

SOIL INFORMATION

TRIAL INFORMATION

TEXTURE: SIX
PH: 6.6
%OM: 5.4
PREV.CROP: ZEAMD - CORN, DENT
%RESIDUE: 0
PLOT WIDTH: 10 X 30 FEET
PLOT AREA: 300 FEET

DESIGN: RCB
REPS: 3

APPL. NUMBER	01	02	03	04	UNIT
TIMINGS	09	11	13	15	
TYPE	LIQMIX	LIQMIX	LIQMIX	LIQMIX	
APPLICATION DATE	05/03/11	06/28/11	07/01/11	07/15/11	AME
AIR TEMPERATURE	88	73	77	82	F
% REL.HUMIDITY	66	47	52	43	
WIND DIRECTION	SOUTH	NORTHWEST	WEST	EAST	
WIND SPEED	7.0	5.0	5.0	3.0	M/H
CLOUD COVER	CLEAR	CLEAR	CLOUDY	CLEAR	
DEW	NO	NO	NO	NO	
SOIL MOISTURE	DRY/MOIST	MOIST/MOI	MOIST/MOI	DRY/MOIST	
SOIL CONDITION	---	---	---	---	
METHOD	SPRAY	SPRAY	SPRAY	SPRAY	
EQUIPMENT	SPRBAC	SPRBAC	SPRBAC	SPRBAC	
PROPELLANT	COMCO2	COMCO2	COMCO2	COMCO2	
PLACEMENT	BRFOSO	BRFOSO	BRFOSO	BRFOSO	
NOZZLE	FLATFAN	FLATFAN	FLATFAN	FLATFAN	
NOZZLE NUMBER	6	6	6	6	
NOZZLE SPACING	20.000	20.000	20.000	20.000	IN
SCREEN SIZE					
SCREEN SZ DESC	NA	NA	NA	NA	
SWATH WIDTH	10.0	10.0	10.0	10.0	FT
SPRAY VOLUME	20.00	20.00	20.00	20.00	
SPRAY 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		---/13	---/14	---/61	
A 3431RR		5.00/5.00	7.00/7.00	12.0/12.0	IN
06/03/2011					
*** PEST ***					
WATERHEMP, COMMO		---/19	---/19	---/19	
		2.00/8.00	2.00/12.0	2.00/24.0	IN
MORNINGGLORY, TA		---/14	---/13	---/18	
		2.00/4.00	2.00/6.00	2.00/12.0	IN
FOXTAIL, GIANT		---/14	---/15	---/17	
		2.00/6.00	2.00/7.00	2.00/14.0	IN

* TIMING CODES

09 = ----- / PREEMERGENCE
11 = ----- / EPOST
13 = ----- / LPOST
15 = ----- / PO.DIRECTED

* STAGE CODE

13 = 3RD LEAF (1ST TRIFOLIATE LEAF) UNFOLDED, 2 NODES
13 = 3RD TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
14 = 4 LEAVES UNFOLDED
14 = 4TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
14 = 4TH LEAF (2ND TRIFOLIATE LEAF) UNFOLDED, 3 NODES
15 = 5 LEAVES UNFOLDED
17 = 7 LEAVES UNFOLDED
18 = 8TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
19 = >8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
61 = 10% OF FLOWERS OPEN (DETERMINATE); BEGINNING OF FLOWERING (INDETERM.)

TITLE: Influence of Weed Management on Optimal Soybean Seeding Rate. R-3N
CREATED: 04/17/2011 **REVISED:** 11/09/2011 **COMPLETED:** N
PROJECT TYPE: HERBICIDE
LOCATION: Urbana **RESEARCHED BY:** UNIV. OF ILL
DESIGN: RANDOMIZED COMPLETE BLOCK DESIGN
PLOT SIZE: 10.00 FT WIDE X 30.00 FT LONG
PLOT AREA: 300.00 SFT

REPS: 03

TRT	TREATMENT	DOSAGE		GLXMA	SETFA	AMATA	PHBPU	YIELD
NUM	COMPONENT	RATE	UNIT TM	21 DAT 06/28/11	21 DAT 06/28/11	21 DAT 06/28/11	21 DAT 06/28/11	BU/A 10/24/11
1A»	50,000 SEEDS/A	0.00	NA 0	0	99	99	99	67.0
	B»HAND WEEDED	0.00	NA 0					
	C PROWL H2O 3.8	1.19	LAA 9					
	D»SONIC 70DF	0.28	LAA 9					
	E»RNDUP POWERMAX	0.77	LAA 11					
	F»LIQUID AMS	2.50	PMV 11					
	G»RNDUP POWERMAX	0.77	LAA 13					
	H»LIQUID AMS	2.50	PMV 13					
2A»	50,000 SEEDS/A	0.00	NA 0	0	99	96	96	62.0
	B»RNDUP POWERMAX	0.77	LAA 11					
	C»LIQUID AMS	2.50	PMV 11					
3A»	50,000 SEEDS/A	0.00	NA 0	0	99	97	95	55.0
	B»RNDUP POWERMAX	0.77	LAA 13					
	C»LIQUID AMS	2.50	PMV 13					
4A»	50,000 SEEDS/A	0.00	NA 0	0	93	88	83	30.0
	B»RNDUP POWERMAX	0.77	LAA 15					
	C»LIQUID AMS	2.50	PMV 15					
5A»	50,000 SEEDS/A	0.00	NA 0	0	0	0	0	18.0
	B CHECK	0.00	NA 0					
6A»	100,000 SEEDS/	0.00	NA 0	0	99	99	99	71.0
	B»HAND WEEDED	0.00	NA 0					
	C PROWL H2O 3.8	1.19	LAA 9					
	D»SONIC 70DF	0.28	LAA 9					
	E»RNDUP POWERMAX	0.77	LAA 11					
	F»LIQUID AMS	2.50	PMV 11					
	G»RNDUP POWERMAX	0.77	LAA 13					
	H»LIQUID AMS	2.50	PMV 13					
7A»	100,000 SEEDS/	0.00	NA 0	0	99	95	98	67.0
	B»RNDUP POWERMAX	0.77	LAA 11					
	C»LIQUID AMS	2.50	PMV 11					
8A»	100,000 SEEDS/	0.00	NA 0	0	99	98	97	64.0
	B»RNDUP POWERMAX	0.77	LAA 13					
	C»LIQUID AMS	2.50	PMV 13					
9A»	100,000 SEEDS/	0.00	NA 0	0	96	89	86	43.0
	B»RNDUP POWERMAX	0.77	LAA 15					
	C»LIQUID AMS	2.50	PMV 15					
10A»	100,000 SEEDS/	0.00	NA 0	0	0	0	0	32.0
	B CHECK	0.00	NA 0					
11A»	150,000 SEEDS/	0.00	NA 0	0	99	99	99	70.0
	B»HAND WEEDED	0.00	NA 0					
	C PROWL H2O 3.8	1.19	LAA 9					
	D»SONIC 70DF	0.28	LAA 9					
	E»RNDUP POWERMAX	0.77	LAA 11					
	F»LIQUID AMS	2.50	PMV 11					
	G»RNDUP POWERMAX	0.77	LAA 13					
	H»LIQUID AMS	2.50	PMV 13					
12A»	150,000 SEEDS/	0.00	NA 0	0	99	98	97	69.0
	B»RNDUP POWERMAX	0.77	LAA 11					
	C»LIQUID AMS	2.50	PMV 11					
13A»	150,000 SEEDS/	0.00	NA 0	0	99	99	98	68.0
	B»RNDUP POWERMAX	0.77	LAA 13					
	C»LIQUID AMS	2.50	PMV 13					

TITLE: Influence of Weed Management on Optimal Soybean Seeding Rate. R-3N

TRT NUM	TREATMENT COMPONENT	DOSAGE RATE	UNIT	TM	GLXMA 21 DAT 06/28/11	SETFA 21 DAT 06/28/11	AMATA 21 DAT 06/28/11	PHBPU 21 DAT 06/28/11	YIELD BU/A 10/24/11
14A»	150,000 SEEDS/ B»RNDUP POWERMAX C»LIQUID AMS	0.00 0.77 2.50	NA LAA PMV	0 15 15	0	97	90	91	64.0
15A»	150,000 SEEDS/ B CHECK	0.00 0.00	NA NA	0 0	0	0	0	0	39.0
16A»	50,000 SEEDS/A B»HAND WEEDED C PROWL H2O 3.8 D»SONIC 70DF E»RNDUP POWERMAX F»LIQUID AMS G»RNDUP POWERMAX H»LIQUID AMS I HEADLINE 2.09E J»WARRIOR 1 CS K»ACTIVATOR 90	0.00 0.00 1.19 0.28 0.77 2.50 0.77 2.50 0.098 0.02 0.25	NA NA LAA LAA LAA PMV LAA PMV LAA LAA PMV	0 0 9 9 11 11 13 13 15 15 15	0	99	99	99	66.0
17A»	50,000 SEEDS/A B»RNDUP POWERMAX C»LIQUID AMS D HEADLINE 2.09E E»WARRIOR 1 CS F»ACTIVATOR 90	0.00 0.77 2.50 0.098 0.02 0.25	NA LAA PMV LAA LAA PMV	0 11 11 15 15 15	0	99	98	97	59.0
18A»	50,000 SEEDS/A B»RNDUP POWERMAX C»LIQUID AMS D HEADLINE 2.09E E»WARRIOR 1 CS F»ACTIVATOR 90	0.00 0.77 2.50 0.098 0.02 0.25	NA LAA PMV LAA LAA PMV	0 13 13 15 15 15	0	99	98	96	57.0
19A»	50,000 SEEDS/A B»RNDUP POWERMAX C»LIQUID AMS D HEADLINE 2.09E E»WARRIOR 1 CS F»ACTIVATOR 90	0.00 0.77 2.50 0.098 0.02 0.25	NA LAA PMV LAA LAA PMV	0 15 15 15 15 15	0	91	90	83	37.0
20A»	50,000 SEEDS/A B CHECK C HEADLINE 2.09E D»WARRIOR 1 CS E»ACTIVATOR 90	0.00 0.00 0.098 0.02 0.25	NA NA LAA LAA PMV	0 0 15 15 15	0	0	0	0	16.0
21A»	100,000 SEEDS/ B»HAND WEEDED C PROWL H2O 3.8 D»SONIC 70DF E»RNDUP POWERMAX F»LIQUID AMS G»RNDUP POWERMAX H»LIQUID AMS I HEADLINE 2.09E J»WARRIOR 1 CS K»ACTIVATOR 90	0.00 0.00 1.19 0.28 0.77 2.50 0.77 2.50 0.098 0.02 0.25	NA NA LAA LAA LAA PMV LAA PMV LAA LAA PMV	0 0 9 9 11 11 13 13 15 15 15	0	99	99	99	66.0
22A»	100,000 SEEDS/ B»RNDUP POWERMAX C»LIQUID AMS D HEADLINE 2.09E E»WARRIOR 1 CS F»ACTIVATOR 90	0.00 0.77 2.50 0.098 0.02 0.25	NA LAA PMV LAA LAA PMV	0 11 11 15 15 15	0	99	98	97	65.0
23A»	100,000 SEEDS/ B»RNDUP POWERMAX C»LIQUID AMS D HEADLINE 2.09E E»WARRIOR 1 CS F»ACTIVATOR 90	0.00 0.77 2.50 0.098 0.02 0.25	NA LAA PMV LAA LAA PMV	0 13 13 15 15 15	0	99	99	97	62.0

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TRT	TREATMENT	DOSAGE		GLXMA	SETFA	AMATA	PHBPU	YIELD	
NUM	COMPONENT	RATE	UNIT	TM	21 DAT	21 DAT	21 DAT	BU/A	
					06/28/11	06/28/11	06/28/11	10/24/11	
24A»	100,000 SEEDS/	0.00	NA	0	0	97	94	91	56.0
	B»RNDUP POWERMAX	0.77	LAA	15					
	C»LIQUID AMS	2.50	PMV	15					
	D HEADLINE 2.09E	0.098	LAA	15					
	E»WARRIOR 1 CS	0.02	LAA	15					
	F»ACTIVATOR 90	0.25	PMV	15					
25A»	100,000 SEEDS/	0.00	NA	0	0	0	0	0	41.0
	B CHECK	0.00	NA	0					
	C HEADLINE 2.09E	0.098	LAA	15					
	D»WARRIOR 1 CS	0.02	LAA	15					
	E»ACTIVATOR 90	0.25	PMV	15					
26A»	150,000 SEEDS/	0.00	NA	0	0	99	99	99	67.0
	B»HAND WEEDED	0.00	NA	0					
	C PROWL H2O 3.8	1.19	LAA	9					
	D»SONIC 70DF	0.28	LAA	9					
	E»RNDUP POWERMAX	0.77	LAA	11					
	F»LIQUID AMS	2.50	PMV	11					
	G»RNDUP POWERMAX	0.77	LAA	13					
	H»LIQUID AMS	2.50	PMV	13					
	I HEADLINE 2.09E	0.098	LAA	15					
	J»WARRIOR 1 CS	0.02	LAA	15					
	K»ACTIVATOR 90	0.25	PMV	15					
27A»	150,000 SEEDS/	0.00	NA	0	0	99	97	98	70.0
	B»RNDUP POWERMAX	0.77	LAA	11					
	C»LIQUID AMS	2.50	PMV	11					
	D HEADLINE 2.09E	0.098	LAA	15					
	E»WARRIOR 1 CS	0.02	LAA	15					
	F»ACTIVATOR 90	0.25	PMV	15					
28A»	150,000 SEEDS/	0.00	NA	0	0	99	99	98	69.0
	B»RNDUP POWERMAX	0.77	LAA	13					
	C»LIQUID AMS	2.50	PMV	13					
	D HEADLINE 2.09E	0.098	LAA	15					
	E»WARRIOR 1 CS	0.02	LAA	15					
	F»ACTIVATOR 90	0.25	PMV	15					
29A»	150,000 SEEDS/	0.00	NA	0	0	98	94	93	61.0
	B»RNDUP POWERMAX	0.77	LAA	15					
	C»LIQUID AMS	2.50	PMV	15					
	D HEADLINE 2.09E	0.098	LAA	15					
	E»WARRIOR 1 CS	0.02	LAA	15					
	F»ACTIVATOR 90	0.25	PMV	15					
30A»	150,000 SEEDS/	0.00	NA	0	0	0	0	0	37.0
	B CHECK	0.00	NA	0					
	C HEADLINE 2.09E	0.098	LAA	15					
	D»WARRIOR 1 CS	0.02	LAA	15					
	E»ACTIVATOR 90	0.25	PMV	15					
LSD (0.05)					0.00	1.40	3.25	2.64	11.55
STANDARD DEVIATION					0.00	0.701	1.62	1.32	5.77

» = SUPPLEMENTAL CHEMICAL

* TIMING CODES

00 = ----- / UNTREATED TIMING
09 = ----- / PREEMERGENCE 05/03/2011(1)
11 = ----- / EPOST 06/28/2011(2)
13 = ----- / LPOST 07/01/2011(3)
15 = ----- / PO.DIRECTED 07/15/2011(4)

H#	CUSTOM#1	CUSTOM#2	EV. DATE	S#	TYP	SPECIE	STAGE	RAW	PRT	SYM	MTH	CNF	BASIS	C.M	CTR	SS	NOTE
001	GLXMA	21 DAT	06/28/2011	01	P	GLXMA	13	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
002	SETFA	21 DAT	06/28/2011	02	P	SETFA	14	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
003	AMATA	21 DAT	06/28/2011	03	P	AMATA	19	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
004	PHBPU	21 DAT	06/28/2011	04	P	PHBPU	14	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
005	YIELD	BU/A	10/24/2011	01	P	GLXMA		RAW	---	YLD	---	---	1.00 ---	NO	0001	0	Y

* SEE INDIVIDUAL EVALUATION COMMENTS UNDER SPECIFIC TRIAL NOTES

*** SPECIES COMMON NAME - VARIETY/SPECIE INFO (IF APPLICABLE)**

01 = A 3431RR

*** STAGE CODE**

13 = 3RD LEAF (1ST TRIFOLIATE LEAF) UNFOLDED, 2 NODES
14 = 4 LEAVES UNFOLDED
14 = 4TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
19 = >8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED