

## SOIL INFORMATION

## TRIAL INFORMATION

TEXTURE: SIL  
PH: 6.7  
%OM: 1.5  
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	05/29/02	06/17/02	06/21/02	07/01/02	AME
AIR TEMPERATURE	71	76	87	83	F
% REL. HUMIDITY	76	36	52	70	
WIND DIRECTION	EAST	WEST	SOUTHWEST	SOUTH	
WIND SPEED	2.0	3.0	2.0	2.0	M/H
CLOUD COVER	OVERCAST	CLEAR	CLEAR	CLEAR	
DEW	DRY	DRY	DRY	MOIST	
SOIL MOISTURE	MOIST/MOI	MOIST/MOI	DRY/MOIST	DRY/MOIST	
SOIL CONDITION	COMPACT	COMPACT	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 /					
*** PEST ***					
WATERHEMP, COMMO		HGH/16 1.00/4.00	HGH/19 5.00/6.00	HGH/19 8.00/12.0	IN
SOYBEAN		---/14	---/15	---/16	
PIONEER 93B67		4.00/4.00	5.00/5.00	8.00/8.00	IN
05/29/2002					

## \* TIMING CODES

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

## \* STAGE CODE

14 = 4TH LEAF (2ND TRIFOLIATE LEAF) UNFOLDED, 3 NODES  
15 = 5TH LEAF (3RD TRIFOLIATE LEAF) UNFOLDED, 4 NODES  
16 = 6TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED  
19 = >8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED

## DATA MEAN

TITLE: Waterhemp Resistance Study in Soybean - Brownstown

CREATED: 05/09/2002 REVISED: 11/07/2002

COMPLETED: N

PROJECT TYPE: HERBICIDE

LOCATION: Brownstown

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	GLXMA	AMATA	AMATA
		RATE	UNIT	TM	CON % 07/01/02	CON % 07/01/02	CON % 07/15/02	CON % 07/29/02	CON % 07/15/02	CON % 07/29/02
1A	AUTHORITY	0.25	LAA	9	0	98	0	0	99	99
2A	BOUNDARY 6.5EC	1.46	LAA	9	0	97	0	0	93	93
3A	PROWL 3.3EC	1.24	LAA	9	0	91	0	0	77	70
4A	DUAL II MAGNUM	1.91	LAA	9	0	99	0	0	98	95
5A	AUTHORITY	0.25	LAA	9	0	95	0	0	99	99
	B>TOUCHDOWN 3L	0.75	LAA	13						
	C>LIQUID AMS	5.00	PMV	13						
6A	BOUNDARY 6.5EC	1.22	LAA	9	0	93	0	0	99	99
	B>TOUCHDOWN 3L	0.75	LAA	13						
	C>LIQUID AMS	5.00	PMV	13						
7A	BOUNDARY 6.5EC	1.46	LAA	9	0	95	0	0	99	98
	B>TOUCHDOWN 3L	0.75	LAA	13						
	C>LIQUID AMS	5.00	PMV	13						
8A	PROWL 3.3EC	1.24	LAA	9	0	33	0	0	99	98
	B>TOUCHDOWN 3L	0.75	LAA	13						
	C>LIQUID AMS	5.00	PMV	13						
9A	DUAL II MAGNUM	1.91	LAA	9	0	91	0	0	98	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	0	99	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	0	99	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	93	0	0	99	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	96	0	0	99	99
	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		0	0	99	96
	B>MSO	1.00	PMV	11						
	C 28% UAN	2.50	PMV	11						
16A	TOUCHDOWN 3L	0.75	LAA	11	0		0	0	77	72
	B>LIQUID AMS	5.00	PMV	11						
17A	TOUCHDOWN 3L	0.75	LAA	11	0		0	0	91	85
	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	0	73	70
	B>LIQUID AMS	5.00	PMV	11						

## DATA MEAN

TITLE: Waterhemp Resistance Study in Soybean - Brownstown

TRT NUM	TREATMENT COMPONENT	DOSAGE		TM	GLXMA	AMATA	GLXMA	GLXMA	AMATA	AMATA
		RATE	UNIT		CON % 07/01/02	CON % 07/01/02	CON % 07/15/02	CON % 07/29/02	CON % 07/15/02	CON % 07/29/02
19A»	CLEAROUT 41 PL	0.75	LAA	11	0		0	0	79	77
	B»LIQUID AMS	5.00	PMV	11						
20A»	TOUCHDOWN 3L	0.75	LAA	12	0		0	0	98	90
	B»LIQUID AMS	5.00	PMV	12						
21A»	RNDUP ULTRA MA	0.75	LAA	12	0		0	0	89	83
	B»LIQUID AMS	5.00	PMV	12						
22A»	CLEAROUT 41 PL	0.75	LAA	12	0		0	0	98	95
	B»LIQUID AMS	5.00	PMV	12						
23A»	TOUCHDOWN 3L	0.75	LAA	13	0		0	0	89	95
	B»LIQUID AMS	5.00	PMV	13						
24A»	RNDUP ULTRA MA	0.75	LAA	13	0		0	0	90	96
	B»LIQUID AMS	5.00	PMV	13						
25A»	TOUCHDOWN 3L	1.13	LAA	13	0		0	0	95	95
	B»LIQUID AMS	5.00	PMV	13						
26A»	RNDUP ULTRA MA	1.13	LAA	13	0		0	0	94	95
	B»LIQUID AMS	5.00	PMV	13						
27A»	TOUCHDOWN 3L	0.75	LAA	11	0		0	0	98	96
	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	0	99	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	6.32	0.00	0.00	12.91	14.66
		STANDARD DEVIATION			0.00	3.16	0.00	0.00	6.45	7.33

## DATA MEAN

**TITLE:** Waterhemp Resistance Study in Soybean - Brownstown  
**CREATED:** 05/09/2002 **REVISED:** 11/07/2002 **COMPLETED:** N  
**PROJECT TYPE:** HERBICIDE  
**LOCATION:** Brownstown **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
		RATE	UNIT		BU/A
					09/26/02
1A	AUTHORITY	0.25	LAA	9	11.9
2A	BOUNDARY 6.5EC	1.46	LAA	9	11.9
3A	PROWL 3.3EC	1.24	LAA	9	10.7
4A	DUAL II MAGNUM	1.91	LAA	9	10.6
5A	AUTHORITY	0.25	LAA	9	17.8
	B>TOUCHDOWN 3L	0.75	LAA	13	
	C>LIQUID AMS	5.00	PMV	13	
6A	BOUNDARY 6.5EC	1.22	LAA	9	19.6
	B>TOUCHDOWN 3L	0.75	LAA	13	
	C>LIQUID AMS	5.00	PMV	13	
7A	BOUNDARY 6.5EC	1.46	LAA	9	16.7
	B>TOUCHDOWN 3L	0.75	LAA	13	
	C>LIQUID AMS	5.00	PMV	13	
8A	PROWL 3.3EC	1.24	LAA	9	19.6
	B>TOUCHDOWN 3L	0.75	LAA	13	
	C>LIQUID AMS	5.00	PMV	13	
9A	DUAL II MAGNUM	1.91	LAA	9	20.0
	B>TOUCHDOWN 3L	0.75	LAA	13	
	C>LIQUID AMS	5.00	PMV	13	
10A	DUAL II MAGNUM	1.43	LAA	9	17.1
	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	15.0
	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	14.1
	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	7.2
	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	14.1
15A	FLEXSTAR 1.88M	0.294	LAA	11	11.2
	B>MSO	1.00	PMV	11	
	C 28% UAN	2.50	PMV	11	
16A	TOUCHDOWN 3L	0.75	LAA	11	15.8
	B>LIQUID AMS	5.00	PMV	11	
17A	TOUCHDOWN 3L	0.75	LAA	11	14.4
	B>FLEXSTAR 1.88M	0.176	LAA	11	
	C>LIQUID AMS	5.00	PMV	11	
18A	RNDUP ULTRA MA	0.75	LAA	11	16.6
	B>LIQUID AMS	5.00	PMV	11	

DATA MEAN

TITLE: Waterhemp Resistance Study in Soybean - Brownstown

TRT	TREATMENT	DOSAGE	GLXMA	
NUM	COMPONENT	RATE	BU/A	TM
				09/26/02
19A»	CLEAROUT 41 PL	0.75	LAA 11	17.1
B»	LIQUID AMS	5.00	PMV 11	
20A»	TOUCHDOWN 3L	0.75	LAA 12	16.1
B»	LIQUID AMS	5.00	PMV 12	
21A»	RNDUP ULTRA MA	0.75	LAA 12	13.2
B»	LIQUID AMS	5.00	PMV 12	
22A»	CLEAROUT 41 PL	0.75	LAA 12	12.3
B»	LIQUID AMS	5.00	PMV 12	
23A»	TOUCHDOWN 3L	0.75	LAA 13	17.1
B»	LIQUID AMS	5.00	PMV 13	
24A»	RNDUP ULTRA MA	0.75	LAA 13	14.0
B»	LIQUID AMS	5.00	PMV 13	
25A»	TOUCHDOWN 3L	1.13	LAA 13	14.5
B»	LIQUID AMS	5.00	PMV 13	
26A»	RNDUP ULTRA MA	1.13	LAA 13	11.9
B»	LIQUID AMS	5.00	PMV 13	
27A»	TOUCHDOWN 3L	0.75	LAA 11	13.1
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	14.0
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)		7.36
		STANDARD DEVIATION		3.68

>> = SUPPLEMENTAL CHEMICAL

\* TIMING CODES

- 00 = ----- / UNTREATED TIMING
- 09 = ----- / PREEMERGENCE 05/29/2002 (1)
- 11 = ----- / EPOST 06/17/2002 (2)
- 12 = ----- / POST 06/21/2002 (3)
- 13 = ----- / LPOST 07/01/2002 (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 %	07/01/2002	01	P	GLXMA	16	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
02	AMATA	CON %	07/01/2002	02	P	AMATA	19	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
03	GLXMA	CON %	07/15/2002	01	P	GLXMA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
05	GLXMA	CON %	07/29/2002	01	P	GLXMA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
04	AMATA	CON %	07/15/2002	02	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
06	AMATA	CON %	07/29/2002	02	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
07	GLXMA	BU/A	09/26/2002	01	P	GLXMA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N

\* SPECIES COMMON NAME - CULTIVAR (IF APPLICABLE)

01 = PIONEER 93B67

\* STAGE CODE

- 16 = 6TH LEAF (4TH TRIFOLIATE LEAF) UNFOLDED, 5 NODES
- 19 = >8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED