

Purdue University

Miscellaneous spring applied treatments in no-till soybean

Trial ID: 04-PPAC-SOY-MISC
 Location: PPAC

Study Dir.:
 Investigator: Dr. Bill Johnson

GENERAL TRIAL INFORMATION

Investigator: Dr. Bill Johnson

TRIAL LOCATION

City: Wanatah
State/Prov.: IN
Postal Code: 46390
Country: USA
E-Longitude of LL Corner °: 273.060630 **N-Latitude of LL Corner °:** 41.443683
Altitude of LL Corner: 702.00 **Unit:** feet

COOPERATOR/LANDOWNER

Cooperator: Pinney Purdue Agricultural Center
City: Wanatah
State/Prov: IN
Postal Code: 46390

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

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	TAROF	DANDELION, COMMON	TARAXACUM OFFICINALE WEBER IN WIGGERS
2.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
3.	CIRAR	THISTLE, CANADA	CIRSIIUM ARVENSE (L.) SCOP.
4.	DIGSA	CRABGRASS, LARGE	DIGITARIA SANGUINALIS (L.) SCOP.

Crop 1: ZEAMX CORN, FIELD **Variety:** 75% harvest residue(2003)

Crop 2: GLXMA SOYBEAN
Planting Date: 20/May/2004 **Planting Method:** DRILLED
Row Spacing: 7.5 IN **Emergence Date:** 26/May/2004

SITE AND DESIGN

Plot Width, Unit: 10 FT **Plot Length, Unit:** 30 FT **Reps:** 4
Tillage Type: no-till **Study Design:** RANDOMIZED COMPLETE BLOCK

	Previous Crops	Previous Pesticides	Year
1.	corn		

APPLICATION DESCRIPTION

	A	B
Application Date:	21/May/2004	23/Jun/2004
Time of Day:	1300-1400	0730-0800
Application Method:	SPRAY	SPRAY
Application Timing:	PREPOS	POSPOS
Applic. Placement:	BROFOL	BROFOL
Air Temp., Unit:	65 F	64 F
% Relative Humidity:	72	90
Wind Velocity, Unit:	0 MPH	3 MPH
Soil Temp., Unit:	66 F	60 F
Soil Moisture:	Moist sur	Moist
% Cloud Cover:	100	0

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ZEAMX	ZEAMX
Stage Scale:	residue	residue
Height, Unit:	75 %	75 %
Crop 2 Code, Stage:	GLXMA	GLXMA
Stage Scale:	na - pre	V3, 6-8"
Height, Unit:		7 IN

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WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	TAROF	TAROF
Stage Scale:	12" dia	6-18"
Density, Unit:	1 M2	4-5 FT2
Weed 2 Code, Stage:	CHEAL	CHEAL
Stage Scale:	5"	2-10"
Density, Unit:	0.5 M2	<1 M2
Weed 3 Code, Stage:	CIRAR	CIRAR
Stage Scale:	6" (low)	na
Density, Unit:	<0.5 M2	
Weed 4 Code, Stage:	DIGSA	DIGSA
Stage Scale:	na	2-12"
Density, Unit:		<1 M2

APPLICATION EQUIPMENT

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

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Miscellaneous spring applied treatments in no-till soybean

Trial ID: 04-PPAC-SOY-MISC
 Location: PPAC

Study Dir.:
 Investigator: Dr. Bill Johnson

Weed Code	GLXMA	GLXMA	TAROF	DIGSA
Crop Code	leaves	leaves	PLANT	PLANT
Part Rated	%injury	%injury	%control	%control
Rating Data Type	%	%	%	%
Rating Unit	9/Jun/2004	23/Jun/2004	23/Jun/2004	23/Jun/2004
Rating Date	V1	V3	V3	V3
Crop Stage	2-4"	6-8"	6-8"	6-8"
Crop Stage Scale			6-18"	6-12"
Weed Stage			4-5 FT2	<1 M2
Weed Density, Unit	Earl & Reece	Earl , Reece, Vince	Earl , Reece, Vince	Earl , Reece, Vince
Assessed By	19 DA-A	33 DA-A	33 DA-A	33 DA-A
Trt-Eval Interval	0	0	0	0
# Subsamples, Dec.				
Trt Treatment	Rate	Rate	Grow	
No. Name	Unit	Unit	Stg	
1 Untreated Check				0 a
2 Prowl H2O	1.19 lb ai/a	SPRBD/pr		8 a
2,4-D Ester	0.5 lb ae/a	SPRBD/pr		0 a
Roundup Weathermax	0.77 lb ae/a	SPRBD/pr		85 a
AMS		SPRBD/pr		
Raptor (a.e.)	0.0312 lb ae/a	4"/4 WAP		
Ultra Blazer	0.187 lb ai/a	4"/4 WAP		
MSO		4"/4 WAP		
AMS		4"/4 WAP		
3 Prowl H2O	1.19 lb ai/a	SPRBD/pr		6 a
2,4-D Ester	0.5 lb ae/a	SPRBD/pr		0 a
Roundup Weathermax	0.77 lb ae/a	SPRBD/pr		84 ab
AMS		SPRBD/pr		
Extreme	0.81 lb ae/a	4"/4 WAP		
NIS		4"/4 WAP		
AMS		4"/4 WAP		
4 Backdraft (imazaquin)	0.84 lb ae/a	SPRBD/pr		9 a
2,4-D Ester	0.5 lb ae/a	SPRBD/pr		1 a
NIS		SPRBD/pr		
AMS		SPRBD/pr		
5 Prowl H2O	1.19 lb ai/a	SPRBD/pr		5 a
Backdraft (imazaquin)	0.84 lb ae/a	SPRBD/pr		0 a
2,4-D Ester	0.5 lb ae/a	SPRBD/pr		94 a
NIS		SPRBD/pr		
AMS		SPRBD/pr		
6 Prowl H2O	1.19 lb ai/a	SPRBD/pr		6 a
Extreme	0.81 lb ae/a	SPRBD/pr		0 a
2,4-D Ester	0.5 lb ae/a	SPRBD/pr		96 a
NIS		SPRBD/pr		
AMS		SPRBD/pr		
7 Boundary	1.22 lb ai/a	SPRBD/pr		6 a
2,4-D Ester	0.5 lb ae/a	SPRBD/pr		0 a
Roundup Weathermax	0.77 lb ae/a	SPRBD/pr		80 ab
AMS		SPRBD/pr		
Flexstar	0.294 lb ai/a	4"/4 WAP		
Fusion	0.16 lb ai/a	4"/4 WAP		
Crop Oil Conc		4"/4 WAP		
UAN (28%)		4"/4 WAP		
8 Boundary	1.7 lb ai/a	SPRBD/pr		7 a
2,4-D Ester	0.5 lb ae/a	SPRBD/pr		0 a
Roundup Weathermax	0.77 lb ae/a	SPRBD/pr		71 ab
AMS		SPRBD/pr		
Flexstar	0.294 lb ai/a	4"/4 WAP		
Crop Oil Conc		4"/4 WAP		
UAN (28%)		4"/4 WAP		

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Weed Code	GLXMA	GLXMA	TAROF	DIGSA				
Crop Code	GLXMA	GLXMA	TAROF	DIGSA				
Part Rated	leaves	leaves	PLANT	PLANT				
Rating Data Type	%injury	%injury	%control	%control				
Rating Unit	%	%	%	%				
Rating Date	9/Jun/2004	23/Jun/2004	23/Jun/2004	23/Jun/2004				
Crop Stage	V1	V3	V3	V3				
Crop Stage Scale	2-4"	6-8"	6-8"	6-8"				
Weed Stage			6-18"	6-12"				
Weed Density, Unit			4-5 FT2	<1 M2				
Assessed By	Earl & Reece	Earl , Reece, Vince	Earl , Reece, Vince	Earl , Reece, Vince				
Trt-Eval Interval	19 DA-A	33 DA-A	33 DA-A	33 DA-A				
# Subsamples, Dec.	0	0	0	0				
Trt No.	Treatment Name	Rate	Unit	Grow Stg	1	2	3	4
9	2,4-D Ester	0.5	lb ae/a	SPRBD/pr	13 a	1 a	73 ab	73 a
	Roundup Weathermax	0.77	lb ae/a	SPRBD/pr				
	AMS			SPRBD/pr				
	Flexstar	0.294	lb ai/a	4"/4 WAP				
	Fusion	0.2	lb ai/a	4"/4 WAP				
	Harmony GT	0.00197	lb ai/a	4"/4 WAP				
	Crop Oil Conc			4"/4 WAP				
	UAN (28%)			4"/4 WAP				
10	Gramoxone Max	0.64	lb ai/a	SPRBD/pr	6 a	0 a	61 b	83 a
	2,4-D Ester	0.5	lb ae/a	SPRBD/pr				
	Crop Oil Conc			SPRBD/pr				
	AMS			SPRBD/pr				
	Touchdown Total	0.78	lb ae/a	4"/4 WAP				
	AMS			4"/4 WAP				
11	Boundary	1.22	lb ai/a	SPRBD/pr	7 a	0 a	82 ab	99 a
	Gramoxone Max	0.64	lb ai/a	SPRBD/pr				
	2,4-D Ester	0.5	lb ae/a	SPRBD/pr				
	Crop Oil Conc			SPRBD/pr				
	AMS			SPRBD/pr				
	Touchdown Total	0.78	lb ae/a	4"/4 WAP				
	AMS			4"/4 WAP				
12	Touchdown Total	0.78	lb ae/a	SPRBD/pr	5 a	0 a	79 ab	85 a
	AMS			SPRBD/pr				
	Flexstar	0.117	lb ai/a	SPRBD/pr				
	Touchdown Total	0.78	lb ae/a	4"/4 WAP				
	AMS			4"/4 WAP				
13	Touchdown Total	0.78	lb ae/a	SPRBD/pr	4 a	0 a	78 ab	72 a
	2,4-D Ester	0.5	lb ae/a	SPRBD/pr				
	AMS			SPRBD/pr				
	Touchdown Total	0.78	lb ae/a	4"/4 WAP				
	Fusion	0.12	lb ai/a	4"/4 WAP				
	AMS			4"/4 WAP				
14	Touchdown HiTech	0.75	lb ae/a	SPRBD/pr	8 a	0 a	75 ab	75 a
	2,4-D Ester	0.5	lb ae/a	SPRBD/pr				
	NIS			SPRBD/pr				
	AMS			SPRBD/pr				
	Touchdown HiTech	0.75	lb ae/a	4"/4 WAP				
	NIS			4"/4 WAP				
	AMS			4"/4 WAP				
LSD (P=.05)					5.8	1.4	14.4	27.6
Standard Deviation					4.0	1.0	10.1	19.3
CV					63.84	535.89	13.42	23.1
Grand Mean					6.32	0.18	74.89	83.66
Bartlett's X2					35.499	0.0	24.969	66.582
P(Bartlett's X2)					0.001*	1.00	0.015*	0.001*
Replicate F					0.282	0.650	10.265	2.298
Replicate Prob(F)					0.8380	0.5877	0.0001	0.0926
Treatment F					1.970	0.900	21.894	7.414
Treatment Prob(F)					0.0513	0.5604	0.0001	0.0001

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

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Weed Code			TAROF	DIGSA
Crop Code	GLXMA	GLXMA		
Part Rated	leaves	leaves	PLANT	PLANT
Rating Data Type	%injury	%injury	%control	%control
Rating Unit	%	%	%	%
Rating Date	9/Jun/2004	23/Jun/2004	23/Jun/2004	23/Jun/2004
Crop Stage	V1	V3	V3	V3
Crop Stage Scale	2-4"	6-8"	6-8"	6-8"
Weed Stage			6-18"	6-12"
Weed Density, Unit			4-5 FT2	<1 M2
Assessed By	Earl & Reece	Earl , Reece, Vince	Earl , Reece, Vince	Earl , Reece, Vince
Trt-Eval Interval	19 DA-A	33 DA-A	33 DA-A	33 DA-A
# Subsamples, Dec.	0	0	0	0

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

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				CHEAL	GLXMA	TAROF	CHEAL
				PLANT	leaves	PLANT	PLANT
				%control	%injury	%control	%control
				%	%	%	%
				23/Jun/2004	6/Jul/2004	6/Jul/2004	6/Jul/2004
				V3	V5-V6	V5-V6	V5-V6
				6-8"	12"	12"	12"
				2-10"		6-24"	6-18"
				<1 M2		4-5 FT2	<1 M2
				Earl , Reece, Vince	Reece & Vince	Reece & Vince	Reece & Vince
				33 DA-A	13 DA-B	13 DA-B	13 DA-B
				0	0	0	0
Trt No.	Treatment Name	Rate	Grow Unit Stg	5	6	7	8
1	Untreated Check			0 b	0 d	0 d	0 b
2	Prowl H2O	1.19 lb ai/a	SPRBD/pr	100 a	40 a	96 a	100 a
	2,4-D Ester	0.5 lb ae/a	SPRBD/pr				
	Roundup Weathermax	0.77 lb ae/a	SPRBD/pr				
	AMS		SPRBD/pr				
	Raptor (a.e.)	0.0312 lb ae/a	4"/4 WAP				
	Ultra Blazer	0.187 lb ai/a	4"/4 WAP				
	MSO		4"/4 WAP				
	AMS		4"/4 WAP				
3	Prowl H2O	1.19 lb ai/a	SPRBD/pr	93 a	18 c	91 ab	100 a
	2,4-D Ester	0.5 lb ae/a	SPRBD/pr				
	Roundup Weathermax	0.77 lb ae/a	SPRBD/pr				
	AMS		SPRBD/pr				
	Extreme	0.81 lb ae/a	4"/4 WAP				
	NIS		4"/4 WAP				
	AMS		4"/4 WAP				
4	Backdraft (imazaquin)	0.84 lb ae/a	SPRBD/pr	100 a	1 d	87 ab	100 a
	2,4-D Ester	0.5 lb ae/a	SPRBD/pr				
	NIS		SPRBD/pr				
	AMS		SPRBD/pr				
5	Prowl H2O	1.19 lb ai/a	SPRBD/pr	100 a	1 d	89 ab	100 a
	Backdraft (imazaquin)	0.84 lb ae/a	SPRBD/pr				
	2,4-D Ester	0.5 lb ae/a	SPRBD/pr				
	NIS		SPRBD/pr				
	AMS		SPRBD/pr				
6	Prowl H2O	1.19 lb ai/a	SPRBD/pr	100 a	0 d	80 bc	100 a
	Extreme	0.81 lb ae/a	SPRBD/pr				
	2,4-D Ester	0.5 lb ae/a	SPRBD/pr				
	NIS		SPRBD/pr				
	AMS		SPRBD/pr				
7	Boundary	1.22 lb ai/a	SPRBD/pr	100 a	19 bc	74 c	100 a
	2,4-D Ester	0.5 lb ae/a	SPRBD/pr				
	Roundup Weathermax	0.77 lb ae/a	SPRBD/pr				
	AMS		SPRBD/pr				
	Flexstar	0.294 lb ai/a	4"/4 WAP				
	Fusion	0.16 lb ai/a	4"/4 WAP				
	Crop Oil Conc		4"/4 WAP				
	UAN (28%)		4"/4 WAP				
8	Boundary	1.7 lb ai/a	SPRBD/pr	100 a	23 bc	75 c	100 a
	2,4-D Ester	0.5 lb ae/a	SPRBD/pr				
	Roundup Weathermax	0.77 lb ae/a	SPRBD/pr				
	AMS		SPRBD/pr				
	Flexstar	0.294 lb ai/a	4"/4 WAP				
	Crop Oil Conc		4"/4 WAP				
	UAN (28%)		4"/4 WAP				

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Weed Code	CHEAL	GLXMA	TAROF	CHEAL				
Crop Code		GLXMA						
Part Rated	PLANT	leaves	PLANT	PLANT				
Rating Data Type	%control	%injury	%control	%control				
Rating Unit	%	%	%	%				
Rating Date	23/Jun/2004	6/Jul/2004	6/Jul/2004	6/Jul/2004				
Crop Stage	V3	V5-V6	V5-V6	V5-V6				
Crop Stage Scale	6-8"	12"	12"	12"				
Weed Stage	2-10"		6-24"	6-18"				
Weed Density, Unit	<1 M2		4-5 FT2	<1 M2				
Assessed By	Earl , Reece, Vince	Reece & Vince	Reece & Vince	Reece & Vince				
Trt-Eval Interval	33 DA-A	13 DA-B	13 DA-B	13 DA-B				
# Subsamples, Dec.	0	0	0	0				
Trt No.	Treatment Name	Rate	Unit	Grow Stg	5	6	7	8
9	2,4-D Ester	0.5	lb ae/a	SPRBD/pr	75 a	26 b	86 ab	99 a
	Roundup Weathermax	0.77	lb ae/a	SPRBD/pr				
	AMS			SPRBD/pr				
	Flexstar	0.294	lb ai/a	4"/4 WAP				
	Fusion	0.2	lb ai/a	4"/4 WAP				
	Harmony GT	0.00197	lb ai/a	4"/4 WAP				
	Crop Oil Conc			4"/4 WAP				
	UAN (28%)			4"/4 WAP				
10	Gramoxone Max	0.64	lb ai/a	SPRBD/pr	93 a	0 d	92 ab	100 a
	2,4-D Ester	0.5	lb ae/a	SPRBD/pr				
	Crop Oil Conc			SPRBD/pr				
	AMS			SPRBD/pr				
	Touchdown Total	0.78	lb ae/a	4"/4 WAP				
	AMS			4"/4 WAP				
11	Boundary	1.22	lb ai/a	SPRBD/pr	93 a	0 d	96 a	100 a
	Gramoxone Max	0.64	lb ai/a	SPRBD/pr				
	2,4-D Ester	0.5	lb ae/a	SPRBD/pr				
	Crop Oil Conc			SPRBD/pr				
	AMS			SPRBD/pr				
	Touchdown Total	0.78	lb ae/a	4"/4 WAP				
	AMS			4"/4 WAP				
12	Touchdown Total	0.78	lb ae/a	SPRBD/pr	100 a	0 d	94 a	100 a
	AMS			SPRBD/pr				
	Flexstar	0.117	lb ai/a	SPRBD/pr				
	Touchdown Total	0.78	lb ae/a	4"/4 WAP				
	AMS			4"/4 WAP				
13	Touchdown Total	0.78	lb ae/a	SPRBD/pr	83 a	0 d	96 a	100 a
	2,4-D Ester	0.5	lb ae/a	SPRBD/pr				
	AMS			SPRBD/pr				
	Touchdown Total	0.78	lb ae/a	4"/4 WAP				
	Fusion	0.12	lb ai/a	4"/4 WAP				
	AMS			4"/4 WAP				
14	Touchdown HiTech	0.75	lb ae/a	SPRBD/pr	96 a	0 d	96 a	100 a
	2,4-D Ester	0.5	lb ae/a	SPRBD/pr				
	NIS			SPRBD/pr				
	AMS			SPRBD/pr				
	Touchdown HiTech	0.75	lb ae/a	4"/4 WAP				
	NIS			4"/4 WAP				
	AMS			4"/4 WAP				
LSD (P=.05)					23.5	6.0	8.7	1.0
Standard Deviation					16.5	4.2	6.1	0.7
CV					18.71	45.73	7.42	0.72
Grand Mean					87.95	9.14	82.32	92.77
Bartlett's X2					12.221	9.135	27.036	0.0
P(Bartlett's X2)					0.032*	0.166	0.008*	.
Replicate F					0.995	0.376	6.302	1.000
Replicate Prob(F)					0.4052	0.7709	0.0014	0.4031
Treatment F					10.318	40.734	66.334	6388.692
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)

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Weed Code	CHEAL		TAROF	CHEAL
Crop Code		GLXMA		
Part Rated	PLANT	leaves	PLANT	PLANT
Rating Data Type	%control	%injury	%control	%control
Rating Unit	%	%	%	%
Rating Date	23/Jun/2004	6/Jul/2004	6/Jul/2004	6/Jul/2004
Crop Stage	V3	V5-V6	V5-V6	V5-V6
Crop Stage Scale	6-8"	12"	12"	12"
Weed Stage	2-10"		6-24"	6-18"
Weed Density, Unit	<1 M2		4-5 FT2	<1 M2
Assessed By	Earl , Reece, Vince	Reece & Vince	Reece & Vince	Reece & Vince
Trt-Eval Interval	33 DA-A	13 DA-B	13 DA-B	13 DA-B
# Subsamples, Dec.	0	0	0	0

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

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Weed Code				DIGSA	CHEAL	TAROF	
Crop Code							
Part Rated				PLANT	PLANT	PLANT	
Rating Data Type				%control	%control	%control	
Rating Unit				%	%	%	
Rating Date				6/Jul/2004	7/Oct/2004	7/Oct/2004	
Crop Stage				V5-V6			
Crop Stage Scale				12"			
Weed Stage				6-12"	60"	8-12"	
Weed Density, Unit				<1 M2	1 M2	5-10M2	
Assessed By				Reece & Vince	Glenn & Reece	Glenn & Reece	
Trt-Eval Interval				13 DA-B	106 DA-B	106 DA-B	
# Subsamples, Dec.				0	0	0	
Trt No.	Treatment Name	Rate	Unit	Grow Stg	9	10	11
1	Untreated Check				0 b	0 c	0 b
2	Prowl H2O	1.19	lb ai/a	SPRBD/pr	100 a	100 a	100 a
	2,4-D Ester	0.5	lb ae/a	SPRBD/pr			
	Roundup Weathermax	0.77	lb ae/a	SPRBD/pr			
	AMS			SPRBD/pr			
	Raptor (a.e.)	0.0312	lb ae/a	4"/4 WAP			
	Ultra Blazer	0.187	lb ai/a	4"/4 WAP			
	MSO			4"/4 WAP			
	AMS			4"/4 WAP			
3	Prowl H2O	1.19	lb ai/a	SPRBD/pr	100 a	100 a	100 a
	2,4-D Ester	0.5	lb ae/a	SPRBD/pr			
	Roundup Weathermax	0.77	lb ae/a	SPRBD/pr			
	AMS			SPRBD/pr			
	Extreme	0.81	lb ae/a	4"/4 WAP			
	NIS			4"/4 WAP			
	AMS			4"/4 WAP			
4	Backdraft (imazaquin)	0.84	lb ae/a	SPRBD/pr	86 a	100 a	93 a
	2,4-D Ester	0.5	lb ae/a	SPRBD/pr			
	NIS			SPRBD/pr			
	AMS			SPRBD/pr			
5	Prowl H2O	1.19	lb ai/a	SPRBD/pr	94 a	100 a	91 a
	Backdraft (imazaquin)	0.84	lb ae/a	SPRBD/pr			
	2,4-D Ester	0.5	lb ae/a	SPRBD/pr			
	NIS			SPRBD/pr			
	AMS			SPRBD/pr			
6	Prowl H2O	1.19	lb ai/a	SPRBD/pr	100 a	100 a	93 a
	Extreme	0.81	lb ae/a	SPRBD/pr			
	2,4-D Ester	0.5	lb ae/a	SPRBD/pr			
	NIS			SPRBD/pr			
	AMS			SPRBD/pr			
7	Boundary	1.22	lb ai/a	SPRBD/pr	100 a	95 a	90 a
	2,4-D Ester	0.5	lb ae/a	SPRBD/pr			
	Roundup Weathermax	0.77	lb ae/a	SPRBD/pr			
	AMS			SPRBD/pr			
	Flexstar	0.294	lb ai/a	4"/4 WAP			
	Fusion	0.16	lb ai/a	4"/4 WAP			
	Crop Oil Conc			4"/4 WAP			
	UAN (28%)			4"/4 WAP			
8	Boundary	1.7	lb ai/a	SPRBD/pr	96 a	100 a	91 a
	2,4-D Ester	0.5	lb ae/a	SPRBD/pr			
	Roundup Weathermax	0.77	lb ae/a	SPRBD/pr			
	AMS			SPRBD/pr			
	Flexstar	0.294	lb ai/a	4"/4 WAP			
	Crop Oil Conc			4"/4 WAP			
	UAN (28%)			4"/4 WAP			

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Weed Code	DIGSA	CHEAL	TAROF				
Crop Code							
Part Rated	PLANT	PLANT	PLANT				
Rating Data Type	%control	%control	%control				
Rating Unit	%	%	%				
Rating Date	6/Jul/2004	7/Oct/2004	7/Oct/2004				
Crop Stage	V5-V6						
Crop Stage Scale	12"						
Weed Stage	6-12"	60"	8-12"				
Weed Density, Unit	<1 M2	1 M2	5-10M2				
Assessed By	Reece & Vince	Glenn & Reece	Glenn & Reece				
Trt-Eval Interval	13 DA-B	106 DA-B	106 DA-B				
# Subsamples, Dec.	0	0	0				
Trt No.	Treatment Name	Rate	Grow Unit	Stg	9	10	11
9	2,4-D Ester	0.5 lb ae/a	SPRBD/pr		89 a	88 b	90 a
	Roundup Weathermax	0.77 lb ae/a	SPRBD/pr				
	AMS		SPRBD/pr				
	Flexstar	0.294 lb ai/a	4"/4 WAP				
	Fusion	0.2 lb ai/a	4"/4 WAP				
	Harmony GT	0.00197 lb ai/a	4"/4 WAP				
	Crop Oil Conc		4"/4 WAP				
	UAN (28%)		4"/4 WAP				
10	Gramoxone Max	0.64 lb ai/a	SPRBD/pr		100 a	100 a	99 a
	2,4-D Ester	0.5 lb ae/a	SPRBD/pr				
	Crop Oil Conc		SPRBD/pr				
	AMS		SPRBD/pr				
	Touchdown Total	0.78 lb ae/a	4"/4 WAP				
	AMS		4"/4 WAP				
11	Boundary	1.22 lb ai/a	SPRBD/pr		100 a	100 a	100 a
	Gramoxone Max	0.64 lb ai/a	SPRBD/pr				
	2,4-D Ester	0.5 lb ae/a	SPRBD/pr				
	Crop Oil Conc		SPRBD/pr				
	AMS		SPRBD/pr				
	Touchdown Total	0.78 lb ae/a	4"/4 WAP				
	AMS		4"/4 WAP				
12	Touchdown Total	0.78 lb ae/a	SPRBD/pr		100 a	100 a	100 a
	AMS		SPRBD/pr				
	Flexstar	0.117 lb ai/a	SPRBD/pr				
	Touchdown Total	0.78 lb ae/a	4"/4 WAP				
	AMS		4"/4 WAP				
13	Touchdown Total	0.78 lb ae/a	SPRBD/pr		100 a	100 a	99 a
	2,4-D Ester	0.5 lb ae/a	SPRBD/pr				
	AMS		SPRBD/pr				
	Touchdown Total	0.78 lb ae/a	4"/4 WAP				
	Fusion	0.12 lb ai/a	4"/4 WAP				
	AMS		4"/4 WAP				
14	Touchdown HiTech	0.75 lb ae/a	SPRBD/pr		100 a	100 a	100 a
	2,4-D Ester	0.5 lb ae/a	SPRBD/pr				
	NIS		SPRBD/pr				
	AMS		SPRBD/pr				
	Touchdown HiTech	0.75 lb ae/a	4"/4 WAP				
	NIS		4"/4 WAP				
	AMS		4"/4 WAP				
LSD (P=.05)					11.1	6.7	8.2
Standard Deviation					7.8	4.7	5.7
CV					8.63	5.11	6.46
Grand Mean					90.3	91.61	88.96
Bartlett's X2					4.992	0.475	28.707
P(Bartlett's X2)					0.172	0.491	0.001*
Replicate F					0.872	1.818	3.244
Replicate Prob(F)					0.4637	0.1598	0.0321
Treatment F					45.939	129.000	81.588
Treatment Prob(F)					0.0001	0.0001	0.0001

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

Purdue University

Weed Code	DIGSA	CHEAL	TAROF
Crop Code			
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Rating Date	6/Jul/2004	7/Oct/2004	7/Oct/2004
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Crop Stage Scale	12"		
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Assessed By	Reece & Vince	Glenn & Reece	Glenn & Reece
Trt-Eval Interval	13 DA-B	106 DA-B	106 DA-B
# Subsamples, Dec.	0	0	0

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