APPLICATIONS

SOIL INFORMATION

TEXTURE: SIL
PH: 6.4
%OM: 4.6
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	05/10/19	05/21/19	06/18/19	AME
TIME - BEGIN	10:15	17:40	11:20	24H
TIME - END	10:30	17:45	12:15	24H
AIR TEMPERATURE	52	60	81	F
% REL.HUMIDITY	67	72	60	
WIND DIRECTION	NORTHWEST	SOUTHEAST	SOUTHEAST	
WIND SPEED	4.0	10.0	4.0	M/H
CLOUD COVER	CLOUDY-~6	CLOUDY-~6	PAR.CLOUD	
DEW	NO	NO	NO	
SOIL MOISTURE	MOIST/MOI	DRY/MOIST	MOIST/MOI	
SOIL CONDITION	TO BE SEL	TO BE SEL	TO BE SEL	
SOIL TEMP/DEPTH	56/4.00	56/4.00	74/4.00	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			---/14	
CZ 3601LL			8.00/10.0	IN
(PLANTED) 05/21/2019			28 DAP	
PEST *				
P, Waterhemp, commo			---/00 2.00/4.00	IN
P, Lambsquarters, c			---/19 2.00/3.00	IN
P, Mare's tail / Ho			---/19 4.00/12.0	IN

*** CONTINUE

SPECIE AND STAGE	DEN / STG MIN / MAX	DEN / STG MIN / MAX	DEN / STG MIN / MAX	
PEST *				
P, Tall morning glo			---/16 3.00/5.00	IN
P, Giant foxtail			---/16 6.00/12.0	IN

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

*** STAGE CODE**
00 = DRY SEED; DORMANCY
14 = TRIFOLIOLATE LEAF ON THE 4TH NODE UNFOLDED
16 = 6 LEAVES UNFOLDED
16 = 6TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
19 = >8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED

TITLE: Panther Pro for Weed Control in N0-till Liberty-Link Soybean 261-68
CREATED: 04/02/2019 **REVISED:** 10/31/2019 **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	SETFA CON % 05/21/19	ERICA CON % 05/21/19	CHEAL CON % 05/21/19	GLXMA CON % 06/18/19	SETFA CON % 06/18/19	ERICA CON % 06/18/19
1A	»SPITFIRE 3.57L	0.56	LAA	5	99	98	98	0	65	99
B	»CREDIT XTREME	1.125	LAA	5						
C	»LIQUID AMS	2.50	PMV	5						
2A	»SPITFIRE 3.57L	0.56	LAA	5	99	99	99	0	85	96
B	»CREDIT XTREME	1.125	LAA	5						
C	»PANTHER PRO 4.	0.49	LAA	5						
D	»LIQUID AMS	2.50	PMV	5						
E	»MSO	1.00	PMV	5						
F	»CHEETAH 2.34L	0.53	LAA	12						
G	»LIQUID AMS	2.50	PMV	12						
3A	»SPITFIRE 3.57L	0.56	LAA	5	99	99	99	0	93	99
B	»CREDIT XTREME	1.125	LAA	5						
C	»ZIDUA PRO 4.09	0.192	LAA	5						
D	»LIQUID AMS	2.50	PMV	5						
E	»MSO	1.00	PMV	5						
F	»CHEETAH 2.34L	0.53	LAA	12						
G	»LIQUID AMS	2.50	PMV	12						
4A	»SPITFIRE 3.57L	0.56	LAA	5	99	99	96	0	96	99
B	»CREDIT XTREME	1.125	LAA	5						
C	»LIQUID AMS	2.50	PMV	5						
D	»ZIDUA PRO 4.09	0.192	LAA	9						
E	»CREDIT XTREME	1.125	LAA	9						
F	»MSO	1.00	PMV	9						
G	»CHEETAH 2.34L	0.53	LAA	12						
H	»LIQUID AMS	2.50	PMV	12						
5A	»SPITFIRE 3.57L	0.56	LAA	5	99	99	99	0	92	99
B	»CREDIT XTREME	1.125	LAA	5						
C	»LIQUID AMS	2.50	PMV	5						
D	»PANTHER PRO 4.	0.49	LAA	9						
E	»CREDIT XTREME	1.125	LAA	9						
F	»MSO	1.00	PMV	9						
G	»CHEETAH 2.34L	0.53	LAA	12						
H	»LIQUID AMS	2.50	PMV	12						
6A	CHECK	0.00	NA	0	0	0	0	0	0	0
	LSD (0.05)				0.0	1.7	2.7	0.0	7.1	1.7
	STANDARD DEVIATION				0.0	0.8	1.2	0.0	3.2	0.8

TITLE: Panther Pro for Weed Control in N0-till Liberty-Link Soybean 261-68
CREATED: 04/02/2019 **REVISED:** 10/31/2019 **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	CHEAL CON % 06/18/19	AMATA CON % 06/18/19	PHBPU CON % 06/18/19	GLXMA CON % 07/01/19	SETFA CON % 07/01/19	ERICA CON % 07/01/19
1A	»SPITFIRE 3.57L	0.56	LAA	5	73	73	83	0	42	95
B	»CREDIT XTREME	1.125	LAA	5						
C	»LIQUID AMS	2.50	PMV	5						
2A	»SPITFIRE 3.57L	0.56	LAA	5	98	99	91	2	93	99
B	»CREDIT XTREME	1.125	LAA	5						
C	»PANTHER PRO 4.	0.49	LAA	5						
D	»LIQUID AMS	2.50	PMV	5						
E	»MSO	1.00	PMV	5						
F	»CHEETAH 2.34L	0.53	LAA	12						
G	»LIQUID AMS	2.50	PMV	12						
3A	»SPITFIRE 3.57L	0.56	LAA	5	98	99	93	2	98	99
B	»CREDIT XTREME	1.125	LAA	5						
C	»ZIDUA PRO 4.09	0.192	LAA	5						
D	»LIQUID AMS	2.50	PMV	5						
E	»MSO	1.00	PMV	5						
F	»CHEETAH 2.34L	0.53	LAA	12						
G	»LIQUID AMS	2.50	PMV	12						
4A	»SPITFIRE 3.57L	0.56	LAA	5	98	99	97	2	97	98
B	»CREDIT XTREME	1.125	LAA	5						
C	»LIQUID AMS	2.50	PMV	5						
D	»ZIDUA PRO 4.09	0.192	LAA	9						
E	»CREDIT XTREME	1.125	LAA	9						
F	»MSO	1.00	PMV	9						
G	»CHEETAH 2.34L	0.53	LAA	12						
H	»LIQUID AMS	2.50	PMV	12						
5A	»SPITFIRE 3.57L	0.56	LAA	5	99	99	98	2	95	99
B	»CREDIT XTREME	1.125	LAA	5						
C	»LIQUID AMS	2.50	PMV	5						
D	»PANTHER PRO 4.	0.49	LAA	9						
E	»CREDIT XTREME	1.125	LAA	9						
F	»MSO	1.00	PMV	9						
G	»CHEETAH 2.34L	0.53	LAA	12						
H	»LIQUID AMS	2.50	PMV	12						
6A	CHECK	0.00	NA	0	0	0	0	0	0	0
	LSD (0.05)				12.1	10.7	16.1	0.0	5.3	3.5
	STANDARD DEVIATION				5.4	4.8	7.2	0.0	2.4	1.6

DATA MEAN

TITLE: Panther Pro for Weed Control in N0-till Liberty-Link Soybean 261-68
CREATED: 04/02/2019 **REVISED:** 10/31/2019 **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	CHEAL CON % 07/01/19	AMATA CON % 07/01/19	PHBPU CON % 07/01/19	GLXMA CON % 07/15/19	SETFA CON % 07/15/19	ERICA CON % 07/15/19
1A	»SPITFIRE 3.57L	0.56	LAA	5	70	53	82	0	17	95
B	»CREDIT XTREME	1.125	LAA	5						
C	»LIQUID AMS	2.50	PMV	5						
2A	»SPITFIRE 3.57L	0.56	LAA	5	99	99	92	0	87	99
B	»CREDIT XTREME	1.125	LAA	5						
C	»PANTHER PRO 4.	0.49	LAA	5						
D	»LIQUID AMS	2.50	PMV	5						
E	»MSO	1.00	PMV	5						
F	»CHEETAH 2.34L	0.53	LAA	12						
G	»LIQUID AMS	2.50	PMV	12						
3A	»SPITFIRE 3.57L	0.56	LAA	5	99	99	98	0	90	99
B	»CREDIT XTREME	1.125	LAA	5						
C	»ZIDUA PRO 4.09	0.192	LAA	5						
D	»LIQUID AMS	2.50	PMV	5						
E	»MSO	1.00	PMV	5						
F	»CHEETAH 2.34L	0.53	LAA	12						
G	»LIQUID AMS	2.50	PMV	12						
4A	»SPITFIRE 3.57L	0.56	LAA	5	99	99	95	0	93	99
B	»CREDIT XTREME	1.125	LAA	5						
C	»LIQUID AMS	2.50	PMV	5						
D	»ZIDUA PRO 4.09	0.192	LAA	9						
E	»CREDIT XTREME	1.125	LAA	9						
F	»MSO	1.00	PMV	9						
G	»CHEETAH 2.34L	0.53	LAA	12						
H	»LIQUID AMS	2.50	PMV	12						
5A	»SPITFIRE 3.57L	0.56	LAA	5	99	99	98	0	88	99
B	»CREDIT XTREME	1.125	LAA	5						
C	»LIQUID AMS	2.50	PMV	5						
D	»PANTHER PRO 4.	0.49	LAA	9						
E	»CREDIT XTREME	1.125	LAA	9						
F	»MSO	1.00	PMV	9						
G	»CHEETAH 2.34L	0.53	LAA	12						
H	»LIQUID AMS	2.50	PMV	12						
6A	CHECK	0.00	NA	0	0	0	0	0	0	0
	LSD (0.05)				12.9	18.3	16.0	0.0	9.3	3.3
	STANDARD DEVIATION				5.8	8.2	7.2	0.0	4.2	1.5

DATA MEAN

TITLE: Panther Pro for Weed Control in N0-till Liberty-Link Soybean 261-68
CREATED: 04/02/2019 **REVISED:** 10/31/2019 **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	CHEAL CON % 07/15/19	AMATA CON % 07/15/19	PHBPU CON % 07/15/19
1A	»SPITFIRE 3.57L	0.56	LAA	5	65	45	85
B	»CREDIT XTREME	1.125	LAA	5			
C	»LIQUID AMS	2.50	PMV	5			
2A	»SPITFIRE 3.57L	0.56	LAA	5	99	98	90
B	»CREDIT XTREME	1.125	LAA	5			
C	»PANTHER PRO 4.	0.49	LAA	5			
D	»LIQUID AMS	2.50	PMV	5			
E	»MSO	1.00	PMV	5			
F	»CHEETAH 2.34L	0.53	LAA	12			
G	»LIQUID AMS	2.50	PMV	12			
3A	»SPITFIRE 3.57L	0.56	LAA	5	99	95	95
B	»CREDIT XTREME	1.125	LAA	5			
C	»ZIDUA PRO 4.09	0.192	LAA	5			
D	»LIQUID AMS	2.50	PMV	5			
E	»MSO	1.00	PMV	5			
F	»CHEETAH 2.34L	0.53	LAA	12			
G	»LIQUID AMS	2.50	PMV	12			
4A	»SPITFIRE 3.57L	0.56	LAA	5	99	95	90
B	»CREDIT XTREME	1.125	LAA	5			
C	»LIQUID AMS	2.50	PMV	5			
D	»ZIDUA PRO 4.09	0.192	LAA	9			
E	»CREDIT XTREME	1.125	LAA	9			
F	»MSO	1.00	PMV	9			
G	»CHEETAH 2.34L	0.53	LAA	12			
H	»LIQUID AMS	2.50	PMV	12			
5A	»SPITFIRE 3.57L	0.56	LAA	5	99	99	94
B	»CREDIT XTREME	1.125	LAA	5			
C	»LIQUID AMS	2.50	PMV	5			
D	»PANTHER PRO 4.	0.49	LAA	9			
E	»CREDIT XTREME	1.125	LAA	9			
F	»MSO	1.00	PMV	9			
G	»CHEETAH 2.34L	0.53	LAA	12			
H	»LIQUID AMS	2.50	PMV	12			
6A	CHECK	0.00	NA	0	0	0	0
	LSD (0.05)				22.2	20.7	19.1
	STANDARD DEVIATION				9.9	9.3	8.6

» **= SUPPLEMENTAL CHEMICAL**

*** TIMING CODES**
00 = --- / UNTREATED TIMING
05 = --- / EPP 15DBP 05/10/2019(1)
09 = --- / PREEMERGENCE 05/21/2019(2)
12 = --- / POST 06/18/2019(3)

H#	CUSTOM#1	CUSTOM#2	EV.DATE	S#	TYP	SPECIE	STAGE	RAW	PRT	SYM	MTH	CNF	BASIS	C.M	CTRT	SS	NOTE
001	SETFA	CON %	05/21/2019	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
002	ERICA	CON %	05/21/2019	03	P	ERICA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
003	CHEAL	CON %	05/21/2019	04	P	CHEAL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
004	GLXMA	CON %	06/18/2019	01	P	GLXMA	14	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
005	SETFA	CON %	06/18/2019	02	P	SETFA	16	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
006	ERICA	CON %	06/18/2019	03	P	ERICA	19	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
007	CHEAL	CON %	06/18/2019	04	P	CHEAL	19	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
008	AMATA	CON %	06/18/2019	05	P	AMATA	00	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
009	PHBPU	CON %	06/18/2019	06	P	PHBPU	16	RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
010	GLXMA	CON %	07/01/2019	01	P	GLXMA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
011	SETFA	CON %	07/01/2019	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N

TITLE: Panther Pro for Weed Control in N0-till Liberty-Link Soybean 261-68

H#	CUSTOM#1	CUSTOM#2	EV.DATE	S#	TYP	SPECIE	STAGE	RAW	PRT	SYM	MTH	CNF	BASIS	C.M	CTRT	SS	NOTE
012	ERICA	CON %	07/01/2019	03	P	ERICA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
013	CHEAL	CON %	07/01/2019	04	P	CHEAL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
014	AMATA	CON %	07/01/2019	05	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
015	PHBPU	CON %	07/01/2019	06	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
016	GLXMA	CON %	07/15/2019	01	P	GLXMA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
017	SETFA	CON %	07/15/2019	02	P	SETFA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
018	ERICA	CON %	07/15/2019	03	P	ERICA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
019	CHEAL	CON %	07/15/2019	04	P	CHEAL		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
020	AMATA	CON %	07/15/2019	05	P	AMATA		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N
021	PHBPU	CON %	07/15/2019	06	P	PHBPU		RAW	ALL	CON	%	---	1.00 PL	NO	0001	0	N

*** SPECIES COMMON NAME - VARIETY/SPECIE INFO (IF APPLICABLE)**
01 = CZ 3601LL

*** STAGE CODE**
00 = DRY SEED; DORMANCY
14 = TRIFOLIOLATE LEAF ON THE 4TH NODE UNFOLDED
16 = 6 LEAVES UNFOLDED
16 = 6TH TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED
19 = >8 TRUE LEAVES/LEAF PAIRS/WHORLS UNFOLDED