

## SOIL INFORMATION

## TRIAL INFORMATION

TEXTURE: SIL  
PH: 6.8  
%OM: 5.2  
PREV.CROP: GLXMA - SOYBEAN  
%RESIDUE: 0  
PLOT WIDTH: 7.5 X 33 FEET  
PLOT AREA: 247.5 FEET

DESIGN: RCB  
REPS: 3

APPL. NUMBER	01	02	UNIT
TIMINGS	11	13	
TYPE	LIQMIX	LIQMIX	
APPLICATION DATE	05/23/12	06/12/12	AME
AIR TEMPERATURE	74	78	F
% REL.HUMIDITY	35	45	
WIND DIRECTION	SOUTHEAST	NORTHWEST	
WIND SPEED	3.0	6.0	M/H
CLOUD COVER	CLEAR	CLEAR	
DEW	NO	NO	
SOIL MOISTURE	DRY/MOIST	MOIST/MOI	
SOIL CONDITION	---	---	
METHOD	SPRAY	SPRAY	
EQUIPMENT	SPRBAC	SPRBAC	
PROPELLANT	COMCO2	COMCO2	
PLACEMENT	BRFOSO	BRFOSO	
NOZZLE	FLATFAN	FLATFAN	
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
SPRAY VOLUME	15.00	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	---	---	
	DN/SG/MMZ		
*** CROP ***			
CORN, DENT	---/14	---/18	
DKC62-97	8.00/8.00	32.0/32.0	IN
04/25/2012			
*** PEST ***			
VELVETLEAF	---/13	---/18	
	2.00/4.00	4.00/8.00	IN
WATERHEMP, COMMO	---/19	---/19	
	1.00/4.00	2.00/10.0	IN
LAMBSQUARTERS, C	---/19	---/19	
	1.00/4.00	2.00/10.0	IN
MORNINGGLORY, TA	---/13	---/19	
	1.00/3.00	2.00/8.00	IN
FOXTAIL, GIANT	---/13	---/18	
	3.00/5.00	2.00/10.0	IN
COCKLEBUR, COMMO	---/12	---/18	
	2.00/5.00	2.00/10.0	IN

## \* TIMING CODES

11 = ----- / EPOST  
13 = ----- / LPOST

## \* STAGE CODE

12 = 2ND TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED  
13 = 3 LEAVES UNFOLDED  
13 = 3RD TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED  
14 = 4 LEAVES UNFOLDED  
18 = 8 LEAVES UNFOLDED  
18 = 8 LEAVES UNFOLDED  
18 = 8TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED

\* STAGE CODE

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

**TITLE:** Helm Glyphosate Formulation Comparisons in RR/LL Corn. M-17E  
**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 33.00 FT LONG  
**PLOT AREA:** 247.50 SFT

REPS: 03

TRT NUM	TREATMENT COMPONENT	DOSAGE		ZEAMD	SETFA	CHEAL	AMATA	ABUTH	XANST
		RATE	UNIT TM	CON % 06/02/12	CON % 06/02/12	CON % 06/02/12	CON % 06/02/12	CON % 06/02/12	CON % 06/02/12
1A»	HELOS. PLUS AD	0.40	LAA 11	0	94	75	75	67	80
B»	HELOS. PLUS AD	0.40	LAA 13						
2A»	GLYPHOSATE 68S	0.40	LAA 11	0	94	80	84	72	84
B»	GLYPHOSATE 68S	0.40	LAA 13						
3A»	GLYPHOSATE 450	0.40	LAA 11	0	95	73	75	63	80
B»	GLYPHOSATE 450	0.40	LAA 13						
4A»	ROUNDUP TURBO	0.40	LAA 11	0	94	78	82	70	82
B»	ROUNDUP TURBO	0.40	LAA 13						
5A»	RNDUP ULTRA MA	0.40	LAA 11	0	93	78	80	70	85
B»	RNDUP ULTRA MA	0.40	LAA 13						
6A»	GLYPHOSATE 600	0.40	LAA 11	0	94	60	70	55	72
B»	GLYPHOSATE 600	0.40	LAA 13						
7A»	GLYPHOSATE 450	0.40	LAA 11	0	97	73	77	62	81
B»	GLYPHOSATE 450	0.40	LAA 13						
8A	CHECK	0.00	NA 0	0	0	0	0	0	0
9A»	GLYPHOSATE 450	0.40	LAA 11	0	95	75	82	67	81
B»	GLYPHOSATE 450	0.40	LAA 13						
10A»	GLYPHOSATE 450	0.40	LAA 11	0	96	70	77	62	75
B»	GLYPHOSATE 450	0.40	LAA 13						
LSD (0.05)				0.00	3.51	7.46	8.18	6.24	4.41
STANDARD DEVIATION				0.00	1.67	3.55	3.90	3.00	2.10

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REPS: 03

TRT NUM	TREATMENT COMPONENT	DOSAGE		PHBPU CON % 06/02/12	ZEAMD CON % 06/12/12	SETFA CON % 06/12/12	CHEAL CON % 06/12/12	AMATA CON % 06/12/12	ABUTH CON % 06/12/12
		RATE	UNIT TM						
1A»	HELOS. PLUS AD	0.40	LAA 11	58	0	92	72	78	93
B»	HELOS. PLUS AD	0.40	LAA 13						
2A»	GLYPHOSATE 68S	0.40	LAA 11	67	0	93	81	88	97
B»	GLYPHOSATE 68S	0.40	LAA 13						
3A»	GLYPHOSATE 450	0.40	LAA 11	67	0	94	80	91	98
B»	GLYPHOSATE 450	0.40	LAA 13						
4A»	ROUNDUP TURBO	0.40	LAA 11	65	0	97	84	93	99
B»	ROUNDUP TURBO	0.40	LAA 13						
5A»	RNDUP ULTRA MA	0.40	LAA 11	70	0	94	88	91	98
B»	RNDUP ULTRA MA	0.40	LAA 13						
6A»	GLYPHOSATE 600	0.40	LAA 11	50	0	94	47	81	92
B»	GLYPHOSATE 600	0.40	LAA 13						
7A»	GLYPHOSATE 450	0.40	LAA 11	67	0	96	63	90	96
B»	GLYPHOSATE 450	0.40	LAA 13						
8A	CHECK	0.00	NA 0	0	0	0	0	0	0
9A»	GLYPHOSATE 450	0.40	LAA 11	72	0	94	67	86	96
B»	GLYPHOSATE 450	0.40	LAA 13						
10A»	GLYPHOSATE 450	0.40	LAA 11	60	0	93	63	89	95
B»	GLYPHOSATE 450	0.40	LAA 13						
LSD (0.05)				7.21	0.00	3.73	9.81	6.12	2.70
STANDARD DEVIATION				3.43	0.00	1.77	4.67	2.91	1.29

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REPS: 03

TRT NUM	TREATMENT COMPONENT	DOSAGE		XANST	PHBPU	ZEAMD	SETFA	CHEAL	AMATA
		RATE	UNIT TM	CON % 06/12/12	CON % 06/12/12	CON % 07/02/12	CON % 07/02/12	CON % 07/02/12	CON % 07/02/12
1A»	HELOS. PLUS AD	0.40	LAA 11	99	80	0	97	85	93
B»	HELOS. PLUS AD	0.40	LAA 13						
2A»	GLYPHOSATE 68S	0.40	LAA 11	99	85	0	97	93	96
B»	GLYPHOSATE 68S	0.40	LAA 13						
3A»	GLYPHOSATE 450	0.40	LAA 11	99	85	0	97	88	96
B»	GLYPHOSATE 450	0.40	LAA 13						
4A»	ROUNDUP TURBO	0.40	LAA 11	99	87	0	97	90	96
B»	ROUNDUP TURBO	0.40	LAA 13						
5A»	RNDUP ULTRA MA	0.40	LAA 11	99	90	0	97	97	98
B»	RNDUP ULTRA MA	0.40	LAA 13						
6A»	GLYPHOSATE 600	0.40	LAA 11	97	75	0	97	33	90
B»	GLYPHOSATE 600	0.40	LAA 13						
7A»	GLYPHOSATE 450	0.40	LAA 11	99	81	0	97	73	95
B»	GLYPHOSATE 450	0.40	LAA 13						
8A	CHECK	0.00	NA 0	0	0	0	0	0	0
9A»	GLYPHOSATE 450	0.40	LAA 11	99	80	0	97	91	95
B»	GLYPHOSATE 450	0.40	LAA 13						
10A»	GLYPHOSATE 450	0.40	LAA 11	99	77	0	98	83	96
B»	GLYPHOSATE 450	0.40	LAA 13						
			LSD (0.05)	1.88	5.72	0.00	1.92	7.74	2.22
			STANDARD DEVIATION	0.894	2.72	0.00	0.914	3.69	1.06

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REPS: 03

TRT	TREATMENT	DOSAGE		ABUTH	XANST	PHBPU
NUM	COMPONENT	RATE	UNIT TM	CON %	CON %	CON %
				07/02/12	07/02/12	07/02/12
1A»	HELOS. PLUS AD	0.40	LAA 11	99	99	90
B»	HELOS. PLUS AD	0.40	LAA 13			
2A»	GLYPHOSATE 68S	0.40	LAA 11	99	99	93
B»	GLYPHOSATE 68S	0.40	LAA 13			
3A»	GLYPHOSATE 450	0.40	LAA 11	99	99	91
B»	GLYPHOSATE 450	0.40	LAA 13			
4A»	ROUNDUP TURBO	0.40	LAA 11	99	99	92
B»	ROUNDUP TURBO	0.40	LAA 13			
5A»	RNDUP ULTRA MA	0.40	LAA 11	99	99	92
B»	RNDUP ULTRA MA	0.40	LAA 13			
6A»	GLYPHOSATE 600	0.40	LAA 11	99	99	88
B»	GLYPHOSATE 600	0.40	LAA 13			
7A»	GLYPHOSATE 450	0.40	LAA 11	99	99	91
B»	GLYPHOSATE 450	0.40	LAA 13			
8A	CHECK	0.00	NA 0	0	0	0
9A»	GLYPHOSATE 450	0.40	LAA 11	99	99	91
B»	GLYPHOSATE 450	0.40	LAA 13			
10A»	GLYPHOSATE 450	0.40	LAA 11	99	99	91
B»	GLYPHOSATE 450	0.40	LAA 13			
LSD (0.05)				0.00	0.00	3.36
STANDARD DEVIATION				0.00	0.00	1.60

» = SUPPLEMENTAL CHEMICAL

\* TIMING CODES

00 = ----- / UNTREATED TIMING  
 11 = ----- / EPOST 05/23/2012(1)  
 13 = ----- / LPOST 06/12/2012(2)

H#	CUSTOM#1	CUSTOM#2	EV.DATE	S#	TYP	SPECIE	STAGE	RAW	PRT	SYM	MTH	CNF	BASIS	C.M	CTR	SS	NOTE
001	ZEAMD	CON %	06/02/2012	01	P	ZEAMD		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
002	SETFA	CON %	06/02/2012	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
003	CHEAL	CON %	06/02/2012	03	P	CHEAL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
004	AMATA	CON %	06/02/2012	04	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
005	ABUTH	CON %	06/02/2012	05	P	ABUTH		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
006	XANST	CON %	06/02/2012	06	P	XANST		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
007	PHBPU	CON %	06/02/2012	07	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
008	ZEAMD	CON %	06/12/2012	01	P	ZEAMD	18	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
009	SETFA	CON %	06/12/2012	02	P	SETFA	18	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
010	CHEAL	CON %	06/12/2012	03	P	CHEAL	19	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
011	AMATA	CON %	06/12/2012	04	P	AMATA	19	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
012	ABUTH	CON %	06/12/2012	05	P	ABUTH	18	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
013	XANST	CON %	06/12/2012	06	P	XANST	18	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
014	PHBPU	CON %	06/12/2012	07	P	PHBPU	19	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
015	ZEAMD	CON %	07/02/2012	01	P	ZEAMD		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
016	SETFA	CON %	07/02/2012	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
017	CHEAL	CON %	07/02/2012	03	P	CHEAL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
018	AMATA	CON %	07/02/2012	04	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
019	ABUTH	CON %	07/02/2012	05	P	ABUTH		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
020	XANST	CON %	07/02/2012	06	P	XANST		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
021	PHBPU	CON %	07/02/2012	07	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N

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

01 = DKC62-97

\* STAGE CODE

18 = 8 LEAVES UNFOLDED  
18 = 8 LEAVES UNFOLDED  
18 = 8TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED  
19 = >8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED