOT 14/Jul/2005 CONTROL %	Spurred anoda SHOOT 14/Jul/2005 CONTROL %	Palmer amaranth SHOOT 16/Aug/2005 GROUNDCOVER %				
Part Rated	Rating Date	Rating Data Type	Rating Unit	Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	18	19	20
				1	Weedy Control						0 c	0 b	
				2	Hand-Weeded Control						100 a	100 a	25 bc
				3	Envoke Latron Ag-98	75	WG	0.0047 0.25	LB A/A % V/V	A A	40 b	98 a	21 bc
				4	Envoke Latron Ag-98	75	WG	0.007 0.25	LB A/A % V/V	A A	23 bc	98 a	61 a
				5	Touchdown Hitech Latron Ag-98 Envoke Latron Ag-98	5 75	SL WG	.75 0.0047 0.25	LB A/A % V/V LB A/A % V/V	B B C C	94 a	99 a	1 c
				6	Sequence Envoke Latron Ag-98	5.25 75	EW WG	1.63 0.0047 0.25	LB A/A LB A/A % V/V	B C C	95 a	98 a	4 c
				7	Sequence Envoke Latron Ag-98	5.25 75	EW WG	1.63 0.007 0.25	LB A/A LB A/A % V/V	B D D	74 a	70 a	1 c
				8	Touchdown Hitech Latron Ag-98 Suprend Agri-Dex	5 80	SL WG	.75 0.25 .80 1.0	LB A/A % V/V LB A/A % V/V	B B D D	83 a	99 a	4 c
				9	Touchdown Hitech Latron Ag-98 Suprend Agri-Dex	5 80	SL WG	.75 0.25 1.2 1.0	LB A/A % V/V LB A/A % V/V	B B D D	79 a	92 a	3 c
				10	Sequence Suprend Agri-Dex	5.25 80	EW WG	1.63 .80 1.0	LB A/A LB A/A % V/V	B D D	93 a	63 a	1 c
				11	Sequence Suprend Agri-Dex	5.25 80	EW WG	1.63 1.2 1.0	LB A/A LB A/A % V/V	B D D	91 a	88 a	0 c
				12	Touchdown Hitech Latron Ag-98 Envoke Latron Ag-98 Suprend Agri-Dex	5 75 80	SL WG WG	.75 0.0047 0.25 .80 1.0	LB A/A % V/V LB A/A % V/V LB A/A % V/V	B B D D G G	100 a	100 a	0 c
				13	Sequence Latron Ag-98 Envoke Latron Ag-98 Suprend Agri-Dex	5.25 75 80	EW WG WG	1.63 0.0047 0.25 .80 1.0	LB A/A % V/V LB A/A % V/V LB A/A % V/V	B B D D G G	100 a	98 a	0 c
				14	Envoke Latron Ag-98 Suprend Agri-Dex	75 80	WG WG	0.0047 0.25 .80 1.0	LB A/A % V/V LB A/A % V/V	A A D D	94 a	96 a	20 bc

Plant Name							Wright groundcherry	Spurred anoda	Palmer amaranth
Part Rated							SHOOT	SHOOT	SHOOT
Rating Date							14/Jul/2005	14/Jul/2005	16/Aug/2005
Rating Data Type							CONTROL	CONTROL	GROUNDCOVER
Rating Unit							%	%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	18	19	20
15	Touchdown Hitech Latron Ag-98	5	SL	.75	LB A/A	B	94 a	94 a	2 c
				0.25	% V/V	B			
	Touchdown Hitech Latron Ag-98	5	SL	.75	LB A/A	DEFH			
				0.25	% V/V	DEFH			
16	Touchdown Hitech Latron Ag-98	5	SL	.75	LB A/A	B	96 a	97 a	0 c
				0.25	% V/V	B			
	Touchdown Hitech Latron Ag-98	5	SL	.75	LB A/A	DEFH			
				0.25	% V/V	DEFH			
	Suprend Agri-Dex	80	WG	1	LB A/A	I			
				1.0	% V/V	I			
17	Staple Latron Ag-98	85	SP	0.064	LB A/A	A	38 b	95 a	52 ab
				0.25	% V/V	A			
18	Staple Latron Ag-98	85	SP	0.064	LB A/A	A	93 a	100 a	39 abc
				0.25	% V/V	A			
	Suprend Agri-Dex	80	WG	1	LB A/A	D			
				1.0	% V/V	D			
LSD (P=.05)							27.5	22.4	25.7
Standard Deviation							19.5	15.9	18.0
CV							25.35	18.05	130.98
Grand Mean							76.81	87.85	13.74
Bartlett's X2							85.223	99.115	73.608
P(Bartlett's X2)							0.001*	0.001*	0.001*
Replicate F							1.081	0.916	0.903
Replicate Prob(F)							0.3653	0.4400	0.4467
Treatment F							9.699	9.327	4.844
Treatment Prob(F)							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.

Plant Name							morningglory	Wright groundcherry
Part Rated							SHOOT	SHOOT
Rating Date							16/Aug/2005	16/Aug/2005
Rating Data Type							GROUNDCOVER	GROUNDCOVER
Rating Unit							%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	21	22
1	Weedy Control							
2	Hand-Weeded Control						25 ab	25 a
3	Envoke Latron Ag-98	75	WG	0.0047	LB A/A A 0.25 % V/V A	A	58 a	21 a
4	Envoke Latron Ag-98	75	WG	0.007	LB A/A A 0.25 % V/V A	A	41 ab	11 a
5	Touchdown Hitech Latron Ag-98 Envoke Latron Ag-98	5	SL	.75	LB A/A B 0.25 % V/V B	B	4 b	5 a
		75	WG	0.0047	LB A/A C 0.25 % V/V C	C		
6	Sequence Envoke Latron Ag-98	5.25	EW	1.63	LB A/A B 0.0047 LB A/A C 0.25 % V/V C	B	4 b	4 a
7	Sequence Envoke Latron Ag-98	5.25	EW	1.63	LB A/A B 0.007 LB A/A D 0.25 % V/V D	B	13 ab	13 a
8	Touchdown Hitech Latron Ag-98 Suprend Agri-Dex	5	SL	.75	LB A/A B 0.25 % V/V B	B	28 ab	21 a
		80	WG	.80	LB A/A D 1.0 % V/V D	D		
9	Touchdown Hitech Latron Ag-98 Suprend Agri-Dex	5	SL	.75	LB A/A B 0.25 % V/V B	B	20 ab	33 a
		80	WG	1.2	LB A/A D 1.0 % V/V D	D		
10	Sequence Suprend Agri-Dex	5.25	EW	1.63	LB A/A B .80 LB A/A D 1.0 % V/V D	B	35 ab	10 a
11	Sequence Suprend Agri-Dex	5.25	EW	1.63	LB A/A B 1.2 LB A/A D 1.0 % V/V D	B	29 ab	8 a
12	Touchdown Hitech Latron Ag-98 Envoke Latron Ag-98 Suprend Agri-Dex	5	SL	.75	LB A/A B 0.25 % V/V B	B	0 b	1 a
		75	WG	0.0047	LB A/A D 0.25 % V/V D	D		
		80	WG	.80	LB A/A G 1.0 % V/V G	G		
13	Sequence Latron Ag-98 Envoke Latron Ag-98 Suprend Agri-Dex	5.25	EW	1.63	LB A/A B 0.25 % V/V B	B	0 b	0 a
		75	WG	0.0047	LB A/A D 0.25 % V/V D	D		
		80	WG	.80	LB A/A G 1.0 % V/V G	G		
14	Envoke Latron Ag-98 Suprend Agri-Dex	75	WG	0.0047	LB A/A A 0.25 % V/V A	A	19 ab	10 a
		80	WG	.80	LB A/A D 1.0 % V/V D	D		

Plant Name							morningglory	Wright groundcherry
Part Rated							SHOOT	SHOOT
Rating Date							16/Aug/2005	16/Aug/2005
Rating Data Type							GROUNDCOVER	GROUNDCOVER
Rating Unit							%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	21	22
15	Touchdown Hitech	5	SL	.75	LB A/A	B	7 b	3 a
	Latron Ag-98			0.25	% V/V	B		
	Touchdown Hitech	5	SL	.75	LB A/A	DEFH		
	Latron Ag-98			0.25	% V/V	DEFH		
16	Touchdown Hitech	5	SL	.75	LB A/A	B	4 b	0 a
	Latron Ag-98			0.25	% V/V	B		
	Touchdown Hitech	5	SL	.75	LB A/A	DEFH		
	Latron Ag-98			0.25	% V/V	DEFH		
	Suprend	80	WG	1	LB A/A	I		
	Agri-Dex			1.0	% V/V	I		
17	Staple	85	SP	0.064	LB A/A	A	35 ab	39 a
	Latron Ag-98			0.25	% V/V	A		
18	Staple	85	SP	0.064	LB A/A	A	43 ab	9 a
	Latron Ag-98			0.25	% V/V	A		
	Suprend	80	WG	1	LB A/A	D		
	Agri-Dex			1.0	% V/V	D		
LSD (P=.05)							29.0	25.6
Standard Deviation							20.3	17.9
CV							94.98	144.38
Grand Mean							21.34	12.41
Bartlett's X2							64.38	72.075
P(Bartlett's X2)							0.001*	0.001*
Replicate F							7.447	0.480
Replicate Prob(F)							0.0003	0.6977
Treatment F							2.880	1.661
Treatment Prob(F)							0.0024	0.0887

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.

Plant Name Part Rated Rating Date Rating Data Type Rating Unit							Spurred anoda SHOOT 16/Aug/2005 GROUNDCOVER %	BOLL HARVEST 31/Oct/2005 YIELD LB/ACRE
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	23	24
1	Weedy Control						0 a	228 e
2	Hand-Weeded Control						25 a	2181 ab
3	Envoke Latron Ag-98	75	WG	0.0047	LB A/A	A	4 a	734 de
				0.25	% V/V	A		
4	Envoke Latron Ag-98	75	WG	0.007	LB A/A	A	0 a	331 e
				0.25	% V/V	A		
5	Touchdown Hitech Latron Ag-98	5	SL	.75	LB A/A	B	0 a	2095 ab
				0.25	% V/V	B		
	Envoke Latron Ag-98	75	WG	0.0047	LB A/A	C		
				0.25	% V/V	C		
6	Sequence Envoke Latron Ag-98	5.25	EW	1.63	LB A/A	B	1 a	2424 a
		75	WG	0.0047	LB A/A	C		
				0.25	% V/V	C		
7	Sequence Envoke Latron Ag-98	5.25	EW	1.63	LB A/A	B	11 a	2092 ab
		75	WG	0.007	LB A/A	D		
				0.25	% V/V	D		
8	Touchdown Hitech Latron Ag-98	5	SL	.75	LB A/A	B	0 a	1464 a-d
				0.25	% V/V	B		
	Suprend Agri-Dex	80	WG	.80	LB A/A	D		
				1.0	% V/V	D		
9	Touchdown Hitech Latron Ag-98	5	SL	.75	LB A/A	B	8 a	1665 a-d
				0.25	% V/V	B		
	Suprend Agri-Dex	80	WG	1.2	LB A/A	D		
				1.0	% V/V	D		
10	Sequence Suprend Agri-Dex	5.25	EW	1.63	LB A/A	B	8 a	1425 a-d
		80	WG	.80	LB A/A	D		
				1.0	% V/V	D		
11	Sequence Suprend Agri-Dex	5.25	EW	1.63	LB A/A	B	3 a	1853 abc
		80	WG	1.2	LB A/A	D		
				1.0	% V/V	D		
12	Touchdown Hitech Latron Ag-98	5	SL	.75	LB A/A	B	0 a	2577 a
				0.25	% V/V	B		
	Envoke Latron Ag-98	75	WG	0.0047	LB A/A	D		
				0.25	% V/V	D		
	Suprend Agri-Dex	80	WG	.80	LB A/A	G		
				1.0	% V/V	G		
13	Sequence Latron Ag-98	5.25	EW	1.63	LB A/A	B	0 a	1901 abc
				0.25	% V/V	B		
	Envoke Latron Ag-98	75	WG	0.0047	LB A/A	D		
				0.25	% V/V	D		
	Suprend Agri-Dex	80	WG	.80	LB A/A	G		
				1.0	% V/V	G		
14	Envoke Latron Ag-98	75	WG	0.0047	LB A/A	A	1 a	1421 a-d
				0.25	% V/V	A		
	Suprend Agri-Dex	80	WG	.80	LB A/A	D		
				1.0	% V/V	D		

Plant Name							Spurred anoda	
Crop Name								
Part Rated							SHOOT	BOLHAV
Rating Date							16/Aug/2005	31/Oct/2005
Rating Data Type							GROUNDCOVER	YIELD
Rating Unit							%	LB/ACRE
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	23	24
15	Touchdown Hitech	5	SL	.75	LB A/A	B	0 a	2378 a
	Latron Ag-98			0.25	% V/V	B		
	Touchdown Hitech	5	SL	.75	LB A/A	DEFH		
	Latron Ag-98			0.25	% V/V	DEFH		
16	Touchdown Hitech	5	SL	.75	LB A/A	B	0 a	2222 ab
	Latron Ag-98			0.25	% V/V	B		
	Touchdown Hitech	5	SL	.75	LB A/A	DEFH		
	Latron Ag-98			0.25	% V/V	DEFH		
	Suprend	80	WG	1	LB A/A	I		
	Agri-Dex			1.0	% V/V	I		
17	Staple	85	SP	0.064	LB A/A	A	1 a	837 cde
	Latron Ag-98			0.25	% V/V	A		
18	Staple	85	SP	0.064	LB A/A	A	0 a	1159 b-e
	Latron Ag-98			0.25	% V/V	A		
	Suprend	80	WG	1	LB A/A	D		
	Agri-Dex			1.0	% V/V	D		
LSD (P=.05)							20.2	695.0
Standard Deviation							14.1	416.9
CV							413.01	25.89
Grand Mean							3.42	
Bartlett's X2							105.259	11.086
P(Bartlett's X2)							0.001*	0.852
Replicate F							0.504	14.935
Replicate Prob(F)							0.6815	0.0001
Treatment F							0.801	8.841
Treatment Prob(F)							0.6832	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.

Comments: GROUNDCOVER % for the 16/Aug/2005 rating date is the percent of the plot covered by species being rated.

Trial ID: Pasture Study **Broadleaf weed management in irrigated pasture.**

CROP DESCRIPTION

Crop: Common bermudagrass *Cynodon dactylon*

Perennial Age, Unit: > 1 year

Soil Moisture: Good

SITE AND DESIGN

Plot Width, Unit: 10 ft

Replications: 4

Site Type: Irrigated pasture

Study Design: Randomized Complete Block

Previous Crops

1. None

Previous Pesticides

None

Year

2004

MOISTURE CONDITIONS

Closest Weather Station: Leyendecker Plant Sciences Headquarters **Distance:** 2 MI

Overall Moisture Conditions: Good throughout the year

APPLICATION DESCRIPTION

A

Application Date: 6/24/2005

Time of Day: Morning

Application Method: Spray

Application Timing: POST

Application Placement: Overtop

Applied By: Justin

Air Temperature, Unit: 94

% Relative Humidity: 44

Wind Velocity, MPH: 1

Dew Presence (Y/N): N

Soil Temperature, Unit: 68

Soil Moisture: Moist

% Cloud Cover: 75

APPLICATION EQUIPMENT

A

Appl. Equipment: Backpack

Operating Pressure: 20

Pressure Unit: PSI

Nozzle Type: Teejet

Nozzle Size: 11001

Nozzle Spacing, Unit: 20 Inch

Nozzle/Row: 2

Band Width, Unit: 20 Inch

Boom Height, Unit: 18 Inch

Ground Speed, Unit: 2 MPH

Incorporation Equip.: N/A

Hours to Incorp.: N/A

Carrier: Water

Spray Volume: 15

Volume Unit: Gal/Ac

Propellant: CO2

Plant Name				Silverleaf nightshade	Common lambsquarters
Rating Date				8/Jul/2005	8/Jul/2005
Rating Data Type				Control	Control
Rating Unit				%	%
Trt No.	Treatment Name	Form Type	Rate Unit	1	2
1	NUP 2F 02 NIS	EC	25 FL OZ/A 0.5 % V/V	96 a	95 a
2	NUP 2F 02 NIS	EC	51 FL OZ/A 0.5 % V/V	97 a	95 a
3	AF 300 NIS	EC	40 FL OZ/A 0.5 % V/V	100 a	90 a
4	AF 300 NIS	EC	80 FL OZ/A 0.5 % V/V	98 a	93 a
5	NUP 12J 04 NIS	EC	25 FL OZ/A 0.5 % V/V	95 a	83 a
6	NUP 12J 04 NIS	EC	51 FL OZ/A 0.5 % V/V	99 a	80 a
7	NUP 12K 04 NIS	EC	25 FL OZ/A 0.5 % V/V	88 a	50 ab
8	NUP 12K 04 NIS	EC	51 FL OZ/A 0.5 % V/V	76 a	75 a
9	NUP 1A 05 NIS	EC	25 FL OZ/A 0.5 % V/V	100 a	77 a
10	NUP 1A 05 NIS	EC	51 FL OZ/A 0.5 % V/V	95 a	85 a
11	NUP 1B 05 NIS	EC	25 FL OZ/A 0.5 % V/V	70 a	53 ab
12	NUP 1B 05 NIS	EC	51 FL OZ/A 0.5 % V/V	88 a	83 a
13	NUP 12C 04 NIS	EC	25 FL OZ/A 0.5 % V/V	99 a	83 a
14	NUP 12C 04 NIS	EC	51 FL OZ/A 0.5 % V/V	100 a	20 bc
15	NUP 1E 05 NIS	EC	40 FL OZ/A 0.5 % V/V	98 a	50 ab
16	NUP 1E 05 NIS	EC	80 FL OZ/A 0.5 % V/V	99 a	82 a
17	Grazon P+D NIS	EC	48 FL OZ/A 0.5 % V/V	100 a	95 a
18	Untreated Check			0 b	0 c
LSD (P=.05)				26.8	29.3
Standard Deviation				15.9	16.8
CV				17.89	23.54
Grand Mean				88.73	71.48
Bartlett's X2				31.995	11.84
P(Bartlett's X2)				0.001*	0.158
Replicate F				0.369	0.356
Replicate Prob(F)				0.6956	0.7063
Treatment F				6.701	7.644
Treatment Prob(F)				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.

Plant Name			Burmudagrass	Burmudagrass	Silverleaf nightshade
Rating Date			8/Jul/2005	15/Jul/2005	15/Jul/2005
Rating Data Type			Injury	Injury	Control
Rating Unit			%	%	%
Trt No.	Treatment Name	Form Type	Rate	Unit	
			4	5	6
1	NUP 2F 02 NIS	EC	25 0.5	FL OZ/A % V/V	0 a 0 a 90 a
2	NUP 2F 02 NIS	EC	51 0.5	FL OZ/A % V/V	0 a 0 a 90 a
3	AF 300 NIS	EC	40 0.5	FL OZ/A % V/V	0 a 0 a 97 a
4	AF 300 NIS	EC	80 0.5	FL OZ/A % V/V	0 a 0 a 68 a
5	NUP 12J 04 NIS	EC	25 0.5	FL OZ/A % V/V	0 a 0 a 98 a
6	NUP 12J 04 NIS	EC	51 0.5	FL OZ/A % V/V	0 a 0 a 100 a
7	NUP 12K 04 NIS	EC	25 0.5	FL OZ/A % V/V	0 a 0 a 95 a
8	NUP 12K 04 NIS	EC	51 0.5	FL OZ/A % V/V	0 a 0 a 95 a
9	NUP 1A 05 NIS	EC	25 0.5	FL OZ/A % V/V	0 a 0 a 100 a
10	NUP 1A 05 NIS	EC	51 0.5	FL OZ/A % V/V	0 a 0 a 98 a
11	NUP 1B 05 NIS	EC	25 0.5	FL OZ/A % V/V	0 a 0 a 90 a
12	NUP 1B 05 NIS	EC	51 0.5	FL OZ/A % V/V	0 a 0 a 93 a
13	NUP 12C 04 NIS	EC	25 0.5	FL OZ/A % V/V	0 a 0 a -
14	NUP 12C 04 NIS	EC	51 0.5	FL OZ/A % V/V	0 a 0 a 94 a
15	NUP 1E 05 NIS	EC	40 0.5	FL OZ/A % V/V	0 a 0 a 95 a
16	NUP 1E 05 NIS	EC	80 0.5	FL OZ/A % V/V	0 a 0 a 50 a
17	Grazon P+D NIS	EC	48 0.5	FL OZ/A % V/V	0 a 0 a 100 a
18	Untreated Check				0 a 0 a 33 a
LSD (P=.05)			0.0	0.0	51.8
Standard Deviation			0.0	0.0	30.4
CV			0.0	0.0	34.79
Grand Mean			0.0	0.0	87.45
Bartlett's X2			0.0	0.0	30.143
P(Bartlett's X2)			.	.	0.002*
Replicate F			0.000	0.000	0.016
Replicate Prob(F)			1.0000	1.0000	0.9839
Treatment F			0.000	0.000	1.165
Treatment Prob(F)			1.0000	1.0000	0.3687

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.

Plant Name				Common lambsquarters	Silverleaf nightshade	Common lambsquarters
Rating Date				15/Jul/2005	5/Aug/2005	5/Aug/2005
Rating Data Type				Control	Control	Control
Rating Unit				%	%	%
Trt No.	Treatment Name	Form Type	Rate Rate Unit	8	9	10
1	NUP 2F 02 NIS	EC	25 FL OZ/A 0.5 % V/V	100 a	60 a	100 a
2	NUP 2F 02 NIS	EC	51 FL OZ/A 0.5 % V/V	98 a	99 a	100 a
3	AF 300 NIS	EC	40 FL OZ/A 0.5 % V/V	90 a	80 a	100 a
4	AF 300 NIS	EC	80 FL OZ/A 0.5 % V/V	95 a	87 a	99 a
5	NUP 12J 04 NIS	EC	25 FL OZ/A 0.5 % V/V	95 a	57 a	99 a
6	NUP 12J 04 NIS	EC	51 FL OZ/A 0.5 % V/V	90 a	90 a	99 a
7	NUP 12K 04 NIS	EC	25 FL OZ/A 0.5 % V/V	90 a	86 a	100 a
8	NUP 12K 04 NIS	EC	51 FL OZ/A 0.5 % V/V	90 a	87 a	100 a
9	NUP 1A 05 NIS	EC	25 FL OZ/A 0.5 % V/V	93 a	97 a	100 a
10	NUP 1A 05 NIS	EC	51 FL OZ/A 0.5 % V/V	100 a	90 a	100 a
11	NUP 1B 05 NIS	EC	25 FL OZ/A 0.5 % V/V	62 a	96 a	100 a
12	NUP 1B 05 NIS	EC	51 FL OZ/A 0.5 % V/V	95 a	100 a	100 a
13	NUP 12C 04 NIS	EC	25 FL OZ/A 0.5 % V/V	98 a	93 a	100 a
14	NUP 12C 04 NIS	EC	51 FL OZ/A 0.5 % V/V	-	82 a	100 a
15	NUP 1E 05 NIS	EC	40 FL OZ/A 0.5 % V/V	93 a	66 a	99 a
16	NUP 1E 05 NIS	EC	80 FL OZ/A 0.5 % V/V	63 a	73 a	100 a
17	Grazon P+D NIS	EC	48 FL OZ/A 0.5 % V/V	90 a	92 a	100 a
18	Untreated Check			0 a	30 a	33 b
LSD (P=.05)				53.6	45.2	22.7
Standard Deviation				30.1	27.1	13.6
CV				35.49	33.33	14.13
Grand Mean				84.83	81.35	96.15
Bartlett's X2				22.942	49.14	44.535
P(Bartlett's X2)				0.002*	0.001*	0.001*
Replicate F				0.634	2.495	1.085
Replicate Prob(F)				0.5471	0.0975	0.3493
Treatment F				1.983	1.345	3.995
Treatment Prob(F)				0.1174	0.2250	0.0003

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.

Plant Name				Bermudagrass	Common Lambsquarter	Silverleaf nightshade
Rating Date				26/Aug/2005	26/Aug/2005	26/Aug/2005
Rating Data Type				Cover	Cover	Cover
Rating Unit				%	%	%
Trt No.	Treatment Name	Form Type	Rate Rate Unit	11	12	13
1	NUP 2F 02 NIS	EC	25 FL OZ/A 0.5 % V/V	92 a	0 a	8 a
2	NUP 2F 02 NIS	EC	51 FL OZ/A 0.5 % V/V	95 a	0 a	5 a
3	AF 300 NIS	EC	40 FL OZ/A 0.5 % V/V	95 a	0 a	5 a
4	AF 300 NIS	EC	80 FL OZ/A 0.5 % V/V	97 a	0 a	3 a
5	NUP 12J 04 NIS	EC	25 FL OZ/A 0.5 % V/V	93 a	0 a	7 a
6	NUP 12J 04 NIS	EC	51 FL OZ/A 0.5 % V/V	94 a	0 a	6 a
7	NUP 12K 04 NIS	EC	25 FL OZ/A 0.5 % V/V	97 a	0 a	3 a
8	NUP 12K 04 NIS	EC	51 FL OZ/A 0.5 % V/V	96 a	0 a	4 a
9	NUP 1A 05 NIS	EC	25 FL OZ/A 0.5 % V/V	98 a	0 a	2 a
10	NUP 1A 05 NIS	EC	51 FL OZ/A 0.5 % V/V	97 a	0 a	3 a
11	NUP 1B 05 NIS	EC	25 FL OZ/A 0.5 % V/V	99 a	0 a	1 a
12	NUP 1B 05 NIS	EC	51 FL OZ/A 0.5 % V/V	98 a	0 a	2 a
13	NUP 12C 04 NIS	EC	25 FL OZ/A 0.5 % V/V	99 a	0 a	1 a
14	NUP 12C 04 NIS	EC	51 FL OZ/A 0.5 % V/V	96 a	0 a	4 a
15	NUP 1E 05 NIS	EC	40 FL OZ/A 0.5 % V/V	94 a	0 a	6 a
16	NUP 1E 05 NIS	EC	80 FL OZ/A 0.5 % V/V	90 a	0 a	10 a
17	Grazon P+D NIS	EC	48 FL OZ/A 0.5 % V/V	96 a	0 a	4 a
18	Untreated Check			91 a	4 a	8 a
LSD (P=.05)				5.8	2.1	5.9
Standard Deviation				3.5	1.2	3.5
CV				3.66	561.25	77.74
Grand Mean				95.43	0.22	4.54
Bartlett's X2				25.984	0.0	26.441
P(Bartlett's X2)				0.075	.	0.067
Replicate F				21.783	1.000	20.674
Replicate Prob(F)				0.0001	0.3784	0.0001
Treatment F				1.689	1.714	1.580
Treatment Prob(F)				0.0947	0.0888	0.1255

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.

RINCON TRIAL INFORMATION
MARATON Agricultural and Environmental Consulting
Experimental Farm

2004 HATCH RAINFALL DATA
HATCH NEW MEXICO

Elevation 4064.961 Feet
Latitude: 32° 41' 0" N Longitude: 107° 11' 0" W

Rainfall in inches

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
1	0	0	0	0	0	0	0	0	0.04	0	0
2	0	0	0	0	0	0	0	0	0.03	0	0
3	0	0	0	0	0	0	0	0	0.01	0	0
4	0	0.09	0	0	0	0	0	0	0	0.1	0
5	0	0.04	0.13	0	0	0	0	0	0.02	0	0
6	0	0.03	0.02	0	0	0	0	0	0	0.01	0
7	0	0	0	0	0	0	0	0.04	0	0	0
8	0	0	0	0	0	0	0	0	0	0.01	0
9	0	0	0	0	0	0	0	0.02	0	0	0
10	0	0.03	0	0	0	0	0	0	0	0	0
11	0	0.06	0	0	0	0	0	0	0	0	0
12	0	0.08	0	0	0	0	0	0.45	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0.01	0	0	0
15	0	0	0.02	0	0.12	0	0	0	0	0.25	0
16	0	0	0	0.02	0	0	0	0	0	0.01	0
17	0	0	0	0	0	0	0	0	0	0	0
18	0	0.01	0	0	0	0	0	0.22	0	0	0
19	0	0.04	0	0	0	0	0	0	0.05	0	0
20	0	0	0	0	0	0	0	0	0.22	0	0
21	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0
23	0	0.04	0	0	0	0	0	0	0	0	0
24	0	0.08	0	0.11	0	0	0	0	0	0	0
25	0	0	0	0.01	0	0	0	0	0	0	0
26	0	0.01	0	0	0.45	0	0	0.28	0	0	0
27	0	0	0	0	0	0	0.3	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0
29	0		0	0	0	0	0	0	0	0	0
30	0		0	0	0	0	0	0	0	0	0
31	0		0		0		0	0		0	
Total	0	0.51	0.17	0.14	0.57	0	0.3	1.02	0.37	0.38	0

CROP DESCRIPTION

Crop: CPSAA *Capsicum annuum* Chile
Variety: Big Jim
Planting Method: Direct seeded
Depth, Unit: 0.5 inch
Row Spacing, Unit: 40 inch
Soil Moisture: Good
Emergence Date: 05/05/2005

B BCH Scale: BPER
Planting Date: 04/21/2005
Rate, Unit: 5 lb/A
Perennial Age, Unit: N/A
Soil Temperature, Unit: 70 F

SITE AND DESIGN

Plot Width, Unit: 6.667 ft
Replications: 4

Site Type: Field
Study Design: Randomized Complete Block

Previous Crops

1. Cotton
2. Onions

Previous Pesticides

glyphosate, dimethoate,
 trifluralin, prometryn
 iprodione, Prowl

Year

2004
 2003

MAINTENANCE

No.	Date	Maintenance Treatment Name	Form Conc	Form Type	Rate	Rate Unit
1.	03/17/2005	Fertilize	11-52-00		600	lb/Acre
2.	04/04/2005	Irrigate				
3.	05/04/2005	Command (clomazone)	3	ME	0.8	lb ai/Acre
4.	05/04/2005	Cultivate				
5.	05/04/2005	Drag cap				
6.	05/07/2005	Irrigate				
7.	05/19/2005	Irrigate				
8.	05/25/2005	Fury (zeta-cypermethrin)	1.5	EW	0.05	lb ai/Acre
9.	06/01/2005	Fury (zeta-cypermethrin)	1.5	EW	0.05	lb ai/Acre
10.	06/03/2005	Irrigate				
11.	06/03/2005	Fertilize with UAN			10	gal UAN/Acre
12.	06/07/2005	Cultivate with rolling cultivator				
13.	06/09/2005	Fury (zeta-cypermethrin)	1.5	EW	0.05	lb ai/Acre
14.	06/15/2005	Fury (zeta-cypermethrin)	1.5	EW	0.05	lb ai/Acre
15.	06/15/2005	Irrigate				
16.	06/20/2005	Weed-free controls hand hoed				
17.	06/20/2005	Application A				
18.	06/27/2005	Irrigate				
19.	07/07/2005	Irrigate				
20.	07/18/2005	Cultivate with rolling cultivator				
21.	07/19/2005	Irrigate				
22.	07/19/2005	Fertilize with UAN			10	gal UAN/Acre
23.	08/02/2005	Cultivate with rolling cultivator				
24.	08/04/2005	Irrigate				
25.	08/04/2005	Fertilize with UAN			15	gal UAN/Acre
26.	08/12/2005	Irrigate				
27.	08/30/2005	Irrigate				

Soil Description

%Sand: 35	%OM: 0.9	Texture: Loam
% Silt: 38	pH: 8.2	Soil Name: Agua
% Clay: 27	CEC: 38.9 meq/100g	

MOISTURE CONDITIONS

Closest Weather Station: Hatch New Mexico **Distance:** 5 **Unit:** Mile
Overall Moisture Conditions: Good throughout the year

APPLICATION DESCRIPTION **A**
Application Date: 06/20/2005
Time of Day: Morning
Application Method: Spray
Application Timing: POST
Application Placement: Overtop
Applied By: Justin
Air Temperature, Unit: 99 F
% Relative Humidity: 33.5
 Wind Velocity,MPH: 1
Dew Presence (Y/N): N
Soil Temperature, Unit: 70 F
Soil Moisture: Dry
% Cloud Cover: 5

CROP STAGE
APPLICATION **A**
Height, Unit: Inches
Height Minimum, Maximum 3-6

APPLICATION EQUIPMENT **A**
Appl. Equipment: Backpack
Operating Pressure: 20
Pressure Unit: PSI
Nozzle Type: Teejet
Nozzle Size: 8002
Nozzle Spacing, Unit: 20 Inch
Nozzle/Row: 2
Band Width, Unit: 20 Inch
Boom Height, Unit: 18 Inch
Ground Speed, Unit: 2 MPH
Incorporation Equip.: N/A
Hours to Incorp.: N/A
Carrier: Water
Spray Volume: 20
Volume Unit: Gal/Ac
Propellant: CO2

THINNING COMMENTS

Notes
Plants were not thinned manually because the chile stand was poor.

HARVEST COMMENTS

Notes
No chile peppers were harvested because of the poor chile stand.

RATING COMMENTS

Each plot was blindly rated on a percent basis 0-100, where 0 was no injury or damage to the chile plant and 100 was complete necrosis or death. Weed control was rated using the same scale, where 0 was no weed control and 100 was weed free.

Plant Name						Chile	Purple nutsedge	Chile	Purple nutsedge	
Rating Date						7/Jun/2005	7/Jun/2005	29/Jun/2005	29/Jun/2005	
Rating Data Type						Injury	Control	Injury	Control	
Rating Unit						%	%	%	%	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Appl Code	1	2	3	4
1	Weedy Control						3 b	3 c	1 b	1 a
2	Hand-Weeded Control						1 b	18 ab	1 b	24 a
3	V10142 NIS	75	DF	0.05	LB A/A	A	6 b	10 bc	4 b	6 a
				0.25	% V/V	A				
4	V10142 NIS	75	DF	0.1	LB A/A	A	4 b	8 bc	3 b	5 a
				0.25	% V/V	A				
5	V10142 NIS	75	DF	0.2	LB A/A	A	1 b	10 bc	3 b	6 a
				0.25	% V/V	A				
6	Halosulfuron NIS	75	DF	0.036	LB A/A	A	28 a	25 a	14 a	13 a
				0.25	% V/V	A				
LSD (P=.05)							8.3	8.9	6.4	15.8
Standard Deviation							5.5	5.9	4.2	10.5
CV							77.68	48.77	101.19	114.7
Grand Mean							7.08	12.08	4.17	9.17
Bartlett's X2							7.366	7.378	6.753	24.515
P(Bartlett's X2)							0.195	0.194	0.24	0.001*
Replicate F							1.881	0.520	1.094	1.030
Replicate Prob(F)							0.1762	0.6749	0.3822	0.4073
Treatment F							13.679	7.320	5.156	2.322
Treatment Prob(F)							0.0001	0.0012	0.0060	0.0946

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.

Plant Name						Chile	Purple nutsedge
Rating Date						17/Jul/2005	17/Jul/2005
Rating Data Type						Injury	Control
Rating Unit						%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Appl Code	
						5	6
1	Weedy Control						0 b
2	Hand-Weeded Control						1 c
3	V10142 NIS	75	DF	0.05	LB A/A	A	0 b
				0.25	% V/V	A	14 bc
4	V10142 NIS	75	DF	0.1	LB A/A	A	4 b
				0.25	% V/V	A	19 b
5	V10142 NIS	75	DF	0.2	LB A/A	A	3 b
				0.25	% V/V	A	10 bc
6	Halosulfuron NIS	75	DF	0.036	LB A/A	A	3 b
				0.25	% V/V	A	10 bc
	LSD (P=.05)						11.8
	Standard Deviation						7.8
	CV						7.7
	Grand Mean						121.52
	Bartlett's X2						40.04
	P(Bartlett's X2)						6.46
	Replicate F						8.381
	Replicate Prob(F)						0.039*
	Treatment F						1.325
	Treatment Prob(F)						0.3034
							0.0991
							8.784
							31.104
							0.0005
							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.

CROP DESCRIPTION

Crop: Pecans *Carya illinoensis*

Variety: Western Schley

Planting Method: Transplant

Depth, Unit: N/A

Row Spacing, Unit: 30 ft

Planting Date: 02/23/2000

Rate, Unit: 45 trees/A

Perennial Age, Unit: 5 years

SITE AND DESIGN

Plot Width, Unit: 10 ft

Replications: 4

Site Type: Orchard

Study Design: Randomized Complete Block

Previous Crops

1. Pecan
2. Pecan
3. Pecan

Previous Pesticides

glyphosate
 diuron, glyphosate
 glyphosate, diuron, trifluralin

Year

2005
 2004
 2003

MAINTENANCE

No.	Date	Maintenance Treatment Name	Form Conc	Form Type	Rate	Rate Unit
1.	04/04/2005	Fertilize	21-00-00		100	lb/A
2.	04/05/2005	Irrigated				
3.	04/13/2005	Fertilize Zinc Sulfate	35%		2	Tbs/3gal water
4.	04/27/2005	Fertilize Zinc Sulfate	35%		2	Tbs/3gal water
5.	05/05/2005	Fertilize	21-00-00		100	lb/A
6.	05/05/2005	Irrigated				
7.	05/24/2005	Fertilize Zinc Sulfate	35%		3	Tbs/3gal water
8.	06/03/2005	Irrigated				
9.	06/03/2005	Fertilize with UAN			10	gal/A
10.	06/13/2005	Fertilize Zinc Sulfate	35%		3	Tbs/3gal water
11.	06/22/2005	Application A				
12.	06/27/2005	Irrigated				
13.	07/05/2005	Fertilize Zinc Sulfate	35%		3	Tbs/3gal water
14.	07/18/2005	Application B				
15.	07/19/2005	Irrigated				
16.	07/19/2005	Fertilize with UAN			10	gal/A
17.	08/09/2005	Application C				
18.	08/11/2005	Fertilize Zinc Sulfate	35%		3	Tbs/3gal water
19.	08/26/2005	Irrigated				
20.	08/29/2005	Application D				
21.	09/21/2005	Application E				
22.	09/28/2005	Irrigated				

Soil Description

%Sand: 55

% Silt: 26

% Clay: 19

%OM: 1.3

pH: 7.8

CEC: 24.6 meq/100g

Texture: Sandy Loam

Soil Name: Glendale

MOISTURE CONDITIONS

Closest Weather Station: Hatch New Mexico **Distance:** 5 **Unit:** Mile

Overall Moisture Conditions: Good throughout the year

APPLICATION DESCRIPTION	A	B	C	D	E
Application Date:	6/22/2005	7/18/2005	8/09/2005	8/29/2005	9/21/2005
Time of Day:	Morning	Morning	Morning	Afternoon	Morning
Application Method:	Spray	Spray	Spray	Spray	Spray
Application Timing:	POST	POST	POST	POST	POST
Application Placement:	Overtop	Overtop	Overtop	Overtop	Overtop
Applied By:	Justin	Justin	Justin	Justin	Justin
Air Temperature, Unit:	87 F	100 F	92 F	89 F	65 F
% Relative Humidity:	37	65	60	42	66
Wind Velocity, MPH:	3.6	1.1	0.8	1	0
Dew Presence (Y/N):	N	N	N	N	N
Soil Temperature, Unit:	80 F	100 F	90 F	85	70 F
Soil Moisture:	Moist	Dry	Dry	Wet	Dry
% Cloud Cover:	0	10	0	5	0

APPLICATION EQUIPMENT	A	B	C	D	E
Appl. Equipment:	Backpack	Backpack	Backpack	Backpack	Backpack
Operating Pressure:	24	22	24	22	22
Pressure Unit:	PSI	PSI	PSI	PSI	PSI
Nozzle Type:	Teejet	Teejet	Teejet	Teejet	Teejet
Nozzle Size:	11004	11004	11004	11004	11004
Nozzle Spacing, Unit:	20 Inch	20 Inch	20 Inch	20 Inch	20 Inch
Nozzle/Row:	N/A	N/A	N/A	N/A	N/A
Band Width, Unit:	10 ft	10 ft	10 ft	10 ft	10 ft
Boom Height, Unit:	18 Inch	18 Inch	18 Inch	18 Inch	18 Inch
Ground Speed, Unit:	2 MPH	2 MPH	2 MPH	2 MPH	2 MPH
Incorporation Equip.:	N/A	N/A	N/A	N/A	N/A
Hours to Incorp.:	N/A	N/A	N/A	N/A	N/A
Carrier:	Water	Water	Water	Water	Water
Spray Volume:	40	40	40	40	40
Volume Unit:	Gal/Ac	Gal/Ac	Gal/Ac	Gal/Ac	Gal/Ac
Propellant:	CO2	CO2	CO2	CO2	CO2

Plant Name						Pecan 29/Jun/2005 Injury %	Pecan 6/Jul/2005 Injury %	Pecan 13/Jul/2005 Injury %	Palmer amaranth 13/Jul/2005 Cover %		
Rating Date											
Rating Data Type											
Rating Unit											
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate	Unit	Appl Code				
								1	2		
								3	4		
1	Untreated Control							3 a	0 a	0 a	7 a
2	Oxyflurofen	2	EC	1	lb ai/a		A	3 a	0 a	0 a	4 a
3	Oxyflurofen	2	EC	2	lb ai/a		A	1 a	1 a	0 a	3 a
4	Oxyflurofen	4	F	1	lb ai/a		A	1 a	1 a	0 a	1 a
5	Oxyflurofen	4	F	2	lb ai/a		A	0 a	1 a	0 a	1 a
6	Glyphosate	5.4	EC	0.84	lb ai/a		ABD	0 a	0 a	0 a	2 a
	Ammonium sulfate	100	G	37	lb ai/a		ABD				
7	Oxyflurofen	2	EC	0.25	lb ai/a		ACE	1 a	1 a	0 a	0 a
	Glyphosate	5.4	EC	0.84	lb ai/a		ACE				
	Ammonium sulfate	100	G	37	lb ai/a		ACE				
8	Oxyflurofen	4	F	0.25	lb ai/a		ACE	1 a	0 a	0 a	0 a
	Glyphosate	5.4	EC	0.84	lb ai/a		ACE				
	Ammonium sulfate	100	G	37	lb ai/a		ACE				
LSD (P=.05)								3.5	2.7	0.0	6.9
Standard Deviation								2.4	1.8	0.0	4.7
CV								190.24	289.5	0.0	212.4
Grand Mean								1.25	0.63	0.0	2.22
Bartlett's X2								0.158	0.0	0.0	15.61
P(Bartlett's X2)								1.00	1.00	.	0.008*
Replicate F								0.368	0.636	0.000	0.215
Replicate Prob(F)								0.7765	0.5999	1.0000	0.8847
Treatment F								0.632	0.545	0.000	0.867
Treatment Prob(F)								0.7247	0.7905	1.0000	0.5480

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.

Plant Name						Common purslane	Horse purslane	Annual grass	Pecan	
Rating Date						13/Jul/2005	13/Jul/2005	13/Jul/2005	25/Jul/2005	
Rating Data Type						Cover	Cover	Cover	Injury	
Rating Unit						%	%	%	%	
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Appl Code	5	6	7	8
1	Untreated Control						3 a	0 a	6 a	0 a
2	Oxyflurofen	2	EC	1	lb ai/a	A	1 a	0 a	3 a	0 a
3	Oxyflurofen	2	EC	2	lb ai/a	A	0 a	0 a	1 a	0 a
4	Oxyflurofen	4	F	1	lb ai/a	A	2 a	0 a	4 a	0 a
5	Oxyflurofen	4	F	2	lb ai/a	A	1 a	0 a	3 a	0 a
6	Glyphosate	5.4	EC	0.84	lb ai/a	ABD	3 a	0 a	2 a	0 a
	Ammonium sulfate	100	G	37	lb ai/a	ABD				
7	Oxyflurofen	2	EC	0.25	lb ai/a	ACE	2 a	0 a	2 a	0 a
	Glyphosate	5.4	EC	0.84	lb ai/a	ACE				
	Ammonium sulfate	100	G	37	lb ai/a	ACE				
8	Oxyflurofen	4	F	0.25	lb ai/a	ACE	3 a	0 a	4 a	0 a
	Glyphosate	5.4	EC	0.84	lb ai/a	ACE				
	Ammonium sulfate	100	G	37	lb ai/a	ACE				
LSD (P=.05)							2.3	0.0	4.5	0.0
Standard Deviation							1.6	0.0	3.1	0.0
CV							86.29	0.0	103.6	0.0
Grand Mean							1.84	0.0	2.97	0.0
Bartlett's X2							6.906	0.0	20.695	0.0
P(Bartlett's X2)							0.439	.	0.004*	.
Replicate F							5.082	0.000	0.761	0.000
Replicate Prob(F)							0.0084	1.0000	0.5286	1.0000
Treatment F							1.832	0.000	1.038	0.000
Treatment Prob(F)							0.1336	1.0000	0.4352	1.0000

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.

Plant Name						Palmer amaranth 25/Jul/2005	Common purslane 25/Jul/2005	Annual grass 25/Jul/2005	
Rating Date						Cover	Cover	Cover	
Rating Data Type						%	%	%	
Rating Unit									
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate	Appl Unit Code	9	10	11
1	Untreated Control						3 ab	19 a	21 a
2	Oxyflurofen	2	EC	1	lb ai/a	A	1 b	8 a	15 a
3	Oxyflurofen	2	EC	2	lb ai/a	A	1 b	5 a	6 a
4	Oxyflurofen	4	F	1	lb ai/a	A	7 ab	6 a	11 a
5	Oxyflurofen	4	F	2	lb ai/a	A	1 b	4 a	9 a
6	Glyphosate	5.4	EC	0.84	lb ai/a	ABD	11 a	8 a	4 a
	Ammonium sulfate	100	G	37	lb ai/a	ABD			
7	Oxyflurofen	2	EC	0.25	lb ai/a	ACE	6 ab	2 a	8 a
	Glyphosate	5.4	EC	0.84	lb ai/a	ACE			
	Ammonium sulfate	100	G	37	lb ai/a	ACE			
8	Oxyflurofen	4	F	0.25	lb ai/a	ACE	4 ab	1 a	10 a
	Glyphosate	5.4	EC	0.84	lb ai/a	ACE			
	Ammonium sulfate	100	G	37	lb ai/a	ACE			
LSD (P=.05)							6.3	16.5	15.1
Standard Deviation							4.3	11.2	10.3
CV							100.99	173.79	100.01
Grand Mean							4.22	6.44	10.28
Bartlett's X2							19.488	23.453	16.42
P(Bartlett's X2)							0.007*	0.001*	0.022*
Replicate F							2.839	0.118	0.186
Replicate Prob(F)							0.0626	0.9488	0.9051
Treatment F							2.957	1.024	1.080
Treatment Prob(F)							0.0254	0.4435	0.4103

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.

Plant Name						Pecan	Palmer amaranth	Common purslane	
Rating Date						9/Aug/2005	9/Aug/2005	9/Aug/2005	
Rating Data Type						Injury	Cover	Cover	
Rating Unit						%	%	%	
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Appl Code	12	13	14
1	Untreated Control						0 a	26 a	14 b
2	Oxyflurofen	2	EC	1	lb ai/a	A	0 a	85 a	53 ab
3	Oxyflurofen	2	EC	2	lb ai/a	A	0 a	33 a	100 a
4	Oxyflurofen	4	F	1	lb ai/a	A	0 a	64 a	31 b
5	Oxyflurofen	4	F	2	lb ai/a	A	0 a	61 a	53 ab
6	Glyphosate	5.4	EC	0.84	lb ai/a	ABD	0 a	25 a	23 b
	Ammonium sulfate	100	G	37	lb ai/a	ABD			
7	Oxyflurofen	2	EC	0.25	lb ai/a	ACE	0 a	78 a	14 b
	Glyphosate	5.4	EC	0.84	lb ai/a	ACE			
	Ammonium sulfate	100	G	37	lb ai/a	ACE			
8	Oxyflurofen	4	F	0.25	lb ai/a	ACE	0 a	76 a	6 b
	Glyphosate	5.4	EC	0.84	lb ai/a	ACE			
	Ammonium sulfate	100	G	37	lb ai/a	ACE			
LSD (P=.05)						0.0	57.0	47.7	
Standard Deviation						0.0	38.8	32.4	
CV						0.0	69.33	88.79	
Grand Mean						0.0	55.91	36.5	
Bartlett's X2						0.0	6.047	22.756	
P(Bartlett's X2)						.	0.534	0.001*	
Replicate F						0.000	1.383	1.248	
Replicate Prob(F)						1.0000	0.2755	0.3176	
Treatment F						0.000	1.606	3.674	
Treatment Prob(F)						1.0000	0.1885	0.0096	

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.

Plant Name	Annual Grass	Pecans	Palmer Amaranath	Annual Grass							
Rating Date	9/Aug/2005	19/Aug/2005	19/Aug/2005	19/Aug/2005							
Rating Data Type	Cover	Injury	Cover	Cover							
Rating Unit	%	%	%	%							
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate	Appl Unit	Code	15	16	17	18
1	Untreated Control							28 a	0 a	34 a	31 a
2	Oxyflurofen	2	EC	1	lb ai/a		A	15 a	0 a	10 a	16 a
3	Oxyflurofen	2	EC	2	lb ai/a		A	7 a	0 a	13 a	9 a
4	Oxyflurofen	4	F	1	lb ai/a		A	23 a	0 a	14 a	20 a
5	Oxyflurofen	4	F	2	lb ai/a		A	16 a	0 a	8 a	11 a
6	Glyphosate	5.4	EC	0.84	lb ai/a		ABD	13 a	0 a	25 a	16 a
	Ammonium sulfate	100	G	37	lb ai/a		ABD				
7	Oxyflurofen	2	EC	0.25	lb ai/a		ACE	9 a	0 a	0 a	6 a
	Glyphosate	5.4	EC	0.84	lb ai/a		ACE				
	Ammonium sulfate	100	G	37	lb ai/a		ACE				
8	Oxyflurofen	4	F	0.25	lb ai/a		ACE	20 a	0 a	0 a	15 a
	Glyphosate	5.4	EC	0.84	lb ai/a		ACE				
	Ammonium sulfate	100	G	37	lb ai/a		ACE				
LSD (P=.05)								18.2	0.0	24.9	20.3
Standard Deviation								12.3	0.0	17.0	13.8
CV								76.24	0.0	132.3	88.89
Grand Mean								16.19	0.0	12.81	15.53
Bartlett's X2								14.279	0.0	7.639	20.846
P(Bartlett's X2)								0.046*	.	0.177	0.004*
Replicate F								0.095	0.000	0.584	0.130
Replicate Prob(F)								0.9617	1.0000	0.6323	0.9409
Treatment F								1.268	0.000	1.894	1.299
Treatment Prob(F)								0.3126	1.0000	0.1217	0.2986

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.

Plant Name						purslane 19/Aug/2005 Cover %	Pecans 29/Aug/2005 Injury %	Palmer amaranath 29/Aug/2005 Cover %	Annual grass 29/Aug/2005 Cover %		
Rating Date											
Rating Data Type											
Rating Unit											
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate	Unit	Appl Code				
								19	20		
								21	22		
1	Untreated Control							10 ab	0 a	46 a	29 a
2	Oxyflurofen	2	EC	1	lb ai/a		A	3 b	0 a	18 a	11 a
3	Oxyflurofen	2	EC	2	lb ai/a		A	0 b	0 a	14 a	9 a
4	Oxyflurofen	4	F	1	lb ai/a		A	6 b	0 a	18 a	23 a
5	Oxyflurofen	4	F	2	lb ai/a		A	2 b	0 a	8 a	14 a
6	Glyphosate	5.4	EC	0.84	lb ai/a		ABD	16 a	0 a	46 a	16 a
	Ammonium sulfate	100	G	37	lb ai/a		ABD				
7	Oxyflurofen	2	EC	0.25	lb ai/a		ACE	4 b	0 a	0 a	4 a
	Glyphosate	5.4	EC	0.84	lb ai/a		ACE				
	Ammonium sulfate	100	G	37	lb ai/a		ACE				
8	Oxyflurofen	4	F	0.25	lb ai/a		ACE	5 b	0 a	0 a	6 a
	Glyphosate	5.4	EC	0.84	lb ai/a		ACE				
	Ammonium sulfate	100	G	37	lb ai/a		ACE				
LSD (P=.05)								6.9	0.0	37.0	25.0
Standard Deviation								4.7	0.0	25.2	17.0
CV								82.06	0.0	135.4	121.19
Grand Mean								5.69	0.0	18.59	14.0
Bartlett's X2								4.743	0.0	6.477	24.375
P(Bartlett's X2)								0.577	.	0.263	0.001*
Replicate F								1.249	0.000	0.221	0.300
Replicate Prob(F)								0.3172	1.0000	0.8804	0.8253
Treatment F								5.037	0.000	2.137	1.013
Treatment Prob(F)								0.0018	1.0000	0.0843	0.4506

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.

Plant Name						purslane	Palmer amaranth	Annual grass	
Rating Date						29/Aug/2005	7/Sep/2005	7/Sep/2005	
Rating Data Type						Cover	Cover	Cover	
Rating Unit						%	%	%	
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Unit	Appl Code	23	24	25
1	Untreated Control						4 b	34 a	31 a
2	Oxyflurofen	2	EC	1 lb ai/a		A	5 b	19 a	14 a
3	Oxyflurofen	2	EC	2 lb ai/a		A	1 b	15 a	10 a
4	Oxyflurofen	4	F	1 lb ai/a		A	5 b	18 a	20 a
5	Oxyflurofen	4	F	2 lb ai/a		A	1 b	11 a	16 a
6	Glyphosate	5.4	EC	0.84 lb ai/a		ABD	24 a	7 a	8 a
	Ammonium sulfate	100	G	37 lb ai/a		ABD			
7	Oxyflurofen	2	EC	0.25 lb ai/a		ACE	6 b	0 a	4 a
	Glyphosate	5.4	EC	0.84 lb ai/a		ACE			
	Ammonium sulfate	100	G	37 lb ai/a		ACE			
8	Oxyflurofen	4	F	0.25 lb ai/a		ACE	3 b		3 a
	Glyphosate	5.4	EC	0.84 lb ai/a		ACE			
	Ammonium sulfate	100	G	37 lb ai/a		ACE			
LSD (P=.05)							12.5	37.0	17.5
Standard Deviation							8.5	23.8	11.9
CV							139.96	161.77	90.18
Grand Mean							6.06	14.7	13.22
Bartlett's X2							28.976	7.472	27.812
P(Bartlett's X2)							0.001*	0.188	0.001*
Replicate F							1.306	0.279	0.293
Replicate Prob(F)							0.2987	0.8391	0.8297
Treatment F							3.048	0.803	2.465
Treatment Prob(F)							0.0224	0.5880	0.0517

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.

Plant Name						Common purslane 7/Sep/2005 Cover %	Bareground 7/Sep/2005 Cover %	Palmer amaranth 21/Sep/2005 Cover %	
Rating Date									
Rating Data Type									
Rating Unit									
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Appl Code			
							26	27	
								31	
1	Untreated Control						10 a	23 c	34 a
2	Oxyflurofen	2	EC	1	lb ai/a	A	5 a	68 ab	14 a
3	Oxyflurofen	2	EC	2	lb ai/a	A	1 a	72 ab	14 a
4	Oxyflurofen	4	F	1	lb ai/a	A	7 a	54 b	16 a
5	Oxyflurofen	4	F	2	lb ai/a	A	4 a	76 ab	9 a
6	Glyphosate	5.4	EC	0.84	lb ai/a	ABD	17 a	70 ab	3 a
	Ammonium sulfate	100	G	37	lb ai/a	ABD			
7	Oxyflurofen	2	EC	0.25	lb ai/a	ACE	7 a	89 a	0 a
	Glyphosate	5.4	EC	0.84	lb ai/a	ACE			
	Ammonium sulfate	100	G	37	lb ai/a	ACE			
8	Oxyflurofen	4	F	0.25	lb ai/a	ACE	7 a	90 a	1 a
	Glyphosate	5.4	EC	0.84	lb ai/a	ACE			
	Ammonium sulfate	100	G	37	lb ai/a	ACE			
LSD (P=.05)							9.8	21.9	27.3
Standard Deviation							6.3	14.9	18.5
CV							90.71	22.04	163.78
Grand Mean							6.99	67.69	11.31
Bartlett's X2							4.185	8.313	34.306
P(Bartlett's X2)							0.523	0.306	0.001*
Replicate F							0.411	1.899	0.540
Replicate Prob(F)							0.7480	0.1607	0.6600
Treatment F							2.231	8.349	1.408
Treatment Prob(F)							0.1062	0.0001	0.2540

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.

Plant Name	Annual grass	Common purslane	Bareground							
Rating Date	21/Sep/2005	21/Sep/2005	21/Sep/2005							
Rating Data Type	Cover	Cover	Cover							
Rating Unit	%	%	%							
Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate	Appl Unit	Code	32	33	34
1	Untreated Control							33 a	10 ab	21 c
2	Oxyflurofen	2	EC	1	lb ai/a	A		14 ab	1 b	66 ab
3	Oxyflurofen	2	EC	2	lb ai/a	A		11 ab	0 b	66 ab
4	Oxyflurofen	4	F	1	lb ai/a	A		21 ab	5 ab	53 b
5	Oxyflurofen	4	F	2	lb ai/a	A		14 ab	3 b	73 ab
6	Glyphosate	5.4	EC	0.84	lb ai/a	ABD		4 b	14 a	79 ab
	Ammonium sulfate	100	G	37	lb ai/a	ABD				
7	Oxyflurofen	2	EC	0.25	lb ai/a	ACE		3 b	7 ab	91 a
	Glyphosate	5.4	EC	0.84	lb ai/a	ACE				
	Ammonium sulfate	100	G	37	lb ai/a	ACE				
8	Oxyflurofen	4	F	0.25	lb ai/a	ACE		4 b	8 ab	85 ab
	Glyphosate	5.4	EC	0.84	lb ai/a	ACE				
	Ammonium sulfate	100	G	37	lb ai/a	ACE				
LSD (P=.05)								17.5	6.8	23.9
Standard Deviation								11.9	4.6	16.2
CV								93.01	78.75	24.34
Grand Mean								12.81	5.88	66.66
Bartlett's X2								30.874	15.204	10.768
P(Bartlett's X2)								0.001*	0.033*	0.149
Replicate F								0.304	1.269	0.915
Replicate Prob(F)								0.8220	0.3106	0.4507
Treatment F								2.972	3.954	7.287
Treatment Prob(F)								0.0249	0.0066	0.0002

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.

Crop Description

Crop 1: Pecan *Carya illinoensis* CYAIL

Variety: Wichita and Mohawk

Planting Date: 21/Feb/2000

Planting Method: Transplant

Depth, Unit: 4 ft

Row Spacing, Unit: 30 ft

Spacing Within Row, Unit: 30 FT

Plant Description

Code: LACSE *Lactuca serriola*

Common Name: Lettuce, prickly

Code: KCHSC *Kochia scoparia*

Common Name: Kochia

Code: SASKR *Salsola kali* ssp. *ruthenica*

Common Name: Thistle, Russian

Code: BROCA *Bromus catharticus*

Common Name: Rescuegrass

Code: HORLE *Hordeum leporinum*

Common Name: Barley, Hare

Code: SSYIR *Sisymbrium irio*

Common Name: London rocket

Code: CHESP *Chenopod* species

Code: POROL *Portulaca oleracea*

Common Name: Purslane, common

Code: ECHCO *Echinochloa colonum*

Common Name: Junglerice

Code: AMAPA *Amaranthus palmeri*

Common Name: Amaranth, Palmer

Code: PHBPU *Ipomoea purpurea*

Common Name: Tall morningglory

Code: LEFUN *Leptochloa uninervia*

Common Name: Sprangletop, Mexican

SITE AND DESIGN

Plot Width, Unit: 24 FT

Site Type: Orchard

Plot Length, Unit: 45 FT

Replications: 3

Study Design: Randomized Complete Block

MAINTENANCE

No.	Date	Maintenance Treatment Name	Form Conc	Form Type	Rate	Rate Unit
1.	28/Mar/2005	Roundup Weather Max	5.5	L	1	LB A/A
2.	5/May/2005	Roundup Weather Max	5.5	L	2.75	LB A/A

Comment: 1. Roundup Weather Max was applied at 1 lb ai/a with 0.25% Latron AG98. Treatment 5, 6, and 7 were treated for kochia seedlings that were not controlled by Application B.

FIELD PREP./MAINTENANCE:

Cultivation: disced down all weeds on 8/3/05 with an offset disc

Irrigation Data reported in Moisture section

Using flood irrigation

Under Type: Pump is well water pumped from irrigation well; EBID is water from the Elephant Butte Irrigation District canal water from the Rio Grande

Rain data is reported in inches for each month:

2004		2005	
October	1.08	January	1.14
November	2.00	February	1.74
December	0.51	March	0.15
		April	0.62
		May	0.51
		June	0.02
		July	0.80
		August	0.87

Fertility

4/4/05	Broadcast 100 lb/a of 21-0-0
4/13/05	Foliar application 2 Tbsp zinc sulfate 35%/ 3 gal water
4/27/05	Foliar application 2 Tbsp zinc sulfate 35%/ 3 gal water
5/5/05	Broadcast 100 lb/a of 21-0-0
5/24/05	Foliar application 3 Tbsp zinc sulfate/2 gal water
6/3/05	Fertigate with 10 gal UAN/A
6/13/05	Foliar application 3 Tbsp zinc sulfate/2 gal water
7/5/05	Foliar application 3 Tbsp zinc sulfate/2 gal water
7/19/05	Fertigate with 10 gal UAN/A

SOIL DESCRIPTION**Description Name:** Glendale Clay Loam**%Sand:** 55**% Silt:** 26**% Clay:** 19**%OM:** 1.3**pH:** 7.8**CEC:** 24.6 meq/100g**Texture:** Sandy Loam**Soil Name:** Glendale**MOISTURE CONDITIONS****Overall Moisture Conditions:** good

	Date	Amount	Unit	Type
1.	21/Oct/2004	4	IN	PUMP
2.	6/Apr/2005	6	IN	PUMP
3.	5/May/2005	4	IN	EBID
4.	3/Jun/2005	6	IN	EBID
5.	27/Jun/2005	6	IN	EBID
6.	19/Jul/2005	6	IN	EBID

APPLICATION DESCRIPTION

	A	B
Application Date:	20/Oct/2004	22/Feb/2005
Time of Day:	Mid-Day	Mid-Day
Application Method:	Spray	Spray
Application Timing:	Fall	Spring
Application Placement:	BROSOI	BROSOI
Applied By:	Fiore, C.	Fiore, C.
Air Temperature, Unit:	82F	66 F
% Relative Humidity:	15	33
Wind Velocity, Unit:	7.5 Mph	7 Mph
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	66 F	52 F
Soil Moisture:	Dry	Moist
% Cloud Cover:	50	80

PLANT STAGE AT EACH APPLICATION

	A	B
Plant 1 Code	PRICKLY LETTUCE	PRICKLY LETTUCE
Stage Majority, %:	Rosette	Flower
Plant 2 Code	KOCHIA	KOCHIA
Stage Majority, %:	Flower	
Plant 3 Code	RUSSIAN THISTLE	RUSSIAN THISTLE
Stage Majority, %:	Flower	
Plant 4 Code	RESCUEGRASS	RESCUEGRASS
Stage Majority, %:	Flower	
Plant 5 Code:	HARE BARLEY	HARE BARLEY
Stage Majority, %:	Flower	
Plant 6 Code	LONDON ROCKET	LONDON ROCKET
Stage Majority, %:	Flower	Flower
Plant 7 Code	CHENOPOD	CHENOPOD
Plant 8 Code	COMMON PURSLANE	COMMON PURSLANE
Stage Majority, %:	Flower	
Plant 9 Code	JUNGLERICE	JUNGLERICE
Stage Majority, %:	Flower	
Plant 10 Code	PALMER AMARANTH	PALMER AMARANTH
Stage Majority, %:	Flower	
Plant 11 Code	TALL MORNINGGLORY	TALL MORNINGGLORY
Stage Majority, %:	Flower	
Plant 12 Code	MEXICAN SPRANGLETOP	MEXICAN SPRANGLETOP
Stage Majority, %:	Flower	

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	CO2 BACK PAC	CO2 BACK PAC
Operating Pressure:	17	18
Pressure Unit:	PSI	PSI
Nozzle Type:	TEEJET	TEEJET
Nozzle Size:	11002	11002
Nozzle Spacing, Unit:	20 IN	20 IN
Nozzles/plot:	16	16
Band Width, Unit:	20 IN	20 IN
Boom Length, Unit:	80 IN	80 IN
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	2 MPH	2 MPH
Carrier:	WATER	WATER
Spray Volume:	20	20
Volume Unit:	GPA	GPA
Propellant:	CO2	CO2

TREATMENT APPLICATION COMMENT

Treatment #2: Plots 102 and 207 (3 passes out of 4 passes/plot) sprayed with chemicals that should have been mixed with 2 gallons of water, but only one gallon of water was added to the tank. Chemicals were re-weighed, mixed with 2 gallons of water and the fourth pass on plots 102, 207 and all of plot 307 were sprayed with the new tank mix.

Plant Name							Hare Barley	London Rocket	Chenopod	Hare Barley
Part Rated							Shoot	Shoot	Shoot	Shoot
Rating Date							2/Dec/2004	2/Dec/2004	2/Dec/2004	20/Dec/2004
Rating Data Type							Control	Control	Control	Control
Rating Unit							%	%	%	%
Trt No	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	1	2	3	4
1	Untreated Check						0 b	0 b	0 b	0 b
2	Karmex DF	80	WP	25.60	OZ A/A	A	33 b	67 a	67 a	30 b
	NIS	100	SL	0.25	% V/V	A				
	RoundUp	5.5	AS	16	OZ A/A	B				
	Weather Max	100	SL	0.25	% V/V	B				
3	RoundUp	5.5	AS	16	OZ A/A	A	100 a	100 a	100 a	100 a
	Weather Max	100	SL	0.25	% V/V	A				
	NIS	100	SL	0.25	% V/V	A				
	RoundUp	5.5	AS	16	OZ A/A	B				
	Weather Max	100	SL	0.25	% V/V	B				
4	Rimsulfuron	25	WP	1	OZ A/A	A	100 a	100 a	100 a	100 a
	RoundUp	5.5	AS	16	OZ A/A	A				
	Weather Max	80	WP	25.60	OZ A/A	A				
	Karmex DF	100	SL	0.25	% V/V	A				
5	Rimsulfuron	25	WP	2	OZ A/A	A	100 a	100 a	100 a	100 a
	RoundUp	5.5	AS	16	OZ A/A	A				
	Weather Max	100	SL	0.25	% V/V	A				
	NIS	100	SL	0.25	% V/V	A				
	Rimsulfuron	25	WP	2	OZ A/A	B				
	NIS	100	SL	0.25	% V/V	B				
6	Rimsulfuron	25	WP	1	OZ A/A	A	100 a	100 a	100 a	100 a
	RoundUp	5.5	AS	16	OZ A/A	A				
	Weather Max	100	SL	0.25	% V/V	A				
	NIS	100	SL	0.25	% V/V	A				
	Rimsulfuron	25	WP	1	OZ A/A	B				
	NIS	100	SL	0.25	% V/V	B				
7	Rimsulfuron	25	WP	0.5	OZ A/A	A	100 a	100 a	100 a	100 a
	RoundUp	5.5	AS	16	OZ A/A	A				
	Weather Max	100	SL	0.25	% V/V	A				
	NIS	100	SL	0.25	% V/V	A				
	Rimsulfuron	25	WP	0.5	OZ A/A	B				
	NIS	100	SL	0.25	% V/V	B				
LSD (P=.05)							38.0	38.8	38.8	34.9
Standard Deviation							21.4	21.8	21.8	19.6
CV							28.1	26.96	26.93	25.94
Grand Mean							76.1	80.95	80.9	75.71
Bartlett's X2							0.0	0.0	15.109	0.0
P(Bartlett's X2)							.	.	0.001*	.
Replicate F							1.000	1.000	1.023	1.000
Replicate Prob(F)							0.3966	0.3966	0.3887	0.3966
Treatment F							11.516	9.000	9.016	13.963
Treatment Prob(F)							0.0002	0.0007	0.0007	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.

Plant Name							Prickly Lettuce	Chenopod	Hare Barley	London Rocket
Part Rated							Shoot	Shoot	Shoot	Shoot
Rating Date							20/Dec/2004	20/Dec/2004	19/Jan/2005	19/Jan/2005
Rating Data Type							Control	Control	Control	Control
Rating Unit							%	%	%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	5	6	7	8
1	Untreated Check						0 b	0 b	0 b	0 b
2	Karmex DF NIS RoundUp Weather Max NIS	80 100 5.5 100	WP SL AS SL	25.60 0.25 16 0.25	OZ A/A % V/V OZ A/A % V/V	A A B B	67 a	67 a	0 b	100 a
3	RoundUp Weather Max NIS RoundUp Weather Max NIS	5.5 100 5.5 100	AS SL AS SL	16 0.25 16 0.25	OZ A/A % V/V OZ A/A % V/V	A A B B	100 a	100 a	100 a	100 a
4	Rimsulfuron RoundUp Weather Max Karmex DF NIS	25 5.5 80 100	WP AS WP SL	1 16 25.60 0.25	OZ A/A OZ A/A OZ A/A % V/V	A A A A	100 a	100 a	99 a	100 a
5	Rimsulfuron RoundUp Weather Max NIS Rimsulfuron NIS	25 5.5 100 25 100	WP AS SL WP SL	2 16 0.25 2 0.25	OZ A/A OZ A/A % V/V OZ A/A % V/V	A A A B B	100 a	100 a	100 a	100 a
6	Rimsulfuron RoundUp Weather Max NIS Rimsulfuron NIS	25 5.5 100 25 100	WP AS SL WP SL	1 16 0.25 1 0.25	OZ A/A OZ A/A % V/V OZ A/A % V/V	A A A B B	100 a	100 a	100 a	100 a
7	Rimsulfuron RoundUp Weather Max NIS Rimsulfuron NIS	25 5.5 100 25 100	WP AS SL WP SL	0.5 16 0.25 0.5 0.25	OZ A/A OZ A/A % V/V OZ A/A % V/V	A A A B B	100 a	100 a	100 a	100 a
LSD (P=.05)							38.8	38.8	0.9	0.0
Standard Deviation							21.8	21.8	0.5	0.0
CV							26.96	26.96	0.71	0.0
Grand Mean							80.95	80.95	71.29	85.71
Bartlett's X2							0.0	0.0	0.862	0.0
P(Bartlett's X2)							.	.	0.353	.
Replicate F							1.000	1.000	0.563	0.000
Replicate Prob(F)							0.3966	0.3966	0.5841	1.0000
Treatment F							9.000	9.000	28013.315	0.000
Treatment Prob(F)							0.0007	0.0007	0.0001	1.0000

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.

Plant Name							Prickly Lettuce	Chenopod	Hare Barley	London Rocket
Part Rated							Shoot	Shoot	Shoot	Shoot
Rating Date							19/Jan/2005	19/Jan/2005	22/Feb/2005	22/Feb/2005
Rating Data Type							Control	Control	Control	Control
Rating Unit							%	%	%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	9	10	11	12
1	Untreated Check						0 b	0 b	0 b	0 a
2	Karmex DF NIS RoundUp Weather Max NIS	80 100 5.5 5.5 100	WP SL AS AS SL	25.60 0.25 16 16 0.25	OZ A/A % V/V OZ A/A OZ A/A % V/V	A A B B B	99 a	67 a	33 ab	67 a
3	RoundUp Weather Max NIS RoundUp Weather Max NIS	5.5 5.5 100 5.5 5.5 100	AS AS SL AS AS SL	16 16 0.25 16 16 0.25	OZ A/A OZ A/A % V/V OZ A/A OZ A/A % V/V	A A A B B B	100 a	100 a	100 a	100 a
4	Rimsulfuron RoundUp Weather Max Karmex DF NIS	25 5.5 80 100	WP AS WP SL	1 16 25.60 0.25	OZ A/A OZ A/A OZ A/A % V/V	A A A A A	100 a	100 a	100 a	67 a
5	Rimsulfuron RoundUp Weather Max NIS Rimsulfuron NIS	25 5.5 100 100 25 100	WP AS SL SL WP SL	2 16 0.25 0.25 2 0.25	OZ A/A OZ A/A % V/V % V/V OZ A/A % V/V	A A A B B B	100 a	100 a	100 a	100 a
6	Rimsulfuron RoundUp Weather Max NIS Rimsulfuron NIS	25 5.5 100 100 25 100	WP AS SL SL WP SL	1 16 0.25 0.25 1 0.25	OZ A/A OZ A/A % V/V % V/V OZ A/A % V/V	A A A B B B	100 a	100 a	67 a	67 a
7	Rimsulfuron RoundUp Weather Max NIS Rimsulfuron NIS	25 5.5 100 100 25 100	WP AS SL SL WP SL	0.5 16 0.25 0.25 0.5 0.25	OZ A/A OZ A/A % V/V % V/V OZ A/A % V/V	A A A B B B	100 a	100 a	100 a	100 a
LSD (P=.05)							0.8	38.8	52.6	67.2
Standard Deviation							0.4	21.8	29.5	37.8
CV							0.51	26.96	41.37	52.92
Grand Mean							85.62	80.95	71.43	71.43
Bartlett's X2							0.0	0.0	0.0	0.0
P(Bartlett's X2)							.	.	1.00	1.00
Replicate F							1.000	1.000	1.636	1.000
Replicate Prob(F)							0.3966	0.3966	0.2353	0.3966
Treatment F							22451.002	9.000	5.636	2.667
Treatment Prob(F)							0.0001	0.0007	0.0054	0.0699

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.

Plant Name							Chenopod	Kochia	Prickly Lettuce	Rescue-Grass
Part Rated							Shoot	Shoot	Shoot	Shoot
Rating Date							22/Feb/2005	22/Feb/2005	22/Feb/2005	22/Feb/2005
Rating Data Type							Control	Control	Control	Control
Rating Unit							%	%	%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	13	14	15	16
1	Untreated Check						0 a	0 a	0 b	0 a
2	Karmex DF NIS RoundUp Weather Max NIS	80 100 5.5 5.5 100	WP SL AS AS SL	25.60 0.25 16 16 0.25	OZ % OZ OZ %	A/A A A A B	67 a	0 a	67 ab	33 a
3	RoundUp Weather Max NIS RoundUp Weather Max NIS	5.5 5.5 100 5.5 100	AS AS SL AS SL	16 16 0.25 16 0.25	OZ OZ % OZ %	A/A A A B B	100 a	0 a	100 a	30 a
4	Rimsulfuron RoundUp Weather Max Karmex DF NIS	25 5.5 80 100	WP AS WP SL	1 16 25.60 0.25	OZ OZ OZ %	A/A A A A A	97 a	0 a	100 a	97 a
5	Rimsulfuron RoundUp Weather Max NIS Rimsulfuron NIS	25 5.5 100 25 100	WP AS SL WP SL	2 16 0.25 2 0.25	OZ OZ % OZ %	A/A A A B B	100 a	0 a	100 a	100 a
6	Rimsulfuron RoundUp Weather Max NIS Rimsulfuron NIS	25 5.5 100 25 100	WP AS SL WP SL	1 16 0.25 1 0.25	OZ OZ % OZ %	A/A A A B B	67 a	33 a	67 ab	67 a
7	Rimsulfuron RoundUp Weather Max NIS Rimsulfuron NIS	25 5.5 100 25 100	WP AS SL WP SL	0.5 16 0.25 0.5 0.25	OZ OZ % OZ %	A/A A A B B	67 a	0 a	100 a	100 a
LSD (P=.05)							66.8	38.8	57.1	68.8
Standard Deviation							37.5	21.8	32.1	38.7
CV							52.91	458.26	42.16	63.42
Grand Mean							70.95	4.76	76.19	60.95
Bartlett's X2							6.367	0.0	0.0	6.275
P(Bartlett's X2)							0.095	.	1.00	0.099
Replicate F							1.118	1.000	0.462	0.290
Replicate Prob(F)							0.3586	0.3966	0.6410	0.7534
Treatment F							2.639	1.000	4.000	3.277
Treatment Prob(F)							0.0720	0.4682	0.0197	0.0380

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.

Plant Name							Hare Barley	Kochia	Chenopod	London Rocket
Part Rated							Shoot	Shoot	Shoot	Shoot
Rating Date							22/Mar/2005	22/Mar/2005	22/Mar/2005	22/Mar/2005
Rating Data Type							Control	Control	Control	Control
Rating Unit							%	%	%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	17	18	19	20
1	Untreated Check						0 b	0 b	0 b	0 b
2	Karmex DF NIS RoundUp Weather Max NIS	80 100 5.5 5.5 100	WP SL AS AS SL	25.60 0.25 16 16 0.25	OZ % OZ OZ %	A/A A A A B	100 a	99 a	100 a	100 a
3	RoundUp Weather Max NIS RoundUp Weather Max NIS	5.5 5.5 100 5.5 5.5 100	AS AS SL AS AS SL	16 16 0.25 16 16 0.25	OZ OZ % OZ OZ %	A/A A A A A B	100 a	99 a	100 a	100 a
4	Rimsulfuron RoundUp Weather Max Karmex DF NIS	25 5.5 80 100	WP AS WP SL	1 16 25.60 0.25	OZ OZ OZ %	A/A A A A A	99 a	0 b	67 a	100 a
5	Rimsulfuron RoundUp Weather Max NIS Rimsulfuron NIS	25 5.5 100 25 100	WP AS SL WP SL	2 16 0.25 2 0.25	OZ OZ % OZ %	A/A A A B B	100 a	0 b	100 a	100 a
6	Rimsulfuron RoundUp Weather Max NIS Rimsulfuron NIS	25 5.5 100 25 100	WP AS SL WP SL	1 16 0.25 1 0.25	OZ OZ % OZ %	A/A A A B B	100 a	0 b	100 a	100 a
7	Rimsulfuron RoundUp Weather Max NIS Rimsulfuron NIS	25 5.5 100 25 100	WP AS SL WP SL	0.5 16 0.25 0.5 0.25	OZ OZ % OZ %	A/A A A B B	100 a	0 b	67 a	100 a
LSD (P=.05)							0.8	0.4	50.2	0.0
Standard Deviation							0.4	0.2	28.2	0.0
CV							0.51	0.77	37.04	0.0
Grand Mean							85.62	28.33	76.14	85.71
Bartlett's X2							0.0	0.0	15.034	0.0
P(Bartlett's X2)							.	.	0.001*	.
Replicate F							1.000	1.000	2.383	0.000
Replicate Prob(F)							0.3966	0.3966	0.1344	1.0000
Treatment F							22451.002	147511.015	5.179	0.000
Treatment Prob(F)							0.0001	0.0001	0.0076	1.0000

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.

Plant Name							Prickly Lettuce	Russian Thistle	Rescue-Grass	Russian Thistle
Part Rated							Shoot	Shoot	Shoot	Shoot
Rating Date							22/Mar/2005	22/Mar/2005	22/Mar/2005	22/Apr/2005
Rating Data Type							Control	Control	Control	Control
Rating Unit							%	%	%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	21	22	23	24
1	Untreated Check						0 b	0 c	0 b	0 c
2	Karmex DF NIS RoundUp Weather Max NIS	80 100 5.5 100	WP SL AS SL	25.60 0.25 16 0.25	OZ A/A % V/V OZ A/A % V/V	A A B B	100 a	99 ab	97 a	87 b
3	RoundUp Weather Max NIS RoundUp Weather Max NIS	5.5 100 5.5 100	AS SL AS SL	16 0.25 16 0.25	OZ A/A % V/V OZ A/A % V/V	A A B B	100 a	99 b	100 a	80 b
4	Rimsulfuron RoundUp Weather Max Karmex DF NIS	25 5.5 80 100	WP AS WP SL	1 16 25.60 0.25	OZ A/A OZ A/A OZ A/A % V/V	A A A A	100 a	99 b	98 a	0 c
5	Rimsulfuron RoundUp Weather Max NIS Rimsulfuron NIS	25 5.5 100 25 100	WP AS SL WP SL	2 16 0.25 2 0.25	OZ A/A OZ A/A % V/V OZ A/A % V/V	A A A B B	100 a	100 a	100 a	100 a
6	Rimsulfuron RoundUp Weather Max NIS Rimsulfuron NIS	25 5.5 100 25 100	WP AS SL WP SL	1 16 0.25 1 0.25	OZ A/A OZ A/A % V/V OZ A/A % V/V	A A A B B	100 a	100 a	100 a	97 a
7	Rimsulfuron RoundUp Weather Max NIS Rimsulfuron NIS	25 5.5 100 25 100	WP AS SL WP SL	0.5 16 0.25 0.5 0.25	OZ A/A OZ A/A % V/V OZ A/A % V/V	A A A B B	100 a	100 ab	100 a	100 a
LSD (P=.05)							0.0	0.6	4.1	9.2
Standard Deviation							0.0	0.3	2.3	5.2
CV							0.0	0.41	2.68	7.85
Grand Mean							85.71	85.29	84.97	66.19
Bartlett's X2							0.0	0.0	6.254	0.862
P(Bartlett's X2)							.	1.00	0.012*	0.353
Replicate F							0.000	0.000	1.132	0.176
Replicate Prob(F)							1.0000	1.0000	0.3572	0.8404
Treatment F							0.000	35008.812	810.480	233.235
Treatment Prob(F)							1.0000	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.

Plant Name							Kochia	Hare Barley	Chenopod	Prickly Lettuce
Part Rated							Shoot	Shoot	Shoot	Shoot
Rating Date							22/Apr/2005	22/Apr/2005	22/Apr/2005	22/Apr/2005
Rating Data Type							Control	Control	Control	Control
Rating Unit							%	%	%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	25	26	27	28
1	Untreated Check						0 b	0 b	0 b	0 b
2	Karmex DF NIS RoundUp Weather Max NIS	80 100 5.5 100	WP SL AS SL	25.60 0.25 16 0.25	OZ % OZ % V/V	A A B B	90 a	100 a	97 a	100 a
3	RoundUp Weather Max NIS RoundUp Weather Max NIS	5.5 100 5.5 100	AS SL AS SL	16 0.25 16 0.25	OZ % OZ % V/V	A A B B	87 a	100 a	93 a	93 a
4	Rimsulfuron RoundUp Weather Max Karmex DF NIS	25 5.5 80 100	WP AS WP SL	1 16 25.60 0.25	OZ OZ OZ % V/V	A A A A	0 b	0 b	0 b	0 b
5	Rimsulfuron RoundUp Weather Max NIS Rimsulfuron NIS	25 5.5 100 25 100	WP AS SL WP SL	2 16 0.25 2 0.25	OZ OZ % OZ % V/V	A A A B B	96 a	100 a	100 a	100 a
6	Rimsulfuron RoundUp Weather Max NIS Rimsulfuron NIS	25 5.5 100 25 100	WP AS SL WP SL	1 16 0.25 1 0.25	OZ OZ % OZ % V/V	A A A B B	94 a	100 a	100 a	100 a
7	Rimsulfuron RoundUp Weather Max NIS Rimsulfuron NIS	25 5.5 100 25 100	WP AS SL WP SL	0.5 16 0.25 0.5 0.25	OZ OZ % OZ % V/V	A A A B B	88 a	100 a	75 a	100 a
LSD (P=.05)							8.6	0.0	31.1	7.8
Standard Deviation							4.8	0.0	17.5	4.4
CV							7.4	0.0	26.35	6.19
Grand Mean							65.05	71.43	66.43	70.48
Bartlett's X2							1.602	0.0	6.832	0.0
P(Bartlett's X2)							0.659	.	0.033*	.
Replicate F							1.635	0.000	0.665	1.000
Replicate Prob(F)							0.2355	1.0000	0.5325	0.3966
Treatment F							256.996	0.000	20.877	366.000
Treatment Prob(F)							0.0001	1.0000	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.

Plant Name							Rescue-Grass	Kochia	Russian Thistle	Prickly Lettuce
Part Rated							Shoot	Shoot	Shoot	Shoot
Rating Date							22/Apr/2005	3/May/2005	3/May/2005	3/May/2005
Rating Data Type							Control	Control	Control	Control
Rating Unit							%	%	%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	29	30	31	32
1	Untreated Check						0 b	0 b	5 b	0 b
2	Karmex DF NIS RoundUp Weather Max NIS	80 100 5.5 100	WP SL AS SL	25.60 0.25 16 0.25	OZ % OZ % V/V	A A B B	100 a	80 a	60 a	100 a
3	RoundUp Weather Max NIS RoundUp Weather Max NIS	5.5 100 5.5 100	AS SL AS SL	16 0.25 16 0.25	OZ % OZ % V/V	A A B B	100 a	78 a	50 a	100 a
4	Rimsulfuron RoundUp Weather Max Karmex DF NIS	25 5.5 80 100	WP AS WP SL	1 16 25.60 0.25	OZ OZ OZ % V/V	A A A A	0 b	0 b	100 a	100 a
5	Rimsulfuron RoundUp Weather Max NIS Rimsulfuron NIS	25 5.5 100 25 100	WP AS SL WP SL	2 16 0.25 2 0.25	OZ OZ % OZ % V/V	A A A B B	100 a	96 a	100 a	100 a
6	Rimsulfuron RoundUp Weather Max NIS Rimsulfuron NIS	25 5.5 100 25 100	WP AS SL WP SL	1 16 0.25 1 0.25	OZ OZ % OZ % V/V	A A A B B	92 a	96 a	100 a	100 a
7	Rimsulfuron RoundUp Weather Max NIS Rimsulfuron NIS	25 5.5 100 25 100	WP AS SL WP SL	0.5 16 0.25 0.5 0.25	OZ OZ % OZ % V/V	A A A B B	100 a	97 a	95 a	100 a
LSD (P=.05)							9.7	22.8	43.3	0.0
Standard Deviation							5.5	12.8	24.1	0.0
CV							7.77	20.05	33.08	0.0
Grand Mean							70.24	63.86	72.92	85.71
Bartlett's X2							0.0	15.101	6.352	0.0
P(Bartlett's X2)							.	0.004*	0.042*	.
Replicate F							1.000	2.072	2.731	0.000
Replicate Prob(F)							0.3966	0.1686	0.1089	1.0000
Treatment F							233.000	35.912	6.821	0.000
Treatment Prob(F)							0.0001	0.0001	0.0032	1.0000

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.

Plant Name							Junglerice	Common Purslane	Palmer amaranth	Tall Morning-Glory
Part Rated							Shoot	Shoot	Shoot	Shoot
Rating Date							14/Jun/2005	14/Jun/2005	14/Jun/2005	14/Jun/2005
Rating Data Type							Control	Control	Control	Control
Rating Unit							%	%	%	%
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	33	34	35	36
1	Untreated Check						0 b	0 a	0 a	0 b
2	Karmex DF	80	WP	25.60	OZ A/A	A	33 ab	27 a	67 a	100 a
	NIS	100	SL	0.25	% V/V	A				
	RoundUp	5.5	AS	16	OZ A/A	B				
	Weather Max NIS	100	SL	0.25	% V/V	B				
3	RoundUp	5.5	AS	16	OZ A/A	A	37 ab	23 a	100 a	67 a
	Weather Max NIS	100	SL	0.25	% V/V	A				
	RoundUp	5.5	AS	16	OZ A/A	B				
	Weather Max NIS	100	SL	0.25	% V/V	B				
4	Rimsulfuron	25	WP	1	OZ A/A	A	42 ab	50 a	50 a	83 a
	RoundUp	5.5	AS	16	OZ A/A	A				
	Weather Max Karmex DF	80	WP	25.60	OZ A/A	A				
	NIS	100	SL	0.25	% V/V	A				
5	Rimsulfuron	25	WP	2	OZ A/A	A	75 a	90 a	100 a	63 a
	RoundUp	5.5	AS	16	OZ A/A	A				
	Weather Max NIS	100	SL	0.25	% V/V	A				
	Rimsulfuron	25	WP	2	OZ A/A	B				
	NIS	100	SL	0.25	% V/V	B				
6	Rimsulfuron	25	WP	1	OZ A/A	A	88 a	93 a	67 a	100 a
	RoundUp	5.5	AS	16	OZ A/A	A				
	Weather Max NIS	100	SL	0.25	% V/V	A				
	Rimsulfuron	25	WP	1	OZ A/A	B				
	NIS	100	SL	0.25	% V/V	B				
7	Rimsulfuron	25	WP	0.5	OZ A/A	A	48 ab	60 a	100 a	83 a
	RoundUp	5.5	AS	16	OZ A/A	A				
	Weather Max NIS	100	SL	0.25	% V/V	A				
	Rimsulfuron	25	WP	0.5	OZ A/A	B				
	NIS	100	SL	0.25	% V/V	B				
LSD (P=.05)							42.0	65.0	66.3	45.3
Standard Deviation							23.6	36.5	37.3	25.4
CV							51.14	74.49	53.97	35.87
Grand Mean							46.14	49.05	69.05	70.95
Bartlett's X2							7.805	4.838	0.05	1.543
P(Bartlett's X2)							0.167	0.436	0.975	0.672
Replicate F							5.120	1.042	0.600	6.404
Replicate Prob(F)							0.0247	0.3827	0.5645	0.0128
Treatment F							4.491	2.744	2.886	5.485
Treatment Prob(F)							0.0130	0.0645	0.0559	0.0061

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.

Plant Name							Spurred anoda Shoot 14/Jun/2005 Control %	Common purslane Shoot 14/Jul/2005 Control %	Jungle-rice Shoot 14/Jul/2005 Control %	Mexican sprangletop Shoot 14/Jul/2005 Control %
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Appl Code	37	38	39	40
1	Untreated Check						0 b	0 a	0 b	0 a
2	Karmex DF NIS RoundUp Weather Max NIS	80 100 5.5 100	WP SL AS SL	25.60 0.25 16 0.25	OZ % OZ %	A/A A A B B	67 a	30 a	33 ab	40 a
3	RoundUp Weather Max NIS RoundUp Weather Max NIS	5.5 100 5.5 100	AS SL AS SL	16 0.25 16 0.25	OZ % OZ %	A/A A B B	67 a	0 a	17 ab	17 a
4	Rimsulfuron RoundUp Weather Max Karmex DF NIS	25 5.5 80 100	WP AS WP SL	1 16 25.60 0.25	OZ OZ OZ %	A/A A A A	90 a	33 a	33 ab	33 a
5	Rimsulfuron RoundUp Weather Max NIS Rimsulfuron NIS	25 5.5 100 25 100	WP AS SL WP SL	2 16 0.25 2 0.25	OZ OZ % OZ %	A/A A A B B	100 a	67 a	63 a	78 a
6	Rimsulfuron RoundUp Weather Max NIS Rimsulfuron NIS	25 5.5 100 25 100	WP AS SL WP SL	1 16 0.25 1 0.25	OZ OZ % OZ %	A/A A A B B	83 a	50 a	73 a	72 a
7	Rimsulfuron RoundUp Weather Max NIS Rimsulfuron NIS	25 5.5 100 25 100	WP AS SL WP SL	0.5 16 0.25 0.5 0.25	OZ OZ % OZ %	A/A A A B B	97 a	33 a	0 b	48 a
LSD (P=.05)							53.6	86.8	40.0	52.0
Standard Deviation							30.1	48.8	22.5	29.2
CV							41.86	160.0	71.6	70.91
Grand Mean							71.9	30.48	31.43	41.19
Bartlett's X2							10.042	0.068	6.242	1.308
P(Bartlett's X2)							0.04*	0.999	0.182	0.934
Replicate F							1.957	0.393	0.007	0.671
Replicate Prob(F)							0.1839	0.6837	0.9930	0.5293
Treatment F							3.911	0.750	4.912	2.767
Treatment Prob(F)							0.0213	0.6215	0.0093	0.0631

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.

OTERO COUNTY TRIAL INFORMATION
Alamogordo New Mexico

2004-2005 ALAMOGORDO RAINFALL DATA
Alamogordo/White Sands METAR Weather Station

Elevation: 4199.475 Ft
Latitude: 32° 50' 0" N Longitude: 105° 59' 0" W

Rainfall in inches

	2004			2005									
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	0	0	0	0	0	0	0	0	0	0	0	0.03	0
2	0	0	0	0.01	0	0	0	0	0	0	0	0	0
3	0	0	0	0.07	0	0	0	0	0	0	0	0	0
4	0	0	0	0.04	0	0	0	0	0	0	0.03	0	0.09
5	0	0	0	0	0.09	0	0	0	0	0	0.01	0	0
6	0	0	0	0	0.03	0.06	0	0	0	0	0.03	0.62	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0.01	0	0	0	0	0	0	0	0
11	0	0	0	0	0.09	0	0	0	0	0	0	0	0
12	0	0	0	0	0.09	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0.11	0	0
14	0	0	0	0	0	0	0	0	0	0	0.02	0	0
15	0	0	0	0	0	0.01	0	0.01	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0.02	0	0
18	0	0	0	0	0	0	0	0	0	0	0.02	0	0
19	0	0	0	0	0.04	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0.01	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0.01	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0.03	0	0
24	0	0	0	0	0.15	0	0.18	0	0	0	0.04	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0.01	0	0	0	0.12	0	0.01	0	0	0
27	0	0	0	0.11	0	0	0	0.02	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0.05	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0	0
31	0		0	0		0		0		0	0		0
Total	0	0	0	0.24	0.51	0.07	0.23	0.15	0	0.01	0.32	0.65	0.09

SITE AND DESIGN**Plot Width, Unit:** 10 ft**Replications:** 4**Site Type:** Non-irrigated fenced pasture**Study Design:** Randomized Complete Block**MOISTURE CONDITIONS****Closest Weather Station:** Alamogordo/White Sands METAR**Distance:** 2**Unit:** MI**Overall Moisture Conditions:** Dry**APPLICATION DESCRIPTION****A****Application Date:** 14/Oct/2004**Time of Day:** Morning**Application Method:** Spray**Application Timing:** Prior to hard frost**Application Placement:** Overtop**Applied By:** Justin**Air Temperature, Unit:** 67 F**% Relative Humidity:** 69**Wind Velocity, Unit:** 0**Dew Presence (Y/N):** N**Soil Temperature, Unit:** 65**Soil Moisture:** Moist**% Cloud Cover:** 0**APPLICATION EQUIPMENT****A****Appl. Equipment:** Backpack**Operating Pressure:** 20**Pressure Unit:** PSI**Nozzle Type:** Teejet**Nozzle Size:** 11002**Nozzle Spacing, Unit:** 20 Inch**Nozzle/Row:** 2**Band Width, Unit:** 20 Inch**Boom Height, Unit:** 18 Inch**Ground Speed, Unit:** 2 MPH**Incorporation Equip.:** N/A**Hours to Incorp.:** N/A**Carrier:** Water**Spray Volume:** 20**Volume Unit:** Gal/Ac**Propellant:** CO2

Plant Name Rating Date Rating Data Type Rating Unit					Russian Knapweed 19/Apr/2005 Cover Percent	Kochia 19/Apr/2005 Cover Percent	Mustard 19/Apr/2005 Cover Percent	Russian Knapweed 30/Jun/2005 Cover Percent
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	1	2	3	4
1	Telar Kinetic	75 99	DF SL	0.047 0.125 lb ai/a % v/v	0 b	5 c	0 b	12 b
2	Telar Kinetic	75 99	DF SL	0.094 0.125 lb ai/a % v/v	0 b	2 c	0 b	8 b
3	Telar Kinetic Transline	75 99 3	DF SL EC	0.047 0.125 lb ai/a % v/v	0 b	4 c	0 b	3 b
4	Telar Kinetic Transline	75 99 3	DF SL EC	0.047 0.25 lb ai/a % v/v	0 b	1 c	0 b	9 b
5	Telar Transline Kinetic	75 3 99	DF EC SL	0.094 0.125 lb ai/a % v/v	0 b	2 c	0 b	2 b
6	Telar Transline Kinetic	75 3 99	DF EC SL	0.094 0.25 lb ai/a % v/v	0 b	2 c	0 b	0 b
7	Transline Kinetic	3 99	EC SL	0.125 0.125 lb ai/a % v/v	7 b	13 c	50 a	17 b
8	Transline Kinetic	3 99	EC SL	0.25 0.125 lb ai/a % v/v	2 b	50 a	22 b	6 b
9	Telar Tordon 22K Kinetic	75 2 99	DF EC SL	0.047 0.25 lb ai/a % v/v	0 b	0 c	0 b	6 b
10	Telar Tordon 22K Kinetic	75 2 99	DF EC SL	0.094 0.25 lb ai/a % v/v	0 b	0 c	0 b	3 b
11	Tordon 22K Kinetic	2 99	EC SL	0.25 0.125 lb ai/a % v/v	2 b	35 ab	2 b	15 b
12	Transline Kinetic	3 99	EC SL	0.375 0.125 lb ai/a % v/v	0 b	47 a	23 b	0 b
13	Tordon 22K Kinetic	2 99	EC SL	0.5 0.125 lb ai/a % v/v	0 b	40 a	2 b	4 b
14	Arsenal Kinetic	2 99	EC SL	0.5 0.125 lb ai/a % v/v	17 b	12 c	0 b	15 b
15	Control				45 a	22 bc	18 b	68 a
LSD (P=.05)					15.3	13.6	15.6	16.5
Standard Deviation					9.1	8.1	9.3	9.8
CV					185.94	52.01	119.26	87.37
Grand Mean					4.91	15.62	7.82	11.27
Bartlett's X2					32.156	26.943	12.993	25.773
P(Bartlett's X2)					0.001*	0.008*	0.023*	0.012*
Replicate F					1.331	0.446	3.972	0.076
Replicate Prob(F)					0.2805	0.6449	0.0303	0.9267
Treatment F					5.173	15.194	7.240	8.656
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.

Plant Name					Kochia	Silverleaf Nightshad	Russian knapweed	Kochia
Rating Date					30/Jun/2005	30/Jun/2005	31/Oct/2005	31/Oct/2005
Rating Data Type					Cover	Cover	Cover	Cover
Rating Unit					Percent	Percent	Percent	Percent
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	5	6	9	10
1	Telar Kinetic	75 99	DF SL	0.047 0.125 lb ai/a % v/v	23 cd	0 a	15 b	20 abc
2	Telar Kinetic	75 99	DF SL	0.094 0.125 lb ai/a % v/v	13 cd	1 a	30 a	7 bc
3	Telar Kinetic Transline	75 99 3	DF SL EC	0.047 0.125 lb ai/a 0.125 % v/v	12 cd	0 a	7 bc	8 bc
4	Telar Kinetic Transline	75 99 3	DF SL EC	0.047 0.25 lb ai/a 0.125 % v/v	7 d	0 a	18 b	9 bc
5	Telar Transline Kinetic	75 3 99	DF EC SL	0.094 0.125 lb ai/a 0.125 % v/v	7 d	0 a	8 bc	7 bc
6	Telar Transline Kinetic	75 3 99	DF EC SL	0.094 0.25 lb ai/a 0.125 % v/v	6 d	0 a	8 bc	8 bc
7	Transline Kinetic	3 99	EC SL	0.125 lb ai/a 0.125 % v/v	38 bc	0 a	12 bc	17 abc
8	Transline Kinetic	3 99	EC SL	0.25 lb ai/a 0.125 % v/v	57 ab	0 a	2 c	20 abc
9	Telar Tordon 22K Kinetic	75 2 99	DF EC SL	0.047 0.25 lb ai/a 0.125 % v/v	1 d	0 a	17 b	2 c
10	Telar Tordon 22K Kinetic	75 2 99	DF EC SL	0.094 0.25 lb ai/a 0.125 % v/v	2 d	0 a	17 b	2 c
11	Tordon 22K Kinetic	2 99	EC SL	0.25 lb ai/a 0.125 % v/v	68 a	0 a	2 c	28 ab
12	Transline Kinetic	3 99	EC SL	0.375 lb ai/a 0.125 % v/v	60 ab	0 a	5 bc	17 abc
13	Tordon 22K Kinetic	2 99	EC SL	0.5 lb ai/a 0.125 % v/v	70 a	0 a	7 bc	23 abc
14	Arsenal Kinetic	2 99	EC SL	0.5 lb ai/a 0.125 % v/v	2 d	0 a	18 b	7 bc
15	Control				23 cd	0 a	15 b	33 a
LSD (P=.05)					19.2	0.6	7.7	14.0
Standard Deviation					11.5	0.3	4.6	8.4
CV					44.12	385.57	38.01	60.77
Grand Mean					26.0	0.09	12.09	13.82
Bartlett's X2					24.461	1.346	6.701	25.895
P(Bartlett's X2)					0.04*	0.51	0.877	0.018*
Replicate F					3.212	3.027	1.532	3.615
Replicate Prob(F)					0.0555	0.0645	0.2336	0.0401
Treatment F					15.073	1.000	7.988	3.969
Treatment Prob(F)					0.0001	0.4793	0.0001	0.0009

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.

Plant Name						Silverleaf Nightshad	Russian Thistle
Rating Date						31/Oct/2005	31/Oct/2005
Rating Data Type						Cover	Cover
Rating Unit						Percent	Percent
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	11	12
1	Telar Kinetic	75 99	DF SL	0.047 0.125	lb ai/a % v/v	2 a	0 b
2	Telar Kinetic	75 99	DF SL	0.094 0.125	lb ai/a % v/v	2 a	0 b
3	Telar Kinetic Transline	75 99 3	DF SL EC	0.047 0.125 0.125	lb ai/a lb ai/a % v/v	1 a	0 b
4	Telar Kinetic Transline	75 99 3	DF SL EC	0.047 0.25 0.125	lb ai/a lb ai/a % v/v	0 a	0 b
5	Telar Transline Kinetic	75 3 99	DF EC SL	0.094 0.125 0.125	lb ai/a lb ai/a % v/v	2 a	0 b
6	Telar Transline Kinetic	75 3 99	DF EC SL	0.094 0.25 0.125	lb ai/a lb ai/a % v/v	2 a	0 b
7	Transline Kinetic	3 99	EC SL	0.125 0.125	lb ai/a % v/v	2 a	7 a
8	Transline Kinetic	3 99	EC SL	0.25 0.125	lb ai/a % v/v	2 a	1 b
9	Telar Tordon 22K Kinetic	75 2 99	DF EC SL	0.047 0.25 0.125	lb ai/a lb ai/a % v/v	0 a	0 b
10	Telar Tordon 22K Kinetic	75 2 99	DF EC SL	0.094 0.25 0.125	lb ai/a lb ai/a % v/v	0 a	0 b
11	Tordon 22K Kinetic	2 99	EC SL	0.25 0.125	lb ai/a % v/v	0 a	2 b
12	Transline Kinetic	3 99	EC SL	0.375 0.125	lb ai/a % v/v	2 a	1 b
13	Tordon 22K Kinetic	2 99	EC SL	0.5 0.125	lb ai/a % v/v	0 a	0 b
14	Arsenal Kinetic	2 99	EC SL	0.5 0.125	lb ai/a % v/v	0 a	0 b
15	Control					2 a	2 b
LSD (P=.05)						3.4	3.0
Standard Deviation						2.0	1.8
CV						188.83	239.85
Grand Mean						1.07	0.76
Bartlett's X2						14.572	6.551
P(Bartlett's X2)						0.266	0.162
Replicate F						3.171	2.037
Replicate Prob(F)						0.0573	0.1493
Treatment F						0.413	2.762
Treatment Prob(F)						0.9577	0.0107

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.

SAN JUAN COUNTY TRIAL INFORMATION
Farmington New Mexico

2004-2005 FARMINGTON RAINFALL DATA
Farmington METAR Weather Station

Elevation: 5528.215 Ft
Latitude: 36° 45' 0" N Longitude: 108° 14' 0" W

Rainfall in inches¹

	2004				2005									
	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	0	0	0	0	0	0	0	0	0.07	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0.02	0	0	0	0	0
3	0	0	0	0	0.03	0	0	0	0.02	0.03	0	0	0.01	0
4	0	0	0	0	0.02	0	0	0.01	0	0	0	0	0	0
5	0	0	0	0	0.04	0	0.01	0	0	0	0	0.04	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0.1	0	0
7	0	0	0	0	0	0.07	0	0	0	0	0	0	0	0
8	0	0	0	0	0.01	0.03	0	0	0	0	0	0	0.65	0.11
9	0	0	0	0	0	0	0	0	0	0	0	0.02	0	0.13
10	0	0	0	0	0.09	0	0	0	0	0	0	0	0	0.04
11	0	0	0	0	0.1	0.04	0	0	0	0.01	0	0.1	0	0
12	0	0	0	0	0.01	0.06	0	0	0	0	0	0.03	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0.05	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07
16	0	0	0	0	0	0.02	0	0	0	0	0	0.13	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0.07	0	0	0	0	0	0	0	0.07
19	0	0	0	0	0	0.09	0.01	0	0	0	0	0	0	0.16
20	0	0	0	0	0	0.01	0.04	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0.02	0	0	0	0	0	0	0.05	0
23	0	0	0	0	0	0.01	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0.01	0	0.35	0	0	0.1	0	0	0
25	0	0	0	0	0	0	0.03	0.01	0	0.01	0.03	0	0	0
26	0	0	0	0	0.08	0	0.02	0	0	0	0.03	0	0	0
27	0	0	0	0	0.02	0	0	0	0	0	0	0	0.05	0
28	0	0	0	0	0	0	0	0.06	0	0	0	0	0.04	0
29	0	0	0	0	0.01		0.01	0	0	0	0	0	0	0
30	0	0	0	0	0.03		0	0	0	0	0	0	0	0
31		0		0	0		0		0		0	0		0
Total	0	0	0	0	0.44	0.43	0.12	0.43	0.11	0.05	0.16	0.47	0.8	0.58

¹ "--" = No data obtained for dates.

Trial ID: Farmington knapweed **Russian knapweed management in San Juan County**

SITE AND DESIGN

Plot Width, Unit: 20 x 100 ft

Replications: 4

Site Type: Non-irrigated pasture

Study Design: Randomized Complete Block

MOISTURE CONDITIONS

Closest Weather Station: Farminton

Distance: **Unit:** MI

Overall Moisture Conditions: Dry

APPLICATION DESCRIPTION

A

Application Date: 09/01/2004; 10/04/2004; 11/04/2004

Application Method: Spray

Application Volume: 20 gal/A

Application Timing: POST

Application Placement: Overtop

Plant Name						Russian Knapweed	Russian Knapweed
Rating Date						1/Jan/2005	1/Oct/2005
Rating Data Type						Control	Control
Rating Unit						Percent	Percent
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Appl Unit Code	1	2
1	Untreated Control			Sept		0 d	9 c
2	Untreated Control			Oct		0 d	27 c
3	Untreated Control			Nov		0 d	15 c
4	Picloram + 2,4-D Nonionic surfactant	EC		2 qt/a 0.5 % v/v	Sept Sept	93 a	98 a
5	Picloram Nonionic surfactant	EC		1 qt/a 0.5 % v/v	Sept Sept	97 a	100 a
6	Clopyralid Nonionic surfactant	EC		1 pt/a 0.5 % v/v	Sept Sept	98 a	95 a
7	Imazapic Methlyated Seed Oil	EC EC		12 fl oz/a 1 qt/a	Sept Sept	20 c	20 c
8	Imazapyr Nonionic surfactant	EC		1 pt/a 0.5 % v/v	Sept Sept	80 ab	85 a
9	Triclopyr + Clopyralid Nonionic surfactant	EC		1.5 pt/a 0.5 % v/v	Sept Sept	67 b	55 b
10	Picloram + 2,4-D Nonionic surfactant	EC		2 qt/a 0.5 % v/v	Oct Oct	91 a	86 a
11	Picloram Nonionic surfactant	EC		1 qt/a 0.5 % v/v	Oct Oct	100 a	99 a
12	Clopyralid Nonionic surfactant	EC		1.6 pt/a 0.5 % v/v	Oct Oct	92 a	78 a
13	Imazapic Methlyated Seed Oil	EC EC		192 fl oz/a 1 qt/a	Oct Oct	27 c	33 c
14	Imazapyr Nonionic surfactant	EC		1 pt/a 0.5 % v/v	Oct Oct	91 a	85 a
15	Triclopyr + Clopyralid Nonionic surfactant	EC		1.5 pt/a 0.5 % v/v	Oct Oct	93 a	77 a
16	Picloram + 2,4-D Nonionic surfactant	EC		2 qt/a 0.5 % v/v	Nov Nov	100 a	93 a
17	Picloram Nonionic surfactant	EC		1 qt/a 0.5 % v/v	Nov Nov	100 a	100 a
18	Clopyralid Nonionic surfactant	EC		1 pt/a 0.5 % v/v	Nov Nov	100 a	90 a
19	Imazapic Methlyated Seed Oil	EC EC		192 fl oz/a 0.8 qt/a	Nov Nov	33 c	25 c
20	Imazapyr Nonionic surfactant	EC		1 pt/a 0.5 % v/v	Nov Nov	100 a	98 a
21	Triclopyr + Clopyralid Nonionic surfactant	EC		1.5 pt/a 0.5 % v/v	Nov Nov	100 a	100 a
LSD (P=.05)						14.8	19.3
Standard Deviation						9.0	11.7
CV						12.7	16.7
Grand Mean						70.49	69.89
Bartlett's X2						35.279	47.831
P(Bartlett's X2)						0.001*	0.001*
Replicate F						2.354	4.063
Replicate Prob(F)						0.1080	0.0247
Treatment F						55.724	24.500
Treatment Prob(F)						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.

EDDY COUNTY TRIAL INFORMATION
Loving New Mexico

2005CARLSBAD RAINFALL DATA
Carlsbad SE

Elevation: 3471.129Ft
Latitude: 32° 24' 4.68" N Longitude: 104° 15' 16.14" W

Rainfall in inches²

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
1	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0.01	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0
5	0	0.12	0	0	0	0	0	0	0	0	0
6	0	0.04	0.01	0	0.24	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0.02	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0
11	0	0.02	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0.01	0	0	0	0	0	0	0	0
15	0	0	0.08	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0
18	0	0.02	0	0	0	0	0	0	0	0	0
19	0	0.02	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0
23	0	0.08	0	0	0	0	0	0	0	0	0
24	0	0.06	0	0.01	0	0	0	0	0	0	0
25	0	0.05	0	0	0	0	0	0	0	0	0
26	0.03	0	0.14	0	0	0	0	0	0	0	0
27	0.05	0.01	0	0	0	0	0	0	0	0	0
28	0.01	0	0	0	0	0	0	0	0	0	0
29	0		0	0	0	0	0	0	0	0	0
30	0		0	0	0	0	0	0	0	0	0
31	0		0		0		0	0		0	
Total	0.09	0.42	0.26	0.01	0.25	0	0	0	0	0	0

² "--" = No data obtained for dates.

CROP DESCRIPTION

Crop: Alfalfa *Medicago sativa*
Planting Method: Direct seeded
Perennial Age, Unit: 2 years
Soil Moisture: Good

Planting Date: Fall 2003

SITE AND DESIGN

Plot Width, Unit: 10 x 30 ft
Replications: 4

Site Type: Field
Study Design: Randomized Complete Block

MOISTURE CONDITIONS

Closest Weather Station: Carlsbad SE **Distance:** 15 **Unit:** MI
Overall Moisture Conditions: Good throughout the year

APPLICATION DESCRIPTION

	A	B
Application Date:	02/21/05	05/12/2005
Time of Day:	Morning	Morning
Application Method:	Spray	Spray
Application Timing:	Semidormant	1 st Cut
Application Placement:	Overtop	Overtop
Applied By:	Justin	Justin
Air Temperature, Unit:	61 F	75 F
% Relative Humidity:	48	32
Wind Velocity, Unit:	2	0
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	52 F	70 F
Soil Moisture:	Good	Dry
% Cloud Cover:	80	0

CROP STAGE

APPLICATION	A	B
Height, Unit:	Inches	Inches
Height Minimum, Maximum	0.5-1	0.5-1

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	Backpack	Backpack
Operating Pressure:	24	20
Pressure Unit:	PSI	PSI
Nozzle Type:	Teejet	Teejet
Nozzle Size:	11002	11002
Nozzle Spacing, Unit:	20 Inch	20 Inch
Nozzle/Row:	6	6
Band Width, Unit:	20 Inch	20 Inch
Boom Height, Unit:	18 Inch	18 Inch
Ground Speed, Unit:	3 MPH	3 MPH
Incorporation Equip.:	N/A	N/A
Hours to Incorp.:	N/A	N/A
Carrier:	Water	Water
Spray Volume:	15	15
Volume Unit:	Gal/Ac	Gal/Ac
Propellant:	CO2	CO2

COMMENTS

Around June 27, 2005 West field was burned so rating was not taken for that field after that date.

Plant Name Description Rating Date Rating Data Type Rating Unit						Alfalfa West Field 16/Mar/2005 Injury %	London rocket West Field 16/Mar/2005 Control %	Alfalfa East Field 16/Mar/2005 Injury %	London rocket East Field 16/Mar/2005 Control %	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Appl Code	1	2	3	4
1	Untreated Check						0 c	0 d	0 c	0 c
2	Flumioxazin NIS	51 100	DG SF	0.125 0.25	LB A/A % V/V	A A	33 b	38 c	13 b	18 bc
3	Flumioxazin NIS	51 100	DG SF	0.25 0.25	LB A/A % V/V	A A	38 a	66 b	24 a	36 b
4	Flumioxazin NIS	51 100	DG SF	0.25 0.25	LB A/A % V/V	B B				
5	Flumioxazin NIS Flumioxazin NIS	51 100 51 100	DG SF DG SF	0.125 0.25 0.125 0.25	LB A/A % V/V LB A/A % V/V	A A B B	30 b	40 c	19 ab	13 bc
6	Pursuit NIS Amonium Sulfate	70 100 100	DG SF DG	0.00945 0.25 2.5	LB A/A % V/V LB A/A	A A A	0 c	99 a	3 c	99 a
7	Pursuit NIS Amonium Sulfate	70 100 100	DG SF DG	0.00945 0.25 2.5	LB A/A % V/V LB A/A	B B B				
8	Raptor NIS Amonium Sulfate	1 100 100	SL SF DG	.046875 0.25 2.5	LB A/A % V/V LB A/A	A A A	1 c	98 a	0 c	96 a
9	Raptor NIS Amonium Sulfate	1 100 100	SL SF DG	.046875 0.25 2.5	LB A/A % V/V LB A/A	B B B				
LSD (P=.05)							4.6	20.2	8.1	19.8
Standard Deviation							3.1	13.4	5.4	13.1
CV							18.14	23.65	56.09	30.21
Grand Mean							16.88	56.71	9.58	43.42
Bartlett's X2							1.689	15.137	1.714	17.042
P(Bartlett's X2)							0.639	0.002*	0.634	0.002*
Replicate F							1.000	1.204	2.356	0.192
Replicate Prob(F)							0.4199	0.3422	0.1130	0.9005
Treatment F							141.267	32.951	14.596	43.433
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.

Plant Name Description Rating Date Rating Data Type Rating Unit							Alfalfa West Field 8/Apr/2005 Injury %	London rocket West Field 8/Apr/2005 Control %	Alfalfa East Field 8/Apr/2005 Injury %	London rocket East Field 8/Apr/2005 Control %
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	5	6	7	8
1	Untreated Check						5 a	24 b	5 a	0 b
2	Flumioxazin NIS	51 100	DG SF	0.125 0.25	LB A/A % V/V	A A	5 a	65 a	5 a	21 b
3	Flumioxazin NIS	51 100	DG SF	0.25 0.25	LB A/A % V/V	A A	5 a	95 a	5 a	16 b
4	Flumioxazin NIS	51 100	DG SF	0.25 0.25	LB A/A % V/V	B B				
5	Flumioxazin NIS Flumioxazin NIS	51 100 51 100	DG SF DG SF	0.125 0.25 0.125 0.25	LB A/A % V/V LB A/A % V/V	A A B B	5 a	76 a	5 a	16 b
6	Pursuit NIS Amonium Sulfate	70 100 100	DG SF DG	0.00945 0.25 2.5	LB A/A % V/V LB A/A	A A A	5 a	95 a	5 a	38 b
7	Pursuit NIS Amonium Sulfate	70 100 100	DG SF DG	0.00945 0.25 2.5	LB A/A % V/V LB A/A	B B B				
8	Raptor NIS Amonium Sulfate	1 100 100	SL SF DG	.046875 0.25 2.5	LB A/A % V/V LB A/A	A A A	5 a	99 a	5 a	99 a
9	Raptor NIS Amonium Sulfate	1 100 100	SL SF DG	.046875 0.25 2.5	LB A/A % V/V LB A/A	B B B				
LSD (P=.05)							0.0	39.8	0.0	26.0
Standard Deviation							0.0	26.4	0.0	17.3
CV							0.0	35.03	0.0	54.59
Grand Mean							5.0	75.42	5.0	31.63
Bartlett's X2							0.0	28.945	0.0	16.65
P(Bartlett's X2)							.	0.001*	.	0.002*
Replicate F							0.000	0.545	0.000	0.517
Replicate Prob(F)							1.0000	0.6592	1.0000	0.6766
Treatment F							0.000	4.666	0.000	16.337
Treatment Prob(F)							1.0000	0.0091	1.0000	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.

Plant Name Description Rating Date Rating Data Type Rating Unit							Sowthistle East Field 8/Apr/2005 Control %	Dodder East Field 12/Apr/2005 Cover %	Dodder West Field 12/Apr/2005 Cover %	Alfalfa West Field 18/Apr/2005 Injury %
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	9	10	11	12
1	Untreated Check						0 b	5 a	1 a	3 a
2	Flumioxazin NIS	51 100	DG SF	0.125 0.25	LB A/A % V/V	A A	50 ab	0 a	0 a	1 a
3	Flumioxazin NIS	51 100	DG SF	0.25 0.25	LB A/A % V/V	A A	25 ab	0 a	0 a	1 a
4	Flumioxazin NIS	51 100	DG SF	0.25 0.25	LB A/A % V/V	B B				
5	Flumioxazin NIS Flumioxazin NIS	51 100 51 100	DG SF DG SF	0.125 0.25 0.125 0.25	LB A/A % V/V LB A/A % V/V	A A B B	70 ab	0 a	0 a	1 a
6	Pursuit NIS Amonium Sulfate	70 100 100	DG SF DG	0.00945 0.25 2.5	LB A/A % V/V LB A/A	A A A	100 a	1 a	0 a	1 a
7	Pursuit NIS Amonium Sulfate	70 100 100	DG SF DG	0.00945 0.25 2.5	LB A/A % V/V LB A/A	B B B				
8	Raptor NIS Amonium Sulfate	1 100 100	SL SF DG	.046875 0.25 2.5	LB A/A % V/V LB A/A	A A A	98 a	3 a	1 a	1 a
9	Raptor NIS Amonium Sulfate	1 100 100	SL SF DG	.046875 0.25 2.5	LB A/A % V/V LB A/A	B B B				
LSD (P=.05)							58.4	3.9	1.0	1.5
Standard Deviation							38.7	2.6	0.6	1.0
CV							67.84	194.78	252.98	69.99
Grand Mean							57.08	1.33	0.25	1.46
Bartlett's X2							10.279	13.388	2.559	2.929
P(Bartlett's X2)							0.016*	0.004*	0.465	0.711
Replicate F							0.418	0.115	1.250	49.000
Replicate Prob(F)							0.7429	0.9497	0.3268	0.0001
Treatment F							4.257	2.189	0.500	1.000
Treatment Prob(F)							0.0131	0.1100	0.7716	0.4509

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.

Plant Name Description Rating Date Rating Data Type Rating Unit							London rocket West Field 18/Apr/2005 Control %	Annual grass West Field 18/Apr/2005 Cover %	Alfalfa East Field 18/Apr/2005 Injury %	London rocket East Field 18/Apr/2005 Control %
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	13	14	15	16
1	Untreated Check						56 b	0 a	0 a	15 b
2	Flumioxazin NIS	51 100	DG SF	0.125 0.25	LB % V/V	A/A A	90 a	0 a	1 a	19 ab
3	Flumioxazin NIS	51 100	DG SF	0.25 0.25	LB % V/V	A/A A	96 a	0 a	6 a	50 ab
4	Flumioxazin NIS	51 100	DG SF	0.25 0.25	LB % V/V	A/A B				
5	Flumioxazin NIS Flumioxazin NIS	51 100 51 100	DG SF DG SF	0.125 0.25 0.125 0.25	LB % V/V LB % V/V	A/A A A/A B	93 a	0 a	5 a	28 ab
6	Pursuit NIS Amonium Sulfate	70 100 100	DG SF DG	0.00945 0.25 2.5	LB % V/V LB	A/A A A/A	100 a	0 a	0 a	40 ab
7	Pursuit NIS Amonium Sulfate	70 100 100	DG SF DG	0.00945 0.25 2.5	LB % V/V LB	A/A B A/A				
8	Raptor NIS Amonium Sulfate	1 100 100	SL SF DG	.046875 0.25 2.5	LB % V/V LB	A/A A A/A	100 a	0 a	0 a	75 a
9	Raptor NIS Amonium Sulfate	1 100 100	SL SF DG	.046875 0.25 2.5	LB % V/V LB	A/A B A/A				
LSD (P=.05)							26.4	0.0	4.5	39.1
Standard Deviation							17.5	0.0	3.0	25.9
CV							19.61	0.0	143.11	68.75
Grand Mean							89.21	0.0	2.08	37.71
Bartlett's X2							9.87	0.0	1.166	3.788
P(Bartlett's X2)							0.02*	.	0.558	0.58
Replicate F							1.868	0.000	0.156	3.527
Replicate Prob(F)							0.1783	1.0000	0.9240	0.0410
Treatment F							3.612	0.000	3.563	3.007
Treatment Prob(F)							0.0241	1.0000	0.0253	0.0447

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.

Plant Name Description Rating Date Rating Data Type Rating Unit							Annual grass East Field 18/Apr/2005 Cover %	Alfalfa East Field 18/Apr/2005 Yield g/ft ²	Alfalfa West Field 18/Apr/2005 Yield g/ft ²	Alfalfa West Field 26/May/2005 Injury %
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	17	18	19	20
1	Untreated Check						0 a	28 a	31 a	1 b
2	Flumioxazin NIS	51 100	DG SF	0.125 0.25	LB % V/V	A/A A	0 a	20 a	30 a	3 b
3	Flumioxazin NIS	51 100	DG SF	0.25 0.25	LB % V/V	A/A A	3 a	27 a	26 a	3 b
4	Flumioxazin NIS	51 100	DG SF	0.25 0.25	LB % V/V	A/A B				25 a
5	Flumioxazin NIS Flumioxazin NIS	51 100 51 100	DG SF DG SF	0.125 0.25 0.125 0.25	LB % V/V LB % V/V	A/A A B B	0 a	25 a	32 a	23 a
6	Pursuit NIS Amonium Sulfate	70 100 100	DG SF DG	0.00945 0.25 2.5	LB % V/V LB	A/A A A	3 a	27 a	38 a	1 b
7	Pursuit NIS Amonium Sulfate	70 100 100	DG SF DG	0.00945 0.25 2.5	LB % V/V LB	A/A B B				1 b
8	Raptor NIS Amonium Sulfate	1 100 100	SL SF DG	.046875 0.25 2.5	LB % V/V LB	A/A A A	1 a	28 a	30 a	3 b
9	Raptor NIS Amonium Sulfate	1 100 100	SL SF DG	.046875 0.25 2.5	LB % V/V LB	A/A B B				4 b
LSD (P=.05)							3.7	10.5	13.5	5.1
Standard Deviation							2.5	7.0	8.9	3.5
CV							210.15	27.06	28.47	50.44
Grand Mean							1.17	25.81	31.37	6.94
Bartlett's X2							1.607	2.781	14.688	5.802
P(Bartlett's X2)							0.448	0.734	0.012*	0.669
Replicate F							0.961	0.277	0.794	2.189
Replicate Prob(F)							0.4365	0.8411	0.5160	0.1155
Treatment F							1.325	0.736	0.743	29.943
Treatment Prob(F)							0.3061	0.6081	0.6033	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.

Plant Name Description Rating Date Rating Data Type Rating Unit							Dodder West Field 26/May/2005 Cover %	Alfalfa East Field 26/May/2005 Injury %	Dodder East Field 26/May/2005 Cover %	Alfalfa East Field 27/Jun/2005 Injury %
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Code	21	22	23	24
1	Untreated Check						3 a	1 b	9 a	16 a
2	Flumioxazin NIS	51 100	DG SF	0.125 0.25	LB A/A % V/V	A A	1 a	3 b	1 a	10 a
3	Flumioxazin NIS	51 100	DG SF	0.25 0.25	LB A/A % V/V	A A	0 a	3 b	1 a	11 a
4	Flumioxazin NIS	51 100	DG SF	0.25 0.25	LB A/A % V/V	B B	1 a	31 a	3 a	11 a
5	Flumioxazin NIS Flumioxazin NIS	51 100 51 100	DG SF DG SF	0.125 0.25 0.125 0.25	LB A/A % V/V LB A/A % V/V	A A B B	0 a	29 a	0 a	13 a
6	Pursuit NIS Amonium Sulfate	70 100 100	DG SF DG	0.00945 0.25 2.5	LB A/A % V/V LB A/A	A A A	3 a	0 b	11 a	17 a
7	Pursuit NIS Amonium Sulfate	70 100 100	DG SF DG	0.00945 0.25 2.5	LB A/A % V/V LB A/A	B B B	0 a	0 b	8 a	14 a
8	Raptor NIS Amonium Sulfate	1 100 100	SL SF DG	.046875 0.25 2.5	LB A/A % V/V LB A/A	A A A	3 a	0 b	10 a	22 a
9	Raptor NIS Amonium Sulfate	1 100 100	SL SF DG	.046875 0.25 2.5	LB A/A % V/V LB A/A	B B B	0 a	1 b	3 a	10 a
LSD (P=.05)							4.0	3.6	7.5	11.4
Standard Deviation							2.7	2.5	5.1	7.8
CV							245.9	32.71	102.74	56.69
Grand Mean							1.11	7.5	5.0	13.72
Bartlett's X2							2.921	2.173	15.733	24.592
P(Bartlett's X2)							0.571	0.825	0.028*	0.002*
Replicate F							1.488	1.692	0.211	8.642
Replicate Prob(F)							0.2429	0.1953	0.8881	0.0005
Treatment F							0.721	109.038	2.842	1.098
Treatment Prob(F)							0.6715	0.0001	0.0226	0.3983

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.

Plant Name Description Rating Date Rating Data Type Rating Unit							Dodder East Field 27/Jun/2005 Control %
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Appl Code	25
1	Untreated Check						45 a
2	Flumioxazin NIS	51 100	DG SF	0.125 0.25	LB A/A % V/V	A A	86 a
3	Flumioxazin NIS	51 100	DG SF	0.25 0.25	LB A/A % V/V	A A	70 a
4	Flumioxazin NIS	51 100	DG SF	0.25 0.25	LB A/A % V/V	B B	64 a
5	Flumioxazin NIS Flumioxazin NIS	51 100 51 100	DG SF DG SF	0.125 0.25 0.125 0.25	LB A/A % V/V LB A/A % V/V	A A B B	91 a
6	Pursuit NIS Amonium Sulfate	70 100 100	DG SF DG	0.00945 0.25 2.5	LB A/A % V/V LB A/A	A A A	68 a
7	Pursuit NIS Amonium Sulfate	70 100 100	DG SF DG	0.00945 0.25 2.5	LB A/A % V/V LB A/A	B B B	66 a
8	Raptor NIS Amonium Sulfate	1 100 100	SL SF DG	.046875 0.25 2.5	LB A/A % V/V LB A/A	A A A	55 a
9	Raptor NIS Amonium Sulfate	1 100 100	SL SF DG	.046875 0.25 2.5	LB A/A % V/V LB A/A	B B B	81 a
LSD (P=.05)							31.4
Standard Deviation							21.5
CV							30.96
Grand Mean							69.56
Bartlett's X2							14.568
P(Bartlett's X2)							0.068
Replicate F							1.455
Replicate Prob(F)							0.2518
Treatment F							1.889
Treatment Prob(F)							0.1091

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.