

General Weed Management in Soybean.

Project Code: 04-6A-M90 Location: Belleville Research Center
 Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
 Trial Status: Final Updated: 10-14-04

Objective:

Evaluate various herbicide programs from Syngenta, BASF and Dow for weed management in soybean.

Weed Code	Common Name	Scientific Name
1. SETFA	foxtail, giant	Setaria faberi Herrm.
2. AMATA	waterhemp, common	Amaranthus rudis Sauer
3. XANST	cocklebur, common	Xanthium strumarium L.
4. ABUTH	velvetleaf	Abutilon theophrasti Medicus
5. IPOSS	morningglory, species	Ipomoea sp.

Crop 1: GLXMA soybean Variety: AG 4403 RR
 Planting Method: Seeded Planting Date: 5-21-04
 Rate: 75 lb/A Depth: 1.0 IN
 Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 25 FT Reps: 3
 Tillage Type: Reduced-Till Study Design: Randomized complete block
 Previous Crop, Year: ZEAMX, 2003

Field Prep./Maintenance: N 0 LB/A, P2O5 50 LB/A, K2O 100 LB/A

Soil Name: Stoy % OM: 1.6 pH: 6.3 CEC: 7
 Texture: Silt loam Fert. Level: P1: 105 LB/A, K: 448 LB/A

APPLICATION DESCRIPTION

	A	B	C	D	E	F	G
Application Date:	5-24-04	6-18-04	6-22-04	6-22-04	6-24-04	7-9-04	6-28-04
Time of Day:	8:00	9:00	10:00	10:00	15:00	17:00	11:00
Application Method:	Spray	Spray	Spray	Spray	Spray	Spray	Spray
Application Timing:	PRE	4"W	4-8"W-1	4-8"W-2	10-12"W	2-4"RG	4-8"W-3
Applic. Placement:	BROSOI	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	70 F	74 F	71 F	71 F	88 F	89 F	88 F
% Relative Humidity:	98	98	77	77	40	60	38
Wind Velocity, Unit:	0 MPH	0 MPH	0 MPH	0 MPH	0-2 MPH	3 MPH	5 MPH
Soil Moisture:	NORMAL	ABONOR	NORMAL	NORMAL	NORMAL	ABONOR	BELNOR

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F	G
Crop 1 Code, Stage:	GLXMA NA	GLXMA V3	GLXMA V4	GLXMA V4	GLXMA V4-V5	GLXMA R1	GLXMA V4-V5
Height, Unit:	NA IN	7-8 IN	7-8 IN	7-8 IN	8-9 IN	20-22 IN	8-10 IN

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F	G
Weed 1 Code:	SETFA	SETFA	SETFA	SETFA	SETFA	SETFA	SETFA
Stage (leaves):		2-5	12-13	6-7	4-7		4-8
Height (inches):		1-4	8-10	6-7	10-12		3-7
Density:		Medium	High	Low	High		Medium
Weed 2 Code:	AMATA	AMATA	AMATA	AMATA	AMATA	AMATA	AMATA
Stage (leaves):		4-12	4-25	9-12	7-11	10-12	8-18
Height (inches):		1-8	1-12	5-9	9-15	2-5	5-9
Density:		Medium	High	High	Medium	Low	Low
Weed 3 Code:	XANST	XANST	XANST	XANST	XANST	XANST	XANST
Stage (leaves):		4-7	12-13	14-15	7-12		8-18
Height (inches):		2-10	7-8	7-12	12-15		5-9
Density:		Low	Medium	High	Medium		Medium
Weed 4 Code:	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
Stage (leaves):		4-6	5-8	7-8	6-7	4-6	
Height (inches):		7-9	3-9	7-9	4-8	4-5	
Density:		Medium	Medium	Medium	Low	Low	

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Weed 5 Code:	IPOSS	IPOSS	IPOSS	IPOSS	IPOSS	IPOSS	IPOSS
Stage (leaves):		4-6		9-11	7-11	2-12	20-25
Height (inches):		4-5		4-6	20-24	2-6	4-8
Density:		Low		Low	Low	Low	Low

APPLICATION EQUIPMENT

	A	B	C	D	E	F	G
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer
Operating Pressure:	40 PSI	40 PSI	40 PSI	40 PSI	40 PSI	40 PSI	40 PSI
Nozzle Type:	Flat fan	Flat fan	Flat fan	Flat fan	Flat fan	Flat fan	Flat fan
Nozzle Size:	8003	8002	8002	8002	8002	8002	8002
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT	7.5 FT	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA	20 GPA	20 GPA	20 GPA	20 GPA

NOTES:

Harvested 10-7-04, (2) 30 inch rows x 22 ft.

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Weed Code										SETFA	SETFA	SETFA	SETFA	AMATA	AMATA	AMATA	AMATA
Crop Code										GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type										Yield	Injury	Injury	Injury	Injury	Injury	Injury	Injury
Rating Unit										bu/A	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date										10-7-04	6-11-04	7-6-04	7-20-04	8-17-04	6-11-04	7-6-04	7-20-04
Trt-Eval Interval										18 DA-A	14 DA-D	28 DA-D	56 DA-D	18 DA-A	14 DA-D	28 DA-D	56 DA-D

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA Yield	GLXMA Injury	GLXMA Injury	GLXMA Injury	GLXMA Injury	SETFA Control	SETFA Control	SETFA Control	SETFA Control	AMATA Control	AMATA Control	AMATA Control	AMATA Control
1	BOUNDARY	6.5	EC	1.22	LB A/A	1.5	PT/A	PRE	A	55	0	0	0	0	99	99	99	97	99	99	99	98
1	TOUCHDOWN TOTAL	4.17	SC	0.78	LB AE/A	24	FL OZ/A	4-8"W-2	D													
1	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	4-8"W-2	D													
2	TOUCHDOWN TOTAL	4.17	SC	1.04	LB AE/A	32	FL OZ/A	10-12"W	E	52	0	0	0	0	0	99	99	99	0	93	99	99
2	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	10-12"W	E													
3	BOUNDARY	6.5	EC	1.22	LB A/A	1.5	PT/A	PRE	A	45	0	13	7	3	99	99	99	97	99	99	99	99
3	FLEXSTAR	1.88	EC	0.353	LB A/A	1.5	PT/A	4-8"W-2	D													
3	FUSION	2.56	EC	0.24	LB A/A	12	FL OZ/A	4-8"W-2	D													
3	DESTINY MSO	100	LIQ	1.0	% V/V	1	% V/V	4-8"W-2	D													
3	28% UAN	100	LIQ	2.0	% V/V	2	% V/V	4-8"W-2	D													
4	PROWL H2O	3.8	CS	1.19	LB A/A	2.5	PT/A	PRE	A	48	0	12	7	7	58	99	99	99	57	93	95	91
4	EXTREME	2.17	SL	0.81	LB A/A	3	PT/A	4-8"W-2	D													
4	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	% V/V	4-8"W-2	D													
4	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	4-8"W-2	D													
5	SCEPTER	70	WG	0.092	LB A/A	2.1	OZ/A	PRE	A	53	3	0	0	0	99	99	98	97	30	99	99	99
5	PROWL H2O	3.8	CS	1.19	LB A/A	2.5	PT/A	PRE	A													
5	TOUCHDOWN TOTAL	4.17	SC	0.78	LB AE/A	24	FL OZ/A	4-8"W-2	D													
5	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	4-8"W-2	D													
6	PROWL H2O	3.8	CS	1.19	LB A/A	2.5	PT/A	PRE	A	55	0	6	1	0	50	99	99	97	50	97	98	98
6	TOUCHDOWN TOTAL	4.17	SC	0.78	LB AE/A	24	FL OZ/A	4-8"W-2	D													
6	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	4-8"W-2	D													
7	PROWL H2O	3.8	CS	1.19	LB A/A	2.5	PT/A	PRE	A	42	0	12	8	2	63	90	93	92	43	98	98	97
7	RAPTOR	1	AS	0.0312	LB A/A	4	FL OZ/A	4"W	B													
7	ULTRA BLAZER	2	SL	0.187	LB A/A	12	FL OZ/A	4"W	B													
7	DESTINY MSO	100	LIQ	1.0	% V/V	1	% V/V	4"W	B													
7	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	4"W	B													
8	GF-1279	4	SL	0.75	LB AE/A	24	FL OZ/A	4-8"W-1	C	53	0	2	3	2	0	99	99	97	0	92	98	97
8	FIRSTRATE	84	WG	0.0157	LB A/A	0.3	OZ/A	4-8"W-1	C													
8	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	4-8"W-1	C													
9	GF-1279	4	SL	0.75	LB AE/A	24	FL OZ/A	4-8"W-1	C	55	0	0	0	0	0	99	99	99	0	94	99	99
9	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	4-8"W-1	C													
9	GF-1279	4	SL	0.75	LB AE/A	24	FL OZ/A	2-4"RG	F													
9	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	2-4"RG	F													
10	GANGSTER (MULTI-PACK)									45	0	15	7	7	98	97	96	92	98	99	99	98
10	->GANGSTER V	51	WG	0.048	LB A/A	1.5	OZ/A	PRE	A													
10	->GANGSTER FR	84	WG	0.0157	LB A/A	0.3	OZ/A	PRE	A													
10	COBRA	2	EC	0.094	LB A/A	6	FL OZ/A	4"W	B													
10	SELECT	2	EC	0.094	LB A/A	6	FL OZ/A	4"W	B													
10	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	4"W	B													
10	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	4"W	B													

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									SETFA	SETFA	SETFA	SETFA	AMATA	AMATA	AMATA	AMATA						
									GLXMA	GLXMA	GLXMA	GLXMA	GLXMA									
									Yield	Injury	Injury	Injury	Injury	Control	Control	Control	Control					
									bu/A	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent					
									10-7-04	6-11-04	7-6-04	7-20-04	8-17-04	6-11-04	7-6-04	7-20-04	8-17-04					
									18 DA-A	14 DA-D	28 DA-D	56 DA-D	18 DA-A	14 DA-D	28 DA-D	56 DA-D						
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code													
11	PENDIMAX	3.3	EC	1.24	LB A/A	3.0	PT/A	PRE	A	40	0	23	11	15	90	96	98	96	96			
11	FIRSTRATE	84	WG	0.0157	LB A/A	0.3	OZ/A	4"W	B													
11	COBRA	2	EC	0.094	LB A/A	6	FL OZ/A	4"W	B													
11	SELECT	2	EC	0.094	LB A/A	6	FL OZ/A	4"W	B													
11	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	4"W	B													
11	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	4"W	B													
12	PENDIMAX	3.3	EC	1.24	LB A/A	3.0	PT/A	PRE	A	24	0	6	0	0	98	57	53	37	99			
12	GANGSTER (MULTI-PACK)																					
12	->GANGSTER V	51	WG	0.096	LB A/A	3	OZ/A	PRE	A													
12	->GANGSTER FR	84	WG	0.0315	LB A/A	0.6	OZ/A	PRE	A													
13	VALOR	51	WG	0.064	LB A/A	2	OZ/A	PRE	A	46	0	14	8	6	91	97	97	94	99			
13	FIRSTRATE	84	WG	0.0157	LB A/A	0.3	OZ/A	4"W	B													
13	COBRA	2	EC	0.094	LB A/A	6	FL OZ/A	4"W	B													
13	SELECT	2	EC	0.094	LB A/A	6	FL OZ/A	4"W	B													
13	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	4"W	B													
13	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	4"W	B													
14	CANOPY XL	56.3	WG			4.5	OZ/A	PRE	A	45	0	0	0	2	96	99	98	95	99			
14	->CLASSIC	25	WG	0.0264	LB A/A			PRE	A													
14	->AUTHORITY	75	WG	0.132	LB A/A			PRE	A													
14	TOUCHDOWN TOTAL	4.17	SC	0.78	LB AE/A	24	FL OZ/A	4-8"W-3	G													
14	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	4-8"W-3	G													
15	NONTREATED									15	0	0	0	0	0	0	0	0	0	0		
LSD (P=.05)										10.0	2.5	6.5	4.2	7.3	10.6	7.1	9.0	14.1	6.7	4.3	2.6	17.1
Replicate F										4.765	1.000	0.141	0.138	0.659	0.844	0.862	1.486	1.243	1.352	2.066	1.275	1.126
Replicate Prob(F)										0.0166	0.3806	0.8694	0.8715	0.5252	0.4407	0.4332	0.2436	0.3039	0.2750	0.1456	0.2951	0.3384
Treatment F										10.911	1.000	11.116	7.994	2.796	133.652	118.633	75.884	33.883	341.391	283.081	831.878	22.417
Treatment Prob(F)										0.0001	0.4793	0.0001	0.0001	0.0100	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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								XANST	XANST	XANST	ABUTH	ABUTH	ABUTH	IPOSS	IPOSS	IPOSS			
								Control	Control	Control	Control	Control	Control	Control	Control	Control			
								Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent			
								7-6-04	7-20-04	8-17-04	7-6-04	7-20-04	8-17-04	7-6-04	7-20-04	8-17-04			
								14 DA-D	28 DA-D	56 DA-D	14 DA-D	28 DA-D	56 DA-D	14 DA-D	28 DA-D	56 DA-D			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code										
1	BOUNDARY	6.5	EC	1.22	LB A/A	1.5	PT/A	PRE	A	98	98	97	99	97	97	95	97	97	
1	TOUCHDOWN TOTAL	4.17	SC	0.78	LB AE/A	24	FL OZ/A	4-8"W-2	D										
1	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	4-8"W-2	D										
2	TOUCHDOWN TOTAL	4.17	SC	1.04	LB AE/A	32	FL OZ/A	10-12"W	E	99	99	99	99	99	99	96	95	96	
2	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	10-12"W	E										
3	BOUNDARY	6.5	EC	1.22	LB A/A	1.5	PT/A	PRE	A	99	98	96	99	99	99	98	94	90	
3	FLEXSTAR	1.88	EC	0.353	LB A/A	1.5	PT/A	4-8"W-2	D										
3	FUSION	2.56	EC	0.24	LB A/A	12	FL OZ/A	4-8"W-2	D										
3	DESTINY MSO	100	LIQ	1.0	% V/V	1	% V/V	4-8"W-2	D										
3	28% UAN	100	LIQ	2.0	% V/V	2	% V/V	4-8"W-2	D										
4	PROWL H2O	3.8	CS	1.19	LB A/A	2.5	PT/A	PRE	A	99	99	99	98	96	98	91	98	98	
4	EXTREME	2.17	SL	0.81	LB A/A	3	PT/A	4-8"W-2	D										
4	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	% V/V	4-8"W-2	D										
4	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	4-8"W-2	D										
5	SCEPTER	70	WG	0.092	LB A/A	2.1	OZ/A	PRE	A	99	99	98	99	99	99	98	99	98	
5	PROWL H2O	3.8	CS	1.19	LB A/A	2.5	PT/A	PRE	A										
5	TOUCHDOWN TOTAL	4.17	SC	0.78	LB AE/A	24	FL OZ/A	4-8"W-2	D										
5	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	4-8"W-2	D										
6	PROWL H2O	3.8	CS	1.19	LB A/A	2.5	PT/A	PRE	A	99	99	99	99	99	99	91	95	94	
6	TOUCHDOWN TOTAL	4.17	SC	0.78	LB AE/A	24	FL OZ/A	4-8"W-2	D										
6	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	4-8"W-2	D										
7	PROWL H2O	3.8	CS	1.19	LB A/A	2.5	PT/A	PRE	A	97	97	94	99	99	98	97	95	90	
7	RAPTOR	1	AS	0.0312	LB A/A	4	FL OZ/A	4"W	B										
7	ULTRA BLAZER	2	SL	0.187	LB A/A	12	FL OZ/A	4"W	B										
7	DESTINY MSO	100	LIQ	1.0	% V/V	1	% V/V	4"W	B										
7	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	4"W	B										
8	GF-1279	4	SL	0.75	LB AE/A	24	FL OZ/A	4-8"W-1	C	99	99	99	98	96	98	91	90	92	
8	FIRSTRATE	84	WG	0.0157	LB A/A	0.3	OZ/A	4-8"W-1	C										
8	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	4-8"W-1	C										
9	GF-1279	4	SL	0.75	LB AE/A	24	FL OZ/A	4-8"W-1	C	99	99	99	98	99	99	92	97	97	
9	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	4-8"W-1	C										
9	GF-1279	4	SL	0.75	LB AE/A	24	FL OZ/A	2-4"RG	F										
9	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	2-4"RG	F										
10	GANGSTER (MULTI-PACK)									97	97	95	99	98	98	97	94	95	
10	->GANGSTER V	51	WG	0.048	LB A/A	1.5	OZ/A	PRE	A										
10	->GANGSTER FR	84	WG	0.0157	LB A/A	0.3	OZ/A	PRE	A										
10	COBRA	2	EC	0.094	LB A/A	6	FL OZ/A	4"W	B										
10	SELECT	2	EC	0.094	LB A/A	6	FL OZ/A	4"W	B										
10	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	4"W	B										
10	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	4"W	B										

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									XANST	XANST	XANST	ABUTH	ABUTH	ABUTH	IPOSS	IPOSS	IPOSS	
									Control	Control	Control	Control	Control	Control	Control	Control	Control	
									Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
									7-6-04	7-20-04	8-17-04	7-6-04	7-20-04	8-17-04	7-6-04	7-20-04	8-17-04	
									14 DA-D	28 DA-D	56 DA-D	14 DA-D	28 DA-D	56 DA-D	14 DA-D	28 DA-D	56 DA-D	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code									
11	PENDIMAX	3.3	EC	1.24	LB A/A	3.0	PT/A	PRE	A	99	98	97	99	98	98	98	97	95
11	FIRSTRATE	84	WG	0.0157	LB A/A	0.3	OZ/A	4"W	B									
11	COBRA	2	EC	0.094	LB A/A	6	FL OZ/A	4"W	B									
11	SELECT	2	EC	0.094	LB A/A	6	FL OZ/A	4"W	B									
11	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	4"W	B									
11	AMS	100	DRY	2.5	LB/A	2.5	LB/A	4"W	B									
12	PENDIMAX	3.3	EC	1.24	LB A/A	3.0	PT/A	PRE	A	98	96	92	99	99	97	95	91	92
12	GANGSTER (MULTI-PACK)																	
12	->GANGSTER V	51	WG	0.096	LB A/A	3	OZ/A	PRE	A									
12	->GANGSTER FR	84	WG	0.0315	LB A/A	0.6	OZ/A	PRE	A									
13	VALOR	51	WG	0.064	LB A/A	2	OZ/A	PRE	A	99	99	98	99	99	99	98	96	96
13	FIRSTRATE	84	WG	0.0157	LB A/A	0.3	OZ/A	4"W	B									
13	COBRA	2	EC	0.094	LB A/A	6	FL OZ/A	4"W	B									
13	SELECT	2	EC	0.094	LB A/A	6	FL OZ/A	4"W	B									
13	PRIME OIL COC	100	LIQ	1.0	% V/V	1	% V/V	4"W	B									
13	AMS	100	DRY	2.5	LB A/A	2.5	LB/A	4"W	B									
14	CANOPY XL	56.3	WG			4.5	OZ/A	PRE	A	99	99	99	99	99	99	99	99	99
14	->CLASSIC	25	WG	0.0264	LB A/A			PRE	A									
14	->AUTHORITY	75	WG	0.132	LB A/A			PRE	A									
14	TOUCHDOWN TOTAL	4.17	SC	0.78	LB AE/A	24	FL OZ/A	4-8"W-3	G									
14	AMS	100	DRY	2.0	% W/W	17	LB/100 GAL	4-8"W-3	G									
15	NONTREATED									0	0	0	0	0	0	0	0	0
LSD (P=.05)										1.7	2.0	3.7	1.8	2.8	2.8	6.2	5.9	5.1
Replicate F										0.789	1.817	0.596	1.127	1.175	1.066	0.653	0.455	0.031
Replicate Prob(F)										0.4643	0.1812	0.5576	0.3382	0.3236	0.3580	0.5283	0.6392	0.9699
Treatment F										1917.042	1409.495	384.252	1732.424	710.563	666.865	132.486	149.413	193.393
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Trial Comments

1. Protocol.
2. Ratings: CI and WC prior to POST, 14 and 28 DA "D"; CI and WC at 56 DA "D" if necessary.
3. Yield if possible.
4. DA-A = Days after PRE application. DA-D = Days after 4-8"W-2 application. 18 DA-A = Prior to any postemergence applications.
5. Harvested 10-7-04, (2) 30 inch rows x 22 ft.