

SOIL INFORMATION

TEXTURE: SIX
 PH: 6.1
 %OM: 5.5
 PREV.CROP: ZEAMD - dent corn
 %RESIDUE: 0
 PLOT WIDTH: 7.5 X 30 FEET
 PLOT AREA: 225 FEET

TRIAL INFORMATION

DESIGN: RCB
 REPS: 3

APPL. NUMBER	01	02	UNIT
TIMINGS	09	11	
TYPE	LIQUID MI	LIQUID MI	
APPLICATION DATE	05/31/16	06/18/16	AME
TIME - BEGIN	11:20	07:10	24H
TIME - END	11:30	07:32	24H
AIR TEMPERATURE	77	71	F
% REL.HUMIDITY	68	47	
WIND DIRECTION	SOUTHEAST	NORTHEAST	
WIND SPEED	6.0	4.0	M/H
CLOUD COVER	PAR.CLOUD	CLEAR-0%	
DEW	TO BE SEL	NO	
SOIL MOISTURE	MOIST/MOI	DRY/MOIST	
SOIL CONDITION	TO BE SEL	TO BE SEL	
SOIL TEMP/DEPTH	72/4.00	69/4.00	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	0.260	0.260	
MIX SIZE UNIT	GAL	GAL	
SPRAY VOLUME	15.00	15.00	
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, soybean;soya bea CZ3233 LL / AG33 (PLANTED) 05/30/2016		---/14 4.00/5.00 19 DAP	IN
PEST *			
P, tall amaranth;co		---/14 0.50/2.00	IN
P, common lambsquar		---/16 0.50/2.00	IN
P, common morning g		---/12 1.00/2.00	IN

*** CONTINUE

SPECIE AND STAGE	DEN / STG	DEN / STG	
	MIN / MAX	MIN / MAX	
PEST * P, giant foxtail;no		---/13 2.00/4.00	IN
P, beach cocklebur;		---/12 1.00/3.00	IN

* TIMING CODES

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

* STAGE CODE

12 = 2ND TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
 13 = 3 LEAVES UNFOLDED
 14 = 4TH LEAF (2ND TRIFOLIATE LEAF) UNFOLDED, 3 NODES
 14 = 4TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
 16 = 6TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED

TITLE: Syngenta Residual Comparison for Weed Control in LL and RR Soy. AS-400
CREATED: 04/18/2016 **REVISED:** 01/06/2017 **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 TREATMENT NUM COMPONENT	DOSAGE RATE	UNIT	TM	GLXMA CON % 06/18/16	SETFA CON % 06/18/16	AMATA CON % 06/18/16	CHEAL CON % 06/18/16	PHBPU CON % 06/18/16	XANST CON % 06/18/16
1A BOUNDARY 6.5EC	1.42	LAA	9	0	88	96	99	47	27
B»LIBERTY 2.34L	0.53	LAA	11						
C»LIQUID AMS	2.50	PMV	11						
2A»BROADAXE XC 7L	1.37	LAA	9	0	78	98	99	77	37
B»LIBERTY 2.34L	0.53	LAA	11						
C»LIQUID AMS	2.50	PMV	11						
3A BOUNDARY 6.5EC	1.42	LAA	9	0	88	98	99	40	33
B»FLEXSTAR GT 3.	1.23	LAA	11						
C»MSO	1.00	PMV	11						
D»LIQUID AMS	2.50	PMV	11						
4A BOUNDARY 6.5EC	1.42	LAA	9	0	85	99	99	40	37
B»FLEXSTAR GT 3.	1.23	LAA	11						
C DUAL MAGNUM	0.95	LAA	11						
D»MSO	1.00	PMV	11						
E»LIQUID AMS	2.50	PMV	11						
5A»VALOR XLT 40WG	3.00	OMA	0	0	37	96	99	83	77
B VALOR 51WG	0.056	LAA	9						
C CLASSIC 25WG	0.019	LAA	9						
D»LIBERTY 2.34L	0.53	LAA	11						
E»LIQUID AMS	2.50	PMV	11						
6A»SONIC 70DF	0.175	LAA	9	0	23	98	99	78	65
B»LIBERTY 2.34L	0.53	LAA	11						
C»LIQUID AMS	2.50	PMV	11						
7A CHECK	0.00	NA	0	0	0	0	0	0	0
8A»BROADAXE XC 7L	1.37	LAA	9	0	88	98	99	75	37
B»FLEXSTAR GT 3.	1.23	LAA	11						
C»MSO	1.00	PMV	11						
D»LIQUID AMS	2.50	PMV	11						
LSD (0.05)				0.0	11.2	4.6	0.0	14.7	13.1
STANDARD DEVIATION				0.0	5.2	2.1	0.0	6.9	6.1

TITLE: Syngenta Residual Comparison for Weed Control in LL and RR Soy. AS-400
CREATED: 04/18/2016 **REVISED:** 01/06/2017 **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 TREATMENT NUM COMPONENT	DOSAGE RATE	UNIT	TM	GLXMA CON % 06/25/16	SETFA CON % 06/25/16	AMATA CON % 06/25/16	CHEAL CON % 06/25/16	PHBPU CON % 06/25/16	XANST CON % 06/25/16
1A BOUNDARY 6.5EC	1.42	LAA	9	0	98	99	99	99	99
B»LIBERTY 2.34L	0.53	LAA	11						
C»LIQUID AMS	2.50	PMV	11						
2A»BROADAXE XC 7L	1.37	LAA	9	0	99	99	99	98	97
B»LIBERTY 2.34L	0.53	LAA	11						
C»LIQUID AMS	2.50	PMV	11						
3A BOUNDARY 6.5EC	1.42	LAA	9	17	96	99	99	92	96
B»FLEXSTAR GT 3.	1.23	LAA	11						
C»MSO	1.00	PMV	11						
D»LIQUID AMS	2.50	PMV	11						
4A BOUNDARY 6.5EC	1.42	LAA	9	25	99	99	99	92	99
B»FLEXSTAR GT 3.	1.23	LAA	11						
C DUAL MAGNUM	0.95	LAA	11						
D»MSO	1.00	PMV	11						
E»LIQUID AMS	2.50	PMV	11						
5A»VALOR XLT 40WG	3.00	OMA	0	0	99	99	99	98	99
B VALOR 51WG	0.056	LAA	9						
C CLASSIC 25WG	0.019	LAA	9						
D»LIBERTY 2.34L	0.53	LAA	11						
E»LIQUID AMS	2.50	PMV	11						
6A»SONIC 70DF	0.175	LAA	9	0	97	99	99	96	98
B»LIBERTY 2.34L	0.53	LAA	11						
C»LIQUID AMS	2.50	PMV	11						
7A CHECK	0.00	NA	0	0	0	0	0	0	0
8A»BROADAXE XC 7L	1.37	LAA	9	18	99	99	99	96	98
B»FLEXSTAR GT 3.	1.23	LAA	11						
C»MSO	1.00	PMV	11						
D»LIQUID AMS	2.50	PMV	11						
LSD (0.05)				4.1	1.6	0.0	0.0	3.5	1.6
STANDARD DEVIATION				1.9	0.8	0.0	0.0	1.6	0.8

TITLE: Syngenta Residual Comparison for Weed Control in LL and RR Soy. AS-400
CREATED: 04/18/2016 **REVISED:** 01/06/2017 **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 TREATMENT NUM COMPONENT	DOSAGE RATE	UNIT	TM	GLXMA CON % 07/02/16	SETFA CON % 07/02/16	AMATA CON % 07/02/16	CHEAL CON % 07/02/16	PHBPU CON % 07/02/16	XANST CON % 07/02/16
1A BOUNDARY 6.5EC	1.42	LAA	9	0	92	98	99	87	93
B»LIBERTY 2.34L	0.53	LAA	11						
C»LIQUID AMS	2.50	PMV	11						
2A»BROADAXE XC 7L	1.37	LAA	9	0	93	96	99	91	93
B»LIBERTY 2.34L	0.53	LAA	11						
C»LIQUID AMS	2.50	PMV	11						
3A BOUNDARY 6.5EC	1.42	LAA	9	3	96	99	99	87	98
B»FLEXSTAR GT 3.	1.23	LAA	11						
C»MSO	1.00	PMV	11						
D»LIQUID AMS	2.50	PMV	11						
4A BOUNDARY 6.5EC	1.42	LAA	9	7	97	99	98	89	99
B»FLEXSTAR GT 3.	1.23	LAA	11						
C DUAL MAGNUM	0.95	LAA	11						
D»MSO	1.00	PMV	11						
E»LIQUID AMS	2.50	PMV	11						
5A»VALOR XLT 40WG	3.00	OMA	0	0	88	98	99	88	90
B VALOR 51WG	0.056	LAA	9						
C CLASSIC 25WG	0.019	LAA	9						
D»LIBERTY 2.34L	0.53	LAA	11						
E»LIQUID AMS	2.50	PMV	11						
6A»SONIC 70DF	0.175	LAA	9	0	86	95	99	93	88
B»LIBERTY 2.34L	0.53	LAA	11						
C»LIQUID AMS	2.50	PMV	11						
7A CHECK	0.00	NA	0	0	0	0	0	0	0
8A»BROADAXE XC 7L	1.37	LAA	9	4	97	99	99	94	93
B»FLEXSTAR GT 3.	1.23	LAA	11						
C»MSO	1.00	PMV	11						
D»LIQUID AMS	2.50	PMV	11						
LSD (0.05)				2.9	4.8	4.8	1.4	5.6	5.2
STANDARD DEVIATION				1.3	2.3	2.2	0.7	2.6	2.4

TITLE: Syngenta Residual Comparison for Weed Control in LL and RR Soy. AS-400
CREATED: 04/18/2016 **REVISED:** 01/06/2017 **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 TREATMENT NUM COMPONENT	DOSAGE RATE	UNIT	TM	GLXMA CON % 07/14/16	SETFA CON % 07/14/16	AMATA CON % 07/14/16	CHEAL CON % 07/14/16	PHBPU CON % 07/14/16	XANST CON % 07/14/16
1A BOUNDARY 6.5EC	1.42	LAA	9	0	86	96	99	86	79
B»LIBERTY 2.34L	0.53	LAA	11						
C»LIQUID AMS	2.50	PMV	11						
2A»BROADAXE XC 7L	1.37	LAA	9	0	92	99	99	90	82
B»LIBERTY 2.34L	0.53	LAA	11						
C»LIQUID AMS	2.50	PMV	11						
3A BOUNDARY 6.5EC	1.42	LAA	9	10	92	99	99	81	90
B»FLEXSTAR GT 3.	1.23	LAA	11						
C»MSO	1.00	PMV	11						
D»LIQUID AMS	2.50	PMV	11						
4A BOUNDARY 6.5EC	1.42	LAA	9	14	96	99	99	88	95
B»FLEXSTAR GT 3.	1.23	LAA	11						
C DUAL MAGNUM	0.95	LAA	11						
D»MSO	1.00	PMV	11						
E»LIQUID AMS	2.50	PMV	11						
5A»VALOR XLT 40WG	3.00	OMA	0	0	83	98	99	84	89
B VALOR 51WG	0.056	LAA	9						
C CLASSIC 25WG	0.019	LAA	9						
D»LIBERTY 2.34L	0.53	LAA	11						
E»LIQUID AMS	2.50	PMV	11						
6A»SONIC 70DF	0.175	LAA	9	0	81	99	99	90	94
B»LIBERTY 2.34L	0.53	LAA	11						
C»LIQUID AMS	2.50	PMV	11						
7A CHECK	0.00	NA	0	0	0	0	0	0	0
8A»BROADAXE XC 7L	1.37	LAA	9	8	96	99	99	95	94
B»FLEXSTAR GT 3.	1.23	LAA	11						
C»MSO	1.00	PMV	11						
D»LIQUID AMS	2.50	PMV	11						
LSD (0.05)				2.1	7.0	3.2	0.0	6.4	11.9
STANDARD DEVIATION				1.0	3.3	1.5	0.0	3.0	5.6

TITLE: Syngenta Residual Comparison for Weed Control in LL and RR Soy. AS-400
CREATED: 04/18/2016 **REVISED:** 01/06/2017 **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 TREATMENT NUM COMPONENT	DOSAGE RATE	UNIT	TM	YIELD BU\A 10/24/16
1A BOUNDARY 6.5EC	1.42	LAA	9	39.4
B»LIBERTY 2.34L	0.53	LAA	11	
C»LIQUID AMS	2.50	PMV	11	
2A»BROADAXE XC 7L	1.37	LAA	9	37.7
B»LIBERTY 2.34L	0.53	LAA	11	
C»LIQUID AMS	2.50	PMV	11	
3A BOUNDARY 6.5EC	1.42	LAA	9	52.3
B»FLEXSTAR GT 3.	1.23	LAA	11	
C»MSO	1.00	PMV	11	
D»LIQUID AMS	2.50	PMV	11	
4A BOUNDARY 6.5EC	1.42	LAA	9	55.2
B»FLEXSTAR GT 3.	1.23	LAA	11	
C DUAL MAGNUM	0.95	LAA	11	
D»MSO	1.00	PMV	11	
E»LIQUID AMS	2.50	PMV	11	
5A»VALOR XLT 40WG	3.00	OMA	0	55.3
B VALOR 51WG	0.056	LAA	9	
C CLASSIC 25WG	0.019	LAA	9	
D»LIBERTY 2.34L	0.53	LAA	11	
E»LIQUID AMS	2.50	PMV	11	
6A»SONIC 70DF	0.175	LAA	9	43.8
B»LIBERTY 2.34L	0.53	LAA	11	
C»LIQUID AMS	2.50	PMV	11	
7A CHECK	0.00	NA	0	2.2
8A»BROADAXE XC 7L	1.37	LAA	9	65.4
B»FLEXSTAR GT 3.	1.23	LAA	11	
C»MSO	1.00	PMV	11	
D»LIQUID AMS	2.50	PMV	11	
LSD (0.05)				16.81
STANDARD DEVIATION				7.84

» = SUPPLEMENTAL CHEMICAL

* TIMING CODES

00 = --- / UNTREATED TIMING
 09 = --- / PREEMERGENCE 05/31/2016(1)
 11 = --- / EPOST 06/18/2016(2)

H#	CUSTOM#1	CUSTOM#2	EV. DATE	S#	TYP	SPECI	STAGE	RAW	PRT	SYM	MTH	CNF	BASIS	C.M	CTRT	SS	NOTE
001	GLXMA	CON %	06/18/2016	01	P	GLXMA	14	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
002	SETFA	CON %	06/18/2016	02	P	SETFA	13	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
003	AMATA	CON %	06/18/2016	03	P	AMATA	14	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
004	CHEAL	CON %	06/18/2016	04	P	CHEAL	16	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
005	PHBPU	CON %	06/18/2016	05	P	PHBPU	12	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
006	XANST	CON %	06/18/2016	06	P	XANST	12	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
007	GLXMA	CON %	06/25/2016	01	P	GLXMA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
008	SETFA	CON %	06/25/2016	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
009	AMATA	CON %	06/25/2016	03	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
010	CHEAL	CON %	06/25/2016	04	P	CHEAL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
011	PHBPU	CON %	06/25/2016	05	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
012	XANST	CON %	06/25/2016	06	P	XANST		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
013	GLXMA	CON %	07/02/2016	01	P	GLXMA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
014	SETFA	CON %	07/02/2016	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
015	AMATA	CON %	07/02/2016	03	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
016	CHEAL	CON %	07/02/2016	04	P	CHEAL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N

TITLE: Syngenta Residual Comparison for Weed Control in LL and RR Soy. AS-400

H#	CUSTOM#1	CUSTOM#2	EV. DATE	S#	TYP	SPECI	STAGE	RAW	PRT	SYM	MTH	CNF	BASIS	C.M	CTRT	SS	NOTE
017	PHBPU	CON %	07/02/2016	05	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
018	XANST	CON %	07/02/2016	06	P	XANST		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
019	GLXMA	CON %	07/14/2016	01	P	GLXMA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
020	SETFA	CON %	07/14/2016	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
021	AMATA	CON %	07/14/2016	03	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
022	CHEAL	CON %	07/14/2016	04	P	CHEAL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
023	PHBPU	CON %	07/14/2016	05	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
024	XANST	CON %	07/14/2016	06	P	XANST		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
025	YIELD	BU\A	10/24/2016	01	P	GLXMA		RAW	ALL	YLD	BU	---	1.00 PL	NO	0001	0	N

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

01 = CZ3233 LL / AG3334 RR2

* STAGE CODE

12 = 2ND TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED

13 = 3 LEAVES UNFOLDED

14 = 4TH LEAF (2ND TRIFOLIATE LEAF) UNFOLDED, 3 NODES

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

16 = 6TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED