APPLICATIONS

SOIL INFORMATION

TEXTURE: SIL
PH: 6.4
%OM: 4.8
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	06/03/19	07/02/19	AME
TIME - BEGIN	13:35	08:55	24H
TIME - END	13:55	09:20	24H
AIR TEMPERATURE	81	84	F
% REL.HUMIDITY	31	70	
WIND DIRECTION	NORTH	WEST	
WIND SPEED	1.0	4.0	M/H
CLOUD COVER	OVERCAST-	CLEAR-0%	
DEW	NO	NO	
SOIL MOISTURE	DRY/MOIST	MOIST/MOI	
SOIL CONDITION	TO BE SEL	TO BE SEL	
SOIL TEMP/DEPTH	78/4.00	78/4.00	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		---/16	
DKC55-20		16.0/16.0	IN
(PLANTED) 06/03/2019		29 DAP	
PEST *			
P, Amaranth, Palmer		---/19	
		1.00/13.0	IN

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

*** STAGE CODE**
16 = 6 LEAVES UNFOLDED
19 = >8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED

TITLE: Belchim Tough 5EC for Control of Resistant Palmer Amaranth. VC-2
CREATED: 04/11/2019 **REVISED:** 08/20/2019 **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	ZEAMD CON % 07/09/19	ZEAMD CON % 07/16/19	ZEAMD CON % 07/30/19	ZEAMD CON % 08/13/19	AMAPA CON % 07/09/19	AMAPA CON % 07/16/19
1A	CHECK	0.00	NA	0	0	0	0	0	0	0
2A	»DUAL II MAGNUM	1.27	LAA	9	0	0	0	0	91	86
B	»RNDUP POWERMAX	1.125	LAA	11						
C	ATRAZINE DF	1.20	LAA	11						
D	»LIQUID AMS	2.50	PMV	11						
3A	»DUAL II MAGNUM	1.27	LAA	9	0	0	0	0	87	82
B	»RNDUP POWERMAX	1.125	LAA	11						
C	»TOUGH 5EC	0.3125	LAA	11						
D	»LIQUID AMS	2.50	PMV	11						
4A	»DUAL II MAGNUM	1.27	LAA	9	0	0	0	0	97	93
B	»RNDUP POWERMAX	1.125	LAA	11						
C	ATRAZINE DF	1.20	LAA	11						
D	»TOUGH 5EC	0.3125	LAA	11						
E	»LIQUID AMS	2.50	PMV	11						
5A	»DUAL II MAGNUM	1.27	LAA	9	0	0	0	0	85	80
B	»RNDUP POWERMAX	1.125	LAA	11						
C	CALLISTO 4SC	0.09375	LAA	11						
D	»LIQUID AMS	2.50	PMV	11						
6A	»DUAL II MAGNUM	1.27	LAA	9	0	0	0	0	83	78
B	»RNDUP POWERMAX	1.125	LAA	11						
C	CALLISTO 4SC	0.09375	LAA	11						
D	»TOUGH 5EC	0.3125	LAA	11						
E	»LIQUID AMS	2.50	PMV	11						
7A	»DUAL II MAGNUM	1.27	LAA	9	0	0	0	0	99	99
B	»RNDUP POWERMAX	1.125	LAA	11						
C	CALLISTO 4SC	0.09375	LAA	11						
D	ATRAZINE DF	1.20	LAA	11						
E	»TOUGH 5EC	0.3125	LAA	11						
F	»LIQUID AMS	2.50	PMV	11						
8A	»DUAL II MAGNUM	1.27	LAA	9	0	0	0	0	88	83
B	»RNDUP POWERMAX	1.125	LAA	11						
C	»BCP1312	0.035	LAA	11						
D	»LIQUID AMS	2.50	PMV	11						
9A	»DUAL II MAGNUM	1.27	LAA	9	0	0	0	0	92	90
B	»RNDUP POWERMAX	1.125	LAA	11						
C	»BCP1312	0.035	LAA	11						
D	»TOUGH 5EC	0.3125	LAA	11						
E	»LIQUID AMS	2.50	PMV	11						
10A	»DUAL II MAGNUM	1.27	LAA	9	0	0	0	0	53	18
	LSD (0.05)				0.0	0.0	0.0	0.0	5.6	6.9
	STANDARD DEVIATION				0.0	0.0	0.0	0.0	2.7	3.3

DATA MEAN

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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	AMAPA CON % 07/30/19	AMAPA CON % 08/13/19
1A	CHECK	0.00	NA	0	0	0
2A	»DUAL II MAGNUM	1.27	LAA	9	82	78
B	»RNDUP POWERMAX	1.125	LAA	11		
C	ATRAZINE DF	1.20	LAA	11		
D	»LIQUID AMS	2.50	PMV	11		
3A	»DUAL II MAGNUM	1.27	LAA	9	77	68
B	»RNDUP POWERMAX	1.125	LAA	11		
C	»TOUGH 5EC	0.3125	LAA	11		
D	»LIQUID AMS	2.50	PMV	11		
4A	»DUAL II MAGNUM	1.27	LAA	9	87	80
B	»RNDUP POWERMAX	1.125	LAA	11		
C	ATRAZINE DF	1.20	LAA	11		
D	»TOUGH 5EC	0.3125	LAA	11		
E	»LIQUID AMS	2.50	PMV	11		
5A	»DUAL II MAGNUM	1.27	LAA	9	75	70
B	»RNDUP POWERMAX	1.125	LAA	11		
C	CALLISTO 4SC	0.09375	LAA	11		
D	»LIQUID AMS	2.50	PMV	11		
6A	»DUAL II MAGNUM	1.27	LAA	9	73	68
B	»RNDUP POWERMAX	1.125	LAA	11		
C	CALLISTO 4SC	0.09375	LAA	11		
D	»TOUGH 5EC	0.3125	LAA	11		
E	»LIQUID AMS	2.50	PMV	11		
7A	»DUAL II MAGNUM	1.27	LAA	9	98	93
B	»RNDUP POWERMAX	1.125	LAA	11		
C	CALLISTO 4SC	0.09375	LAA	11		
D	ATRAZINE DF	1.20	LAA	11		
E	»TOUGH 5EC	0.3125	LAA	11		
F	»LIQUID AMS	2.50	PMV	11		
8A	»DUAL II MAGNUM	1.27	LAA	9	78	73
B	»RNDUP POWERMAX	1.125	LAA	11		
C	»BCP1312	0.035	LAA	11		
D	»LIQUID AMS	2.50	PMV	11		
9A	»DUAL II MAGNUM	1.27	LAA	9	85	77
B	»RNDUP POWERMAX	1.125	LAA	11		
C	»BCP1312	0.035	LAA	11		
D	»TOUGH 5EC	0.3125	LAA	11		
E	»LIQUID AMS	2.50	PMV	11		
10A	»DUAL II MAGNUM	1.27	LAA	9	10	5
			LSD (0.05)		8.0	8.5
			STANDARD DEVIATION		3.8	4.0

» **= SUPPLEMENTAL CHEMICAL**

*** TIMING CODES**
00 = --- / UNTREATED TIMING
09 = --- / PREEMERGENCE 06/03/2019(1)
11 = --- / EPOST 07/02/2019(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 %	07/09/2019	01	P	ZEAMD		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
003	ZEAMD	CON %	07/16/2019	01	P	ZEAMD		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
005	ZEAMD	CON %	07/30/2019	01	P	ZEAMD		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N

DATA MEAN

TITLE: Belchim Tough 5EC for Control of Resistant Palmer Amaranth. VC-2

H#	CUSTOM#1	CUSTOM#2	EV.DATE	S#	TYP	SPECIE	STAGE	RAW	PRT	SYM	MTH	CNF	BASIS	C.M	CTRT	SS	NOTE
007	ZEAMD	CON %	08/13/2019	01	P	ZEAMD		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
002	AMAPA	CON %	07/09/2019	02	P	AMAPA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
004	AMAPA	CON %	07/16/2019	02	P	AMAPA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
006	AMAPA	CON %	07/30/2019	02	P	AMAPA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
008	AMAPA	CON %	08/13/2019	02	P	AMAPA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N

*** SPECIES COMMON NAME - VARIETY/SPECIE INFO (IF APPLICABLE)**
01 = DKC55-20