

The Ohio State University

Fall FMC Burndown Programs (Crusher, Firstshot, Aim, Authority, Pannoflex)

Trial ID: 20FALLSOY1 Location: Trial Year: 2019
 Protocol ID: 20FALLSOY1 Investigator: Dr. Mark M. Loux
 Project ID: USA-19-772 E Study Director: Anthony Dobbels
 Sponsor Contact: Drak Copeland, FMC

General Trial Information

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

Trial Status: E established

ARM Trial Created On: Oct-14-2019

Initiation Date: Nov-6-2019

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 °: 39.85876 N
Longitude of LL Corner °: -83.67178 W
Altitude of LL Corner: 1097.00 FT

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Anthony Dobbels

Investigator: Dr. Mark M. Loux

Crop Description

Crop 1: C	GLXMA Glycine max	Soybean	BBCH Scale: BSOY
Entry Date:	May-8-2020	Stage Scale:	BBCH
Variety:	SC8320X	Maturity Group:	3.2
Attributes:	GLYPHOSATE, DICAMBA TOLERANT	Seed Source:	Seed Consultants
Seed Lot No:	B3WCCQ13016-00-0038	Seed Size:	2600 S/LB
% Germination:	90	Seed Treatment Products:	Lumigen
Planting Date:	May-7-2020	Planting Rate:	175000 S/A
Depth:	1.5 IN	Planting Method:	PLANTD planted
Rows per Plot:	8	Planting Equipment:	FE field equipment
Row Spacing:	15 IN	Seed Bed:	MEDTRA medium/trashy
Soil Temperature:	48 F	Soil Moisture:	NORMAL normal, adequate
Emergence Date:	May-25-2020		

Pest Description

Pest 1 Type: W **Code:** LAMPU Lamium purpureum
Common Name: Purple deadnettle **Entry Date:** Nov-6-2019

Pest 2 Type: W **Code:** STEME Stellaria media
Common Name: Common chickweed **Entry Date:** Nov-6-2019

Pest 3 Type: W **Code:** TAROF Taraxacum officinale
Common Name: Blowball **Entry Date:** Nov-6-2019

Pest 4 Type: W **Code:** CARPE Cardamine pensylvanica
Common Name: Pennsylvania bittercress **Entry Date:** Nov-6-2019

Pest 5 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail **Entry Date:** May-28-2020

Pest 6 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: ragweed, giant **Entry Date:** May-28-2020

Pest 7 Type: W **Code:** ERICA Conyza canadensis
Common Name: horseweed **Entry Date:** May-28-2020

Pest 8 Type: W **Code:** VERAG Veronica agrestis
Common Name: speedwell, field **Entry Date:** May-28-2020

Site and Design

Treated Plot Width: 6.67 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT **Experimental Unit:** 1 PLOT plot
Treated Plot Area: 200.1 FT2 **Treatments:** 10 **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOB� Randomized Complete Block (RCB)

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Previous

No. Crop Year
 1. SOYBEAN 2019

Soil Description

Description Name: F-9 E
 % Sand: 36 % OM: 3 Texture: SICL silty clay loam
 % Silt: 49 pH: 6.4 Soil Name: Kokomo
 % Clay: 15 CEC: 17.8 Fert. Level: G good
 Soil Drainage: G good

Application Description

	A	B
Application Date	Nov-6-2019	May-27-2020
Appl. Start Time	12:10 PM	10:00 AM
Appl. Stop Time	12:40 PM	10:45 AM
Interval to Prev. Appl.		203 DAYS
Application Method	SPRAY	SPRAY
Application Timing	FALL	EPO
Application Placement	BROFOL	BROFOL
Applied By	Dobbels	Dobbels
Appl. Entry Date	Nov-6-2019	May-28-2020
Air Temperature Start, Stop	47 47 F	73 75 F
% Relative Humidity Start, Stop	49 49	78 78
Wind Velocity+Dir. Start	7 MPH SSE	7 MPH SSE
Wind Velocity+Dir. Stop	9 MPH SSE	7 MPH SSE
Wind Velocity+Dir. Max	9 MPH SSE	7 MPH SSE
Wet Leaves (Y/N)	N no	N no
Soil Temperature	44 F	72 F
Soil Moisture	NORMAL	Dry
Soil Surface Condition	SLIWET	DRY
% Cloud Cover	10	15
Next Moisture Occurred On	Nov-7-2019	May-28-2020
Time to Next Moisture	1 DAY	16 HR
Moisture 6 Hours after Appl.	0 IN	0 IN
Moisture 1 Week after Appl.	0.33 IN	0.95 IN

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale	GLXMA BSOY	GLXMA BSOY
Days after Emergence	-201	2
Stage Majority, Percent		11 100
Height Average		3 IN

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Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale	LAMPU W	LAMPU W
Stage Majority, Percent	16 90	
Stage Minimum, Percent	14 10	
Stage Maximum, Percent	16 90	
Diameter	2 IN	
Height Average	1 IN	
Height Minimum, Maximum	0.5 1	
Density Average	30 PLA/m2	
Density Min, Max	5 50	
Pest 2 Code, Type, Scale	STEME W	STEME W
Stage Majority, Percent	14 80	
Stage Minimum, Percent	12 10	
Stage Maximum, Percent	16 10	
Diameter	0.25 IN	
Height Average	0.5 IN	
Height Minimum, Maximum	0.25 0.5	
Density Average	0.33 PLA/m2	
Density Min, Max	0.33 3	
Pest 3 Code, Type, Scale	TAROF W	TAROF W
Stage Majority, Percent	16 80	
Stage Minimum, Percent	14 10	
Stage Maximum, Percent	18 10	
Diameter	6 IN	
Height Average	1 IN	
Height Minimum, Maximum	0.5 1.5	
Density Average	6 PLA/m2	
Density Min, Max	0 20	
Pest 4 Code, Type, Scale	CARPE W	CARPE W
Stage Majority, Percent	14 80	
Stage Minimum, Percent	12 10	
Stage Maximum, Percent	16 10	
Diameter	0.5 IN	
Height Average	0.5 IN	
Height Minimum, Maximum	0.25 0.5	
Density Average	0.33 PLA/m2	
Density Min, Max	0 3	
Pest 5 Code, Type, Scale	SETFA W	SETFA W
Stage Majority, Percent		12 80
Stage Minimum, Percent		10 10
Stage Maximum, Percent		13 10
Height Average		3 IN
Height Minimum, Maximum		3 3
Density Average		125 PLA/m2
Density Min, Max		98 156
Pest 6 Code, Type, Scale	AMBTR W	AMBTR W
Stage Majority, Percent		19 80
Stage Minimum, Percent		16 10
Stage Maximum, Percent		20 10
Height Average		12 in
Height Minimum, Maximum		8 12
Density Average		12 PLA/m2
Density Min, Max		5 13
Pest 7 Code, Type, Scale	ERICA W	ERICA W
Stage Majority, Percent		19 100
Stage Minimum, Percent		19
Stage Maximum, Percent		19
Height Average		2 IN
Height Minimum, Maximum		2 2
Density Average		3 PLA/m2
Density Min, Max		1 5
Pest 8 Code, Type, Scale	VERAG W	VERAG W
Stage Majority, Percent		19 100
Stage Minimum, Percent		19
Stage Maximum, Percent		19
Height Average		3 IN
Height Minimum, Maximum		3 3
Density Average		3 PLA/m2
Density Min, Max		1 4

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Application Equipment

	A	B
Appl. Equipment	6' AIXR	10' TTI
Equipment Type	BACCAI	BACCAI
Operation Pressure	44 PSI	44 PSI
Nozzle Type	AIXR	TTI
Nozzle Size	1110015	110015
Nozzle Spacing	18 IN	18 IN
Boom Length	6.67 FT	10 FT
Boom Height	20 IN	20 IN
Ground Speed	3 MPH	3 KPH
Carrier	WATER	WATER
Application Amount	15 GAL/AC	15 GAL/AC
Mix Size	1 L	3 GAL
Propellant	COMCO2	COMCO2
Tank Mix (Y/N)		Y yes

Context	Date	By	Notes
STATUS	Oct-14-2019	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	Nov-6-2019	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'E' when Initiation Date entered.

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	AMBTR	RANAB
Pest Scientific Name	Stellaria media	Lamium purpure>	Ambrosia trifid>	Ranunculus abo>
Pest Name	Common chickwe>	Purple deadnet>	Giant ragweed	Smallflower bu>
Rating Date	May-6-2020	May-6-2020	May-6-2020	May-6-2020
Number of Subsamples	1	1	1	1
Assessed By	Dobbels			
Data Entry Date	May-8-2020	May-8-2020	May-8-2020	May-8-2020
Rating Timing	AT PLANT	AT PLANT	AT PLANT	AT PLANT
Days After First/Last Applic.	182 182	182 182	182 182	182 182
Trt-Eval Interval	182 DA-A	182 DA-A	182 DA-A	182 DA-A
Plant-Eval Interval	-1 DP-1	-1 DP-1	-1 DP-1	-1 DP-1
Days After Emergence	-19 DE-1	-19 DE-1	-19 DE-1	-19 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	1*	2*	3*	4*
1	UTC						0 c	0 e	0 -	0 b
2	Authority XL	0.175 lb ai/a		4 oz/a		A	100 a	100 a	30 -	100 a
2	Roundup Powermax	1.125 lb ae/a		32 oz/a		A				
2	2,4-D Ester	0.5 lb ai/a		16 oz/a		A				
2	AIM	0.0156 lb ai/a		1 oz/a		A				
2	COC	1 % v/v		19.2 oz/a		A				
2	Anthem Maxx	0.084 lb ai/a		2.5 oz/a		B				
2	Roundup Powermax	1.13 lb ae/a		32 oz/a		B				
2	Xtendimax	0.5 lb ai/a		22 oz/a		B				
2	Intact	0.5 % v/v		9.6 oz/a		B				
3	Authority MTZ	0.338 lb ai/a		12 oz/a		A	100 a	92 abc	0 -	100 a
3	Roundup Powermax	1.125 lb ae/a		32 oz/a		A				
3	2,4-D Ester	0.5 lb ai/a		16 oz/a		A				
3	AIM	0.0156 lb ai/a		1 oz/a		A				
3	COC	1 % v/v		19.2 oz/a		A				
3	Anthem Maxx	0.084 lb ai/a		2.5 oz/a		B				
3	Roundup Powermax	1.13 lb ae/a		32 oz/a		B				
3	Xtendimax	0.5 lb ai/a		22 oz/a		B				
3	Intact	0.5 % v/v		9.6 oz/a		B				
4	Gramoxone	0.75 lb ai/a		48 oz/a		A	99 a	82 c	10 -	100 a
4	Tricor	0.234 lb ai/a		5 oz/a		A				
4	COC	1 % v/v		19.2 oz/a		A				
4	Anthem Maxx	0.084 lb ai/a		2.5 oz/a		B				
4	Roundup Powermax	1.13 lb ae/a		32 oz/a		B				
4	Xtendimax	0.5 lb ai/a		22 oz/a		B				
4	Intact	0.5 % v/v		9.6 oz/a		B				

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	AMBTR	RANAB
Pest Scientific Name	Stellaria media	Lamium purpure>	Ambrosia trifi>	Ranunculus abo>
Pest Name	Common chickwe>	Purple deadnet>	Giant ragweed	Smallflower bu>
Rating Date	May-6-2020	May-6-2020	May-6-2020	May-6-2020
Number of Subsamples	1	1	1	1
Assessed By	Dobbels			
Data Entry Date	May-8-2020	May-8-2020	May-8-2020	May-8-2020
Rating Timing	AT PLANT	AT PLANT	AT PLANT	AT PLANT
Days After First/Last Applic.	182 182	182 182	182 182	182 182
Trt-Eval Interval	182 DA-A	182 DA-A	182 DA-A	182 DA-A
Plant-Eval Interval	-1 DP-1	-1 DP-1	-1 DP-1	-1 DP-1
Days After Emergence	-19 DE-1	-19 DE-1	-19 DE-1	-19 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Unit	Appl Code	1*	2*	3*	4*
5	Crusher	0.0313	lb ai/a	1	oz/a	A	100 a	98 ab	10 -	100 a
5	Roundup Powermax	1.125	lb ae/a	32	oz/a	A				
5	2,4-D Ester	0.5	lb ai/a	16	oz/a	A				
5	COC	1	% v/v	19.2	oz/a	A				
5	Anthem Maxx	0.084	lb ai/a	2.5	oz/a	B				
5	Roundup Powermax	1.13	lb ae/a	32	oz/a	B				
5	Xtendimax	0.5	lb ai/a	22	oz/a	B				
5	Intact	0.5	% v/v	9.6	oz/a	B				
6	Pannoflex	0.0156	lb ai/a	0.5	oz/a	A	100 a	94 abc	10 -	100 a
6	Express SG	0.0125	lb ai/a	0.4	oz/a	A				
6	Harmony SG	0.00312	lb ai/a	0.1	oz/a	A				
6	Roundup Powermax	1.125	lb ae/a	32	oz/a	A				
6	2,4-D Ester	0.5	lb ai/a	16	oz/a	A				
6	COC	1	% v/v	19.2	oz/a	A				
6	Anthem Maxx	0.084	lb ai/a	2.5	oz/a	B				
6	Roundup Powermax	1.13	lb ae/a	32	oz/a	B				
6	Xtendimax	0.5	lb ai/a	22	oz/a	B				
6	Intact	0.5	% v/v	9.6	oz/a	B				
7	Valor SX	0.064	lb ai/a	2	oz/a	A	97 a	100 a	10 -	92 a
7	Roundup Powermax	1.125	lb ae/a	32	oz/a	A				
7	Clarity	0.25	lb ai/a	8	oz/a	A				
7	Anthem Maxx	0.084	lb ai/a	2.5	oz/a	B				
7	Roundup Powermax	1.13	lb ae/a	32	oz/a	B				
7	Xtendimax	0.5	lb ai/a	22	oz/a	B				
7	Intact	0.5	% v/v	9.6	oz/a	B				
8	Roundup Powermax	0.77	lb ae/a	22	oz/a	A	93 a	83 bc	7 -	87 a
8	2,4-D Ester	0.5	lb ai/a	16	oz/a	A				
8	N Pak AMS	2.5	% v/v	48	oz/a	A				
8	Anthem Maxx	0.084	lb ai/a	2.5	oz/a	B				
8	Roundup Powermax	1.13	lb ae/a	32	oz/a	B				
8	Xtendimax	0.5	lb ai/a	22	oz/a	B				
8	Intact	0.5	% v/v	9.6	oz/a	B				
9	2,4-D Ester	0.5	lb ai/a	16	oz/a	A	73 b	10 de	0 -	100 a
9	Clarity	0.25	lb ai/a	8	oz/a	A				
9	Anthem Maxx	0.084	lb ai/a	2.5	oz/a	B				
9	Roundup Powermax	1.13	lb ae/a	32	oz/a	B				
9	Xtendimax	0.5	lb ai/a	22	oz/a	B				
9	Intact	0.5	% v/v	9.6	oz/a	B				

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	AMBTR	RANAB
Pest Scientific Name	Stellaria media	Lamium purpure>	Ambrosia trifi>	Ranunculus abo>
Pest Name	Common chickwe>	Purple deadnet>	Giant ragweed	Smallflower bu>
Rating Date	May-6-2020	May-6-2020	May-6-2020	May-6-2020
Number of Subsamples	1	1	1	1
Assessed By	Dobbels			
Data Entry Date	May-8-2020	May-8-2020	May-8-2020	May-8-2020
Rating Timing	AT PLANT	AT PLANT	AT PLANT	AT PLANT
Days After First/Last Applic.	182 182	182 182	182 182	182 182
Trt-Eval Interval	182 DA-A	182 DA-A	182 DA-A	182 DA-A
Plant-Eval Interval	-1 DP-1	-1 DP-1	-1 DP-1	-1 DP-1
Days After Emergence	-19 DE-1	-19 DE-1	-19 DE-1	-19 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	1*	2*	3*	4*
10	Brash		1 lb ai/a	1 qt/a		A	73 b	17 d	0 -	15 b
10	Anthem Maxx	0.084	lb ai/a	2.5 oz/a		B				
10	Roundup Powermax	1.13	lb ae/a	32 oz/a		B				
10	Xtendimax	0.5	lb ai/a	22 oz/a		B				
10	Intact	0.5	% v/v	9.6 oz/a		B				
LSD P=.05							13.2	15.3	19.5	17.2
Standard Deviation							7.7	8.9	11.4	10.0
CV							9.21	13.22	148.08	12.21
Grand Mean							83.6	67.6	7.7	81.6
Levene's F							1.366	0.832	0.567	1.253
Levene's Prob(F)							0.267	0.595	0.808	0.323
Rank X2							.	.	.	.
P(Rank X2)							.	.	.	.
Skewness							-2.1595*	-0.9126*	1.1634*	-1.722*
Kurtosis							3.6171*	-0.9795	-0.643	1.3187
Replicate F							2.131	0.486	1.345	1.244
Replicate Prob(F)							0.1477	0.6232	0.2855	0.3131
Treatment F							49.433	63.675	1.957	39.561
Treatment Prob(F)							0.0001	0.0001	0.1078	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CARPE	ERICA	SETFA	AMBTR	VERAG
Pest Scientific Name	Cardamine pens>	Erigeron canad>	Setaria faberi	Ambrosia trifi>	Veronica agres>
Pest Name	Pennsylvania b>	Canada horsewe>	Giant foxtail	Giant ragweed	Field speedwell
Rating Date	May-6-2020	May-27-2020	May-27-2020	May-27-2020	May-27-2020
Number of Subsamples	1	1	1	1	1
Assessed By					
Data Entry Date	May-8-2020	May-28-2020	May-28-2020	May-28-2020	May-28-2020
Rating Timing	AT PLANT	AT EPO	AT EPO	AT EPO	AT EPO
Days After First/Last Applic.	182 182	203 203	203 203	203 203	203 203
Trt-Eval Interval	182 DA-A	203 DA-A	203 DA-A	203 DA-A	203 DA-A
Plant-Eval Interval	-1 DP-1	20 DP-1	20 DP-1	20 DP-1	20 DP-1
Days After Emergence	-19 DE-1	2 DE-1	2 DE-1	2 DE-1	2 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	5*	6*	7*	8*	9*
1	UTC						0 b	0 c	0 c	0 b	0 c
2	Authority XL	0.175	lb ai/a	4	oz/a	A	100 a	10 c	30 a	43 a	100 a
2	Roundup Powermax	1.125	lb ae/a	32	oz/a	A					
2	2,4-D Ester	0.5	lb ai/a	16	oz/a	A					
2	AIM	0.0156	lb ai/a	1	oz/a	A					
2	COC	1	% v/v	19.2	oz/a	A					
2	Anthem Maxx	0.084	lb ai/a	2.5	oz/a	B					
2	Roundup Powermax	1.13	lb ae/a	32	oz/a	B					
2	Xtendimax	0.5	lb ai/a	22	oz/a	B					
2	Intact	0.5	% v/v	9.6	oz/a	B					
3	Authority MTZ	0.338	lb ai/a	12	oz/a	A	100 a	10 c	37 a	0 b	0 c
3	Roundup Powermax	1.125	lb ae/a	32	oz/a	A					
3	2,4-D Ester	0.5	lb ai/a	16	oz/a	A					
3	AIM	0.0156	lb ai/a	1	oz/a	A					
3	COC	1	% v/v	19.2	oz/a	A					
3	Anthem Maxx	0.084	lb ai/a	2.5	oz/a	B					
3	Roundup Powermax	1.13	lb ae/a	32	oz/a	B					
3	Xtendimax	0.5	lb ai/a	22	oz/a	B					
3	Intact	0.5	% v/v	9.6	oz/a	B					
4	Gramoxone	0.75	lb ai/a	48	oz/a	A	100 a	10 c	27 ab	10 b	0 c
4	Tricor	0.234	lb ai/a	5	oz/a	A					
4	COC	1	% v/v	19.2	oz/a	A					
4	Anthem Maxx	0.084	lb ai/a	2.5	oz/a	B					
4	Roundup Powermax	1.13	lb ae/a	32	oz/a	B					
4	Xtendimax	0.5	lb ai/a	22	oz/a	B					
4	Intact	0.5	% v/v	9.6	oz/a	B					

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Pest Scientific Name	Cardamine pens>	Erigeron canad>	Setaria faberi	Ambrosia trifi>	Veronica agres>
Pest Name	Pennsylvania b>	Canada horsewe>	Giant foxtail	Giant ragweed	Field speedwell
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Number of Subsamples	1	1	1	1	1
Assessed By					
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Rating Timing	AT PLANT	AT EPO	AT EPO	AT EPO	AT EPO
Days After First/Last Applic.	182 182	203 203	203 203	203 203	203 203
Trt-Eval Interval	182 DA-A	203 DA-A	203 DA-A	203 DA-A	203 DA-A
Plant-Eval Interval	-1 DP-1	20 DP-1	20 DP-1	20 DP-1	20 DP-1
Days After Emergence	-19 DE-1	2 DE-1	2 DE-1	2 DE-1	2 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	5*	6*	7*	8*	9*
5	Crusher	0.0313	lb ai/a	1	oz/a	A	100 a	23 bc	10 bc	0 b	0 c
5	Roundup Powermax	1.125	lb ae/a	32	oz/a	A					
5	2,4-D Ester	0.5	lb ai/a	16	oz/a	A					
5	COC	1	% v/v	19.2	oz/a	A					
5	Anthem Maxx	0.084	lb ai/a	2.5	oz/a	B					
5	Roundup Powermax	1.13	lb ae/a	32	oz/a	B					
5	Xtendimax	0.5	lb ai/a	22	oz/a	B					
5	Intact	0.5	% v/v	9.6	oz/a	B					
6	Pannoflex	0.0156	lb ai/a	0.5	oz/a	A	87 a	20 bc	30 a	10 b	27 b
6	Express SG	0.0125	lb ai/a	0.4	oz/a	A					
6	Harmony SG	0.00312	lb ai/a	0.1	oz/a	A					
6	Roundup Powermax	1.125	lb ae/a	32	oz/a	A					
6	2,4-D Ester	0.5	lb ai/a	16	oz/a	A					
6	COC	1	% v/v	19.2	oz/a	A					
6	Anthem Maxx	0.084	lb ai/a	2.5	oz/a	B					
6	Roundup Powermax	1.13	lb ae/a	32	oz/a	B					
6	Xtendimax	0.5	lb ai/a	22	oz/a	B					
6	Intact	0.5	% v/v	9.6	oz/a	B					
7	Valor SX	0.064	lb ai/a	2	oz/a	A	93 a	37 ab	20 ab	10 b	0 c
7	Roundup Powermax	1.125	lb ae/a	32	oz/a	A					
7	Clarity	0.25	lb ai/a	8	oz/a	A					
7	Anthem Maxx	0.084	lb ai/a	2.5	oz/a	B					
7	Roundup Powermax	1.13	lb ae/a	32	oz/a	B					
7	Xtendimax	0.5	lb ai/a	22	oz/a	B					
7	Intact	0.5	% v/v	9.6	oz/a	B					
8	Roundup Powermax	0.77	lb ae/a	22	oz/a	A	93 a	13 bc	30 a	10 b	0 c
8	2,4-D Ester	0.5	lb ai/a	16	oz/a	A					
8	N Pak AMS	2.5	% v/v	48	oz/a	A					
8	Anthem Maxx	0.084	lb ai/a	2.5	oz/a	B					
8	Roundup Powermax	1.13	lb ae/a	32	oz/a	B					
8	Xtendimax	0.5	lb ai/a	22	oz/a	B					
8	Intact	0.5	% v/v	9.6	oz/a	B					
9	2,4-D Ester	0.5	lb ai/a	16	oz/a	A	100 a	37 ab	30 a	17 b	0 c
9	Clarity	0.25	lb ai/a	8	oz/a	A					
9	Anthem Maxx	0.084	lb ai/a	2.5	oz/a	B					
9	Roundup Powermax	1.13	lb ae/a	32	oz/a	B					
9	Xtendimax	0.5	lb ai/a	22	oz/a	B					
9	Intact	0.5	% v/v	9.6	oz/a	B					

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Fall FMC Burndown Programs (Crusher, Firstshot, Aim, Authority, Pannoflex)

Trial ID: 20FALLSOY1
 Protocol ID: 20FALLSOY1
 Project ID: USA-19-772 E

Location: Trial Year: 2019
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Drak Copeland, FMC

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CARPE	ERICA	SETFA	AMBTR	VERAG
Pest Scientific Name	Cardamine pens>	Erigeron canad>	Setaria faberi	Ambrosia trifi>	Veronica agres>
Pest Name	Pennsylvania b>	Canada horsewe>	Giant foxtail	Giant ragweed	Field speedwell
Rating Date	May-6-2020	May-27-2020	May-27-2020	May-27-2020	May-27-2020
Number of Subsamples	1	1	1	1	1
Assessed By					
Data Entry Date	May-8-2020	May-28-2020	May-28-2020	May-28-2020	May-28-2020
Rating Timing	AT PLANT	AT EPO	AT EPO	AT EPO	AT EPO
Days After First/Last Applic.	182 182	203 203	203 203	203 203	203 203
Trt-Eval Interval	182 DA-A	203 DA-A	203 DA-A	203 DA-A	203 DA-A
Plant-Eval Interval	-1 DP-1	20 DP-1	20 DP-1	20 DP-1	20 DP-1
Days After Emergence	-19 DE-1	2 DE-1	2 DE-1	2 DE-1	2 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	5*	6*	7*	8*	9*
10	Brash	1 lb ai/a	1 qt/a			A	100 a	60 a	30 a	10 b	0 c
10	Anthem Maxx	0.084 lb ai/a	2.5 oz/a			B					
10	Roundup Powermax	1.13 lb ae/a	32 oz/a			B					
10	Xtendimax	0.5 lb ai/a	22 oz/a			B					
10	Intact	0.5 % v/v	9.6 oz/a			B					
LSD P=.05							15.6	26.6	19.2	23.8	25.1
Standard Deviation							9.1	15.5	11.2	13.9	14.6
CV							10.43	70.47	45.91	126.28	115.31
Grand Mean							87.3	22.0	24.3	11.0	12.7
Levene's F							0.815	0.393	0.727	0.429	1.00
Levene's Prob(F)							0.609	0.924	0.68	0.904	0.471
Rank X2							.	.	.	.	.
P(Rank X2)							.	.	.	.	.
Skewness							-2.4817*	0.2518	-1.0891*	1.0195*	2.3133*
Kurtosis							4.899*	-1.2598	-0.3945	-0.5672	3.6617*
Replicate F							0.643	0.291	0.347	0.155	1.000
Replicate Prob(F)							0.5374	0.7508	0.7113	0.8571	0.3874
Treatment F							34.804	3.982	3.030	2.497	14.229
Treatment Prob(F)							0.0001	0.0061	0.0217	0.0470	0.0001

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Fall FMC Burndown Programs (Crusher, Firstshot, Aim, Authority, Pannoflex)

Trial ID: 20FALLSOY1
 Protocol ID: 20FALLSOY1
 Project ID: USA-19-772 E

Location:
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Drak Copeland, FMC

Trial Year: 2019

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	PHYTO	SETFA	AMBTR	ERICA	PHYTO
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Erigeron canad>	
Pest Name		Giant foxtail	Giant ragweed	Canada horsewe>	
Rating Date	Jun-8-2020	Jun-8-2020	Jun-8-2020	Jun-8-2020	Jun-24-2020
Number of Subsamples	1	1	1	1	1
Assessed By					
Data Entry Date	Jun-8-2020	Jun-8-2020	Jun-8-2020	Jun-8-2020	Jun-30-2020
Rating Timing					
Days After First/Last Applic.	215 12	215 12	215 12	215 12	231 28
Trt-Eval Interval			12 DA-B	12 DA-B	
Plant-Eval Interval	32 DP-1	32 DP-1	32 DP-1	32 DP-1	48 DP-1
Days After Emergence	14 DE-1	14 DE-1	14 DE-1	14 DE-1	30 DE-1
Number of Decimals					

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	10*	11*	12*	13*	14*
1	UTC						15.0 -	96.7 -	80.0 -	99.0 -	0.0 -
2	Authority XL	0.175 lb ai/a		4 oz/a		A	15.0 -	95.7 -	86.7 -	98.3 -	0.0 -
2	Roundup Powermax	1.125 lb ae/a		32 oz/a		A					
2	2,4-D Ester	0.5 lb ai/a		16 oz/a		A					
2	AIM	0.0156 lb ai/a		1 oz/a		A					
2	COC	1 % v/v		19.2 oz/a		A					
2	Anthem Maxx	0.084 lb ai/a		2.5 oz/a		B					
2	Roundup Powermax	1.13 lb ae/a		32 oz/a		B					
2	Xtendimax	0.5 lb ai/a		22 oz/a		B					
2	Intact	0.5 % v/v		9.6 oz/a		B					
3	Authority MTZ	0.338 lb ai/a		12 oz/a		A	10.0 -	93.3 -	81.7 -	100.0 -	0.0 -
3	Roundup Powermax	1.125 lb ae/a		32 oz/a		A					
3	2,4-D Ester	0.5 lb ai/a		16 oz/a		A					
3	AIM	0.0156 lb ai/a		1 oz/a		A					
3	COC	1 % v/v		19.2 oz/a		A					
3	Anthem Maxx	0.084 lb ai/a		2.5 oz/a		B					
3	Roundup Powermax	1.13 lb ae/a		32 oz/a		B					
3	Xtendimax	0.5 lb ai/a		22 oz/a		B					
3	Intact	0.5 % v/v		9.6 oz/a		B					
4	Gramoxone	0.75 lb ai/a		48 oz/a		A	13.3 -	88.3 -	78.3 -	95.7 -	0.0 -
4	Tricor	0.234 lb ai/a		5 oz/a		A					
4	COC	1 % v/v		19.2 oz/a		A					
4	Anthem Maxx	0.084 lb ai/a		2.5 oz/a		B					
4	Roundup Powermax	1.13 lb ae/a		32 oz/a		B					
4	Xtendimax	0.5 lb ai/a		22 oz/a		B					
4	Intact	0.5 % v/v		9.6 oz/a		B					

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Fall FMC Burndown Programs (Crusher, Firstshot, Aim, Authority, Pannoflex)

Trial ID: 20FALLSOY1
 Protocol ID: 20FALLSOY1
 Project ID: USA-19-772 E

Location: Trial Year: 2019
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Drak Copeland, FMC

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	PHYTO	SETFA	AMBTR	ERICA	PHYTO
Pest Scientific Name	Setaria faberi Ambrosia trifi>				
Pest Name	Giant foxtail Giant ragweed Canada horsewe>				
Rating Date	Jun-8-2020	Jun-8-2020	Jun-8-2020	Jun-8-2020	Jun-24-2020
Number of Subsamples	1	1	1	1	1
Assessed By					
Data Entry Date	Jun-8-2020	Jun-8-2020	Jun-8-2020	Jun-8-2020	Jun-30-2020
Rating Timing					
Days After First/Last Applic.	215 12	215 12	215 12	215 12	231 28
Trt-Eval Interval					
Plant-Eval Interval	32 DP-1	32 DP-1	12 DA-B	12 DA-B	48 DP-1
Days After Emergence	14 DE-1	14 DE-1	14 DE-1	14 DE-1	30 DE-1
Number of Decimals					

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	10*	11*	12*	13*	14*
5	Crusher	0.0313	lb ai/a	1	oz/a	A	11.7 -	86.7 -	73.3 -	100.0 -	0.0 -
5	Roundup Powermax	1.125	lb ae/a	32	oz/a	A					
5	2,4-D Ester	0.5	lb ai/a	16	oz/a	A					
5	COC	1	% v/v	19.2	oz/a	A					
5	Anthem Maxx	0.084	lb ai/a	2.5	oz/a	B					
5	Roundup Powermax	1.13	lb ae/a	32	oz/a	B					
5	Xtendimax	0.5	lb ai/a	22	oz/a	B					
5	Intact	0.5	% v/v	9.6	oz/a	B					
6	Pannoflex	0.0156	lb ai/a	0.5	oz/a	A	11.7 -	96.7 -	81.7 -	96.7 -	0.0 -
6	Express SG	0.0125	lb ai/a	0.4	oz/a	A					
6	Harmony SG	0.00312	lb ai/a	0.1	oz/a	A					
6	Roundup Powermax	1.125	lb ae/a	32	oz/a	A					
6	2,4-D Ester	0.5	lb ai/a	16	oz/a	A					
6	COC	1	% v/v	19.2	oz/a	A					
6	Anthem Maxx	0.084	lb ai/a	2.5	oz/a	B					
6	Roundup Powermax	1.13	lb ae/a	32	oz/a	B					
6	Xtendimax	0.5	lb ai/a	22	oz/a	B					
6	Intact	0.5	% v/v	9.6	oz/a	B					
7	Valor SX	0.064	lb ai/a	2	oz/a	A	13.3 -	89.0 -	73.3 -	100.0 -	0.0 -
7	Roundup Powermax	1.125	lb ae/a	32	oz/a	A					
7	Clarity	0.25	lb ai/a	8	oz/a	A					
7	Anthem Maxx	0.084	lb ai/a	2.5	oz/a	B					
7	Roundup Powermax	1.13	lb ae/a	32	oz/a	B					
7	Xtendimax	0.5	lb ai/a	22	oz/a	B					
7	Intact	0.5	% v/v	9.6	oz/a	B					
8	Roundup Powermax	0.77	lb ae/a	22	oz/a	A	13.3 -	100.0 -	80.0 -	96.7 -	0.0 -
8	2,4-D Ester	0.5	lb ai/a	16	oz/a	A					
8	N Pak AMS	2.5	% v/v	48	oz/a	A					
8	Anthem Maxx	0.084	lb ai/a	2.5	oz/a	B					
8	Roundup Powermax	1.13	lb ae/a	32	oz/a	B					
8	Xtendimax	0.5	lb ai/a	22	oz/a	B					
8	Intact	0.5	% v/v	9.6	oz/a	B					
9	2,4-D Ester	0.5	lb ai/a	16	oz/a	A	13.3 -	92.3 -	73.3 -	100.0 -	0.0 -
9	Clarity	0.25	lb ai/a	8	oz/a	A					
9	Anthem Maxx	0.084	lb ai/a	2.5	oz/a	B					
9	Roundup Powermax	1.13	lb ae/a	32	oz/a	B					
9	Xtendimax	0.5	lb ai/a	22	oz/a	B					
9	Intact	0.5	% v/v	9.6	oz/a	B					

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Fall FMC Burndown Programs (Crusher, Firstshot, Aim, Authority, Pannoflex)

Trial ID: 20FALLSOY1
 Protocol ID: 20FALLSOY1
 Project ID: USA-19-772 E

Location: Trial Year: 2019
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Drak Copeland, FMC

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	PHYTO	SETFA	AMBTR	ERICA	PHYTO
Pest Scientific Name	Setaria faberi Ambrosia trifi>				
Pest Name	Giant foxtail Giant ragweed Canada horsewe>				
Rating Date	Jun-8-2020	Jun-8-2020	Jun-8-2020	Jun-8-2020	Jun-24-2020
Number of Subsamples	1	1	1	1	1
Assessed By					
Data Entry Date	Jun-8-2020	Jun-8-2020	Jun-8-2020	Jun-8-2020	Jun-30-2020
Rating Timing					
Days After First/Last Applic.	215 12	215 12	215 12	215 12	231 28
Trt-Eval Interval					
Plant-Eval Interval	32 DP-1	32 DP-1	12 DA-B	12 DA-B	48 DP-1
Days After Emergence	14 DE-1	14 DE-1	14 DE-1	14 DE-1	30 DE-1
Number of Decimals					

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate	Appl Unit Code	10*	11*	12*	13*	14*
10	Brash		1 lb ai/a		1 qt/a	A	13.3 -	90.3 -	76.7 -	100.0 -	0.0 -
10	Anthem Maxx	0.084	lb ai/a	2.5	oz/a	B					
10	Roundup Powermax	1.13	lb ae/a	32	oz/a	B					
10	Xtendimax	0.5	lb ai/a	22	oz/a	B					
10	Intact	0.5	% v/v	9.6	oz/a	B					
LSD P=.05							5.14	14.32	13.22	5.04	.
Standard Deviation							3.00	8.35	7.70	2.94	0.00
CV							23.05	8.99	9.81	2.98	0.0
Grand Mean							13.00	92.90	78.50	98.63	0.00
Levene's F							0.403	0.404	0.183	0.841	0.00
Levene's Prob(F)							0.919	0.918	0.994	0.589	.
Rank X2							.	.	.	.	.
P(Rank X2)							.	.	.	.	.
Skewness							-1.0421*	-1.2183*	0.2874	-2.3854*	.
Kurtosis							0.1762	0.4501	-1.1383	4.5745*	.
Replicate F							0.278	4.031	0.126	2.390	0.000
Replicate Prob(F)							0.7602	0.0358	0.8821	0.1201	1.0000
Treatment F							0.784	0.805	0.981	1.008	0.000
Treatment Prob(F)							0.6345	0.6173	0.4869	0.4690	1.0000

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Fall FMC Burndown Programs (Crusher, Firstshot, Aim, Authority, Pannoflex)

Trial ID: 20FALLSOY1
 Protocol ID: 20FALLSOY1
 Project ID: USA-19-772 E

Location:
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Drak Copeland, FMC

Trial Year: 2019

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHCG	AMBTR	ERICA
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Erigeron canad>
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	Canada horsewe>
Rating Date	Jun-24-2020	Jun-24-2020	Jun-24-2020	Jun-24-2020
Number of Subsamples	1	1	1	1
Assessed By				
Data Entry Date	Jun-30-2020	Jun-30-2020	Jun-30-2020	Jun-30-2020
Rating Timing				
Days After First/Last Applic.	231 28	231 28	231 28	231 28
Trt-Eval Interval			28 DA-B	28 DA-B
Plant-Eval Interval	48 DP-1	48 DP-1	48 DP-1	48 DP-1
Days After Emergence	30 DE-1	30 DE-1	30 DE-1	30 DE-1
Number of Decimals				

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	15*	16*	17*	18*
1	UTC						75.3 -	68.3 -	46.7 -	100.0 -
2	Authority XL	0.175	lb ai/a	4	oz/a	A	82.7 -	79.3 -	56.7 -	100.0 -
2	Roundup Powermax	1.125	lb ae/a	32	oz/a	A				
2	2,4-D Ester	0.5	lb ai/a	16	oz/a	A				
2	AIM	0.0156	lb ai/a	1	oz/a	A				
2	COC	1	% v/v	19.2	oz/a	A				
2	Anthem Maxx	0.084	lb ai/a	2.5	oz/a	B				
2	Roundup Powermax	1.13	lb ae/a	32	oz/a	B				
2	Xtendimax	0.5	lb ai/a	22	oz/a	B				
2	Intact	0.5	% v/v	9.6	oz/a	B				
3	Authority MTZ	0.338	lb ai/a	12	oz/a	A	81.0 -	70.0 -	60.0 -	100.0 -
3	Roundup Powermax	1.125	lb ae/a	32	oz/a	A				
3	2,4-D Ester	0.5	lb ai/a	16	oz/a	A				
3	AIM	0.0156	lb ai/a	1	oz/a	A				
3	COC	1	% v/v	19.2	oz/a	A				
3	Anthem Maxx	0.084	lb ai/a	2.5	oz/a	B				
3	Roundup Powermax	1.13	lb ae/a	32	oz/a	B				
3	Xtendimax	0.5	lb ai/a	22	oz/a	B				
3	Intact	0.5	% v/v	9.6	oz/a	B				
4	Gramoxone	0.75	lb ai/a	48	oz/a	A	71.7 -	53.3 -	56.7 -	93.3 -
4	Tricor	0.234	lb ai/a	5	oz/a	A				
4	COC	1	% v/v	19.2	oz/a	A				
4	Anthem Maxx	0.084	lb ai/a	2.5	oz/a	B				
4	Roundup Powermax	1.13	lb ae/a	32	oz/a	B				
4	Xtendimax	0.5	lb ai/a	22	oz/a	B				
4	Intact	0.5	% v/v	9.6	oz/a	B				

The Ohio State University

Fall FMC Burndown Programs (Crusher, Firstshot, Aim, Authority, Pannoflex)

Trial ID: 20FALLSOY1
 Protocol ID: 20FALLSOY1
 Project ID: USA-19-772 E

Location: Trial Year: 2019
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Drak Copeland, FMC

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHCG	AMBTR	ERICA
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Erigeron canad>
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	Canada horsewe>
Rating Date	Jun-24-2020	Jun-24-2020	Jun-24-2020	Jun-24-2020
Number of Subsamples	1	1	1	1
Assessed By				
Data Entry Date	Jun-30-2020	Jun-30-2020	Jun-30-2020	Jun-30-2020
Rating Timing				
Days After First/Last Applic.	231 28	231 28	231 28	231 28
Trt-Eval Interval			28 DA-B	28 DA-B
Plant-Eval Interval	48 DP-1	48 DP-1	48 DP-1	48 DP-1
Days After Emergence	30 DE-1	30 DE-1	30 DE-1	30 DE-1
Number of Decimals				

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Unit	Appl Code	15*	16*	17*	18*
5	Crusher	0.0313	lb ai/a	1	oz/a	A	60.0 -	46.7 -	40.0 -	100.0 -
5	Roundup Powermax	1.125	lb ae/a	32	oz/a	A				
5	2,4-D Ester	0.5	lb ai/a	16	oz/a	A				
5	COC	1	% v/v	19.2	oz/a	A				
5	Anthem Maxx	0.084	lb ai/a	2.5	oz/a	B				
5	Roundup Powermax	1.13	lb ae/a	32	oz/a	B				
5	Xtendimax	0.5	lb ai/a	22	oz/a	B				
5	Intact	0.5	% v/v	9.6	oz/a	B				
6	Pannoflex	0.0156	lb ai/a	0.5	oz/a	A	89.0 -	88.3 -	56.7 -	100.0 -
6	Express SG	0.0125	lb ai/a	0.4	oz/a	A				
6	Harmony SG	0.00312	lb ai/a	0.1	oz/a	A				
6	Roundup Powermax	1.125	lb ae/a	32	oz/a	A				
6	2,4-D Ester	0.5	lb ai/a	16	oz/a	A				
6	COC	1	% v/v	19.2	oz/a	A				
6	Anthem Maxx	0.084	lb ai/a	2.5	oz/a	B				
6	Roundup Powermax	1.13	lb ae/a	32	oz/a	B				
6	Xtendimax	0.5	lb ai/a	22	oz/a	B				
6	Intact	0.5	% v/v	9.6	oz/a	B				
7	Valor SX	0.064	lb ai/a	2	oz/a	A	63.3 -	56.7 -	23.3 -	100.0 -
7	Roundup Powermax	1.125	lb ae/a	32	oz/a	A				
7	Clarity	0.25	lb ai/a	8	oz/a	A				
7	Anthem Maxx	0.084	lb ai/a	2.5	oz/a	B				
7	Roundup Powermax	1.13	lb ae/a	32	oz/a	B				
7	Xtendimax	0.5	lb ai/a	22	oz/a	B				
7	Intact	0.5	% v/v	9.6	oz/a	B				
8	Roundup Powermax	0.77	lb ae/a	22	oz/a	A	88.3 -	80.0 -	50.0 -	100.0 -
8	2,4-D Ester	0.5	lb ai/a	16	oz/a	A				
8	N Pak AMS	2.5	% v/v	48	oz/a	A				
8	Anthem Maxx	0.084	lb ai/a	2.5	oz/a	B				
8	Roundup Powermax	1.13	lb ae/a	32	oz/a	B				
8	Xtendimax	0.5	lb ai/a	22	oz/a	B				
8	Intact	0.5	% v/v	9.6	oz/a	B				
9	2,4-D Ester	0.5	lb ai/a	16	oz/a	A	73.3 -	70.0 -	30.0 -	100.0 -
9	Clarity	0.25	lb ai/a	8	oz/a	A				
9	Anthem Maxx	0.084	lb ai/a	2.5	oz/a	B				
9	Roundup Powermax	1.13	lb ae/a	32	oz/a	B				
9	Xtendimax	0.5	lb ai/a	22	oz/a	B				
9	Intact	0.5	% v/v	9.6	oz/a	B				

The Ohio State University

Fall FMC Burndown Programs (Crusher, Firstshot, Aim, Authority, Pannoflex)

Trial ID: 20FALLSOY1
 Protocol ID: 20FALLSOY1
 Project ID: USA-19-772 E

Location: Trial Year: 2019
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Drak Copeland, FMC

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHCG	AMBTR	ERICA
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Erigeron canad>
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	Canada horsewe>
Rating Date	Jun-24-2020	Jun-24-2020	Jun-24-2020	Jun-24-2020
Number of Subsamples	1	1	1	1
Assessed By				
Data Entry Date	Jun-30-2020	Jun-30-2020	Jun-30-2020	Jun-30-2020
Rating Timing				
Days After First/Last Applic.	231 28	231 28	231 28	231 28
Trt-Eval Interval			28 DA-B	28 DA-B
Plant-Eval Interval	48 DP-1	48 DP-1	48 DP-1	48 DP-1
Days After Emergence	30 DE-1	30 DE-1	30 DE-1	30 DE-1
Number of Decimals				

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	15*	16*	17*	18*
10	Brash		1 lb ai/a		1 qt/a	A	60.0 -	50.0 -	40.0 -	93.3 -
10	Anthem Maxx	0.084	lb ai/a	2.5	oz/a	B				
10	Roundup Powermax	1.13	lb ae/a	32	oz/a	B				
10	Xtendimax	0.5	lb ai/a	22	oz/a	B				
10	Intact	0.5	% v/v	9.6	oz/a	B				
LSD P=.05							31.49	31.32	27.58	9.10
Standard Deviation							18.36	18.26	16.08	5.31
CV							24.65	27.55	34.95	5.38
Grand Mean							74.47	66.27	46.00	98.67
Levene's F							0.20	0.374	0.527	0.889
Levene's Prob(F)							0.991	0.934	0.838	0.552
Rank X2							.	.	.	.
P(Rank X2)							.	.	.	.
Skewness							-0.7213	-0.926*	-0.5276	-3.66*
Kurtosis							0.1333	1.6011	-1.3271	12.2066*
Replicate F							4.160	3.387	0.155	0.474
Replicate Prob(F)							0.0327	0.0564	0.8578	0.6302
Treatment F							1.054	1.787	1.799	0.842
Treatment Prob(F)							0.4383	0.1408	0.1380	0.5887

The Ohio State University

Fall FMC Burndown Programs (Crusher, Firstshot, Aim, Authority, Pannoflex)

Trial ID: 20FALLSOY1
Protocol ID: 20FALLSOY1
Project ID: USA-19-772 E

Location:
Investigator: Dr. Mark M. Loux
Study Director: Anthony Dobbels
Sponsor Contact: Drak Copeland, FMC

Trial Year: 2019

Pest Type

W, Weed = Weed or volunteer crop

Pest Code

STEME, Stellaria media, Common chickweed = US
LAMPU, Lamium purpureum, Purple deadnettle = US
AMBTR, Ambrosia trifida, Giant ragweed = US
RANAB, Ranunculus abortivus, Smallflower buttercup = US
CARPE, Cardamine pensylvanica, Pennsylvania bittercress = US
ERICA, Erigeron canadensis, Canada horseweed = US
SETFA, Setaria faberi, Giant foxtail = US
VERAG, Veronica agrestis, Field speedwell = US
PHYTO, , = PHYTO, ,
ECHCG, Echinochloa crus-galli, Common barnyard grass = US

Plant-Eval Interval

-1 DP-1 = 1 GLXMA May-7-2020
20 DP-1 = 1 GLXMA May-7-2020
32 DP-1 = 1 GLXMA May-7-2020
48 DP-1 = 1 GLXMA May-7-2020