

SOIL INFORMATION

TRIAL INFORMATION

TEXTURE: SIX  
 PH: 6.3  
 %OM: 3.0  
 PREV.CROP: ZEAMD - CORN, DENT  
 %RESIDUE: 75  
 PLOT WIDTH: 10 X 30 FEET

DESIGN: RCB  
 REPS: 3

APPL. NUMBER	01	02	03	04	UNIT
TIMINGS	09	11	12	13	
TYPE	LIQMXSPR	LIQMXSPR	LIQMXSPR	LIQMXSPR	
APPLICATION DATE	05/25/02	06/14/02	06/18/02	06/28/02	AME
AIR TEMPERATURE	55	67	83	89	F
% REL.HUMIDITY	75	57	47	60	
WIND DIRECTION	NORTHWEST	WEST	SOUTH	WEST	
WIND SPEED	10.0	8.0	9.0	2.0	M/H
CLOUD COVER	OVERCAST	PARTCLDY	PARTCLDY	CLEAR	
DEW	DRY	DRY	DRY	DRY	
SOIL MOISTURE	MOIST/WET	MOIST/MOI	DRY/MOIST	DRY/DRY	
SOIL CONDITION	FRIABLE	FRIABLE	COMPACT	COMPACT	
METHOD	SPRAY	SPRAY	SPRAY	SPRAY	
EQUIPMENT	BACKPACKS	BACKPACKS	BACKPACKS	BACKPACKS	
PROPELLANT	COMPRSCO2	COMPRSCO2	COMPRSCO2	COMPRSCO2	
PLACEMENT	BROADCAST	BROADCAST	BROADCAST	BROADCAST	
NOZZLE	FLATFAN	FLATFAN	FLATFAN	FLATFAN	
NOZZLE NUMBER	6	6	6	6	
NOZZLE SPACING	20.000	20.000	20.000	20.000	IN
SWATH WIDTH	10.0	10.0	10.0	10.0	FT
SPRAY VOLUME	20.00	20.00	20.00	20.00	
VOLUME UNIT	GPA	GPA	GPA	GPA	
PRESSURE	32.00	32.00	32.00	32.00	PSI
DILUENT	WATER	WATER	WATER	WATER	
INC. DATE					AME
INC. START					24H
INC. END					24H
INC. DEPTH					IN
INC. EQUIPMENT	---	---	---	---	
DENSITY /					
*** CROP ***					
SOYBEAN		---/14	---/14	---/16	
ASGROW 3701RR		6.00/6.00	7.00/7.00	10.0/10.0	IN
05/23/2002					
*** PEST ***					
WATERHEMP, COMMO		HGH/16	HGH/18	HGH/19	
		2.00/4.00	4.00/6.00	4.00/12.0	IN

\* TIMING CODES

09 = ----- / PREEMERGENCE  
 11 = ----- / EPOST  
 12 = ----- / POST  
 13 = ----- / LPOST

\* STAGE CODE

14 = 4TH LEAF (2ND TRIFOLIATE LEAF) UNFOLDED, 3 NODES  
 16 = 6TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED  
 18 = 8TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED  
 19 = >8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED

## DATA MEAN

TITLE: Waterhemp Resistance Study in Soybean - Sutter

CREATED: 05/09/2002 REVISED: 11/14/2002

COMPLETED: N

PROJECT TYPE: HERBICIDE

LOCATION: Sutter

RESEARCHED BY: UNIV. OF ILL

DESIGN: RANDOMIZED COMPLETE BLOCK DESIGN

PLOT SIZE: 10.00 FT WIDE X 30.00 FT LONG

REPS: 03

TRT NUM	TREATMENT COMPONENT	DOSAGE			GLXMA	AMATA	GLXMA	AMATA	GLXMA	AMATA
		RATE	UNIT	TM	CON % 06/14/02	CON % 06/14/02	CON % 06/28/02	CON % 06/28/02	CON % 07/13/02	CON % 07/13/02
1A	AUTHORITY	0.25	LAA	9	0	94	0	78	0	50
2A	BOUNDARY 6.5EC	1.46	LAA	9	0	78	0	70	0	70
3A	PROWL 3.3EC	1.24	LAA	9	0	52	0	47	0	55
4A	DUAL II MAGNUM	1.91	LAA	9	0	82	0	75	0	60
5A	AUTHORITY	0.25	LAA	9	0	77	0	77	0	98
	B>TOUCHDOWN 3L	0.75	LAA	13						
	C>LIQUID AMS	5.00	PMV	13						
6A	BOUNDARY 6.5EC	1.22	LAA	9	0	81	0	78	0	99
	B>TOUCHDOWN 3L	0.75	LAA	13						
	C>LIQUID AMS	5.00	PMV	13						
7A	BOUNDARY 6.5EC	1.46	LAA	9	0	94	0	91	0	99
	B>TOUCHDOWN 3L	0.75	LAA	13						
	C>LIQUID AMS	5.00	PMV	13						
8A	PROWL 3.3EC	1.24	LAA	9	0	77	0	53	0	98
	B>TOUCHDOWN 3L	0.75	LAA	13						
	C>LIQUID AMS	5.00	PMV	13						
9A	DUAL II MAGNUM	1.91	LAA	9	0	94	0	68	0	99
	B>TOUCHDOWN 3L	0.75	LAA	13						
	C>LIQUID AMS	5.00	PMV	13						
10A	DUAL II MAGNUM	1.43	LAA	9	0	95	0	82	0	99
	B>AUTHORITY	0.188	LAA	9						
	C>TOUCHDOWN 3L	0.75	LAA	13						
	D>LIQUID AMS	5.00	PMV	13						
11A	DUAL II MAGNUM	1.43	LAA	9	0	95	0	80	0	99
	B>CANOPY XL 56.3	0.088	LAA	0						
	C CLASSIC 25WG	0.015	LAA	9						
	D>AUTHORITY	0.073	LAA	9						
	E>TOUCHDOWN 3L	0.75	LAA	13						
	F>LIQUID AMS	5.00	PMV	13						
12A	BOUNDARY 6.5EC	1.22	LAA	9	0	84	0	72	3	98
	B>FLEXSTAR 1.88M	0.294	LAA	13						
	C FUSION	0.21	LAA	13						
	D>MSO	1.00	PMV	13						
	E 28% UAN	2.50	PMV	13						
13A	AUTHORITY	0.25	LAA	9	0	67	0	72	5	87
	B>FLEXSTAR 1.88M	0.294	LAA	13						
	C>MSO	1.00	PMV	13						
	D 28% UAN	2.50	PMV	13						
14A	CHECK	0.00	NA	0	0	0	0	0	0	0
15A	FLEXSTAR 1.88M	0.294	LAA	11	0		5	91	0	77
	B>MSO	1.00	PMV	11						
	C 28% UAN	2.50	PMV	11						
16A	TOUCHDOWN 3L	0.75	LAA	11	0		0	98	0	95
	B>LIQUID AMS	5.00	PMV	11						
17A	TOUCHDOWN 3L	0.75	LAA	11	0		5	99	0	94
	B>FLEXSTAR 1.88M	0.176	LAA	11						
	C>LIQUID AMS	5.00	PMV	11						
18A	RNDUP ULTRA MA	0.75	LAA	11	0		0	99	0	98
	B>LIQUID AMS	5.00	PMV	11						

## DATA MEAN

TITLE: Waterhemp Resistance Study in Soybean - Sutter

TRT NUM	TREATMENT COMPONENT	DOSAGE		TM	GLXMA	AMATA	GLXMA	AMATA	GLXMA	AMATA
		RATE	UNIT		CON % 06/14/02	CON % 06/14/02	CON % 06/28/02	CON % 06/28/02	CON % 07/13/02	CON % 07/13/02
19A»	CLEAROUT 41 PL	0.75	LAA	11	0		0	99	0	94
	B»LIQUID AMS	5.00	PMV	11						
20A»	TOUCHDOWN 3L	0.75	LAA	12	0		0	98	0	99
	B»LIQUID AMS	5.00	PMV	12						
21A»	RNDUP ULTRA MA	0.75	LAA	12	0		0	93	0	99
	B»LIQUID AMS	5.00	PMV	12						
22A»	CLEAROUT 41 PL	0.75	LAA	12	0		0	98	0	99
	B»LIQUID AMS	5.00	PMV	12						
23A»	TOUCHDOWN 3L	0.75	LAA	13	0		0	0	0	92
	B»LIQUID AMS	5.00	PMV	13						
24A»	RNDUP ULTRA MA	0.75	LAA	13	0		0	0	0	85
	B»LIQUID AMS	5.00	PMV	13						
25A»	TOUCHDOWN 3L	1.13	LAA	13	0		0	0	0	90
	B»LIQUID AMS	5.00	PMV	13						
26A»	RNDUP ULTRA MA	1.13	LAA	13	0		0	0	0	98
	B»LIQUID AMS	5.00	PMV	13						
27A»	TOUCHDOWN 3L	0.75	LAA	11	0		0	96	0	99
	B»LIQUID AMS	5.00	PMV	11						
	C»TOUCHDOWN 3L	0.75	LAA	13						
	D»LIQUID AMS	5.00	PMV	13						
28A»	RNDUP ULTRA MA	0.75	LAA	11	0		0	99	0	99
	B»LIQUID AMS	5.00	PMV	11						
	C»RNDUP ULTRA MA	0.75	LAA	13						
	D»LIQUID AMS	5.00	PMV	13						
		LSD (0.05)			0.00	8.34	0.00	11.48	0.891	12.59
		STANDARD DEVIATION			0.00	4.17	0.00	5.74	0.445	6.30

## DATA MEAN

**TITLE:** Waterhemp Resistance Study in Soybean - Sutter  
**CREATED:** 05/09/2002 **REVISED:** 11/14/2002 **COMPLETED:** N  
**PROJECT TYPE:** HERBICIDE  
**LOCATION:** Sutter **RESEARCHED BY:** UNIV. OF ILL  
**DESIGN:** RANDOMIZED COMPLETE BLOCK DESIGN  
**PLOT SIZE:** 10.00 FT **WIDE X** 30.00 FT **LONG** **REPS:** 03

TRT NUM	TREATMENT COMPONENT	DOSAGE		TM	GLXMA	AMATA
		RATE	UNIT		CON % 08/01/02	CON % 08/01/02
1A	AUTHORITY	0.25	LAA	9	0	43
2A	BOUNDARY 6.5EC	1.46	LAA	9	0	67
3A	PROWL 3.3EC	1.24	LAA	9	0	55
4A	DUAL II MAGNUM	1.91	LAA	9	0	67
5A	AUTHORITY	0.25	LAA	9	0	96
	B>TOUCHDOWN 3L	0.75	LAA	13		
	C>LIQUID AMS	5.00	PMV	13		
6A	BOUNDARY 6.5EC	1.22	LAA	9	0	99
	B>TOUCHDOWN 3L	0.75	LAA	13		
	C>LIQUID AMS	5.00	PMV	13		
7A	BOUNDARY 6.5EC	1.46	LAA	9	0	99
	B>TOUCHDOWN 3L	0.75	LAA	13		
	C>LIQUID AMS	5.00	PMV	13		
8A	PROWL 3.3EC	1.24	LAA	9	0	99
	B>TOUCHDOWN 3L	0.75	LAA	13		
	C>LIQUID AMS	5.00	PMV	13		
9A	DUAL II MAGNUM	1.91	LAA	9	0	99
	B>TOUCHDOWN 3L	0.75	LAA	13		
	C>LIQUID AMS	5.00	PMV	13		
10A	DUAL II MAGNUM	1.43	LAA	9	0	99
	B>AUTHORITY	0.188	LAA	9		
	C>TOUCHDOWN 3L	0.75	LAA	13		
	D>LIQUID AMS	5.00	PMV	13		
11A	DUAL II MAGNUM	1.43	LAA	9	0	99
	B>CANOPY XL 56.3	0.088	LAA	0		
	C CLASSIC 25WG	0.015	LAA	9		
	D>AUTHORITY	0.073	LAA	9		
	E>TOUCHDOWN 3L	0.75	LAA	13		
	F>LIQUID AMS	5.00	PMV	13		
12A	BOUNDARY 6.5EC	1.22	LAA	9	0	99
	B>FLEXSTAR 1.88M	0.294	LAA	13		
	C FUSION	0.21	LAA	13		
	D>MSO	1.00	PMV	13		
	E 28% UAN	2.50	PMV	13		
13A	AUTHORITY	0.25	LAA	9	0	94
	B>FLEXSTAR 1.88M	0.294	LAA	13		
	C>MSO	1.00	PMV	13		
	D 28% UAN	2.50	PMV	13		
14A	CHECK	0.00	NA	0	0	0
15A	FLEXSTAR 1.88M	0.294	LAA	11	0	80
	B>MSO	1.00	PMV	11		
	C 28% UAN	2.50	PMV	11		
16A	TOUCHDOWN 3L	0.75	LAA	11	0	99
	B>LIQUID AMS	5.00	PMV	11		
17A	TOUCHDOWN 3L	0.75	LAA	11	0	96
	B>FLEXSTAR 1.88M	0.176	LAA	11		
	C>LIQUID AMS	5.00	PMV	11		
18A	RNDUP ULTRA MA	0.75	LAA	11	0	99
	B>LIQUID AMS	5.00	PMV	11		

DATA MEAN

TITLE: Waterhemp Resistance Study in Soybean - Sutter

TRT NUM	TREATMENT COMPONENT	DOSAGE		TM	GLXMA	AMATA
		RATE	UNIT		CON % 08/01/02	CON % 08/01/02
19A	CLEAROUT 41 PL	0.75	LAA 11		0	99
B	LIQUID AMS	5.00	PMV 11			
20A	TOUCHDOWN 3L	0.75	LAA 12		0	99
B	LIQUID AMS	5.00	PMV 12			
21A	RNDUP ULTRA MA	0.75	LAA 12		0	99
B	LIQUID AMS	5.00	PMV 12			
22A	CLEAROUT 41 PL	0.75	LAA 12		0	99
B	LIQUID AMS	5.00	PMV 12			
23A	TOUCHDOWN 3L	0.75	LAA 13		0	99
B	LIQUID AMS	5.00	PMV 13			
24A	RNDUP ULTRA MA	0.75	LAA 13		0	99
B	LIQUID AMS	5.00	PMV 13			
25A	TOUCHDOWN 3L	1.13	LAA 13		0	96
B	LIQUID AMS	5.00	PMV 13			
26A	RNDUP ULTRA MA	1.13	LAA 13		0	99
B	LIQUID AMS	5.00	PMV 13			
27A	TOUCHDOWN 3L	0.75	LAA 11		0	99
B	LIQUID AMS	5.00	PMV 11			
C	TOUCHDOWN 3L	0.75	LAA 13			
D	LIQUID AMS	5.00	PMV 13			
28A	RNDUP ULTRA MA	0.75	LAA 11		0	99
B	LIQUID AMS	5.00	PMV 11			
C	RNDUP ULTRA MA	0.75	LAA 13			
D	LIQUID AMS	5.00	PMV 13			
LSD (0.05)					0.00	10.84
STANDARD DEVIATION					0.00	5.42

>> = SUPPLEMENTAL CHEMICAL

\* TIMING CODES

- 00 = ----- / UNTREATED TIMING
- 09 = ----- / PREEMERGENCE 05/25/2002 (1)
- 11 = ----- / EPOST 06/14/2002 (2)
- 12 = ----- / POST 06/18/2002 (3)
- 13 = ----- / LPOST 06/28/2002 (4)

H#	CUSTOM#1	CUSTOM#2	EV. DATE	S#	TYP	SPECIE	STAGE	RAW	PRT	SYM	MTH	CNF	BASIS	C.M	CTRTR	SS	NOTE
01	GLXMA	CON %	06/14/2002	01	P	GLXMA	14	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
02	AMATA	CON %	06/14/2002	02	P	AMATA	16	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
03	GLXMA	CON %	06/28/2002	01	P	GLXMA	16	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
04	AMATA	CON %	06/28/2002	02	P	AMATA	19	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
05	GLXMA	CON %	07/13/2002	01	P	GLXMA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
06	AMATA	CON %	07/13/2002	02	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
07	GLXMA	CON %	08/01/2002	01	P	GLXMA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
08	AMATA	CON %	08/01/2002	02	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N

\* SPECIES COMMON NAME - CULTIVAR (IF APPLICABLE)

01 = ASGROW 3701RR

\* STAGE CODE

- 14 = 4TH LEAF (2ND TRIFOLIATE LEAF) UNFOLDED, 3 NODES
- 16 = 6TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
- 19 = >8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED