APPLICATIONS

SOIL INFORMATION

TEXTURE: SIL
PH: 5.7
%OM: 3.2
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	02	03	UNIT
TIMINGS	05	09	12	
TYPE	LIQUID MI	LIQUID MI	LIQUID MI	
APPLICATION DATE	05/01/20	05/27/20	06/17/20	AME
TIME - BEGIN	14:35	09:45	09:45	24H
TIME - END	14:50	10:00	10:30	24H
AIR TEMPERATURE	75	77	84	F
% REL.HUMIDITY	40	72	49	
WIND DIRECTION	SOUTHEAST	SOUTHEAST	SOUTHWEST	
WIND SPEED	5.8	5.0	1.0	M/H
CLOUD COVER	CLEAR-0%	PAR.CLOUD	CLEAR-0%	
DEW	NO	NO	NO	
SOIL MOISTURE	MOIST/MOI	DRY/MOIST	DRY/ DRY	
SOIL CONDITION	TO BE SEL	TO BE SEL	TO BE SEL	
SOIL TEMP/DEPTH	67/4.00	70/4.00	77/4.00	F/IN
METHOD	SPRAY	SPRAY	SPRAY	
EQUIPMENT	BACKPACK/	BACKPACK/	BACKPACK/	
PROPELLANT	COMPRESSE	COMPRESSE	COMPRESSE	
PLACEMENT	BROADCAST	BROADCAST	BROADCAST	
NOZZLE	FLATFAN	FLATFAN	FLATFAN	
NOZZLE DESCRIPTION				
NOZZLE VOLUME	0.00	0.00	0.00	GPM
NOZZLE NUMBER	5	5	5	
NOZZLE SPACING	18.000	18.000	18.000	IN
SCREEN SIZE				
SCREEN SZ DESC	N/A	N/A	N/A	
SWATH WIDTH	7.5	7.5	7.5	FT
BOOM HEIGHT	20.0	20.0	20.0	IN
SPEED	3.00	3.00	3.00	M/H
MIX SIZE	0.330	0.330	0.330	
MIX SIZE UNIT	GAL	GAL	GAL	
SPRAY VOLUME	20.00	20.00	20.00	
SPRAY VOLUME UNIT	GPA	GPA	GPA	
PRESSURE	30.00	30.00	30.00	PSI
DILUENT	WATER	WATER	WATER	
INC. DATE				AME
INC. START				24H
INC. END				24H
INC. DEPTH				IN
INC. EQUIPMENT	TO BE SEL	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	DEN / STG MIN / MAX	
CROP *				
P, Soybean		---/01	---/13	
MERSCHMAN HARRIS		/	/	IN
(PLANTED) 05/26/2020		1 DAP	22 DAP	
PEST *				
P, Ragweed, common	---/14 1.00/3.00	---/15 3.00/5.00	---/16 3.00/5.00	IN
P, Lambsquarters, c	---/18 0.50/1.50	---/19 2.00/6.00		IN
P, Mare's tail / Ho	---/19 2.00/3.00	---/19 2.00/8.00		IN

*** CONTINUE

SPECIE AND STAGE	DEN / STG MIN / MAX	DEN / STG MIN / MAX	DEN / STG MIN / MAX	
PEST *				
P, Henbit deadnettl	---/19 3.00/7.00	---/19 4.00/10.0		IN
P, Tall morning glo		---/11 0.50/1.50	---/14 2.00/4.00	IN
P, Giant foxtail		---/13 1.00/3.00	---/17 2.00/7.00	IN
P, Common chickweed	---/19 2.00/4.00	---/19 2.00/4.00		IN

*** TIMING CODES**
05 = --- / EPP 15DBP
09 = --- / PREEMERGENCE
12 = --- / POST

*** STAGE CODE**
01 = BEGINNING OF SEED IMBIBITION
11 = 1ST TRUE LEAF/LEAF PAIR/WHORL UNFOLDED
13 = 3 LEAVES UNFOLDED
13 = TRIFOLIOLATE LEAF ON THE 3RD NODE UNFOLDED
14 = 4TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
15 = 5TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
16 = 6TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
17 = 7 LEAVES UNFOLDED
18 = 8TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
19 = >8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED

DATA MEAN

TITLE: Panther MTZ for Weed Control in No-till Liberty-Link Soybean. N-200
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	LAMAM CON % 05/26/20	STEME CON % 05/26/20	CHEAL CON % 05/26/20	AMBEL CON % 05/26/20	PHBPU CON % 05/26/20	ERICA CON % 05/26/20
1A	CHECK	0.00	NA	0	0	0	0	0	0	0
2A	»NUP-19070	11.00	ZMA	5	50	38	96	92	88	93
B	»ACTIVATOR 90	0.25	PMV	5						
C	»PANTHER MTZ 3.	12.00	ZMA	9						
D	»CREDIT XTREME	32.00	ZMA	9						
E	»MSO	1.00	PMV	9						
F	»CHEETAH 2.34L	29.00	ZMA	12						
G	»LIQUID AMS	2.50	PMV	12						
3A	»NUP-19070	11.00	ZMA	5	99	99	99	99	92	99
B	»PANTHER MTZ 3.	15.00	ZMA	5						
C	»CREDIT XTREME	32.00	ZMA	5						
D	»MSO	1.00	PMV	5						
E	»CHEETAH 2.34L	29.00	ZMA	12						
F	»LIQUID AMS	2.50	PMV	12						
4A	»NUP-19070	11.00	ZMA	5	30	27	94	80	77	98
B	»ACTIVATOR 90	0.25	PMV	5						
C	»PANTHER PRO 4.	12.00	ZMA	9						
D	»CREDIT XTREME	32.00	ZMA	9						
E	»MSO	1.00	PMV	9						
F	»CHEETAH 2.34L	29.00	ZMA	12						
G	»LIQUID AMS	2.50	PMV	12						
5A	»NUP-19070	11.00	ZMA	5	99	99	99	99	98	98
B	»PANTHER PRO 4.	15.00	ZMA	5						
C	»CREDIT XTREME	32.00	ZMA	5						
D	»MSO	1.00	PMV	5						
E	»CHEETAH 2.34L	29.00	ZMA	12						
F	»LIQUID AMS	2.50	PMV	12						
6A	»NUP-19070	11.00	ZMA	5	32	27	96	78	75	91
B	»ACTIVATOR 90	0.25	PMV	5						
C	»AUTHORITY MTZ	14.00	OMA	9						
D	»CREDIT XTREME	32.00	ZMA	9						
E	»MSO	1.00	PMV	9						
F	»CHEETAH 2.34L	29.00	ZMA	12						
G	»LIQUID AMS	2.50	PMV	12						
	LSD (0.05)				5.7	10.2	8.0	9.5	10.7	14.1
	STANDARD DEVIATION				2.5	4.6	3.6	4.3	4.8	6.3

TITLE: Panther MTZ for Weed Control in No-till Liberty-Link Soybean. N-200
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	SETFA CON % 05/26/20	GLXMA CON % 06/16/20	LAMAM CON % 06/16/20	STEME CON % 06/16/20	CHEAL CON % 06/16/20	AMBEL CON % 06/16/20
1A	CHECK	0.00	NA	0	0	0	0	0	0	0
2A	»NUP-19070	11.00	ZMA	5	83	3	99	98	99	93
B	»ACTIVATOR 90	0.25	PMV	5						
C	»PANTHER MTZ 3.	12.00	ZMA	9						
D	»CREDIT XTREME	32.00	ZMA	9						
E	»MSO	1.00	PMV	9						
F	»CHEETAH 2.34L	29.00	ZMA	12						
G	»LIQUID AMS	2.50	PMV	12						
3A	»NUP-19070	11.00	ZMA	5	99	0	99	99	99	88
B	»PANTHER MTZ 3.	15.00	ZMA	5						
C	»CREDIT XTREME	32.00	ZMA	5						
D	»MSO	1.00	PMV	5						
E	»CHEETAH 2.34L	29.00	ZMA	12						
F	»LIQUID AMS	2.50	PMV	12						
4A	»NUP-19070	11.00	ZMA	5	67	0	99	99	99	99
B	»ACTIVATOR 90	0.25	PMV	5						
C	»PANTHER PRO 4.	12.00	ZMA	9						
D	»CREDIT XTREME	32.00	ZMA	9						
E	»MSO	1.00	PMV	9						
F	»CHEETAH 2.34L	29.00	ZMA	12						
G	»LIQUID AMS	2.50	PMV	12						
5A	»NUP-19070	11.00	ZMA	5	99	0	99	99	99	95
B	»PANTHER PRO 4.	15.00	ZMA	5						
C	»CREDIT XTREME	32.00	ZMA	5						
D	»MSO	1.00	PMV	5						
E	»CHEETAH 2.34L	29.00	ZMA	12						
F	»LIQUID AMS	2.50	PMV	12						
6A	»NUP-19070	11.00	ZMA	5	63	0	99	99	99	93
B	»ACTIVATOR 90	0.25	PMV	5						
C	»AUTHORITY MTZ	14.00	OMA	9						
D	»CREDIT XTREME	32.00	ZMA	9						
E	»MSO	1.00	PMV	9						
F	»CHEETAH 2.34L	29.00	ZMA	12						
G	»LIQUID AMS	2.50	PMV	12						
	LSD (0.05)				8.7	2.1	0.0	1.7	0.0	6.8
	STANDARD DEVIATION				3.9	1.0	0.0	0.8	0.0	3.0

TITLE: Panther MTZ for Weed Control in No-till Liberty-Link Soybean. N-200
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	PHBPU CON % 06/16/20	ERICA CON % 06/16/20	SETFA CON % 06/16/20	GLXMA CON % 07/01/20	CHEAL CON % 07/01/20	AMBEL CON % 07/01/20
1A	CHECK	0.00	NA	0	0	0	0	0	0	0
2A	»NUP-19070	11.00	ZMA	5	72	95	90	0	99	99
B	»ACTIVATOR 90	0.25	PMV	5						
C	»PANTHER MTZ 3.	12.00	ZMA	9						
D	»CREDIT XTREME	32.00	ZMA	9						
E	»MSO	1.00	PMV	9						
F	»CHEETAH 2.34L	29.00	ZMA	12						
G	»LIQUID AMS	2.50	PMV	12						
3A	»NUP-19070	11.00	ZMA	5	46	99	65	0	99	99
B	»PANTHER MTZ 3.	15.00	ZMA	5						
C	»CREDIT XTREME	32.00	ZMA	5						
D	»MSO	1.00	PMV	5						
E	»CHEETAH 2.34L	29.00	ZMA	12						
F	»LIQUID AMS	2.50	PMV	12						
4A	»NUP-19070	11.00	ZMA	5	78	95	90	0	99	99
B	»ACTIVATOR 90	0.25	PMV	5						
C	»PANTHER PRO 4.	12.00	ZMA	9						
D	»CREDIT XTREME	32.00	ZMA	9						
E	»MSO	1.00	PMV	9						
F	»CHEETAH 2.34L	29.00	ZMA	12						
G	»LIQUID AMS	2.50	PMV	12						
5A	»NUP-19070	11.00	ZMA	5	78	99	82	0	99	99
B	»PANTHER PRO 4.	15.00	ZMA	5						
C	»CREDIT XTREME	32.00	ZMA	5						
D	»MSO	1.00	PMV	5						
E	»CHEETAH 2.34L	29.00	ZMA	12						
F	»LIQUID AMS	2.50	PMV	12						
6A	»NUP-19070	11.00	ZMA	5	77	87	78	0	99	99
B	»ACTIVATOR 90	0.25	PMV	5						
C	»AUTHORITY MTZ	14.00	OMA	9						
D	»CREDIT XTREME	32.00	ZMA	9						
E	»MSO	1.00	PMV	9						
F	»CHEETAH 2.34L	29.00	ZMA	12						
G	»LIQUID AMS	2.50	PMV	12						
	LSD (0.05)				16.9	4.3	5.0	0.0	0.0	0.0
	STANDARD DEVIATION				7.6	1.9	2.2	0.0	0.0	0.0

TITLE: Panther MTZ for Weed Control in No-till Liberty-Link Soybean. N-200
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	PHBPU CON % 07/01/20	ERICA CON % 07/01/20	SETFA CON % 07/01/20
1A	CHECK	0.00	NA	0	0	0	0
2A	»NUP-19070	11.00	ZMA	5	62	99	95
B	»ACTIVATOR 90	0.25	PMV	5			
C	»PANTHER MTZ 3.	12.00	ZMA	9			
D	»CREDIT XTREME	32.00	ZMA	9			
E	»MSO	1.00	PMV	9			
F	»CHEETAH 2.34L	29.00	ZMA	12			
G	»LIQUID AMS	2.50	PMV	12			
3A	»NUP-19070	11.00	ZMA	5	60	99	90
B	»PANTHER MTZ 3.	15.00	ZMA	5			
C	»CREDIT XTREME	32.00	ZMA	5			
D	»MSO	1.00	PMV	5			
E	»CHEETAH 2.34L	29.00	ZMA	12			
F	»LIQUID AMS	2.50	PMV	12			
4A	»NUP-19070	11.00	ZMA	5	72	99	96
B	»ACTIVATOR 90	0.25	PMV	5			
C	»PANTHER PRO 4.	12.00	ZMA	9			
D	»CREDIT XTREME	32.00	ZMA	9			
E	»MSO	1.00	PMV	9			
F	»CHEETAH 2.34L	29.00	ZMA	12			
G	»LIQUID AMS	2.50	PMV	12			
5A	»NUP-19070	11.00	ZMA	5	75	99	95
B	»PANTHER PRO 4.	15.00	ZMA	5			
C	»CREDIT XTREME	32.00	ZMA	5			
D	»MSO	1.00	PMV	5			
E	»CHEETAH 2.34L	29.00	ZMA	12			
F	»LIQUID AMS	2.50	PMV	12			
6A	»NUP-19070	11.00	ZMA	5	73	99	93
B	»ACTIVATOR 90	0.25	PMV	5			
C	»AUTHORITY MTZ	14.00	OMA	9			
D	»CREDIT XTREME	32.00	ZMA	9			
E	»MSO	1.00	PMV	9			
F	»CHEETAH 2.34L	29.00	ZMA	12			
G	»LIQUID AMS	2.50	PMV	12			
	LSD (0.05)				5.7	0.0	7.1
	STANDARD DEVIATION				2.5	0.0	3.2

» **= SUPPLEMENTAL CHEMICAL**

*** TIMING CODES**
00 = --- / UNTREATED TIMING
05 = --- / EPP 15DBP 05/01/2020(1)
09 = --- / PREEMERGENCE 05/27/2020(2)
12 = --- / POST 06/17/2020(3)

H#	CUSTOM#1	CUSTOM#2	EV.DATE	S#	TYP	SPECIE	STAGE	RAW	PRT	SYM	MTH	CNF	BASIS	C.M	CTRT	SS	NOTE
001	LAMAM	CON %	05/26/2020	02	P	LAMAM		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
002	STEME	CON %	05/26/2020	03	P	STEME		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
003	CHEAL	CON %	05/26/2020	04	P	CHEAL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
004	AMBEL	CON %	05/26/2020	05	P	AMBEL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
005	PHBPU	CON %	05/26/2020	06	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
006	ERICA	CON %	05/26/2020	07	P	ERICA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
007	SETFA	CON %	05/26/2020	08	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
008	GLXMA	CON %	06/16/2020	01	P	GLXMA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
009	LAMAM	CON %	06/16/2020	02	P	LAMAM		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
010	STEME	CON %	06/16/2020	03	P	STEME		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
011	CHEAL	CON %	06/16/2020	04	P	CHEAL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N

DATA MEAN

TITLE: Panther MTZ for Weed Control in No-till Liberty-Link Soybean. N-200

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

*** SPECIES COMMON NAME - VARIETY/SPECIE INFO (IF APPLICABLE)**
01 = MERSCHMAN HARRISON 2030E