

# Purdue Weed Science

## AMVAC corn herbicide portfolio showcase for US university locations - medium to fine soils

Trial ID: 21S-TPAC-CORN-01      Location: TPAC      Trial Year: 2021  
 Protocol ID: 21S-TPAC-CORN-01      Investigator (Creator): Dr. Bill Johnson  
 Project ID:      Study Director: Joe Bruce  
    Sponsor Contact:

### General Trial Information

**Study Director:** Joe Bruce    **Title:** Technical Service Manager

**Discipline:** H herbicide  
**Trial Status:** E established

**Trial Reliability:** 1      usable data

**ARM Trial Created On:** 9/24/2021      **Trial Usage/Type:** DEV Development/Registration  
**Initiation Date:** 5/15/2021      **Planned Completion Date:** 9/30/2020

### Trial Location

**City:** Lafayette      **Country:** USA United States  
**State/Prov.:** Indiana  
**Postal Code:** 47907

**Latitude of LL Corner °:** 40.291447 N  
**Longitude of LL Corner °:** -86.908253 W

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

### Objectives:

Demonstrate the utility of Impact Core, Sinate and expanded Impact use rates for weed control in corn.

### Contacts

**Role:** STYDIR      study director  
**Study Director:** Joe Bruce      **Title:** Technical Service Manager  
**Organization:** AMVAC Chemical Corporation  
**Address 1:** 44 Waterford Ln      **Mobile No.:** 224-319-2000  
**Country:** USA      United States      **E-mail:** joeb@amvac.com  
**City:** Glen Carbon      **State/Prov:** IL

### Crop Description

**Crop 1:** C      ZEAMX Zea mays      Corn      **BBCH Scale:** BCOR  
**Entry Date:** 9/24/2021      **Stage Scale:** BBCH  
**Variety:** DKC62-52 RIB  
**Attributes:** glyphosate and glufosinate resistant corn  
**Planting Date:** 5/15/2021      **Planting Rate:** 32000      S/A  
**Depth:** 1.5      IN  
**Rows per Plot:** 4      **Planting Method:** PLANTD planted  
**Row Spacing:** 30      IN      **Planting Equipment:** PP plot planter  
**Soil Temperature:** 69      F      **Soil Moisture:** NORMAL normal, adequate  
**Emergence Date:** 5/23/2021

### Pest Description

**Pest 1 Type:** W    **Code:** ECHCG Echinochloa crus-galli  
**Common Name:** common barnyardgrass      **Stage Scale:** BBCH

**Pest 2 Type:** W    **Code:** AMBTR Ambrosia trifida  
**Common Name:** Giant ragweed      **Stage Scale:** BBCH

**Pest 3 Type:** W    **Code:** CHEAL Chenopodium album  
**Common Name:** common lambsquarters      **Stage Scale:** BBCH

### Site and Design

**Treated Plot Width:** 10 FT      **Site Type:** FIELD field  
**Treated Plot Length:** 30 FT      **Experimental Unit:** 4 ROW row  
**Treated Plot Area:** 300.0 FT2    **Treatments:** 15      **Tillage Type:** CONTIL conventional-till  
**Replications:** 4      **Study Design:** RAOBL Randomized Complete Block (RCB)

### Maintenance

No.	Date	Type	Maintenance Product Name	Description	Rate	Rate Unit
1.	5/9/2021	FERT	28% N	28% N	60	LB/A

### Field Prep./Maintenance:

Maintain fertility program for optimum corn growth. Target plant population which simulates commercial corn production in the area.

**Soil Description****Description Name:** TPAC - Field 4BE

**% Sand:** 21      **% OM:** 3.4      **Texture:** SIL      silt loam  
**% Silt:** 54      **pH:** 5.8      **Soil Name:** Toronto-Millbrook complex  
**% Clay:** 25      **CEC:** 13.5      **Fert. Level:** G      good

**Weather Conditions****Closest Weather Station:** TPAC    **Distance:** 0.5 MI

No.	Date	Moisture Total	Unit	Min Temp	Max Temp	Temp Unit
1.	5/1/2021	0	IN	40	63	F
2.	5/2/2021	0	IN	49	74	F
3.	5/3/2021	0.26	IN	56	78	F
4.	5/4/2021	0.01	IN	55	66	F
5.	5/5/2021	0.04	IN	43	59	F
6.	5/6/2021	0	IN	42	61	F
7.	5/7/2021	0.25	IN	38	58	F
8.	5/8/2021	0	IN	32	63	F
9.	5/9/2021	1.43	IN	40	57	F
10.	5/10/2021	0.37	IN	37	47	F
11.	5/11/2021	0.09	IN	39	59	F
12.	5/12/2021	0	IN	36	61	F
13.	5/13/2021	0	IN	38	60	F
14.	5/14/2021	0	IN	41	66	F
15.	5/15/2021	0	IN	46	70	F
16.	5/16/2021	0	IN	53	71	F
17.	5/17/2021	0.35	IN	55	71	F
18.	5/18/2021	0.12	IN	58	63	F
19.	5/19/2021	0	IN	59	72	F
20.	5/20/2021	0	IN	64	75	F
21.	5/21/2021	0	IN	64	84	F
22.	5/22/2021	0	IN	63	83	F
23.	5/23/2021	0	IN	63	85	F
24.	5/24/2021	0	IN	68	85	F
25.	5/25/2021	0	IN	67	88	F
26.	5/26/2021	0.32	IN	66	87	F
27.	5/27/2021	0.19	IN	58	81	F
28.	5/28/2021	0.08	IN	60	80	F
29.	5/29/2021	0.47	IN	43	61	F
30.	5/30/2021	0	IN	41	63	F
31.	5/31/2021	0	IN	43	71	F
32.	6/1/2021	0	IN	57	71	F
33.	6/2/2021	0.04	IN	58	74	F
34.	6/3/2021	0.03	IN	59	87	F
35.	6/4/2021	0	IN	61	82	F
36.	6/5/2021	0	IN	63	88	F
37.	6/6/2021	0	IN	66	86	F
38.	6/7/2021	0.01	IN	69	83	F
39.	6/8/2021	0.1	IN	69	83	F
40.	6/9/2021	0	IN	70	85	F
41.	6/10/2021	0	IN	67	85	F
42.	6/11/2021	0	IN	69	85	F
43.	6/12/2021	0	IN	67	90	F
44.	6/13/2021	0	IN	69	93	F
45.	6/14/2021	0	IN	63	86	F
46.	6/15/2021	0	IN	57	83	F
47.	6/16/2021	0	IN	53	81	F
48.	6/17/2021	0	IN	53	82	F
49.	6/18/2021	0.01	IN	61	86	F
50.	6/19/2021	0.47	IN	67	93	F

51.	6/20/2021	0	IN	67	81	F
52.	6/21/2021	0.1	IN	70	86	F
53.	6/22/2021	0	IN	49	72	F
54.	6/23/2021	0	IN	54	74	F
55.	6/24/2021	0	IN	60	77	F
56.	6/25/2021	1.19	IN	63	79	F
57.	6/26/2021	0.83	IN	70	81	F
58.	6/27/2021	1.05	IN	69	85	F
59.	6/28/2021	0.11	IN	69	86	F
60.	6/29/2021	0	IN	72	88	F
61.	6/30/2021	0	IN	72	89	F
62.	7/1/2021	0.35	IN	70	78	F
63.	7/2/2021	0	IN	55	82	F
64.	7/3/2021	0	IN	53	75	F
65.	7/4/2021	0	IN	57	78	F
66.	7/5/2021	0	IN	67	85	F
67.	7/6/2021	0	IN	68	86	F
68.	7/7/2021	0	IN	71	86	F
69.	7/8/2021	1.29	IN	67	86	F
70.	7/9/2021	0.05	IN	59	80	F
71.	7/10/2021	0.03	IN	61	73	F
72.	7/11/2021	0.1	IN	65	76	F
73.	7/12/2021	1.3	IN	66	76	F
74.	7/13/2021	0.4	IN	67	82	F
75.	7/14/2021	0.08	IN	65	79	F
76.	7/15/2021	0	IN	66	82	F
77.	7/16/2021	0.16	IN	69	86	F
78.	7/17/2021	0.1	IN	66	78	F
79.	7/18/2021	0.01	IN	66	80	F
80.	7/19/2021	0	IN	61	83	F
81.	7/20/2021	0	IN	61	82	F
82.	7/21/2021	0	IN	64	83	F
83.	7/22/2021	0	IN	64	79	F
84.	7/23/2021	0	IN	67	83	F
85.	7/24/2021	0	IN	71	86	F
86.	7/25/2021	0	IN	69	87	F
87.	7/26/2021	0	IN	65	88	F
88.	7/27/2021	0	IN	62	87	F
89.	7/28/2021	0	IN	66	86	F
90.	7/29/2021	0	IN	70	87	F
91.	7/30/2021	0	IN	65	88	F
92.	7/31/2021	0	IN	62	78	F

Application Description					
	A	B	C	D	E
Application Date	5/15/2021	6/1/2021	6/1/2021	6/12/2021	6/12/2021
Appl. Start Time	12:26 PM	11:45 AM	11:45 AM	2:43 PM	2:43 PM
Appl. Stop Time	12:34 PM	12:10 PM	12:10 PM	3:08 PM	3:08 PM
Application Method	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing	PREPRE	EAPOCR	MIPOCR	POSPOS	LAPOCR
Application Placement	BROADC	BROADC	BROADC	BROADC	BROADC
Appl. Entry Date	9/24/2021	9/24/2021	9/24/2021	9/24/2021	9/24/2021
Air Temperature Start, Stop	73, 73 F	66, 66 F	66, 66 F	95, 95 F	95, 95 F
% Relative Humidity Start, Stop	39, 39	63, 63	63, 63	41, 41	41, 41
Wind Velocity+Dir. Start	5 MPH, S	2.4 MPH, N	2.4 MPH, N	3 MPH, N	3 MPH, N
Wind Velocity+Dir. Stop	5 MPH, S	2.4 MPH, N	2.4 MPH, N	3 MPH, N	3 MPH, N
Wind Velocity+Dir. Max	5 MPH, S	2.4 MPH, N	2.4 MPH, N	3 MPH, N	3 MPH, N
Wet Leaves (Y/N)	N, no	N, no	N, no	N, no	N, no
Soil Temperature	69 F	63 F	63 F	98 F	98 F
Soil Moisture	NORMAL	NORMAL	NORMAL	DRY	DRY
% Cloud Cover	40	100	100	50	50

**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 applications as follows:  
 PREPRE - after planting, prior to crop emergence  
 EAPOCR - target V1-V2 corn stage, before weeds exceed 3"  
 MIPOCR - target 3-4" weed height  
 POSPOS - target 8-11" corn, before weeds exceed 4" or crop exceeds 12" height  
 LAPOCR - After crop exceeds 12" height, targeting 3-5" grass and 6-8" broadleaf weeds

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 240 to 400 microns). Do not use a spray nozzle which produces very coarse, extremely coarse, or ultra coarse spray droplets.

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

Crop Stage At Each Application					
	A	B	C	D	E
Crop 1 Code, BBCH Scale	ZEAMX, BCOR	ZEAMX, BCOR	ZEAMX, BCOR	ZEAMX, BCOR	ZEAMX, BCOR
Days after Emergence	-8	9	9	20	20
Stage Majority, Percent	00, -	12, -	12, -	15, -	15, -
Stage Minimum, Percent		12, -	12, -	14, -	14, -
Stage Maximum, Percent	07, -	12, -	12, -	15, -	15, -
Height Average		4 IN	4 IN	13 IN	13 IN
Height Minimum, Maximum		3, 5	3, 5	11, 16	11, 16

Pest Stage At Each Application					
	A	B	C	D	E
<b>Pest 1 Code, Type, Scale</b>	ECHCG, W, BBCH	ECHCG, W, BBCH	ECHCG, W, BBCH	ECHCG, W, BBCH	ECHCG, W, BBCH
<b>Stage Majority, Percent</b>	00, -	13, -	13, -	16, -	16, -
<b>Stage Minimum, Percent</b>	00, -	11, -	11, -	14, -	14, -
<b>Stage Maximum, Percent</b>	00, -	14, -	14, -	18, -	18, -
<b>Height Average</b>	0 IN	1 IN	1 IN	6 IN	6 IN
<b>Height Minimum, Maximum</b>		0.25, 2	0.25, 2	5, 10	5, 10
<b>Density Average</b>		10 FT2	10 FT2	8 FT2	8 FT2
<b>Density Minimum, Maximum</b>		5, 15	5, 15	5, 10	5, 10
<b>Pest 2 Code, Type, Scale</b>	AMBTR, W, BBCH	AMBTR, W, BBCH	AMBTR, W, BBCH	AMBTR, W, BBCH	AMBTR, W, BBCH
<b>Stage Majority, Percent</b>	00, -	14, -	14, -	19, -	19, -
<b>Stage Minimum, Percent</b>	00, -	12, -	12, -	16, -	16, -
<b>Stage Maximum, Percent</b>	00, -	14, -	14, -	19, -	19, -
<b>Height Average</b>	0 IN	2 IN	2 IN	7 IN	7 IN
<b>Height Minimum, Maximum</b>		0.5, 4	0.5, 4	6, 8	6, 8
<b>Density Average</b>		3 FT2	3 FT2	8 FT2	8 FT2
<b>Density Minimum, Maximum</b>		2, 5	2, 5	5, 10	5, 10
<b>Pest 3 Code, Type, Scale</b>	CHEAL, W, BBCH	CHEAL, W, BBCH	CHEAL, W, BBCH	CHEAL, W, BBCH	CHEAL, W, BBCH
<b>Stage Majority, Percent</b>	00, -	14, -	14, -	16, -	16, -
<b>Stage Minimum, Percent</b>	00, -	11, -	11, -	14, -	14, -
<b>Stage Maximum, Percent</b>	00, -	16, -	16, -	19, -	19, -
<b>Height Average</b>	0 IN	0.5 IN	0.5 IN	4 IN	4 IN
<b>Height Minimum, Maximum</b>		0.25, 1	0.25, 1	2, 6	2, 6
<b>Density Average</b>		2 FT2	2 FT2	2 FT2	2 FT2
<b>Density Minimum, Maximum</b>		0, 5	0, 5	0, 5	0, 5

Application Equipment					
	A	B	C	D	E
<b>Appl. Equipment</b>	CO2 BACKPACK	CO2 BACKPACK	CO2 BACKPACK	CO2 BACKPACK	CO2 BACKPACK
<b>Equipment Type</b>	BACSPR	BACCAI	BACCAI	BACCAI	BACCAI
<b>Operation Pressure</b>	17 PSI	17 PSI	17 PSI	30 PSI	30 PSI
<b>Nozzle Model</b>	XR	XR	XR	TT	TT
<b>Nozzle Type</b>	FLAFXR	FLAFXR	FLAFXR	TEEJTU	TEEJTU
<b>Nozzle TradeName</b>	TEEJET	TEEJET	TEEJET	TEEJET	TEEJET
<b>Nozzle Tip Size, Color</b>	11002, YELLOW	11002, YELLOW	11002, YELLOW	110015, GREEN	110015, GREEN
<b>Nozzle Spacing</b>	15 IN	15 IN	15 IN	15 IN	15 IN
<b>Nozzles/Row</b>	8	8	8	8	8
<b>Boom Length</b>	10 FT	10.0 FT	10.0 FT	10.0 FT	10.0 FT
<b>Boom Height</b>	17 IN	20.0 IN	20.0 IN	30.0 IN	30.0 IN
<b>Ground Speed</b>	3 MPH	3 MPH	3 MPH	3 MPH	3 MPH
<b>Carrier</b>	WATER	WATER	WATER	WATER	WATER
<b>Application Amount</b>	15 GAL/AC	15 GAL/AC	15 GAL/AC	15 GAL/AC	15 GAL/AC
<b>Mix Size</b>	1.8 L	1.8 L	1.8 L	1.8 L	1.8 L
<b>Propellant</b>	COMCO2	COMCO2	COMCO2	COMCO2	COMCO2
<b>Tank Mix (Y/N)</b>	Y, yes	Y, yes	Y, yes	Y, yes	Y, yes

**Protocol Equipment Comment:**  
**Small plot backpack equipment preferred.**

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Trial ID: 21S-TPAC-CORN-01 Location: TPAC Trial Year: 2021  
 Protocol ID: 21S-TPAC-CORN-01 Investigator (Creator): Dr. Bill Johnson  
 Project ID: Study Director: Joe Bruce  
 Sponsor Contact:

Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	4	5
1	Untreated Check	0.0			0.0	0.0	0.0	0.0	0.0
2	IMPACT CORE AATREX MSO ULTRA AMSOL	1.68 LB A/A 1 LB A/A 0.5 % V/V 2.5 LB/A	A B B B	B	7.5 a	3.0 a			95.5 bc
3	LIBERTY AMSOL	0.585 LB A/A 3 LB/A	C C	C	0.0 b	0.0 b			95.0 c
4	SINATE MSO ULTRA AMSOL	0.48 LB A/A 1 % V/V 3 LB/A	C C C	C	0.3 b	0.0 b			97.3 b
5	SINATE AATREX MSO ULTRA AMSOL	0.48 LB A/A 0.5 LB A/A 1 % V/V 3 LB/A	C C C C	C	1.0 b	0.0 b			100.0 a
6	SINATE DUAL II MAGNUM MSO ULTRA AMSOL	0.48 LB A/A 1.43 LB A/A 1 % V/V 3 LB/A	C C C C	C	2.0 b	0.3 b			97.3 b
7	SINATE DUAL II MAGNUM AATREX MSO ULTRA AMSOL	0.48 LB A/A 1.43 LB A/A 0.5 LB A/A 1 % V/V 3 LB/A	C C C C C	C	6.0 a	2.5 a			100.0 a
8	BICEP II MAGNUM SINATE MSO ULTRA AMSOL	2.2 LB A/A 0.48 LB A/A 1 % V/V 3 LB/A	A D D D	D			2.5 b	0.3 -	
9	BICEP II MAGNUM SINATE AATREX MSO ULTRA AMSOL	2.2 LB A/A 0.48 LB A/A 1 LB A/A 1 % V/V 3 LB/A	A D D D D	D			6.0 a	2.8 -	
10	BICEP II MAGNUM SINATE MSO ULTRA AMSOL	2.2 LB A/A 0.56 LB A/A 1 % V/V 3 LB/A	A D D D	D			5.0 a	0.0 -	

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).  
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.  
 Untreated treatment(s) 1 excluded from analysis.  
 Could not calculate LSD (% mean diff) for columns 6,9,12,15,16 because error mean square = 0.  
 ^Calculated from residual.

				1	2	3	4	5
Pest Type								W, Weed
Pest Code								AMBTR
Pest Scientific Name								Ambrosia trifida
Pest Name								Giant ragweed
Crop Type, Code	C, ZEAMX	C, ZEAMX	C, ZEAMX	C, ZEAMX	C, ZEAMX	C, ZEAMX	C, ZEAMX	C, ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	Corn	Corn
Description	CROP INJURY	CROP INJURY	CROP INJURY	CROP INJURY	CROP INJURY	CROP INJURY	CROP INJURY	WEED CONTROL
Rating Date	6/8/2021	6/15/2021	6/19/2021	6/25/2021	6/15/2021	6/15/2021	6/15/2021	6/15/2021
SE Group No.	1	1	1	1	1	1	1	2
SE Name	CROP INJURY	CROP INJURY	CROP INJURY	CROP INJURY	CROP INJURY	CROP INJURY	CROP INJURY	WEED CONTROL
Part Rated	PLANT, C	PLANT, C	PLANT, C	PLANT, C	PLANT, C	PLANT, C	PLANT, C	PLANT, P
Rating Type	PHYGEN	PHYGEN	PHYGEN	PHYGEN	PHYGEN	PHYGEN	PHYGEN	CONTRO
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 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	2 ROW	2 ROW
Collection Basis	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1	1	1	1
Data Entry Date	9/24/2021	9/24/2021	9/24/2021	9/24/2021	9/24/2021	9/24/2021	9/24/2021	9/24/2021
Rating Timing	7 DA B/C	14 DA B/C	7 DA D/E	14 D/E	7 DA B/C	14 DA B/C	14 DA B/C	14 DA B/C
Days After First/Last Applic.	24, 7	31, 3	35, 7	41, 13	24, 7	31, 3	35, 7	41, 13
Trt-Eval Interval	24 DA-A	31 DA-A	35 DA-A	41 DA-A	24 DA-A	31 DA-A	35 DA-A	41 DA-A
Plant-Eval Interval	24 DP-1	31 DP-1	35 DP-1	41 DP-1	24 DP-1	31 DP-1	35 DP-1	41 DP-1
Days After Emergence	16 DE-1	23 DE-1	27 DE-1	33 DE-1	16 DE-1	23 DE-1	27 DE-1	33 DE-1
Trt Treatment	Rate	Appl	1	2	3	4	5	
No. Name	Rate Unit	Code						
11 BICEP II MAGNUM	2.2 LB AI/A	A			6.3 a	1.3 -		
SINATE	0.56 LB AI/A	D						
AATREX	1 LB AI/A	D						
MSO ULTRA	1 % V/V	D						
AMSOL	3 LB/A	D						
12 BICEP II MAGNUM	2.2 LB AI/A	A			5.0 a	0.0 -		
IMPACT CORE	1.34 LB AI/A	D						
ROUNDUP POWERMAX	1.13 LB AE/A	D						
AATREX	1 LB AI/A	D						
ACTIVATOR 90	0.25 % V/V	D						
AMSOL	2.5 LB/A	D						
13 BICEP II MAGNUM	2.2 LB AI/A	A			2.0 b	0.0 -		
IMPACT	0.0219 LB AI/A	D						
AATREX	0.5 LB AI/A	D						
MSO ULTRA	1 % V/V	D						
AMSOL	2.5 LB/A	D						
14 BICEP II MAGNUM	2.2 LB AI/A	A			6.3 a	1.3 -		
HALEX GT	1.98 LB AI/A	D						
AATREX	0.5 LB AI/A	D						
ACTIVATOR 90	0.25 % V/V	D						
AMSOL	2.5 LB/A	D						
15 BICEP II MAGNUM	2.2 LB AI/A	A			0.8 b	0.0 -		
IMPACT	0.044 LB AI/A	E						
MSO ULTRA	1 % V/V	E						
AMSOL	2.5 LB/A	E						
LSD P=.05			2.15	1.60	2.06	2.20	2.04	
Standard Deviation			1.43	1.06	1.40	1.49	1.35	
CV			51.18	110.95	33.18	217.31	1.39	
Grand Mean			2.79	0.96	4.22	0.69	97.50	
Levene's F^			3.159	10.164	0.673	0.58	1.44	
Levene's Prob(F)			0.032*	0.00*	0.693	0.765	0.258	
Rank X2			.	.	.	.	.	
P(Rank X2)			.	.	.	.	.	
Skewness^			-0.1839	-0.1779	1.2618*	0.9854*	0.2751	
Kurtosis^			-0.3653	1.0322	2.5529*	3.1421*	3.0208*	
Replicate F			1.816	0.823	1.377	0.616	0.182	
Replicate Prob(F)			0.1874	0.5013	0.2773	0.6123	0.9071	
Treatment F			19.808	6.936	9.492	1.784	9.982	
Treatment Prob(F)			0.0001	0.0015	0.0001	0.1438	0.0002	

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).  
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Untreated treatment(s) 1 excluded from analysis.  
Could not calculate LSD (% mean diff) for columns 6,9,12,15,16 because error mean square = 0.  
^Calculated from residual.

Pest Type		W, Weed	W, Weed	W, Weed	W, Weed		
Pest Code		CHEAL	ECHCG	AMBTR	CHEAL		
Pest Scientific Name		Chenopodium alb>	Echinochloa cru>	Ambrosia trifida	Chenopodium alb>		
Pest Name		common lambsqua>	common barnyard>	Giant ragweed	common lambsqua>		
Crop Type, Code		C, ZEAMX	C, ZEAMX	C, ZEAMX	C, ZEAMX		
BBCH Scale		BCOR	BCOR	BCOR	BCOR		
Crop Scientific Name		Zea mays	Zea mays	Zea mays	Zea mays		
Crop Name		Corn	Corn	Corn	Corn		
Description		WEED CONTROL	WEED CONTROL	WEED CONTROL	WEED CONTROL		
Rating Date		6/15/2021	6/15/2021	6/25/2021	6/25/2021		
SE Group No.		2	2	3	3		
SE Name		WEED CONTROL	WEED CONTROL	WEED CONTROL	WEED CONTROL		
Part Rated		PLANT, P	PLANT, P	PLANT, P	PLANT, P		
Rating Type		CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit/Min/Max		%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100		
Sample Size		2 ROW	2 ROW	2 ROW	2 ROW		
Collection Basis		1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Number of Subsamples		1	1	1	1		
Data Entry Date		9/24/2021	9/24/2021	9/24/2021	9/24/2021		
Rating Timing		14 DA B/C	14 DA B/C	14 DA D/E	14 DA D/E		
Days After First/Last Applic.		31, 3	31, 3	41, 13	41, 13		
Trt-Eval Interval		31 DA-A	31 DA-A	41 DA-A	41 DA-A		
Plant-Eval Interval		31 DP-1	31 DP-1	41 DP-1	41 DP-1		
Days After Emergence		23 DE-1	23 DE-1	33 DE-1	33 DE-1		
Trt Treatment No. Name	Rate	Unit	Appl Code	6	7	8	9
1 Untreated Check				0.0	0.0	0.0	0.0
2 IMPACT CORE	1.68 LB AI/A	B		100.0 -	95.0 a		
AATREX	1 LB AI/A	B					
MSO ULTRA	0.5 % V/V	B					
AMSOL	2.5 LB/A	B					
3 LIBERTY	0.585 LB AI/A	C		100.0 -	92.0 b		
AMSOL	3 LB/A	C					
4 SINATE	0.48 LB AI/A	C		100.0 -	95.0 a		
MSO ULTRA	1 % V/V	C					
AMSOL	3 LB/A	C					
5 SINATE	0.48 LB AI/A	C		100.0 -	97.3 a		
AATREX	0.5 LB AI/A	C					
MSO ULTRA	1 % V/V	C					
AMSOL	3 LB/A	C					
6 SINATE	0.48 LB AI/A	C		100.0 -	95.0 a		
DUAL II MAGNUM	1.43 LB AI/A	C					
MSO ULTRA	1 % V/V	C					
AMSOL	3 LB/A	C					
7 SINATE	0.48 LB AI/A	C		100.0 -	97.5 a		
DUAL II MAGNUM	1.43 LB AI/A	C					
AATREX	0.5 LB AI/A	C					
MSO ULTRA	1 % V/V	C					
AMSOL	3 LB/A	C					
8 BICEP II MAGNUM	2.2 LB AI/A	A				90.0 c	100.0 -
SINATE	0.48 LB AI/A	D					
MSO ULTRA	1 % V/V	D					
AMSOL	3 LB/A	D					
9 BICEP II MAGNUM	2.2 LB AI/A	A				92.5 bc	100.0 -
SINATE	0.48 LB AI/A	D					
AATREX	1 LB AI/A	D					
MSO ULTRA	1 % V/V	D					
AMSOL	3 LB/A	D					
10 BICEP II MAGNUM	2.2 LB AI/A	A				99.5 a	100.0 -
SINATE	0.56 LB AI/A	D					
MSO ULTRA	1 % V/V	D					
AMSOL	3 LB/A	D					

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).  
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.  
Untreated treatment(s) 1 excluded from analysis.  
Could not calculate LSD (% mean diff) for columns 6,9,12,15,16 because error mean square = 0.  
^Calculated from residual.



Pest Type	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code	CHEAL	ECHCG	AMBTR	CHEAL
Pest Scientific Name	Chenopodium alb>	Echinochloa cru>	Ambrosia trifida	Chenopodium alb>
Pest Name	common lambsqua>	common barnyard>	Giant ragweed	common lambsqua>
Crop Type, Code	C, ZEAMX	C, ZEAMX	C, ZEAMX	C, ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn
Description	WEED CONTROL	WEED CONTROL	WEED CONTROL	WEED CONTROL
Rating Date	6/15/2021	6/15/2021	6/25/2021	6/25/2021
SE Group No.	2	2	3	3
SE Name	WEED CONTROL	WEED CONTROL	WEED CONTROL	WEED CONTROL
Part Rated	PLANT, P	PLANT, P	PLANT, P	PLANT, P
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Sample Size	2 ROW	2 ROW	2 ROW	2 ROW
Collection Basis	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1
Data Entry Date	9/24/2021	9/24/2021	9/24/2021	9/24/2021
Rating Timing	14 DA B/C	14 DA B/C	14 DA D/E	14 DA D/E
Days After First/Last Applic.	31, 3	31, 3	41, 13	41, 13
Trt-Eval Interval	31 DA-A	31 DA-A	41 DA-A	41 DA-A
Plant-Eval Interval	31 DP-1	31 DP-1	41 DP-1	41 DP-1
Days After Emergence	23 DE-1	23 DE-1	33 DE-1	33 DE-1
Trt Treatment	6	7	8	9
No. Name				
Rate				
Unit				
Appl Code				
11 BICEP II MAGNUM	2.2 LB AI/A		100.0 a	100.0 -
SINATE	0.56 LB AI/A			
AATREX	1 LB AI/A			
MSO ULTRA	1 % V/V			
AMSOL	3 LB/A			
12 BICEP II MAGNUM	2.2 LB AI/A		98.0 a	100.0 -
IMPACT CORE	1.34 LB AI/A			
ROUNDUP POWERMAX	1.13 LB AE/A			
AATREX	1 LB AI/A			
ACTIVATOR 90	0.25 % V/V			
AMSOL	2.5 LB/A			
13 BICEP II MAGNUM	2.2 LB AI/A		93.3 b	100.0 -
IMPACT	0.0219 LB AI/A			
AATREX	0.5 LB AI/A			
MSO ULTRA	1 % V/V			
AMSOL	2.5 LB/A			
14 BICEP II MAGNUM	2.2 LB AI/A		93.8 b	100.0 -
HALEX GT	1.98 LB AI/A			
AATREX	0.5 LB AI/A			
ACTIVATOR 90	0.25 % V/V			
AMSOL	2.5 LB/A			
15 BICEP II MAGNUM	2.2 LB AI/A		86.3 d	100.0 -
IMPACT	0.044 LB AI/A			
MSO ULTRA	1 % V/V			
AMSOL	2.5 LB/A			
LSD P=.05	.	2.50	2.98	.
Standard Deviation	0.00	1.66	2.03	0.00
CV	0.0	1.74	2.15	0.0
Grand Mean	100.00	95.29	94.16	100.00
Levene's F^	.	2.578	0.712	.
Levene's Prob(F)	.	0.063	0.663	.
Rank X2	.	.	.	.
P(Rank X2)	.	.	.	.
Skewness^	.	0.0567	-0.5183	.
Kurtosis^	.	-0.8359	0.204	.
Replicate F	0.000	1.751	0.983	0.000
Replicate Prob(F)	1.0000	0.1997	0.4199	1.0000
Treatment F	0.000	5.755	22.423	0.000
Treatment Prob(F)	1.0000	0.0037	0.0001	1.0000

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Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.  
Untreated treatment(s) 1 excluded from analysis.  
Could not calculate LSD (% mean diff) for columns 6,9,12,15,16 because error mean square = 0.  
^Calculated from residual.

Trt No.	Treatment Name	Rate	Unit	Appl Code	10	11	12	13
1	Untreated Check				0.0	0.0	0.0	0.0
2	IMPACT CORE AATREX MSO ULTRA AMSOL	1.68 1 0.5 2.5	LB AI/A LB AI/A % V/V LB/A	B B B B		96.8 b	100.0 -	100.0 a
3	LIBERTY AMSOL	0.585 3	LB AI/A LB/A	C C		94.3 c	100.0 -	98.5 b
4	SINATE MSO ULTRA AMSOL	0.48 1 3	LB AI/A % V/V LB/A	C C C		96.0 bc	100.0 -	100.0 a
5	SINATE AATREX MSO ULTRA AMSOL	0.48 0.5 1 3	LB AI/A LB AI/A % V/V LB/A	C C C C		97.3 b	100.0 -	100.0 a
6	SINATE DUAL II MAGNUM MSO ULTRA AMSOL	0.48 1.43 1 3	LB AI/A LB AI/A % V/V LB/A	C C C C		99.3 a	100.0 -	100.0 a
7	SINATE DUAL II MAGNUM AATREX MSO ULTRA AMSOL	0.48 1.43 0.5 1 3	LB AI/A LB AI/A LB AI/A % V/V LB/A	C C C C C		100.0 a	100.0 -	100.0 a
8	BICEP II MAGNUM SINATE MSO ULTRA AMSOL	2.2 0.48 1 3	LB AI/A LB AI/A % V/V LB/A	A D D D	95.0 d	100.0 a	100.0 -	100.0 a
9	BICEP II MAGNUM SINATE AATREX MSO ULTRA AMSOL	2.2 0.48 1 1 3	LB AI/A LB AI/A LB AI/A % V/V LB/A	A D D D D	97.3 bcd	100.0 a	100.0 -	100.0 a
10	BICEP II MAGNUM SINATE MSO ULTRA AMSOL	2.2 0.56 1 3	LB AI/A LB AI/A % V/V LB/A	A D D D	97.8 abc	100.0 a	100.0 -	100.0 a

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Untreated treatment(s) 1 excluded from analysis.  
Could not calculate LSD (% mean diff) for columns 6,9,12,15,16 because error mean square = 0.  
^Calculated from residual.

Pest Type	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code	ECHCG	AMBTR	CHEAL	ECHCG
Pest Scientific Name	Echinochloa cru>	Ambrosia trifida	Chenopodium alb>	Echinochloa cru>
Pest Name	common barnyard>	Giant ragweed	common lambsqua>	common barnyard>
Crop Type, Code	C, ZEAMX	C, ZEAMX	C, ZEAMX	C, ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn
Description	WEED CONTROL	WEED CONTROL	WEED CONTROL	WEED CONTROL
Rating Date	6/25/2021	6/29/2021	6/29/2021	6/29/2021
SE Group No.	3	4	4	4
SE Name	WEED CONTROL	WEED CONTROL	WEED CONTROL	WEED CONTROL
Part Rated	PLANT, P	PLANT, P	PLANT, P	PLANT, P
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100
Sample Size	2 ROW	2 ROW	2 ROW	2 ROW
Collection Basis	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1
Data Entry Date	9/24/2021	9/24/2021	9/24/2021	9/24/2021
Rating Timing	14 DA D/E	28 DA C	28 DAC	28 DA C
Days After First/Last Applic.	41, 13	45, 17	45, 17	45, 17
Trt-Eval Interval	41 DA-A	45 DA-A	45 DA-A	45 DA-A
Plant-Eval Interval	41 DP-1	45 DP-1	45 DP-1	45 DP-1
Days After Emergence	33 DE-1	37 DE-1	37 DE-1	37 DE-1
Trt Treatment	10	11	12	13
No. Name	Rate Unit Appl Code			
11 BICEP II MAGNUM	2.2 LB AI/A A	100.0 a	100.0 a	100.0 a
SINATE	0.56 LB AI/A D			
AATREX	1 LB AI/A D			
MSO ULTRA	1 % V/V D			
AMSOL	3 LB/A D			
12 BICEP II MAGNUM	2.2 LB AI/A A	100.0 a	100.0 a	100.0 a
IMPACT CORE	1.34 LB AI/A D			
ROUNDUP POWERMAX	1.13 LB AE/A D			
AATREX	1 LB AI/A D			
ACTIVATOR 90	0.25 % V/V D			
AMSOL	2.5 LB/A D			
13 BICEP II MAGNUM	2.2 LB AI/A A	95.5 cd	100.0 a	100.0 a
IMPACT	0.0219 LB AI/A D			
AATREX	0.5 LB AI/A D			
MSO ULTRA	1 % V/V D			
AMSOL	2.5 LB/A D			
14 BICEP II MAGNUM	2.2 LB AI/A A	99.3 ab	100.0 a	100.0 a
HALEX GT	1.98 LB AI/A D			
AATREX	0.5 LB AI/A D			
ACTIVATOR 90	0.25 % V/V D			
AMSOL	2.5 LB/A D			
15 BICEP II MAGNUM	2.2 LB AI/A A	90.0 e	100.0 a	100.0 a
IMPACT	0.044 LB AI/A E			
MSO ULTRA	1 % V/V E			
AMSOL	2.5 LB/A E			
LSD P=.05	2.48	1.79	.	0.66
Standard Deviation	1.69	1.25	0.00	0.46
CV	1.74	1.27	0.0	0.46
Grand Mean	96.84	98.82	100.00	99.89
Levene's F^	1.52	1.658	.	1380600741919250000000000000.00
Levene's Prob(F)	0.208	0.107	.	0.00*
Rank X2	.	.	.	.
P(Rank X2)	.	.	.	.
Skewness^	-0.3028	-0.63	.	0.0
Kurtosis^	3.1612*	4.891*	.	10.0581*
Replicate F	2.299	1.229	0.000	1.000
Replicate Prob(F)	0.1068	0.3122	1.0000	0.4031
Treatment F	15.839	9.469	0.000	3.000
Treatment Prob(F)	0.0001	0.0001	1.0000	0.0040

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).  
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.  
Untreated treatment(s) 1 excluded from analysis.  
Could not calculate LSD (% mean diff) for columns 6,9,12,15,16 because error mean square = 0.  
^Calculated from residual.

Pest Type	W, Weed	W, Weed	W, Weed
Pest Code	AMBTR	CHEAL	ECHCG
Pest Scientific Name	Ambrosia trifida	Chenopodium alb>	Echinochloa cru>
Pest Name	Giant ragweed	common lambsqua>	common barnyard>
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
Description	WEED CONTROL	WEED CONTROL	WEED CONTROL
Rating Date	7/13/2021	7/13/2021	7/13/2021
SE Group No.	5	5	5
SE Name	WEED CONTROL	WEED CONTROL	WEED CONTROL
Part Rated	PLANT, P	PLANT, P	PLANT, P
Rating Type	CONTRO	CONTRO	CONTRO
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	9/24/2021	9/24/2021	9/24/2021
Rating Timing	42 DA C	42 DA C	42 DA C
Days After First/Last Applic.	59, 31	59, 31	59, 31
Trt-Eval Interval	59 DA-A	59 DA-A	59 DA-A
Plant-Eval Interval	59 DP-1	59 DP-1	59 DP-1
Days After Emergence	51 DE-1	51 DE-1	51 DE-1
Trt Treatment	14	15	16
No. Name	Rate Unit Appl Code		
1 Untreated Check		0.0	0.0
2 IMPACT CORE	1.68 LB AI/A B	90.0 de	100.0 -
AATREX	1 LB AI/A B		
MSO ULTRA	0.5 % V/V B		
AMSOL	2.5 LB/A B		
3 LIBERTY	0.585 LB AI/A C	87.5 e	100.0 -
AMSOL	3 LB/A C		
4 SINATE	0.48 LB AI/A C	92.5 cd	100.0 -
MSO ULTRA	1 % V/V C		
AMSOL	3 LB/A C		
5 SINATE	0.48 LB AI/A C	95.0 bc	100.0 -
AATREX	0.5 LB AI/A C		
MSO ULTRA	1 % V/V C		
AMSOL	3 LB/A C		
6 SINATE	0.48 LB AI/A C	93.8 c	100.0 -
DUAL II MAGNUM	1.43 LB AI/A C		
MSO ULTRA	1 % V/V C		
AMSOL	3 LB/A C		
7 SINATE	0.48 LB AI/A C	97.8 ab	100.0 -
DUAL II MAGNUM	1.43 LB AI/A C		
AATREX	0.5 LB AI/A C		
MSO ULTRA	1 % V/V C		
AMSOL	3 LB/A C		
8 BICEP II MAGNUM	2.2 LB AI/A A	100.0 a	100.0 -
SINATE	0.48 LB AI/A D		
MSO ULTRA	1 % V/V D		
AMSOL	3 LB/A D		
9 BICEP II MAGNUM	2.2 LB AI/A A	100.0 a	100.0 -
SINATE	0.48 LB AI/A D		
AATREX	1 LB AI/A D		
MSO ULTRA	1 % V/V D		
AMSOL	3 LB/A D		
10 BICEP II MAGNUM	2.2 LB AI/A A	100.0 a	100.0 -
SINATE	0.56 LB AI/A D		
MSO ULTRA	1 % V/V D		
AMSOL	3 LB/A D		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).  
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.  
Untreated treatment(s) 1 excluded from analysis.  
Could not calculate LSD (% mean diff) for columns 6,9,12,15,16 because error mean square = 0.  
^Calculated from residual.

Pest Type	W, Weed	W, Weed	W, Weed
Pest Code	AMBTR	CHEAL	ECHCG
Pest Scientific Name	Ambrosia trifida	Chenopodium alb>	Echinochloa cru>
Pest Name	Giant ragweed	common lambsqua>	common barnyard>
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
Description	WEED CONTROL	WEED CONTROL	WEED CONTROL
Rating Date	7/13/2021	7/13/2021	7/13/2021
SE Group No.	5	5	5
SE Name	WEED CONTROL	WEED CONTROL	WEED CONTROL
Part Rated	PLANT, P	PLANT, P	PLANT, P
Rating Type	CONTRO	CONTRO	CONTRO
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	9/24/2021	9/24/2021	9/24/2021
Rating Timing	42 DA C	42 DA C	42 DA C
Days After First/Last Applic.	59, 31	59, 31	59, 31
Trt-Eval Interval	59 DA-A	59 DA-A	59 DA-A
Plant-Eval Interval	59 DP-1	59 DP-1	59 DP-1
Days After Emergence	51 DE-1	51 DE-1	51 DE-1
Trt Treatment	14	15	16
No. Name	Rate Unit Appl Code		
11 BICEP II MAGNUM	2.2 LB AI/A A		
SINATE	0.56 LB AI/A D		
AATREX	1 LB AI/A D		
MSO ULTRA	1 % V/V D		
AMSOL	3 LB/A D		
12 BICEP II MAGNUM	2.2 LB AI/A A		
IMPACT CORE	1.34 LB AI/A D		
ROUNDUP POWERMAX	1.13 LB AE/A D		
AATREX	1 LB AI/A D		
ACTIVATOR 90	0.25 % V/V D		
AMSOL	2.5 LB/A D		
13 BICEP II MAGNUM	2.2 LB AI/A A		
IMPACT	0.0219 LB AI/A D		
AATREX	0.5 LB AI/A D		
MSO ULTRA	1 % V/V D		
AMSOL	2.5 LB/A D		
14 BICEP II MAGNUM	2.2 LB AI/A A		
HALEX GT	1.98 LB AI/A D		
AATREX	0.5 LB AI/A D		
ACTIVATOR 90	0.25 % V/V D		
AMSOL	2.5 LB/A D		
15 BICEP II MAGNUM	2.2 LB AI/A A		
IMPACT	0.044 LB AI/A E		
MSO ULTRA	1 % V/V E		
AMSOL	2.5 LB/A E		
LSD P=.05	2.92	.	.
Standard Deviation	2.04	0.00	0.00
CV	2.1	0.0	0.0
Grand Mean	96.89	100.00	100.00
Levene's F^	1.203	.	.
Levene's Prob(F)	0.311	.	.
Rank X2	.	.	.
P(Rank X2)	.	.	.
Skewness^	-1.24*	.	.
Kurtosis^	5.0253*	.	.
Replicate F	1.725	0.000	0.000
Replicate Prob(F)	0.1777	1.0000	1.0000
Treatment F	18.257	0.000	0.000
Treatment Prob(F)	0.0001	1.0000	1.0000

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).  
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.  
Untreated treatment(s) 1 excluded from analysis.  
Could not calculate LSD (% mean diff) for columns 6,9,12,15,16 because error mean square = 0.  
^Calculated from residual.

# Purdue Weed Science

## AMVAC corn herbicide portfolio showcase for US university locations - medium to fine soils

Trial ID: 21S-TPAC-CORN-01      Location: TPAC      Trial Year: 2021  
 Protocol ID: 21S-TPAC-CORN-01      Investigator (Creator): Dr. Bill Johnson  
 Project ID:      Study Director: Joe Bruce  
    Sponsor Contact:

Pest Type

W, Weed = Weed or volunteer crop

Pest Code

AMBTR, Ambrosia trifida, Giant ragweed = US

CHEAL, Chenopodium album, common lambsquarters = US

ECHCG, Echinochloa crus-galli, common barnyardgrass = 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

PHYGEN = phytotoxicity - general / injury

CONTRO = control / burndown or knockdown

Rating Unit/Min/Max

%, 0, 100 = percent

ROW = row

PLOT = total plot

Plant-Eval Interval

24 DP-1 = 1 ZEAMX 5/15/2021

31 DP-1 = 1 ZEAMX 5/15/2021

35 DP-1 = 1 ZEAMX 5/15/2021

41 DP-1 = 1 ZEAMX 5/15/2021

45 DP-1 = 1 ZEAMX 5/15/2021

59 DP-1 = 1 ZEAMX 5/15/2021