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Miscellaneous herbicide treatments in pastures

Trial ID: 04-FPAC-PASTURE
Location: FPAC

Study Dir.:
Investigator: Dr. Bill Johnson

GENERAL TRIAL INFORMATION

Investigator: Dr. Bill Johnson

TRIAL LOCATION

City: Bedford
State/Prov.: IN
Postal Code: 47421
Country: USA
E-Longitude of LL Corner °: 273.431180 N-Latitude of LL Corner °: 38.877600
Altitude of LL Corner: 627.00 Unit: feet

COOPERATOR/LANDOWNER

Cooperator: Feldun-Purdue Agricultural Center Country: USA
Address 1: 923 State Road 458 Phone No: 812-279-8554
City: Bedford Fax No: 812-279-4390
State/Prov: IN
Postal Code: 47421

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	VENBA	Western Ironweed	Vernonia baldwinii Torr.
2.	SOLCA	HORSENETTLE	SOLANUM CAROLINENSE L.
3.	ARFMI	BURDOCK	ARCTIUM MINUS (HILL) BERNH.
4.	AMASP	AMARANTH, SPINY	AMARANTHUS SPINOSUS L.
5.	RUMCR	DOCK, CURLY	RUMEX CRISPUS L.

Crop 1: FESSS FESCUE SP.

Variety: Established Pasture

Crop 2: TRFSS CLOVER, TRIFOLIUM SP.

Variety: Established pasture

SITE AND DESIGN

Plot Width, Unit: 10 FT Plot Length, Unit: 30 FT Reps: 4
Tillage Type: established pasture Study Design: RANDOMIZED COMPLETE BLOCK

MAINTENANCE

Field Prep./Maintenance:

Once the trial is established, study area will be occasionally mowed to represent a typical grazing process.

APPLICATION DESCRIPTION

	A
Application Date:	26/May/2004
Time of Day:	1400
Application Method:	SPRAY
Application Timing:	SPRING
Applic. Placement:	BROFOL
Air Temp., Unit:	73 F
% Relative Humidity:	78
Wind Velocity, Unit:	1.5 MPH
Soil Temp., Unit:	72 F
Soil Moisture:	wet
% Cloud Cover:	100

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CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	FESSS
Height, Unit:	10 IN
Crop 2 Code, Stage:	TRFSS
Height, Unit:	8 IN

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	VENBA
Stage Scale:	8-12"
Density, Unit:	4 M2
Weed 2 Code, Stage:	SOLCA
Stage Scale:	8-12"
Density, Unit:	<1 M2
Weed 3 Code, Stage:	ARFMI
Stage Scale:	8-10"
Density, Unit:	4 M2
Weed 4 Code, Stage:	AMASP
Stage Scale:	na
Weed 5 Code, Stage:	RUMCR
Stage Scale:	na

APPLICATION EQUIPMENT

	A
Appl. Equipment:	CO2 Backp
Operating Pressure:	25 psi
Nozzle Type:	VS
Nozzle Size:	8002
Nozzle Spacing, Unit:	20 IN
Boom Length, Unit:	10 FT
Ground Speed, Unit:	3 MPH
Carrier:	water
Spray Volume, Unit:	15 gpa
Propellant:	CO2

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Trial ID: 04-FPAC-PASTURE
Location: FPAC

Study Dir.:
Investigator: Dr. Bill Johnson

				FESSS	FESSS	TRFSS	VENBA	SOLCA	
				plant	plant	plant			
				%	%	%	%	%	
				%injury	%injury	%injury	%control	%control	
				10/Jun/2004	24/Jun/2004	24/Jun/2004	24/Jun/2004	24/Jun/2004	
				4-12"	12-18"	na			
				veg	veg	veg			
							12-24"	8-12"	
							1 M2	1-5 M2	
				Earl & Reece	Earl & Reece	Earl & Reece	Earl & Reece	Earl & Reece	
				15 DA-A	29 DA-A	29 DA-A	29 DA-A	29 DA-A	
				0	0	0	0	0	
Trt	Treatment	Rate	Unit	Grow					
No.	Name			Stg	1	2	3	4	
								5	
1	Curtail (ae) NIS	0.89	lb ae/a	SPRING SPRING	5 b	0 b	98 a	81 a	37 ab
2	Curtail (ae) NIS	0.89	lb ae/a	FALL FALL					
3	Curtail (ae) NIS	1.19	lb ae/a	SPRING SPRING	1 b	1 b	100 a	55 a	48 ab
4	Curtail (ae) NIS	1.19	lb ae/a	FALL FALL					
5	Curtail (ae) NIS	1.49	lb ae/a	SPRING SPRING	3 b	0 b	100 a	89 a	55 ab
6	Curtail (ae) NIS	1.49	lb ae/a	FALL FALL					
7	Banvel 2,4-D Ester NIS	0.5 1	lb ae/a lb ae/a	SPRING SPRING SPRING	10 b	5 b	100 a	78 a	83 a
8	Banvel 2,4-D Ester NIS	0.5 1	lb ae/a lb ae/a	FALL FALL FALL					
9	2,4-D Ester NIS	1	lb ae/a	SPRING SPRING	1 b	0 b	0 b	90 a	56 ab
10	2,4-D Ester NIS	1	lb ae/a	FALL FALL					
11	Grazon P+D NIS	0.95	lb ae/a	SPRING SPRING	4 b	1 b	98 a	95 a	83 a
12	Grazon P+D NIS	0.95	lb ae/a	FALL FALL					
13	Cimarron (Ally XP) NIS	0.00375	lb ai/a	SPRING SPRING	12 ab	4 b	100 a	46 a	18 b
14	Cimarron (Ally XP) NIS	0.00375	lb ai/a	FALL FALL					
15	Cimarron (Ally XP) NIS	0.0075	lb ai/a	SPRING SPRING	13 ab	6 b	100 a	61 a	23 b
16	Cimarron (Ally XP) NIS	0.0075	lb ai/a	FALL FALL					
17	Cimarron (Ally XP) Telar (Glean) NIS	0.00375 0.0117	lb ai/a lb ai/a	SPRING SPRING SPRING	21 a	18 a	100 a	46 a	8 b
18	Cimarron (Ally XP) Telar (Glean) NIS	0.00375 0.0117	lb ai/a lb ai/a	FALL FALL FALL					
19	Cimarron (Ally XP) 2,4-D Ester NIS	0.00375 0.25	lb ai/a lb ae/a	SPRING SPRING SPRING	8 b	5 b	100 a	68 a	30 ab
20	Cimarron (Ally XP) 2,4-D Ester NIS	0.00375 0.25	lb ai/a lb ae/a	FALL FALL FALL					

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Weed Code				VENBA	SOLCA			
Crop Code	FESSS	FESSS	TRFSS					
Part Rated	plant	plant	plant					
Rating Data Type	%	%	%	%	%			
Rating Unit	%injury	%injury	%injury	%control	%control			
Rating Date	10/Jun/2004	24/Jun/2004	24/Jun/2004	24/Jun/2004	24/Jun/2004			
Crop Stage	4-12"	12-18"	na					
Crop Stage Scale	veg	veg	veg					
Weed Stage				12-24"	8-12"			
Weed Density, Unit				1 M2	1-5 M2			
Assessed By	Earl & Reece	Earl & Reece	Earl & Reece	Earl & Reece	Earl & Reece			
Trt-Eval Interval	15 DA-A	29 DA-A	29 DA-A	29 DA-A	29 DA-A			
# Subsamples, Dec.	0	0	0	0	0			
Trt Treatment	Rate	Grow						
No. Name	Rate	Unit	Stg	1	2	3	4	5
21 Distinct NIS	0.35	lb ae/a	SPRING SPRING	9 b	6 b	99 a	35 a	28 ab
22 Distinct NIS	0.35	lb ae/a	FALL FALL					
LSD (P=.05)	7.3	6.8	2.7	53.5	36.3			
Standard Deviation	5.1	4.7	1.8	37.0	25.1			
CV	64.47	111.81	2.03	54.61	59.24			
Grand Mean	7.84	4.2	90.43	67.69	42.38			
Bartlett's X2	10.03	10.702	1.579	15.319	13.639			
P(Bartlett's X2)	0.438	0.152	0.454	0.121	0.19			
Replicate F	0.641	0.438	1.252	0.457	4.340			
Replicate Prob(F)	0.5945	0.7272	0.3092	0.7145	0.0121			
Treatment F	5.597	4.668	1066.421	1.218	3.953			
Treatment Prob(F)	0.0001	0.0005	0.0001	0.3209	0.0018			

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.

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Weed Code					FESSS	TRFSS	VENBA
Crop Code					plant	plant	
Part Rated					%	%	%
Rating Data Type					%injury	%injury	%control
Rating Unit					26/Jul/2004	26/Jul/2004	26/Jul/2004
Rating Date					12-24"	na	
Crop Stage							
Crop Stage Scale							12-36"
Weed Stage							1 M2
Weed Density, Unit					Earl, Reece, & Vince	Earl, Reece, & Vince	Earl, Reece, & Vince
Assessed By					61 DA-A	61 DA-A	61 DA-A
Trt-Eval Interval					0	0	0
# Subsamples, Dec.							
Trt No.	Treatment Name	Rate	Rate Unit	Grow Stg	6	7	8
1	Curtail (ae) NIS	0.89	lb ae/a	SPRING SPRING	0 a	99 a	58 a
2	Curtail (ae) NIS	0.89	lb ae/a	FALL FALL			
3	Curtail (ae) NIS	1.19	lb ae/a	SPRING SPRING	0 a	99 a	80 a
4	Curtail (ae) NIS	1.19	lb ae/a	FALL FALL			
5	Curtail (ae) NIS	1.49	lb ae/a	SPRING SPRING	0 a	100 a	94 a
6	Curtail (ae) NIS	1.49	lb ae/a	FALL FALL			
7	Banvel 2,4-D Ester NIS	0.5 1	lb ae/a lb ae/a	SPRING SPRING SPRING	0 a	99 a	83 a
8	Banvel 2,4-D Ester NIS	0.5 1	lb ae/a lb ae/a	FALL FALL FALL			
9	2,4-D Ester NIS	1	lb ae/a	SPRING SPRING	0 a	13 b	93 a
10	2,4-D Ester NIS	1	lb ae/a	FALL FALL			
11	Grazon P+D NIS	0.95	lb ae/a	SPRING SPRING	0 a	100 a	93 a
12	Grazon P+D NIS	0.95	lb ae/a	FALL FALL			
13	Cimarron (Ally XP) NIS	0.00375	lb ai/a	SPRING SPRING	0 a	100 a	63 a
14	Cimarron (Ally XP) NIS	0.00375	lb ai/a	FALL FALL			
15	Cimarron (Ally XP) NIS	0.0075	lb ai/a	SPRING SPRING	0 a	100 a	55 a
16	Cimarron (Ally XP) NIS	0.0075	lb ai/a	FALL FALL			
17	Cimarron (Ally XP) Telar (Glean) NIS	0.00375 0.0117	lb ai/a lb ai/a	SPRING SPRING SPRING	0 a	100 a	43 a
18	Cimarron (Ally XP) Telar (Glean) NIS	0.00375 0.0117	lb ai/a lb ai/a	FALL FALL FALL			
19	Cimarron (Ally XP) 2,4-D Ester NIS	0.00375 0.25	lb ai/a lb ae/a	SPRING SPRING SPRING	0 a	100 a	73 a
20	Cimarron (Ally XP) 2,4-D Ester NIS	0.00375 0.25	lb ai/a lb ae/a	FALL FALL FALL			
21	Distinct NIS	0.35	lb ae/a	SPRING SPRING	0 a	96 a	40 a

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Weed Code					SOLCA	AMASP	RUMCR
Crop Code							
Part Rated							
Rating Data Type					%	severity	%
Rating Unit					%control	0-4	%control
Rating Date					26/Jul/2004	26/Jul/2004	26/Jul/2004
Crop Stage							
Crop Stage Scale							
Weed Stage					4-24"	12-24"	10-15"
Weed Density, Unit					1-5 M2		<1 M2
Assessed By					Earl, Reece, & Vince	Earl, Reece, & Vince	Earl, Reece, & Vince
Trt-Eval Interval					61 DA-A	61 DA-A	61 DA-A
# Subsamples, Dec.					0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Grow Stg	9	10	11
1	Curtail (ae) NIS	0.89	lb ae/a	SPRING SPRING	44 ab	2 ab	75 a
2	Curtail (ae) NIS	0.89	lb ae/a	FALL FALL			
3	Curtail (ae) NIS	1.19	lb ae/a	SPRING SPRING	48 ab	2 a	100 a
4	Curtail (ae) NIS	1.19	lb ae/a	FALL FALL			
5	Curtail (ae) NIS	1.49	lb ae/a	SPRING SPRING	24 ab	1 ab	88 a
6	Curtail (ae) NIS	1.49	lb ae/a	FALL FALL			
7	Banvel 2,4-D Ester NIS	0.5 1	lb ae/a lb ae/a	SPRING SPRING SPRING	58 ab	2 ab	93 a
8	Banvel 2,4-D Ester NIS	0.5 1	lb ae/a lb ae/a	FALL FALL FALL			
9	2,4-D Ester NIS	1	lb ae/a	SPRING SPRING	58 ab	1 ab	79 a
10	2,4-D Ester NIS	1	lb ae/a	FALL FALL			
11	Grazon P+D NIS	0.95	lb ae/a	SPRING SPRING	75 a	1 ab	98 a
12	Grazon P+D NIS	0.95	lb ae/a	FALL FALL			
13	Cimarron (Ally XP) NIS	0.00375	lb ai/a	SPRING SPRING	14 ab	2 ab	73 a
14	Cimarron (Ally XP) NIS	0.00375	lb ai/a	FALL FALL			
15	Cimarron (Ally XP) NIS	0.0075	lb ai/a	SPRING SPRING	18 ab	1 ab	100 a
16	Cimarron (Ally XP) NIS	0.0075	lb ai/a	FALL FALL			
17	Cimarron (Ally XP) Telar (Glean) NIS	0.00375 0.0117	lb ai/a lb ai/a	SPRING SPRING SPRING	0 b	0 b	100 a
18	Cimarron (Ally XP) Telar (Glean) NIS	0.00375 0.0117	lb ai/a lb ai/a	FALL FALL FALL			
19	Cimarron (Ally XP) 2,4-D Ester NIS	0.00375 0.25	lb ai/a lb ae/a	SPRING SPRING SPRING	29 ab	1 ab	90 a
20	Cimarron (Ally XP) 2,4-D Ester NIS	0.00375 0.25	lb ai/a lb ae/a	FALL FALL FALL			
21	Distinct NIS	0.35	lb ae/a	SPRING SPRING	0 b	1 ab	55 a

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Weed Code		SOLCA	AMASP	RUMCR
Crop Code				
Part Rated				
Rating Data Type		%	severity	%
Rating Unit		%control	0-4	%control
Rating Date		26/Jul/2004	26/Jul/2004	26/Jul/2004
Crop Stage				
Crop Stage Scale				
Weed Stage		4-24"	12-24"	10-15"
Weed Density, Unit		1-5 M2		<1 M2
Assessed By		Earl, Reece, & Vince	Earl, Reece, & Vince	Earl, Reece, & Vince
Trt-Eval Interval		61 DA-A	61 DA-A	61 DA-A
# Subsamples, Dec.		0	0	0
Trt Treatment	Rate	Grow		
No. Name	Rate	Unit	Stg	
22 Distinct	0.35	lb ae/a	FALL	
NIS			FALL	
LSD (P=.05)		42.0	1.1	40.0
Standard Deviation		29.1	0.8	27.7
CV		87.67	71.45	32.13
Grand Mean		33.18	1.09	86.25
Bartlett's X2		3.982	8.162	14.541
P(Bartlett's X2)		0.859	0.518	0.042*
Replicate F		4.288	7.282	1.794
Replicate Prob(F)		0.0124	0.0008	0.1695
Treatment F		2.922	2.985	1.092
Treatment Prob(F)		0.0112	0.0099	0.3987

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

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Weed Code					Misc. gr	FESSS	TRFSS	VENBA
Crop Code						plant	plant	
Part Rated						%	%	%
Rating Data Type					severity	%injury	%injury	%control
Rating Unit					0-4	27/Aug/2004	27/Aug/2004	27/Aug/2004
Rating Date					26/Jul/2004	27/Aug/2004	27/Aug/2004	27/Aug/2004
Crop Stage						24-36"	na	
Crop Stage Scale								
Weed Stage					misc			12-42"
Weed Density, Unit								1 M2
Assessed By					Earl, Reece, & Vince	Glenn & Reece	Glenn & Reece	Glenn & Reece
Trt-Eval Interval					61 DA-A	93 DA-A	93 DA-A	93 DA-A
# Subsamples, Dec.					0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Grow Stg	12	13	14	15
1	Curtail (ae) NIS	0.89	lb ae/a	SPRING SPRING	2 a	15 a	100 a	71 a
2	Curtail (ae) NIS	0.89	lb ae/a	FALL FALL				
3	Curtail (ae) NIS	1.19	lb ae/a	SPRING SPRING	2 a	0 a	100 a	40 a
4	Curtail (ae) NIS	1.19	lb ae/a	FALL FALL				
5	Curtail (ae) NIS	1.49	lb ae/a	SPRING SPRING	1 a	0 a	100 a	90 a
6	Curtail (ae) NIS	1.49	lb ae/a	FALL FALL				
7	Banvel 2,4-D Ester NIS	0.5 1	lb ae/a lb ae/a	SPRING SPRING SPRING	2 a	0 a	95 a	51 a
8	Banvel 2,4-D Ester NIS	0.5 1	lb ae/a lb ae/a	FALL FALL FALL				
9	2,4-D Ester NIS	1	lb ae/a	SPRING SPRING	1 a	15 a	0 b	73 a
10	2,4-D Ester NIS	1	lb ae/a	FALL FALL				
11	Grazon P+D NIS	0.95	lb ae/a	SPRING SPRING	2 a	15 a	100 a	70 a
12	Grazon P+D NIS	0.95	lb ae/a	FALL FALL				
13	Cimarron (Ally XP) NIS	0.00375	lb ai/a	SPRING SPRING	2 a	0 a	98 a	51 a
14	Cimarron (Ally XP) NIS	0.00375	lb ai/a	FALL FALL				
15	Cimarron (Ally XP) NIS	0.0075	lb ai/a	SPRING SPRING	1 a	0 a	100 a	45 a
16	Cimarron (Ally XP) NIS	0.0075	lb ai/a	FALL FALL				
17	Cimarron (Ally XP) Telar (Glean) NIS	0.00375 0.0117	lb ai/a lb ai/a	SPRING SPRING SPRING	2 a	0 a	100 a	70 a
18	Cimarron (Ally XP) Telar (Glean) NIS	0.00375 0.0117	lb ai/a lb ai/a	FALL FALL FALL				
19	Cimarron (Ally XP) 2,4-D Ester NIS	0.00375 0.25	lb ai/a lb ae/a	SPRING SPRING SPRING	2 a	0 a	100 a	63 a
20	Cimarron (Ally XP) 2,4-D Ester NIS	0.00375 0.25	lb ai/a lb ae/a	FALL FALL FALL				
21	Distinct NIS	0.35	lb ae/a	SPRING SPRING	2 a	0 a	98 a	45 a

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Weed Code		Misc. gr		FESSS		TRFSS		VENBA
Crop Code				plant		plant		
Part Rated				%		%		%
Rating Data Type		severity		%injury		%injury		%control
Rating Unit		0-4		27/Aug/2004		27/Aug/2004		27/Aug/2004
Rating Date		26/Jul/2004		24-36"		na		
Crop Stage								
Crop Stage Scale								
Weed Stage		misc						12-42"
Weed Density, Unit								1 M2
Assessed By		Earl, Reece, & Vince		Glenn & Reece		Glenn & Reece		Glenn & Reece
Trt-Eval Interval		61 DA-A		93 DA-A		93 DA-A		93 DA-A
# Subsamples, Dec.		0		0		0		0
Trt Treatment								
No. Name	Rate	Rate	Grow					
		Unit	Stg	12	13	14		15
22 Distinct	0.35	lb ae/a	FALL					
NIS			FALL					
LSD (P=.05)				1.5	20.2	5.2		54.6
Standard Deviation				1.0	14.0	3.6		37.7
CV				66.59	342.54	4.03		62.15
Grand Mean				1.55	4.09	90.0		60.71
Bartlett's X2				5.79	0.0	2.052		11.082
P(Bartlett's X2)				0.833	1.00	0.358		0.351
Replicate F				2.117	3.750	1.379		0.088
Replicate Prob(F)				0.1189	0.0212	0.2681		0.9660
Treatment F				0.416	1.000	271.207		0.676
Treatment Prob(F)				0.9277	0.4654	0.0001		0.7373

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

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Weed Code					SOLCA	AMASP	RUMCR	Misc. gr
Crop Code								
Part Rated								
Rating Data Type					%	%	%	severity
Rating Unit					%control	%control	%control	0-4
Rating Date					27/Aug/2004	27/Aug/2004	27/Aug/2004	27/Aug/2004
Crop Stage								
Crop Stage Scale								
Weed Stage					6-30"	12-36"	6-24"	misc
Weed Density, Unit					1-5 M2	0-10M2	1 M2	
Assessed By					Glenn & Reece	Glenn & Reece	Glenn & Reece	Glenn & Reece
Trt-Eval Interval					93 DA-A	93 DA-A	93 DA-A	93 DA-A
# Subsamples, Dec.					0	0	0	0
Trt No.	Treatment Name	Rate	Rate Unit	Grow Stg	16	17	18	19
1	Curtail (ae) NIS	0.89	lb ae/a	SPRING SPRING	8 a	20 a	51 a	2 a
2	Curtail (ae) NIS	0.89	lb ae/a	FALL FALL				
3	Curtail (ae) NIS	1.19	lb ae/a	SPRING SPRING	35 a	10 a	84 a	2 a
4	Curtail (ae) NIS	1.19	lb ae/a	FALL FALL				
5	Curtail (ae) NIS	1.49	lb ae/a	SPRING SPRING	29 a	48 a	81 a	2 a
6	Curtail (ae) NIS	1.49	lb ae/a	FALL FALL				
7	Banvel 2,4-D Ester NIS	0.5 1	lb ae/a lb ae/a	SPRING SPRING SPRING	18 a	15 a	59 a	2 a
8	Banvel 2,4-D Ester NIS	0.5 1	lb ae/a lb ae/a	FALL FALL FALL				
9	2,4-D Ester NIS	1	lb ae/a	SPRING SPRING	11 a	73 a	63 a	2 a
10	2,4-D Ester NIS	1	lb ae/a	FALL FALL				
11	Grazon P+D NIS	0.95	lb ae/a	SPRING SPRING	51 a	23 a	74 a	2 a
12	Grazon P+D NIS	0.95	lb ae/a	FALL FALL				
13	Cimarron (Ally XP) NIS	0.00375	lb ai/a	SPRING SPRING	0 a	29 a	69 a	2 a
14	Cimarron (Ally XP) NIS	0.00375	lb ai/a	FALL FALL				
15	Cimarron (Ally XP) NIS	0.0075	lb ai/a	SPRING SPRING	30 a	60 a	91 a	1 a
16	Cimarron (Ally XP) NIS	0.0075	lb ai/a	FALL FALL				
17	Cimarron (Ally XP) Telar (Glean) NIS	0.00375 0.0117	lb ai/a lb ai/a	SPRING SPRING SPRING	16 a	61 a	69 a	2 a
18	Cimarron (Ally XP) Telar (Glean) NIS	0.00375 0.0117	lb ai/a lb ai/a	FALL FALL FALL				
19	Cimarron (Ally XP) 2,4-D Ester NIS	0.00375 0.25	lb ai/a lb ae/a	SPRING SPRING SPRING	15 a	31 a	93 a	2 a
20	Cimarron (Ally XP) 2,4-D Ester NIS	0.00375 0.25	lb ai/a lb ae/a	FALL FALL FALL				
21	Distinct NIS	0.35	lb ae/a	SPRING SPRING	0 a	11 a	23 a	1 a

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Weed Code	SOLCA		AMASP	RUMCR	Misc. gr
Crop Code					
Part Rated					
Rating Data Type	%		%	%	severity
Rating Unit	%control		%control	%control	0-4
Rating Date	27/Aug/2004		27/Aug/2004	27/Aug/2004	27/Aug/2004
Crop Stage					
Crop Stage Scale					
Weed Stage	6-30"		12-36"	6-24"	misc
Weed Density, Unit	1-5 M2		0-10M2	1 M2	
Assessed By	Glenn & Reece		Glenn & Reece	Glenn & Reece	Glenn & Reece
Trt-Eval Interval	93 DA-A		93 DA-A	93 DA-A	93 DA-A
# Subsamples, Dec.	0		0	0	0
Trt Treatment	Rate	Grow			
No. Name	Rate	Unit	Stg		
22 Distinct	0.35	lb ae/a	FALL	16	17
NIS			FALL	18	19
LSD (P=.05)	40.7		40.0	52.3	1.4
Standard Deviation	28.2		27.7	36.2	1.0
CV	145.82		80.19	52.73	54.89
Grand Mean	19.32		34.55	68.64	1.77
Bartlett's X2	10.655		8.934	28.19	8.033
P(Bartlett's X2)	0.222		0.538	0.002*	0.626
Replicate F	0.240		7.874	1.447	0.032
Replicate Prob(F)	0.8680		0.0005	0.2487	0.9921
Treatment F	1.236		2.553	1.240	0.763
Treatment Prob(F)	0.3094		0.0230	0.3068	0.6618

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.