

## SOIL INFORMATION

## TRIAL INFORMATION

TEXTURE: SIL  
PH: 6.7  
%OM: 1.5  
PREV. CROP: GLXMA - SOYBEAN  
%RESIDUE: 0  
PLOT WIDTH: 7.5 X 32 FEET

DESIGN: RCB  
REPS: 3

APPL. NUMBER	01	02	03	UNIT
TIMINGS	09	10	11	
TYPE	LIQMIX	LIQMIX	LIQMIX	
APPLICATION DATE	06/05/03	06/19/03	07/01/03	AME
AIR TEMPERATURE	75	70	82	F
% REL. HUMIDITY	55	72	77	
WIND DIRECTION	NORTH	NORTH	SOUTH	
WIND SPEED	6.0	9.0	3.0	M/H
CLOUD COVER	CLEAR	CLOUDY	CLEAR	
DEW	NO	NO	NO	
SOIL MOISTURE	DRY/MOIST	DRY/MOIST	DRY/MOIST	
SOIL CONDITION	---	---	---	
METHOD	SPRAY	SPRAY	SPRAY	
EQUIPMENT	SPRBAC	SPRBAC	SPRBAC	
PROPELLANT	COMCO2	COMCO2	COMCO2	
PLACEMENT	BRFOSO	BRFOSO	BRFOSO	
NOZZLE	FLATFAN	FLATFAN	FLATFAN	
NOZZLE NUMBER	5	5	5	
NOZZLE SPACING	18.000	18.000	18.000	IN
SWATH WIDTH	7.5	7.5	7.5	FT
SPRAY VOLUME	20.00	20.00	20.00	
VOLUME UNIT	GPA	GPA	GPA	
PRESSURE	30.00	30.00	30.00	PSI
DILUENT	WATER	WATER	WATER	
INC. DATE				AME
INC. START				24H
INC. END				24H
INC. DEPTH				IN
INC. EQUIPMENT	---	---	---	
DEN/ STG/ MINMAXSZ				
*** CROP ***				
CORN, DENT		---/12	---/15	
NK 32K61		4.00/4.00	12.0/12.0	IN
06/05/2003				
*** PEST ***				
WATERHEMP, COMMO		---/12	---/16	
		1.00/1.00	2.00/4.00	IN
RAGWEED, COMMON		---/11	---/14	
		1.00/1.00	2.00/4.00	IN
SMARTWEED, PENNS		---/15	---/19	
		1.00/3.00	3.00/6.00	IN
FOXTAIL, GIANT		---/11	---/12	
		1.00/1.00	2.00/4.00	IN
COCKLEBUR, COMMO		---/11	---/14	
		1.00/2.00	3.00/6.00	IN

## \* TIMING CODES

09 = ----- / PREEMERGENCE  
10 = ----- / VEPOST  
11 = ----- / EPOST

## \* STAGE CODE

11 = FIRST LEAF UNFOLDED  
12 = 2 LEAVES UNFOLDED  
14 = 4TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED  
15 = 5TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED  
16 = 6TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED  
19 = >8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED

**TITLE:** Sequential weed control systems in conventional corn C4S  
**CREATED:** 05/22/2003 **REVISED:** 12/15/2003 **COMPLETED:** N  
**PROJECT TYPE:** HERBICIDE  
**LOCATION:** BTOWN C4S **RESEARCHED BY:** UNIV. OF ILL  
**DESIGN:** RANDOMIZED COMPLETE BLOCK DESIGN  
**PLOT SIZE:** 7.50 FT WIDE X 32.00 FT LONG **REPS:** 03

TRT NUM	TREATMENT COMPONENT	DOSAGE		TM	ZEAMD	SETFA	XANST	POLPY	AMBEL	AMATA
		RATE	UNIT		CON % 07/03/03	CON % 07/03/03	CON % 07/03/03	CON % 07/03/03	CON % 07/03/03	CON % 07/03/03
1A	DUAL II MAGNUM	1.59	LAA	9	0	98	50	90	50	95
2A	DUAL II MAGNUM	1.59	LAA	9	0	92	57	95	88	96
	B>CALLISTO 4SC	0.094	LAA	11						
	C>COC	1.00	PMV	11						
	D 28% UAN	2.50	PMV	11						
3A	DUAL II MAGNUM	1.59	LAA	9	0	98	63	94	75	99
	B>CALLISTO 4SC	0.094	LAA	11						
	C ATRAZINE DF	0.25	LAA	11						
	D>COC	1.00	PMV	11						
	E 28% UAN	2.50	PMV	11						
4A	DUAL II MAGNUM	1.59	LAA	9	0	97	57	97	83	98
	B>CALLISTO 4SC	0.094	LAA	11						
	C ATRAZINE DF	1.00	LAA	11						
	D>COC	1.00	PMV	11						
	E 28% UAN	2.50	PMV	11						
5A	DUAL II MAGNUM	1.59	LAA	9	0	97	75	97	83	99
	B>CALLISTO 4SC	0.094	LAA	11						
	C BUCTRIL 2EC	0.047	LAA	11						
	D>COC	1.00	PMV	11						
	E 28% UAN	2.50	PMV	11						
6A	DUAL II MAGNUM	1.59	LAA	9	0	98	83	93	88	99
	B>CALLISTO 4SC	0.094	LAA	11						
	C BUCTRIL 2EC	0.094	LAA	11						
	D>COC	1.00	PMV	11						
	E 28% UAN	2.50	PMV	11						
7A	CHECK	0.00	NA	0	0	0	0	0	0	0
8A	DUAL II MAGNUM	1.59	LAA	9	0	98	60	98	73	98
	B>CALLISTO 4SC	0.094	LAA	11						
	C SENCOR 75WG	0.141	LAA	11						
	D>ACTIVATOR 90	0.25	PMV	11						
	E 28% UAN	2.50	PMV	11						
9A	BICEP II MAGNU	3.30	LAA	9	0	98	75	99	98	99
	B>CALLISTO 4SC	0.094	LAA	11						
	C>COC	1.00	PMV	11						
	D 28% UAN	2.50	PMV	11						
10A	BICEP II MAGNU	3.30	LAA	9	0	97	73	98	98	99
	B>CALLISTO 4SC	0.094	LAA	11						
	C ATRAZINE DF	1.00	LAA	11						
	D 28% UAN	2.50	PMV	11						
	E>COC	1.00	PMV	11						
11A	DUAL II MAGNUM	1.59	LAA	9	0	97	73	86	72	96
	B>SPIRIT 57WG	0.036	LAA	11						
	C ATRAZINE DF	1.00	LAA	11						
	D>COC	1.00	PMV	11						
	E 28% UAN	2.50	PMV	11						
12A	DUAL II MAGNUM	1.59	LAA	11	0	99	60	93	85	93
	B>NORTHSTAR 47.4	0.148	LAA	11						
	C>ACTIVATOR 90	0.25	PMV	11						
	D 28% UAN	2.50	PMV	11						
13A	BICEP II MAGNU	3.30	LAA	9	0	99	98	99	97	99
14A	KEYSTONE 5.25L	3.28	LAA	9	0	97	93	98	98	99
	B>HORNET 68.5WG	0.128	LAA	11						
	C>ACTIVATOR 90	0.25	PMV	11						
	D 28% UAN	2.50	PMV	11						

## TITLE: Sequential weed control systems in conventional corn C4S

TRT NUM	TREATMENT COMPONENT	DOSAGE			ZEAMD	SETFA	XANST	POLPY	AMBEL	AMATA
		RATE	UNIT	TM	CON % 07/03/03	CON % 07/03/03	CON % 07/03/03	CON % 07/03/03	CON % 07/03/03	CON % 07/03/03
15A	OUTLOOK 6EC	0.98	LAA	9	0	97	70	95	93	99
	B>>DISTINCT 70WG	0.175	LAA	11						
	C ATRAZINE DF	1.00	LAA	11						
	D>>ACTIVATOR 90	0.25	PMV	11						
	E 28% UAN	2.50	PMV	11						
16A	OUTLOOK 6EC	0.98	LAA	9	0	99	99	99	99	99
	B MARKSMAN SC	1.40	LAA	10						
	C>>LIQUID AMS	3.67	PMV	10						
17A	DEGREE 3.8SC	1.97	LAA	9	0	94	62	96	82	99
	B>>YUKON 67.5WG	0.169	LAA	11						
	C>>ACTIVATOR 90	0.25	PMV	11						
	D 28% UAN	2.50	PMV	11						
18A	HARNESS (7EC)	1.97	LAA	9	0	96	67	98	83	98
	B>>YUKON 67.5WG	0.169	LAA	11						
	C>>ACTIVATOR 90	0.25	PMV	11						
	D 28% UAN	2.50	PMV	11						
19A	DEFINE 60DF	0.375	LAA	9	0	96	73	95	80	96
	B>>OPTION 35WDG	0.033	LAA	11						
	C>>DISTINCT 70WG	0.088	LAA	11						
	D>>MSO	1.00	PMV	11						
	E 28% UAN	2.50	PMV	11						
20A	DEFINE 60DF	0.68	LAA	9	8	95	80	93	88	98
	B BUCTRIL+ATRA	0.75	LAA	11						
	C>>COC	1.00	PMV	11						
21A	BALANCE PRO 4S	0.07	LAA	9	0	91	82	98	98	99
	B>>EQUIP 62WG	0.058	LAA	11						
	C>>MSO	1.00	PMV	11						
	D 28% UAN	2.50	PMV	11						
22A	ATRAZINE DF	1.50	LAA	9	0	80	97	98	98	96
	B>>OPTION 35WDG	0.033	LAA	11						
	C>>DISTINCT 70WG	0.175	LAA	11						
	D>>MSO	1.00	PMV	11						
	E 28% UAN	2.50	PMV	11						
23A	GUARDS MAX 5L	2.50	LAA	9	0	98	92	97	95	98
	B>>DISTINCT 70WG	0.175	LAA	11						
	C>>ACTIVATOR 90	0.25	PMV	11						
	D 28% UAN	2.50	PMV	11						
24A	GUARDS MAX 5L	2.50	LAA	9	0	98	99	99	99	99
	B MARKSMAN SC	1.20	LAA	10						
	C>>LIQUID AMS	3.67	PMV	10						
	LSD (0.05)				1.00	4.48	12.00	7.29	10.21	3.00
	STANDARD DEVIATION				0.481	2.24	6.00	3.64	5.11	1.50

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**DESIGN:** RANDOMIZED COMPLETE BLOCK DESIGN  
**PLOT SIZE:** 7.50 FT WIDE X 32.00 FT LONG **REPS:** 03

TRT NUM	TREATMENT COMPONENT	DOSAGE		TM	ZEAMD	SETFA	XANST	POLPY	AMBEL	AMATA
		RATE	UNIT		CON % 07/21/03	CON % 07/21/03	CON % 07/21/03	CON % 07/21/03	CON % 07/21/03	CON % 07/21/03
1A	DUAL II MAGNUM	1.59	LAA	9	0	88	43	82	0	92
2A	DUAL II MAGNUM	1.59	LAA	9	0	96	99	99	99	99
	B>CALLISTO 4SC	0.094	LAA	11						
	C>COC	1.00	PMV	11						
	D 28% UAN	2.50	PMV	11						
3A	DUAL II MAGNUM	1.59	LAA	9	0	97	99	99	99	99
	B>CALLISTO 4SC	0.094	LAA	11						
	C ATRAZINE DF	0.25	LAA	11						
	D>COC	1.00	PMV	11						
	E 28% UAN	2.50	PMV	11						
4A	DUAL II MAGNUM	1.59	LAA	9	0	98	99	99	99	99
	B>CALLISTO 4SC	0.094	LAA	11						
	C ATRAZINE DF	1.00	LAA	11						
	D>COC	1.00	PMV	11						
	E 28% UAN	2.50	PMV	11						
5A	DUAL II MAGNUM	1.59	LAA	9	0	94	99	99	99	99
	B>CALLISTO 4SC	0.094	LAA	11						
	C BUCTRIL 2EC	0.047	LAA	11						
	D>COC	1.00	PMV	11						
	E 28% UAN	2.50	PMV	11						
6A	DUAL II MAGNUM	1.59	LAA	9	0	92	99	99	99	98
	B>CALLISTO 4SC	0.094	LAA	11						
	C BUCTRIL 2EC	0.094	LAA	11						
	D>COC	1.00	PMV	11						
	E 28% UAN	2.50	PMV	11						
7A	CHECK	0.00	NA	0	0	0	0	0	0	0
8A	DUAL II MAGNUM	1.59	LAA	9	0	97	99	99	99	99
	B>CALLISTO 4SC	0.094	LAA	11						
	C SENCOR 75WG	0.141	LAA	11						
	D>ACTIVATOR 90	0.25	PMV	11						
	E 28% UAN	2.50	PMV	11						
9A	BICEP II MAGNU	3.30	LAA	9	0	96	94	99	96	99
	B>CALLISTO 4SC	0.094	LAA	11						
	C>COC	1.00	PMV	11						
	D 28% UAN	2.50	PMV	11						
10A	BICEP II MAGNU	3.30	LAA	9	0	95	99	99	99	99
	B>CALLISTO 4SC	0.094	LAA	11						
	C ATRAZINE DF	1.00	LAA	11						
	D 28% UAN	2.50	PMV	11						
	E>COC	1.00	PMV	11						
11A	DUAL II MAGNUM	1.59	LAA	9	0	99	99	99	99	99
	B>SPIRIT 57WG	0.036	LAA	11						
	C ATRAZINE DF	1.00	LAA	11						
	D>COC	1.00	PMV	11						
	E 28% UAN	2.50	PMV	11						
12A	DUAL II MAGNUM	1.59	LAA	11	0	97	99	99	90	80
	B>NORTHSTAR 47.4	0.148	LAA	11						
	C>ACTIVATOR 90	0.25	PMV	11						
	D 28% UAN	2.50	PMV	11						
13A	BICEP II MAGNU	3.30	LAA	9	0	98	99	99	90	99
14A	KEYSTONE 5.25L	3.28	LAA	9	0	93	99	99	99	99
	B>HORNET 68.5WG	0.128	LAA	11						
	C>ACTIVATOR 90	0.25	PMV	11						
	D 28% UAN	2.50	PMV	11						

TITLE: Sequential weed control systems in conventional corn C4S

TRT NUM	TREATMENT COMPONENT	DOSAGE RATE	UNIT	TM	ZEAMD CON % 07/21/03	SETFA CON % 07/21/03	XANST CON % 07/21/03	POLPY CON % 07/21/03	AMBEL CON % 07/21/03	AMATA CON % 07/21/03
15A	OUTLOOK 6EC	0.98	LAA	9	0	92	98	99	99	99
	B>>DISTINCT 70WG	0.175	LAA	11						
	C ATRAZINE DF	1.00	LAA	11						
	D>>ACTIVATOR 90	0.25	PMV	11						
	E 28% UAN	2.50	PMV	11						
16A	OUTLOOK 6EC	0.98	LAA	9	0	88	99	99	99	99
	B MARKSMAN SC	1.40	LAA	10						
	C>>LIQUID AMS	3.67	PMV	10						
17A	DEGREE 3.8SC	1.97	LAA	9	0	77	99	99	98	99
	B>>YUKON 67.5WG	0.169	LAA	11						
	C>>ACTIVATOR 90	0.25	PMV	11						
	D 28% UAN	2.50	PMV	11						
18A	HARNESS (7EC)	1.97	LAA	9	0	83	99	99	99	99
	B>>YUKON 67.5WG	0.169	LAA	11						
	C>>ACTIVATOR 90	0.25	PMV	11						
	D 28% UAN	2.50	PMV	11						
19A	DEFINE 60DF	0.375	LAA	9	0	99	98	99	99	99
	B>>OPTION 35WDG	0.033	LAA	11						
	C>>DISTINCT 70WG	0.088	LAA	11						
	D>>MSO	1.00	PMV	11						
	E 28% UAN	2.50	PMV	11						
20A	DEFINE 60DF	0.68	LAA	9	0	99	99	99	99	98
	B BUCTRIL+ATRA	0.75	LAA	11						
	C>>COC	1.00	PMV	11						
21A	BALANCE PRO 4S	0.07	LAA	9	0	99	99	99	99	98
	B>>EQUIP 62WG	0.058	LAA	11						
	C>>MSO	1.00	PMV	11						
	D 28% UAN	2.50	PMV	11						
22A	ATRAZINE DF	1.50	LAA	9	0	98	99	99	99	98
	B>>OPTION 35WDG	0.033	LAA	11						
	C>>DISTINCT 70WG	0.175	LAA	11						
	D>>MSO	1.00	PMV	11						
	E 28% UAN	2.50	PMV	11						
23A	GUARDS MAX 5L	2.50	LAA	9	0	95	99	99	99	99
	B>>DISTINCT 70WG	0.175	LAA	11						
	C>>ACTIVATOR 90	0.25	PMV	11						
	D 28% UAN	2.50	PMV	11						
24A	GUARDS MAX 5L	2.50	LAA	9	0	91	99	99	99	99
	B MARKSMAN SC	1.20	LAA	10						
	C>>LIQUID AMS	3.67	PMV	10						
		LSD (0.05)			0.00	9.51	4.85	3.47	3.36	1.69
		STANDARD DEVIATION			0.00	4.76	2.42	1.73	1.68	0.845

>> = SUPPLEMENTAL CHEMICAL

\* TIMING CODES

- 00 = ----- / UNTREATED TIMING
- 09 = ----- / PREEMERGENCE 06/05/2003(1)
- 10 = ----- / VEPOST 06/19/2003(2)
- 11 = ----- / EPOST 07/01/2003(3)

H#	CUSTOM#1	CUSTOM#2	EV. DATE	S#	TYP	SPECIE	STAGE	RAW	PRT	SYM	MTH	CNF	BASIS	C.M	CTRTRT	SS	NOTE
001	ZEAMD	CON %	07/03/2003	01	P	ZEAMD		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
002	SETFA	CON %	07/03/2003	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
003	XANST	CON %	07/03/2003	03	P	XANST		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
004	POLPY	CON %	07/03/2003	04	P	POLPY		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
005	AMBEL	CON %	07/03/2003	05	P	AMBEL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
006	AMATA	CON %	07/03/2003	06	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
007	ZEAMD	CON %	07/21/2003	01	P	ZEAMD		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
008	SETFA	CON %	07/21/2003	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N

TITLE: Sequential weed control systems in conventional corn C4S

H#	CUSTOM#1	CUSTOM#2	EV.DATE	S#	TYP	SPECIE	STAGE	RAW	PRT	SYM	MTH	CNF	BASIS	C.M	CTR1	SS	NOTE
009	XANST	CON %	07/21/2003	03	P	XANST		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
010	POLPY	CON %	07/21/2003	04	P	POLPY		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
011	AMBEL	CON %	07/21/2003	05	P	AMBEL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
012	AMATA	CON %	07/21/2003	06	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N

\* SPECIES COMMON NAME - CULTIVAR (IF APPLICABLE)

01 = NK 32K61