

SOIL INFORMATION

TRIAL INFORMATION

TEXTURE: SIX  
 PH: 6.1  
 %OM: 5.5  
 PREV.CROP: GLXMA - soybean;soya bean;soybean  
 %RESIDUE: 0  
 PLOT WIDTH: 7.5 X 30 FEET  
 PLOT AREA: 225 FEET

DESIGN: RCB  
 REPS: 3

APPL. NUMBER	01	02	UNIT
TIMINGS	09	11	
TYPE	LIQUID MI	LIQUID MI	
APPLICATION DATE	04/20/16	05/29/16	AME
TIME - BEGIN	10:30	09:15	24H
TIME - END	10:45	10:00	24H
AIR TEMPERATURE	73	78	F
% REL.HUMIDITY	33	52	
WIND DIRECTION	SOUTH	SOUTHWEST	
WIND SPEED	10.0	8.0	M/H
CLOUD COVER	OVERCAST-	PAR.CLOUD	
DEW	TO BE SEL	NO	
SOIL MOISTURE	DRY/MOIST	MOIST/MOI	
SOIL CONDITION	TO BE SEL	TO BE SEL	
SOIL TEMP/DEPTH	60/4.00	76/4.00	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	20.0	20.0	IN
SPEED	3.00	3.00	M/H
MIX SIZE	0.330	0.330	
MIX SIZE UNIT	GAL	GAL	
SPRAY VOLUME	20.00	20.00	
SPRAY VOLUME UNIT	GPA	GPA	
PRESSURE	30.00	30.00	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 N68K-3111A (PLANTED) 04/20/2016		---/15 7.00/8.00 39 DAP	IN
PEST *			
P, tall amaranth;co		---/17 2.00/6.00	IN
P, common lambsquar		---/19 2.00/6.00	IN
P, common morning g		---/17 1.00/5.00	IN

\*\*\* CONTINUE

SPECIE AND STAGE	DEN / STG	DEN / STG	
	MIN / MAX	MIN / MAX	
PEST * P, giant foxtail;no		---/15 1.00/5.00	IN

## \* TIMING CODES

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

## \* STAGE CODE

15 = 5 LEAVES UNFOLDED  
15 = 5 LEAVES UNFOLDED  
17 = 7TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED  
19 = >8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED

**TITLE:** Bayer Corn Herbicides for Waterhemp Weed Control in RR/LL Corn. AS-400  
**CREATED:** 04/10/2016 **REVISED:** 08/25/2016 **COMPLETED:** N  
**PROJECT TYPE:** HERBICIDE  
**LOCATION:** Urbana **RESEARCHED BY:** UNIV. OF ILL  
**DESIGN:** RANDOMIZED COMPLETE BLOCK DESIGN  
**PLOT SIZE:** 7.50 FT WIDE X 30.00 FT LONG  
**PLOT AREA:** 225.00 SFT

REPS: 03

TRT NUM	TREATMENT COMPONENT	DOSAGE			ZEAMD CON % 06/07/15	SETFA CON % 06/07/15	CHEAL CON % 06/07/16	AMATA CON % 06/07/16	PHBPU CON % 06/07/16	ZEAMD CON % 06/24/16
		RATE	UNIT	TM						
1A»	BAL FLEXX 2L	0.047	LAA	9	0	98	99	99	96	0
	B ATRAZINE DF	0.50	LAA	9						
	C»LIBERTY 2.34L	0.40	LAA	11						
	D»LIQUID AMS	2.50	PMV	11						
2A»	BAL FLEXX 2L	0.047	LAA	9	0	97	99	99	92	0
	B ATRAZINE DF	0.50	LAA	9						
	C»LIBERTY 2.34L	0.53	LAA	11						
	D»LIQUID AMS	2.50	PMV	11						
3A»	BAL FLEXX 2L	0.047	LAA	9	0	99	99	99	95	0
	B ATRAZINE DF	0.50	LAA	9						
	C»LIBERTY 2.34L	0.66	LAA	11						
	D»LIQUID AMS	2.50	PMV	11						
4A»	BAL FLEXX 2L	0.047	LAA	9	0	98	99	99	97	0
	B ATRAZINE DF	0.50	LAA	9						
	C»LIBERTY 2.34L	0.40	LAA	11						
	D ATRAZINE DF	0.50	LAA	11						
	E»LIQUID AMS	2.50	PMV	11						
5A»	BAL FLEXX 2L	0.047	LAA	9	0	99	99	99	98	0
	B ATRAZINE DF	0.50	LAA	9						
	C»LIBERTY 2.34L	0.53	LAA	11						
	D ATRAZINE DF	0.50	LAA	11						
	E»LIQUID AMS	2.50	PMV	11						
6A»	BAL FLEXX 2L	0.047	LAA	9	0	99	99	99	99	0
	B ATRAZINE DF	0.50	LAA	9						
	C»LIBERTY 2.34L	0.66	LAA	11						
	D ATRAZINE DF	0.50	LAA	11						
	E»LIQUID AMS	2.50	PMV	11						
7A»	BAL FLEXX 2L	0.047	LAA	9	0	96	99	99	91	0
	B ATRAZINE DF	0.50	LAA	9						
	C»LIBERTY 2.34L	0.40	LAA	11						
	D»LAUDIS 3.5SC	0.082	LAA	11						
	E»LIQUID AMS	2.50	PMV	11						
8A»	BAL FLEXX 2L	0.047	LAA	9	0	97	99	99	96	0
	B ATRAZINE DF	0.50	LAA	9						
	C»LIBERTY 2.34L	0.53	LAA	11						
	D»LAUDIS 3.5SC	0.082	LAA	11						
	E»LIQUID AMS	2.50	PMV	11						
9A»	BAL FLEXX 2L	0.047	LAA	9	0	98	99	99	94	0
	B ATRAZINE DF	0.50	LAA	9						
	C»LIBERTY 2.34L	0.66	LAA	11						
	D»LAUDIS 3.5SC	0.082	LAA	11						
	E»LIQUID AMS	2.50	PMV	11						
10A	CHECK	0.00	NA	0	0	0	0	0	0	0
11A»	BAL FLEXX 2L	0.047	LAA	9	0	96	99	99	96	0
	B ATRAZINE DF	0.50	LAA	9						
	C»LIBERTY 2.34L	0.40	LAA	11						
	D»DIFLEXX 4L	0.50	LAA	11						
	E»LIQUID AMS	2.50	PMV	11						
12A»	BAL FLEXX 2L	0.047	LAA	9	0	90	99	99	95	0
	B ATRAZINE DF	0.50	LAA	9						
	C»LIBERTY 2.34L	0.53	LAA	11						
	D»DIFLEXX 4L	0.50	LAA	11						
	E»LIQUID AMS	2.50	PMV	11						

TITLE: Bayer Corn Herbicides for Waterhemp Weed Control in RR/LL Corn. AS-400

TRT NUM	TREATMENT COMPONENT	DOSAGE		TM	ZEAMD	SETFA	CHEAL	AMATA	PHBPU	ZEAMD
		RATE	UNIT		CON % 06/07/15	CON % 06/07/15	CON % 06/07/16	CON % 06/07/16	CON % 06/07/16	CON % 06/24/16
13A	BAL FLEXX 2L	0.047	LAA	9	0	92	99	99	96	0
	B ATRAZINE DF	0.50	LAA	9						
	C»LIBERTY 2.34L	0.66	LAA	11						
	D»DIFLEXX 4L	0.50	LAA	11						
	E»LIQUID AMS	2.50	PMV	11						
14A	BAL FLEXX 2L	0.047	LAA	9	0	98	99	99	98	0
	B ATRAZINE DF	0.50	LAA	9						
	C»LIBERTY 2.34L	0.40	LAA	11						
	D ATRAZINE DF	0.50	LAA	11						
	E»LIQUID AMS	2.50	PMV	11						
		LSD (0.05)			0.0	4.4	0.0	0.0	3.4	0.0
		STANDARD DEVIATION			0.0	2.2	0.0	0.0	1.6	0.0

**TITLE:** Bayer Corn Herbicides for Waterhemp Weed Control in RR/LL Corn. AS-400  
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**PROJECT TYPE:** HERBICIDE  
**LOCATION:** Urbana **RESEARCHED BY:** UNIV. OF ILL  
**DESIGN:** RANDOMIZED COMPLETE BLOCK DESIGN  
**PLOT SIZE:** 7.50 FT WIDE X 30.00 FT LONG  
**PLOT AREA:** 225.00 SFT

REPS: 03

TRT NUM	TREATMENT COMPONENT	DOSAGE			SETFA	CHEAL	AMATA	PHBPU	ZEAMD	SETFA
		RATE	UNIT	TM	CON % 06/24/16	CON % 06/24/16	CON % 06/24/16	CON % 06/24/16	CON % 07/12/16	CON % 07/12/16
1A»	BAL FLEXX 2L	0.047	LAA	9	86	99	96	81	0	83
	B ATRAZINE DF	0.50	LAA	9						
	C»LIBERTY 2.34L	0.40	LAA	11						
	D»LIQUID AMS	2.50	PMV	11						
2A»	BAL FLEXX 2L	0.047	LAA	9	89	99	93	77	0	83
	B ATRAZINE DF	0.50	LAA	9						
	C»LIBERTY 2.34L	0.53	LAA	11						
	D»LIQUID AMS	2.50	PMV	11						
3A»	BAL FLEXX 2L	0.047	LAA	9	94	99	99	87	0	93
	B ATRAZINE DF	0.50	LAA	9						
	C»LIBERTY 2.34L	0.66	LAA	11						
	D»LIQUID AMS	2.50	PMV	11						
4A»	BAL FLEXX 2L	0.047	LAA	9	88	99	99	88	0	90
	B ATRAZINE DF	0.50	LAA	9						
	C»LIBERTY 2.34L	0.40	LAA	11						
	D ATRAZINE DF	0.50	LAA	11						
	E»LIQUID AMS	2.50	PMV	11						
5A»	BAL FLEXX 2L	0.047	LAA	9	95	99	98	94	0	92
	B ATRAZINE DF	0.50	LAA	9						
	C»LIBERTY 2.34L	0.53	LAA	11						
	D ATRAZINE DF	0.50	LAA	11						
	E»LIQUID AMS	2.50	PMV	11						
6A»	BAL FLEXX 2L	0.047	LAA	9	94	99	99	92	0	94
	B ATRAZINE DF	0.50	LAA	9						
	C»LIBERTY 2.34L	0.66	LAA	11						
	D ATRAZINE DF	0.50	LAA	11						
	E»LIQUID AMS	2.50	PMV	11						
7A»	BAL FLEXX 2L	0.047	LAA	9	83	99	96	79	0	79
	B ATRAZINE DF	0.50	LAA	9						
	C»LIBERTY 2.34L	0.40	LAA	11						
	D»LAUDIS 3.5SC	0.082	LAA	11						
	E»LIQUID AMS	2.50	PMV	11						
8A»	BAL FLEXX 2L	0.047	LAA	9	91	99	99	91	0	88
	B ATRAZINE DF	0.50	LAA	9						
	C»LIBERTY 2.34L	0.53	LAA	11						
	D»LAUDIS 3.5SC	0.082	LAA	11						
	E»LIQUID AMS	2.50	PMV	11						
9A»	BAL FLEXX 2L	0.047	LAA	9	89	99	98	89	0	85
	B ATRAZINE DF	0.50	LAA	9						
	C»LIBERTY 2.34L	0.66	LAA	11						
	D»LAUDIS 3.5SC	0.082	LAA	11						
	E»LIQUID AMS	2.50	PMV	11						
10A	CHECK	0.00	NA	0	0	0	0	0	0	0
11A»	BAL FLEXX 2L	0.047	LAA	9	90	99	99	95	0	82
	B ATRAZINE DF	0.50	LAA	9						
	C»LIBERTY 2.34L	0.40	LAA	11						
	D»DIFLEXX 4L	0.50	LAA	11						
	E»LIQUID AMS	2.50	PMV	11						
12A»	BAL FLEXX 2L	0.047	LAA	9	81	99	98	87	0	77
	B ATRAZINE DF	0.50	LAA	9						
	C»LIBERTY 2.34L	0.53	LAA	11						
	D»DIFLEXX 4L	0.50	LAA	11						
	E»LIQUID AMS	2.50	PMV	11						

## TITLE: Bayer Corn Herbicides for Waterhemp Weed Control in RR/LL Corn. AS-400

TRT NUM	TREATMENT COMPONENT	DOSAGE			SETFA	CHEAL	AMATA	PHBPU	ZEAMD	SETFA
		RATE	UNIT	TM	CON % 06/24/16	CON % 06/24/16	CON % 06/24/16	CON % 06/24/16	CON % 07/12/16	CON % 07/12/16
13A»	BAL FLEXX 2L	0.047	LAA	9	80	99	99	80	0	73
	B ATRAZINE DF	0.50	LAA	9						
	C»LIBERTY 2.34L	0.66	LAA	11						
	D»DIFLEXX 4L	0.50	LAA	11						
	E»LIQUID AMS	2.50	PMV	11						
14A»	BAL FLEXX 2L	0.047	LAA	9	89	99	97	93	0	83
	B ATRAZINE DF	0.50	LAA	9						
	C»LIBERTY 2.34L	0.40	LAA	11						
	D ATRAZINE DF	0.50	LAA	11						
	E»LIQUID AMS	2.50	PMV	11						
		LSD (0.05)			7.7	0.0	3.7	7.2	0.0	7.8
		STANDARD DEVIATION			3.7	0.0	1.8	3.5	0.0	3.8

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**CREATED:** 04/10/2016 **REVISED:** 08/25/2016 **COMPLETED:** N  
**PROJECT TYPE:** HERBICIDE  
**LOCATION:** Urbana **RESEARCHED BY:** UNIV. OF ILL  
**DESIGN:** RANDOMIZED COMPLETE BLOCK DESIGN  
**PLOT SIZE:** 7.50 FT WIDE X 30.00 FT LONG  
**PLOT AREA:** 225.00 SFT

REPS: 03

TRT NUM	TREATMENT COMPONENT	DOSAGE			CHEAL	AMATA	PHBPU
		RATE	UNIT	TM	CON % 07/12/16	CON % 07/12/16	CON % 07/12/16
1A»	BAL FLEXX 2L	0.047	LAA	9	99	93	82
	B ATRAZINE DF	0.50	LAA	9			
	C»LIBERTY 2.34L	0.40	LAA	11			
	D»LIQUID AMS	2.50	PMV	11			
2A»	BAL FLEXX 2L	0.047	LAA	9	99	94	75
	B ATRAZINE DF	0.50	LAA	9			
	C»LIBERTY 2.34L	0.53	LAA	11			
	D»LIQUID AMS	2.50	PMV	11			
3A»	BAL FLEXX 2L	0.047	LAA	9	99	99	83
	B ATRAZINE DF	0.50	LAA	9			
	C»LIBERTY 2.34L	0.66	LAA	11			
	D»LIQUID AMS	2.50	PMV	11			
4A»	BAL FLEXX 2L	0.047	LAA	9	99	98	88
	B ATRAZINE DF	0.50	LAA	9			
	C»LIBERTY 2.34L	0.40	LAA	11			
	D ATRAZINE DF	0.50	LAA	11			
	E»LIQUID AMS	2.50	PMV	11			
5A»	BAL FLEXX 2L	0.047	LAA	9	99	94	90
	B ATRAZINE DF	0.50	LAA	9			
	C»LIBERTY 2.34L	0.53	LAA	11			
	D ATRAZINE DF	0.50	LAA	11			
	E»LIQUID AMS	2.50	PMV	11			
6A»	BAL FLEXX 2L	0.047	LAA	9	99	99	90
	B ATRAZINE DF	0.50	LAA	9			
	C»LIBERTY 2.34L	0.66	LAA	11			
	D ATRAZINE DF	0.50	LAA	11			
	E»LIQUID AMS	2.50	PMV	11			
7A»	BAL FLEXX 2L	0.047	LAA	9	99	94	68
	B ATRAZINE DF	0.50	LAA	9			
	C»LIBERTY 2.34L	0.40	LAA	11			
	D»LAUDIS 3.5SC	0.082	LAA	11			
	E»LIQUID AMS	2.50	PMV	11			
8A»	BAL FLEXX 2L	0.047	LAA	9	99	99	91
	B ATRAZINE DF	0.50	LAA	9			
	C»LIBERTY 2.34L	0.53	LAA	11			
	D»LAUDIS 3.5SC	0.082	LAA	11			
	E»LIQUID AMS	2.50	PMV	11			
9A»	BAL FLEXX 2L	0.047	LAA	9	99	94	78
	B ATRAZINE DF	0.50	LAA	9			
	C»LIBERTY 2.34L	0.66	LAA	11			
	D»LAUDIS 3.5SC	0.082	LAA	11			
	E»LIQUID AMS	2.50	PMV	11			
10A	CHECK	0.00	NA	0	0	0	0
11A»	BAL FLEXX 2L	0.047	LAA	9	99	99	87
	B ATRAZINE DF	0.50	LAA	9			
	C»LIBERTY 2.34L	0.40	LAA	11			
	D»DIFLEXX 4L	0.50	LAA	11			
	E»LIQUID AMS	2.50	PMV	11			
12A»	BAL FLEXX 2L	0.047	LAA	9	99	93	79
	B ATRAZINE DF	0.50	LAA	9			
	C»LIBERTY 2.34L	0.53	LAA	11			
	D»DIFLEXX 4L	0.50	LAA	11			
	E»LIQUID AMS	2.50	PMV	11			

TITLE: Bayer Corn Herbicides for Waterhemp Weed Control in RR/LL Corn. AS-400

TRT NUM	TREATMENT COMPONENT	DOSAGE		CHEAL	AMATA	PHBPU
		RATE	UNIT	CON % 07/12/16	CON % 07/12/16	CON % 07/12/16
13A»	BAL FLEXX 2L	0.047	LAA 9	99	99	78
	B ATRAZINE DF	0.50	LAA 9			
	C»LIBERTY 2.34L	0.66	LAA 11			
	D»DIFLEXX 4L	0.50	LAA 11			
	E»LIQUID AMS	2.50	PMV 11			
14A»	BAL FLEXX 2L	0.047	LAA 9	99	96	85
	B ATRAZINE DF	0.50	LAA 9			
	C»LIBERTY 2.34L	0.40	LAA 11			
	D ATRAZINE DF	0.50	LAA 11			
	E»LIQUID AMS	2.50	PMV 11			
LSD (0.05)				0.0	5.2	7.0
STANDARD DEVIATION				0.0	2.5	3.4

» = SUPPLEMENTAL CHEMICAL

\* TIMING CODES

00 = --- / UNTREATED TIMING  
09 = --- / PREEMERGENCE 04/20/2016(1)  
11 = --- / EPOST 05/29/2016(2)

H#	CUSTOM#1	CUSTOM#2	EV.DATE	S#	TYP	SPECI	STAGE	RAW	PRT	SYM	MTH	CNF	BASIS	C.M	CTRT	SS	NOTE
001	ZEAMD	CON %	06/07/2015	01	P	ZEAMD		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
002	SETFA	CON %	06/07/2015	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
003	CHEAL	CON %	06/07/2016	03	P	CHEAL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
004	AMATA	CON %	06/07/2016	04	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
005	PHBPU	CON %	06/07/2016	05	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
006	ZEAMD	CON %	06/24/2016	01	P	ZEAMD		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
007	SETFA	CON %	06/24/2016	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
008	CHEAL	CON %	06/24/2016	03	P	CHEAL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
009	AMATA	CON %	06/24/2016	04	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
010	PHBPU	CON %	06/24/2016	05	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
011	ZEAMD	CON %	07/12/2016	01	P	ZEAMD		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
012	SETFA	CON %	07/12/2016	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
013	CHEAL	CON %	07/12/2016	03	P	CHEAL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
014	AMATA	CON %	07/12/2016	04	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
015	PHBPU	CON %	07/12/2016	05	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N

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

01 = N68K-3111A