APPLICATIONS

SOIL INFORMATION

TEXTURE: N/A
PH: 6.1
%OM: 3.5
PREV.CROP: GLXMA - Soybean
%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	06/12/20	06/24/20	AME
TIME - BEGIN	16:00	14:25	24H
TIME - END	16:20	14:40	24H
AIR TEMPERATURE	91	80	F
% REL.HUMIDITY	23	47	
WIND DIRECTION	NORTH	NORTHWEST	
WIND SPEED	2.0	3.0	M/H
CLOUD COVER	CLEAR-0%	PAR.CLOUD	
DEW	TO BE SEL	NO	
SOIL MOISTURE	DRY/MOIST	MOIST/MOI	
SOIL CONDITION	TO BE SEL	TO BE SEL	
SOIL TEMP/DEPTH	84/4.00	74/4.00	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	N/A	N/A	
SWATH WIDTH	7.5	7.5	FT
BOOM HEIGHT	20.0	20.0	IN
SPEED	3.00	3.00	M/H
MIX SIZE	0.330	0.330	
MIX SIZE UNIT	GAL	GAL	
SPRAY VOLUME	20.00	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	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, Dent corn		---/12	
DKC62-52		5.00/5.00	IN
(PLANTED) 06/12/2020		12 DAP	
PEST *			
P, Waterhemp, commo		---/11	
		0.25/1.00	IN
P, Tall morning glo		---/10	
		0.50/1.50	IN
P, Common cocklebur		---/10	
		0.50/2.00	IN

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

*** STAGE CODE**
10 = 1ST LEAF EMERGED; COTYLEDONS UNFOLDED
11 = 1ST TRUE LEAF/LEAF PAIR/WHORL UNFOLDED
12 = 2 LEAVES UNFOLDED

TITLE: Belchim BCP1016H, Tough 5EC and Shieldex for Control of Suspect Multiple-Resistant Waterhemp. MF-1700
CREATED: 04/27/2020 **REVISED:** 10/02/2020 **COMPLETED:** N
PROJECT TYPE: HERBICIDE
LOCATION: URBANA **RESEARCHED BY:**
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	ZEAMD CON % 07/01/20	PHBPU CON % 07/01/20	XANST CON % 07/01/20	AMATA CON % 07/01/20	ZEAMD CON % 07/08/20	PHBPU CON % 07/08/20
1A	»DUAL II MAGNUM	1.33	PMA	9	0	0	0	0	0	0
2A	»DUAL II MAGNUM	1.33	PMA	9	2	94	85	95	1	85
B	»RNDUP POWERMAX	32.00	ZMA	11						
C	»SHIELDEX 3.33S	1.35	ZMA	11						
D	»LIQUID AMS	2.50	PMV	11						
3A	»DUAL II MAGNUM	1.33	PMA	9	2	96	90	89	2	88
B	»RNDUP POWERMAX	32.00	ZMA	11						
C	»TOUGH 5EC	8.00	ZMA	11						
D	»LIQUID AMS	2.50	PMV	11						
4A	»DUAL II MAGNUM	1.33	PMA	9	2	94	88	94	3	85
B	»RNDUP POWERMAX	32.00	ZMA	11						
C	»SHIELDEX 3.33S	1.35	ZMA	11						
D	»TOUGH 5EC	8.00	ZMA	11						
E	»LIQUID AMS	2.50	PMV	11						
5A	»DUAL II MAGNUM	1.33	PMA	9	1	98	97	98	1	95
B	»RNDUP POWERMAX	32.00	ZMA	11						
C	»CALLISTO 4SC	3.00	ZMA	11						
D	»LIQUID AMS	2.50	PMV	11						
6A	»DUAL II MAGNUM	1.33	PMA	9	2	98	91	98	1	95
B	»RNDUP POWERMAX	32.00	ZMA	11						
C	»CALLISTO 4SC	3.00	ZMA	11						
D	»TOUGH 5EC	8.00	ZMA	11						
E	»LIQUID AMS	2.50	PMV	11						
7A	»DUAL II MAGNUM	1.33	PMA	9	2	97	92	98	2	94
B	»RNDUP POWERMAX	32.00	ZMA	11						
C	»BCP1016H	16.00	ZMA	11						
D	»LIQUID AMS	2.50	PMV	11						
8A	»DUAL II MAGNUM	1.33	PMA	9	3	98	96	99	4	97
B	»RNDUP POWERMAX	32.00	ZMA	11						
C	»CALLISTO 4SC	3.00	ZMA	11						
D	AATREX 4L	2.40	PMA	11						
E	»TOUGH 5EC	8.00	ZMA	11						
F	»LIQUID AMS	2.50	PMV	11						
9A	»DUAL II MAGNUM	1.33	PMA	9	2	98	97	99	2	96
B	»RNDUP POWERMAX	32.00	ZMA	11						
C	AATREX 4L	2.40	PMA	11						
D	»BCP1016H	16.00	ZMA	11						
E	»LIQUID AMS	2.50	PMV	11						
10A	»DUAL II MAGNUM	1.33	PMA	9	1	98	95	99	2	95
B	»RNDUP POWERMAX	32.00	ZMA	11						
C	AATREX 4L	2.40	PMA	11						
D	»SHIELDEX 3.33S	1.35	ZMA	11						
E	»TOUGH 5EC	8.00	ZMA	11						
F	»LIQUID AMS	2.50	PMV	11						
	LSD (0.05)				0.8	1.8	8.4	2.8	0.4	3.1
	STANDARD DEVIATION				0.4	0.8	4.0	1.3	0.2	1.5

TITLE: Belchim BCP1016H, Tough 5EC and Shieldex for Control of Suspect Multiple-Resistant Waterhemp. MF-1700
CREATED: 04/27/2020 **REVISED:** 10/02/2020 **COMPLETED:** N
PROJECT TYPE: HERBICIDE
LOCATION: URBANA **RESEARCHED BY:**
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	XANST CON % 07/08/20	AMATA CON % 07/08/20	ZEAMD CON % 07/22/20	PHBPU CON % 07/22/20	XANST CON % 07/22/20	AMATA CON % 07/22/20
1A	DUAL II MAGNUM	1.33	PMA	9	0	0	0	0	0	0
2A	DUAL II MAGNUM	1.33	PMA	9	77	91	0	78	67	88
B	RNDUP POWERMAX	32.00	ZMA	11						
C	SHIELDEX 3.33S	1.35	ZMA	11						
D	LIQUID AMS	2.50	PMV	11						
3A	DUAL II MAGNUM	1.33	PMA	9	83	82	0	85	70	80
B	RNDUP POWERMAX	32.00	ZMA	11						
C	TOUGH 5EC	8.00	ZMA	11						
D	LIQUID AMS	2.50	PMV	11						
4A	DUAL II MAGNUM	1.33	PMA	9	80	83	0	67	60	68
B	RNDUP POWERMAX	32.00	ZMA	11						
C	SHIELDEX 3.33S	1.35	ZMA	11						
D	TOUGH 5EC	8.00	ZMA	11						
E	LIQUID AMS	2.50	PMV	11						
5A	DUAL II MAGNUM	1.33	PMA	9	93	93	0	92	92	94
B	RNDUP POWERMAX	32.00	ZMA	11						
C	CALLISTO 4SC	3.00	ZMA	11						
D	LIQUID AMS	2.50	PMV	11						
6A	DUAL II MAGNUM	1.33	PMA	9	87	95	0	94	82	96
B	RNDUP POWERMAX	32.00	ZMA	11						
C	CALLISTO 4SC	3.00	ZMA	11						
D	TOUGH 5EC	8.00	ZMA	11						
E	LIQUID AMS	2.50	PMV	11						
7A	DUAL II MAGNUM	1.33	PMA	9	82	95	0	92	83	92
B	RNDUP POWERMAX	32.00	ZMA	11						
C	BCP1016H	16.00	ZMA	11						
D	LIQUID AMS	2.50	PMV	11						
8A	DUAL II MAGNUM	1.33	PMA	9	94	99	0	95	88	98
B	RNDUP POWERMAX	32.00	ZMA	11						
C	CALLISTO 4SC	3.00	ZMA	11						
D	AATREX 4L	2.40	PMA	11						
E	TOUGH 5EC	8.00	ZMA	11						
F	LIQUID AMS	2.50	PMV	11						
9A	DUAL II MAGNUM	1.33	PMA	9	95	99	0	96	89	98
B	RNDUP POWERMAX	32.00	ZMA	11						
C	AATREX 4L	2.40	PMA	11						
D	BCP1016H	16.00	ZMA	11						
E	LIQUID AMS	2.50	PMV	11						
10A	DUAL II MAGNUM	1.33	PMA	9	93	99	0	93	85	98
B	RNDUP POWERMAX	32.00	ZMA	11						
C	AATREX 4L	2.40	PMA	11						
D	SHIELDEX 3.33S	1.35	ZMA	11						
E	TOUGH 5EC	8.00	ZMA	11						
F	LIQUID AMS	2.50	PMV	11						
	LSD (0.05)				10.0	4.1	0.0	5.8	12.5	8.6
	STANDARD DEVIATION				4.7	1.9	0.0	2.8	5.9	4.1

DATA MEAN

TITLE: Belchim BCP1016H, Tough 5EC and Shieldex for Control of Suspect Multiple-Resistant Waterhemp. MF-1700
CREATED: 04/27/2020 **REVISED:** 10/02/2020 **COMPLETED:** N
PROJECT TYPE: HERBICIDE
LOCATION: URBANA **RESEARCHED BY:**
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	ZEAMD CON % 08/05/20	PHBPU CON % 08/05/20	XANST CON % 08/05/20	AMATA CON % 08/05/20
1A	»DUAL II MAGNUM	1.33	PMA	9	0	0	0	0
2A	»DUAL II MAGNUM	1.33	PMA	9	0	68	57	77
B	»RNDUP POWERMAX	32.00	ZMA	11				
C	»SHIELDEX 3.33S	1.35	ZMA	11				
D	»LIQUID AMS	2.50	PMV	11				
3A	»DUAL II MAGNUM	1.33	PMA	9	0	75	65	65
B	»RNDUP POWERMAX	32.00	ZMA	11				
C	»TOUGH 5EC	8.00	ZMA	11				
D	»LIQUID AMS	2.50	PMV	11				
4A	»DUAL II MAGNUM	1.33	PMA	9	0	58	53	50
B	»RNDUP POWERMAX	32.00	ZMA	11				
C	»SHIELDEX 3.33S	1.35	ZMA	11				
D	»TOUGH 5EC	8.00	ZMA	11				
E	»LIQUID AMS	2.50	PMV	11				
5A	»DUAL II MAGNUM	1.33	PMA	9	0	90	92	93
B	»RNDUP POWERMAX	32.00	ZMA	11				
C	»CALLISTO 4SC	3.00	ZMA	11				
D	»LIQUID AMS	2.50	PMV	11				
6A	»DUAL II MAGNUM	1.33	PMA	9	0	92	80	96
B	»RNDUP POWERMAX	32.00	ZMA	11				
C	»CALLISTO 4SC	3.00	ZMA	11				
D	»TOUGH 5EC	8.00	ZMA	11				
E	»LIQUID AMS	2.50	PMV	11				
7A	»DUAL II MAGNUM	1.33	PMA	9	0	90	73	93
B	»RNDUP POWERMAX	32.00	ZMA	11				
C	»BCP1016H	16.00	ZMA	11				
D	»LIQUID AMS	2.50	PMV	11				
8A	»DUAL II MAGNUM	1.33	PMA	9	0	93	86	98
B	»RNDUP POWERMAX	32.00	ZMA	11				
C	»CALLISTO 4SC	3.00	ZMA	11				
D	AATREX 4L	2.40	PMA	11				
E	»TOUGH 5EC	8.00	ZMA	11				
F	»LIQUID AMS	2.50	PMV	11				
9A	»DUAL II MAGNUM	1.33	PMA	9	0	95	88	98
B	»RNDUP POWERMAX	32.00	ZMA	11				
C	AATREX 4L	2.40	PMA	11				
D	»BCP1016H	16.00	ZMA	11				
E	»LIQUID AMS	2.50	PMV	11				
10A	»DUAL II MAGNUM	1.33	PMA	9	0	88	75	95
B	»RNDUP POWERMAX	32.00	ZMA	11				
C	AATREX 4L	2.40	PMA	11				
D	»SHIELDEX 3.33S	1.35	ZMA	11				
E	»TOUGH 5EC	8.00	ZMA	11				
F	»LIQUID AMS	2.50	PMV	11				
	LSD (0.05)				0.0	6.7	10.1	6.2
	STANDARD DEVIATION				0.0	3.2	4.8	3.0

» **= SUPPLEMENTAL CHEMICAL**

*** TIMING CODES**
09 = --- / PREEMERGENCE 06/12/2020(1)
11 = --- / EPOST 06/24/2020(2)

H#	CUSTOM#1	CUSTOM#2	EV.DATE	S#	TYP	SPECIE	STAGE	RAW	PRT	SYM	MTH	CNF	BASIS	C.M	CTRT	SS	NOTE
001	ZEAMD	CON %	07/01/2020	01	P	ZEAMD		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N

DATA MEAN

TITLE: Belchim BCP1016H, Tough 5EC and Shieldex for Control of Suspect Multiple-Resistant Waterhemp. MF-1700

H#	CUSTOM#1	CUSTOM#2	EV.DATE	S#	TYP	SPECIE	STAGE	RAW	PRT	SYM	MTH	CNF	BASIS	C.M	CTRT	SS	NOTE
002	PHBPU	CON %	07/01/2020	02	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
003	XANST	CON %	07/01/2020	03	P	XANST		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
004	AMATA	CON %	07/01/2020	04	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
005	ZEAMD	CON %	07/08/2020	01	P	ZEAMD		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
006	PHBPU	CON %	07/08/2020	02	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
007	XANST	CON %	07/08/2020	03	P	XANST		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
008	AMATA	CON %	07/08/2020	04	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
009	ZEAMD	CON %	07/22/2020	01	P	ZEAMD		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
010	PHBPU	CON %	07/22/2020	02	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
011	XANST	CON %	07/22/2020	03	P	XANST		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
012	AMATA	CON %	07/22/2020	04	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
013	ZEAMD	CON %	08/05/2020	01	P	ZEAMD		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
014	PHBPU	CON %	08/05/2020	02	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
015	XANST	CON %	08/05/2020	03	P	XANST		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
016	AMATA	CON %	08/05/2020	04	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N

*** SPECIES COMMON NAME - VARIETY/SPECIE INFO (IF APPLICABLE)**
01 = DKC62-52