

Purdue Weed Science

Albaugh Corn Herbicide Programs

Trial ID: 23-TPAC-Corn-11
 Protocol ID: 23-TPAC-Corn-11 Location: Throckmorton-PAC Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Dr. Bill Johnson Sponsor Contact: Jaime Yanes
 Investigator: Dr. Bill Johnson

General Trial Information

Study Director: Dr. Bill Johnson **Title:** Professor
Investigator: Dr. Bill Johnson **Title:** Professor

Discipline: H herbicide
Status: E established

ARM Trial Created On: Apr-18-2023
Initiation Date: May-17-2023 **Planned Completion Date:** Oct-15-2023

Trial Location

City: Lafayette **Country:** USA
State/Prov.: Indiana **County:** Tippecanoe
Postal Code: 47907

Latitude of LL Corner °: 40.2918 N
Longitude of LL Corner °: -86.90993 W

Regulations

Conducted Under GLP: No
Conducted Under GEP: No

Materials and Methods

Contacts

Role: STYDIR study director
Study Director: Dr. Bill Johnson **Title:** Professor
Organization: Purdue University
Address 1: 915 W. State Street
Country: USA United States **E-mail:** wgj@purdue.edu
City: West Lafayette **State/Prov:** IN
Role: INVEST investigator
Investigator: Dr. Bill Johnson **Title:** Professor
Organization: Purdue University
Address 1: 915 W. State Street
Country: USA United States **E-mail:** wgj@purdue.edu
City: West Lafayette **State/Prov:** IN
Role: SPONSR sponsor
Sponsor: Jaime Yanes
Organization: Albaugh
Role: COOPER cooperator
Cooperator: Jay Young **Title:** Superintendent
Organization: Purdue University
Address 1: 8343 US 231 S **Phone No.:** 765-538-3422
Country: USA United States **E-mail:** jayyoung@purdue.edu
City: Lafayette **State/Prov:** IN

Crop Description

Crop 1: C ZEAMX Zea mays Corn
Entry Date: Jun-13-2023 **Stage Scale:** BBCH
Variety: DKC 50-87 RIB
Attributes: Glyphosate-R and Glufosinate-R
Planting Date: May-17-2023 **Planting Rate:** 35000 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: 80 F **Soil Moisture:** NORMAL normal, adequate
Emergence Date: May-26-2023

Pest Description

Pest 1 Type: W **Code:** AMBTR Ambrosia trifida **Entry Date:** Jun-19-2023
Common Name: Giant ragweed **Stage Scale:** BBCH
Attributes: ALS-R
Pest 2 Type: W **Code:** ECHCG Echinochloa crus-galli **Entry Date:** Jun-19-2023
Common Name: common barnyardgrass **Stage Scale:** BBCH

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Site and Design

Treated Plot Width: 10 FT
 Treated Plot Length: 30 FT
 Treated Plot Area: 300.0 FT²
 Replications: 4 Treatments: 9 Plots: 36

Site Type: FIELD field
 Experimental Unit: 1 PLOT plot
 Tillage Type: CONTIL conventional-till
 Study Design: RACOBL Randomized Complete Block (RCB)

Trial Initiation Comments:

180 lbs of N applied as 28% UAN on 5/5/23 then tilled in.
 A Blanket of Gramoxone was sprayed on 05/16/2023 prior to planting.
 Trial area was weed-free at planting.

Field Prep./Maintenance:

180 lbs of N applied as 28% UAN on 5/5/23.

Soil Description

Description Name: TPAC - Field 4BW
 % Sand: 15 % OM: 5 Texture: SIC silty clay
 % Silt: 44 Soil Name: Drummer
 % Clay: 41 Fert. Level: G good
 pH: 7 CEC: 19.3

Weather Conditions

Overall Moisture Conditions: DRY dry Irrigation Type: RAIN rain
 Weather Station Name: TPAC MESONET PURDUE Distance: 0.5 MI

No.	Date	Moisture Total	Unit	Min Temp	Max Temp	Avg Temp	Temp Unit	Max Wind	Avg Wind	Unit	Avg Soil Temp	Unit
1.	May-15-2023	0.04	IN	55	76	63	F	15	3.6	MPH	64.2	F
2.	May-16-2023	0.01	IN	56	74	63	F	16.8	3.1	MPH	64.2	F
3.	May-17-2023	0	IN	51	73	61	F	17.9	5.4	MPH	63.9	F
4.	May-18-2023	0	IN	45	77	62	F	15	2.9	MPH	63.1	F
5.	May-19-2023	0.59	IN	56	83	66	F	30.4	7.6	MPH	63.3	F
6.	May-20-2023	0	IN	49	67	58	F	19	3.8	MPH	63.7	F
7.	May-21-2023	0	IN	46	81	64	F	14.3	1.1	MPH	63.9	F
8.	May-22-2023	0	IN	52	84	70	F	11.9	0.9	MPH	65.7	F
9.	May-23-2023	0	IN	56	86	72	F	15.4	1.3	MPH	67.1	F
10.	May-24-2023	0	IN	55	86	73	F	22.6	5.4	MPH	67.6	F
11.	May-25-2023	0	IN	49	72	60	F	23.3	9.2	MPH	65.1	F
12.	May-26-2023	0	IN	46	77	62	F	22.6	4.5	MPH	64.4	F
13.	May-27-2023	0	IN	48	78	66	F	7.2	0	MPH	64.2	F
14.	May-28-2023	0	IN	57	83	71	F	4.3	0	MPH	66.4	F
15.	May-29-2023	0	IN	58	89	75	F	6.5	0	MPH	69.1	F
16.	May-30-2023	0	IN	61	91	77	F	15.4	0.7	MPH	69.8	F
17.	May-31-2023	0	IN	66	91	78	F	20.4	3.6	MPH	71.6	F
18.	Jun-1-2023	0	IN	64	92	79	F	17.2	2.5	MPH	73.6	F
19.	Jun-2-2023	0	IN	62	92	79	F	13.2	0.7	MPH	74.5	F
20.	Jun-3-2023	0	IN	65	94	80	F	16.1	1.8	MPH	75.4	F
21.	Jun-4-2023	0	IN	64	84	74	F	17.9	6.5	MPH	75.4	F
22.	Jun-5-2023	0	IN	55	83	70	F	13.2	0	MPH	71.8	F
23.	Jun-6-2023	0	IN	54	88	71	F	7.2	0	MPH	71.6	F
24.	Jun-7-2023	0	IN	54	80	69	F	16.1	1.3	MPH	73.4	F
25.	Jun-8-2023	0	IN	47	80	65	F	1.8	0	MPH	72	F
26.	Jun-9-2023	0	IN	47	82	67	F	7.2	0	MPH	72.1	F
27.	Jun-10-2023	0	IN	55	87	73	F	13.2	0	MPH	74.1	F
28.	Jun-11-2023	0.38	IN	55	69	64	F	22.6	4	MPH	70.3	F
29.	Jun-12-2023	0	IN	54	69	63	F	25.1	5.6	MPH	70.5	F
30.	Jun-13-2023	0.05	IN	56	71	62	F	18.8	7.8	MPH	65.3	F
31.	Jun-14-2023	0	IN	59	79	68	F	14.1	2.9	MPH	68.9	F

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32.	Jun-15-2023	0	IN	58	87	71	F	19.9	7.2	MPH	70.9	F
33.	Jun-16-2023	0	IN	51	76	63	F	14.1	4.3	MPH	69.3	F
34.	Jun-17-2023	0	IN	51	84	69	F	12.1	2.5	MPH	70.9	F
35.	Jun-18-2023	0	IN	58	86	73	F	18.1	4.5	MPH	73.4	F
36.	Jun-19-2023	0	IN	69	87	80	F	22.4	6.9	MPH	76.8	F
37.	Jun-20-2023	0	IN	65	89	76	F	27.1	8.9	MPH	76.8	F
38.	Jun-21-2023	0	IN	65	89	77	F	23.9	7.4	MPH	78.1	F
39.	Jun-22-2023	0	IN	64	84	73	F	21.5	5.4	MPH	77.9	F
40.	Jun-23-2023	0	IN	67	86	74	F	11.2	2.5	MPH	77.2	F
41.	Jun-24-2023	0	IN	61	92	78	F	15	3.6	MPH	77.7	F
42.	Jun-25-2023	0.93	IN	68	89	78	F	36	10.1	MPH	76.8	F
43.	Jun-26-2023	0	IN	66	77	71	F	26.6	8.9	MPH	72.9	F
44.	Jun-27-2023	0	IN	60	77	67	F	14.5	4	MPH	70.9	F
45.	Jun-28-2023	0	IN	54	83	69	F	17	2.5	MPH	70.9	F
46.	Jun-29-2023	0.38	IN	65	85	71	F	44.7	7.4	MPH	71.8	F
47.	Jun-30-2023	0	IN	63	86	75	F	21	3.6	MPH	73.4	F
48.	Jul-1-2023	0.45	IN	69	88	76	F	31.3	5.1	MPH	76.1	F
49.	Jul-2-2023	0.65	IN	66	83	74	F	28.6	6.9	MPH	75.7	F
50.	Jul-3-2023	0	IN	66	88	75	F	14.5	4.7	MPH	76.3	F
51.	Jul-4-2023	0	IN	65	91	78	F	14.1	2.9	MPH	78.1	F
52.	Jul-5-2023	0.01	IN	68	90	79	F	25.1	5.1	MPH	79.3	F
53.	Jul-6-2023	0.01	IN	68	84	75	F	16.6	3.8	MPH	78.6	F
54.	Jul-7-2023	0	IN	61	84	73	F	11.4	2.7	MPH	77.7	F
55.	Jul-8-2023	0.75	IN	62	76	69	F	17.7	3.1	MPH	75.6	F
56.	Jul-9-2023	0	IN	57	82	69	F	11.6	2.2	MPH	74.5	F
57.	Jul-10-2023	0	IN	59	82	72	F	12.5	4	MPH	75.4	F
58.	Jul-11-2023	0	IN	63	85	74	F	21.3	7.2	MPH	75.6	F
59.	Jul-12-2023	0	IN	69	86	77	F	23	6.3	MPH	76.3	F
60.	Jul-13-2023	0	IN	64	80	71	F	10.1	2.9	MPH	75.4	F
61.	Jul-14-2023	0	IN	61	88	76	F	14.8	4.5	MPH	76.1	F
62.	Jul-15-2023	1.59	IN	67	83	74	F	20.8	4	MPH	75.9	F
63.	Jul-16-2023	0	IN	63	83	73	F	17.4	4.9	MPH	75.4	F
64.	Jul-17-2023	0.14	IN	65	81	72	F	12.8	3.6	MPH	74.7	F
65.	Jul-18-2023	0	IN	63	82	72	F	9.6	2.2	MPH	74.8	F
66.	Jul-19-2023	0	IN	57	86	73	F	9.2	1.8	MPH	74.7	F
67.	Jul-20-2023	0	IN	67	88	76	F	22.1	5.4	MPH	76.5	F
68.	Jul-21-2023	0	IN	62	81	71	F	11.9	2.5	MPH	75	F
69.	Jul-22-2023	0	IN	58	83	71	F	9.2	1.8	MPH	73.9	F
70.	Jul-23-2023	0	IN	59	86	72	F	14.1	3.4	MPH	73.6	F
71.	Jul-24-2023	0	IN	64	88	76	F	9.6	2.2	MPH	75.2	F
72.	Jul-25-2023	0	IN	62	87	76	F	11.4	2.7	MPH	75.2	F
73.	Jul-26-2023	0.06	IN	71	89	80	F	25.1	8.5	MPH	76.1	F
74.	Jul-27-2023	0	IN	74	95	83	F	11.6	3.4	MPH	78.4	F
75.	Jul-28-2023	0.48	IN	70	90	81	F	36.2	6.3	MPH	79.2	F
76.	Jul-29-2023	0.73	IN	67	85	75	F	32	4.5	MPH	78.1	F
77.	Jul-30-2023	0	IN	62	85	73	F	15.7	2.9	MPH	76.3	F
78.	Jul-31-2023	0	IN	57	81	69	F	11.9	2.5	MPH	74.7	F
79.	Aug-1-2023	0	IN	56	82	71	F	10.3	2	MPH	73.4	F
80.	Aug-2-2023	0	IN	62	84	72	F	12.3	3.6	MPH	74.7	F
81.	Aug-3-2023	0	IN	64	89	75	F	11.6	1.8	MPH	77.5	F
82.	Aug-4-2023	0	IN	61	91	77	F	8.5	1.8	MPH	78.8	F
83.	Aug-5-2023	1.27	IN	69	80	74	F	29.8	5.6	MPH	76.8	F

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84.	Aug-6-2023	0	IN	64	78	69	F	18.1	5.8	MPH	74.3	F
85.	Aug-7-2023	0.15	IN	65	78	70	F	17.2	3.4	MPH	74.3	F
86.	Aug-8-2023	0.46	IN	60	82	69	F	22.1	4	MPH	74.5	F
87.	Aug-9-2023	0.5	IN	61	81	69	F	19.9	2.7	MPH	73.9	F
88.	Aug-10-2023	0	IN	63	80	71	F	15.4	3.8	MPH	75	F
89.	Aug-11-2023	0	IN	64	84	74	F	22.1	5.6	MPH	75.2	F
90.	Aug-12-2023	0.35	IN	65	85	75	F	20.1	5.6	MPH	76.1	F
91.	Aug-13-2023	0	IN	63	85	74	F	11.4	3.1	MPH	76.1	F
92.	Aug-14-2023	0.08	IN	65	77	70	F	18.3	5.1	MPH	74.7	F
93.	Aug-15-2023	0	IN	59	75	66	F	19	5.6	MPH	71.8	F
94.	Aug-16-2023	0	IN	55	80	68	F	9.8	2.7	MPH	71.6	F
95.	Aug-17-2023	0.25	IN	60	78	68	F	24.2	7.2	MPH	71.2	F
96.	Aug-18-2023	0	IN	53	77	65	F	12.8	2.2	MPH	70.5	F
97.	Aug-19-2023	0	IN	57	81	69	F	16.1	4.3	MPH	70.9	F
98.	Aug-20-2023	0	IN	66	91	78	F	11.9	3.4	MPH	73.6	F
99.	Aug-21-2023	0	IN	73	91	82	F	11.9	3.4	MPH	76.8	F
100.	Aug-22-2023	0	IN	71	88	78	F	11.2	3.8	MPH	77.5	F
101.	Aug-23-2023	0	IN	70	91	80	F	17	6	MPH	77.5	F
102.	Aug-24-2023	0	IN	76	92	84	F	19.5	6.5	MPH	79.2	F
103.	Aug-25-2023	0	IN	76	92	82	F	11	3.4	MPH	80.1	F
104.	Aug-26-2023	0	IN	68	84	75	F	13.9	3.4	MPH	78.6	F
105.	Aug-27-2023	0	IN	60	78	70	F	14.1	5.1	MPH	75.9	F
106.	Aug-28-2023	0	IN	56	80	67	F	12.3	2.9	MPH	73.4	F
107.	Aug-29-2023	0	IN	52	81	68	F	14.1	3.1	MPH	72.5	F
108.	Aug-30-2023	0	IN	56	75	65	F	17.4	4.7	MPH	72.1	F
109.	Aug-31-2023	0	IN	50	76	64	F	15.2	4.5	MPH	70.5	F
110.	Sep-1-2023	0	IN	53	84	68	F	12.3	3.1	MPH	70.7	F
111.	Sep-2-2023	0	IN	56	87	72	F	19.2	3.6	MPH	72	F
112.	Sep-3-2023	0	IN	68	88	77	F	16.8	5.8	MPH	74.5	F
113.	Sep-4-2023	0	IN	66	89	78	F	16.6	5.1	MPH	74.7	F
114.	Sep-5-2023	0	IN	70	90	78	F	20.6	6.5	MPH	75.9	F
115.	Sep-6-2023	0.29	IN	65	84	74	F	19.7	7.4	MPH	75.4	F
116.	Sep-7-2023	0	IN	65	74	68	F	13	4.5	MPH	73.2	F
117.	Sep-8-2023	0	IN	59	73	65	F	15.9	3.1	MPH	71.2	F
118.	Sep-9-2023	0	IN	60	78	67	F	13.2	4	MPH	70.5	F
119.	Sep-10-2023	0	IN	51	83	66	F	8.5	1.6	MPH	69.8	F
120.	Sep-11-2023	0.04	IN	57	82	68	F	12.1	3.4	MPH	70.2	F
121.	Sep-12-2023	0.02	IN	51	75	65	F	13.6	3.1	MPH	70.3	F
122.	Sep-13-2023	0	IN	45	75	60	F	17.2	2.9	MPH	67.3	F
123.	Sep-14-2023	0	IN	46	78	62	F	12.8	2.7	MPH	66.4	F
124.	Sep-15-2023	0	IN	48	82	64	F	11.9	2.5	MPH	66.6	F
125.	Sep-16-2023	0	IN	50	80	63	F	9.8	2.7	MPH	66.4	F
126.	Sep-17-2023	0.22	IN	54	72	61	F	12.1	2.5	MPH	66.6	F
127.	Sep-18-2023	0	IN	49	74	61	F	16.1	2.7	MPH	65.5	F
128.	Sep-19-2023	0	IN	52	79	65	F	16.6	4.7	MPH	64.9	F
129.	Sep-20-2023	0	IN	53	83	69	F	14.8	3.8	MPH	66	F
130.	Sep-21-2023	0	IN	60.1	80.4	69.3	F	15.2	2.9	MPH	67.3	F
131.	Sep-22-2023	0	IN	59.2	85.6	71.4	F	13.2	3.4	MPH	67.8	F
132.	Sep-23-2023	0	IN	54.1	80.8	67.5	F	16.6	4	MPH	67.6	F
133.	Sep-24-2023	0	IN	50.9	85.3	66	F	19.2	3.1	MPH	67.3	F
134.	Sep-25-2023	0	IN	54.3	85.5	68.7	F	14.5	3.1	MPH	68	F
135.	Sep-26-2023	0.18	IN	60.4	76.6	66	F	20.6	4.3	MPH	68	F

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136.	Sep-27-2023	0.14	IN	61.2	76.3	65.7	F	15.2	3.4	MPH	67.1	F
137.	Sep-28-2023	0	IN	58.3	74.8	66.2	F	8.9	2.2	MPH	67.6	F
138.	Sep-29-2023	0	IN	54.3	82.8	66.6	F	14.3	2.2	MPH	67.6	F
139.	Sep-30-2023	0	IN	54	86.2	68.7	F	13.9	2.5	MPH	67.3	F
140.	Oct-1-2023	0	IN	55.8	87.1	70.9	F	14.8	2.2	MPH	67.5	F
141.	Oct-2-2023	0	IN	56.7	89.8	72	F	12.1	2.2	MPH	68.2	F
142.	Oct-3-2023	0	IN	57.2	88.9	73.8	F	15	3.8	MPH	68.7	F
143.	Oct-4-2023	0	IN	64.9	86.5	73.9	F	24.6	5.8	MPH	69.3	F
144.	Oct-5-2023	0.38	IN	60.4	70.9	65.8	F	21.7	6.3	MPH	67.8	F
145.	Oct-6-2023	0	IN	44.2	68	54.3	F	28.2	6	MPH	64.2	F
146.	Oct-7-2023	0	IN	42.4	61.3	50.5	F	22.1	6.9	MPH	59.9	F
147.	Oct-8-2023	0	IN	40.1	56.5	48.6	F	15.2	3.8	MPH	57.2	F

Application Description

	A
Date	May-17-2023
Start Time	4:07 PM
Stop Time	4:29 PM
Method	SPRAY
Timing	PRE
Placement	BROSOI
Mixed/Prepared By	C. BLAND
Applied By	M. ZIMMER
Entry Date	Jun-13-2023
Air Temperature Start, Stop	73, 73 F
% Relative Humidity Start, Stop	34.3, 34.3
Wind Velocity+Dir. Start	3 MPH, W
Wind Velocity+Dir. Stop	3 MPH, W
Wind Velocity+Dir. Max	7 MPH, W
Wet Leaves (Y/N)	N, no
Soil Temperature	80 F
Soil Temperature Depth	4 IN
Soil Moisture	ADEQUATE
% Ground Cover	0
% Cloud Cover	0
Moisture 1 Week Before Appl.	0.7 IN
Moisture 6 Hours after Appl.	0 IN
Moisture 24 Hours after Appl.	0 IN
Moisture 1 Week after Appl.	0.59 IN
Problems with Application?	N, no

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale	ZEAMX, BCOR
Days after Emergence	-9
Stage Majority, Percent	0, -
Stage Minimum, Percent	0, -
Stage Maximum, Percent	0, -
Height Average	0 IN
Height Minimum, Maximum	0, 0

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Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale	AMBTR, W, BBCH
Height Average	0 IN
Height Minimum, Maximum	0, 0
Density Average	0 FT2
Density Minimum, Maximum	0, 0
Pest 2 Code, Type, Scale	ECHCG, W, BBCH
Height Average	0 IN
Height Minimum, Maximum	0, 0
Density Average	0 FT2
Density Minimum, Maximum	0, 0

Application Equipment

	A
Equipment Name	CO2 BACKPACK
Equipment Type	BACSPR
Operation Pressure	28 PSI
Nozzle Model	AIXR
Nozzle Type	FLAFAI
Nozzle TradeName	TEEJET
Nozzle Tip Size, Color	110015, GREEN
Nozzle Spacing	15.0 IN
Spray Swath	10.0 FT
Boom Length	10.0 FT
Ground Speed	3 MPH
Application Amount	15 GAL/AC
Mix Overage	236.0 mL
Mix Size	1800.0 mL
Propellant	COMCO2

Notes

Context	Date	By	Notes
STATUS	Apr-18-2023	Dr. Bill Johnson	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	Jun-1-2023	Dr. Bryan Young	Automatically added by ARM: Status changed to: E: changed by (EINYOB).
STATUS	Jun-1-2023	Dr. Bryan Young	Automatically added by ARM: Trial Status updated to 'E' when Rating Date entered.

Instructions:

1. Albaugh
2. Evaluations: ci/wc 3, 7, 10, and 14 DAE, wc 21 and 28 DAE.
3. Yield

Purdue Weed Science

Albaugh Corn Herbicide Programs

Trial ID: 23-TPAC-Corn-11
 Protocol ID: 23-TPAC-Corn-11 Location: Throckmorton-PAC Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Dr. Bill Johnson Sponsor Contact: Jaime Yanes
 Investigator: Dr. Bill Johnson

Assessed By	Marcelo Zimmer	Marcelo Zimmer	Claudia Bland	Claudia Bland	Marcelo Zimmer	Marcelo Zimmer		
Rating Date	May-29-2023	Jun-2-2023	Jun-5-2023	Jun-9-2023	May-29-2023	Jun-2-2023		
Rating Type	PHYGEN	PHYGEN	PHYGEN	PHYGEN	CONTRO	CONTRO		
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100		
Pest Code					AMBTR	AMBTR		
Pest Scientific Name					Ambrosia trifida	Ambrosia trifida		
Pest Name					Giant ragweed	Giant ragweed		
Rating Timing	3 DA-E	7 DA-E	10 DA-E	14 DA-E	3 DA-E	7 DA-E		
ARM Action Codes					EC	EC		
Trt Treatment	Rate	Appl	1*	3*	5*	7*	2*	4*
No. Name	Rate Unit	Code						
1 DURUS	2.6 qt/a	A	0.0 a	0.0 a	0.0 a	0.0 a	89.5 a	84.5 ab
2 DURUS CABALLERO	2.6 qt/a 6 fl oz/a	A A	0.0 a	0.0 a	0.0 a	0.0 a	97.5 a	92.5 a
3 PRIORITY MA	3.5 qt/a	A	0.0 a	0.0 a	0.0 a	0.0 a	97.3 a	97.3 a
4 PRIORITY MA CABALLERO	3.5 qt/a 6 fl oz/a	A A	0.0 a	0.0 a	0.0 a	0.0 a	93.3 a	92.0 a
5 SURESTART II	1.5 pt/a	A	0.0 a	0.0 a	0.0 a	0.0 a	72.5 b	71.3 b
6 ACURON	3 qt/a	A	0.0 a	0.0 a	0.0 a	0.0 a	91.3 a	91.0 a
7 RESICORE	2.75 qt/a	A	0.0 a	0.0 a	0.0 a	0.0 a	92.5 a	88.3 a
8 MAVERICK	28 fl oz/a	A	0.0 a	0.0 a	0.0 a	0.0 a	89.5 a	87.5 a
9 NONTREATED			0.0 a	0.0 a	0.0 a	0.0 a	0.0	0.0
LSD P=.05			.	.	.	.	11.57	13.52
Standard Deviation			0.00	0.00	0.00	0.00	7.86	9.20
CV			0.0	0.0	0.0	0.0	8.7	10.45
Levene's Prob(F)			.	.	.	.	0.494	0.845
P(Shapiro-Wilk)^			.	.	.	.	0.0677	0.1538
P(Skewness)^			.	.	.	.	0.0517	0.4587
P(Kurtosis)^			.	.	.	.	0.0054*	0.0652
Replicate F			0.000	0.000	0.000	0.000	0.314	0.132
Replicate Prob(F)			1.0000	1.0000	1.0000	1.0000	0.8148	0.9397
Treatment F			0.000	0.000	0.000	0.000	3.997	2.865
Treatment Prob(F)			1.0000	1.0000	1.0000	1.0000	0.0063	0.0290

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.
 Due to missing data, larger LSD values (col. 14: >=49.816 and <=54.286) are used for mean comparisons of treatment pairs with missing data.
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 1,3,5,7 because error mean square = 0.
 ^Calculated from residual.

Purdue Weed Science

Albaugh Corn Herbicide Programs

Trial ID: 23-TPAC-Corn-11
 Protocol ID: 23-TPAC-Corn-11 Location: Throckmorton-PAC Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Dr. Bill Johnson Sponsor Contact: Jaime Yanes
 Investigator: Dr. Bill Johnson

Assessed By	Claudia Bland	Claudia Bland	Claudia Bland	Claudia Bland	Claudia Bland	Claudia Bland			
Rating Date	Jun-5-2023	Jun-9-2023	Jun-16-2023	Jun-23-2023	Jun-9-2023	Jun-16-2023			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit/Min/Max	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100	% , 0, 100			
Pest Code	AMBTR	AMBTR	AMBTR	AMBTR	ECHCG	ECHCG			
Pest Scientific Name	Ambrosia trifida	Ambrosia trifida	Ambrosia trifida	Ambrosia trifida	Echinochloa cru>	Echinochloa cru>			
Pest Name	Giant ragweed	Giant ragweed	Giant ragweed	Giant ragweed	common barnyard>	common barnyard>			
Rating Timing	10 DA-E	14 DA-E	21 DA-E	28 DA-E	14 DA-E	21 DA-E			
ARM Action Codes	EC	EC	EC	EC	EC	EC			
Trt No.	Treatment Name	Rate	Appl Code	6*	8*	10*	12*	9*	11*
1	DURUS	2.6 qt/a	A	80.8 bc	80.0 ab	80.0 ab	76.3 a	100.0 a	97.5 a
2	DURUS CABALLERO	2.6 qt/a 6 fl oz/a	A A	90.8 ab	90.8 a	89.5 a	86.3 a	100.0 a	99.0 a
3	PRIORITY MA	3.5 qt/a	A	93.3 a	90.8 a	90.0 a	88.3 a	97.5 a	94.5 a
4	PRIORITY MA CABALLERO	3.5 qt/a 6 fl oz/a	A A	86.3 ab	85.0 ab	83.8 ab	80.8 a	100.0 a	97.0 a
5	SURESTART II	1.5 pt/a	A	70.8 c	67.5 c	62.5 c	52.5 b	97.5 a	94.5 a
6	ACURON	3 qt/a	A	88.3 ab	86.3 ab	85.8 ab	82.0 a	96.3 a	95.0 a
7	RESICORE	2.75 qt/a	A	81.3 abc	77.5 bc	76.3 b	73.8 a	100.0 a	99.5 a
8	MAVERICK	28 fl oz/a	A	83.8 ab	81.3 ab	81.3 ab	78.8 a	90.0 b	87.5 b
9	NONTREATED			0.0	0.0	0.0 d	0.0	0.0	0.0
LSD P=.05				12.01	11.51	13.04	18.28	5.24	6.32
Standard Deviation				8.17	7.83	8.94	12.43	3.56	4.30
CV				9.68	9.5	12.39	16.08	3.65	4.5
Levene's Prob(F)				0.817	0.839	0.502	0.076	0.147	0.294
P(Shapiro-Wilk)^				0.0779	0.1785	0.0228*	0.3202	0.0267*	0.0291*
P(Skewness)^				0.0387*	0.0627	0.0356*	0.2421	0.0673	0.1917
P(Kurtosis)^				0.0025*	0.0982	0.0*	0.0193*	0.0886	0.4179
Replicate F				0.241	0.078	0.266	0.208	1.375	0.959
Replicate Prob(F)				0.8668	0.9715	0.8491	0.8898	0.2777	0.4305
Treatment F				2.970	3.862	40.053	3.198	3.721	3.116
Treatment Prob(F)				0.0250	0.0075	0.0001	0.0182	0.0090	0.0203

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Purdue Weed Science

Albaugh Corn Herbicide Programs

Trial ID: 23-TPAC-Corn-11
 Protocol ID: 23-TPAC-Corn-11 Location: Throckmorton-PAC Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Dr. Bill Johnson Sponsor Contact: Jaime Yanas
 Investigator: Dr. Bill Johnson

Assessed By	Claudia Bland		Lucas Maia
Rating Date	Jun-23-2023		Oct-8-2023
Rating Type	CONTRO		YIELD
Rating Unit/Min/Max	%, 0, 100		bu/ac, -, -
Pest Code	ECHCG		
Pest Scientific Name	Echinochloa cru>		
Pest Name	common barnyard>		
Rating Timing	28 DA-E		
ARM Action Codes	EC		
Trt No.	Treatment Name	Rate	Appl Code
		Rate Unit	
1	DURUS	2.6 qt/a	A
2	DURUS	2.6 qt/a	A
	CABALLERO	6 fl oz/a	A
3	PRIORITY MA	3.5 qt/a	A
4	PRIORITY MA	3.5 qt/a	A
	CABALLERO	6 fl oz/a	A
5	SURESTART II	1.5 pt/a	A
6	ACURON	3 qt/a	A
7	RESICORE	2.75 qt/a	A
8	MAVERICK	28 fl oz/a	A
9	NONTREATED		
LSD P=.05		6.80	49.816
Standard Deviation		4.63	34.056
CV		4.91	24.0
Levene's Prob(F)		0.19	0.641
P(Shapiro-Wilk)^		0.526	0.6499
P(Skewness)^		0.4558	0.7827
P(Kurtosis)^		0.4364	0.3866
Replicate F		0.846	0.473
Replicate Prob(F)		0.4839	0.7040
Treatment F		4.411	11.850
Treatment Prob(F)		0.0038	0.0001

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Project ID: Project ID 2: Project ID 3:
Study Director: Dr. Bill Johnson Sponsor Contact: Jaime Yanes
Investigator: Dr. Bill Johnson

Assessed By

Marcelo Zimmer = MZ

Rating Type

PHYGEN = phytotoxicity - general / injury

CONTRO = control / burndown or knockdown

YIELD = yield

Rating Unit/Min/Max

%, 0, 100 = percent

bu/ac, , = bushels per acre

Pest Code

AMBTR, Ambrosia trifida, Giant ragweed = US

ECHCG, Echinochloa crus-galli, common barnyardgrass = US

ARM Action Codes

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