

The Ohio State University

Weed Control in Liberty Link Corn

Trial ID: 20LLCORN
 Protocol ID: BASFC41,BELCHIM20-112
 Project ID:

Location: Western Branch G-6
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Alice Harris, BASF Dennis Long, Bel

Trial Year: 2020

General Trial Information

Study Director: Anthony Dobbels
Investigator: Dr. Mark M. Loux

Discipline: H herbicide
Trial Status: E established

ARM Trial Created On: Mar-26-2020 **Trial Usage/Type:** 0 Research and Development
Initiation Date: Apr-22-2020

Trial Location

Address (Location): 7721 South Charleston Pike
City: South Charleston **Country:** USA United States
State/Prov.: Ohio
Postal Code: 45368

Latitude of LL Corner °: 39.85942 N
Longitude of LL Corner °: -83.6746 W
Altitude of LL Corner: 1094.00 FT

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Anthony Dobbels

Investigator: Dr. Mark M. Loux

Crop Description

Crop 1: C ZEAMD Zea mays indentata Dent corn **BBCH Scale:** BCOR
Entry Date: Apr-23-2020 **Stage Scale:** BBCH
Variety: Pioneer P1197AM
Attributes: Glyphosate and Glufosinate Resistant
Seed Lot No: B3PLY13085-N **Seed Source:** Pioneer
% Germination: 95
Planting Date: Apr-22-2020 **Planting Rate:** 32097 S/A
Depth: 2 IN
Rows per Plot: 4 **Planting Method:** PLANTD planted
Row Spacing: 30 IN **Planting Equipment:** FFP finger pickup planter
Seed Bed: MEDIUM medium
Soil Temperature: 54 F **Soil Moisture:** NORMAL normal, adequate
Emergence Date: May-14-2020

Pest Description

Pest 1 Type: W **Code:** SETFA *Setaria faberi*
Common Name: Giant foxtail **Entry Date:** Apr-23-2020

Pest 2 Type: W **Code:** AMBTR *Ambrosia trifida*
Common Name: ragweed, giant **Entry Date:** Jun-9-2020

Pest 3 Type: W **Code:** CHEAL *Chenopodium album*
Common Name: lambsquarters, common **Entry Date:** Jun-9-2020

Pest 4 Type: W **Code:** ABUTH *Abutilon theophrasti*
Common Name: velvetleaf **Entry Date:** Jun-9-2020

Pest 5 Type: W **Code:** SIDSP *Sida spinosa*
Common Name: sida, prickly **Entry Date:** Jun-9-2020

Pest 6 Type: W **Code:** IPOSS *Ipomoea sp.*
Common Name: Morning glory **Entry Date:** Jun-9-2020

Pest 7 Type: W **Code:** AMARE *Amaranthus retroflexus*
Common Name: pigweed, redroot **Entry Date:** Jun-22-2020

Pest 8 Type: W **Code:** ECHCG *Echinochloa crus-galli*
Common Name: barnyardgrass **Entry Date:** Jun-22-2020

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT **Experimental Unit:** 1 PLOT plot
Treated Plot Area: 300 FT² **Treatments:** 12 **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** RACOBL Randomized Complete Block (RCB)

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Trial Initiation Comments:

Fall Chisel Plow, spring finishing tool with disc, field cultivator, drag harrow, and rolling basket

Previous

No. Crop Year
 1. GLXMA 2019

Soil Description

Description Name: G-6
 % Sand: 32 % OM: 2.2 Texture: SICL silty clay loam
 % Silt: 53 pH: 5.9 Soil Name: Kokomo
 % Clay: 15 CEC: 14.8 Fert. Level: G good
 Soil Drainage: G good

Application Description

	A	B
Application Date	Apr-22-2020	Jun-9-2020
Appl. Start Time	5:00 PM	8:00 AM
Appl. Stop Time	5:30 PM	8:30 AM
Interval to Prev. Appl.		48 DAYS
Application Method	NONINC	SPRAY
Application Timing	PREPRE	POSPOS
Application Placement	BROSIO	BROFOL
Applied By	Loux	Ackley
Appl. Entry Date	Apr-23-2020	Jun-9-2020
Air Temperature Start, Stop	59 60 F	69 69 F
% Relative Humidity Start, Stop	36 36	64 64
Wind Velocity+Dir. Start	7 MPH S	8 MPH ESE
Wind Velocity+Dir. Stop	7 MPH S	8 MPH ESE
Wind Velocity+Dir. Max	7 MPH S	8 MPH ESE
Wet Leaves (Y/N)	N no	N no
Soil Temperature	55 F	68 F
Soil Moisture	NORMAL	DRY
Soil Surface Condition	MEDIUM	MEDIUM
% Cloud Cover	30	15
Next Moisture Occurred On	Jun-23-2020	Jun-9-2020
Time to Next Moisture	20 HR	9.5 HR
Moisture 6 Hours after Appl.	0 IN	0 IN
Moisture 1 Week after Appl.	1.24 IN	0.37 IN

Crop Stage At Each Application

	A		B	
Crop 1 Code, BBCH Scale	ZEAMD	BCOR	ZEAMD	BCOR
Days after Emergence	-22		26	
Stage Majority, Percent			15	100
Height Average			20	IN

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Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale	SETFA W	SETFA W
Stage Majority, Percent	12	90
Stage Minimum, Percent	11	5
Stage Maximum, Percent	13	5
Height Average	3	IN
Height Minimum, Maximum	1	3
Density Average	326	PLA/m2
Density Min, Max	64	1000
Pest 2 Code, Type, Scale	AMBTR W	AMBTR W
Stage Majority, Percent	21	80
Stage Minimum, Percent	16	20
Stage Maximum, Percent	21	80
Height Average	8	IN
Height Minimum, Maximum	6	12
Density Average	18	PLA/m2
Density Min, Max	12	24
Pest 3 Code, Type, Scale	CHEAL W	CHEAL W
Stage Majority, Percent	16	100
Height Average	3	IN
Height Minimum, Maximum	2	4
Density Average	454	PLA/m2
Density Min, Max	160	1080
Pest 4 Code, Type, Scale	ABUTH W	ABUTH W
Stage Majority, Percent	12	100
Height Average	1	90
Height Minimum, Maximum	0.5	5
Density Average	36	PLA/m2
Density Min, Max	8	48
Pest 5 Code, Type, Scale	SIDSP W	SIDSP W
Stage Majority, Percent	12	100
Height Average	0.5	IN
Height Minimum, Maximum	0.25	1
Pest 6 Code, Type, Scale	IPOSS W	IPOSS W
Stage Majority, Percent	11	100
Height Average	1	IN
Height Minimum, Maximum	0.5	2
Density Average	1	PLA/m2
Density Min, Max	0	3
Pest 7 Code, Type, Scale	AMARE W	AMARE W
Density Average	53	PLA/m2
Density Min, Max	4	160
Pest 8 Code, Type, Scale	ECHCG W	ECHCG W
Density Average	27	PLA/m2
Density Min, Max	0	108

Application Equipment

	A	B
Appl. Equipment	10 Foot TTI	10' TTI
Equipment Type	BACCAI	BACCAI
Operation Pressure	44 PSI	44 PSI
Nozzle Type	TTI	TTI
Nozzle Size	110015	110015
Nozzle Spacing	18 IN	18 IN
Boom Length	10 FT	10 FT
Boom Height	20 IN	20 IN
Ground Speed	3 MPH	3 MPH
Carrier	WATER	WATER
Application Amount	15 GAL/AC	15 GAL/AC
Mix Size	2 L	2 L
Propellant	COMCO2	COMCO2
Tank Mix (Y/N)		Y yes

Context	Date	By	Notes
STATUS	Mar-26-2020	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	Mar-26-2020	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	Apr-23-2020	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'E' when Initiation Date entered.
STATUS	May-19-2020	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'E' when Emergence Date entered.

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SE Definitions

	1.	2.	3.	4.
Rating Timing	1	2	3	4
SE Name	ZUSW001	ZUSX001	ZUSX052_C3	ZUSX003
SE Description	%Control	%PHYTO- GENERAL	YIELD/A	%PHYTO- STUNTIN G PLANT PHYSTU
Part Rated	PLANT	PLANT	GRAIN	PLANT
Rating Type	CONTRO	PHYGEN	YIELD	PHYSTU
Rating Unit	%	%	BU	%
Sample Size	1 PLOT 1	PLOT FT2		1 PLOT
Collection Basis	1 PLOT 1	PLOT 1	PLOT	1 PLOT
Reporting Basis	1 PLOT 1	PLOT 1	A	1 PLOT
Calculation	NC	NC	IN	NC
Number of Subsamples			1	
ARM Action Codes			@YLDLBBUADM[1,2]	

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOHE
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea hederacea
Pest Name	Giant foxtail	Giant ragweed	common lambsqu	ivy-leaf morri
Crop Type, Code	C	ZEAMX		
BBCH Scale	BCOR			
Crop Scientific Name	Zea mays			
Crop Name	Corn			
Rating Date	Jun-8-2020	Jun-8-2020	Jun-8-2020	Jun-8-2020
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-22-2020	Jun-22-2020	Jun-22-2020	Jun-22-2020
Rating Timing	AT POST	AT POST	AT POST	AT POST
Days After First/Last Applic.	47 47	47 47	47 47	47 47
Trt-Eval Interval	47 DA-A	47 DA-A	47 DA-A	47 DA-A
Plant-Eval Interval	47 DP-1	47 DP-1	47 DP-1	47 DP-1
Days After Emergence	25 DE-1	25 DE-1	25 DE-1	25 DE-1
Number of Decimals	0	0	0	0

Trt	Treatment	Rate	Other	Other	Appl	1*	2*	3*	4*	5*
No.	Name	Rate	Unit	Rate	Rate Unit Code					
1	UTC					0 -	0 f	0 e	0 c	0 e
2	Verdict	488 g ai/ha		10 oz/a	A	0 -	68 e	70 a	100 a	88 bcd
2	Atrazine	1120 g ai/ha		32 oz/a	A					
2	Liberty	656 g ai/ha		32 oz/a	B					
2	Atrazine	1120 g ai/ha		32 oz/a	B					
2	N PAK-AMS	5 % v/v		5 % v/v	B					
3	Verdict	488 g ai/ha		10 oz/a	A	0 -	81 bcd	61 ab	100 a	85 bcd
3	Atrazine	1120 g ai/ha		32 oz/a	A					
3	Liberty	656 g ai/ha		32 oz/a	B					
3	Armezon Pro	750 g ai/ha		16 oz/a	B					
3	Atrazine	1120 g ai/ha		32 oz/a	B					
3	N PAK-AMS	5 % v/v		5 % v/v	B					
4	Verdict	488 g ai/ha		10 oz/a	A	0 -	70 de	63 ab	100 a	79 d
4	Atrazine	1120 g ai/ha		32 oz/a	A					
4	Liberty	656 g ai/ha		32 oz/a	B					
4	Armezon Pro	750 g ai/ha		16 oz/a	B					
4	Atrazine	1120 g ai/ha		32 oz/a	B					
4	MSO	1 % v/v		1 % v/v	B					
4	N PAK-AMS	5 % v/v		5 % v/v	B					
5	Verdict	488 g ai/ha		10 oz/a	A	0 -	80 bcd	63 ab	100 a	93 ab
5	Atrazine	1120 g ai/ha		32 oz/a	A					
5	Roundup Powermax	1260 g ai/ha		32 oz/a	B					
5	Armezon Pro	750 g ai/ha		16 oz/a	B					
5	Atrazine	1120 g ai/ha		32 oz/a	B					
5	MSO	1 % v/v		1 % v/v	B					
5	N PAK-AMS	5 % v/v		5 % v/v	B					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOHE
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea hederacea
Pest Name	Giant foxtail	Giant ragweed	common lambsquirt	ivy-leaf morning glory
Crop Type, Code	C ZEAMX			
BBCH Scale	BCOR			
Crop Scientific Name	Zea mays			
Crop Name	Corn			
Rating Date	Jun-8-2020	Jun-8-2020	Jun-8-2020	Jun-8-2020
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-22-2020	Jun-22-2020	Jun-22-2020	Jun-22-2020
Rating Timing	AT POST	AT POST	AT POST	AT POST
Days After First/Last Applic.	47 47	47 47	47 47	47 47
Trt-Eval Interval	47 DA-A	47 DA-A	47 DA-A	47 DA-A
Plant-Eval Interval	47 DP-1	47 DP-1	47 DP-1	47 DP-1
Days After Emergence	25 DE-1	25 DE-1	25 DE-1	25 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit	Code	1*	2*	3*	4*	5*
6	Verdict	488 g ai/ha	10 oz/a		A		0 -	79 cde	65 ab	95 a	80 cd
6	Atrazine	1120 g ai/ha	32 oz/a		A						
6	Liberty	656 g ai/ha	32 oz/a		B						
6	Status	98 g ai/ha	2.5 oz/a		B						
6	Atrazine	1120 g ai/ha	32 oz/a		B						
6	N PAK-AMS	5 % v/v	5 % v/v		B						
7	Verdict	488 g ai/ha	10 oz/a		A		0 -	83 bc	60 abc	95 a	85 bcd
7	Atrazine	1120 g ai/ha	32 oz/a		A						
7	Roundup Powermax	1260 g ai/ha	32 oz/a		B						
7	Status	98 g ai/ha	2.5 oz/a		B						
7	Atrazine	1120 g ai/ha	32 oz/a		B						
7	N PAK-AMS	5 % v/v	5 % v/v		B						
8	Resicore	1150 g ai/ha	40 oz/a		A		0 -	73 cde	64 ab	100 a	84 bcd
8	Atrazine	1120 g ai/ha	32 oz/a		A						
8	Liberty	656 g ai/ha	32 oz/a		B						
8	Status	98 g ai/ha	2.5 oz/a		B						
8	Atrazine	1120 g ai/ha	32 oz/a		B						
8	N PAK-AMS	5 % v/v	5 % v/v		B						
9	Dual II Magnum	1.53 lb ai/a	1.6 pt/a		A		0 -	98 a	48 c	71 b	79 d
9	Atrazine	1.5 lb ai/a	3 pt/a		B						
9	COC	1 % v/v	1 % v/v		B						
10	Dual II Magnum	1.53 lb ai/a	1.6 pt/a		A		0 -	91 ab	55 bc	73 b	90 abc
10	Atrazine	1.5 lb ai/a	3 pt/a		B						
10	Tough	0.313 lb ai/a	8 oz/a		B						
10	COC	1 % v/v	1 % v/v		B						
11	Dual II Magnum	1.53 lb ai/a	1.6 pt/a		A		0 -	100 a	28 d	71 b	98 a
11	Liberty	0.585 lb ai/a	32 oz/a		B						
11	N PAK-AMS	2.5 % v/v	2.5 % v/v		B						

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOHE
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea hederacea
Pest Name	Giant foxtail	Giant ragweed	common lambsquirt	ivy-leaf morning glory
Crop Type, Code	C ZEAMX			
BBCH Scale	BCOR			
Crop Scientific Name	Zea mays			
Crop Name	Corn			
Rating Date	Jun-8-2020	Jun-8-2020	Jun-8-2020	Jun-8-2020
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-22-2020	Jun-22-2020	Jun-22-2020	Jun-22-2020
Rating Timing	AT POST	AT POST	AT POST	AT POST
Days After First/Last Applic.	47 47	47 47	47 47	47 47
Trt-Eval Interval	47 DA-A	47 DA-A	47 DA-A	47 DA-A
Plant-Eval Interval	47 DP-1	47 DP-1	47 DP-1	47 DP-1
Days After Emergence	25 DE-1	25 DE-1	25 DE-1	25 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Appl Code	1*	2*	3*	4*	5*
12	Dual II Magnum	1.53 lb ai/a		1.6 pt/a		A	0 -	100 a	28 d	71 b	93 ab
12	Liberty	0.585 lb ai/a		32 oz/a		B					
12	Tough	0.313 lb ai/a		8 oz/a		B					
12	N PAK-AMS	2.5 % v/v		2.5 % v/v		B					
LSD P=.05								12.0	13.6	9.6	10.4
Standard Deviation							0.0	8.4	9.5	6.7	7.2
CV							0.0	10.87	18.86	8.19	9.13
Grand Mean							0.0	76.8	50.2	81.3	79.3
Levene's F							0.00	2.322	0.768	2.308	1.20
Levene's Prob(F)							.	0.028*	0.669	0.029*	0.322
Rank X2							.	.	.	.	.
P(Rank X2)							.	.	.	.	.
Skewness							.	-1.9003*	-1.2426*	-1.9547*	-2.4262*
Kurtosis							.	3.4647*	0.2098	3.4013*	5.5649*
Replicate F							0.000	1.417	0.751	1.296	3.281
Replicate Prob(F)							1.0000	0.2552	0.5297	0.2922	0.0329
Treatment F							0.000	40.988	19.847	74.654	50.340
Treatment Prob(F)							1.0000	0.0001	0.0001	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMARE	ABUTH	SETFA	AMBTR
Pest Scientific Name	Amaranthus ret>	Abutilon theop>	Setaria faberi	Ambrosia trifl>
Pest Name	Redroot pigweed	velvetleaf	Giant foxtail	Giant ragweed
Crop Type, Code			C ZEAMX	
BBCH Scale			BCOR	
Crop Scientific Name			Zea mays	
Crop Name			Corn	
Rating Date	Jun-8-2020	Jun-8-2020	Jun-16-2020	Jun-24-2020
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-22-2020	Jun-22-2020	Jun-22-2020	Jul-2-2020
Rating Timing	AT POST	AT POST		
Days After First/Last Applic.	47 47	47 47	55 7	63 15
Trt-Eval Interval	47 DA-A	47 DA-A	7 DA-B	15 DA-B
Plant-Eval Interval	47 DP-1	47 DP-1	55 DP-1	63 DP-1
Days After Emergence	25 DE-1	25 DE-1	33 DE-1	41 DE-1
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate	Unit	Other Rate	Other Rate	Appl Unit Code	6*	7*	8*	9*	10*
1 UTC						0 c	0 d	0 b	0 c	0 g
2 Verdict	488 g ai/ha		10 oz/a		A	93 ab	96 ab	0 b	88 b	93 ab
2 Atrazine	1120 g ai/ha		32 oz/a		A					
2 Liberty	656 g ai/ha		32 oz/a		B					
2 Atrazine	1120 g ai/ha		32 oz/a		B					
2 N PAK-AMS	5 % v/v		5 % v/v		B					
3 Verdict	488 g ai/ha		10 oz/a		A	98 a	96 ab	0 b	95 ab	84 bc
3 Atrazine	1120 g ai/ha		32 oz/a		A					
3 Liberty	656 g ai/ha		32 oz/a		B					
3 Armezon Pro	750 g ai/ha		16 oz/a		B					
3 Atrazine	1120 g ai/ha		32 oz/a		B					
3 N PAK-AMS	5 % v/v		5 % v/v		B					
4 Verdict	488 g ai/ha		10 oz/a		A	100 a	89 bc	2 a	91 ab	93 ab
4 Atrazine	1120 g ai/ha		32 oz/a		A					
4 Liberty	656 g ai/ha		32 oz/a		B					
4 Armezon Pro	750 g ai/ha		16 oz/a		B					
4 Atrazine	1120 g ai/ha		32 oz/a		B					
4 MSO	1 % v/v		1 % v/v		B					
4 N PAK-AMS	5 % v/v		5 % v/v		B					
5 Verdict	488 g ai/ha		10 oz/a		A	99 a	95 abc	0 b	96 ab	84 bc
5 Atrazine	1120 g ai/ha		32 oz/a		A					
5 Roundup Powermax	1260 g ai/ha		32 oz/a		B					
5 Armezon Pro	750 g ai/ha		16 oz/a		B					
5 Atrazine	1120 g ai/ha		32 oz/a		B					
5 MSO	1 % v/v		1 % v/v		B					
5 N PAK-AMS	5 % v/v		5 % v/v		B					

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Pest Code	AMARE	ABUTH	SETFA	AMBTR	
Pest Scientific Name	Amaranthus ret>	Abutilon theop>	Setaria faberi	Ambrosia trifi>	
Pest Name	Redroot pigweed	velvetleaf	Giant foxtail	Giant ragweed	
Crop Type, Code			C ZEAMX		
BBCH Scale			BCOR		
Crop Scientific Name			Zea mays		
Crop Name			Corn		
Rating Date	Jun-8-2020	Jun-8-2020	Jun-16-2020	Jun-24-2020	Jun-24-2020
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jun-22-2020	Jun-22-2020	Jun-22-2020	Jul-2-2020	Jul-2-2020
Rating Timing	AT POST	AT POST			
Days After First/Last Applic.	47 47	47 47	55 7	63 15	63 15
Trt-Eval Interval	47 DA-A	47 DA-A	7 DA-B	15 DA-B	15 DA-B
Plant-Eval Interval	47 DP-1	47 DP-1	55 DP-1	63 DP-1	63 DP-1
Days After Emergence	25 DE-1	25 DE-1	33 DE-1	41 DE-1	41 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit	Code	6*	7*	8*	9*	10*
6	Verdict	488 g ai/ha	10 oz/a			A	74 b	89 bc	0 b	93 ab	85 bc
6	Atrazine	1120 g ai/ha	32 oz/a			A					
6	Liberty	656 g ai/ha	32 oz/a			B					
6	Status	98 g ai/ha	2.5 oz/a			B					
6	Atrazine	1120 g ai/ha	32 oz/a			B					
6	N PAK-AMS	5 % v/v	5 % v/v			B					
7	Verdict	488 g ai/ha	10 oz/a			A	99 a	99 a	0 b	96 ab	83 bc
7	Atrazine	1120 g ai/ha	32 oz/a			A					
7	Roundup Powermax	1260 g ai/ha	32 oz/a			B					
7	Status	98 g ai/ha	2.5 oz/a			B					
7	Atrazine	1120 g ai/ha	32 oz/a			B					
7	N PAK-AMS	5 % v/v	5 % v/v			B					
8	Resicore	1150 g ai/ha	40 oz/a			A	99 a	100 a	0 b	90 ab	98 a
8	Atrazine	1120 g ai/ha	32 oz/a			A					
8	Liberty	656 g ai/ha	32 oz/a			B					
8	Status	98 g ai/ha	2.5 oz/a			B					
8	Atrazine	1120 g ai/ha	32 oz/a			B					
8	N PAK-AMS	5 % v/v	5 % v/v			B					
9	Dual II Magnum	1.53 lb ai/a	1.6 pt/a			A	100 a	91 abc	0 b	88 b	38 f
9	Atrazine	1.5 lb ai/a	3 pt/a			B					
9	COC	1 % v/v	1 % v/v			B					
10	Dual II Magnum	1.53 lb ai/a	1.6 pt/a			A	100 a	86 c	0 b	93 ab	55 e
10	Atrazine	1.5 lb ai/a	3 pt/a			B					
10	Tough	0.313 lb ai/a	8 oz/a			B					
10	COC	1 % v/v	1 % v/v			B					
11	Dual II Magnum	1.53 lb ai/a	1.6 pt/a			A	100 a	99 a	0 b	99 ab	71 d
11	Liberty	0.585 lb ai/a	32 oz/a			B					
11	N PAK-AMS	2.5 % v/v	2.5 % v/v			B					

The Ohio State University

Weed Control in Liberty Link Corn

Trial ID: 20LLCORN
 Protocol ID: BASFC41,BELCHIM20-112
 Project ID:

Location: Western Branch G-6
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Alice Harris, BASF Dennis Long, Bel

Trial Year: 2020

Pest Type	W Weed	W Weed	W Weed	W Weed	
Pest Code	AMARE	ABUTH	SETFA	AMBTR	
Pest Scientific Name	Amaranthus ret>	Abutilon theop>	Setaria faberi	Ambrosia trifi>	
Pest Name	Redroot pigweed	velvetleaf	Giant foxtail	Giant ragweed	
Crop Type, Code			C ZEAMX		
BBCH Scale			BCOR		
Crop Scientific Name			Zea mays		
Crop Name			Corn		
Rating Date	Jun-8-2020	Jun-8-2020	Jun-16-2020	Jun-24-2020	Jun-24-2020
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jun-22-2020	Jun-22-2020	Jun-22-2020	Jul-2-2020	Jul-2-2020
Rating Timing	AT POST	AT POST			
Days After First/Last Applic.	47 47	47 47	55 7	63 15	63 15
Trt-Eval Interval	47 DA-A	47 DA-A	7 DA-B	15 DA-B	15 DA-B
Plant-Eval Interval	47 DP-1	47 DP-1	55 DP-1	63 DP-1	63 DP-1
Days After Emergence	25 DE-1	25 DE-1	33 DE-1	41 DE-1	41 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Appl Code	6*	7*	8*	9*	10*
12	Dual II Magnum	1.53 lb ai/a		1.6 pt/a		A	100 a	94 abc	0 b	100 a	76 cd
12	Liberty	0.585 lb ai/a		32 oz/a		B					
12	Tough	0.313 lb ai/a		8 oz/a		B					
12	N PAK-AMS	2.5 % v/v		2.5 % v/v		B					

LSD P=.05	20.8	9.3	0.9	11.8	11.1
Standard Deviation	14.4	6.5	0.7	8.2	7.7
CV	16.35	7.52	284.43	9.61	10.8
Grand Mean	88.3	86.1	0.2	85.6	71.5
Levene's F	1.182	1.707	3.198	1.887	1.612
Levene's Prob(F)	0.333	0.111	0.004*	0.075	0.137
Rank X2	.	.	.	.	.
P(Rank X2)	.	.	.	.	.
Skewness	-2.6156*	-2.7212*	4.909*	-2.6706*	-1.4777*
Kurtosis	5.1698*	6.4362*	27.2324*	6.1921*	1.5149*
Replicate F	1.178	3.059	1.749	0.457	1.038
Replicate Prob(F)	0.3331	0.0417	0.1762	0.7142	0.3885
Treatment F	15.895	72.067	3.045	43.907	53.291
Treatment Prob(F)	0.0001	0.0001	0.0065	0.0001	0.0001

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Weed Control in Liberty Link Corn

Trial ID: 20LLCORN
 Protocol ID: BASFC41,BELCHIM20-112
 Project ID:

Location: Western Branch G-6
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Alice Harris, BASF Dennis Long, Bel

Trial Year: 2020

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	CHEAL	IPOHE	AMARE	ABUTH	SETFA				
Pest Scientific Name	Chenopodium al>	Ipomoea heder>	Amaranthus ret>	Abutilon theop>	Setaria faberi				
Pest Name	common lambsqu>	ivy-leaf morni>	Redroot pigweed	velvetleaf	foxtail, giant				
Crop Type, Code									
BBCH Scale									
Crop Scientific Name									
Crop Name									
Rating Date	Jun-24-2020	Jun-24-2020	Jun-24-2020	Jun-24-2020	Jul-8-2020				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1				
Data Entry Date	Jul-2-2020	Jul-2-2020	Jul-2-2020	Jul-2-2020	Jul-9-2020				
Rating Timing									
Days After First/Last Applic.	63 15	63 15	63 15	63 15	77 29				
Trt-Eval Interval	15 DA-B	15 DA-B	15 DA-B	15 DA-B	29 DA-B				
Plant-Eval Interval	63 DP-1	63 DP-1	63 DP-1	63 DP-1	77 DP-1				
Days After Emergence	41 DE-1	41 DE-1	41 DE-1	41 DE-1	55 DE-1				
Number of Decimals	0	0	0	0	0				
Trt Treatment	Rate	Other	Other	Appl					
No. Name	Rate Unit	Rate	Rate Unit	Code					
					11*				
					12*				
					13*				
					14*				
					15*				
1 UTC					0 d	0 c	0 b	0 c	0 f
2 Verdict	488 g ai/ha	10 oz/a		A	98 a	96 a	100 a	99 a	74 e
2 Atrazine	1120 g ai/ha	32 oz/a		A					
2 Liberty	656 g ai/ha	32 oz/a		B					
2 Atrazine	1120 g ai/ha	32 oz/a		B					
2 N PAK-AMS	5 % v/v	5 % v/v		B					
3 Verdict	488 g ai/ha	10 oz/a		A	100 a	94 a	100 a	100 a	81 b-e
3 Atrazine	1120 g ai/ha	32 oz/a		A					
3 Liberty	656 g ai/ha	32 oz/a		B					
3 Armezon Pro	750 g ai/ha	16 oz/a		B					
3 Atrazine	1120 g ai/ha	32 oz/a		B					
3 N PAK-AMS	5 % v/v	5 % v/v		B					
4 Verdict	488 g ai/ha	10 oz/a		A	100 a	90 ab	100 a	100 a	94 a
4 Atrazine	1120 g ai/ha	32 oz/a		A					
4 Liberty	656 g ai/ha	32 oz/a		B					
4 Armezon Pro	750 g ai/ha	16 oz/a		B					
4 Atrazine	1120 g ai/ha	32 oz/a		B					
4 MSO	1 % v/v	1 % v/v		B					
4 N PAK-AMS	5 % v/v	5 % v/v		B					
5 Verdict	488 g ai/ha	10 oz/a		A	100 a	84 b	100 a	100 a	89 ab
5 Atrazine	1120 g ai/ha	32 oz/a		A					
5 Roundup Powermax	1260 g ai/ha	32 oz/a		B					
5 Armezon Pro	750 g ai/ha	16 oz/a		B					
5 Atrazine	1120 g ai/ha	32 oz/a		B					
5 MSO	1 % v/v	1 % v/v		B					
5 N PAK-AMS	5 % v/v	5 % v/v		B					

The Ohio State University

Weed Control in Liberty Link Corn

Trial ID: 20LLCORN
 Protocol ID: BASFC41,BELCHIM20-112
 Project ID:

Location: Western Branch G-6
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Alice Harris, BASF Dennis Long, Bel

Trial Year: 2020

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	IPOHE	AMARE	ABUTH	SETFA
Pest Scientific Name	Chenopodium al>	Ipomoea heder>	Amaranthus ret>	Abutilon theop>	Setaria faberi
Pest Name	common lambsqu>	ivy-leaf morni>	Redroot pigweed	velvetleaf	foxtail, giant
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jun-24-2020	Jun-24-2020	Jun-24-2020	Jun-24-2020	Jul-8-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jul-2-2020	Jul-2-2020	Jul-2-2020	Jul-2-2020	Jul-9-2020
Rating Timing					
Days After First/Last Applic.	63 15	63 15	63 15	63 15	77 29
Trt-Eval Interval	15 DA-B	15 DA-B	15 DA-B	15 DA-B	29 DA-B
Plant-Eval Interval	63 DP-1	63 DP-1	63 DP-1	63 DP-1	77 DP-1
Days After Emergence	41 DE-1	41 DE-1	41 DE-1	41 DE-1	55 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit	Code	11*	12*	13*	14*	15*
6	Verdict	488 g ai/ha	10 oz/a		A		100 a	90 ab	100 a	100 a	85 a-d
6	Atrazine	1120 g ai/ha	32 oz/a		A						
6	Liberty	656 g ai/ha	32 oz/a		B						
6	Status	98 g ai/ha	2.5 oz/a		B						
6	Atrazine	1120 g ai/ha	32 oz/a		B						
6	N PAK-AMS	5 % v/v	5 % v/v		B						
7	Verdict	488 g ai/ha	10 oz/a		A		100 a	94 a	100 a	100 a	86 abc
7	Atrazine	1120 g ai/ha	32 oz/a		A						
7	Roundup Powermax	1260 g ai/ha	32 oz/a		B						
7	Status	98 g ai/ha	2.5 oz/a		B						
7	Atrazine	1120 g ai/ha	32 oz/a		B						
7	N PAK-AMS	5 % v/v	5 % v/v		B						
8	Resicore	1150 g ai/ha	40 oz/a		A		100 a	94 a	100 a	100 a	75 de
8	Atrazine	1120 g ai/ha	32 oz/a		A						
8	Liberty	656 g ai/ha	32 oz/a		B						
8	Status	98 g ai/ha	2.5 oz/a		B						
8	Atrazine	1120 g ai/ha	32 oz/a		B						
8	N PAK-AMS	5 % v/v	5 % v/v		B						
9	Dual II Magnum	1.53 lb ai/a	1.6 pt/a		A		74 b	96 a	100 a	90 b	76 cde
9	Atrazine	1.5 lb ai/a	3 pt/a		B						
9	COC	1 % v/v	1 % v/v		B						
10	Dual II Magnum	1.53 lb ai/a	1.6 pt/a		A		95 a	96 a	100 a	97 a	76 cde
10	Atrazine	1.5 lb ai/a	3 pt/a		B						
10	Tough	0.313 lb ai/a	8 oz/a		B						
10	COC	1 % v/v	1 % v/v		B						
11	Dual II Magnum	1.53 lb ai/a	1.6 pt/a		A		68 c	93 a	100 a	100 a	85 a-d
11	Liberty	0.585 lb ai/a	32 oz/a		B						
11	N PAK-AMS	2.5 % v/v	2.5 % v/v		B						

The Ohio State University

Weed Control in Liberty Link Corn

Trial ID: 20LLCORN
 Protocol ID: BASFC41,BELCHIM20-112
 Project ID:

Location: Western Branch G-6
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Alice Harris, BASF Dennis Long, Bel

Trial Year: 2020

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	IPOHE	AMARE	ABUTH	SETFA
Pest Scientific Name	Chenopodium al>	Ipomoea hederata>	Amaranthus ret>	Abutilon theop>	Setaria faberi
Pest Name	common lambsqu>	ivy-leaf morni>	Redroot pigweed	velvetleaf	foxtail, giant
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jun-24-2020	Jun-24-2020	Jun-24-2020	Jun-24-2020	Jul-8-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jul-2-2020	Jul-2-2020	Jul-2-2020	Jul-2-2020	Jul-9-2020
Rating Timing					
Days After First/Last Applic.	63 15	63 15	63 15	63 15	77 29
Trt-Eval Interval	15 DA-B	15 DA-B	15 DA-B	15 DA-B	29 DA-B
Plant-Eval Interval	63 DP-1	63 DP-1	63 DP-1	63 DP-1	77 DP-1
Days After Emergence	41 DE-1	41 DE-1	41 DE-1	41 DE-1	55 DE-1
Number of Decimals	0	0	0	0	0

Trt Treatment No. Name	Rate Rate Unit	Other Rate Unit	Other Rate Unit	Appl Code	11*	12*	13*	14*	15*
12 Dual II Magnum	1.53 lb ai/a	1.6 pt/a		A	68 c	98 a	100 a	95 ab	86 abc
12 Liberty	0.585 lb ai/a	32 oz/a		B					
12 Tough	0.313 lb ai/a	8 oz/a		B					
12 N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
LSD P=.05					5.9	8.4	.	5.9	10.2
Standard Deviation					4.1	5.8	0.0	4.1	7.1
CV					4.9	6.83	0.0	4.59	9.39
Grand Mean					83.4	85.3	91.7	90.0	75.6
Levene's F					0.862	0.586	0.00	9.429	0.919
Levene's Prob(F)					0.583	0.827	.	0.001*	0.533
Rank X2					.	.	.	.	.
P(Rank X2)					.	.	.	.	.
Skewness					-2.0933*	-2.7835*	-3.1133*	-2.9699*	-2.4006*
Kurtosis					3.8019*	6.7342*	8.0253*	7.4011*	5.462*
Replicate F					0.864	3.040	0.000	1.455	2.217
Replicate Prob(F)					0.4696	0.0426	1.0000	0.2447	0.1047
Treatment F					207.971	86.652	0.000	190.333	47.996
Treatment Prob(F)					0.0001	0.0001	1.0000	0.0001	0.0001

The Ohio State University

Weed Control in Liberty Link Corn

Trial ID: 20LLCORN
 Protocol ID: BASFC41,BELCHIM20-112
 Project ID:

Location: Western Branch G-6
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Alice Harris, BASF Dennis Long, Bel

Trial Year: 2020

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	IPOHE	AMARE	ABUTH
Pest Scientific Name	Ambrosia trifi>	Chenopodium al>	Ipomoea hederata>	Amaranthus ret>	Abutilon theop>
Pest Name	ragweed, giant	lambsquarters,>	morningglory, >	pigweed, redro>	velvetleaf
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jul-8-2020	Jul-8-2020	Jul-8-2020	Jul-8-2020	Jul-8-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jul-9-2020	Jul-9-2020	Jul-9-2020	Jul-9-2020	Jul-9-2020
Rating Timing					
Days After First/Last Applic.	77 29	77 29	77 29	77 29	77 29
Trt-Eval Interval	29 DA-B	29 DA-B	29 DA-B	29 DA-B	29 DA-B
Plant-Eval Interval	77 DP-1	77 DP-1	77 DP-1	77 DP-1	77 DP-1
Days After Emergence	55 DE-1	55 DE-1	55 DE-1	55 DE-1	55 DE-1
Number of Decimals	0	0	0	0	0

Trt Treatment	Rate	Other	Other	Appl	16*	17*	18*	19*	20*
No. Name	Rate Unit	Rate	Rate Unit	Code					
1 UTC					0 f	0 e	0 d	0 b	0 c
2 Verdict	488 g ai/ha	10 oz/a		A	86 ab	95 ab	79 c	100 a	95 ab
2 Atrazine	1120 g ai/ha	32 oz/a		A					
2 Liberty	656 g ai/ha	32 oz/a		B					
2 Atrazine	1120 g ai/ha	32 oz/a		B					
2 N PAK-AMS	5 % v/v	5 % v/v		B					
3 Verdict	488 g ai/ha	10 oz/a		A	90 ab	100 a	88 bc	100 a	100 a
3 Atrazine	1120 g ai/ha	32 oz/a		A					
3 Liberty	656 g ai/ha	32 oz/a		B					
3 Armezon Pro	750 g ai/ha	16 oz/a		B					
3 Atrazine	1120 g ai/ha	32 oz/a		B					
3 N PAK-AMS	5 % v/v	5 % v/v		B					
4 Verdict	488 g ai/ha	10 oz/a		A	85 ab	100 a	84 bc	100 a	75 b
4 Atrazine	1120 g ai/ha	32 oz/a		A					
4 Liberty	656 g ai/ha	32 oz/a		B					
4 Armezon Pro	750 g ai/ha	16 oz/a		B					
4 Atrazine	1120 g ai/ha	32 oz/a		B					
4 MSO	1 % v/v	1 % v/v		B					
4 N PAK-AMS	5 % v/v	5 % v/v		B					
5 Verdict	488 g ai/ha	10 oz/a		A	92 a	100 a	80 c	100 a	100 a
5 Atrazine	1120 g ai/ha	32 oz/a		A					
5 Roundup Powermax	1260 g ai/ha	32 oz/a		B					
5 Armezon Pro	750 g ai/ha	16 oz/a		B					
5 Atrazine	1120 g ai/ha	32 oz/a		B					
5 MSO	1 % v/v	1 % v/v		B					
5 N PAK-AMS	5 % v/v	5 % v/v		B					

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Weed Control in Liberty Link Corn

Trial ID: 20LLCORN
 Protocol ID: BASFC41,BELCHIM20-112
 Project ID:

Location: Western Branch G-6
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Alice Harris, BASF Dennis Long, Bel

Trial Year: 2020

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	IPOHE	AMARE	ABUTH
Pest Scientific Name	Ambrosia trifida	Chenopodium album	Ipomoea hederacea	Amaranthus retrofractus	Abutilon theophrasti
Pest Name	ragweed, giant	lambsquarters, >	morningglory, >	pigweed, redtop >	velvetleaf
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jul-8-2020	Jul-8-2020	Jul-8-2020	Jul-8-2020	Jul-8-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jul-9-2020	Jul-9-2020	Jul-9-2020	Jul-9-2020	Jul-9-2020
Rating Timing					
Days After First/Last Applic.	77 29	77 29	77 29	77 29	77 29
Trt-Eval Interval	29 DA-B	29 DA-B	29 DA-B	29 DA-B	29 DA-B
Plant-Eval Interval	77 DP-1	77 DP-1	77 DP-1	77 DP-1	77 DP-1
Days After Emergence	55 DE-1	55 DE-1	55 DE-1	55 DE-1	55 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit	Code	16*	17*	18*	19*	20*
6	Verdict	488 g ai/ha	10 oz/a		A		91 a	100 a	83 c	100 a	100 a
6	Atrazine	1120 g ai/ha	32 oz/a		A						
6	Liberty	656 g ai/ha	32 oz/a		B						
6	Status	98 g ai/ha	2.5 oz/a		B						
6	Atrazine	1120 g ai/ha	32 oz/a		B						
6	N PAK-AMS	5 % v/v	5 % v/v		B						
7	Verdict	488 g ai/ha	10 oz/a		A		79 bc	100 a	79 c	100 a	100 a
7	Atrazine	1120 g ai/ha	32 oz/a		A						
7	Roundup Powermax	1260 g ai/ha	32 oz/a		B						
7	Status	98 g ai/ha	2.5 oz/a		B						
7	Atrazine	1120 g ai/ha	32 oz/a		B						
7	N PAK-AMS	5 % v/v	5 % v/v		B						
8	Resicore	1150 g ai/ha	40 oz/a		A		88 ab	100 a	80 c	100 a	95 ab
8	Atrazine	1120 g ai/ha	32 oz/a		A						
8	Liberty	656 g ai/ha	32 oz/a		B						
8	Status	98 g ai/ha	2.5 oz/a		B						
8	Atrazine	1120 g ai/ha	32 oz/a		B						
8	N PAK-AMS	5 % v/v	5 % v/v		B						
9	Dual II Magnum	1.53 lb ai/a	1.6 pt/a		A		48 e	86 bc	95 ab	100 a	94 ab
9	Atrazine	1.5 lb ai/a	3 pt/a		B						
9	COC	1 % v/v	1 % v/v		B						
10	Dual II Magnum	1.53 lb ai/a	1.6 pt/a		A		68 cd	84 c	80 c	100 a	95 ab
10	Atrazine	1.5 lb ai/a	3 pt/a		B						
10	Tough	0.313 lb ai/a	8 oz/a		B						
10	COC	1 % v/v	1 % v/v		B						
11	Dual II Magnum	1.53 lb ai/a	1.6 pt/a		A		63 d	61 d	100 a	100 a	100 a
11	Liberty	0.585 lb ai/a	32 oz/a		B						
11	N PAK-AMS	2.5 % v/v	2.5 % v/v		B						

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Weed Control in Liberty Link Corn

Trial ID: 20LLCORN
 Protocol ID: BASFC41,BELCHIM20-112
 Project ID:

Location: Western Branch G-6
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Alice Harris, BASF Dennis Long, Bel

Trial Year: 2020

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	IPOHE	AMARE	ABUTH
Pest Scientific Name	Ambrosia trifid	Chenopodium album	Ipomoea hederacea	Amaranthus retrofractus	Abutilon theophrasti
Pest Name	ragweed, giant	lambsquarters, >	morningglory, >	pigweed, redtop	velvetleaf
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jul-8-2020	Jul-8-2020	Jul-8-2020	Jul-8-2020	Jul-8-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jul-9-2020	Jul-9-2020	Jul-9-2020	Jul-9-2020	Jul-9-2020
Rating Timing					
Days After First/Last Applic.	77 29	77 29	77 29	77 29	77 29
Trt-Eval Interval	29 DA-B	29 DA-B	29 DA-B	29 DA-B	29 DA-B
Plant-Eval Interval	77 DP-1	77 DP-1	77 DP-1	77 DP-1	77 DP-1
Days After Emergence	55 DE-1	55 DE-1	55 DE-1	55 DE-1	55 DE-1
Number of Decimals	0	0	0	0	0

Trt Treatment	Rate	Other	Other	Appl	16*	17*	18*	19*	20*
No. Name	Rate Unit	Rate	Rate Unit	Code					
12 Dual II Magnum	1.53 lb ai/a	1.6 pt/a		A	70 cd	64 d	84 bc	100 a	100 a
12 Liberty	0.585 lb ai/a	32 oz/a		B					
12 Tough	0.313 lb ai/a	8 oz/a		B					
12 N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
LSD P=.05					12.4	11.1	12.4	.	22.4
Standard Deviation					8.6	7.7	8.6	0.0	15.6
CV					12.06	9.37	11.14	0.0	17.75
Grand Mean					71.5	82.5	77.5	91.7	87.8
Levene's F					1.275	3.736	1.708	0.00	0.857
Levene's Prob(F)					0.278	0.001*	0.111	.	0.588
Rank X2					.	.	.	.	.
P(Rank X2)					.	.	.	.	.
Skewness					-1.7061*	-1.9184*	-2.282*	-3.1133*	-2.5292*
Kurtosis					2.4283*	2.9922*	5.1278*	8.0253*	4.8409*
Replicate F					0.973	0.860	0.522	0.000	0.900
Replicate Prob(F)					0.4172	0.4713	0.6701	1.0000	0.4515
Treatment F					37.364	58.567	34.383	0.000	13.413
Treatment Prob(F)					0.0001	0.0001	0.0001	1.0000	0.0001

The Ohio State University

Weed Control in Liberty Link Corn

Trial ID: 20LLCORN
 Protocol ID: BASFC41,BELCHIM20-112
 Project ID:

Location: Western Branch G-6
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Alice Harris, BASF Dennis Long, Bel

Trial Year: 2020

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOHE	AMARE
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea hederacea	Amaranthus retrofractus
Pest Name	foxtail, giant ragweed,	giant ragweed,	giant common lambsqu	morningglory, >	pigweed, redro>
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jul-22-2020	Jul-22-2020	Jul-22-2020	Jul-22-2020	Jul-22-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jul-27-2020	Jul-27-2020	Jul-27-2020	Jul-27-2020	Jul-27-2020
Rating Timing					
Days After First/Last Applic.	91 43	91 43	91 43	91 43	91 43
Trt-Eval Interval					
Plant-Eval Interval	91 DP-1	91 DP-1	91 DP-1	91 DP-1	91 DP-1
Days After Emergence	69 DE-1	69 DE-1	69 DE-1	69 DE-1	69 DE-1
Number of Decimals					

Trt Treatment No. Name	Rate	Unit	Other Rate	Other Rate	Appl Unit Code	21*	22*	23*	24*	25*
1 UTC						0.0 e	0.0 d	0.0 e	0.0 e	0.0 c
2 Verdict	488 g ai/ha		10 oz/a		A	76.3 d	100.0 a	100.0 a	83.3 bcd	97.5 ab
2 Atrazine	1120 g ai/ha		32 oz/a		A					
2 Liberty	656 g ai/ha		32 oz/a		B					
2 Atrazine	1120 g ai/ha		32 oz/a		B					
2 N PAK-AMS	5 % v/v		5 % v/v		B					
3 Verdict	488 g ai/ha		10 oz/a		A	86.3 cd	85.0 a	100.0 a	83.8 bcd	100.0 a
3 Atrazine	1120 g ai/ha		32 oz/a		A					
3 Liberty	656 g ai/ha		32 oz/a		B					
3 Armezon Pro	750 g ai/ha		16 oz/a		B					
3 Atrazine	1120 g ai/ha		32 oz/a		B					
3 N PAK-AMS	5 % v/v		5 % v/v		B					
4 Verdict	488 g ai/ha		10 oz/a		A	86.3 cd	85.0 a	100.0 a	90.0 abc	100.0 a
4 Atrazine	1120 g ai/ha		32 oz/a		A					
4 Liberty	656 g ai/ha		32 oz/a		B					
4 Armezon Pro	750 g ai/ha		16 oz/a		B					
4 Atrazine	1120 g ai/ha		32 oz/a		B					
4 MSO	1 % v/v		1 % v/v		B					
4 N PAK-AMS	5 % v/v		5 % v/v		B					
5 Verdict	488 g ai/ha		10 oz/a		A	88.8 abc	96.3 a	100.0 a	81.3 cd	96.3 b
5 Atrazine	1120 g ai/ha		32 oz/a		A					
5 Roundup Powermax	1260 g ai/ha		32 oz/a		B					
5 Armezon Pro	750 g ai/ha		16 oz/a		B					
5 Atrazine	1120 g ai/ha		32 oz/a		B					
5 MSO	1 % v/v		1 % v/v		B					
5 N PAK-AMS	5 % v/v		5 % v/v		B					

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Weed Control in Liberty Link Corn

Trial ID: 20LLCORN
 Protocol ID: BASFC41,BELCHIM20-112
 Project ID:

Location: Western Branch G-6
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Alice Harris, BASF Dennis Long, Bel

Trial Year: 2020

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOHE	AMARE
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea hederacea	Amaranthus retrofractus
Pest Name	foxtail, giant ragweed,	giant ragweed,	giant common lambsqu	morningglory, >	pigweed, redro>
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jul-22-2020	Jul-22-2020	Jul-22-2020	Jul-22-2020	Jul-22-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jul-27-2020	Jul-27-2020	Jul-27-2020	Jul-27-2020	Jul-27-2020
Rating Timing					
Days After First/Last Applic.	91 43	91 43	91 43	91 43	91 43
Trt-Eval Interval					
Plant-Eval Interval	91 DP-1	91 DP-1	91 DP-1	91 DP-1	91 DP-1
Days After Emergence	69 DE-1	69 DE-1	69 DE-1	69 DE-1	69 DE-1
Number of Decimals					

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit	Code	21*	22*	23*	24*	25*
6	Verdict	488 g ai/ha	10 oz/a			A	88.8 abc	95.0 a	100.0 a	88.8 abc	100.0 a
6	Atrazine	1120 g ai/ha	32 oz/a			A					
6	Liberty	656 g ai/ha	32 oz/a			B					
6	Status	98 g ai/ha	2.5 oz/a			B					
6	Atrazine	1120 g ai/ha	32 oz/a			B					
6	N PAK-AMS	5 % v/v	5 % v/v			B					
7	Verdict	488 g ai/ha	10 oz/a			A	90.0 abc	88.8 a	100.0 a	81.3 cd	100.0 a
7	Atrazine	1120 g ai/ha	32 oz/a			A					
7	Roundup Powermax	1260 g ai/ha	32 oz/a			B					
7	Status	98 g ai/ha	2.5 oz/a			B					
7	Atrazine	1120 g ai/ha	32 oz/a			B					
7	N PAK-AMS	5 % v/v	5 % v/v			B					
8	Resicore	1150 g ai/ha	40 oz/a			A	82.5 cd	93.8 a	100.0 a	76.3 d	100.0 a
8	Atrazine	1120 g ai/ha	32 oz/a			A					
8	Liberty	656 g ai/ha	32 oz/a			B					
8	Status	98 g ai/ha	2.5 oz/a			B					
8	Atrazine	1120 g ai/ha	32 oz/a			B					
8	N PAK-AMS	5 % v/v	5 % v/v			B					
9	Dual II Magnum	1.53 lb ai/a	1.6 pt/a			A	100.0 a	50.0 c	91.3 b	95.0 ab	100.0 a
9	Atrazine	1.5 lb ai/a	3 pt/a			B					
9	COC	1 % v/v	1 % v/v			B					
10	Dual II Magnum	1.53 lb ai/a	1.6 pt/a			A	87.5 bcd	66.3 b	93.8 ab	85.0 bcd	100.0 a
10	Atrazine	1.5 lb ai/a	3 pt/a			B					
10	Tough	0.313 lb ai/a	8 oz/a			B					
10	COC	1 % v/v	1 % v/v			B					
11	Dual II Magnum	1.53 lb ai/a	1.6 pt/a			A	92.5 abc	65.0 bc	60.0 d	100.0 a	100.0 a
11	Liberty	0.585 lb ai/a	32 oz/a			B					
11	N PAK-AMS	2.5 % v/v	2.5 % v/v			B					

The Ohio State University

Weed Control in Liberty Link Corn

Trial ID: 20LLCORN
 Protocol ID: BASFC41,BELCHIM20-112
 Project ID:

Location: Western Branch G-6
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Alice Harris, BASF Dennis Long, Bel

Trial Year: 2020

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	IPOHE	AMARE
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Chenopodium album	Ipomoea hederacea	Amaranthus retrofractus
Pest Name	foxtail, giant ragweed,	giant ragweed,	giant common lambsqu	morningglory, >	pigweed, redro>
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jul-22-2020	Jul-22-2020	Jul-22-2020	Jul-22-2020	Jul-22-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jul-27-2020	Jul-27-2020	Jul-27-2020	Jul-27-2020	Jul-27-2020
Rating Timing					
Days After First/Last Applic.	91 43	91 43	91 43	91 43	91 43
Trt-Eval Interval					
Plant-Eval Interval	91 DP-1	91 DP-1	91 DP-1	91 DP-1	91 DP-1
Days After Emergence	69 DE-1	69 DE-1	69 DE-1	69 DE-1	69 DE-1
Number of Decimals					

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	21*	22*	23*	24*	25*
12	Dual II Magnum	1.53 lb ai/a	1.6 pt/a		A	98.8 ab	66.3 b	71.3 c	100.0 a	100.0 a
12	Liberty	0.585 lb ai/a	32 oz/a		B					
12	Tough	0.313 lb ai/a	8 oz/a		B					
12	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
LSD P=.05						11.80	16.16	7.62	12.31	3.58
Standard Deviation						8.20	11.23	5.30	8.56	2.49
CV						10.07	15.12	6.25	10.65	2.73
Grand Mean						81.46	74.27	84.69	80.38	91.15
Levene's F						4.133	1.266	2.258	1.921	0.916
Levene's Prob(F)						0.001*	0.282	0.033*	0.069	0.536
Rank X2						.	.	.	.	.
P(Rank X2)						.	.	.	.	.
Skewness						-2.4645*	-1.449*	-2.1543*	-2.3032*	-3.0697*
Kurtosis						5.527*	1.6353*	3.8341*	5.0312*	7.8373*
Replicate F						0.093	0.345	0.959	0.384	2.099
Replicate Prob(F)						0.9634	0.7926	0.4234	0.7650	0.1192
Treatment F						41.592	25.118	126.137	38.078	532.298
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001	0.0001

The Ohio State University

Weed Control in Liberty Link Corn

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 Project ID:

Location: Western Branch G-6
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Alice Harris, BASF Dennis Long, Bel

Trial Year: 2020

Pest Type W Weed
 Pest Code ABUTH
 Pest Scientific Name Abutilon theop>
 Pest Name velvetleaf
 Crop Type, Code
 BBCH Scale
 Crop Scientific Name
 Crop Name
 Rating Date Jul-22-2020
 Rating Type CONTRO
 Rating Unit %
 Number of Subsamples 1
 Data Entry Date Jul-27-2020
 Rating Timing
 Days After First/Last Applic. 91 43
 Trt-Eval Interval
 Plant-Eval Interval 91 DP-1
 Days After Emergence 69 DE-1
 Number of Decimals

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Appl Code	26*
1	UTC						0.0 b
2	Verdict	488 g	ai/ha	10 oz/a		A	97.5 a
2	Atrazine	1120 g	ai/ha	32 oz/a		A	
2	Liberty	656 g	ai/ha	32 oz/a		B	
2	Atrazine	1120 g	ai/ha	32 oz/a		B	
2	N PAK-AMS	5 %	v/v	5 %	v/v	B	
3	Verdict	488 g	ai/ha	10 oz/a		A	100.0 a
3	Atrazine	1120 g	ai/ha	32 oz/a		A	
3	Liberty	656 g	ai/ha	32 oz/a		B	
3	Armezon Pro	750 g	ai/ha	16 oz/a		B	
3	Atrazine	1120 g	ai/ha	32 oz/a		B	
3	N PAK-AMS	5 %	v/v	5 %	v/v	B	
4	Verdict	488 g	ai/ha	10 oz/a		A	100.0 a
4	Atrazine	1120 g	ai/ha	32 oz/a		A	
4	Liberty	656 g	ai/ha	32 oz/a		B	
4	Armezon Pro	750 g	ai/ha	16 oz/a		B	
4	Atrazine	1120 g	ai/ha	32 oz/a		B	
4	MSO	1 %	v/v	1 %	v/v	B	
4	N PAK-AMS	5 %	v/v	5 %	v/v	B	
5	Verdict	488 g	ai/ha	10 oz/a		A	100.0 a
5	Atrazine	1120 g	ai/ha	32 oz/a		A	
5	Roundup Powermax	1260 g	ai/ha	32 oz/a		B	
5	Armezon Pro	750 g	ai/ha	16 oz/a		B	
5	Atrazine	1120 g	ai/ha	32 oz/a		B	
5	MSO	1 %	v/v	1 %	v/v	B	
5	N PAK-AMS	5 %	v/v	5 %	v/v	B	

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Trial Year: 2020

Pest Type W Weed
 Pest Code ABUTH
 Pest Scientific Name Abutilon theop>
 Pest Name velvetleaf
 Crop Type, Code
 BBCH Scale
 Crop Scientific Name
 Crop Name
 Rating Date Jul-22-2020
 Rating Type CONTRO
 Rating Unit %
 Number of Subsamples 1
 Data Entry Date Jul-27-2020
 Rating Timing
 Days After First/Last Applic. 91 43
 Trt-Eval Interval
 Plant-Eval Interval 91 DP-1
 Days After Emergence 69 DE-1
 Number of Decimals

Trt No.	Treatment Name	Rate	Other Rate	Other Unit	Appl Code	26*
6	Verdict	488 g ai/ha	10 oz/a		A	99.5 a
6	Atrazine	1120 g ai/ha	32 oz/a		A	
6	Liberty	656 g ai/ha	32 oz/a		B	
6	Status	98 g ai/ha	2.5 oz/a		B	
6	Atrazine	1120 g ai/ha	32 oz/a		B	
6	N PAK-AMS	5 % v/v	5 % v/v		B	
7	Verdict	488 g ai/ha	10 oz/a		A	100.0 a
7	Atrazine	1120 g ai/ha	32 oz/a		A	
7	Roundup Powermax	1260 g ai/ha	32 oz/a		B	
7	Status	98 g ai/ha	2.5 oz/a		B	
7	Atrazine	1120 g ai/ha	32 oz/a		B	
7	N PAK-AMS	5 % v/v	5 % v/v		B	
8	Resicore	1150 g ai/ha	40 oz/a		A	98.8 a
8	Atrazine	1120 g ai/ha	32 oz/a		A	
8	Liberty	656 g ai/ha	32 oz/a		B	
8	Status	98 g ai/ha	2.5 oz/a		B	
8	Atrazine	1120 g ai/ha	32 oz/a		B	
8	N PAK-AMS	5 % v/v	5 % v/v		B	
9	Dual II Magnum	1.53 lb ai/a	1.6 pt/a		A	100.0 a
9	Atrazine	1.5 lb ai/a	3 pt/a		B	
9	COC	1 % v/v	1 % v/v		B	
10	Dual II Magnum	1.53 lb ai/a	1.6 pt/a		A	97.5 a
10	Atrazine	1.5 lb ai/a	3 pt/a		B	
10	Tough	0.313 lb ai/a	8 oz/a		B	
10	COC	1 % v/v	1 % v/v		B	
11	Dual II Magnum	1.53 lb ai/a	1.6 pt/a		A	100.0 a
11	Liberty	0.585 lb ai/a	32 oz/a		B	
11	N PAK-AMS	2.5 % v/v	2.5 % v/v		B	

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Trial Year: 2020

Pest Type W Weed
 Pest Code ABUTH
 Pest Scientific Name Abutilon theop>
 Pest Name velvetleaf
 Crop Type, Code
 BBCH Scale
 Crop Scientific Name
 Crop Name
 Rating Date Jul-22-2020
 Rating Type CONTRO
 Rating Unit %
 Number of Subsamples 1
 Data Entry Date Jul-27-2020
 Rating Timing
 Days After First/Last Applic. 91 43
 Trt-Eval Interval
 Plant-Eval Interval 91 DP-1
 Days After Emergence 69 DE-1
 Number of Decimals

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Appl Code	26*
12	Dual II Magnum	1.53 lb ai/a		1.6 pt/a		A	100.0 a
12	Liberty	0.585 lb ai/a		32 oz/a		B	
12	Tough	0.313 lb ai/a		8 oz/a		B	
12	N PAK-AMS	2.5 % v/v		2.5 % v/v		B	

LSD P=.05 2.56
 Standard Deviation 1.78
 CV 1.95
 Grand Mean 91.10
 Levene's F 1.423
 Levene's Prob(F) 0.205
 Rank X2 .
 P(Rank X2) .
 Skewness -3.0894*
 Kurtosis 7.9269*
 Replicate F 1.813
 Replicate Prob(F) 0.1639
 Treatment F 1040.713
 Treatment Prob(F) 0.0001

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Weed Control in Liberty Link Corn

Trial ID: 20LLCORN
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Sponsor Contact: Alice Harris, BASF Dennis Long, Bel

Trial Year: 2020

Pest Type

W, Weed = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, Giant foxtail = US
AMBTR, Ambrosia trifida, Giant ragweed = US
CHEAL, Chenopodium album, common lambsquarters = US
IPOHE, Ipomoea hederacea, ivy-leaf morning glory = US
AMARE, Amaranthus retroflexus, Redroot pigweed = US
ABUTH, Abutilon theophrasti, velvetleaf = US
SETFA, Setaria faberi, foxtail, giant = US
AMBTR, Ambrosia trifida, ragweed, giant = US
CHEAL, Chenopodium album, lambsquarters, common = US
IPOHE, Ipomoea hederacea, morningglory, ivyleaf = US
AMARE, Amaranthus retroflexus, pigweed, redroot = US

Crop Type Code

C = EPPO species (Bayer) codes
ZEAMX, BCOR, Zea mays, Corn = US

Rating Type

PHYGEN = phytotoxicity - general / injury
CONTRO = control / burndown or knockdown

Rating Unit

% = percent

Plant-Eval Interval

47 DP-1 = 1 ZEAMD Apr-22-2020
55 DP-1 = 1 ZEAMD Apr-22-2020
63 DP-1 = 1 ZEAMD Apr-22-2020
77 DP-1 = 1 ZEAMD Apr-22-2020
91 DP-1 = 1 ZEAMD Apr-22-2020