

The Ohio State University

BCS-720/Corn/PRE/Grass & Broadleaf/Phyto & Efficacy

Trial ID: HN21USAEOATRS2 TD Number: LOCALCREATED Protocol Edition No.: 1.04
 Project ID: MD-NATIONAL
 Project Number(s): 0 % MD_CROP_PROT % 100 % MD_CROP_PROT
 Protocol Developer: Riley, Eric
 License User: Michael, Janis

General Trial Information

Trial Initiation Date: Apr-27-2021 **Protocol Edition No.:** 1.04
Trial Status: E **Trial Status Date:** Mar-31-2021
Last change done by: Dr. Mark M. Loux **Date of last export:** Mar-31-2021 11:34 AM
External Trial: X

Final Data Due: Sep-15-2021

Please verify that the crop/harvest have been destroyed.

Destroyed? Explanation Method Destruction Date
 YES Mowed off MOWED Jul-22-2021

TD Number(s): ¹ LOCALCREATED

Objectives: ¹ PHYTOTOX ² EFFICACY

License User: Michael, Janis
Department: Bayer CropScience LP

Protocol Developer: Riley, Eric
Department: Bayer CropScience LP

Trial Officer: Stevenson, Rod

Cooperator (Outside service): Mark Loux
Affiliation: Ohio State University
Street: Western Ag Research Station
City: South Charleston
Postal Code: 45368
Telephone: (614) 292-9081
E-Mail: loux.1@osu.edu

Farmer Name: -

Site and Design

Field Name: Western Branch Big E
City: South Charleston
Postal Code: 45368
County: Clark
State/Province: OH
Country: USA

Altitude (m): 335

Latitude, Longitude of Trial Corners

Lower Left
Latitude: 39.85647
Longitude: -83.67022

No. of Replicates: 4 **No. of Treatments:** 12 **No. of Plots:** 48
Plot Width: 2.033 m **Plot Length:** 9.14 m

Plot Area: 18.59 m²

Site Type: FIELD

Tillage Type: CONTIL

Test Type: EXTER

Trial Design: RACOB

Most relevant weather station: Western OARDC
Distance: 304.8 M

Official Weather Station: X

Previous Crops and Agricultural Chemicals

Previous Crops **Year**
 GLXMA C BSOY 2020

Soil Description

Soil Name: Kokomo
Texture: SICL **% Sand:** 44 **% Silt:** 45
 % Clay: 11
% Organic Matter: 3.1
 pH: 6.6 **Cation Exchange Capacity:** 15
Fertility Level: G
Soil Drainage: G

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Crop Description

Crop 1: ZEAMD **Discipline:** C **Crop Scale:** BCOR **Use Group:** A2
 Zea mays L. ssp. indentata STU
 Corn, dent
Variety: DKC59-81RIB
Variety Characteristic: RR+LL+BT
Seed Lot No.: H49NYX7JXG
% Germination: 95
Seed Treatment Products: Acceleron
Seed/Planting Date: Apr-27-2021
Depth: 5.08 CM
Seed/Plant Count: 79300 S/HA
Rows Per Plot: 4
Row Spacing: 76.2 CM
Planting Method: PLANTD
Planting Implement: FPP
Emergence Crop Date: May-14-2021
Seed Bed: MEDIUM

Target Description

- Target 1:** SETFA **Discipline:** W **Target Scale:** BGRM
 Setaria faberi HERRM.
 Foxtail, giant
- Target 2:** ECHCG **Discipline:** W **Target Scale:** BGRM
 Echinochloa crus-galli (L.) P.
 Barnyardgrass, common
- Target 3:** AMBTR **Discipline:** W **Target Scale:** BDIC
 Ambrosia trifida L.
 Ragweed, giant
- Target 4:** CHEAL **Discipline:** W **Target Scale:** BDIC
 Chenopodium album L.
 Lambsquarters, common
- Target 5:** POLPY **Discipline:** W **Target Scale:** BDIC
 Polygonum pensylvanicum L.
 Smartweed, Pennsylvania
- Target 6:** AMARE **Discipline:** W **Target Scale:** BDIC
 Amaranthus retroflexus L.
 Redroot pigweed
- Target 7:** ABUTH **Discipline:** W **Target Scale:** BDIC
 Abutilon theophrasti MEDIK.
 Velvetleaf
- Target 8:** HIBTR **Discipline:** W **Target Scale:** BDIC
 Hibiscus trionum L.
 Mallow, Venice

Application Description

A
Application Date: Apr-28-2021
Application Timing: PREPRE
Appl. Start - Time of Day: 7:30 AM
Appl. Stop: 8:00 AM
Appl. Rain 0-6H: 0 CM
Time b. Appl./first Rain: 12 HR
% Relative Humidity: 65
Air Temperature: 18.89 C
% Cloud Cover: 40
Appl. Wind Strength: LIG
Wind Velocity: 9.66 KPH
Wind Direction/Degrees: WSW
Plant Condition: NOTREP
Soil Temperature: 58 C
Soil Moisture: DRY
Soil Condition (surface): MEDIUM
Problems with Application? No

Crop Stage at Application

A
Crop 1/Disc./Scale: ZEAMD C BCOR
Days after Emergence: -16
Application Plant Condition: NORMAL
Stage Majority/Percent: 00 100

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Target Stage at Application

A	
Target 1/Disc./Scale	SETFA W BGRM
Stage Majority/Percent	00
Density	488 PLA/M2
Target 2/Disc./Scale	ECHCG W BGRM
Density	117 PLA/M2
Target 3/Disc./Scale	AMBTR W BDIC
Density	35 PLA/M2
Target 4/Disc./Scale	CHEAL W BDIC
Density	35 PLA/M2
Target 5/Disc./Scale	POLPY W BDIC
Density	2 PLA/M2
Target 6/Disc./Scale	AMARE W BDIC
Density	30 PLA/M2
Target 7/Disc./Scale	ABUTH W BDIC
Density	3 PLA/M2
Target 8/Disc./Scale	HIBTR W BDIC
Density	1 PLA/M2

Application Equipment

A	
Application Method	NONINC
Application Placement	BROSOI
Application Equipment	BACCAI
Ground Speed	4.82999992 KPH
Propellant Type	COMCO2
Carrier	WATER
Water Hardness	240
Carrier pH	7.8
Minimum Mix/Treatment	1.0433 L
Operating Pressure	2.896 BAR
Nozzle Type	TEEJTA
Nozzle Size	1110015
Nozzle Spacing	45.7 CM
Boom Height	50.7999992 CM
Plot Size	18.6 M2

Unique Col. ID	4	5	6	7	8	9
Orig./Calc. Flag	O	O	O	O	O	O
SE Group	2	3	4	5	6	7
SE ID	PE12AD1	EE22AD3	EE22AD3	EE22AD3	EE22AD3	EE22AD3
SE Label	Estimat	1 weed,	1 weed,	1 weed,	1 weed,	1 weed,
Target		1 SETFA	2 ECHCG	3 AMBTR	4 CHEAL	5 POLPY
-Disc./Scale		W BGRM	W BGRM	W BDIC	W BDIC	W BDIC
Crop	1 ZEAMD					
-Disc./Scale	C BCOR					
Variety	DKC59-81RI					
B						
-Characteristic	RR+LL+BT					
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Assessment Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Assessment Unit	%	%	%	%	%	%
Sample Size	1	1	1	1	1	1
Sample Size Unit	PLOT	PLOT	PLOT	PLOT	PLOT	PLOT
Sample Size (total)	1	1	1	1	1	1
# Subsamples	1	1	1	1	1	1
Assessment Date	May-19-2021	May-19-2021	May-19-2021	May-19-202	May-19-202	May-19-202
Appl.-Ass.Interval	21 DAA	21 DAA	21 DAA	21 DAA	21 DAA	21 DAA
Days after first Appl.	21 DAA	21 DAA	21 DAA	21 DAA	21 DAA	21 DAA
Days after last Appl.	21 DAA	21 DAA	21 DAA	21 DAA	21 DAA	21 DAA
Plant.-Ass.Interval	22 DP1	22 DP1	22 DP1	22 DP1	22 DP1	22 DP1
Days after Emergence	5 DE-1	5 DE-1	5 DE-1	5 DE-1	5 DE-1	5 DE-1
Decimals Printed	0	0	0	0	0	0
ARM Action Codes	P	P EC	P EC	P EC	P EC	P EC
Untreated	CANOPY	CANOPY	CANOPY	CANOPY	CANOPY	CANOPY

Entry No.	Entry/Trt. Description	Trans. Dose	Trans. Dose	Appl. Unit Code	1*	2*	3*	4*	5*	6*
1	UNTREATED				0	0	0	0	0	0

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Unique Col. ID	4	5	6	7	8	9				
Orig./Calc. Flag	O	O	O	O	O	O				
SE Group	2	3	4	5	6	7				
SE ID	PE12AD1	EE22AD3	EE22AD3	EE22AD3	EE22AD3	EE22AD3				
SE Label	Estimat	1 weed,	1 weed,	1 weed,	1 weed,	1 weed,				
Target		1 SETFA	2 ECHCG	3 AMBTR	4 CHEAL	5 POLPY				
-Disc./Scale		W BGRM	W BGRM	W BDIC	W BDIC	W BDIC				
Crop	1 ZEAMD									
-Disc./Scale	C BCOR									
Variety	DKC59-81RI									
	B									
-Characteristic	RR+LL+BT									
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT				
Assessment Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Assessment Unit	%	%	%	%	%	%				
Sample Size	1	1	1	1	1	1				
Sample Size Unit	PLOT	PLOT	PLOT	PLOT	PLOT	PLOT				
Sample Size (total)	1	1	1	1	1	1				
# Subsamples	1	1	1	1	1	1				
Assessment Date	May-19-2021	May-19-2021	May-19-2021	May-19-2021	May-19-2021	May-19-2021				
Appl.-Ass.Interval	21 DAA	21 DAA	21 DAA	21 DAA	21 DAA	21 DAA				
Days after first Appl.	21 DAA	21 DAA	21 DAA	21 DAA	21 DAA	21 DAA				
Days after last Appl.	21 DAA	21 DAA	21 DAA	21 DAA	21 DAA	21 DAA				
Plant.-Ass.Interval	22 DP1	22 DP1	22 DP1	22 DP1	22 DP1	22 DP1				
Days after Emergence	5 DE-1	5 DE-1	5 DE-1	5 DE-1	5 DE-1	5 DE-1				
Decimals Printed	0	0	0	0	0	0				
ARM Action Codes	P	P EC	P EC	P EC	P EC	P EC				
Untreated	CANOPY	CANOPY	CANOPY	CANOPY	CANOPY	CANOPY				
Entry No.	Entry/Trt. Description	Trans. Dose	Trans. Dose	Appl. Unit Code	1*	2*	3*	4*	5*	6*
2	FFA+IFT+TCM+CSA	15 oz/a		A	0 -	85 ab	85 ab	65 -	100 -	100 -
	ATRAZINE	1 qt/a		A						
3	CORVUS HERBICIDE	4.5 oz/a		A	0 -	81 abc	81 ab	68 -	100 -	100 -
	ATRAZINE	1 qt/a		A						
4	ACURON HERBICIDE	2.25 qt/a		A	0 -	86 ab	86 a	65 -	100 -	100 -
5	RESICORE HERBICIDE	2.25 qt/a		A	0 -	88 ab	88 a	65 -	100 -	100 -
	ATRAZINE	1 qt/a		A						
6	SURESTART II	2.25 pt/a		A	0 -	86 ab	81 ab	65 -	100 -	100 -
	ATRAZINE	1 qt/a		A						
	STANDARD - LOCAL			A						
7	FFA+IFT+TCM+CSA	18.75 oz/a		A	0 -	86 ab	86 a	73 -	100 -	100 -
	ATRAZINE	1 qt/a		A						
8	FFA+IFT+TCM+CSA	20 oz/a		A	0 -	79 bc	79 ab	75 -	100 -	100 -
	ATRAZINE	1 qt/a		A						
9	CORVUS HERBICIDE	5.6 oz/a		A	0 -	73 c	73 b	73 -	100 -	100 -
	ATRAZINE	1 qt/a		A						
10	ACURON HERBICIDE	3.0 qt/a		A	0 -	89 ab	89 a	65 -	100 -	100 -
11	RESICORE HERBICIDE	3.0 qt/a		A	0 -	93 a	93 a	78 -	100 -	100 -
	ATRAZINE	1 qt/a		A						
12	SURESTART II	3 pt/a		A	0 -	93 a	93 a	70 -	100 -	100 -
	ATRAZINE	1 qt/a		A						
LSD P=.05					.	7.8	8.9	19.2	.	.
Standard Deviation					0.0	5.4	6.1	13.3	0.0	0.0
CV					0.0	6.37	7.24	19.2	0.0	0.0
Levene's F^					.	0.79	2.62	2.129	.	.
Levene's Prob(F)					.	0.638	0.018*	0.05	.	.
Skewness^					.	-0.2737	-0.051	-0.0803	.	.
Kurtosis^					.	0.4903	0.442	0.2271	.	.
Replicate F					0.000	6.196	3.993	15.938	0.000	0.000
Replicate Prob(F)					1.0000	0.0021	0.0166	0.0001	1.0000	1.0000
Treatment F					0.000	4.895	3.966	0.491	0.000	0.000
Treatment Prob(F)					1.0000	0.0003	0.0016	0.8828	1.0000	1.0000

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Unique Col. ID	10	11	12	16	17	18	19
Orig./Calc. Flag	O	O	O	O	O	O	O
SE Group	8	9	10	14	15	16	17
SE ID	EE22AD3	EE22AD3	EE22AD3	PE12AD1	EE22AD3	EE22AD3	EE22AD3
SE Label	1 weed,	1 weed,	1 weed,	Estimat	1 weed,	1 weed,	1 weed,
Target	6 AMARE	7 ABUTH	8 HIBTR		1 SETFA	2 ECHCG	3 AMBTR
-Disc./Scale	W BDIC	W BDIC	W BDIC		W BGRM	W BGRM	W BDIC
Crop				1 ZEAMD			
-Disc./Scale				C BCOR			
Variety				DKC59-81RI			
				B			
-Characteristic				RR+LL+BT			
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT
Assessment Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO
Assessment Unit	%	%	%	%	%	%	%
Sample Size	1	1	1	1	1	1	1
Sample Size Unit	PLOT	PLOT	PLOT	PLOT	PLOT	PLOT	PLOT
Sample Size (total)	1	1	1	1	1	1	1
# Subsamples	1	1	1	1	1	1	1
Assessment Date	May-19-202	May-19-202	May-19-2021	Jun-4-2021	Jun-4-202	Jun-4-2021	Jun-4-202
	1	1			1		1
Appl.-Ass.Interval	21 DAA	21 DAA	21 DAA	37 DAA	37 DAA	37 DAA	37 DAA
Days after first Appl.	21 DAA	21 DAA	21 DAA	37 DAA	37 DAA	37 DAA	37 DAA
Days after last Appl.	21 DAA	21 DAA	21 DAA	37 DAA	37 DAA	37 DAA	37 DAA
Plant.-Ass.Interval	22 DP1	22 DP1	22 DP1	38 DP1	38 DP1	38 DP1	38 DP1
Days after Emergence	5 DE-1	5 DE-1	5 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1
Decimals Printed	0	0	0	0	0	0	0
ARM Action Codes	P EC	P EC	P EC	P	P EC	P EC	P EC
Untreated	CANOPY	CANOPY	CANOPY	CANOPY	CANOPY	CANOPY	CANOPY

Entry No.	Entry/Trt. Description	Trans. Dose	Trans. Dose	Appl. Unit Code	7*	8*	9*	10*	11*	12*	13*
1	UNTREATED				0	0	0	0-	0	0	0

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Unique Col. ID	10	11	12	16	17	18	19				
Orig./Calc. Flag	O	O	O	O	O	O	O				
SE Group	8	9	10	14	15	16	17				
SE ID	EE22AD3	EE22AD3	EE22AD3	PE12AD1	EE22AD3	EE22AD3	EE22AD3				
SE Label	1 weed,	1 weed,	1 weed,	Estimat	1 weed,	1 weed,	1 weed,				
Target	6 AMARE	7 ABUTH	8 HIBTR		1 SETFA	2 ECHCG	3 AMBTR				
-Disc./Scale	W BDIC	W BDIC	W BDIC		W BGRM	W BGRM	W BDIC				
Crop				1 ZEAMD							
-Disc./Scale				C BCOR							
Variety				DKC59-81RI							
				B							
-Characteristic				RR+LL+BT							
Part Rated	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT				
Assessment Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO				
Assessment Unit	%	%	%	%	%	%	%				
Sample Size	1	1	1	1	1	1	1				
Sample Size Unit	PLOT	PLOT	PLOT	PLOT	PLOT	PLOT	PLOT				
Sample Size (total)	1	1	1	1	1	1	1				
# Subsamples	1	1	1	1	1	1	1				
Assessment Date	May-19-202	May-19-202	May-19-2021	Jun-4-2021	Jun-4-202	Jun-4-2021	Jun-4-202				
	1	1			1		1				
Appl.-Ass.Interval	21 DAA	21 DAA	21 DAA	37 DAA	37 DAA	37 DAA	37 DAA				
Days after first Appl.	21 DAA	21 DAA	21 DAA	37 DAA	37 DAA	37 DAA	37 DAA				
Days after last Appl.	21 DAA	21 DAA	21 DAA	37 DAA	37 DAA	37 DAA	37 DAA				
Plant.-Ass.Interval	22 DP1	22 DP1	22 DP1	38 DP1	38 DP1	38 DP1	38 DP1				
Days after Emergence	5 DE-1	5 DE-1	5 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1				
Decimals Printed	0	0	0	0	0	0	0				
ARM Action Codes	P EC	P EC	P EC	P	P EC	P EC	P EC				
Untreated	CANOPY	CANOPY	CANOPY	CANOPY	CANOPY	CANOPY	CANOPY				
Entry No.	Entry/Trt. Description	Trans. Dose	Trans. Dose	Appl. Unit Code	7*	8*	9*	10*	11*	12*	13*
2	FFA+IFT+TCM+CSA	15 oz/a		A	100 -	99 -	100 -	0 -	63 -	63 -	53 -
	ATRAZINE	1 qt/a		A							
3	CORVUS HERBICIDE	4.5 oz/a		A	100 -	99 -	100 -	0 -	60 -	60 -	44 -
	ATRAZINE	1 qt/a		A							
4	ACURON HERBICIDE	2.25 qt/a		A	100 -	100 -	100 -	0 -	63 -	63 -	45 -
5	RESICORE HERBICIDE	2.25 qt/a		A	100 -	95 -	100 -	0 -	60 -	60 -	43 -
	ATRAZINE	1 qt/a		A							
6	SURESTART II	2.25 pt/a		A	100 -	99 -	100 -	0 -	56 -	56 -	38 -
	ATRAZINE	1 qt/a		A							
	STANDARD - LOCAL			A							
7	FFA+IFT+TCM+CSA	18.75 oz/a		A	100 -	98 -	100 -	0 -	72 -	72 -	55 -
	ATRAZINE	1 qt/a		A							
8	FFA+IFT+TCM+CSA	20 oz/a		A	100 -	97 -	100 -	0 -	56 -	56 -	54 -
	ATRAZINE	1 qt/a		A							
9	CORVUS HERBICIDE	5.6 oz/a		A	100 -	99 -	100 -	0 -	55 -	55 -	58 -
	ATRAZINE	1 qt/a		A							
10	ACURON HERBICIDE	3.0 qt/a		A	100 -	99 -	100 -	0 -	68 -	68 -	55 -
11	RESICORE HERBICIDE	3.0 qt/a		A	100 -	100 -	100 -	0 -	74 -	74 -	61 -
	ATRAZINE	1 qt/a		A							
12	SURESTART II	3 pt/a		A	100 -	99 -	100 -	0 -	69 -	69 -	25 -
	ATRAZINE	1 qt/a		A							
LSD P=.05					.	5.2	.	.	12.8	12.8	20.9
Standard Deviation					0.0	3.6	0.0	0.0	8.9	8.9	14.4
CV					0.0	3.64	0.0	0.0	14.08	14.08	30.06
Levene's F^					.	0.515	.	.	0.389	0.389	0.738
Levene's Prob(F)					.	0.867	.	.	0.942	0.942	0.684
Skewness^					.	-1.7826*	.	.	-0.6436	-0.6436	0.9232*
Kurtosis^					.	6.6255*	.	.	0.4076	0.4076	2.0365*
Replicate F					0.000	2.223	0.000	0.000	14.891	14.891	20.743
Replicate Prob(F)					1.0000	0.1060	1.0000	1.0000	0.0001	0.0001	0.0001
Treatment F					0.000	0.666	0.000	0.000	2.144	2.144	2.134
Treatment Prob(F)					1.0000	0.7464	1.0000	1.0000	0.0521	0.0521	0.0532

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Unique Col. ID	20	21	22	25	26	27	28				
Orig./Calc. Flag	O	O	O	O	O	O	O				
SE Group	18	19	20	23	24	25	26				
SE ID	EE22AD3	EE22AD3	EE22AD3	PE12AD1	EE22AD3	EE22AD3	EE22AD3				
SE Label	1 weed,	1 weed,	1 weed,	Estimat	1 weed,	1 weed,	1 weed,				
Target	4 CHEAL	6 AMARE	5 POLPY		1 SETFA	2 ECHCG	3 AMBTR				
-Disc./Scale	W BDIC	W BDIC	W BDIC		W BGRM	W BGRM	W BDIC				
Crop				1 ZEAMD							
-Disc./Scale				C BCOR							
Variety				DKC59-81RI							
-Characteristic				B							
Part Rated				RR+LL+BT							
Assessment Type	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT	PLANT				
Assessment Unit	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO				
Sample Size	%	%	%	%	%	%	%				
Sample Size Unit	1	1	1	1	1	1	1				
Sample Size (total)	PLOT	PLOT	PLOT	PLOT	PLOT	PLOT	PLOT				
# Subsamples	1	1	1	1	1	1	1				
Assessment Date	Jun-4-202	Jun-4-202	Jun-4-202	Jun-23-2021	Jun-23-202	Jun-23-2021	Jun-23-202				
Appl.-Ass.Interval	1	1	1	1	1	1	1				
Days after first Appl.	37 DAA	37 DAA	37 DAA	56 DAA	56 DAA	56 DAA	56 DAA				
Days after last Appl.	37 DAA	37 DAA	37 DAA	56 DAA	56 DAA	56 DAA	56 DAA				
Plant.-Ass.Interval	38 DP1	38 DP1	38 DP1	57 DP1	57 DP1	57 DP1	57 DP1				
Days after Emergence	21 DE-1	21 DE-1	21 DE-1	40 DE-1	40 DE-1	40 DE-1	40 DE-1				
Decimals Printed	0	0	0	0	0	0	0				
ARM Action Codes	P EC	P EC	ET10 P EC	P	P EC	P EC	P EC				
Untreated	CANOPY	CANOPY	CANOPY	CANOPY	CANOPY	CANOPY	CANOPY				
Entry No.	Entry/Trt. Description	Trans. Dose	Trans. Dose	Appl. Unit Code	14*	15*	16*	17*	18*	19*	20*
2	FFA+IFT+TCM+CSA	15 oz/a		A	100 -	100 -	100 -	0 -	55 -	33 ab	33 -
	ATRAZINE	1 qt/a		A							
3	CORVUS HERBICIDE	4.5 oz/a		A	100 -	100 -	100 -	0 -	43 -	33 ab	25 -
	ATRAZINE	1 qt/a		A							
4	ACURON HERBICIDE	2.25 qt/a		A	100 -	100 -	100 -	0 -	53 -	30 ab	20 -
5	RESICORE HERBICIDE	2.25 qt/a		A	100 -	100 -	100 -	0 -	50 -	23 b	18 -
	ATRAZINE	1 qt/a		A							
6	SURESTART II	2.25 pt/a		A	100 -	100 -	100 -	0 -	43 -	23 b	13 -
	ATRAZINE	1 qt/a		A							
	STANDARD - LOCAL			A							
7	FFA+IFT+TCM+CSA	18.75 oz/a		A	100 -	100 -	100 -	0 -	63 -	55 a	38 -
	ATRAZINE	1 qt/a		A							
8	FFA+IFT+TCM+CSA	20 oz/a		A	100 -	100 -	100 -	0 -	58 -	33 ab	23 -
	ATRAZINE	1 qt/a		A							
9	CORVUS HERBICIDE	5.6 oz/a		A	100 -	100 -	100 -	0 -	45 -	23 b	28 -
	ATRAZINE	1 qt/a		A							
10	ACURON HERBICIDE	3.0 qt/a		A	100 -	100 -	98	0 -	56 -	35 ab	35 -
11	RESICORE HERBICIDE	3.0 qt/a		A	100 -	100 -	100 -	0 -	60 -	38 ab	33 -
	ATRAZINE	1 qt/a		A							
12	SURESTART II	3 pt/a		A	100 -	100 -	100 -	0 -	60 -	38 ab	18 -
	ATRAZINE	1 qt/a		A							
LSD P=.05					.	.	.	.	13.7	16.6	21.0
Standard Deviation					0.0	0.0	0.0	0.0	9.5	11.5	14.6
CV					0.0	0.0	0.0	0.0	17.88	35.04	57.22
Levene's F^					.	.	.	.	1.104	1.291	1.484
Levene's Prob(F)					.	.	.	.	0.388	0.275	0.189
Skewness^					.	.	.	.	-0.0516	0.0447	0.4102
Kurtosis^					.	.	.	.	0.2041	-0.294	-0.3135
Replicate F					0.000	0.000	0.000	0.000	7.192	10.276	15.457
Replicate Prob(F)					1.0000	1.0000	1.0000	1.0000	0.0009	0.0001	0.0001
Treatment F					0.000	0.000	0.000	0.000	2.296	2.641	1.269
Treatment Prob(F)					1.0000	1.0000	1.0000	1.0000	0.0384	0.0194	0.2913

The Ohio State University

BCS-720/Corn/PRE/Grass & Broadleaf/Phyto & Efficacy

Trial ID: HN21USAEOATRS2 TD Number: LOCALCREATED Protocol Edition No.: 1.04
 Project ID: MD-NATIONAL
 Project Number(s): 0 % MD_CROP_PROT % 100 % MD_CROP_PROT
 Protocol Developer: Riley, Eric
 License User: Michael, Janis

Unique Col. ID	29	30	31	13	2
Orig./Calc. Flag	O	O	O	O	O
SE Group	27	28	29	11	
SE ID	EE22AD3	EE22AD3	EE22AD3		
SE Label	1 weed,	1 weed,	1 weed,		
Target	4 CHEAL	6 AMARE	5 POLPY		
-Disc./Scale	W BDIC	W BDIC	W BDIC		
Crop					
-Disc./Scale					
Variety					
-Characteristic					
Part Rated	PLANT	PLANT	PLANT		
Assessment Type	CONTRO	CONTRO	CONTRO		
Assessment Unit	%	%	%		
Sample Size	1	1	1		
Sample Size Unit	PLOT	PLOT	PLOT		
Sample Size (total)	1	1	1		
# Subsamples	1	1	1		
Assessment Date	Jun-23-202	Jun-23-202	Jun-23-202		
	1	1	1		
Appl.-Ass.Interval	56 DAA	56 DAA	56 DAA		
Days after first Appl.	56 DAA	56 DAA	56 DAA		
Days after last Appl.	56 DAA	56 DAA	56 DAA		
Plant.-Ass.Interval	57 DP1	57 DP1	57 DP1		
Days after Emergence	40 DE-1	40 DE-1	40 DE-1		
Decimals Printed	0	0	0		
ARM Action Codes	ET6 P EC	P EC	P EC		
Untreated	CANOPY	CANOPY	CANOPY		
Entry Entry/Trt.	Trans.	Trans.	Appl.	21*	22*
No. Description	Dose	Dose	Unit Code	23*	24 25
1 UNTREATED	0	0	0		

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BCS-720/Corn/PRE/Grass & Broadleaf/Phyto & Efficacy

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 Project ID: MD-NATIONAL
 Project Number(s): 0 % MD_CROP_PROT % 100 % MD_CROP_PROT
 Protocol Developer: Riley, Eric
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Unique Col. ID	29	30	31	13	2
Orig./Calc. Flag	O	O	O	O	O
SE Group	27	28	29	11	
SE ID	EE22AD3	EE22AD3	EE22AD3		
SE Label	1 weed,	1 weed,	1 weed,		
Target	4 CHEAL	6 AMARE	5 POLPY		
-Disc./Scale	W BDIC	W BDIC	W BDIC		
Crop					
-Disc./Scale					
Variety					
-Characteristic					
Part Rated	PLANT	PLANT	PLANT		
Assessment Type	CONTRO	CONTRO	CONTRO		
Assessment Unit	%	%	%		
Sample Size	1	1	1		
Sample Size Unit	PLOT	PLOT	PLOT		
Sample Size (total)	1	1	1		
# Subsamples	1	1	1		
Assessment Date	Jun-23-202	Jun-23-202	Jun-23-202		
Appl.-Ass.Interval	56 DAA	56 DAA	56 DAA		
Days after first Appl.	56 DAA	56 DAA	56 DAA		
Days after last Appl.	56 DAA	56 DAA	56 DAA		
Plant.-Ass.Interval	57 DP1	57 DP1	57 DP1		
Days after Emergence	40 DE-1	40 DE-1	40 DE-1		
Decimals Printed	0	0	0		
ARM Action Codes	ET6 P EC	P EC	P EC		
Untreated	CANOPY	CANOPY	CANOPY		

Entry No.	Entry/Trt. Description	Trans. Dose	Trans. Dose	Appl. Unit Code	21*	22*	23*	24	25
2	FFA+IFT+TCM+CSA	15 oz/a		A	100 -	100 -	100 -		
	ATRAZINE	1 qt/a		A					
3	CORVUS HERBICIDE	4.5 oz/a		A	100 -	100 -	100 -		
	ATRAZINE	1 qt/a		A					
4	ACURON HERBICIDE	2.25 qt/a		A	100 -	100 -	100 -		
5	RESICORE HERBICIDE	2.25 qt/a		A	100 -	100 -	100 -		
	ATRAZINE	1 qt/a		A					
6	SURESTART II	2.25 pt/a		A	95	100 -	100 -		
	ATRAZINE	1 qt/a		A					
	STANDARD - LOCAL			A					
7	FFA+IFT+TCM+CSA	18.75 oz/a		A	100 -	100 -	100 -		
	ATRAZINE	1 qt/a		A					
8	FFA+IFT+TCM+CSA	20 oz/a		A	100 -	100 -	100 -		
	ATRAZINE	1 qt/a		A					
9	CORVUS HERBICIDE	5.6 oz/a		A	100 -	100 -	100 -		
	ATRAZINE	1 qt/a		A					
10	ACURON HERBICIDE	3.0 qt/a		A	100 -	100 -	100 -		
11	RESICORE HERBICIDE	3.0 qt/a		A	100 -	100 -	100 -		
	ATRAZINE	1 qt/a		A					
12	SURESTART II	3 pt/a		A	100 -	100 -	100 -		
	ATRAZINE	1 qt/a		A					
LSD P=.05					.	.	.	.	.
Standard Deviation					0.0	0.0	0.0	.	.
CV					0.0	0.0	0.0	.	.
Levene's F^					.	.	.	.	.
Levene's Prob(F)					.	.	.	.	.
Skewness^					.	.	.	.	.
Kurtosis^					.	.	.	.	.
Replicate F					0.000	0.000	0.000		
Replicate Prob(F)					1.0000	1.0000	1.0000		
Treatment F					0.000	0.000	0.000		
Treatment Prob(F)					1.0000	1.0000	1.0000		

The Ohio State University
BCS-720/Corn/PRE/Grass & Broadleaf/Phyto & Efficacy

Trial ID: HN21USAEOATRS2 TD Number: LOCALCREATED Protocol Edition No.: 1.04
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Project Number(s): 0 % MD_CROP_PROT % 100 % MD_CROP_PROT
Protocol Developer: Riley, Eric
License User: Michael, Janis

SE ID

PE12AD1 = Estimation % phytotoxicity (PHYGEN) (symptoms describe in co
EE22AD3 = 1 weed, % efficacy, in untreated % coverage

Target

- 1, SETFA, W, BGRM, , , = Setaria faberi HERRM.
- 2, ECHCG, W, BGRM, , , = Echinochloa crus-galli (L.) P.
- 3, AMBTR, W, BDIC, , , = Ambrosia trifida L.
- 4, CHEAL, W, BDIC, , , = Chenopodium album L.
- 5, POLPY, W, BDIC, , , = Polygonum pensylvanicum L.
- 6, AMARE, W, BDIC, , , = Amaranthus retroflexus L.
- 7, ABUTH, W, BDIC, , , = Abutilon theophrasti MEDIK.
- 8, HIBTR, W, BDIC, , , = Hibiscus trionum L.

Crop

1, ZEAMD, C, BCOR, DKC59-81RIB, RR+LL+BT = Zea mays L. ssp. indentata STU

Part Rated

PLANT = Plant

Assessment Type

PHYGEN = Phytotoxicity - General, Injury

CONTRO = Control

Assessment Unit

% = Percent

Sample Size Unit

PLOT = Plot

Plant.-Ass.Interval

22 DP1 = 1 ZEAMD Apr-27-2021

38 DP1 = 1 ZEAMD Apr-27-2021

57 DP1 = 1 ZEAMD Apr-27-2021

ARM Action Codes

P = Rating scale of 0 to 100 (e.g. control or injury)

EC = Do not analyze untreated check, and report check treatment mean on AOV Means Tab

ET10 = Excluded treatment 10

ET6 = Excluded treatment 6

Untreated

CANOPY = Canopy