

SOIL INFORMATION

TRIAL INFORMATION

TEXTURE: SIL
 PH: 6.6
 %OM: 4.7
 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	11	13	
TYPE	LIQMIX	LIQMIX	
APPLICATION DATE	06/28/13	07/11/13	AME
AIR TEMPERATURE	82	77	F
% REL.HUMIDITY	47	53	
WIND DIRECTION	NORTHWEST	NORTH	
WIND SPEED	8.0	5.0	M/H
CLOUD COVER	PARTCLDY	PARTCLDY	
DEW	NO	NO	
SOIL MOISTURE	MOIST/MOI	MOIST/MOI	
SOIL CONDITION	---	---	
METHOD	SPRAY	SPRAY	
EQUIPMENT	BACKPACK/	BACKPACK/	
PROPELLANT	COMPRESSE	COMPRESSE	
PLACEMENT	BROADCAST	BROADCAST	
NOZZLE	FLATFAN	FLATFAN	
NOZZLE DESCRIPTION			
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	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	---	---	
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	---/14	---/17	
N-74R	7.00/7.00	14.0/14.0	IN
(PLANTED) 06/05/2013	23 DAP	36 DAP	
PEST *			
P, VELVETLEAF	---/14 1.00/4.00	---/12 1.00/1.00	IN
P, WATERHEMP, COMMO	---/19 2.00/5.00	---/19 2.00/10.0	IN
P, LAMBSQUARTERS, C	---/90 1.00/3.00	---/14 0.50/1.00	IN
P, MORNINGGLORY, TA	---/15 1.00/3.00	---/16 1.00/4.00	IN
P, FOXTAIL, GIANT	---/15 2.00/6.00	---/14 1.00/4.00	IN

* TIMING CODES

11 = ----- / EPOST

*** TIMING CODES**

13 = ----- / LPOST

*** STAGE CODE**

12 = 2ND TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
14 = 4TH LEAF (2ND TRIFOLIATE LEAF) UNFOLDED, 3 NODES
14 = 4TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
14 = 4 LEAVES UNFOLDED
15 = 5 LEAVES UNFOLDED
15 = 5TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
16 = 6TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
17 = 7TH LEAF (5TH TRIFOLIATE LEAF) UNFOLDED, 6 NODES
19 = >8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
90 = SENESCENCE/ DORMANCY BEGINS

TITLE: Helm Glyphosate Formulation Comparisons in RR/LL Soybean. AS-100
CREATED: 05/03/2013 **REVISED:** 09/06/2013 **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 % 07/08/13	SETFA CON % 07/08/13	CHEAL CON % 07/08/13	AMATA CON % 07/08/13	ABUTH CON % 07/08/13	PHBPU CON % 07/08/13
1A CHECK	0.00	NA	0	0	0	0	0	0	0
2A»HELOS. PLUS AD	0.75	LAA	11	0	99	97	98	99	92
B»HELOS. PLUS AD	0.75	LAA	13						
3A»HELOS. PLUS AD	0.75	LAA	11	0	99	99	98	99	96
B»ACTIVATOR 90	0.50	PMV	11						
C»HELOS. PLUS AD	0.75	LAA	13						
D»ACTIVATOR 90	0.50	PMV	13						
4A»HELOS. PLUS AD	0.75	LAA	11	0	99	98	97	99	94
B»LIQUID AMS	2.50	PMV	11						
C»HELOS. PLUS AD	0.75	LAA	13						
D»LIQUID AMS	2.50	PMV	13						
5A»HELOSATE 75SG	0.75	LAA	11	0	99	95	96	99	90
B»HELOSATE 75SG	0.75	LAA	13						
6A»HELOSATE 75SG	0.75	LAA	11	0	99	99	97	99	94
B»ACTIVATOR 90	0.50	PMV	11						
C»HELOSATE 75SG	0.75	LAA	13						
D»ACTIVATOR 90	0.50	PMV	13						
7A»HELOSATE 75SG	0.75	LAA	11	0	99	98	98	99	94
B»LIQUID AMS	2.50	PMV	11						
C»HELOSATE 75SG	0.75	LAA	13						
D»LIQUID AMS	2.50	PMV	13						
8A»RNDUP POWERMAX	0.77	LAA	11	0	99	99	97	99	92
B»RNDUP POWERMAX	0.77	LAA	13						
9A»RNDUP POWERMAX	0.77	LAA	11	0	99	98	96	99	96
B»ACTIVATOR 90	0.50	PMV	11						
C»RNDUP POWERMAX	0.77	LAA	13						
D»ACTIVATOR 90	0.50	PMV	13						
10A»RNDUP POWERMAX	0.77	LAA	11	0	99	99	98	99	95
B»LIQUID AMS	2.50	PMV	11						
C»RNDUP POWERMAX	0.77	LAA	13						
D»LIQUID AMS	2.50	PMV	13						
11A»HELOSATE 75SG	0.69	LAA	11	0	99	98	98	99	90
B»HELOSATE 75SG	0.69	LAA	13						
12A»HELOSATE 75SG	0.69	LAA	11	0	99	99	96	99	95
B»ACTIVATOR 90	0.50	PMV	11						
C»HELOSATE 75SG	0.69	LAA	13						
D»ACTIVATOR 90	0.50	PMV	13						
13A»HELOSATE 75SG	0.69	LAA	11	0	99	98	97	99	96
B»LIQUID AMS	2.50	PMV	11						
C»HELOSATE 75SG	0.69	LAA	13						
D»LIQUID AMS	2.50	PMV	13						
14A»GLYPHOSATE 450	0.67	LAA	11	0	99	94	95	99	92
B»GLYPHOSATE 450	0.67	LAA	13						
15A»GLYPHOSATE 450	0.67	LAA	11	0	99	97	97	99	94
B»ACTIVATOR 90	0.50	PMV	11						
C»GLYPHOSATE 450	0.67	LAA	13						
D»ACTIVATOR 90	0.50	PMV	13						
16A»GLYPHOSATE 450	0.67	LAA	11	0	99	96	99	99	95
B»LIQUID AMS	2.50	PMV	11						
C»GLYPHOSATE 450	0.67	LAA	13						
D»LIQUID AMS	2.50	PMV	13						

TITLE: Helm Glyphosate Formulation Comparisons in RR/LL Soybean. AS-100							
LSD (0.05)	0.00	0.00	2.65	2.18	0.00	1.84	
STANDARD DEVIATION	0.00	0.00	1.30	1.07	0.00	0.901	

TITLE: Helm Glyphosate Formulation Comparisons in RR/LL Soybean. AS-100
CREATED: 05/03/2013 **REVISED:** 09/06/2013 **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 % 07/18/13	SETFA CON % 07/18/13	CHEAL CON % 07/18/13	AMATA CON % 07/18/13	ABUTH CON % 07/18/13	PHBPU CON % 07/18/13
1A CHECK	0.00	NA	0	0	0	0	0	0	0
2A»HELOS. PLUS AD	0.75	LAA	11	0	99	99	99	99	92
B»HELOS. PLUS AD	0.75	LAA	13						
3A»HELOS. PLUS AD	0.75	LAA	11	0	99	99	99	99	92
B»ACTIVATOR 90	0.50	PMV	11						
C»HELOS. PLUS AD	0.75	LAA	13						
D»ACTIVATOR 90	0.50	PMV	13						
4A»HELOS. PLUS AD	0.75	LAA	11	0	99	99	99	99	95
B»LIQUID AMS	2.50	PMV	11						
C»HELOS. PLUS AD	0.75	LAA	13						
D»LIQUID AMS	2.50	PMV	13						
5A»HELOSATE 75SG	0.75	LAA	11	0	99	99	99	99	92
B»HELOSATE 75SG	0.75	LAA	13						
6A»HELOSATE 75SG	0.75	LAA	11	0	99	99	99	99	93
B»ACTIVATOR 90	0.50	PMV	11						
C»HELOSATE 75SG	0.75	LAA	13						
D»ACTIVATOR 90	0.50	PMV	13						
7A»HELOSATE 75SG	0.75	LAA	11	0	99	99	99	99	95
B»LIQUID AMS	2.50	PMV	11						
C»HELOSATE 75SG	0.75	LAA	13						
D»LIQUID AMS	2.50	PMV	13						
8A»RNDUP POWERMAX	0.77	LAA	11	0	99	99	99	99	94
B»RNDUP POWERMAX	0.77	LAA	13						
9A»RNDUP POWERMAX	0.77	LAA	11	0	99	99	99	99	96
B»ACTIVATOR 90	0.50	PMV	11						
C»RNDUP POWERMAX	0.77	LAA	13						
D»ACTIVATOR 90	0.50	PMV	13						
10A»RNDUP POWERMAX	0.77	LAA	11	0	99	99	99	99	95
B»LIQUID AMS	2.50	PMV	11						
C»RNDUP POWERMAX	0.77	LAA	13						
D»LIQUID AMS	2.50	PMV	13						
11A»HELOSATE 75SG	0.69	LAA	11	0	99	99	99	99	92
B»HELOSATE 75SG	0.69	LAA	13						
12A»HELOSATE 75SG	0.69	LAA	11	0	99	99	99	99	94
B»ACTIVATOR 90	0.50	PMV	11						
C»HELOSATE 75SG	0.69	LAA	13						
D»ACTIVATOR 90	0.50	PMV	13						
13A»HELOSATE 75SG	0.69	LAA	11	0	99	99	99	99	95
B»LIQUID AMS	2.50	PMV	11						
C»HELOSATE 75SG	0.69	LAA	13						
D»LIQUID AMS	2.50	PMV	13						
14A»GLYPHOSATE 450	0.67	LAA	11	0	99	99	99	99	92
B»GLYPHOSATE 450	0.67	LAA	13						
15A»GLYPHOSATE 450	0.67	LAA	11	0	99	99	99	99	94
B»ACTIVATOR 90	0.50	PMV	11						
C»GLYPHOSATE 450	0.67	LAA	13						
D»ACTIVATOR 90	0.50	PMV	13						
16A»GLYPHOSATE 450	0.67	LAA	11	0	99	99	99	99	96
B»LIQUID AMS	2.50	PMV	11						
C»GLYPHOSATE 450	0.67	LAA	13						
D»LIQUID AMS	2.50	PMV	13						

TITLE: Helm Glyphosate Formulation Comparisons in RR/LL Soybean. AS-100

LSD (0.05)

0.00

0.00

0.00

0.00

0.00

2.57

STANDARD DEVIATION

0.00

0.00

0.00

0.00

0.00

1.26

TITLE: Helm Glyphosate Formulation Comparisons in RR/LL Soybean. AS-100
CREATED: 05/03/2013 **REVISED:** 09/06/2013 **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 % 08/01/13	SETFA CON % 08/01/13	CHEAL CON % 08/01/13	AMATA CON % 08/01/13	ABUTH CON % 08/01/13	PHBPU CON % 08/01/13
1A CHECK	0.00	NA	0	0	0	0	0	0	0
2A»HELOS. PLUS AD	0.75	LAA	11	0	99	99	99	99	96
B»HELOS. PLUS AD	0.75	LAA	13						
3A»HELOS. PLUS AD	0.75	LAA	11	0	99	99	99	99	95
B»ACTIVATOR 90	0.50	PMV	11						
C»HELOS. PLUS AD	0.75	LAA	13						
D»ACTIVATOR 90	0.50	PMV	13						
4A»HELOS. PLUS AD	0.75	LAA	11	0	99	99	99	99	96
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5A»HELOSATE 75SG	0.75	LAA	11	0	99	99	99	99	96
B»HELOSATE 75SG	0.75	LAA	13						
6A»HELOSATE 75SG	0.75	LAA	11	0	98	99	99	99	95
B»ACTIVATOR 90	0.50	PMV	11						
C»HELOSATE 75SG	0.75	LAA	13						
D»ACTIVATOR 90	0.50	PMV	13						
7A»HELOSATE 75SG	0.75	LAA	11	0	99	99	99	99	96
B»LIQUID AMS	2.50	PMV	11						
C»HELOSATE 75SG	0.75	LAA	13						
D»LIQUID AMS	2.50	PMV	13						
8A»RNDUP POWERMAX	0.77	LAA	11	0	99	99	99	99	95
B»RNDUP POWERMAX	0.77	LAA	13						
9A»RNDUP POWERMAX	0.77	LAA	11	0	99	99	99	99	96
B»ACTIVATOR 90	0.50	PMV	11						
C»RNDUP POWERMAX	0.77	LAA	13						
D»ACTIVATOR 90	0.50	PMV	13						
10A»RNDUP POWERMAX	0.77	LAA	11	0	99	99	99	99	96
B»LIQUID AMS	2.50	PMV	11						
C»RNDUP POWERMAX	0.77	LAA	13						
D»LIQUID AMS	2.50	PMV	13						
11A»HELOSATE 75SG	0.69	LAA	11	0	99	99	99	99	94
B»HELOSATE 75SG	0.69	LAA	13						
12A»HELOSATE 75SG	0.69	LAA	11	0	99	99	99	99	95
B»ACTIVATOR 90	0.50	PMV	11						
C»HELOSATE 75SG	0.69	LAA	13						
D»ACTIVATOR 90	0.50	PMV	13						
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14A»GLYPHOSATE 450	0.67	LAA	11	0	99	99	99	99	94
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16A»GLYPHOSATE 450	0.67	LAA	11	0	99	99	99	99	96
B»LIQUID AMS	2.50	PMV	11						
C»GLYPHOSATE 450	0.67	LAA	13						
D»LIQUID AMS	2.50	PMV	13						

TITLE: Helm Glyphosate Formulation Comparisons in RR/LL Soybean. AS-100

LSD (0.05)	0.00	0.481	0.00	0.00	0.00	2.67
STANDARD DEVIATION	0.00	0.236	0.00	0.00	0.00	1.31

» = SUPPLEMENTAL CHEMICAL

* TIMING CODES

00 = ----- / UNTREATED TIMING

11 = ----- / EPOST 06/28/2013(1)

13 = ----- / LPOST 07/11/2013(2)

H#	CUSTOM#1	CUSTOM#2	EV. DATE	S#	TYP	SPECIE	STAGE	RAW	PRT	SYM	MTH	CNF	BASIS	C.M	CTRT	SS	NOTE
001	GLXMA	CON %	07/08/2013	01	P	GLXMA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
002	SETFA	CON %	07/08/2013	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
003	CHEAL	CON %	07/08/2013	03	P	CHEAL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
004	AMATA	CON %	07/08/2013	04	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
005	ABUTH	CON %	07/08/2013	05	P	ABUTH		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
006	PHBPU	CON %	07/08/2013	06	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
007	GLXMA	CON %	07/18/2013	01	P	GLXMA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
008	SETFA	CON %	07/18/2013	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
009	CHEAL	CON %	07/18/2013	03	P	CHEAL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
010	AMATA	CON %	07/18/2013	04	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
011	ABUTH	CON %	07/18/2013	05	P	ABUTH		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
012	PHBPU	CON %	07/18/2013	06	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
013	GLXMA	CON %	08/01/2013	01	P	GLXMA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
014	SETFA	CON %	08/01/2013	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
015	CHEAL	CON %	08/01/2013	03	P	CHEAL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
016	AMATA	CON %	08/01/2013	04	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
017	ABUTH	CON %	08/01/2013	05	P	ABUTH		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
018	PHBPU	CON %	08/01/2013	06	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N

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

01 = N-74R