

## SOIL INFORMATION

## TRIAL INFORMATION

TEXTURE: SIX  
 PH: 6.6  
 %OM: 5.4  
 PREV.CROP: GLXMA - SOYBEAN  
 %RESIDUE: 0  
 PLOT WIDTH: 10 X 30 FEET  
 PLOT AREA: 300 FEET

DESIGN: RCB  
 REPS: 3

APPL. NUMBER	01	02	UNIT
TIMINGS	09	11	
TYPE	LIQUID MI	LIQUID MI	
APPLICATION DATE	05/22/15	06/15/15	AME
AIR TEMPERATURE	77	84	F
% REL.HUMIDITY	45	77	
WIND DIRECTION	NORTHEAST	SOUTHWEST	
WIND SPEED	1.0	6.0	M/H
CLOUD COVER	PAR.CLOUD	PAR.CLOUD	
DEW	NO	NO	
SOIL MOISTURE	DRY/MOIST	MOIST/MOI	
SOIL CONDITION	TO BE SEL	TO BE SEL	
METHOD	SPRAY	SPRAY	
EQUIPMENT	BACKPACK/	BACKPACK/	
PROPELLANT	COMPRESSE	COMPRESSE	
PLACEMENT	BROADCAST	BROADCAST	
NOZZLE	FLATFAN	FLATFAN	
NOZZLE DESCRIPTION			
NOZZLE NUMBER	6	6	
NOZZLE SPACING	20.000	20.000	IN
SCREEN SIZE			
SCREEN SZ DESC	NA	NA	
SWATH WIDTH	10.0	10.0	FT
SPRAY VOLUME	20.00	20.00	
SPRAY VOLUME UNIT	GPA	GPA	
PRESSURE	32.00	32.00	PSI
DILUENT	WATER	WATER	
INC. DATE			AME
INC. START			24H
INC. END			24H
INC. DEPTH			IN
INC. EQUIPMENT	TO BE SEL	TO BE SEL	
FOLIAGE HEIGHT			FT
FOLIAGE WIDTH			FT
ROW WIDTH			FT
SPRAY VOL LWA/TRV			
S VOL LWA/TRV UNIT			
LEAF WALL AREA			M2H
TREE ROW VOLUME			M3H
SPECIE AND STAGE	DEN / STG MIN / MAX	DEN / STG MIN / MAX	
CROP *			
P, CORN, DENT DKC 62-77 (PLANTED) 05/22/2015		---/14 12.0/14.0 24 DAP	IN
PEST *			
P, VELVETLEAF		---/11 1.00/1.00	IN
P, WATERHEMP, COMMO		---/19 1.00/6.00	IN
P, MORNINGGLORY, TA		---/12 1.00/2.00	IN
P, FOXTAIL, GIANT		---/13 1.00/3.00	IN

## \* TIMING CODES

09 = --- / PREEMERGENCE  
 11 = --- / EPOST

## \* STAGE CODE

11 = 1ST TRUE LEAF/LEAF PAIR/WHORL UNFOLDED  
 12 = 2ND TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED

\* STAGE CODE

13 = 3 LEAVES UNFOLDED  
14 = 4 LEAVES UNFOLDED  
19 = >8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED

**TITLE:** HAI Mesotrione Comparison for Weed Control Systems in RR/LL Corn. R-3N  
**CREATED:** 04/20/2015 **REVISED:** 07/27/2015 **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 NUM	TREATMENT COMPONENT	DOSAGE			ZEAMD	SETFA	AMATA	PHBPU	ABUTH	ZEAMD	
		RATE	UNIT	TM	CON % 06/06/15	CON % 06/06/15	CON % 06/06/15	CON % 06/06/15	CON % 06/06/15	CON % 06/15/15	
1A	HAI MESOTRIONE	0.12	LAA	9	0	0	95	72	73	0	
2A	CALLISTO 4SC	0.12	LAA	9	0	0	94	72	78	0	
3A	HAI MESOTRIONE	0.24	LAA	9	0	0	99	85	88	0	
4A	CALLISTO 4SC	0.24	LAA	9	0	0	99	86	90	0	
5A	ME-TOO-LCHLR I	1.95	LAA	9	0	99	99	94	99	0	
	B>HAI MESOTRIONE	0.201	LAA	9							
	C ATRAZINE DF	0.75	LAA	9							
6A	LUMAX EZ 3.67S	2.96	LAA	9	0	99	99	94	98	0	
7A	ME-TOO-LCHLR I	1.56	LAA	9	0	99	99	89	95	0	
	B>HAI MESOTRIONE	0.196	LAA	9							
	C ATRAZINE DF	1.50	LAA	9							
8A	LEXAR EZ 3.7SC	3.28	LAA	9	0	99	99	94	98	0	
9A	HAI MESOTRIONE	0.047	LAA	11	0	C	C	C	C	0	
	B>COC	1.00	PMV	11							
10A	CALLISTO 4SC	0.047	LAA	11	0	C	C	C	C	0	
	B>COC	1.00	PMV	11							
11A	HAI MESOTRIONE	0.094	LAA	11	0	C	C	C	C	0	
	B>COC	1.00	PMV	11							
12A	CALLISTO 4SC	0.094	LAA	11	0	C	C	C	C	0	
	B>COC	1.00	PMV	11							
13A	HAI MESOTRIONE	0.188	LAA	11	0	C	C	C	C	0	
	B>COC	1.00	PMV	11							
14A	CALLISTO 4SC	0.188	LAA	11	0	C	C	C	C	0	
	B>COC	1.00	PMV	11							
15A	CHECK	0.00	NA	0	0	0	0	0	0	0	
16A	ACURON 3.44 ZC	2.58	LAA	9	0	99	99	95	99	0	
					LSD (0.05)	0.00	0.00	4.14	6.34	5.28	0.00
					STANDARD DEVIATION	0.00	0.00	2.00	3.10	2.58	0.00

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**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 NUM	TREATMENT COMPONENT	DOSAGE			SETFA	AMATA	PHBPU	ABUTH	ZEAMD	SETFA
		RATE	UNIT	TM	CON % 06/15/15	CON % 06/15/15	CON % 06/15/15	CON % 06/15/15	CON % 06/23/15	CON % 06/23/15
1A	HAI MESOTRIONE	0.12	LAA	9	0	99	60	90	0	0
2A	CALLISTO 4SC	0.12	LAA	9	0	93	72	91	0	0
3A	HAI MESOTRIONE	0.24	LAA	9	0	99	84	99	0	0
4A	CALLISTO 4SC	0.24	LAA	9	0	99	84	99	0	0
5A	ME-TOO-LCHLR I	1.95	LAA	9	99	99	94	99	0	99
	B»HAI MESOTRIONE	0.201	LAA	9						
	C ATRAZINE DF	0.75	LAA	9						
6A	LUMAX EZ 3.67S	2.96	LAA	9	99	96	94	99	0	99
7A	ME-TOO-LCHLR I	1.56	LAA	9	99	99	88	99	0	99
	B»HAI MESOTRIONE	0.196	LAA	9						
	C ATRAZINE DF	1.50	LAA	9						
8A	LEXAR EZ 3.7SC	3.28	LAA	9	99	99	89	99	0	99
9A	HAI MESOTRIONE	0.047	LAA	11	C	C	C	C	0	40
	B»COC	1.00	PMV	11						
10A	CALLISTO 4SC	0.047	LAA	11	C	C	C	C	0	37
	B»COC	1.00	PMV	11						
11A	HAI MESOTRIONE	0.094	LAA	11	C	C	C	C	0	68
	B»COC	1.00	PMV	11						
12A	CALLISTO 4SC	0.094	LAA	11	C	C	C	C	0	70
	B»COC	1.00	PMV	11						
13A	HAI MESOTRIONE	0.188	LAA	11	C	C	C	C	0	84
	B»COC	1.00	PMV	11						
14A	CALLISTO 4SC	0.188	LAA	11	C	C	C	C	0	82
	B»COC	1.00	PMV	11						
15A	CHECK	0.00	NA	0	0	0	0	0	0	0
16A	ACURON 3.44 ZC	2.58	LAA	9	99	98	95	99	0	99
	LSD (0.05)				0.00	4.91	3.80	4.79	0.00	8.48
	STANDARD DEVIATION				0.00	2.41	1.86	2.34	0.00	4.15

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**DESIGN:** RANDOMIZED COMPLETE BLOCK DESIGN  
**PLOT SIZE:** 10.00 FT WIDE X 30.00 FT LONG  
**PLOT AREA:** 300.00 SFT

REPS: 03

TRT NUM	TREATMENT COMPONENT	DOSAGE			AMATA	PHBPU	ABUTH	ZEAMD	SETFA	AMATA	
		RATE	UNIT	TM	CON % 06/23/15	CON % 06/23/15	CON % 06/23/15	CON % 06/29/15	CON % 06/29/15	CON % 06/29/15	
1A	HAI MESOTRIONE	0.12	LAA	9	95	43	99	0	0	83	
2A	CALLISTO 4SC	0.12	LAA	9	86	43	99	0	0	78	
3A	HAI MESOTRIONE	0.24	LAA	9	99	65	99	0	0	94	
4A	CALLISTO 4SC	0.24	LAA	9	99	70	99	0	0	97	
5A	ME-TOO-LCHLR I	1.95	LAA	9	96	63	99	0	99	97	
	B»HAI MESOTRIONE	0.201	LAA	9							
	C ATRAZINE DF	0.75	LAA	9							
6A	LUMAX EZ 3.67S	2.96	LAA	9	96	83	99	0	99	95	
7A	ME-TOO-LCHLR I	1.56	LAA	9	99	84	99	0	99	99	
	B»HAI MESOTRIONE	0.196	LAA	9							
	C ATRAZINE DF	1.50	LAA	9							
8A	LEXAR EZ 3.7SC	3.28	LAA	9	99	82	99	0	99	99	
9A	HAI MESOTRIONE	0.047	LAA	11	83	68	99	0	37	63	
	B»COC	1.00	PMV	11							
10A	CALLISTO 4SC	0.047	LAA	11	83	63	99	0	33	58	
	B»COC	1.00	PMV	11							
11A	HAI MESOTRIONE	0.094	LAA	11	91	83	99	0	57	84	
	B»COC	1.00	PMV	11							
12A	CALLISTO 4SC	0.094	LAA	11	89	85	99	0	57	86	
	B»COC	1.00	PMV	11							
13A	HAI MESOTRIONE	0.188	LAA	11	96	93	99	0	58	94	
	B»COC	1.00	PMV	11							
14A	CALLISTO 4SC	0.188	LAA	11	98	93	99	0	70	97	
	B»COC	1.00	PMV	11							
15A	CHECK	0.00	NA	0	0	0	0	0	0	0	
16A	ACURON 3.44 ZC	2.58	LAA	9	97	89	99	0	98	97	
					LSD (0.05)	17.00	7.28	0.00	0.00	17.05	14.06
					STANDARD DEVIATION	8.31	3.56	0.00	0.00	8.35	6.89

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**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 NUM	TREATMENT COMPONENT	DOSAGE			PHBPU	ABUTH	ZEAMD	SETFA	AMATA	PHBPU
		RATE	UNIT	TM	CON % 06/29/15	CON % 06/29/15	CON % 07/12/15	CON % 07/12/15	CON % 07/12/15	CON % 07/12/15
1A	HAI MESOTRIONE	0.12	LAA	9	27	99	0	0	75	17
2A	CALLISTO 4SC	0.12	LAA	9	33	99	0	0	76	17
3A	HAI MESOTRIONE	0.24	LAA	9	67	99	0	0	91	53
4A	CALLISTO 4SC	0.24	LAA	9	65	99	0	0	94	58
5A	ME-TOO-LCHLR I	1.95	LAA	9	70	99	0	99	99	57
	B»HAI MESOTRIONE	0.201	LAA	9						
	C ATRAZINE DF	0.75	LAA	9						
6A	LUMAX EZ 3.67S	2.96	LAA	9	79	99	0	99	99	72
7A	ME-TOO-LCHLR I	1.56	LAA	9	78	99	0	99	99	72
	B»HAI MESOTRIONE	0.196	LAA	9						
	C ATRAZINE DF	1.50	LAA	9						
8A	LEXAR EZ 3.7SC	3.28	LAA	9	78	99	0	99	99	75
9A	HAI MESOTRIONE	0.047	LAA	11	55	99	0	20	58	50
	B»COC	1.00	PMV	11						
10A	CALLISTO 4SC	0.047	LAA	11	57	99	0	20	53	52
	B»COC	1.00	PMV	11						
11A	HAI MESOTRIONE	0.094	LAA	11	77	99	0	55	83	74
	B»COC	1.00	PMV	11						
12A	CALLISTO 4SC	0.094	LAA	11	75	99	0	53	84	77
	B»COC	1.00	PMV	11						
13A	HAI MESOTRIONE	0.188	LAA	11	91	99	0	67	89	89
	B»COC	1.00	PMV	11						
14A	CALLISTO 4SC	0.188	LAA	11	94	99	0	75	89	90
	B»COC	1.00	PMV	11						
15A	CHECK	0.00	NA	0	0	0	0	0	0	0
16A	ACURON 3.44 ZC	2.58	LAA	9	93	99	0	97	95	91
					LSD (0.05)					
					15.87	0.00	0.00	10.95	16.78	18.71
					STANDARD DEVIATION	7.77	0.00	5.36	8.22	9.16

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**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 NUM	TREATMENT COMPONENT	DOSAGE RATE	UNIT	TM	ABUTH CON % 07/12/15
1A	HAI MESOTRIONE	0.12	LAA	9	99
2A	CALLISTO 4SC	0.12	LAA	9	99
3A	HAI MESOTRIONE	0.24	LAA	9	99
4A	CALLISTO 4SC	0.24	LAA	9	99
5A	ME-TOO-LCHLR I	1.95	LAA	9	99
	B>HAI MESOTRIONE	0.201	LAA	9	
	C ATRAZINE DF	0.75	LAA	9	
6A	LUMAX EZ 3.67S	2.96	LAA	9	99
7A	ME-TOO-LCHLR I	1.56	LAA	9	99
	B>HAI MESOTRIONE	0.196	LAA	9	
	C ATRAZINE DF	1.50	LAA	9	
8A	LEXAR EZ 3.7SC	3.28	LAA	9	99
9A	HAI MESOTRIONE	0.047	LAA	11	96
	B>COC	1.00	PMV	11	
10A	CALLISTO 4SC	0.047	LAA	11	99
	B>COC	1.00	PMV	11	
11A	HAI MESOTRIONE	0.094	LAA	11	99
	B>COC	1.00	PMV	11	
12A	CALLISTO 4SC	0.094	LAA	11	99
	B>COC	1.00	PMV	11	
13A	HAI MESOTRIONE	0.188	LAA	11	99
	B>COC	1.00	PMV	11	
14A	CALLISTO 4SC	0.188	LAA	11	99
	B>COC	1.00	PMV	11	
15A	CHECK	0.00	NA	0	0
16A	ACURON 3.44 ZC	2.58	LAA	9	99
		LSD (0.05)			2.17
		STANDARD DEVIATION			1.06

>> = SUPPLEMENTAL CHEMICAL

---,M,C,D = MISSING DATA

\* TIMING CODES

00 = --- / UNTREATED TIMING  
 09 = --- / PREEMERGENCE 05/22/2015(1)  
 11 = --- / EPOST 06/15/2015(2)

H#	CUSTOM#1	CUSTOM#2	EV.DATE	S#	TYP	SPECIE	STAGE	RAW	PRT	SYM	MTH	CNF	BASIS	C.M	CTRTR	SS	NOTE
001	ZEAMD	CON %	06/06/2015	01	P	ZEAMD		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
002	SETFA	CON %	06/06/2015	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
003	AMATA	CON %	06/06/2015	03	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
004	PHBPU	CON %	06/06/2015	05	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
005	ABUTH	CON %	06/06/2015	04	P	ABUTH		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
006	ZEAMD	CON %	06/15/2015	01	P	ZEAMD	14	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
007	SETFA	CON %	06/15/2015	02	P	SETFA	13	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
008	AMATA	CON %	06/15/2015	03	P	AMATA	19	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
009	PHBPU	CON %	06/15/2015	05	P	PHBPU	12	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
010	ABUTH	CON %	06/15/2015	04	P	ABUTH	11	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N

TITLE: HAI Mesotrione Comparison for Weed Control Systems in RR/LL Corn. R-3N

H#	CUSTOM#1	CUSTOM#2	EV.DATE	S#	TYP	SPECIE	STAGE	RAW	PRT	SYM	MTH	CNF	BASIS	C.M	CTRTR	SS	NOTE
011	ZEAMD	CON %	06/23/2015	01	P	ZEAMD		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
012	SETFA	CON %	06/23/2015	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
013	AMATA	CON %	06/23/2015	03	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
014	PHBPU	CON %	06/23/2015	05	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
015	ABUTH	CON %	06/23/2015	04	P	ABUTH		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
016	ZEAMD	CON %	06/29/2015	01	P	ZEAMD		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
017	SETFA	CON %	06/29/2015	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
018	AMATA	CON %	06/29/2015	03	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
019	PHBPU	CON %	06/29/2015	05	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
020	ABUTH	CON %	06/29/2015	04	P	ABUTH		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
021	ZEAMD	CON %	07/12/2015	01	P	ZEAMD		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
022	SETFA	CON %	07/12/2015	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
023	AMATA	CON %	07/12/2015	03	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
024	PHBPU	CON %	07/12/2015	05	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
025	ABUTH	CON %	07/12/2015	04	P	ABUTH		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N

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

01 = DKC 62-77

## \* STAGE CODE

11 = 1ST TRUE LEAF/LEAF PAIR/WHORL UNFOLDED  
12 = 2ND TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED  
13 = 3 LEAVES UNFOLDED  
14 = 4 LEAVES UNFOLDED  
19 = >8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED