

SOIL INFORMATION

TRIAL INFORMATION

TEXTURE: SIL
PH: 6.4
%OM: 4.6
PREV.CROP: ZEAMD - CORN, DENT
%RESIDUE: 0
PLOT WIDTH: 7.5 X 30 FEET
PLOT AREA: 225 FEET

DESIGN: RCB
REPS: 3

APPL. NUMBER	01	02	UNIT
TIMINGS	06	12	
TYPE	LIQMIX	LIQMIX	
APPLICATION DATE	05/04/12	06/06/12	AME
AIR TEMPERATURE	72	75	F
% REL.HUMIDITY	70	32	
WIND DIRECTION	WEST	NORTHEAST	
WIND SPEED	5.0	4.0	M/H
CLOUD COVER	CLOUDY	CLEAR	
DEW	YES	NO	
SOIL MOISTURE	MOIST/MOI	DRY/MOIST	
SOIL CONDITION	---	---	
METHOD	SPRAY	SPRAY	
EQUIPMENT	SPRBAC	SPRBAC	
PROPELLANT	COMCO2	COMCO2	
PLACEMENT	BRFOSO	BRFOSO	
NOZZLE	FLATFAN	FLATFAN	
NOZZLE NUMBER	5	6	
NOZZLE SPACING	18.000	20.000	IN
SCREEN SIZE			
SCREEN SZ DESC	NA	NA	
SWATH WIDTH	7.5	10.0	FT
SPRAY VOLUME	15.00	20.00	
SPRAY VOLUME UNIT	GPA	GPA	
PRESSURE	30.00	32.00	PSI
DILUENT	WATER	WATER	
INC. DATE			AME
INC. START			24H
INC. END			24H
INC. DEPTH			IN
INC. EQUIPMENT	---	---	
	DN/SG/MMZ		
*** CROP ***			
SOYBEAN		---/14	
A 3231RR		4.00/6.00	IN
05/11/2012			
*** PEST ***			
LAMBSQUARTERS, C	---/19	---/19	
	1.00/10.0	1.00/6.00	IN
HORSEWEED / MARE	---/19	---/19	
	2.00/10.0	2.00/10.0	IN
HENBIT	---/19	---/19	
	1.00/8.00	4.00/10.0	IN
MORNINGGLORY, TA	---/11	---/15	
	0.50/1.00	1.00/3.00	IN
FOXTAIL, GIANT	---/14	---/18	
	1.00/5.00	1.00/8.00	IN
CHICKWEED, COMMO	---/19	---/19	
	1.00/6.00	4.00/8.00	IN

* TIMING CODES

06 = ----- / EPP 7DBP
12 = ----- / POST

* STAGE CODE

11 = 1ST TRUE LEAF/LEAF PAIR/WHORL UNFOLDED
14 = 4 LEAVES UNFOLDED
14 = 4TH LEAF (2ND TRIFOLIATE LEAF) UNFOLDED, 3 NODES
15 = 5TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
18 = 8 LEAVES UNFOLDED
19 = >8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED

TITLE: Helm Herbicide Systems for Weed Control in No-till Glyphosate Tol. Soybean. N-100
CREATED: 04/17/2012 **REVISED:** 10/10/2012 **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	STEME CON % 05/18/12	LAMAM CON % 05/18/12	ERICA CON % 05/18/12	CHEAL CON % 05/18/12	SETFA CON % 05/18/12	PHBPU CON % 05/18/12
1A»HELOS. PLUS AD	0.80	LAA	6	99	99	99	97	82	72
B»LIQUID AMS	2.50	PMV	6						
C»HELOS. PLUS AD	0.80	LAA	12						
D»LIQUID AMS	2.50	PMV	12						
2A»HELMQUAT 3SL	0.76	LAA	6	99	97	80	83	75	72
B»ACTIVATOR 90	0.25	PMV	6						
C»HELOS. PLUS AD	0.80	LAA	12						
D»LIQUID AMS	2.50	PMV	12						
3A»GRAMOXONE SL 2	0.76	LAA	6	99	97	76	84	75	70
B»ACTIVATOR 90	0.25	PMV	6						
C»HELOS. PLUS AD	0.80	LAA	12						
D»LIQUID AMS	2.50	PMV	12						
4A»LIBERTY 2.34L	0.53	LAA	6	99	99	86	97	82	73
B»LIQUID AMS	2.50	PMV	6						
C»HELOS. PLUS AD	0.80	LAA	12						
D»LIQUID AMS	2.50	PMV	12						
5A»LIBERTY 2.34L	0.40	LAA	6	99	99	98	99	80	78
B»RNDUP POWERMAX	0.77	LAA	6						
C»LIQUID AMS	2.50	PMV	6						
D»HELOS. PLUS AD	0.80	LAA	12						
E»LIQUID AMS	2.50	PMV	12						
6A CHECK	0.00	NA	0	0	0	0	0	0	0
	LSD (0.05)			0.00	2.00	7.59	3.41	7.36	7.79
	STANDARD DEVIATION			0.00	0.89	3.40	1.53	3.31	3.50

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REPS: 03

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1A»HELOS. PLUS AD	0.80	LAA	6	99	99	90	73	53	40
B»LIQUID AMS	2.50	PMV	6						
C»HELOS. PLUS AD	0.80	LAA	12						
D»LIQUID AMS	2.50	PMV	12						
2A»HELMQUAT 3SL	0.76	LAA	6	99	99	53	60	43	37
B»ACTIVATOR 90	0.25	PMV	6						
C»HELOS. PLUS AD	0.80	LAA	12						
D»LIQUID AMS	2.50	PMV	12						
3A»GRAMOXONE SL 2	0.76	LAA	6	99	99	53	63	40	30
B»ACTIVATOR 90	0.25	PMV	6						
C»HELOS. PLUS AD	0.80	LAA	12						
D»LIQUID AMS	2.50	PMV	12						
4A»LIBERTY 2.34L	0.53	LAA	6	99	99	78	80	47	43
B»LIQUID AMS	2.50	PMV	6						
C»HELOS. PLUS AD	0.80	LAA	12						
D»LIQUID AMS	2.50	PMV	12						
5A»LIBERTY 2.34L	0.40	LAA	6	99	99	84	84	52	47
B»RNDUP POWERMAX	0.77	LAA	6						
C»LIQUID AMS	2.50	PMV	6						
D»HELOS. PLUS AD	0.80	LAA	12						
E»LIQUID AMS	2.50	PMV	12						
6A CHECK	0.00	NA	0	0	0	0	0	0	0
LSD (0.05)				0.00	0.00	10.30	14.00	11.62	13.15
STANDARD DEVIATION				0.00	0.00	4.62	6.29	5.22	5.90

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PLOT AREA: 225.00 SFT

REPS: 03

TRT TREATMENT NUM COMPONENT	DOSAGE RATE	UNIT	TM	GLXMA CON % 06/16/12	STEME CON % 06/16/12	LAMAM CON % 06/16/12	ERICA CON % 06/16/12	CHEAL CON % 06/16/12	SETFA CON % 06/16/12
1A»HELOS. PLUS AD	0.80	LAA	6	0	99	99	99	96	99
B»LIQUID AMS	2.50	PMV	6						
C»HELOS. PLUS AD	0.80	LAA	12						
D»LIQUID AMS	2.50	PMV	12						
2A»HELMQUAT 3SL	0.76	LAA	6	0	99	99	96	92	99
B»ACTIVATOR 90	0.25	PMV	6						
C»HELOS. PLUS AD	0.80	LAA	12						
D»LIQUID AMS	2.50	PMV	12						
3A»GRAMOXONE SL 2	0.76	LAA	6	0	99	99	84	90	99
B»ACTIVATOR 90	0.25	PMV	6						
C»HELOS. PLUS AD	0.80	LAA	12						
D»LIQUID AMS	2.50	PMV	12						
4A»LIBERTY 2.34L	0.53	LAA	6	0	99	99	96	97	99
B»LIQUID AMS	2.50	PMV	6						
C»HELOS. PLUS AD	0.80	LAA	12						
D»LIQUID AMS	2.50	PMV	12						
5A»LIBERTY 2.34L	0.40	LAA	6	0	99	99	98	99	99
B»RNDUP POWERMAX	0.77	LAA	6						
C»LIQUID AMS	2.50	PMV	6						
D»HELOS. PLUS AD	0.80	LAA	12						
E»LIQUID AMS	2.50	PMV	12						
6A CHECK	0.00	NA	0	0	0	0	0	0	0
	LSD (0.05)			0.00	0.00	0.00	3.41	4.45	0.00
	STANDARD DEVIATION			0.00	0.00	0.00	1.53	2.00	0.00

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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	PHBPU CON % 06/16/12	GLXMA CON % 07/06/12	STEME CON % 07/06/12	LAMAM CON % 07/06/12	ERICA CON % 07/06/12	CHEAL CON % 07/06/12
1A»HELOS. PLUS AD	0.80	LAA	6	89	0	99	99	99	98
B»LIQUID AMS	2.50	PMV	6						
C»HELOS. PLUS AD	0.80	LAA	12						
D»LIQUID AMS	2.50	PMV	12						
2A»HELMQUAT 3SL	0.76	LAA	6	83	0	99	99	95	83
B»ACTIVATOR 90	0.25	PMV	6						
C»HELOS. PLUS AD	0.80	LAA	12						
D»LIQUID AMS	2.50	PMV	12						
3A»GRAMOXONE SL 2	0.76	LAA	6	78	0	99	99	99	92
B»ACTIVATOR 90	0.25	PMV	6						
C»HELOS. PLUS AD	0.80	LAA	12						
D»LIQUID AMS	2.50	PMV	12						
4A»LIBERTY 2.34L	0.53	LAA	6	83	0	99	99	99	93
B»LIQUID AMS	2.50	PMV	6						
C»HELOS. PLUS AD	0.80	LAA	12						
D»LIQUID AMS	2.50	PMV	12						
5A»LIBERTY 2.34L	0.40	LAA	6	91	0	99	99	99	99
B»RNDUP POWERMAX	0.77	LAA	6						
C»LIQUID AMS	2.50	PMV	6						
D»HELOS. PLUS AD	0.80	LAA	12						
E»LIQUID AMS	2.50	PMV	12						
6A CHECK	0.00	NA	0	0	0	0	0	0	0
	LSD (0.05)			6.00	0.00	0.00	0.00	3.51	10.18
	STANDARD DEVIATION			2.71	0.00	0.00	0.00	1.58	4.57

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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	SETFA CON % 07/06/12	PHBPU CON % 07/06/12
1A»HELOS. PLUS AD	0.80	LAA	6	73	82
B»LIQUID AMS	2.50	PMV	6		
C»HELOS. PLUS AD	0.80	LAA	12		
D»LIQUID AMS	2.50	PMV	12		
2A»HELMQUAT 3SL	0.76	LAA	6	78	78
B»ACTIVATOR 90	0.25	PMV	6		
C»HELOS. PLUS AD	0.80	LAA	12		
D»LIQUID AMS	2.50	PMV	12		
3A»GRAMOXONE SL 2	0.76	LAA	6	83	79
B»ACTIVATOR 90	0.25	PMV	6		
C»HELOS. PLUS AD	0.80	LAA	12		
D»LIQUID AMS	2.50	PMV	12		
4A»LIBERTY 2.34L	0.53	LAA	6	79	83
B»LIQUID AMS	2.50	PMV	6		
C»HELOS. PLUS AD	0.80	LAA	12		
D»LIQUID AMS	2.50	PMV	12		
5A»LIBERTY 2.34L	0.40	LAA	6	80	82
B»RNDUP POWERMAX	0.77	LAA	6		
C»LIQUID AMS	2.50	PMV	6		
D»HELOS. PLUS AD	0.80	LAA	12		
E»LIQUID AMS	2.50	PMV	12		
6A CHECK	0.00	NA	0	0	0
	LSD (0.05)			11.51	14.67
	STANDARD DEVIATION			5.17	6.58

» = SUPPLEMENTAL CHEMICAL

* TIMING CODES

00 = ----- / UNTREATED TIMING
06 = ----- / EPP 7DBP 05/04/2012(1)
12 = ----- / POST 06/06/2012(2)

H#	CUSTOM#1	CUSTOM#2	EV. DATE	S#	TYP	SPECIE	STAGE	RAW	PRT	SYM	MTH	CNF	BASIS	C.M	CTRT	SS	NOTE
001	STEME	CON %	05/18/2012	01	P	STEME		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
002	LAMAM	CON %	05/18/2012	02	P	LAMAM		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
003	ERICA	CON %	05/18/2012	03	P	ERICA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
004	CHEAL	CON %	05/18/2012	04	P	CHEAL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
005	SETFA	CON %	05/18/2012	05	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
006	PHBPU	CON %	05/18/2012	06	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
007	STEME	CON %	06/06/2012	01	P	STEME	19	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
008	LAMAM	CON %	06/06/2012	02	P	LAMAM	19	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
009	ERICA	CON %	06/06/2012	03	P	ERICA	19	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
010	CHEAL	CON %	06/06/2012	04	P	CHEAL	19	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
011	SETFA	CON %	06/06/2012	05	P	SETFA	18	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
012	PHBPU	CON %	06/06/2012	06	P	PHBPU	15	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
013	GLXMA	CON %	06/16/2012	07	P	GLXMA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
014	STEME	CON %	06/16/2012	01	P	STEME		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
015	LAMAM	CON %	06/16/2012	02	P	LAMAM		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
016	ERICA	CON %	06/16/2012	03	P	ERICA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
017	CHEAL	CON %	06/16/2012	04	P	CHEAL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
018	SETFA	CON %	06/16/2012	05	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
019	PHBPU	CON %	06/16/2012	06	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
020	GLXMA	CON %	07/06/2012	07	P	GLXMA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
021	STEME	CON %	07/06/2012	01	P	STEME		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
022	LAMAM	CON %	07/06/2012	02	P	LAMAM		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
023	ERICA	CON %	07/06/2012	03	P	ERICA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
024	CHEAL	CON %	07/06/2012	04	P	CHEAL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N

TITLE: Helm Herbicide Systems for Weed Control in No-till Glyphosate Tol. Soybean. N-100

H#	CUSTOM#1	CUSTOM#2	EV.DATE	S#	TYP	SPECIE	STAGE	RAW	PRT	SYM	MTH	CNF	BASIS	C.M	CTRT	SS	NOTE
025	SETFA	CON %	07/06/2012	05	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
026	PHBPU	CON %	07/06/2012	06	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N

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

07 = A 3231RR

* STAGE CODE

15 = 5TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED

18 = 8 LEAVES UNFOLDED

19 = >8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED