

The Ohio State University  
University Evaluation of A22102F applied as a preplant burndown in glyphosate tolerant corn

Trial ID: 18A22102      Location: Western Branch F-10 W      Trial Year: 2018  
Protocol ID: 18A22102      Investigator: Dr. Mark M. Loux  
Project ID:      Study Director: Anthony Dobbels  
Sponsor Contact:

### General Trial Information

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

### Trial Location

**City:** South Charleston      **Country:** USA United States  
**State/Prov.:** Ohio  
**Postal Code:** 45368      **Climate Zone:** USWARM US Warm Continental

**Latitude of LL Corner** °: 39.85873      N  
**Longitude of LL Corner** °: 93.67249      W  
**Altitude of LL Corner, Unit:** 1089.00 FT

**Conducted Under GLP:** No  
**Conducted Under GEP:** No

### Contacts

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

### Crop Description

**Crop 1:** ZEAMX Zea mays      Corn  
**Variety:** SCS1125YHR  
**Description:** RR/LL

**Planting Rate, Unit:** 32097 S/A  
**Depth, Unit:** 1.75 IN  
**Row Spacing, Unit:** 30 IN  
**Rows per Plot:** 4  
**Soil Moisture:** NORMAL normal, adequate  
**Seed Bed:** MEDTRA medium/trashy

**Planting Date:** Jun-19-2018  
**Planting Method:** PLANTD planted  
**Planting Equipment:** FPP finger pickup planter  
**Emergence Date:** Jun-25-2018

### Pest Description

**Pest 1 Type:** W      **Code:** ERICA Erigeron canadensis  
**Common Name:** Canada horseweed

**Pest 2 Type:** W      **Code:** SETFA Setaria faberi  
**Common Name:** Giant foxtail

**Pest 3 Type:** W      **Code:** ECHCG Echinochloa crus-galli  
**Common Name:** Common barnyard grass

**Pest 4 Type:** W      **Code:** AMBTR Ambrosia trifida  
**Common Name:** Giant ragweed

### Site and Design

**Treated Plot Width:** 6.67 FT  
**Treated Plot Length:** 30 FT  
**Treated Plot Area:** 200.1 FT2      **Treatments:** 8  
**Replications:** 3  
**Site Type:** FIELD field  
**Experimental Unit:** 1 PLOT plot  
**Tillage Type:** NOTILL no-till  
**Study Design:** RACOB� Randomized Complete Block (RCB)

**No. Previous Crop Year**  
1. Soybean      2017

### Soil Description

**Description Name:** F-10 W  
**% Sand:** 31      **% OM:** 1.6      **Texture:** L loam  
**% Silt:** 54      **pH:** 6.5      **Soil Name:** Crosby  
**% Clay:** 15      **CEC:** 11.8      **Fert. Level:** G good  
**Soil Drainage:** G good

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#### Application Description

	A	B
Application Date:	Jun-14-2018	Jul-13-2018
Appl. Start Time:	11:00 AM	9:45 AM
Appl. Stop Time:	11:15 AM	10:00 AM
Application Method:	SPRAY	SPRAY
Application Timing:	7 EPP	POST
Application Placement:	BROFOL	BROFOL
Applied By:	Reeb	Dobbels
Air Temperature, Unit:	74 F	82 F
% Relative Humidity:	54	58
Wind Velocity, Unit:	5 MPH	0 MPH
Wind Direction:	ENE	
Dew Presence (Y/N):	N no	Y yes
Soil Temperature, Unit:	72 F	71 F
Soil Moisture:	WET	SLIDRY
% Cloud Cover:	0	15
Next Moisture Occurred On:	Jun-19-2018	Jul-19-2018
Time to Next Moisture, Unit:	5 DAY	6 DAY
Moisture 1 Week after Appl.:	0.35 IN	0.35 IN

#### Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		15 100
Height, Unit:		27 IN
Height Minimum, Maximum:		25 29

#### Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	ERICA W	ERICA W
Stage Majority, Percent:	19 100	
Diameter, Unit:	1 IN	
Height, Unit:	5 IN	
Height Minimum, Maximum:	4 6	
Density, Unit:	65 M2	
Pest 2 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:	15 100	21 100
Height, Unit:	6 IN	15 IN
Height Minimum, Maximum:	5 6	2 20
Density, Unit:	236 M2	
Pest 3 Code, Type, Scale:	ECHCG W	ECHCG W
Stage Majority, Percent:	13 100	24 100
Height, Unit:	9 IN	15 IN
Height Minimum, Maximum:	6 9	2 18
Density, Unit:	36 M2	
Pest 4 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	18 80	19 100
Stage Minimum, Percent:	16 20	
Stage Maximum, Percent:	18 80	
Height, Unit:	6 IN	15 IN
Height Minimum, Maximum:	4 6	4 21
Density, Unit:	8 M2	

#### Application Equipment

	A	B
Appl. Equipment:	6 foot AIXR	6 foot AIXR
Equipment Type:	SPRBAC	SPRBAC
Operation Pressure, Unit:	42 PSI	42 PSI
Nozzle Type:	AIXR	AIXR
Nozzle Size:	110015	110015
Nozzle Spacing, Unit:	18 IN	18 IN
Boom Length, Unit:	6.67 FT	6.67 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 GPA	15 GPA
Mix Size, Unit:	1 L	1 Liters
Propellant:	COMCO2	COMCO2

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 Project ID:      Study Director: Anthony Dobbels  
                                  Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	ERICA	SETFA	ECHCG	AMBTR	ERICA				
Pest Name	Canada horsewe>	Giant foxtail	Common Giant ragweed	Common Giant ragweed	Canada horsewe>				
Crop Code					ZEAMX				
Crop Name					Corn				
Rating Date	Jun-21-2018	Jun-21-2018	Jun-21-2018	Jun-21-2018	Jun-28-2018				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN				
Rating Unit	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1				
Days After First/Last Applic.	7 7	7 7	7 7	7 7	14 14				
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	7 DA-A	14 DA-A				
Days After Emergence	-4 DE-1	-4 DE-1	-4 DE-1	-4 DE-1	3 DE-1				
ARM Action Codes									
Number of Decimals	0	0	0	0	0				
Trt Treatment	Other Rate	Other Rate	Appl Unit Code	1*	2*	3*	4*	5*	6*
1 UTC				0 b	0 -	0 d	0 b	0 -	0 b
2 NIS	0.25 % v/v		A	86 a	100 -	47 bc	92 a	0 -	97 a
Gramoxone	3.3 pt/a		A						
3 NIS	0.3 pt/a		A	98 a	100 -	37 c	90 a	0 -	97 a
A22102F	5 pt/a		A						
4 NIS	0.3 pt/a		A	97 a	100 -	40 bc	90 a	0 -	100 a
A22102F	5 pt/a		A						
N Pak AMS	2.5 % v/v		B						
NIS	0.25 % v/v		B						
Halex GT	3.6 pt/a		B						
5 NIS	0.3 pt/a		A	97 a	100 -	73 a	90 a	0 -	97 a
AAtrex	1 qt/a		A						
A22102F	5 pt/a		A						
N Pak AMS	2.5 % v/v		B						
NIS	0.25 % v/v		B						
Halex GT	3.6 pt/a		B						
6 NIS	0.3 pt/a		A	100 a	100 -	57 b	100 a	0 -	100 a
Callisto	3 oz/a		A						
AAtrex	1 qt/a		A						
A22102F	5 pt/a		A						
N Pak AMS	2.5 % v/v		B						
NIS	0.25 % v/v		B						
Halex GT	3.6 pt/a		B						
7 Harness Xtra 5.6	1.5 qt/a		A	93 a	100 -	47 bc	87 a	0 -	100 a
Roundup PowerMax	1 qt/a		A						
N Pak AMS	2.5 % v/v		B						
Impact	1 oz/a		B						
Roundup PowerMax	1 qt/a		B						
8 NIS	0.3 pt/a		A	100 a	100 -	78 a	100 a	0 -	100 a
Sencor 75DF	5.3 oz/a		A						
A22102F	5 pt/a		A						
N Pak AMS	2.5 % v/v		B						
NIS	0.25 % v/v		B						
Halex GT	3.6 pt/a		B						
LSD P=.05				8.8	.	12.9	10.0	.	6.2
Standard Deviation				5.0	0.0	7.4	5.7	0.0	3.5
CV				6.0	0.0	15.58	7.04	0.0	4.1
Levene's F				0.725	0.00	0.698	0.933	0.00	0.714
Levene's Prob(F)				0.654	.	0.673	0.508	.	0.661
Skewness				-2.266*	-2.4219*	-0.5422	-2.2244*	.	-2.376*
Kurtosis				3.7086*	4.2103*	0.1256	3.6281*	.	4.0656*
Replicate F				2.024	0.000	0.364	0.416	0.000	1.000
Replicate Prob(F)				0.1690	1.0000	0.7010	0.6679	1.0000	0.3927
Treatment F				138.467	0.000	32.611	100.890	0.000	292.143
Treatment Prob(F)				0.0001	1.0000	0.0001	0.0001	1.0000	0.0001

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 Project ID:      Study Director: Anthony Dobbels  
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	ECHCG	AMBTR	AMARE	ERICA				
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	Redroot pigweed	Canada horsewe>				
Crop Code					ZEAMX				
Crop Name					Corn				
Rating Date	Jun-28-2018	Jun-28-2018	Jun-28-2018	Jun-28-2018	Jul-12-2018				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1				
Days After First/Last Applic.	14 14	14 14	14 14	14 14	28 28				
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	28 DA-A				
Days After Emergence	3 DE-1	3 DE-1	3 DE-1	3 DE-1	17 DE-1				
ARM Action Codes	EC	EC	EC	EC	EC				
Number of Decimals	0	0	0	0	0				
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	7*	8*	9*	10*	11*	12*
1 UTC				0	0 c	0	0 -	0 -	0 -
2 NIS	0.25 % v/v		A	87 -	30 b	83 -	100 -	0 -	100 -
Gramoxone	3.3 pt/a		A						
3 NIS	0.3 pt/a		A	87 -	33 b	85 -	100 -	0 -	100 -
A22102F	5 pt/a		A						
4 NIS	0.3 pt/a		A	92 -	38 b	78 -	100 -	0 -	100 -
A22102F	5 pt/a		A						
N Pak AMS	2.5 % v/v		B						
NIS	0.25 % v/v		B						
Hallex GT	3.6 pt/a		B						
5 NIS	0.3 pt/a		A	98 -	78 a	90 -	100 -	0 -	100 -
AAtrex	1 qt/a		A						
A22102F	5 pt/a		A						
N Pak AMS	2.5 % v/v		B						
NIS	0.25 % v/v		B						
Hallex GT	3.6 pt/a		B						
6 NIS	0.3 pt/a		A	98 -	75 a	95 -	100 -	0 -	100 -
Callisto	3 oz/a		A						
AAtrex	1 qt/a		A						
A22102F	5 pt/a		A						
N Pak AMS	2.5 % v/v		B						
NIS	0.25 % v/v		B						
Hallex GT	3.6 pt/a		B						
7 Harness Xtra 5.6	1.5 qt/a		A	100 -	73 a	87 -	100 -	0 -	100 -
Roundup PowerMax	1 qt/a		A						
N Pak AMS	2.5 % v/v		B						
Impact	1 oz/a		B						
Roundup PowerMax	1 qt/a		B						
8 NIS	0.3 pt/a		A	80 -	80 a	87 -	100 -	0 -	100 -
Sencor 75DF	5.3 oz/a		A						
A22102F	5 pt/a		A						
N Pak AMS	2.5 % v/v		B						
NIS	0.25 % v/v		B						
Hallex GT	3.6 pt/a		B						
LSD P=.05				12.8	13.6	15.1	.	.	.
Standard Deviation				7.2	7.8	8.5	0.0	0.0	0.0
CV				7.82	15.28	9.85	0.0	0.0	0.0
Levene's F				1.492	0.953	0.274	0.00	0.00	0.00
Levene's Prob(F)				0.251	0.495	0.94	.	.	.
Skewness				-0.8031	-0.3718	0.0615	-2.4219*	.	-2.4219*
Kurtosis				-0.3904	-1.0718	-1.0733	4.2103*	.	4.2103*
Replicate F				0.649	0.859	2.961	0.000	0.000	0.000
Replicate Prob(F)				0.5401	0.4448	0.0901	1.0000	1.0000	1.0000
Treatment F				3.351	43.490	1.113	0.000	0.000	0.000
Treatment Prob(F)				0.0354	0.0001	0.4097	1.0000	1.0000	1.0000

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Protocol ID: 18A22102      Investigator: Dr. Mark M. Loux  
Project ID:      Study Director: Anthony Dobbels  
Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed					
Pest Code	SETFA	ECHCG	AMBTR	AMARE					
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	Redroot pigweed					
Crop Code					ZEAMX	ZEAMX			
Crop Name					Corn	Corn			
Rating Date	Jul-12-2018	Jul-12-2018	Jul-12-2018	Jul-12-2018	Jul-19-2018	Jul-26-2018			
Rating Type	CONTROL	CONTRO	CONTRO	CONTROL	PHYGEN	PHYGEN			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Days After First/Last Applic.	28 28	28 28	28 28	28 28	35 6	42 13			
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A	28 DA-A	6 DA-B	13 DA-B			
Days After Emergence	17 DE-1	17 DE-1	17 DE-1	17 DE-1	24 DE-1	31 DE-1			
ARM Action Codes	EC		AA						
Number of Decimals	0	0	0	0	0	0			
Trt Treatment	Other	Other	Appl						
No. Name	Rate	Rate	Unit Code	13*	14*	15*	16*	17*	18*
1 UTC				0	0 b	0 c	0 c	0 -	0 -
2 NIS	0.25 % v/v		A	60 -	33 a	98 ab	100 a	0 -	0 -
Gramoxone	3.3 pt/a		A						
3 NIS	0.3 pt/a		A	53 -	30 a	78 ab	100 a	0 -	0 -
A22102F	5 pt/a		A						
4 NIS	0.3 pt/a		A	50 -	30 a	79 ab	100 a	0 -	0 -
A22102F	5 pt/a		A						
N Pak AMS	2.5 % v/v		B						
NIS	0.25 % v/v		B						
Halex GT	3.6 pt/a		B						
5 NIS	0.3 pt/a		A	85 -	60 a	91 ab	100 a	0 -	0 -
AAtrex	1 qt/a		A						
A22102F	5 pt/a		A						
N Pak AMS	2.5 % v/v		B						
NIS	0.25 % v/v		B						
Halex GT	3.6 pt/a		B						
6 NIS	0.3 pt/a		A	67 -	53 a	100 a	100 a	0 -	0 -
Callisto	3 oz/a		A						
AAtrex	1 qt/a		A						
A22102F	5 pt/a		A						
N Pak AMS	2.5 % v/v		B						
NIS	0.25 % v/v		B						
Halex GT	3.6 pt/a		B						
7 Harness Xtra 5.6	1.5 qt/a		A	73 -	57 a	88 ab	100 a	0 -	0 -
Roundup PowerMax	1 qt/a		A						
N Pak AMS	2.5 % v/v		B						
Impact	1 oz/a		B						
Roundup PowerMax	1 qt/a		B						
8 NIS	0.3 pt/a		A	63 -	50 a	50 b	80 b	0 -	0 -
Sencor 75DF	5.3 oz/a		A						
A22102F	5 pt/a		A						
N Pak AMS	2.5 % v/v		B						
NIS	0.25 % v/v		B						
Halex GT	3.6 pt/a		B						
LSD P=.05				27.1	19.8	17.6 - 38.1	12.4	.	.
Standard Deviation				15.2	11.3	14.2t	7.1	0.0	0.0
CV				23.61	28.88	23.51t	8.32	0.0	0.0
Levene's F				0.592	1.323	1.163	4.00	0.00	0.00
Levene's Prob(F)				0.732	0.302	0.376	0.01*	.	.
Skewness				-0.3765	-0.0842	-0.9116	-2.1635*	.	.
Kurtosis				-0.1135	0.1165	0.1547	3.2331*	.	.
Replicate F				1.790	1.595	1.592	1.000	0.000	0.000
Replicate Prob(F)				0.2088	0.2376	0.2383	0.3927	1.0000	1.0000
Treatment F				1.851	9.358	11.556	73.714	0.000	0.000
Treatment Prob(F)				0.1714	0.0002	0.0001	0.0001	1.0000	1.0000

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	SETFA	ECHCG	AMBTR	AMARE
Pest Name	Canada Giant foxtail Common barnyar> horsewe>			Giant ragweed	Redroot pigweed
Crop Code					
Crop Name					
Rating Date	Jul-26-2018	Jul-26-2018	Jul-26-2018	Jul-26-2018	Jul-26-2018
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	42 13	42 13	42 13	42 13	42 13
Trt-Eval Interval	13 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1
ARM Action Codes		AA		AA	
Number of Decimals	0	0	0	0	0

Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	19*	20*	21*	22*	23*
1 UTC				0 -	0 d	0 c	0 c	0 -
2 NIS	0.25 % v/v		A	100 -	92 b	0 c	92 ab	100 -
Gramoxone	3.3 pt/a		A					
3 NIS	0.3 pt/a		A	100 -	88 c	10 c	73 b	100 -
A22102F	5 pt/a		A					
4 NIS	0.3 pt/a		A	100 -	100 a	85 b	100 a	100 -
A22102F	5 pt/a		A					
N Pak AMS	2.5 % v/v		B					
NIS	0.25 % v/v		B					
Halex GT	3.6 pt/a		B					
5 NIS	0.3 pt/a		A	100 -	100 a	92 ab	100 a	100 -
AAtrex	1 qt/a		A					
A22102F	5 pt/a		A					
N Pak AMS	2.5 % v/v		B					
NIS	0.25 % v/v		B					
Halex GT	3.6 pt/a		B					
6 NIS	0.3 pt/a		A	100 -	100 a	88 ab	100 a	100 -
Callisto	3 oz/a		A					
AAtrex	1 qt/a		A					
A22102F	5 pt/a		A					
N Pak AMS	2.5 % v/v		B					
NIS	0.25 % v/v		B					
Halex GT	3.6 pt/a		B					
7 Harness Xtra 5.6	1.5 qt/a		A	100 -	100 a	100 a	100 a	100 -
Roundup PowerMax	1 qt/a		A					
N Pak AMS	2.5 % v/v		B					
Impact	1 oz/a		B					
Roundup PowerMax	1 qt/a		B					
8 NIS	0.3 pt/a		A	100 -	100 a	97 ab	78 b	100 -
Sencor 75DF	5.3 oz/a		A					
A22102F	5 pt/a		A					
N Pak AMS	2.5 % v/v		B					
NIS	0.25 % v/v		B					
Halex GT	3.6 pt/a		B					
LSD P=.05				.	0.2 - 2.6	9.0	5.1 - 17.1	.
Standard Deviation				0.0	1.4t	5.1	7.4t	0.0
CV				0.0	1.86t	8.68	10.71t	0.0
Levene's F				0.00	0.861	1.667	1.815	0.00
Levene's Prob(F)				.	0.556	0.188	0.153	.
Skewness				-2.4219*	-2.1022*	-0.5323	-1.567*	-2.4219*
Kurtosis				4.2103*	3.1905*	-1.7775	1.5156	4.2103*
Replicate F				0.000	1.597	0.636	0.035	0.000
Replicate Prob(F)				1.0000	0.2372	0.5439	0.9662	1.0000
Treatment F				0.000	1516.944	246.540	52.020	0.000
Treatment Prob(F)				1.0000	0.0001	0.0001	0.0001	1.0000

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Trial ID: 18A22102      Location: Western Branch F-10 W    Trial Year: 2018  
Protocol ID: 18A22102    Investigator: Dr. Mark M. Loux  
Project ID:                Study Director: Anthony Dobbels  
                                 Sponsor Contact:

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

ERICA, Erigeron canadensis, Canada horseweed = US

SETFA, Setaria faberi, Giant foxtail = US

ECHCG, Echinochloa crus-galli, Common barnyard grass = US

AMBTR, Ambrosia trifida, Giant ragweed = US

AMARE, Amaranthus retroflexus, Redroot pigweed = US

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

Rating Type

CONTRO = control / burndown or knockdown

PHYGEN = phytotoxicity - general / injury

Rating Unit

% = percent

ARM Action Codes

EC = Do not analyze untreated check, while still reporting treatment mean on AOV Means Table

AA = Automatic arcsine square root % transformation