APPLICATIONS

SOIL INFORMATION

TEXTURE: SIX
PH: 6.0
%OM: 3.5
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	UNIT
TIMINGS	11	
TYPE	LIQUID MI	
APPLICATION DATE	06/24/20	AME
TIME - BEGIN	14:30	24H
TIME - END	14:41	24H
AIR TEMPERATURE	76	F
% REL.HUMIDITY	45	
WIND DIRECTION	WEST	
WIND SPEED	4.0	M/H
CLOUD COVER	PAR.CLOUD	
DEW	NO	
SOIL MOISTURE	DRY/MOIST	
SOIL CONDITION	TO BE SEL	
SOIL TEMP/DEPTH	82/4.00	F/IN
METHOD	SPRAY	
EQUIPMENT	BACKPACK/	
PROPELLANT	COMPRESSE	
PLACEMENT	BROADCAST	
NOZZLE	FLATFAN	
NOZZLE DESCRIPTION		
NOZZLE VOLUME	0.00	GPM
NOZZLE NUMBER	5	
NOZZLE SPACING	18.000	IN
SCREEN SIZE		
SCREEN SZ DESC	N/A	
SWATH WIDTH	7.5	FT
BOOM HEIGHT	20.0	IN
SPEED	3.00	M/H
MIX SIZE	0.330	
MIX SIZE UNIT	GAL	
SPRAY VOLUME	20.00	
SPRAY VOLUME UNIT	GPA	
PRESSURE	30.00	PSI
DILUENT	WATER	
INC. DATE		AME
INC. START		24H
INC. END		24H
INC. DEPTH		IN
INC. EQUIPMENT	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	
CROP *		
P, Soybean	---/13	
NK S33-D7X	5.00/7.00	IN
(PLANTED) 06/01/2020	23 DAP	
PEST *		
P, Velvetleaf	---/15	
	1.00/4.00	IN
P, Amaranth, Palmer	---/19	
	1.50/4.00	IN
P, Waterhemp, commo	---/17	
	1.00/4.00	IN

*** CONTINUE

SPECIE AND STAGE	DEN / STG MIN / MAX	
PEST *		
P, Tall morning glo	---/14 1.00/3.00	IN
P, Giant foxtail	---/14 3.00/7.00	IN

*** TIMING CODES**
11 = --- / EPOST

*** STAGE CODE**
13 = TRIFOLIOLATE LEAF ON THE 3RD NODE UNFOLDED
14 = 4TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
14 = 4 LEAVES UNFOLDED
15 = 5TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
17 = 7TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
19 = >8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED

TITLE: UPL Ultra Blazer Crop Tolerance and Weed Control in Soybean. AS-400
CREATED: 04/29/2020 **REVISED:** 10/02/2020 **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 RATE	UNIT	TM	GLXMA CON % 06/27/20	PHBPU CON % 06/27/20	AMAPA CON % 06/27/20	AMATA CON % 06/27/20	ABUTH CON % 06/27/20	SETFA CON % 06/27/20
1A	CHECK	0.00	NA	0	0	0	0	0	0	0
2A	ULTRA BLAZER	0.375	LAA	11	48	78	95	97	99	95
B»	RNDUP POWERMAX	1.125	LAA	11						
C»	ACTIVATOR 90	0.25	PMV	11						
D»	LIQUID AMS	2.50	PMV	11						
3A	ULTRA BLAZER	0.375	LAA	11	58	83	98	98	99	94
B»	RNDUP POWERMAX	1.125	LAA	11						
C»	COC	1.25	PMV	11						
D»	LIQUID AMS	2.50	PMV	11						
4A	ULTRA BLAZER	0.375	LAA	11	68	86	97	97	99	95
B»	RNDUP POWERMAX	1.125	LAA	11						
C»	MOCCASIN II PL	0.95	LAA	11						
D»	ACTIVATOR 90	0.25	PMV	11						
E»	LIQUID AMS	2.50	PMV	11						
5A	ULTRA BLAZER	0.375	LAA	11	53	87	98	97	99	87
B»	RNDUP POWERMAX	1.125	LAA	11						
C»	MOCCASIN II PL	0.95	LAA	11						
D»	COC	1.25	PMV	11						
E»	LIQUID AMS	2.50	PMV	11						
6A	ULTRA BLAZER	0.375	LAA	11	45	96	97	97	99	97
B»	RNDUP POWERMAX	1.125	LAA	11						
C»	SHADOW 3EC	0.094	LAA	11						
D»	ACTIVATOR 90	0.25	PMV	11						
E»	LIQUID AMS	2.50	PMV	11						
7A	ULTRA BLAZER	0.375	LAA	11	52	94	93	95	99	94
B»	RNDUP POWERMAX	1.125	LAA	11						
C»	SHADOW 3EC	0.094	LAA	11						
D»	COC	1.25	PMV	11						
E»	LIQUID AMS	2.50	PMV	11						
8A	ULTRA BLAZER	0.375	LAA	11	55	91	97	98	99	90
B»	RNDUP POWERMAX	1.125	LAA	11						
C»	COC	1.25	PMV	11						
D»	LIQUID AMS	2.50	PMV	11						
	LSD (0.05)				6.0	3.9	2.3	2.9	0.0	2.2
	STANDARD DEVIATION				2.8	1.8	1.1	1.4	0.0	1.0

TITLE: UPL Ultra Blazer Crop Tolerance and Weed Control in Soybean. AS-400
CREATED: 04/29/2020 **REVISED:** 10/02/2020 **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 RATE	UNIT	TM	GLXMA CON % 07/01/20	PHBPU CON % 07/01/20	AMAPA CON % 07/01/20	AMATA CON % 07/01/20	ABUTH CON % 07/01/20	SETFA CON % 07/01/20
1A	CHECK	0.00	NA	0	0	0	0	0	0	0
2A	ULTRA BLAZER	0.375	LAA	11	45	78	98	98	99	97
B»	RNDUP POWERMAX	1.125	LAA	11						
C»	ACTIVATOR 90	0.25	PMV	11						
D»	LIQUID AMS	2.50	PMV	11						
3A	ULTRA BLAZER	0.375	LAA	11	50	82	98	98	99	95
B»	RNDUP POWERMAX	1.125	LAA	11						
C»	COC	1.25	PMV	11						
D»	LIQUID AMS	2.50	PMV	11						
4A	ULTRA BLAZER	0.375	LAA	11	53	85	98	98	99	95
B»	RNDUP POWERMAX	1.125	LAA	11						
C»	MOCCASIN II PL	0.95	LAA	11						
D»	ACTIVATOR 90	0.25	PMV	11						
E»	LIQUID AMS	2.50	PMV	11						
5A	ULTRA BLAZER	0.375	LAA	11	50	85	98	98	99	91
B»	RNDUP POWERMAX	1.125	LAA	11						
C»	MOCCASIN II PL	0.95	LAA	11						
D»	COC	1.25	PMV	11						
E»	LIQUID AMS	2.50	PMV	11						
6A	ULTRA BLAZER	0.375	LAA	11	45	88	97	98	99	93
B»	RNDUP POWERMAX	1.125	LAA	11						
C»	SHADOW 3EC	0.094	LAA	11						
D»	ACTIVATOR 90	0.25	PMV	11						
E»	LIQUID AMS	2.50	PMV	11						
7A	ULTRA BLAZER	0.375	LAA	11	48	95	93	98	99	93
B»	RNDUP POWERMAX	1.125	LAA	11						
C»	SHADOW 3EC	0.094	LAA	11						
D»	COC	1.25	PMV	11						
E»	LIQUID AMS	2.50	PMV	11						
8A	ULTRA BLAZER	0.375	LAA	11	50	90	97	97	99	90
B»	RNDUP POWERMAX	1.125	LAA	11						
C»	COC	1.25	PMV	11						
D»	LIQUID AMS	2.50	PMV	11						
	LSD (0.05)				2.6	2.8	1.7	0.5	0.0	4.8
	STANDARD DEVIATION				1.2	1.3	0.8	0.2	0.0	2.2

TITLE: UPL Ultra Blazer Crop Tolerance and Weed Control in Soybean. AS-400
CREATED: 04/29/2020 **REVISED:** 10/02/2020 **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 RATE	UNIT	TM	GLXMA CON % 07/08/20	PHBPU CON % 07/08/20	AMAPA CON % 07/08/20	AMATA CON % 07/08/20	ABUTH CON % 07/08/20	SETFA CON % 07/08/20
1A	CHECK	0.00	NA	0	0	0	0	0	0	0
2A	ULTRA BLAZER	0.375	LAA	11	15	82	95	94	99	80
B»	RNDUP POWERMAX	1.125	LAA	11						
C»	ACTIVATOR 90	0.25	PMV	11						
D»	LIQUID AMS	2.50	PMV	11						
3A	ULTRA BLAZER	0.375	LAA	11	23	85	91	92	99	80
B»	RNDUP POWERMAX	1.125	LAA	11						
C»	COC	1.25	PMV	11						
D»	LIQUID AMS	2.50	PMV	11						
4A	ULTRA BLAZER	0.375	LAA	11	30	90	80	85	99	97
B»	RNDUP POWERMAX	1.125	LAA	11						
C»	MOCCASIN II PL	0.95	LAA	11						
D»	ACTIVATOR 90	0.25	PMV	11						
E»	LIQUID AMS	2.50	PMV	11						
5A	ULTRA BLAZER	0.375	LAA	11	32	90	96	98	99	96
B»	RNDUP POWERMAX	1.125	LAA	11						
C»	MOCCASIN II PL	0.95	LAA	11						
D»	COC	1.25	PMV	11						
E»	LIQUID AMS	2.50	PMV	11						
6A	ULTRA BLAZER	0.375	LAA	11	20	83	82	82	99	95
B»	RNDUP POWERMAX	1.125	LAA	11						
C»	SHADOW 3EC	0.094	LAA	11						
D»	ACTIVATOR 90	0.25	PMV	11						
E»	LIQUID AMS	2.50	PMV	11						
7A	ULTRA BLAZER	0.375	LAA	11	25	80	70	75	99	95
B»	RNDUP POWERMAX	1.125	LAA	11						
C»	SHADOW 3EC	0.094	LAA	11						
D»	COC	1.25	PMV	11						
E»	LIQUID AMS	2.50	PMV	11						
8A	ULTRA BLAZER	0.375	LAA	11	20	80	83	88	99	90
B»	RNDUP POWERMAX	1.125	LAA	11						
C»	COC	1.25	PMV	11						
D»	LIQUID AMS	2.50	PMV	11						
	LSD (0.05)				2.4	2.4	2.9	3.4	0.0	1.2
	STANDARD DEVIATION				1.1	1.1	1.4	1.6	0.0	0.6

DATA MEAN

TITLE: UPL Ultra Blazer Crop Tolerance and Weed Control in Soybean. AS-400
CREATED: 04/29/2020 **REVISED:** 10/02/2020 **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 RATE	UNIT	TM	GLXMA CON % 07/16/20	PHBPU CON % 07/16/20	AMAPA CON % 07/16/20	AMATA CON % 07/16/20	ABUTH CON % 07/16/20	SETFA CON % 07/16/20
1A	CHECK	0.00	NA	0	0	0	0	0	0	0
2A	ULTRA BLAZER	0.375	LAA	11	15	80	85	73	98	60
	B»RNDUP POWERMAX	1.125	LAA	11						
	C»ACTIVATOR 90	0.25	PMV	11						
	D»LIQUID AMS	2.50	PMV	11						
3A	ULTRA BLAZER	0.375	LAA	11	20	82	75	80	95	62
	B»RNDUP POWERMAX	1.125	LAA	11						
	C»COC	1.25	PMV	11						
	D»LIQUID AMS	2.50	PMV	11						
4A	ULTRA BLAZER	0.375	LAA	11	20	87	65	82	99	96
	B»RNDUP POWERMAX	1.125	LAA	11						
	C»MOCCASIN II PL	0.95	LAA	11						
	D»ACTIVATOR 90	0.25	PMV	11						
	E»LIQUID AMS	2.50	PMV	11						
5A	ULTRA BLAZER	0.375	LAA	11	25	90	95	95	99	98
	B»RNDUP POWERMAX	1.125	LAA	11						
	C»MOCCASIN II PL	0.95	LAA	11						
	D»COC	1.25	PMV	11						
	E»LIQUID AMS	2.50	PMV	11						
6A	ULTRA BLAZER	0.375	LAA	11	15	90	57	72	98	82
	B»RNDUP POWERMAX	1.125	LAA	11						
	C»SHADOW 3EC	0.094	LAA	11						
	D»ACTIVATOR 90	0.25	PMV	11						
	E»LIQUID AMS	2.50	PMV	11						
7A	ULTRA BLAZER	0.375	LAA	11	15	83	40	62	92	75
	B»RNDUP POWERMAX	1.125	LAA	11						
	C»SHADOW 3EC	0.094	LAA	11						
	D»COC	1.25	PMV	11						
	E»LIQUID AMS	2.50	PMV	11						
8A	ULTRA BLAZER	0.375	LAA	11	15	72	63	82	98	57
	B»RNDUP POWERMAX	1.125	LAA	11						
	C»COC	1.25	PMV	11						
	D»LIQUID AMS	2.50	PMV	11						
	LSD (0.05)				0.0	2.9	4.1	4.1	1.9	4.3
	STANDARD DEVIATION				0.0	1.4	1.9	1.9	0.9	2.0

» **= SUPPLEMENTAL CHEMICAL**

*** TIMING CODES**
00 = --- / UNTREATED TIMING
11 = --- / EPOST 06/24/2020(1)

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 %	06/27/2020	01	P	GLXMA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
002	PHBPU	CON %	06/27/2020	02	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
003	AMAPA	CON %	06/27/2020	03	P	AMAPA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
004	AMATA	CON %	06/27/2020	04	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
005	ABUTH	CON %	06/27/2020	05	P	ABUTH		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
006	SETFA	CON %	06/27/2020	06	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
007	GLXMA	CON %	07/01/2020	01	P	GLXMA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
008	PHBPU	CON %	07/01/2020	02	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
009	AMAPA	CON %	07/01/2020	03	P	AMAPA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
010	AMATA	CON %	07/01/2020	04	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
011	ABUTH	CON %	07/01/2020	05	P	ABUTH		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
012	SETFA	CON %	07/01/2020	06	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N

DATA MEAN

TITLE: UPL Ultra Blazer Crop Tolerance and Weed Control in Soybean. AS-400

H#	CUSTOM#1	CUSTOM#2	EV.DATE	S#	TYP	SPECIE	STAGE	RAW	PRT	SYM	MTH	CNF	BASIS	C.M	CTRT	SS	NOTE
013	GLXMA	CON %	07/08/2020	01	P	GLXMA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
014	PHBPU	CON %	07/08/2020	02	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
015	AMAPA	CON %	07/08/2020	03	P	AMAPA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
016	AMATA	CON %	07/08/2020	04	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
017	ABUTH	CON %	07/08/2020	05	P	ABUTH		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
018	SETFA	CON %	07/08/2020	06	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
019	GLXMA	CON %	07/16/2020	01	P	GLXMA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
020	PHBPU	CON %	07/16/2020	02	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
021	AMAPA	CON %	07/16/2020	03	P	AMAPA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
022	AMATA	CON %	07/16/2020	04	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
023	ABUTH	CON %	07/16/2020	05	P	ABUTH		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
024	SETFA	CON %	07/16/2020	06	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N

*** SPECIES COMMON NAME - VARIETY/SPECIE INFO (IF APPLICABLE)**
01 = NK S33-D7X