

Evaluation of Glyphosate Plus s-Metolachlor Formulations.

Project Code: 06-52-E60 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:** 11-22-06

Objective:

Determine any difference in efficacy observed with experimental formulations of glyphosate plus s-metolachlor.

Weed Code	Common Name	Scientific Name
1.	SETFA foxtail, giant	Setaria faberi Herrm.
2.	CYPES nutsedge, yellow	Cyperus esculentus L.
3.	XANST cocklebur, common	Xanthium strumarium L.
4.	AMATA waterhemp, common	Amaranthus rudis Sauer
5.	AMBTR ragweed, giant	Ambrosia trifida L.
6.	IPOSS morningglory, species	Ipomoea sp.

Crop 1: GLXMA soybean **Variety:** Asgrow 4403 RR
Planting Method: Seeded **Planting Date:** 5-22-06
Rate: 75 lb/A **Depth:** 1.0 IN
Row Spacing: 30 IN

Plot Width, Unit: 10 FT **Plot Length, Unit:** 25 FT **Reps:** 4
Tillage Type: No-Till **Study Design:** Randomized complete block
Previous Crop, Year: ZEAMX, 2005
Field Prep./Maintenance: N 0 LB/A, P205 0 LB/A, K20 100 LB/A

Soil Name: Weir **% OM:** 2.2 **pH:** 6.9 **CEC:** 9
Texture: Silt loam **Fert. Level:** P1: 107 LB/A, K: 420 LB/A

APPLICATION DESCRIPTION

	A	B	C
Application Date:	5-19-06	5-26-06	6-14-06
Time of Day:	8:00	8:00	13:30
Application Method:	Spray	Spray	Spray
Application Timing:	3DBP	PRE	V2
Applic. Placement:	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	66 F	76 F	84 F
% Relative Humidity:	60	90	50
Wind Velocity, Unit:	3 MPH	3 MPH	1-2 MPH
Soil Moisture:	ABONOR	NORMAL	NORMAL

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	GLXMA NA	GLXMA NA	GLXMA V2
Height, Unit:	NA NA	NA NA	4 IN

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code:			SETFA
Stage (leaves):			3-4
Height (inches):			5-6
Density:			Low
Weed 2 Code:			CYPES
Stage (leaves):			7-8
Height (inches):			6-7
Density:			Low
Weed 3 Code:			XANST
Stage (leaves):			4-6
Height (inches):			4-6
Density:			Medium
Weed 4 Code:			AMATA
Stage (leaves):			7-8
Height (inches):			3-5
Density:			High
Weed 5 Code:			AMBTR
Stage (leaves):			4-6
Height (inches):			5-7
Density:			Low
Weed 6 Code:			IPOSS
Stage (leaves):			2-6
Height (inches):			0-4
Density:			Low

APPLICATION EQUIPMENT

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

NOTES:

Evaluation of Glyphosate Plus s-Metolachlor Formulations.

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Weed Code
 Crop Code
 Rating Data Type
 Rating Unit
 Rating Date
 Trt-Eval Interval

GLXMA GLXMA GLXMA GLXMA GLXMA GLXMA GLXMA
 Moisture Yield Injury Injury Injury Injury Injury
 Percent bu/A Percent Percent Percent Percent Percent
 10-24-06 10-24-06 6-4-06 6-12-06 6-21-06 6-28-06 7-26-06
 7 DAE 14 DAE 7 DA-C 14 DA-C 42 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	GLXMA Moisture Percent	GLXMA Yield bu/A	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent
1	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	12.5	13	0	0	0	0	0
1	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
2	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	12.3	12	0	0	0	0	0
2	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
2	SEQUENCE	5.25	EW	1.64	lb ai/a	2.5	pt/a	PRE	B							
3	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	12.5	10	0	0	0	0	0
3	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
3	A13886	5.25	EW	1.64	lb ai/a	2.5	pt/a	PRE	B							
4	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	12.8	9	0	0	0	0	0
4	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
4	A14941	4.66	CS	1.46	lb ai/a	2.5	pt/a	PRE	B							
5	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	12.4	12	0	0	0	0	0
5	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
5	DUAL MAGNUM	7.62	EC	0.93	lb ai/a	0.98	pt/a	PRE	B							
5	TOUCHDOWN TOTAL	4.17	SC	0.704	lb ae/a	21.6	fl oz/a	PRE	B							
6	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	12.4	16	0	0	0	0	0
6	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
6	PREFIX	5.28	EW	1.32	lb ai/a	2	pt/a	PRE	B							
7	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	12.4	42	0	0	3	2	0
7	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
7	SEQUENCE	5.25	EW	1.64	lb ai/a	2.5	pt/a	V2	C							
8	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	12.4	42	0	0	3	1	0
8	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
8	A13886	5.25	EW	1.64	lb ai/a	2.5	pt/a	V2	C							
9	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	12.4	43	0	0	3	2	0
9	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
9	A14941	4.66	CS	1.46	lb ai/a	2.5	pt/a	V2	C							
10	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	12.4	46	0	0	4	1	0
10	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
10	DUAL MAGNUM	7.62	EC	0.93	lb ai/a	0.98	pt/a	V2	C							
10	TOUCHDOWN TOTAL	4.17	SC	0.704	lb ae/a	21.6	fl oz/a	V2	C							
11	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	12.4	44	0	0	0	0	0
11	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A							
11	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	V2	C							
LSD (P=.05)										0.29	7.3	0.0	0.0	1.3	0.6	0.0
Replicate F										1.271	2.824	0.000	0.000	1.379	0.896	0.000
Replicate Prob(F)										0.3020	0.0555	1.0000	1.0000	0.2681	0.4545	1.0000
Treatment F										1.313	42.385	0.000	0.000	11.156	13.528	0.000
Treatment Prob(F)										0.2682	0.0001	1.0000	1.0000	0.0001	0.0001	1.0000

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								SETFA	SETFA	SETFA	CYPES	CYPES	CYPES		
								Control	Control	Control	Control	Control	Control		
								Percent	Percent	Percent	Percent	Percent	Percent		
								6-15-06	7-12-06	7-26-06	6-15-06	7-12-06	7-26-06		
								1 DA-C	28 DA-C	42 DA-C	1 DA-C	28 DA-C	42 DA-C		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code						
1	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	0	0	0	0	0
1	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
2	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	99	98	95	85	76	76
2	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
2	SEQUENCE	5.25	EW	1.64	lb ai/a	2.5	pt/a	PRE	B						
3	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	99	98	97	93	89	88
3	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
3	A13886	5.25	EW	1.64	lb ai/a	2.5	pt/a	PRE	B						
4	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	97	98	96	93	84	84
4	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
4	A14941	4.66	CS	1.46	lb ai/a	2.5	pt/a	PRE	B						
5	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	99	98	97	89	88	90
5	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
5	DUAL MAGNUM	7.62	EC	0.93	lb ai/a	0.98	pt/a	PRE	B						
5	TOUCHDOWN TOTAL	4.17	SC	0.704	lb ae/a	21.6	fl oz/a	PRE	B						
6	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	97	96	96	89	84	85
6	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
6	PREFIX	5.28	EW	1.32	lb ai/a	2	pt/a	PRE	B						
7	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	99	99	0	98	97
7	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
7	SEQUENCE	5.25	EW	1.64	lb ai/a	2.5	pt/a	V2	C						
8	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	99	99	0	97	97
8	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
8	A13886	5.25	EW	1.64	lb ai/a	2.5	pt/a	V2	C						
9	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	99	99	0	97	96
9	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
9	A14941	4.66	CS	1.46	lb ai/a	2.5	pt/a	V2	C						
10	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	99	99	0	97	97
10	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
10	DUAL MAGNUM	7.62	EC	0.93	lb ai/a	0.98	pt/a	V2	C						
10	TOUCHDOWN TOTAL	4.17	SC	0.704	lb ae/a	21.6	fl oz/a	V2	C						
11	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	99	99	0	97	98
11	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A						
11	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	V2	C						
LSD (P=.05)										1.1	0.9	2.2	5.3	8.5	8.3
Replicate F										1.214	0.362	0.701	0.220	0.859	0.940
Replicate Prob(F)										0.3218	0.7806	0.5591	0.8820	0.4731	0.4338
Treatment F										16684.168	8384.088	1516.490	658.165	93.348	97.399
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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										XANST	XANST	XANST	AMATA	AMATA	AMATA	AMBTR	AMBTR	AMBTR
										Control	Control	Control	Control	Control	Control	Control	Control	Control
										Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
										6-15-06	7-12-06	7-26-06	6-15-06	7-12-06	7-26-06	6-15-06	7-12-06	7-26-06
										1 DA-C	28 DA-C	42 DA-C	1 DA-C	28 DA-C	42 DA-C	1 DA-C	28 DA-C	42 DA-C
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code									
1	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	0	0	0	0	0	0	0	0
1	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A									
2	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	75	48	36	93	85	70	88	69	49
2	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A									
2	SEQUENCE	5.25	EW	1.64	lb ai/a	2.5	pt/a	PRE	B									
3	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	80	59	44	89	83	68	80	61	35
3	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A									
3	A13886	5.25	EW	1.64	lb ai/a	2.5	pt/a	PRE	B									
4	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	66	24	13	89	83	63	80	71	50
4	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A									
4	A14941	4.66	CS	1.46	lb ai/a	2.5	pt/a	PRE	B									
5	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	89	60	43	88	83	68	88	63	35
5	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A									
5	DUAL MAGNUM	7.62	EC	0.93	lb ai/a	0.98	pt/a	PRE	B									
5	TOUCHDOWN TOTAL	4.17	SC	0.704	lb ae/a	21.6	fl oz/a	PRE	B									
6	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	80	58	33	97	97	94	93	90	78
6	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A									
6	PREFIX	5.28	EW	1.32	lb ai/a	2	pt/a	PRE	B									
7	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	98	98	0	98	99	0	98	97
7	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A									
7	SEQUENCE	5.25	EW	1.64	lb ai/a	2.5	pt/a	V2	C									
8	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	98	97	0	98	96	0	97	94
8	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A									
8	A13886	5.25	EW	1.64	lb ai/a	2.5	pt/a	V2	C									
9	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	98	96	0	98	97	0	98	96
9	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A									
9	A14941	4.66	CS	1.46	lb ai/a	2.5	pt/a	V2	C									
10	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	98	98	0	98	98	0	98	96
10	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A									
10	DUAL MAGNUM	7.62	EC	0.93	lb ai/a	0.98	pt/a	V2	C									
10	TOUCHDOWN TOTAL	4.17	SC	0.704	lb ae/a	21.6	fl oz/a	V2	C									
11	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	98	97	0	98	98	0	98	97
11	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A									
11	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	V2	C									
LSD (P=.05)										10.0	25.2	31.5	4.9	8.4	17.6	9.4	22.6	29.8
Replicate F										3.870	4.194	4.828	1.485	1.818	1.360	3.640	3.450	2.689
Replicate Prob(F)										0.0188	0.0136	0.0074	0.2385	0.1652	0.2739	0.0237	0.0288	0.0641
Treatment F										141.219	15.466	12.273	783.486	97.612	23.555	191.297	14.320	10.703
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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Weed Code	IPOSS	IPOSS	IPOSS
Crop Code			
Rating Data Type	Control	Control	Control
Rating Unit	Percent	Percent	Percent
Rating Date	6-15-06	7-12-06	7-26-06
Trt-Eval Interval	1 DA-C	28 DA-C	42 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code			
1	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	0	0
1	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
2	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	90	61	53
2	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
2	SEQUENCE	5.25	EW	1.64	lb ai/a	2.5	pt/a	PRE	B			
3	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	94	69	55
3	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
3	A13886	5.25	EW	1.64	lb ai/a	2.5	pt/a	PRE	B			
4	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	95	75	58
4	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
4	A14941	4.66	CS	1.46	lb ai/a	2.5	pt/a	PRE	B			
5	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	96	93	86
5	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
5	DUAL MAGNUM	7.62	EC	0.93	lb ai/a	0.98	pt/a	PRE	B			
5	TOUCHDOWN TOTAL	4.17	SC	0.704	lb ae/a	21.6	fl oz/a	PRE	B			
6	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	92	75	66
6	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
6	PREFIX	5.28	EW	1.32	lb ai/a	2	pt/a	PRE	B			
7	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	97	91
7	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
7	SEQUENCE	5.25	EW	1.64	lb ai/a	2.5	pt/a	V2	C			
8	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	96	96
8	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
8	A13886	5.25	EW	1.64	lb ai/a	2.5	pt/a	V2	C			
9	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	98	95
9	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
9	A14941	4.66	CS	1.46	lb ai/a	2.5	pt/a	V2	C			
10	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	97	93
10	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
10	DUAL MAGNUM	7.62	EC	0.93	lb ai/a	0.98	pt/a	V2	C			
10	TOUCHDOWN TOTAL	4.17	SC	0.704	lb ae/a	21.6	fl oz/a	V2	C			
11	GRAMOXONE INTEON	2	SL	0.75	lb ai/a	3	pt/a	3DBP	A	0	97	91
11	PRIME OIL COC	100	LIQ	1.0	% v/v	1	% v/v	3DBP	A			
11	TOUCHDOWN TOTAL	4.17	SC	0.78	lb ae/a	24	fl oz/a	V2	C			
LSD (P=.05)										5.4	26.9	33.3
Replicate F										0.643	1.233	1.448
Replicate Prob(F)										0.5931	0.3149	0.2485
Treatment F										674.792	9.744	6.386
Treatment Prob(F)										0.0001	0.0001	0.0001

Trial Comments

1. Protocol: Syngenta.
2. Ratings: CI 7 + 14 DAE and 7, 14, and 28 DA V2; WC at V2 and 28 + 42 DA V2.
3. Record the number of days after "B" and "C" before second weed flush becomes visible to the eye in each plot.
4. Yield.
5. Rinse between treatments 7-11 for V2 application.
6. Blanket burndown application at 3 days before planned planting date, see trt list.
Blanket application is 10 ft wide to all plots.
7. DAE = Days after crop emergence. DA-C = Days after V2 application.
Ratings at 1 DA-C are at the V2 application.
8. IPOSS was IPOHE (ivyleaf morningglory) and IPOLA (pitted morningglory).
9. Harvested 10-24-06, (2) 30 inch rows by 22 ft.