

## SOIL INFORMATION

## TRIAL INFORMATION

TEXTURE: SIX  
PH: 6.0  
%OM: 6.0  
PREV. CROP: GLXMA - SOYBEAN  
%RESIDUE:  
PLOT WIDTH: 7.5 X 29 FEET

DESIGN: RCB  
REPS: 3

APPL. NUMBER	01	02	03	04	UNIT
TIMINGS	09	10	11	12	
TYPE	LIQMXSPR	LIQMXSPR	LIQMXSPR	LIQMXSPR	
APPLICATION DATE	05/04/99	05/26/99	06/10/99	06/15/99	AME
AIR TEMPERATURE	80	65	83	65	F
% REL. HUMIDITY	36	40	68	57	
WIND DIRECTION	SOUTHEAST	WEST	SOUTH	NORTHEAST	
WIND SPEED	8.0	3.0	7.0	8.0	M/H
CLOUD COVER	PARTCLDY	PARTCLDY	CLOUDY	PARTCLDY	
DEW	---	NO	NO	NO	
SOIL MOISTURE	DRY/MOIST	MOIST/MOI	DRY/MOIST	MOIST/MOI	
SOIL CONDITION	---	---	---	---	
METHOD	SPRAY	SPRAY	SPRAY	SPRAY	
EQUIPMENT	SPRBAC	SPRBAC	SPRBAC	SPRBAC	
PROPELLANT	COMPRSCO2	COMPRSCO2	COMPRSCO2	COMPRSCO2	
PLACEMENT	BROADCAST	BROADCAST	BROADCAST	BROADCAST	
NOZZLE	FLATFAN	FLATFAN	FLATFAN	FLATFAN	
NOZZLE NUMBER	5	5	5	5	
NOZZLE SPACING	18.000	18.000	18.000	18.000	IN
SWATH WIDTH	7.5	7.5	7.5	7.5	FT
SPRAY VOLUME	20.00	20.00	20.00	20.00	
VOLUME UNIT	GPA	GPA	GPA	GPA	
PRESSURE	30.00	30.00	30.00	30.00	PSI
DILUENT	WATER	WATER	WATER	WATER	
INC. DATE					AME
INC. START					24H
INC. END					24H
INC. DEPTH					IN
INC. EQUIPMENT					
DENSITY /					
*** CROP ***					
CORN, DENT		---/11	---/12	---/13	
PIONEER 34G81		2.00/3.00	4.00/6.00	6.00/8.00	IN
05/03/1999					
*** PEST ***					
VELVETLEAF		---/10	---/12	---/13	
		0.50/0.50	1.00/2.00	2.00/3.00	IN
LAMBSQUARTERS, C		---/12	---/14	---/16	
		0.50/0.50	1.00/1.00	1.00/2.00	IN
FOXTAIL, GIANT		---/11	---/13	---/14	
		0.50/0.50	1.00/2.00	2.00/3.00	IN

## \* TIMING CODES

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

## \* STAGE CODE

10 = 1ST LEAF EMERGED; COTYLEDONS UNFOLDED  
11 = FIRST LEAF UNFOLDED  
12 = 2ND TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED  
13 = 3 LEAVES UNFOLDED  
14 = 4TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED  
16 = 6TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED

**TITLE:** TWO-PASS WEED CONTROL SYSTEMS IN CORN SW-1500  
**CREATED:** 04/21/1999 **REVISED:** 09/10/1999 **COMPLETED:** N  
**PROJECT TYPE:** HERBICIDE  
**LOCATION:** DEKALB **RESEARCHED BY:** UNIV. OF ILL  
**DESIGN:** RANDOMIZED COMPLETE BLOCK DESIGN  
**PLOT SIZE:** 7.50 FT WIDE X 29.00 FT LONG **REPS:** 03

TRT NUM	TREATMENT COMPONENT	DOSAGE		TM	ZEAMD	SETFA	CHEAL	ABUTH	ZEAMD	SETFA
		RATE	UNIT		CON % 07/01/99	CON % 07/01/99	CON % 07/01/99	CON % 07/01/99	CON % 07/21/99	CON % 07/21/99
1A	FRONTIER 6.0EC	1.50	LAA	9	0	98	99	98	0	95
B	MARKSMAN SC	1.40	LAA	11						
C	28% UAN	2.50	PMV	11						
2A	DUAL II MAGNUM	1.52	LAA	9	0	96	93	90	0	90
B	NORTHSTAR 47.4	0.148	LAA	12						
C	ACTIVATE PLUS	0.25	PMV	12						
D	28% UAN	2.50	PMV	12						
3A	FRONTIER 6.0EC	1.50	LAA	9	0	96	99	95	0	94
B	CLARITY	0.50	LAA	11						
C	28% UAN	2.50	PMV	11						
4A	DUAL II MAGNUM	1.52	LAA	9	0	95	95	93	0	88
B	SPIRIT 57WG	0.036	LAA	12						
C	ACTIVATE PLUS	0.25	PMV	12						
D	28% UAN	2.50	PMV	12						
5A	FRONTIER X2 6E	0.84	LAA	9	0	99	99	96	0	95
B	DISTINCT 70WG	0.263	LAA	12						
C	ACTIVATE PLUS	0.25	PMV	12						
D	28% UAN	1.25	PMV	12						
6A	FRONTIER X2 6E	0.984	LAA	9	0	99	99	95	0	99
B	DISTINCT 70WG	0.263	LAA	11						
C	ACTIVATE PLUS	0.25	PMV	11						
D	28% UAN	2.50	PMV	11						
7A	FRONTIER X2 6E	0.84	LAA	9	0	99	99	95	0	99
B	MARKSMAN SC	1.40	LAA	10						
C	28% UAN	2.50	PMV	10						
8A	TOPNOTCH (3.2C	2.00	LAA	9	0	99	99	93	0	99
B	HORNET 85.6WG	0.128	LAA	12						
C	ACTIVATE PLUS	0.25	PMV	12						
9A	FRONTIER 6.0EC	1.50	LAA	9	0	98	99	96	0	89
B	LADDOK SP-12 (	1.04	LAA	12						
C	28% UAN	2.50	PMV	12						
10A	FRONTIER 6.0EC	0.94	LAA	9	0	99	99	96	0	92
B	ACCENT 75WG	0.031	LAA	12						
C	DISTINCT 70WG	0.175	LAA	12						
D	ACTIVATE PLUS	0.25	PMV	12						
E	28% UAN	2.50	PMV	12						
11A	DUAL II MAGNUM	1.52	LAA	9	0	88	91	83	0	73
B	BUCTRIL 2EC	0.375	LAA	12						
12A	FRONTIER 6.0EC	0.94	LAA	9	0	98	94	82	0	92
B	ACCENT 75WG	0.031	LAA	12						
C	BAS 183 70WG	0.263	LAA	12						
D	ACTIVATE PLUS	0.25	PMV	12						
E	28% UAN	2.50	PMV	12						
13A	OPTILL 6L	1.57	LAA	9	0	99	99	99	0	94
B	MARKSMAN SC	1.40	LAA	11						
C	28% UAN	2.50	PMV	11						
14A	CHECK	0.00	NA	0	0	0	0	0	0	0
15A	AXIOM	0.81	LAA	9	0	92	99	99	0	88
B	HORNET 85.6WG	0.128	LAA	12						
C	28% UAN	2.50	PMV	12						
D	ACTIVATE PLUS	0.25	PMV	12						
16A	AXIOM	0.72	LAA	9	0	78	95	80	0	92
B	ATRAZINE DF	1.35	LAA	12						
C	COC	1.00	PMV	12						

## TITLE: TWO-PASS WEED CONTROL SYSTEMS IN CORN SW-1500

TRT NUM	TREATMENT COMPONENT	DOSAGE		TM	ZEAMD CON % 07/01/99	SETFA CON % 07/01/99	CHEAL CON % 07/01/99	ABUTH CON % 07/01/99	ZEAMD CON % 07/21/99	SETFA CON % 07/21/99
		RATE	UNIT							
17A	TOPNOTCH (3.2C	2.00	LAA	9	0	99	99	99	0	92
	B»HORNET 85.6WG	0.128	LAA	11						
	C AATREX 4L	0.75	LAA	11						
	D»COC	1.00	PMV	11						
	E 28% UAN	2.50	PMV	11						
18A»	FULTIME 4SC	3.30	LAA	9	0	98	99	99	0	96
	B»HORNET 85.6WG	0.128	LAA	11						
	C»COC	1.00	PMV	11						
	D 28% UAN	2.50	PMV	11						
19A»	FULTIME 4SC	3.30	LAA	9	0	99	99	96	0	93
	B»SCORPIAN III	0.21	LAA	12						
	C»ACTIVATE PLUS	0.25	PMV	12						
	D 28% UAN	2.50	PMV	12						
20A»	FULTIME 4SC	3.30	LAA	9	0	96	99	93	0	93
	B»SCORPIAN III	0.21	LAA	13						
	C»COC	1.00	PMV	13						
	D 28% UAN	2.50	PMV	13						
21A»	LEADOFF	0.94	LAA	9	0	98	99	87	0	92
	B»BASIS GOLD 90D	0.78	LAA	11						
	C»COC	1.00	PMV	11						
	D 28% UAN	2.50	PMV	11						
		LSD (0.05)			0.00	5.55	6.10	5.75	0.00	3.44
		STANDARD DEVIATION			0.00	2.74	3.00	2.84	0.00	1.70

**TITLE:** TWO-PASS WEED CONTROL SYSTEMS IN CORN SW-1500  
**CREATED:** 04/21/1999 **REVISED:** 09/10/1999 **COMPLETED:** N  
**PROJECT TYPE:** HERBICIDE  
**LOCATION:** DEKALB **RESEARCHED BY:** UNIV. OF ILL  
**DESIGN:** RANDOMIZED COMPLETE BLOCK DESIGN  
**PLOT SIZE:** 7.50 FT WIDE X 29.00 FT LONG **REPS:** 03

TRT NUM	TREATMENT COMPONENT	DOSAGE		TM	CHEAL	ABUTH
		RATE	UNIT		CON % 07/21/99	CON % 07/21/99
1A	FRONTIER 6.0EC	1.50	LAA	9	98	93
B	MARKSMAN SC	1.40	LAA	11		
C	28% UAN	2.50	PMV	11		
2A	DUAL II MAGNUM	1.52	LAA	9	99	87
B	NORTHSTAR 47.4	0.148	LAA	12		
C	ACTIVATE PLUS	0.25	PMV	12		
D	28% UAN	2.50	PMV	12		
3A	FRONTIER 6.0EC	1.50	LAA	9	98	92
B	CLARITY	0.50	LAA	11		
C	28% UAN	2.50	PMV	11		
4A	DUAL II MAGNUM	1.52	LAA	9	95	90
B	SPIRIT 57WG	0.036	LAA	12		
C	ACTIVATE PLUS	0.25	PMV	12		
D	28% UAN	2.50	PMV	12		
5A	FRONTIER X2 6E	0.84	LAA	9	99	95
B	DISTINCT 70WG	0.263	LAA	12		
C	ACTIVATE PLUS	0.25	PMV	12		
D	28% UAN	1.25	PMV	12		
6A	FRONTIER X2 6E	0.984	LAA	9	99	95
B	DISTINCT 70WG	0.263	LAA	11		
C	ACTIVATE PLUS	0.25	PMV	11		
D	28% UAN	2.50	PMV	11		
7A	FRONTIER X2 6E	0.84	LAA	9	99	93
B	MARKSMAN SC	1.40	LAA	10		
C	28% UAN	2.50	PMV	10		
8A	TOPNOTCH (3.2C	2.00	LAA	9	99	88
B	HORNET 85.6WG	0.128	LAA	12		
C	ACTIVATE PLUS	0.25	PMV	12		
9A	FRONTIER 6.0EC	1.50	LAA	9	96	93
B	LADDOK SP-12 (	1.04	LAA	12		
C	28% UAN	2.50	PMV	12		
10A	FRONTIER 6.0EC	0.94	LAA	9	93	93
B	ACCENT 75WG	0.031	LAA	12		
C	DISTINCT 70WG	0.175	LAA	12		
D	ACTIVATE PLUS	0.25	PMV	12		
E	28% UAN	2.50	PMV	12		
11A	DUAL II MAGNUM	1.52	LAA	9	90	82
B	BUCTRIL 2EC	0.375	LAA	12		
12A	FRONTIER 6.0EC	0.94	LAA	9	96	85
B	ACCENT 75WG	0.031	LAA	12		
C	BAS 183 70WG	0.263	LAA	12		
D	ACTIVATE PLUS	0.25	PMV	12		
E	28% UAN	2.50	PMV	12		
13A	OPTILL 6L	1.57	LAA	9	97	98
B	MARKSMAN SC	1.40	LAA	11		
C	28% UAN	2.50	PMV	11		
14A	CHECK	0.00	NA	0	0	0
15A	AXIOM	0.81	LAA	9	98	98
B	HORNET 85.6WG	0.128	LAA	12		
C	28% UAN	2.50	PMV	12		
D	ACTIVATE PLUS	0.25	PMV	12		
16A	AXIOM	0.72	LAA	9	98	78
B	ATRAZINE DF	1.35	LAA	12		
C	COC	1.00	PMV	12		

TITLE: TWO-PASS WEED CONTROL SYSTEMS IN CORN SW-1500

TRT NUM	TREATMENT COMPONENT	DOSAGE RATE	UNIT	CHEAL CON % 07/21/99	ABUTH CON % 07/21/99
17A	TOPNOTCH (3.2C	2.00	LAA 9	99	99
	B>>HORNET 85.6WG	0.128	LAA 11		
	C AATREX 4L	0.75	LAA 11		
	D>>COC	1.00	PMV 11		
	E 28% UAN	2.50	PMV 11		
18A	FULTIME 4SC	3.30	LAA 9	99	99
	B>>HORNET 85.6WG	0.128	LAA 11		
	C>>COC	1.00	PMV 11		
	D 28% UAN	2.50	PMV 11		
19A	FULTIME 4SC	3.30	LAA 9	99	99
	B>>SCORPIAN III	0.21	LAA 12		
	C>>ACTIVATE PLUS	0.25	PMV 12		
	D 28% UAN	2.50	PMV 12		
20A	FULTIME 4SC	3.30	LAA 9	98	87
	B>>SCORPIAN III	0.21	LAA 13		
	C>>COC	1.00	PMV 13		
	D 28% UAN	2.50	PMV 13		
21A	LEADOFF	0.94	LAA 9	98	88
	B>>BASIS GOLD 90D	0.78	LAA 11		
	C>>COC	1.00	PMV 11		
	D 28% UAN	2.50	PMV 11		
	LSD (0.05)			2.07	3.69
	STANDARD DEVIATION			1.00	1.83

>> = SUPPLEMENTAL CHEMICAL

\* TIMING CODES

- 00 = ----- / UNTREATED TIMING
- 09 = ----- / PREEMERGENCE 05/04/1999(1)
- 10 = ----- / VEPOST 05/26/1999(2)
- 11 = ----- / EPOST 06/10/1999(3)
- 12 = ----- / POST 06/15/1999(4)
- 13 = ----- / LPOST

H#	CUSTOM#1	CUSTOM#2	EV.DATE	S#	TYP	SPECIE	STAGE	RAW	PRT	SYM	MTH	CNF	BASIS	C.M	CTR	SS	NOTE
001	ZEAMD	CON %	07/01/1999	01	P	ZEAMD		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
002	SETFA	CON %	07/01/1999	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
003	CHEAL	CON %	07/01/1999	03	P	CHEAL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
004	ABUTH	CON %	07/01/1999	04	P	ABUTH		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
005	ZEAMD	CON %	07/21/1999	01	P	ZEAMD		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
006	SETFA	CON %	07/21/1999	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
007	CHEAL	CON %	07/21/1999	03	P	CHEAL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
008	ABUTH	CON %	07/21/1999	04	P	ABUTH		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N

\* SPECIES COMMON NAME - CULTIVAR (IF APPLICABLE)

01 = PIONEER 34G81