

The Ohio State University

Evaluate two formulations of Impact CORE compared to tank-mix of Harness plus Impact for safety and efficacy in corn.

Trial ID: 21IMPACTCORE Location: Trial Year: 2021
 Protocol ID: 21C04H050 Investigator (Creator): Dr. Mark M. Loux
 Project ID: 050 Study Director:
 Sponsor Contact:

Discipline: H herbicide
Trial Status: E established
ARM Trial Created On: Mar-31-2021 **Trial Usage/Type:** DEV Development/Registration
Initiation Date: May-27-2021 **Planned Completion Date:** Aug-20-2021

Trial Location

City: South Charleston **Country:** USA United States
State/Prov.: Ohio
Postal Code: 45368

Latitude of LL Corner °: 39.85676 N
Longitude of LL Corner °: -83.67016 W
Altitude of LL Corner: 1097.00 FT

Conducted Under GLP: No
Conducted Under GEP: No

Crop Description

Crop 1: C ZEAMX Zea mays Corn **BBCH Scale:** BCOR
Entry Date: May-3-2021 **Stage Scale:** BBCH
Variety: SCS1111Q
Attributes: Glyphosate tolerant
Planting Date: Apr-27-2021 **Planting Rate:** 32097 S/A
Depth: 2 IN
Rows per Plot: 4 **Planting Method:** PLANTD planted
Row Spacing: 30 IN **Planting Equipment:** FPP finger pickup planter
Seed Bed: MEDIUM medium
Soil Moisture: SLIDRY slightly dry
Soil Temperature: 63 F
Emergence Date: May-14-2021

Pest Description

Pest 1 Type: W **Code:** SETFA *Setaria faberi* **Entry Date:** Jun-2-2021
Common Name: Giant foxtail **Stage Scale:** BBCH
Attributes: Natural population

Pest 2 Type: W **Code:** AMBTR *Ambrosia trifida* **Entry Date:** Jun-2-2021
Common Name: Giant ragweed **Stage Scale:** BBCH
Attributes: Natural population

Pest 3 Type: W **Code:** CHEAL *Chenopodium album* **Entry Date:** Jun-2-2021
Common Name: common lambsquarters **Stage Scale:** BBCH
Attributes: Natural population

Pest 4 Type: W **Code:** AMARE *Amaranthus retroflexus* **Entry Date:** Jun-2-2021
Common Name: Redroot pigweed **Stage Scale:** BBCH
Attributes: Natural population

Pest 5 Type: W **Code:** ABUTH *Abutilon theophrasti* **Entry Date:** Jun-2-2021
Common Name: velvetleaf **Stage Scale:** BBCH
Attributes: Natural population

Pest 6 Type: W **Code:** POLPY *Persicaria pensylvanica* **Entry Date:** Jun-2-2021
Common Name: annual smartweed **Stage Scale:** BBCH
Attributes: Natural population

Site and Design

Treated Plot Width: 6.67 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT **Experimental Unit:** 4 ROW row
Treated Plot Area: 200.1 FT² **Treatments:** 10 **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** RACOB� Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

Previous

No. Crop Year
 1. SOYBEANS 2020

Field Prep./Maintenance:

Maintain fertility program for optimum corn growth. Conventional tillage is required for this trial.

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Soil Description

Description Name: Big E
 % Sand: 44 % OM: 3.1 Texture: SICL silty clay loam
 % Silt: 45 pH: 6.6 Soil Name: Kokomo
 % Clay: 11 CEC: 15 Fert. Level: G good
 g o o d

Application Description

Application Date May-27-2021
 Appl. Start Time 8:30 AM
 Appl. Stop Time 9:00 AM
 Application Method SPRAY
 Application Timing POSPOS
 Application Placement BROFOL
 Applied By Dobbels
 Appl. Entry Date Jun-2-2021
 Air Temperature Start, Stop 64 64 F
 % Relative Humidity Start, Stop 79 80
 Wind Velocity+Dir. Start 6 MPH ENE
 Wind Velocity+Dir. Stop 6 MPH ENE
 Wind Velocity+Dir. Max 7 MPH ENE
 Wet Leaves (Y/N) Y yes
 Soil Temperature 64 F
 Soil Moisture WET
 Soil Surface Condition MEDIUM
 % Cloud Cover 5
 Next Moisture Occurred On May-28-2021
 Time to Next Moisture 1.0 DAY
 Moisture 6 Hours after Appl. 0 IN
 Moisture 1 Week after Appl. 0.76 IN

Protocol Application Directions:

Water Volume and Source: Apply at 15 GPA. If water is known to have mineral content, report water hardness.

Application Timing: Make application to corn at growth stage of V2-V3 and to emerged weeds, and apply before grasses reach ~3 inches in size.

Please record following information in **SITE DESCRIPTION** sections:

Crop/Weed Information: Crop stage & height; weed stages & heights, & densities at application.

Application details: Date, time, sprayer type, water pH, GPA, PSI, nozzle type and orifice.

Use a spray nozzle which produces medium to coarse size droplets (approximate VMD range of 250 to 400 microns). Do not use a spray nozzle which produces very coarse, extremely coarse, or ultra coarse spray droplets, and do not use air induction spray nozzles.

Environmental Conditions: Air temp, wind speed & direction, humidity, & percent cloud cover at application.

Crop Stage At Each Application

Crop 1 Code, BBCH Scale ZEAMX BCOR
 Days after Emergence 13
 Stage Majority, Percent V2-V3 100
 Height Average 7 IN
 Height Minimum, Maximum 5 8

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Pest Stage At Each Application

	A	
Pest 1 Code, Type, Scale	SETFA	W BBCH
Stage Majority, Percent	13	90
Stage Minimum, Percent	11	10
Stage Maximum, Percent	13	90
Height Average	3	IN
Height Minimum, Maximum	1	5
Density Average	234	PLA/m2
Density Minimum, Maximum	232	248
Pest 2 Code, Type, Scale	AMBTR	W BBCH
Stage Majority, Percent	14	80
Stage Minimum, Percent	12	10
Stage Maximum, Percent	16	10
Height Average	3	I
Height Minimum, Maximum	2	6
Density Average	15	PLA/m2
Density Minimum, Maximum	8	24
Pest 3 Code, Type, Scale	CHEAL	W BBCH
Stage Majority, Percent	16	60
Stage Minimum, Percent	12	10
Stage Maximum, Percent	18	20
Height Average	1	IN
Height Minimum, Maximum	1	2
Density Average	7	PLA/m2
Density Minimum, Maximum	12	48
Pest 4 Code, Type, Scale	AMARE	W BBCH
Stage Majority, Percent	14	80
Stage Minimum, Percent	12	10
Stage Maximum, Percent	16	10
Height Average	0.5	IN
Height Minimum, Maximum	0.5	1
Pest 5 Code, Type, Scale	ABUTH	W BBCH
Stage Majority, Percent	12	100
Height Average	0.5	IN
Height Minimum, Maximum	0.5	1
Density Average	0.25	PLA/m2
Density Minimum, Maximum	0	1
Pest 6 Code, Type, Scale	POLPY	W BBCH
Stage Majority, Percent	13	80
Stage Minimum, Percent	12	10
Stage Maximum, Percent	14	10
Height Average	2	IN
Height Minimum, Maximum	1	2
Density Average	1	PLA/m2
Density Minimum, Maximum	0	2

Application Equipment

	A	
Equipment Type	BACCAI	
Operation Pressure	44	PSI
Nozzle Model	110015	
Nozzle Type	AI XR	
Nozzle Spacing	18	IN
Boom Length	10	FT
Boom Height	20	IN
Ground Speed	3	MPH
Carrier	WATER	
Water Hardness (ppm CaCO3)	250	
Application Amount	15	GAL/AC
Mix Overage	25	mL
Mix Size	2	L
Spray pH	7.8	
Propellant	COMCO2	
Tank Mix (Y/N)	Y	yes

Protocol Equipment Comment:

Small plot equipment.

Notes

Context	Date	By	Notes
STATUS	Mar-31-2021	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	May-3-2021	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'E' when Initiation Date entered.

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Protocol ID: 21C04H050 Investigator (Creator): Dr. Mark M. Loux
Project ID: 050 Study Director:
Sponsor Contact:

Instructions:

ADDITIONAL REQUESTED INFORMATION AND COMMENTS:

Protocol Deviations: Provide a written description and assessment of any difficulties, problems or unusual occurrences during the conduct of the trial. Examples include deviations from protocol and application problems or errors. Call your regional AMVAC product development manager as soon as possible if a significant deviation occurs, or if you have questions on problems encountered in the trial.

Digital photographs: Digital photographs from at least one replicate in trial to show performance of all treatments at each crop injury and efficacy evaluation are requested. If injury greater than 10% is observed in a treatment, a few close-up photos should be taken showing symptoms observed.

Running Checks: Running checks between plots are required in this trial. Since weed pressure often varies across a trial, a running check provides an adjacent comparison for evaluations.

Product Samples: AMVAC will provide a samples of Impact CORE (**Note 2 different lot numbers will be used**), Impact (use 2020 lot number) and Harness which will ship from LABServices. Cooperator is requested to provide atrazine 4SC, NIS and dry ammonium sulfate (AMS) for trial. If liquid AMS will be used instead of dry, the product rate per acre must be equivalent to specified rate of dry AMS (use liquid product which contains 3.4 lb/gal of AMS).

Geographic Area/Environmental Considerations:

Select site with moderate to heavy broadleaf weed pressure and light to moderate grass weed pressure. Target a site with medium texture soil for trial.

In **Soil Description** section, report soil texture and % sand/silt/clay, soil pH, CEC, OM, etc.

In **Weather** section, report weather data for test site, including daily high and low temperature (F) and rainfall or irrigation in trial.

Cropping Considerations:

A glyphosate-tolerant or LL hybrid may be used for this trial. Select a locally adapted corn hybrid.

Data to Collect:

Percent necrosis, chlorosis and stunting (0 to 100%) should be evaluated at 7, 14 and 28 days after application. If injury is not observed in a treatment, report a zero for that treatment in the assessment data for each type of injury evaluation and at each rating interval.

Percent weed control (0 to 100%) by species should be evaluated at 14, 28 and 42 days after application. Identify individual weed by species using the scientific name in ARM (note this is critical).

Yields will not be taken in trial.

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Statistical Analysis:

Not required.

Pest Type
 Pest Code
 Pest Scientific Name

Pest Name

	C ZEAMX	C ZEAMX	C ZEAMX	C ZEAMX	C ZEAMX	C ZEAMX
Crop Type, Code	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR
BBCH Scale						
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn
Rating Date	Jun-4-2021	Jun-4-2021	Jun-4-2021	Jun-11-2021	Jun-11-2021	Jun-11-2021
SE Group No.	7	7	7	7	7	7
Part Rated	PLANT C	PLANT C	PLANT C	PLANT C	PLANT C	PLANT C
Rating Type	PHYNEC	PHYCHL	PHYSTU	PHYNEC	PHYCHL	PHYSTU
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100
Sample Size	2 ROW	2 ROW	2 ROW	2 ROW	2 ROW	2 ROW
Collection Basis	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1	1
Data Entry Date	Jun-4-2021	Jun-4-2021	Jun-2-2021	Jul-26-2021	Jul-26-2021	Jul-26-2021
Days After First/Last Applic.	8 8	8 8	8 8	15 15	15 15	15 15
Trt-Eval Interval	8 DA-A	8 DA-A	8 DA-A	15 DA-A	15 DA-A	15 DA-A
Plant-Eval Interval	38 DP-1	38 DP-1	38 DP-1	45 DP-1	45 DP-1	45 DP-1
Days After Emergence	21 DE-1	21 DE-1	21 DE-1	28 DE-1	28 DE-1	28 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	1*	2*	3*	4*	5*	6*
1	IMPACT CORE 009	30 fl oz/a		A	3 a	2 bc	0 -	0 -	1 -	0 -
	NIS	0.3 pt/a		A						
	AMS	2.5 lb/a		A						
2	IMPACT CORE 0073	30 fl oz/a		A	4 a	2 bc	0 -	0 -	2 -	0 -
	NIS	0.3 pt/a		A						
	AMS	2.5 lb/a		A						
3	HARNESS	30.35 fl oz/a		A	4 a	1 cd	0 -	0 -	0 -	0 -
	IMPACT	0.76 fl oz/a		A						
	NIS	0.3 pt/a		A						
	AMS	2.5 lb/a		A						
4	IMPACT CORE 009	30 fl oz/a		A	4 a	4 ab	0 -	0 -	1 -	0 -
	ATRAZINE	32 fl oz/a		A						
	NIS	0.3 pt/a		A						
	AMS	2.5 lb/a		A						
5	IMPACT CORE 0073	30 fl oz/a		A	5 a	5 a	0 -	0 -	1 -	0 -
	ATRAZINE	32 fl oz/a		A						
	NIS	0.3 pt/a		A						
	AMS	2.5 lb/a		A						
6	HARNESS	30.35 fl oz/a		A	4 a	3 ab	0 -	0 -	0 -	0 -
	IMPACT	0.76 fl oz/a		A						
	ATRAZINE	32 fl oz/a		A						
	NIS	0.3 pt/a		A						
	AMS	2.5 lb/a		A						
7	IMPACT CORE 009	30 fl oz/a		A	3 a	5 a	0 -	0 -	0 -	0 -
	ATRAZINE	64 fl oz/a		A						
	NIS	0.3 pt/a		A						
	AMS	2.5 lb/a		A						
8	IMPACT CORE 0073	30 fl oz/a		A	4 a	3 ab	0 -	0 -	0 -	0 -
	ATRAZINE	64 fl oz/a		A						
	NIS	0.3 pt/a		A						
	AMS	2.5 lb/a		A						
9	HARNESS	30.35 fl oz/a		A	4 a	4 ab	0 -	0 -	0 -	0 -
	IMPACT	0.76 fl oz/a		A						
	ATRAZINE	64 fl oz/a		A						
	NIS	0.3 pt/a		A						
	AMS	2.5 lb/a		A						

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Pest Type
 Pest Code
 Pest Scientific Name

Pest Name

Crop Type, Code	C	ZEAMX	C	ZEAMX	C	ZEAMX	C	ZEAMX	C	ZEAMX	C	ZEAMX
BBCH Scale		BCOR		BCOR		BCOR		BCOR		BCOR		BCOR
Crop Scientific Name		Zea mays		Zea mays		Zea mays		Zea mays		Zea mays		Zea mays
Crop Name		Corn		Corn		Corn		Corn		Corn		Corn
Rating Date		Jun-4-2021		Jun-4-2021		Jun-4-2021		Jun-11-2021		Jun-11-2021		Jun-11-2021
SE Group No.		7		7		7		7		7		7
Part Rated		PLANT C		PLANT C		PLANT C		PLANT C		PLANT C		PLANT C
Rating Type		PHYNEC		PHYCHL		PHYSTU		PHYNEC		PHYCHL		PHYSTU
Rating Unit/Min/Max		% 0		% 0		% 0		% 0		% 0		% 0
		100		100		100		100		100		100
Sample Size	2	ROW	2	ROW	2	ROW	2	ROW	2	ROW	2	ROW
Collection Basis	1	PLOT	1	PLOT	1	PLOT	1	PLOT	1	PLOT	1	PLOT
Number of Subsamples		1		1		1		1		1		1
Data Entry Date		Jun-4-2021		Jun-4-2021		Jun-2-2021		Jul-26-2021		Jul-26-2021		Jul-26-2021
Days After First/Last Applic.		8 8		8 8		8 8		15 15		15 15		15 15
Trt-Eval Interval		8 DA-A		8 DA-A		8 DA-A		15 DA-A		15 DA-A		15 DA-A
Plant-Eval Interval		38 DP-1		38 DP-1		38 DP-1		45 DP-1		45 DP-1		45 DP-1
Days After Emergence		21 DE-1		21 DE-1		21 DE-1		28 DE-1		28 DE-1		28 DE-1
Number of Decimals		0		0		0		0		0		0

Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	1*	2*	3*	4*	5*	6*
10 UTC				0 b	0 d	0 -	0 -	0 -	0 -
LSD P=.05				1.9	1.4	.	.	1.2	.
Standard Deviation				1.3	1.0	0.0	0.0	0.8	0.0
CV				39.47	36.69	0.0	0.0	205.82	0.0
Levene's F^				2.552	1.01	.	.	1.491	.
Levene's Prob(F)				0.026*	0.454	.	.	0.197	.
Skewness^				0.3118	-0.5421	.	.	0.6676	.
Kurtosis^				-0.2499	0.7615	.	.	2.9781*	.
Replicate F				2.987	5.094	0.000	0.000	0.098	0.000
Replicate Prob(F)				0.0487	0.0064	1.0000	1.0000	0.9602	1.0000
Treatment F				3.891	8.932	0.000	0.000	2.148	0.000
Treatment Prob(F)				0.0029	0.0001	1.0000	1.0000	0.0604	1.0000

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	AMARE	ABUTH
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Chenopodium alb>	Amaranthus retr>	Abutilon theoph>
Pest Name	Giant foxtail	Giant ragweed	common lambsqua>	Redroot pigweed	velvetleaf
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jun-11-2021	Jun-11-2021	Jun-11-2021	Jun-11-2021	Jun-11-2021
SE Group No.	11	12	13	14	15
Part Rated	PLANT P	PLANT P	PLANT P	PLANT P	PLANT P
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100
Sample Size	2 ROW	2 ROW	2 ROW	2 ROW	2 ROW
Collection Basis	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jun-11-2021	Jun-11-2021	Jun-11-2021	Jun-11-2021	Jun-11-2021
Days After First/Last Applic.	15 15	15 15	15 15	15 15	15 15
Trt-Eval Interval	15 DA-A	15 DA-A	15 DA-A	15 DA-A	15 DA-A
Plant-Eval Interval	45 DP-1	45 DP-1	45 DP-1	45 DP-1	45 DP-1
Days After Emergence	28 DE-1	28 DE-1	28 DE-1	28 DE-1	28 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	7*	8*	9*	10*	11*
1	IMPACT CORE 009	30 fl oz/a		A	88 cde	92 ab	95 a	100 -	100 -
	NIS	0.3 pt/a		A					
	AMS	2.5 lb/a		A					
2	IMPACT CORE 0073	30 fl oz/a		A	87 de	88 bc	97 a	100 -	100 -
	NIS	0.3 pt/a		A					
	AMS	2.5 lb/a		A					
3	HARNESS	30.35 fl oz/a		A	86 e	84 c	100 a	100 -	100 -
	IMPACT	0.76 fl oz/a		A					
	NIS	0.3 pt/a		A					
	AMS	2.5 lb/a		A					
4	IMPACT CORE 009	30 fl oz/a		A	97 ab	99 a	100 a	100 -	100 -
	ATRAZINE	32 fl oz/a		A					
	NIS	0.3 pt/a		A					
	AMS	2.5 lb/a		A					
5	IMPACT CORE 0073	30 fl oz/a		A	98 a	99 a	100 a	100 -	100 -
	ATRAZINE	32 fl oz/a		A					
	NIS	0.3 pt/a		A					
	AMS	2.5 lb/a		A					
6	HARNESS	30.35 fl oz/a		A	98 a	97 a	100 a	100 -	100 -
	IMPACT	0.76 fl oz/a		A					
	ATRAZINE	32 fl oz/a		A					
	NIS	0.3 pt/a		A					
	AMS	2.5 lb/a		A					
7	IMPACT CORE 009	30 fl oz/a		A	90 b-e	96 a	78 a	100 -	100 -
	ATRAZINE	64 fl oz/a		A					
	NIS	0.3 pt/a		A					
	AMS	2.5 lb/a		A					
8	IMPACT CORE 0073	30 fl oz/a		A	95 abc	98 a	100 a	100 -	100 -
	ATRAZINE	64 fl oz/a		A					
	NIS	0.3 pt/a		A					
	AMS	2.5 lb/a		A					
9	HARNESS	30.35 fl oz/a		A	94 a-d	97 a	100 a	100 -	100 -
	IMPACT	0.76 fl oz/a		A					
	ATRAZINE	64 fl oz/a		A					
	NIS	0.3 pt/a		A					
	AMS	2.5 lb/a		A					

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Pest Scientific Name	Setaria faberi	Ambrosia trifida	Chenopodium alb>	Amaranthus retr>	Abutilon theoph>
Pest Name	Giant foxtail	Giant ragweed	common lambsqua>	Redroot pigweed	velvetleaf
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jun-11-2021	Jun-11-2021	Jun-11-2021	Jun-11-2021	Jun-11-2021
SE Group No.	11	12	13	14	15
Part Rated	PLANT P	PLANT P	PLANT P	PLANT P	PLANT P
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	% 0 %	0 100	% 0 100	% 0 100	% 0 100
Sample Size	2	2	2	2	2
Collection Basis	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jun-11-2021	Jun-11-2021	Jun-11-2021	Jun-11-2021	Jun-11-2021
Days After First/Last Applic.	15 15	15 15	15 15	15 15	15 15
Trt-Eval Interval	15 DA-A	15 DA-A	15 DA-A	15 DA-A	15 DA-A
Plant-Eval Interval	45 DP-1	45 DP-1	45 DP-1	45 DP-1	45 DP-1
Days After Emergence	28 DE-1	28 DE-1	28 DE-1	28 DE-1	28 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	7*	8*	9*	10*	11*
10	UTC				0 f	0	0 b	0 -	0 -
	LSD P=.05				5.0	6.4	20.7	.	.
	Standard Deviation				3.5	4.4	14.3	0.0	0.0
	CV				4.17	4.66	16.43	0.0	0.0
	Levene's F^				0.717	0.23	0.715	.	.
	Levene's Prob(F)				0.69	0.982	0.691	.	.
	Skewness^				-0.07	-0.8256*	-3.1087*	.	.
	Kurtosis^				-0.8733	0.0543	17.4785*	.	.
	Replicate F				5.990	1.183	1.125	0.000	0.000
	Replicate Prob(F)				0.0029	0.3372	0.3564	1.0000	1.0000
	Treatment F				290.734	6.336	19.248	0.000	0.000
	Treatment Prob(F)				0.0001	0.0002	0.0001	1.0000	1.0000

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Pest Type	W Weed	W Weed	W Weed
Pest Code	HIBTR	SETFA	AMBTR
Pest Scientific Name	Hibiscus trionum	Setaria faberi	Ambrosia trifida
Pest Name	Venice mallow	Giant foxtail	Giant ragweed
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Rating Date	Jun-11-2021	Jun-24-2021	Jun-24-2021
SE Group No.	16	7	7
Part Rated	PLANT P	PLANT C	PLANT C
Rating Type	CONTRO	PHYNEC	PHYCHL
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100
Sample Size	2 ROW	2 ROW	2 ROW
Collection Basis	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1
Data Entry Date	Jun-11-2021	Jul-26-2021	Jul-26-2021
Days After First/Last Applic.	15 15	28 28	28 28
Trt-Eval Interval	15 DA-A	28 DA-A	28 DA-A
Plant-Eval Interval	45 DP-1	58 DP-1	58 DP-1
Days After Emergence	28 DE-1	41 DE-1	41 DE-1
Number of Decimals	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	12* dAL	13*	14*	15*	16*	17*
1	IMPACT CORE 009	30 fl oz/a	A		83 a	0 -	0 -	0 -	74 b	69 -
	NIS	0.3 pt/a	A							
	AMS	2.5 lb/a	A							
2	IMPACT CORE 0073	30 fl oz/a	A		70 a	0 -	0 -	0 -	76 ab	70 -
	NIS	0.3 pt/a	A							
	AMS	2.5 lb/a	A							
3	HARNESS	30.35 fl oz/a	A		65 a	0 -	0 -	0 -	75 ab	71 -
	IMPACT	0.76 fl oz/a	A							
	NIS	0.3 pt/a	A							
	AMS	2.5 lb/a	A							
4	IMPACT CORE 009	30 fl oz/a	A		100 a	0 -	0 -	0 -	85 ab	78 -
	ATRAZINE	32 fl oz/a	A							
	NIS	0.3 pt/a	A							
	AMS	2.5 lb/a	A							
5	IMPACT CORE 0073	30 fl oz/a	A		100 a	0 -	0 -	0 -	86 a	80 -
	ATRAZINE	32 fl oz/a	A							
	NIS	0.3 pt/a	A							
	AMS	2.5 lb/a	A							
6	HARNESS	30.35 fl oz/a	A		100 a	0 -	0 -	0 -	84 ab	76 -
	IMPACT	0.76 fl oz/a	A							
	ATRAZINE	32 fl oz/a	A							
	NIS	0.3 pt/a	A							
	AMS	2.5 lb/a	A							
7	IMPACT CORE 009	30 fl oz/a	A		100 a	0 -	0 -	0 -	84 ab	76 -
	ATRAZINE	64 fl oz/a	A							
	NIS	0.3 pt/a	A							
	AMS	2.5 lb/a	A							
8	IMPACT CORE 0073	30 fl oz/a	A		100 a	0 -	0 -	0 -	84 ab	75 -
	ATRAZINE	64 fl oz/a	A							
	NIS	0.3 pt/a	A							
	AMS	2.5 lb/a	A							
9	HARNESS	30.35 fl oz/a	A		100 a	0 -	0 -	0 -	78 ab	74 -
	IMPACT	0.76 fl oz/a	A							
	ATRAZINE	64 fl oz/a	A							
	NIS	0.3 pt/a	A							
	AMS	2.5 lb/a	A							

The Ohio State University

Evaluate two formulations of Impact CORE compared to tank-mix of Harness plus impact for safety and efficacy in corn.

Trial ID: 21IMPACTCORE Location: Trial Year: 2021
 Protocol ID: 21C04H050 Investigator (Creator): Dr. Mark M. Loux
 Project ID: 050 Study Director:
 Sponsor Contact:

Tri	Treatment	Other	Other	Appl	12*	13*	14*	15*	16*	17*
No.	Name	Rate	Rate	Unit Code	dAL					
	10 UTC				0 b	0 -	0 -	0 -	0	0
	LSD P=.05				21.8 - 24.9	.	.	.	7.4	10.0
	Standard Deviation				0.1t	0.0	0.0	0.0	5.1	6.8
	CV				4.82t	0.0	0.0	0.0	6.3	9.21
	Levene's F^				0.858	.	.	.	2.054	0.797
	Levene's Prob(F)				0.571	.	.	.	0.078	0.61
	Skewness^				-2.2665*	.	.	.	-0.4273	-0.5145
	Kurtosis^				10.3171*	.	.	.	1.0843	-0.2902
	Replicate F				1.583	0.000	0.000	0.000	3.114	2.941
	Replicate Prob(F)				0.2165	1.0000	1.0000	1.0000	0.0450	0.0535
	Treatment F				215.662	0.000	0.000	0.000	3.565	1.263
	Treatment Prob(F)				0.0001	1.0000	1.0000	1.0000	0.0074	0.3080

Pest Type	W Weed	W Weed	W Weed
Pest Code	HIBTR	SETFA	AMBTR
Pest Scientific Name	Hibiscus trionum	Setaria faberi	Ambrosia trifida
Pest Name	Venice mallow	Giant foxtail	Giant ragweed
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Rating Date	Jun-11-2021	Jun-24-2021	Jun-24-2021
SE Group No.	16	7	7
Part Rated	PLANT P	PLANT C	PLANT C
Rating Type	CONTRO	PHYNEC	PHYSTU
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100
Sample Size	2 ROW	2 ROW	2 ROW
Collection Basis	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1
Data Entry Date	Jun-11-2021	Jul-26-2021	Jul-26-2021
Days After First/Last Applic.	15 15	28 28	28 28
Tri-Eval Interval	15 DA-A	28 DA-A	28 DA-A
Plant-Eval Interval	45 DP-1	58 DP-1	58 DP-1
Days After Emergence	28 DE-1	41 DE-1	41 DE-1
Number of Decimals	0	0	0

The Ohio State University

Evaluate two formulations of Impact CORE compared to tank-mix of Harness plus impact for safety and efficacy in corn.

Trial ID: 21IMPACTCORE Location: Trial Year: 2021
 Protocol ID: 21C04H050 Investigator (Creator): Dr. Mark M. Loux
 Project ID: 050 Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMARE	ABUTH	HIBTR	SETFA
Pest Scientific Name	Chenopodium alb>	Amaranthus retr>	Abutilon theoph>	Hibiscus trionum	Setaria faberi
Pest Name	common lambsqua>	Redroot pigweed	velvetleaf	Venice mallow	Giant foxtail
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jun-24-2021	Jun-24-2021	Jun-24-2021	Jun-24-2021	Jul-8-2021
SE Group No.	20	21	22	23	24
Part Rated	PLANT P	PLANT P	PLANT P	PLANT P	PLANT P
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100
Sample Size	2 ROW	2 ROW	2 ROW	2 ROW	2 ROW
Collection Basis	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jun-24-2021	Jun-24-2021	Jun-24-2021	Jun-24-2021	Jul-13-2021
Days After First/Last Applic.	28 28	28 28	28 28	28 28	42 42
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A	28 DA-A	42 DA-A
Plant-Eval Interval	58 DP-1	58 DP-1	58 DP-1	58 DP-1	72 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	Other Rate	Other Rate	Appl Unit Code	18*	19*	20*	21*	22*
1	IMPACT CORE 009	30 fl oz/a		A	90 a	100 -	86 a	74 ab	83 -
	NIS	0.3 pt/a		A					
	AMS	2.5 lb/a		A					
2	IMPACT CORE 0073	30 fl oz/a		A	95 a	100 -	80 a	65 b	81 -
	NIS	0.3 pt/a		A					
	AMS	2.5 lb/a		A					
3	HARNESS	30.35 fl oz/a		A	91 a	100 -	100 a	63 b	83 -
	IMPACT	0.76 fl oz/a		A					
	NIS	0.3 pt/a		A					
	AMS	2.5 lb/a		A					
4	IMPACT CORE 009	30 fl oz/a		A	95 a	100 -	100 a	96 a	88 -
	ATRAZINE	32 fl oz/a		A					
	NIS	0.3 pt/a		A					
	AMS	2.5 lb/a		A					
5	IMPACT CORE 0073	30 fl oz/a		A	100 a	100 -	100 a	100 a	89 -
	ATRAZINE	32 fl oz/a		A					
	NIS	0.3 pt/a		A					
	AMS	2.5 lb/a		A					
6	HARNESS	30.35 fl oz/a		A	96 a	100 -	95 a	85 ab	91 -
	IMPACT	0.76 fl oz/a		A					
	ATRAZINE	32 fl oz/a		A					
	NIS	0.3 pt/a		A					
	AMS	2.5 lb/a		A					
7	IMPACT CORE 009	30 fl oz/a		A	99 a	100 -	100 a	100 a	87 -
	ATRAZINE	64 fl oz/a		A					
	NIS	0.3 pt/a		A					
	AMS	2.5 lb/a		A					
8	IMPACT CORE 0073	30 fl oz/a		A	100 a	100 -	100 a	95 a	89 -
	ATRAZINE	64 fl oz/a		A					
	NIS	0.3 pt/a		A					
	AMS	2.5 lb/a		A					
9	HARNESS	30.35 fl oz/a		A	95 a	100 -	100 a	100 a	87 -
	IMPACT	0.76 fl oz/a		A					
	ATRAZINE	64 fl oz/a		A					
	NIS	0.3 pt/a		A					
	AMS	2.5 lb/a		A					

The Ohio State University

Evaluate two formulations of Impact CORE compared to tank-mix of Harness plus impact for safety and efficacy in corn.

Trial ID: 21IMPACTCORE Location: Trial Year: 2021
 Protocol ID: 21C04H050 Investigator (Creator): Dr. Mark M. Loux
 Project ID: 050 Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMARE	ABUTH	HIBTR	SETFA
Pest Scientific Name	Chenopodium alb>	Amaranthus retr>	Abutilon theoph>	Hibiscus trionum	Setaria faberi
Pest Name	common lambsqua>	Redroot pigweed	velvetleaf	Venice mallow	Giant foxtail
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jun-24-2021	Jun-24-2021	Jun-24-2021	Jun-24-2021	Jul-8-2021
SE Group No.	20	21	22	23	24
Part Rated	PLANT P	PLANT P	PLANT P	PLANT P	PLANT P
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100
Sample Size	2 ROW	2 ROW	2 ROW	2 ROW	2 ROW
Collection Basis	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jun-24-2021	Jun-24-2021	Jun-24-2021	Jun-24-2021	Jul-13-2021
Days After First/Last Applic.	28 28	28 28	28 28	28 28	42 42
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A	28 DA-A	42 DA-A
Plant-Eval Interval	58 DP-1	58 DP-1	58 DP-1	58 DP-1	72 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.	18*	19*	20*	21*	22*
Treatment Name					
Other Rate					
Other Rate					
Appl Unit Code					
10 UTC	0 b	0 -	0 b	0 c	0
LSD P=.05	9.8	.	14.5	19.4	6.5
Standard Deviation	6.8	0.0	10.0	13.4	4.5
CV	7.85	0.0	11.63	17.18	5.19
Levene's F^	0.703	.	6.553	1.936	1.049
Levene's Prob(F)	0.701	.	0.00*	0.085	0.426
Skewness^	-0.4732	.	-0.4899	-0.2438	-0.297
Kurtosis^	-0.6321	.	1.7948*	0.9238	0.0895
Replicate F	3.076	0.000	0.871	3.907	3.265
Replicate Prob(F)	0.0444	1.0000	0.4684	0.0194	0.0388
Treatment F	81.097	0.000	38.519	21.495	2.313
Treatment Prob(F)	0.0001	1.0000	0.0001	0.0001	0.0536

The Ohio State University

Evaluate two formulations of Impact CORE compared to tank-mix of Harness plus impact for safety and efficacy in corn.

Trial ID: 21IMPACTCORE Location: Trial Year: 2021
 Protocol ID: 21C04H050 Investigator (Creator): Dr. Mark M. Loux
 Project ID: 050 Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	AMARE	ABUTH	HIBTR
Pest Scientific Name	Ambrosia trifida	Chenopodium alb>	Amaranthus retr>	Abutilon theoph>	Hibiscus trionum
Pest Name	Giant ragweed	common lambsqua>	Redroot pigweed	velvetleaf	Venice mallow
Crop Type, Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jul-8-2021	Jul-8-2021	Jul-8-2021	Jul-8-2021	Jul-8-2021
SE Group No.	25	26	27	28	29
Part Rated	PLANT P	PLANT P	PLANT P	PLANT P	PLANT P
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100
Sample Size	2 ROW	2 ROW	2 ROW	2 ROW	2 ROW
Collection Basis	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jul-13-2021	Jul-13-2021	Jul-13-2021	Jul-13-2021	Jul-13-2021
Days After First/Last Applic.	42 42	42 42	42 42	42 42	42 42
Trt-Eval Interval	42 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A
Plant-Eval Interval	72 DP-1	72 DP-1	72 DP-1	72 DP-1	72 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	Other Rate	Other Rate	Appl Unit Code	23*	24*	25*	26*	27*
1	IMPACT CORE 009	30 fl oz/a		A	78 a	82 b	100 -	95 ab	75 ab
	NIS	0.3 pt/a		A					
	AMS	2.5 lb/a		A					
2	IMPACT CORE 0073	30 fl oz/a		A	79 a	88 ab	100 -	86 b	63 bc
	NIS	0.3 pt/a		A					
	AMS	2.5 lb/a		A					
3	HARNESS	30.35 fl oz/a		A	77 a	88 ab	100 -	98 a	48 c
	IMPACT	0.76 fl oz/a		A					
	NIS	0.3 pt/a		A					
	AMS	2.5 lb/a		A					
4	IMPACT CORE 009	30 fl oz/a		A	81 a	95 ab	100 -	100 a	100 a
	ATRAZINE	32 fl oz/a		A					
	NIS	0.3 pt/a		A					
	AMS	2.5 lb/a		A					
5	IMPACT CORE 0073	30 fl oz/a		A	82 a	100 a	100 -	100 a	100 a
	ATRAZINE	32 fl oz/a		A					
	NIS	0.3 pt/a		A					
	AMS	2.5 lb/a		A					
6	HARNESS	30.35 fl oz/a		A	80 a	100 a	100 -	95 ab	99 a
	IMPACT	0.76 fl oz/a		A					
	ATRAZINE	32 fl oz/a		A					
	NIS	0.3 pt/a		A					
	AMS	2.5 lb/a		A					
7	IMPACT CORE 009	30 fl oz/a		A	85 a	100 a	100 -	100 a	100 a
	ATRAZINE	64 fl oz/a		A					
	NIS	0.3 pt/a		A					
	AMS	2.5 lb/a		A					
8	IMPACT CORE 0073	30 fl oz/a		A	84 a	100 a	100 -	100 a	100 a
	ATRAZINE	64 fl oz/a		A					
	NIS	0.3 pt/a		A					
	AMS	2.5 lb/a		A					
9	HARNESS	30.35 fl oz/a		A	78 a	100 a	100 -	100 a	100 a
	IMPACT	0.76 fl oz/a		A					
	ATRAZINE	64 fl oz/a		A					
	NIS	0.3 pt/a		A					
	AMS	2.5 lb/a		A					

The Ohio State University

Evaluate two formulations of Impact CORE compared to tank-mix of Harness plus impact for safety and efficacy in corn.

Trial ID: 21IMPACTCORE Location: Trial Year: 2021
 Protocol ID: 21C04H050 Investigator (Creator): Dr. Mark M. Loux
 Project ID: 050 Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBTR	CHEAL	AMARE	ABUTH	HIBTR			
Pest Scientific Name	Ambrosia trifida	Chenopodium alb>	Amaranthus retr>	Abutilon theoph>	Hibiscus trionum			
Pest Name	Giant ragweed	common lambsqua>	Redroot pigweed	velvetleaf	Venice mallow			
Crop Type, Code								
BBCH Scale								
Crop Scientific Name								
Crop Name								
Rating Date	Jul-8-2021	Jul-8-2021	Jul-8-2021	Jul-8-2021	Jul-8-2021			
SE Group No.	25	26	27	28	29			
Part Rated	PLANT P	PLANT P	PLANT P	PLANT P	PLANT P			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit/Min/Max	% 0 100	% 0 100	% 0 100	% 0 100	% 0 100			
Sample Size	2 ROW	2 ROW	2 ROW	2 ROW	2 ROW			
Collection Basis	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT			
Number of Subsamples	1	1	1	1	1			
Data Entry Date	Jul-13-2021	Jul-13-2021	Jul-13-2021	Jul-13-2021	Jul-13-2021			
Days After First/Last Applic.	42 42	42 42	42 42	42 42	42 42			
Trt-Eval Interval	42 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A			
Plant-Eval Interval	72 DP-1	72 DP-1	72 DP-1	72 DP-1	72 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 No. Name	Other Rate	Other Rate	Appl Unit Code	23*	24*	25*	26*	27*
10 UTC				0 b	0 c	0 -	0 c	0 d
LSD P=.05				6.8	9.8	.	8.0	18.5
Standard Deviation				4.7	6.8	0.0	5.5	12.8
CV				6.51	7.95	0.0	6.3	16.31
Levene's F^				0.52	4.089	.	0.94	0.856
Levene's Prob(F)				0.849	0.002*	.	0.506	0.573
Skewness^				-1.0644*	-0.2138	.	-0.9133*	1.9066*
Kurtosis^				2.3209*	-0.1053	.	2.7918*	7.3181*
Replicate F				4.853	2.761	0.000	1.398	1.748
Replicate Prob(F)				0.0079	0.0615	1.0000	0.2649	0.1809
Treatment F				117.579	82.098	0.000	127.090	27.506
Treatment Prob(F)				0.0001	0.0001	1.0000	0.0001	0.0001

The Ohio State University

Evaluate two formulations of Impact CORE compared to tank-mix of Harness plus Impact for safety and efficacy in corn.

Trial ID: 21IMPACTCORE	Location:	Trial Year: 2021
Protocol ID: 21C04H050	Investigator (Creator): Dr. Mark M. Loux	
Project ID: 050	Study Director:	
	Sponsor Contact:	

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
 AMARE, Amaranthus retroflexus, Redroot pigweed = US
 ABUTH, Abutilon theophrasti, velvetleaf = US
 HIBTR, Hibiscus trionum, Venice mallow = US

Crop Type, Code

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

Part Rated

PLANT = plant
 C = Crop is Part Rated
 P = Pest is Part Rated

Rating Type

PHYNEC = phytotoxicity - necrosis /burn
 PHYCHL = phytotoxicity - chlorosis
 PHYSTU = phytotoxicity - stunting
 CONTRO = control / burndown or knockdown

Rating Unit/Min/Max

%, 0, 100 = percent

ROW = row

PLOT = total plot

Plant-Eval Interval

38 DP-1 = 1 ZEAMX Apr-27-2021
 45 DP-1 = 1 ZEAMX Apr-27-2021
 58 DP-1 = 1 ZEAMX Apr-27-2021
 72 DP-1 = 1 ZEAMX Apr-27-2021