

SOIL INFORMATION

TRIAL INFORMATION

TEXTURE: SIL
 PH: 6.5
 %OM: 4.0
 PREV.CROP: GLXMA - soybean;soya bean;soybean
 %RESIDUE: 0
 PLOT WIDTH: 7.5 X 29 FEET
 PLOT AREA: 217.5 FEET

DESIGN: RCB
 REPS: 4

APPL. NUMBER	01	02	UNIT
TIMINGS	09	11	
TYPE	LIQUID MI	LIQUID MI	
APPLICATION DATE	05/25/16	06/16/16	AME
TIME - BEGIN	14:30	07:30	24H
TIME - END	14:50	08:00	24H
AIR TEMPERATURE	84	76	F
% REL.HUMIDITY	41	74	
WIND DIRECTION	SOUTHWEST	NORTHWEST	
WIND SPEED	10.0	6.0	M/H
CLOUD COVER	PAR.CLOUD	CLEAR-0%	
DEW	TO BE SEL	YES	
SOIL MOISTURE	DRY/MOIST	DRY/MOIST	
SOIL CONDITION	TO BE SEL	TO BE SEL	
SOIL TEMP/DEPTH	75/4.00	78/4.00	F/IN
METHOD	SPRAY	SPRAY	
EQUIPMENT	BACKPACK/	BACKPACK/	
PROPELLANT	COMPRESSE	COMPRESSE	
PLACEMENT	BROADCAST	BROADCAST	
NOZZLE	FLATFAN	FLATFAN	
NOZZLE DESCRIPTION			
NOZZLE VOLUME	0.00	0.00	GPM
NOZZLE NUMBER	5	5	
NOZZLE SPACING	18.000	18.000	IN
SCREEN SIZE			
SCREEN SZ DESC	NA	NA	
SWATH WIDTH	7.5	7.5	FT
BOOM HEIGHT	18.0	18.0	IN
SPEED	3.00	3.00	M/H
MIX SIZE	0.420	0.420	
MIX SIZE UNIT	GAL	GAL	
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, dent corn DKC64-87 (PLANTED) 05/25/2015		---/14 6.00/8.00 388 DAP	IN
PEST *			
P, velvetleaf;velve		---/13 1.00/3.00	IN
P, tall amaranth;co		---/13 0.50/1.00	IN
P, common morning g		---/14 2.00/3.00	IN

*** CONTINUE

SPECIE AND STAGE	DEN / STG	DEN / STG	
	MIN / MAX	MIN / MAX	
PEST *			
P, giant foxtail;no		---/15 1.00/6.00	IN

* TIMING CODES

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

* STAGE CODE

13 = 3RD TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
14 = 4 LEAVES UNFOLDED
14 = 4TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
15 = 5 LEAVES UNFOLDED

TITLE: HAI -051313 Comparisons for Weed Control Systems in RR/LL Corn. M-10N
CREATED: 04/12/2016 **REVISED:** 08/29/2016 **COMPLETED:** N
PROJECT TYPE: HERBICIDE
LOCATION: Urbana **RESEARCHED BY:** UNIV. OF ILL
DESIGN: RANDOMIZED COMPLETE BLOCK DESIGN
PLOT SIZE: 7.50 FT WIDE X 29.00 FT LONG
PLOT AREA: 217.50 SFT

REPS: 04

TRT NUM	TREATMENT COMPONENT	DOSAGE			ZEAMD CON % 06/10/16	SETFA CON % 06/10/16	AMATA CON % 06/10/16	ABUTH CON % 06/10/16	PHBPU CON % 06/10/16	ZEAMD CON % 06/16/16
		RATE	UNIT	TM						
1A	HAI-051313 4.0	1.06	LAA	9	0	93	99	99	59	0
2A	HAI-051313 4.0	1.38	LAA	9	0	96	99	99	70	0
3A	HAI-051313 4.0	1.77	LAA	9	0	98	99	99	79	0
4A	HAI-051313 4.0	2.12	LAA	9	0	99	99	99	88	0
5A	ZEMAX 3.67L	1.10	LAA	9	0	95	99	99	75	0
6A	ZEMAX 3.67L	1.43	LAA	9	0	99	99	99	89	0
7A	ZEMAX 3.67L	1.84	LAA	9	0	99	99	99	93	0
8A	ZEMAX 3.67L	2.20	LAA	9	0	99	99	96	94	0
9A	HAI-051313 4.0	1.06	LAA	11	C	C	C	C	C	C
	B>ACTIVATOR 90	0.25	PMV	11						
	C>LIQUID AMS	2.50	PMV	11						
10A	HAI-051313 4.0	1.38	LAA	11	C	C	C	C	C	C
	B>ACTIVATOR 90	0.25	PMV	11						
	C>LIQUID AMS	2.50	PMV	11						
11A	HAI-051313 4.0	1.77	LAA	11	C	C	C	C	C	C
	B>ACTIVATOR 90	0.25	PMV	11						
	C>LIQUID AMS	2.50	PMV	11						
12A	HAI-051313 4.0	2.12	LAA	11	C	C	C	C	C	C
	B>ACTIVATOR 90	0.25	PMV	11						
	C>LIQUID AMS	2.50	PMV	11						
13A	ZEMAX 3.67L	1.10	LAA	11	C	C	C	C	C	C
	B>ACTIVATOR 90	0.25	PMV	11						
	C>LIQUID AMS	2.50	PMV	11						
14A	ZEMAX 3.67L	1.43	LAA	11	C	C	C	C	C	C
	B>ACTIVATOR 90	0.25	PMV	11						
	C>LIQUID AMS	2.50	PMV	11						
15A	ZEMAX 3.67L	1.84	LAA	11	C	C	C	C	C	C
	B>ACTIVATOR 90	0.25	PMV	11						
	C>LIQUID AMS	2.50	PMV	11						
16A	ZEMAX 3.67L	2.20	LAA	11	C	C	C	C	C	C
	B>ACTIVATOR 90	0.25	PMV	11						
	C>LIQUID AMS	2.50	PMV	11						
17A	CHECK	0.00	NA	0	0	0	0	0	0	0
18A	HAI-051313 4.0	1.38	LAA	11	C	C	C	C	C	C
	B ATRAZINE DF	0.50	LAA	11						
	C>ACTIVATOR 90	0.25	PMV	11						
	D>LIQUID AMS	2.50	PMV	11						
		LSD (0.05)			0.0	2.3	0.0	2.3	8.2	0.0
		STANDARD DEVIATION			0.0	1.2	0.0	1.2	4.1	0.0

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PLOT SIZE: 7.50 FT WIDE X 29.00 FT LONG
PLOT AREA: 217.50 SFT

REPS: 04

TRT NUM	TREATMENT COMPONENT	DOSAGE			SETFA	AMATA	ABUTH	PHBPU	ZEAMD	SETFA
		RATE	UNIT	TM	CON % 06/16/16	CON % 06/16/16	CON % 06/16/16	CON % 06/16/16	CON % 06/24/16	CON % 06/24/16
1A	HAI-051313 4.0	1.06	LAA	9	94	99	99	55	0	74
2A	HAI-051313 4.0	1.38	LAA	9	99	99	98	65	0	83
3A	HAI-051313 4.0	1.77	LAA	9	99	99	99	78	0	91
4A	HAI-051313 4.0	2.12	LAA	9	99	99	99	87	0	97
5A	ZEMAX 3.67L	1.10	LAA	9	98	99	99	75	0	81
6A	ZEMAX 3.67L	1.43	LAA	9	99	99	99	89	0	93
7A	ZEMAX 3.67L	1.84	LAA	9	99	99	99	91	0	97
8A	ZEMAX 3.67L	2.20	LAA	9	99	99	97	91	0	98
9A	HAI-051313 4.0	1.06	LAA	11	C	C	C	C	0	30
	B>ACTIVATOR 90	0.25	PMV	11						
	C>LIQUID AMS	2.50	PMV	11						
10A	HAI-051313 4.0	1.38	LAA	11	C	C	C	C	0	30
	B>ACTIVATOR 90	0.25	PMV	11						
	C>LIQUID AMS	2.50	PMV	11						
11A	HAI-051313 4.0	1.77	LAA	11	C	C	C	C	0	33
	B>ACTIVATOR 90	0.25	PMV	11						
	C>LIQUID AMS	2.50	PMV	11						
12A	HAI-051313 4.0	2.12	LAA	11	C	C	C	C	0	40
	B>ACTIVATOR 90	0.25	PMV	11						
	C>LIQUID AMS	2.50	PMV	11						
13A	ZEMAX 3.67L	1.10	LAA	11	C	C	C	C	0	10
	B>ACTIVATOR 90	0.25	PMV	11						
	C>LIQUID AMS	2.50	PMV	11						
14A	ZEMAX 3.67L	1.43	LAA	11	C	C	C	C	0	18
	B>ACTIVATOR 90	0.25	PMV	11						
	C>LIQUID AMS	2.50	PMV	11						
15A	ZEMAX 3.67L	1.84	LAA	11	C	C	C	C	0	30
	B>ACTIVATOR 90	0.25	PMV	11						
	C>LIQUID AMS	2.50	PMV	11						
16A	ZEMAX 3.67L	2.20	LAA	11	C	C	C	C	0	30
	B>ACTIVATOR 90	0.25	PMV	11						
	C>LIQUID AMS	2.50	PMV	11						
17A	CHECK	0.00	NA	0	0	0	0	0	0	0
18A	HAI-051313 4.0	1.38	LAA	11	C	C	C	C	0	59
	B ATRAZINE DF	0.50	LAA	11						
	C>ACTIVATOR 90	0.25	PMV	11						
	D>LIQUID AMS	2.50	PMV	11						
		LSD (0.05)			1.5	0.3	1.6	7.9	0.0	10.4
		STANDARD DEVIATION			0.7	0.2	0.8	4.0	0.0	5.2

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PLOT AREA: 217.50 SFT

REPS: 04

TRT NUM	TREATMENT COMPONENT	DOSAGE			AMATA	ABUTH	PHBPU	ZEAMD	SETFA	AMATA
		RATE	UNIT	TM	CON % 06/24/16	CON % 06/24/16	CON % 06/24/16	CON % 07/01/16	CON % 07/01/16	CON % 07/01/16
1A	HAI-051313 4.0	1.06	LAA	9	88	98	55	0	70	85
2A	HAI-051313 4.0	1.38	LAA	9	90	99	66	0	81	86
3A	HAI-051313 4.0	1.77	LAA	9	98	99	74	0	85	97
4A	HAI-051313 4.0	2.12	LAA	9	99	99	83	0	94	99
5A	ZEMAX 3.67L	1.10	LAA	9	96	99	73	0	79	94
6A	ZEMAX 3.67L	1.43	LAA	9	99	99	89	0	88	99
7A	ZEMAX 3.67L	1.84	LAA	9	99	99	88	0	96	99
8A	ZEMAX 3.67L	2.20	LAA	9	99	99	89	0	97	99
9A	HAI-051313 4.0	1.06	LAA	11	97	99	87	0	28	97
	B»ACTIVATOR 90	0.25	PMV	11						
	C»LIQUID AMS	2.50	PMV	11						
10A	HAI-051313 4.0	1.38	LAA	11	99	99	86	0	25	97
	B»ACTIVATOR 90	0.25	PMV	11						
	C»LIQUID AMS	2.50	PMV	11						
11A	HAI-051313 4.0	1.77	LAA	11	97	99	90	0	30	92
	B»ACTIVATOR 90	0.25	PMV	11						
	C»LIQUID AMS	2.50	PMV	11						
12A	HAI-051313 4.0	2.12	LAA	11	99	99	95	0	35	98
	B»ACTIVATOR 90	0.25	PMV	11						
	C»LIQUID AMS	2.50	PMV	11						
13A	ZEMAX 3.67L	1.10	LAA	11	71	97	59	0	23	76
	B»ACTIVATOR 90	0.25	PMV	11						
	C»LIQUID AMS	2.50	PMV	11						
14A	ZEMAX 3.67L	1.43	LAA	11	88	99	76	0	25	81
	B»ACTIVATOR 90	0.25	PMV	11						
	C»LIQUID AMS	2.50	PMV	11						
15A	ZEMAX 3.67L	1.84	LAA	11	94	99	84	0	30	89
	B»ACTIVATOR 90	0.25	PMV	11						
	C»LIQUID AMS	2.50	PMV	11						
16A	ZEMAX 3.67L	2.20	LAA	11	95	99	89	0	45	92
	B»ACTIVATOR 90	0.25	PMV	11						
	C»LIQUID AMS	2.50	PMV	11						
17A	CHECK	0.00	NA	0	0	0	0	0	0	0
18A	HAI-051313 4.0	1.38	LAA	11	99	99	99	0	61	99
	B ATRAZINE DF	0.50	LAA	11						
	C»ACTIVATOR 90	0.25	PMV	11						
	D»LIQUID AMS	2.50	PMV	11						
		LSD (0.05)			7.6	1.7	9.0	0.0	11.4	9.8
		STANDARD DEVIATION			3.8	0.8	4.5	0.0	5.7	4.9

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PLOT AREA: 217.50 SFT

REPS: 04

TRT NUM	TREATMENT COMPONENT	DOSAGE			ABUTH CON % 07/01/16	PHBPU CON % 07/01/16	ZEAMD CON % 07/15/16	SETFA CON % 07/15/16	AMATA CON % 07/15/16	ABUTH CON % 07/15/16
		RATE	UNIT	TM						
1A	HAI-051313 4.0	1.06	LAA	9	95	55	0	58	80	95
2A	HAI-051313 4.0	1.38	LAA	9	97	61	0	76	81	98
3A	HAI-051313 4.0	1.77	LAA	9	99	69	0	83	92	98
4A	HAI-051313 4.0	2.12	LAA	9	99	84	0	87	95	99
5A	ZEMAX 3.67L	1.10	LAA	9	99	68	0	79	86	99
6A	ZEMAX 3.67L	1.43	LAA	9	99	87	0	88	97	98
7A	ZEMAX 3.67L	1.84	LAA	9	99	89	0	94	99	99
8A	ZEMAX 3.67L	2.20	LAA	9	99	91	0	95	99	99
9A	HAI-051313 4.0	1.06	LAA	11	97	84	0	15	92	99
	B»ACTIVATOR 90	0.25	PMV	11						
	C»LIQUID AMS	2.50	PMV	11						
10A	HAI-051313 4.0	1.38	LAA	11	99	81	0	20	95	99
	B»ACTIVATOR 90	0.25	PMV	11						
	C»LIQUID AMS	2.50	PMV	11						
11A	HAI-051313 4.0	1.77	LAA	11	99	88	0	20	94	97
	B»ACTIVATOR 90	0.25	PMV	11						
	C»LIQUID AMS	2.50	PMV	11						
12A	HAI-051313 4.0	2.12	LAA	11	99	90	0	20	96	99
	B»ACTIVATOR 90	0.25	PMV	11						
	C»LIQUID AMS	2.50	PMV	11						
13A	ZEMAX 3.67L	1.10	LAA	11	97	64	0	13	75	97
	B»ACTIVATOR 90	0.25	PMV	11						
	C»LIQUID AMS	2.50	PMV	11						
14A	ZEMAX 3.67L	1.43	LAA	11	99	69	0	13	71	97
	B»ACTIVATOR 90	0.25	PMV	11						
	C»LIQUID AMS	2.50	PMV	11						
15A	ZEMAX 3.67L	1.84	LAA	11	99	78	0	30	90	96
	B»ACTIVATOR 90	0.25	PMV	11						
	C»LIQUID AMS	2.50	PMV	11						
16A	ZEMAX 3.67L	2.20	LAA	11	99	83	0	33	84	99
	B»ACTIVATOR 90	0.25	PMV	11						
	C»LIQUID AMS	2.50	PMV	11						
17A	CHECK	0.00	NA	0	0	0	0	0	0	0
18A	HAI-051313 4.0	1.38	LAA	11	99	95	0	30	99	99
	B ATRAZINE DF	0.50	LAA	11						
	C»ACTIVATOR 90	0.25	PMV	11						
	D»LIQUID AMS	2.50	PMV	11						
		LSD (0.05)			3.1	12.0	0.0	13.5	11.2	3.4
		STANDARD DEVIATION			1.5	6.0	0.0	6.7	5.6	1.7

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REPS: 04

TRT NUM	TREATMENT COMPONENT	DOSAGE			PHBPU CON % 07/15/16
		RATE	UNIT	TM	
1A	HAI-051313 4.0	1.06	LAA	9	35
2A	HAI-051313 4.0	1.38	LAA	9	50
3A	HAI-051313 4.0	1.77	LAA	9	59
4A	HAI-051313 4.0	2.12	LAA	9	70
5A	ZEMAX 3.67L	1.10	LAA	9	58
6A	ZEMAX 3.67L	1.43	LAA	9	76
7A	ZEMAX 3.67L	1.84	LAA	9	83
8A	ZEMAX 3.67L	2.20	LAA	9	85
9A	HAI-051313 4.0	1.06	LAA	11	81
	B»ACTIVATOR 90	0.25	PMV	11	
	C»LIQUID AMS	2.50	PMV	11	
10A	HAI-051313 4.0	1.38	LAA	11	74
	B»ACTIVATOR 90	0.25	PMV	11	
	C»LIQUID AMS	2.50	PMV	11	
11A	HAI-051313 4.0	1.77	LAA	11	85
	B»ACTIVATOR 90	0.25	PMV	11	
	C»LIQUID AMS	2.50	PMV	11	
12A	HAI-051313 4.0	2.12	LAA	11	84
	B»ACTIVATOR 90	0.25	PMV	11	
	C»LIQUID AMS	2.50	PMV	11	
13A	ZEMAX 3.67L	1.10	LAA	11	40
	B»ACTIVATOR 90	0.25	PMV	11	
	C»LIQUID AMS	2.50	PMV	11	
14A	ZEMAX 3.67L	1.43	LAA	11	50
	B»ACTIVATOR 90	0.25	PMV	11	
	C»LIQUID AMS	2.50	PMV	11	
15A	ZEMAX 3.67L	1.84	LAA	11	73
	B»ACTIVATOR 90	0.25	PMV	11	
	C»LIQUID AMS	2.50	PMV	11	
16A	ZEMAX 3.67L	2.20	LAA	11	69
	B»ACTIVATOR 90	0.25	PMV	11	
	C»LIQUID AMS	2.50	PMV	11	
17A	CHECK	0.00	NA	0	0
18A	HAI-051313 4.0	1.38	LAA	11	89
	B ATRAZINE DF	0.50	LAA	11	
	C»ACTIVATOR 90	0.25	PMV	11	
	D»LIQUID AMS	2.50	PMV	11	
		LSD (0.05)			14.3
		STANDARD DEVIATION			7.2

» = SUPPLEMENTAL CHEMICAL

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

* TIMING CODES

00 = --- / UNTREATED TIMING
09 = --- / PREEMERGENCE 05/25/2016(1)
11 = --- / EPOST 06/16/2016(2)

TITLE: HAI -051313 Comparisons for Weed Control Systems in RR/LL Corn. M-10N

H#	CUSTOM#1	CUSTOM#2	EV.DATE	S#	TYP	SPECI	STAGE	RAW	PRT	SYM	MTH	CNF	BASIS	C.M	CTR1	SS	NOTE
001	ZEAMD	CON %	06/10/2016	01	P	ZEAMD		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
002	SETFA	CON %	06/10/2016	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
003	AMATA	CON %	06/10/2016	03	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
004	ABUTH	CON %	06/10/2016	04	P	ABUTH		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
005	PHBPU	CON %	06/10/2016	05	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
006	ZEAMD	CON %	06/16/2016	01	P	ZEAMD	14	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
007	SETFA	CON %	06/16/2016	02	P	SETFA	15	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
008	AMATA	CON %	06/16/2016	03	P	AMATA	13	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
009	ABUTH	CON %	06/16/2016	04	P	ABUTH	13	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
010	PHBPU	CON %	06/16/2016	05	P	PHBPU	14	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
011	ZEAMD	CON %	06/24/2016	01	P	ZEAMD		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
012	SETFA	CON %	06/24/2016	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
013	AMATA	CON %	06/24/2016	03	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
014	ABUTH	CON %	06/24/2016	04	P	ABUTH		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
015	PHBPU	CON %	06/24/2016	05	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
016	ZEAMD	CON %	07/01/2016	01	P	ZEAMD		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
017	SETFA	CON %	07/01/2016	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
018	AMATA	CON %	07/01/2016	03	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
019	ABUTH	CON %	07/01/2016	04	P	ABUTH		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
020	PHBPU	CON %	07/01/2016	05	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
021	ZEAMD	CON %	07/15/2016	01	P	ZEAMD		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
022	SETFA	CON %	07/15/2016	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
023	AMATA	CON %	07/15/2016	03	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
024	ABUTH	CON %	07/15/2016	04	P	ABUTH		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
025	PHBPU	CON %	07/15/2016	05	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N

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

01 = DKC64-87

* STAGE CODE

13 = 3RD TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED

14 = 4 LEAVES UNFOLDED

14 = 4TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED

15 = 5 LEAVES UNFOLDED