

Total Postemergence and Sequential Programs in Corn.

Project Code: 07-51W-N70 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: 1-23-08

Objective:  
 Evaluate various programs for broad spectrum weed control in corn.

- | Weed Code | Common Name       | Scientific Name              |
|-----------|-------------------|------------------------------|
| 1. SETFA  | foxtail, giant    | Setaria faberi Herrm.        |
| 2. AMBTR  | ragweed, giant    | Ambrosia trifida L.          |
| 3. AMATA  | waterhemp, common | Amaranthus rudis Sauer       |
| 4. ABUTH  | velvetleaf        | Abutilon theophrasti Medicus |
| 5. CYPES  | nutsedge, yellow  | Cyperus esculentus L.        |

Crop 1: ZEAMX corn, field Variety: 33K44  
 Planting Method: Seeded Planting Date: 5-22-07  
 Rate: 28000 S/A Depth: 1.5 IN  
 Row Spacing: 30 IN

Plot Width, Unit: 10 FT Plot Length, Unit: 27 FT Reps: 3  
 Tillage Type: Reduced-Till Study Design: Randomized complete block  
 Previous Crop, Year: ZEAMX, 2006  
 Field Prep./Maintenance: N 150 LB/A, P205 0 LB/A, K20 100 LB/A

Soil Name: Weir % OM: 2.1 pH: 6.8 CEC: 11  
 Texture: Silt loam Fert. Level: P1: 92 LB/A, K: 336 LB/A

APPLICATION DESCRIPTION	A	B	C	D	E
Application Date:	5-23-07	6-2-07	6-11-07	6-14-07	6-12-07
Time of Day:	7:15	8:00	9:00	7:00	10:00
Application Method:	Spray	Spray	Spray	Spray	Spray
Application Timing:	PRE	1-2"W	3-5"W	2-4"W	10-12"CN
Applic. Placement:	BROSIO	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	70 F	64 F	70 F	78 F	86 F
% Relative Humidity:	82	92	92	90	38
Wind Velocity, Unit:	0-1 MPH	0-1 MPH	0-1 MPH	0 MPH	0 MPH
Dew Presence (Y/N):	N	N	N	Y	
Soil Moisture:	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
% Cloud Cover:	80	30	100	0	

CROP STAGE AT EACH APPLICATION	A	B	C	D	E
Crop 1 Code, Stage:	ZEAMX NA	ZEAMX V2	ZEAMX V4	ZEAMX V4-V5	ZEAMX V4
Height, Unit:	NA NA	5-6 IN	10-11 IN	10-12 IN	10-12 IN

WEED STAGE AT EACH APPLICATION	A	B	C	D	E
Weed 1 Code:	SETFA	SETFA	SETFA	SETFA	SETFA
Stage(leaves):	1-2	3-5	2-4	2-4	2-4
Height(inches):	0-0.5	2-4	2-4	2-4	2-4
Density:	Low	Low	Low	Low	Low
Weed 2 Code:	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR
Stage(leaves):	Coty-2	4-6	2-8	2-6	2-6
Height(inches):	0.5-2	2-5	1-4	0-5	0-5
Density:	High	High	High	High	High
Weed 3 Code:	AMATA	AMATA	AMATA	AMATA	AMATA
Stage(leaves):	Coty-2	2-6	2-6	2-6	2-6
Height(inches):	0-1	1-3	1-3	1-3	1-3
Density:	Low	Low	Low	Low	Low
Weed 4 Code:	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
Stage(leaves):	Coty-1	2-5	2-6	3-5	3-5
Height(inches):	0.5-1.5	2-5	1-3	2-5	2-5
Density:	High	Medium	High	Medium	Medium
Weed 5 Code:	CYPES	CYPES	CYPES	CYPES	CYPES
Stage(leaves):	2-8	6-12	3-13	3-10	3-10
Height(inches):	1-3	3-4	2-5	3-5	3-5
Density:	High	High	High	High	High

APPLICATION EQUIPMENT	A	B	C	D	E
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer
Operating Pressure:	40 PSI	40 PSI	40 PSI	40 PSI	40 PSI
Nozzle Type:	Flat fan	Flat fan	Flat fan	Flat fan	Flat fan
Nozzle Size:	XR 8002	XR 8002	XR 8002	XR 8002	XR 8002
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA	15 GPA	15 GPA

NOTES:

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

ZEAMX ZEAMX ZEAMX ZEAMX ZEAMX ZEAMX ZEAMX  
 Moisture Yield Injury Injury Injury Injury Injury  
 Percent bu/A Percent Percent Percent Percent Percent  
 10-5-07 10-5-07 6-12-07 6-18-07 6-25-07 7-9-07 8-6-07  
 -2 DA-D 7 DA-C 14 DA-C 28 DA-C 56 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	10-5-07	10-5-07	6-12-07	6-18-07	6-25-07	7-9-07	8-6-07
1	NONTREATED									14.1 ab	41 f	0 a	0 a	0 a	0 a	0 a
2	GUARDSMAN MAX	5 L		1.56 lb ai/a		2.5 pt/a		PRE	A	14.5 ab	201 a	0 a	0 a	0 a	0 a	0 a
2	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		10-12"CN	E							
2	N-PAK AMS	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E							
3	GUARDSMAN MAX	5 L		1.56 lb ai/a		2.5 pt/a		PRE	A	13.8 b	199 ab	0 a	0 a	0 a	0 a	0 a
3	STATUS	56 WG		0.0875 lb ai/a		2.5 oz/a		10-12"CN	E							
3	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		10-12"CN	E							
3	N-PAK AMS	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E							
4	SURESTART	4.25 SE		0.93 lb ai/a		1.75 pt/a		PRE	A	14.6 ab	187 bcd	0 a	0 a	0 a	0 a	0 a
4	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		2-4"W	D							
4	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		2-4"W	D							
5	KEYSTONE	5.25 L		1.97 lb ai/a		1.5 qt/a		PRE	A	14.3 ab	198 ab	0 a	0 a	0 a	0 a	0 a
5	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		2-4"W	D							
5	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		2-4"W	D							
6	HORNET	68.5 WG		0.086 lb ai/a		2 oz/a		PRE	A	14.4 ab	190 a-d	0 a	0 a	0 a	0 a	0 a
6	AATREX	90 WG		1.0 lb ai/a		1.11 lb/a		PRE	A							
6	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		2-4"W	D							
6	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		2-4"W	D							
7	PYTHON	80 WG		0.031 lb ai/a		0.62 oz/a		PRE	A	14.4 ab	200 a	0 a	0 a	0 a	0 a	0 a
7	AATREX	90 WG		0.75 lb ai/a		0.83 lb/a		PRE	A							
7	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		2-4"W	D							
7	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		2-4"W	D							
8	SURESTART	4.25 SE		0.93 lb ai/a		1.75 pt/a		1-2"W	B	14.4 ab	193 a-d	0 a	0 a	0 a	0 a	0 a
8	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		1-2"W	B							
8	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		1-2"W	B							
9	IMPACT	2.8 SC		0.0164 lb ai/a		0.75 fl oz/a		3-5"W	C	14.9 a	184 cd	0 a	0 a	0 a	0 a	0 a
9	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		3-5"W	C							
9	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		3-5"W	C							
9	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		3-5"W	C							
10	CALLISTO	4 SC		0.094 lb ai/a		3 fl oz/a		3-5"W	C	14.6 ab	183 d	0 a	0 a	0 a	0 a	0 a
10	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		3-5"W	C							
10	PRIME OIL COC	100 LIQ		1.0 % v/v		1 % v/v		3-5"W	C							
10	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		3-5"W	C							
11	LAUDIS	3.5 SC		0.082 lb ai/a		3 fl oz/a		3-5"W	C	14.6 ab	166 e	0 a	0 a	0 a	0 a	0 a
11	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		3-5"W	C							
11	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		3-5"W	C							
11	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		3-5"W	C							
12	BICEP II MAGNUM	5.5 L		1.65 lb ai/a		1.2 qt/a		PRE	A	14.2 ab	198 ab	0 a	0 a	0 a	0 a	0 a
12	IMPACT	2.8 SC		0.0164 lb ai/a		0.75 fl oz/a		10-12"CN	E							
12	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		10-12"CN	E							
12	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		10-12"CN	E							
12	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E							
13	BICEP II MAGNUM	5.5 L		1.65 lb ai/a		1.2 qt/a		PRE	A	14.9 a	183 d	0 a	0 a	0 a	0 a	0 a
13	CALLISTO	4 SC		0.094 lb ai/a		3 fl oz/a		10-12"CN	E							
13	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		10-12"CN	E							
13	PRIME OIL COC	100 LIQ		1.0 % v/v		1 % v/v		10-12"CN	E							
13	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E							
14	BICEP II MAGNUM	5.5 L		1.65 lb ai/a		1.2 qt/a		PRE	A	14.6 ab	197 abc	0 a	0 a	0 a	0 a	0 a
14	LAUDIS	3.5 SC		0.082 lb ai/a		3 fl oz/a		10-12"CN	E							
14	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		10-12"CN	E							
14	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		10-12"CN	E							
14	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E							
LSD (P=.05)										0.91	13.2	0.0	0.0	0.0	0.0	0.0
Replicate F										1.918	3.180	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)										0.1671	0.0581	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F										0.865	82.710	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)										0.5957	0.0001	1.0000	1.0000	1.0000	1.0000	1.0000

Means followed by same letter do not significantly differ (P=.05, LSD)

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 Investigator: Bryan Young

Weed Code	SETFA	SETFA	SETFA	SETFA	SETFA
Crop Code					
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Date	6-12-07	6-18-07	6-25-07	7-9-07	8-6-07
Trt-Eval Interval	-2 DA-D	7 DA-C	14 DA-C	28 DA-C	56 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code					
1	NONTREATED									0 d	0 d	0 c	0 c	0 c
2	GUARDSMAN MAX	5 L		1.56 lb ai/a		2.5 pt/a		PRE	A	99 a	99 a	98 a	98 a	96 a
2	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		10-12"CN	E					
2	N-PAK AMS	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E					
3	GUARDSMAN MAX	5 L		1.56 lb ai/a		2.5 pt/a		PRE	A	99 a	99 a	99 a	99 a	99 a
3	STATUS	56 WG		0.0875 lb ai/a		2.5 oz/a		10-12"CN	E					
3	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		10-12"CN	E					
3	N-PAK AMS	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E					
4	SURESTART	4.25 SE		0.93 lb ai/a		1.75 pt/a		PRE	A	99 a	99 a	99 a	98 a	99 a
4	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		2-4"W	D					
4	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		2-4"W	D					
5	KEYSTONE	5.25 L		1.97 lb ai/a		1.5 qt/a		PRE	A	99 a	99 a	99 a	99 a	99 a
5	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		2-4"W	D					
5	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		2-4"W	D					
6	HORNET	68.5 WG		0.086 lb ai/a		2 oz/a		PRE	A	58 b	99 a	99 a	99 a	99 a
6	AATREX	90 WG		1.0 lb ai/a		1.11 lb/a		PRE	A					
6	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		2-4"W	D					
6	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		2-4"W	D					
7	PYTHON	80 WG		0.031 lb ai/a		0.62 oz/a		PRE	A	35 c	99 a	99 a	99 a	99 a
7	AATREX	90 WG		0.75 lb ai/a		0.83 lb/a		PRE	A					
7	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		2-4"W	D					
7	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		2-4"W	D					
8	SURESTART	4.25 SE		0.93 lb ai/a		1.75 pt/a		1-2"W	B	99 a	99 a	95 a	95 a	93 ab
8	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		1-2"W	B					
8	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		1-2"W	B					
9	IMPACT	2.8 SC		0.0164 lb ai/a		0.75 fl oz/a		3-5"W	C		89 b	93 a	78 b	87 b
9	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		3-5"W	C					
9	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		3-5"W	C					
9	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		3-5"W	C					
10	CALLISTO	4 SC		0.094 lb ai/a		3 fl oz/a		3-5"W	C		53 c	40 b	7 c	7 c
10	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		3-5"W	C					
10	PRIME OIL COC	100 LIQ		1.0 % v/v		1 % v/v		3-5"W	C					
10	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		3-5"W	C					
11	LAUDIS	3.5 SC		0.082 lb ai/a		3 fl oz/a		3-5"W	C		92 b	98 a	78 b	87 b
11	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		3-5"W	C					
11	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		3-5"W	C					
11	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		3-5"W	C					
12	BICEP II MAGNUM	5.5 L		1.65 lb ai/a		1.2 qt/a		PRE	A	98 a	98 a	99 a	99 a	99 a
12	IMPACT	2.8 SC		0.0164 lb ai/a		0.75 fl oz/a		10-12"CN	E					
12	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		10-12"CN	E					
12	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		10-12"CN	E					
12	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E					
13	BICEP II MAGNUM	5.5 L		1.65 lb ai/a		1.2 qt/a		PRE	A	99 a	99 a	98 a	99 a	99 a
13	CALLISTO	4 SC		0.094 lb ai/a		3 fl oz/a		10-12"CN	E					
13	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		10-12"CN	E					
13	PRIME OIL COC	100 LIQ		1.0 % v/v		1 % v/v		10-12"CN	E					
13	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E					
14	BICEP II MAGNUM	5.5 L		1.65 lb ai/a		1.2 qt/a		PRE	A	98 a	99 a	99 a	98 a	98 a
14	LAUDIS	3.5 SC		0.082 lb ai/a		3 fl oz/a		10-12"CN	E					
14	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		10-12"CN	E					
14	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		10-12"CN	E					
14	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E					
LSD (P=.05)										13.6	5.6	12.2	8.1	6.9
Replicate F										1.654	0.578	1.492	1.296	0.907
Replicate Prob(F)										0.2165	0.5683	0.2436	0.2906	0.4161
Treatment F										54.904	211.736	49.485	147.690	202.919
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

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Crop Code					
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Date	6-12-07	6-18-07	6-25-07	7-9-07	8-6-07
Trt-Eval Interval	-2 DA-D	7 DA-C	14 DA-C	28 DA-C	56 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code					
1	NONTREATED									0 g	0 c	0 c	0 d	0 d
2	GUARDSMAN MAX	5 L		1.56 lb ai/a		2.5 pt/a		PRE	A	85 bc	98 a	97 a	96 b	95 ab
2	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		10-12"CN	E					
2	N-PAK AMS	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E					
3	GUARDSMAN MAX	5 L		1.56 lb ai/a		2.5 pt/a		PRE	A	87 bc	99 a	98 a	96 b	98 a
3	STATUS	56 WG		0.0875 lb ai/a		2.5 oz/a		10-12"CN	E					
3	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		10-12"CN	E					
3	N-PAK AMS	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E					
4	SURESTART	4.25 SE		0.93 lb ai/a		1.75 pt/a		PRE	A	72 f	99 a	97 a	99 a	95 ab
4	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		2-4"W	D					
4	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		2-4"W	D					
5	KEYSTONE	5.25 L		1.97 lb ai/a		1.5 qt/a		PRE	A	86 bc	98 a	97 a	96 b	92 bc
5	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		2-4"W	D					
5	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		2-4"W	D					
6	HORNET	68.5 WG		0.086 lb ai/a		2 oz/a		PRE	A	88 b	98 a	99 a	96 b	96 ab
6	AATREX	90 WG		1.0 lb ai/a		1.11 lb/a		PRE	A					
6	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		2-4"W	D					
6	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		2-4"W	D					
7	PYTHON	80 WG		0.031 lb ai/a		0.62 oz/a		PRE	A	78 e	98 a	98 a	96 b	96 ab
7	AATREX	90 WG		0.75 lb ai/a		0.83 lb/a		PRE	A					
7	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		2-4"W	D					
7	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		2-4"W	D					
8	SURESTART	4.25 SE		0.93 lb ai/a		1.75 pt/a		1-2"W	B	93 a	86 b	82 b	73 c	87 c
8	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		1-2"W	B					
8	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		1-2"W	B					
9	IMPACT	2.8 SC		0.0164 lb ai/a		0.75 fl oz/a		3-5"W	C		99 a	99 a	98 ab	92 bc
9	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		3-5"W	C					
9	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		3-5"W	C					
9	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		3-5"W	C					
10	CALLISTO	4 SC		0.094 lb ai/a		3 fl oz/a		3-5"W	C		99 a	99 a	99 a	99 a
10	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		3-5"W	C					
10	PRIME OIL COC	100 LIQ		1.0 % v/v		1 % v/v		3-5"W	C					
10	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		3-5"W	C					
11	LAUDIS	3.5 SC		0.082 lb ai/a		3 fl oz/a		3-5"W	C		99 a	99 a	99 a	96 ab
11	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		3-5"W	C					
11	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		3-5"W	C					
11	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		3-5"W	C					
12	BICEP II MAGNUM	5.5 L		1.65 lb ai/a		1.2 qt/a		PRE	A	83 cd	99 a	99 a	98 ab	98 a
12	IMPACT	2.8 SC		0.0164 lb ai/a		0.75 fl oz/a		10-12"CN	E					
12	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		10-12"CN	E					
12	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		10-12"CN	E					
12	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E					
13	BICEP II MAGNUM	5.5 L		1.65 lb ai/a		1.2 qt/a		PRE	A	83 cd	99 a	98 a	99 a	98 a
13	CALLISTO	4 SC		0.094 lb ai/a		3 fl oz/a		10-12"CN	E					
13	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		10-12"CN	E					
13	PRIME OIL COC	100 LIQ		1.0 % v/v		1 % v/v		10-12"CN	E					
13	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E					
14	BICEP II MAGNUM	5.5 L		1.65 lb ai/a		1.2 qt/a		PRE	A	80 de	99 a	99 a	98 ab	99 a
14	LAUDIS	3.5 SC		0.082 lb ai/a		3 fl oz/a		10-12"CN	E					
14	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		10-12"CN	E					
14	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		10-12"CN	E					
14	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E					
LSD (P=.05)										4.3	3.2	3.1	2.5	5.4
Replicate F										2.845	0.285	1.058	7.084	0.878
Replicate Prob(F)										0.0818	0.7541	0.3615	0.0035	0.4276
Treatment F										317.710	578.669	591.861	974.501	188.690
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

Total Postemergence and Sequential Programs in Corn.

Project Code: 07-51W-N70 Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code	AMATA	AMATA	AMATA	AMATA	AMATA
Crop Code					
Rating Data Type	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent
Rating Date	6-12-07	6-18-07	6-25-07	7-9-07	8-6-07
Trt-Eval Interval	-2 DA-D	7 DA-C	14 DA-C	28 DA-C	56 DA-C

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code						
1	NONTREATED										0 b	0 b	0 b	0 b	
2	GUARDSMAN MAX	5 L		1.56 lb ai/a		2.5 pt/a		PRE	A		99 a	99 a	99 a	99 a	
2	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		10-12"CN	E						
2	N-PAK AMS	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E						
3	GUARDSMAN MAX	5 L		1.56 lb ai/a		2.5 pt/a		PRE	A		99 a	99 a	99 a	99 a	
3	STATUS	56 WG		0.0875 lb ai/a		2.5 oz/a		10-12"CN	E						
3	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		10-12"CN	E						
3	N-PAK AMS	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E						
4	SURESTART	4.25 SE		0.93 lb ai/a		1.75 pt/a		PRE	A		99 a	99 a	99 a	99 a	
4	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		2-4"W	D						
4	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		2-4"W	D						
5	KEYSTONE	5.25 L		1.97 lb ai/a		1.5 qt/a		PRE	A		99 a	99 a	99 a	99 a	
5	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		2-4"W	D						
5	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		2-4"W	D						
6	HORNET	68.5 WG		0.086 lb ai/a		2 oz/a		PRE	A		99 a	99 a	99 a	99 a	
6	AATREX	90 WG		1.0 lb ai/a		1.11 lb/a		PRE	A						
6	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		2-4"W	D						
6	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		2-4"W	D						
7	PYTHON	80 WG		0.031 lb ai/a		0.62 oz/a		PRE	A		99 a	99 a	99 a	99 a	
7	AATREX	90 WG		0.75 lb ai/a		0.83 lb/a		PRE	A						
7	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		2-4"W	D						
7	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		2-4"W	D						
8	SURESTART	4.25 SE		0.93 lb ai/a		1.75 pt/a		1-2"W	B		99 a	99 a	99 a	99 a	
8	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		1-2"W	B						
8	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		1-2"W	B						
9	IMPACT	2.8 SC		0.0164 lb ai/a		0.75 fl oz/a		3-5"W	C			99 a	99 a	99 a	
9	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		3-5"W	C						
9	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		3-5"W	C						
9	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		3-5"W	C						
10	CALLISTO	4 SC		0.094 lb ai/a		3 fl oz/a		3-5"W	C			99 a	99 a	99 a	
10	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		3-5"W	C						
10	PRIME OIL COC	100 LIQ		1.0 % v/v		1 % v/v		3-5"W	C						
10	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		3-5"W	C						
11	LAUDIS	3.5 SC		0.082 lb ai/a		3 fl oz/a		3-5"W	C			99 a	99 a	99 a	
11	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		3-5"W	C						
11	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		3-5"W	C						
11	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		3-5"W	C						
12	BICEP II MAGNUM	5.5 L		1.65 lb ai/a		1.2 qt/a		PRE	A		99 a	99 a	99 a	99 a	
12	IMPACT	2.8 SC		0.0164 lb ai/a		0.75 fl oz/a		10-12"CN	E						
12	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		10-12"CN	E						
12	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		10-12"CN	E						
12	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E						
13	BICEP II MAGNUM	5.5 L		1.65 lb ai/a		1.2 qt/a		PRE	A		99 a	99 a	99 a	99 a	
13	CALLISTO	4 SC		0.094 lb ai/a		3 fl oz/a		10-12"CN	E						
13	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		10-12"CN	E						
13	PRIME OIL COC	100 LIQ		1.0 % v/v		1 % v/v		10-12"CN	E						
13	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E						
14	BICEP II MAGNUM	5.5 L		1.65 lb ai/a		1.2 qt/a		PRE	A		99 a	99 a	99 a	99 a	
14	LAUDIS	3.5 SC		0.082 lb ai/a		3 fl oz/a		10-12"CN	E						
14	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		10-12"CN	E						
14	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		10-12"CN	E						
14	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E						
LSD (P=.05)											0.0	0.0	0.0	0.0	0.0
Replicate F											0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)											1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F											0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)											1.0000	1.0000	1.0000	1.0000	1.0000

Means followed by same letter do not significantly differ (P=.05, LSD)

Total Postemergence and Sequential Programs in Corn.

Project Code: 07-51W-N70 Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
Crop Code	Control	Control	Control	Control	Control
Rating Data Type	Percent	Percent	Percent	Percent	Percent
Rating Unit	6-12-07	6-18-07	6-25-07	7-9-07	8-6-07
Rating Date	-2 DA-D	7 DA-C	14 DA-C	28 DA-C	56 DA-C
Trt-Eval Interval					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code					
1	NONTREATED									0 f	0 c	0 c	0 d	0 c
2	GUARDSMAN MAX	5 L		1.56 lb ai/a		2.5 pt/a		PRE	A	88 cd	97 a	96 a	95 bc	98 a
2	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		10-12"CN	E					
2	N-PAK AMS	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E					
3	GUARDSMAN MAX	5 L		1.56 lb ai/a		2.5 pt/a		PRE	A	89 bc	96 ab	98 a	95 bc	98 a
3	STATUS	56 WG		0.0875 lb ai/a		2.5 oz/a		10-12"CN	E					
3	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		10-12"CN	E					
3	N-PAK AMS	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E					
4	SURESTART	4.25 SE		0.93 lb ai/a		1.75 pt/a		PRE	A	93 b	93 b	99 a	99 a	99 a
4	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		2-4"W	D					
4	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		2-4"W	D					
5	KEYSTONE	5.25 L		1.97 lb ai/a		1.5 qt/a		PRE	A	88 cd	93 b	98 a	95 bc	99 a
5	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		2-4"W	D					
5	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		2-4"W	D					
6	HORNET	68.5 WG		0.086 lb ai/a		2 oz/a		PRE	A	92 bc	98 a	96 a	99 a	98 a
6	AATREX	90 WG		1.0 lb ai/a		1.11 lb/a		PRE	A					
6	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		2-4"W	D					
6	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		2-4"W	D					
7	PYTHON	80 WG		0.031 lb ai/a		0.62 oz/a		PRE	A	93 b	99 a	98 a	98 ab	99 a
7	AATREX	90 WG		0.75 lb ai/a		0.83 lb/a		PRE	A					
7	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		2-4"W	D					
7	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		2-4"W	D					
8	SURESTART	4.25 SE		0.93 lb ai/a		1.75 pt/a		1-2"W	B	99 a	93 b	91 b	92 c	99 a
8	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		1-2"W	B					
8	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		1-2"W	B					
9	IMPACT	2.8 SC		0.0164 lb ai/a		0.75 fl oz/a		3-5"W	C		99 a	98 a	99 a	91 b
9	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		3-5"W	C					
9	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		3-5"W	C					
9	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		3-5"W	C					
10	CALLISTO	4 SC		0.094 lb ai/a		3 fl oz/a		3-5"W	C		99 a	99 a	99 a	96 ab
10	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		3-5"W	C					
10	PRIME OIL COC	100 LIQ		1.0 % v/v		1 % v/v		3-5"W	C					
10	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		3-5"W	C					
11	LAUDIS	3.5 SC		0.082 lb ai/a		3 fl oz/a		3-5"W	C		99 a	99 a	99 a	99 a
11	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		3-5"W	C					
11	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		3-5"W	C					
11	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		3-5"W	C					
12	BICEP II MAGNUM	5.5 L		1.65 lb ai/a		1.2 qt/a		PRE	A	88 cd	99 a	98 a	98 ab	95 ab
12	IMPACT	2.8 SC		0.0164 lb ai/a		0.75 fl oz/a		10-12"CN	E					
12	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		10-12"CN	E					
12	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		10-12"CN	E					
12	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E					
13	BICEP II MAGNUM	5.5 L		1.65 lb ai/a		1.2 qt/a		PRE	A	85 de	99 a	99 a	99 a	99 a
13	CALLISTO	4 SC		0.094 lb ai/a		3 fl oz/a		10-12"CN	E					
13	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		10-12"CN	E					
13	PRIME OIL COC	100 LIQ		1.0 % v/v		1 % v/v		10-12"CN	E					
13	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E					
14	BICEP II MAGNUM	5.5 L		1.65 lb ai/a		1.2 qt/a		PRE	A	83 e	99 a	98 a	98 ab	96 ab
14	LAUDIS	3.5 SC		0.082 lb ai/a		3 fl oz/a		10-12"CN	E					
14	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		10-12"CN	E					
14	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		10-12"CN	E					
14	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E					
LSD (P=.05)										4.2	3.5	4.1	4.2	5.5
Replicate F										8.990	0.693	0.680	0.501	0.000
Replicate Prob(F)										0.0016	0.5091	0.5156	0.6116	1.0000
Treatment F										370.612	479.144	345.931	322.391	188.874
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

Total Postemergence and Sequential Programs in Corn.

Project Code: 07-51W-N70 Location: Belleville Research Center  
 Investigator: Bryan Young

Weed Code	CYPES	CYPES	CYPES	CYPES	CYPES
Crop Code	Control	Control	Control	Control	Control
Rating Data Type	Percent	Percent	Percent	Percent	Percent
Rating Unit	6-12-07	6-18-07	6-25-07	7-9-07	8-6-07
Rating Date	-2 DA-D	7 DA-C	14 DA-C	28 DA-C	56 DA-C
Trt-Eval Interval					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code					
1	NONTREATED									0 e	0 g	0 g	0 c	0 d
2	GUARDSMAN MAX	5 L		1.56 lb ai/a		2.5 pt/a		PRE	A	83 ab	92 ab	94 a	92 a	93 a
2	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		10-12"CN	E					
2	N-PAK AMS	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E					
3	GUARDSMAN MAX	5 L		1.56 lb ai/a		2.5 pt/a		PRE	A	83 ab	90 ab	90 ab	93 a	92 a
3	STATUS	56 WG		0.0875 lb ai/a		2.5 oz/a		10-12"CN	E					
3	ROUNDUP W-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		10-12"CN	E					
3	N-PAK AMS	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E					
4	SURESTART	4.25 SE		0.93 lb ai/a		1.75 pt/a		PRE	A	67 c	73 cd	91 ab	91 a	92 a
4	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		2-4"W	D					
4	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		2-4"W	D					
5	KEYSTONE	5.25 L		1.97 lb ai/a		1.5 qt/a		PRE	A	86 a	88 ab	92 ab	93 a	92 a
5	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		2-4"W	D					
5	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		2-4"W	D					
6	HORNET	68.5 WG		0.086 lb ai/a		2 oz/a		PRE	A	23 d	70 d	82 bcd	93 a	92 a
6	AATREX	90 WG		1.0 lb ai/a		1.11 lb/a		PRE	A					
6	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		2-4"W	D					
6	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		2-4"W	D					
7	PYTHON	80 WG		0.031 lb ai/a		0.62 oz/a		PRE	A	20 d	87 b	87 abc	93 a	88 a
7	AATREX	90 WG		0.75 lb ai/a		0.83 lb/a		PRE	A					
7	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		2-4"W	D					
7	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		2-4"W	D					
8	SURESTART	4.25 SE		0.93 lb ai/a		1.75 pt/a		1-2"W	B	86 a	62 e	73 de	60 b	40 c
8	DURANGO	4 SL		0.75 lb ae/a		24 fl oz/a		1-2"W	B					
8	N-PAK AMS	100 LIQ		5.0 % v/v		5 % v/v		1-2"W	B					
9	IMPACT	2.8 SC		0.0164 lb ai/a		0.75 fl oz/a		3-5"W	C		53 f	65 e	15 c	0 d
9	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		3-5"W	C					
9	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		3-5"W	C					
9	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		3-5"W	C					
10	CALLISTO	4 SC		0.094 lb ai/a		3 fl oz/a		3-5"W	C		68 de	75 cde	82 a	60 b
10	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		3-5"W	C					
10	PRIME OIL COC	100 LIQ		1.0 % v/v		1 % v/v		3-5"W	C					
10	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		3-5"W	C					
11	LAUDIS	3.5 SC		0.082 lb ai/a		3 fl oz/a		3-5"W	C		53 f	25 f	13 c	13 d
11	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		3-5"W	C					
11	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		3-5"W	C					
11	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		3-5"W	C					
12	BICEP II MAGNUM	5.5 L		1.65 lb ai/a		1.2 qt/a		PRE	A	72 bc	78 c	72 de	53 b	70 b
12	IMPACT	2.8 SC		0.0164 lb ai/a		0.75 fl oz/a		10-12"CN	E					
12	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		10-12"CN	E					
12	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		10-12"CN	E					
12	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E					
13	BICEP II MAGNUM	5.5 L		1.65 lb ai/a		1.2 qt/a		PRE	A	73 abc	95 a	93 ab	93 a	92 a
13	CALLISTO	4 SC		0.094 lb ai/a		3 fl oz/a		10-12"CN	E					
13	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		10-12"CN	E					
13	PRIME OIL COC	100 LIQ		1.0 % v/v		1 % v/v		10-12"CN	E					
13	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E					
14	BICEP II MAGNUM	5.5 L		1.65 lb ai/a		1.2 qt/a		PRE	A	73 abc	89 ab	86 abc	83 a	86 a
14	LAUDIS	3.5 SC		0.082 lb ai/a		3 fl oz/a		10-12"CN	E					
14	AATREX	90 WG		0.5 lb ai/a		8.9 oz/a		10-12"CN	E					
14	DESTINY MSO	100 LIQ		1.0 % v/v		1 % v/v		10-12"CN	E					
14	28% UAN	100 LIQ		2.5 % v/v		2.5 % v/v		10-12"CN	E					
LSD (P=.05)										13.7	7.8	11.8	17.4	15.0
Replicate F										5.158	9.030	8.025	2.037	1.035
Replicate Prob(F)										0.0156	0.0011	0.0019	0.1507	0.3693
Treatment F										44.143	85.637	46.499	32.902	49.577
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

Total Postemergence and Sequential Programs in Corn.

Project Code: 07-51W-N70      Location: Belleville Research Center  
Investigator: Bryan Young

Trial Comments

1. Protocol: Dow, AMVAC, BASF.
2. Ratings: CI/WC prior to "D" and at 14, 28 + 56 da "C"; rate CI and rate overall weed burndown at 7 da "C"+"E" treatments.
3. Yield.
4. Ratings on 6-12-07 at -2 DA-D were prior applications D and E, 1 day after C (treatments not rated), 10 days after B, and 20 days after A.  
Ratings labeled 6-18-07 at 7 DA-C were also evaluated on 6-19-07 at 7 DA-E and 5 DA-D (combined to a single column).  
Ratings on 6-25-07 at 14 DA-C were also 11, 13, and 23 days after D, E, and B, respectively.  
Ratings on 7-9-07 at 28 DA-C were also 25, 27, and 37 days after D, E, and B, respectively.  
Ratings on 8-6-07 at 56 DA-C were also 53, 55, and 65 days after D, E, and B, respectively.
5. Harvested 10-5-07, (2) 30 inch rows by 24 ft.