

Purdue Weed Science

Resicore XL and Kyro Herbicide Programs in Corn

Trial ID: 23-MGS-Corn-01
 Location: Meigs Trial Year: 2023
 Study Director: Dr. Bill Johnson
 Sponsor Contact: Kevin Johnson

General Trial Information

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

Discipline: H herbicide
Status: E established

Status Date: May-23-2023

Last Changed By: Dr. Bill Johnson

ARM Trial Created On: Mar-4-2023

Initiation Date: May-5-2023 **Planned Completion Date:** Oct-15-2023
Protocol Revision Date: Mar-4-2023

Trial Location

Address (Location): MEIGS - Purdue Ag Center
City: Lafayette **Country:** USA United States
State/Prov.: Indiana IN **County:** Tippecanoe
Postal Code: 47907

Upper Left: 40.27105 -86.8808 **Upper Right:** 40.27075 -86.8808
Latitude of LL Corner °: 40.27105 N **Lower Right:** 40.27075 -86.88144
Longitude of LL Corner °: -86.88144 W **USAIN** 41.761368 -37.771728
 -84.784592 --88.097892

Angle y-axis to North °: 90

Time Zone: America/Indiana/Indianapolis

Regulations

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Role: STYDIR study director
Study Director: Dr. Bill Johnson **Title:** Professor
Organization: Purdue University
Address 1: 915 W. State Street
City: West Lafayette **State/Prov:** IN **Postal Code:** 47906
E-mail: wgj@purdue.edu
Role: INVEST investigator
Investigator: Dr, Bill Johnson **Title:** Professor
Organization: Purdue University
Address 1: 915 W. State Street
City: West Lafayette **State/Prov:** IN **Postal Code:** 47906
E-mail: wgj@purdue.edu
Role: SPONSR sponsor
Sponsor: Kevin Johnson
Organization: Corteva
Role: COOPER cooperater
Cooperator: Jay Young **Title:** Superintendent
Organization: Purdue University
Address 1: 8343 US 231 S **Phone No.:** (765) 538-3422
E-mail: jayyoung@purdue.edu
City: Lafayette **State/Prov:** IN **Postal Code:** 47907

Crop Description

Crop 1: C ZEAMX Zea mays **Corn** **BBCH Scale:** BCOR
Entry Date: May-24-2023 **Stage Scale:** BBCH
Variety: B09U78SXE
Attributes: Glyphosate-R, Glufosinate-R, and 2,4-D-R
Planting Date: May-5-2023 **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 Moisture: NORMAL normal, adequate
Emergence Date: May-12-2023

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Pest Description

- Pest 1 Type:** W **Code:** AMATU *Amaranthus tuberculatus* **Entry Date:** May-24-2023
Common Name: tall waterhemp **Stage Scale:** BBCH
Attributes: Glyphosate-R and PPO-R
- Pest 2 Type:** W **Code:** AMBTR *Ambrosia trifida* **Entry Date:** May-24-2023
Common Name: Giant ragweed **Stage Scale:** BBCH
- Pest 3 Type:** W **Code:** ABUTH *Abutilon theophrasti* **Entry Date:** May-24-2023
Common Name: velvetleaf **Stage Scale:** BBCH
- Pest 4 Type:** W **Code:** IPOHE *Ipomoea hederacea* **Entry Date:** May-24-2023
Common Name: ivy-leaf morning glory **Stage Scale:** BBCH
- Pest 5 Type:** W **Code:** CHEAL *Chenopodium album* **Entry Date:** May-24-2023
Common Name: common lambsquarters **Stage Scale:** BBCH
- Pest 6 Type:** W **Code:** ECHCG *Echinochloa crus-galli* **Entry Date:** May-24-2023
Common Name: common barnyardgrass **Stage Scale:** BBCH

Site and Design

Treated Plot Width: 6.67 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT **Experimental Unit:** 1 PLOT plot
Treated Plot Area: 200.1 FT2 **Tillage Type:** NOTILL no-till
Replications: 4 **Treatments:** 8 **Plots:** 32 **Study Design:** RACOB� Randomized Complete Block (RCB)
Distance between Blocks: 0 FT

Field Prep./Maintenance:

Roundup PowerMax 3 (30 fl oz/A) + 2,4-D (1 pint/A) applied 04/12/2023.
Gramoxone (3 pt/A) applied 05/04/2023.
180 lbs of N applied as 28% UAN on 5/9/23.

Soil Description

Description Name: MEIGS-S3
% Sand: 21 **% OM:** 2.2 **Texture:** SIL silt loam
% Silt: 54 **Soil Name:** Starks-Fincastle complex
% Clay: 25 **Fert. Level:** G good
pH: 6.8 **CEC:** 8.3

No.	Date	Moisture Total	Unit	Min Temp	Max Temp	Avg Temp	Temp Unit	Max Wind	Avg Wind	Unit
1.	May-1-2023	0.011	IN	39.7	46.4	42.6	F		10.7	MPH
2.	May-2-2023	0	IN	41	57.9	47.1	F		7.8	MPH
3.	May-3-2023	0	IN	39.2	62.4	49.3	F		5.4	MPH
4.	May-4-2023	0	IN	36.3	71.4	55.6	F		2	MPH
5.	May-5-2023	0	IN	49.1	78.1	64.2	F		7.2	MPH
6.	May-6-2023	0.002	IN	57.7	77.5	67.1	F		9.2	MPH
7.	May-7-2023	0.03	IN	60.8	79.7	69.1	F		9.2	MPH
8.	May-8-2023	0.003	IN	58.3	75.9	66.9	F		6.7	MPH
9.	May-9-2023	0	IN	54	75.2	64	F		5.4	MPH
10.	May-10-2023	0	IN	52.9	78.3	65.8	F		3.1	MPH
11.	May-11-2023	0	IN	53	81.4	67.94	F		1.8	MPH
12.	May-12-2023	0.001	IN	63.4	79	70.76	F		0.9	MPH
13.	May-13-2023	0.007	IN	66.5	80	72.06	F		1.2	MPH
14.	May-14-2023	0.023	IN	58.7	72.8	65.19	F		4.8	MPH
15.	May-15-2023	0.002	IN	54.3	71.8	61.5	F		2.1	MPH
16.	May-16-2023	0.001	IN	53.9	71.4	62.06	F		0.9	MPH
17.	May-17-2023	0	IN	49.9	70.2	60.7	F		2.3	MPH
18.	May-18-2023	0	IN	44	74	59.75	F		2.2	MPH
19.	May-19-2023	0.045	IN	57.1	79.6	64.84	F		1.5	MPH
20.	May-20-2023	0	IN	47.6	66.3	57.57	F		0	MPH

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21.	May-21-2023	0	IN	44.3	78	62.38	F		0.3	MPH
22.	May-22-2023	0	IN	51.1	80	67.15	F		0.2	MPH
23.	May-23-2023	0	IN	56.7	82	70.38	F		0.3	MPH
24.	May-24-2023	0	IN	54.4	82.9	70.73	F		1	MPH
25.	May-25-2023	0	IN	48.4	68.3	59.7	F		5.9	MPH
26.	May-26-2023	0	IN	46.8	75	61.24	F		4	MPH
27.	May-27-2023	0	IN	47.2	77	64.85	F		2.5	MPH
28.	May-28-2023	0	IN	57.6	79.6	68.81	F		0.5	MPH
29.	May-29-2023	0	IN	56.4	84.6	71.88	F		0.6	MPH
30.	May-30-2023	0	IN	58.7	87.1	75.14	F		1.3	MPH
31.	May-31-2023	0	IN	65.4	87.7	77.14	F		0.6	MPH
32.	Jun-1-2023	0	IN	64.6	89.2	77.42	F		1.6	MPH
33.	Jun-2-2023	0	IN	61	89.9	76.83	F		1.3	MPH
34.	Jun-3-2023	0	IN	63.1	89.9	78.15	F		1.2	MPH
35.	Jun-4-2023	0	IN	63.5	82	73.54	F		2.5	MPH
36.	Jun-5-2023	0	IN	54.1	78.8	67.66	F		1.6	MPH
37.	Jun-6-2023	0	IN	53.7	85.5	69.23	F		0.1	MPH
38.	Jun-7-2023	0	IN	59.1	76.2	67.27	F		1	MPH
39.	Jun-8-2023	0	IN	45.9	76.6	62.87	F		0.6	MPH
40.	Jun-9-2023	0	IN	44.6	79.3	64.11	F		0.2	MPH
41.	Jun-10-2023	0	IN	56.5	84.1	71.38	F		1.3	MPH
42.	Jun-11-2023	0.03	IN	56.1	68.3	63.16	F		0.3	MPH
43.	Jun-12-2023	0	IN	51.5	67.7	58.29	F		0.7	MPH
44.	Jun-13-2023	0.001	IN	55	68.6	60.74	F		2.4	MPH
45.	Jun-14-2023	0.002	IN	56.9	76.7	66.76	F		0	MPH
46.	Jun-15-2023	0	IN	57.6	84.2	70.06	F		1.8	MPH
47.	Jun-16-2023	0	IN	50.8	71.7	60.86	F		0.4	MPH
48.	Jun-17-2023	0	IN	50.7	80.9	66.2	F		0	MPH
49.	Jun-18-2023	0	IN	57.3	82.5	70.7	F		1.2	MPH
50.	Jun-19-2023	0	IN	65.6	84	74.05	F		3.3	MPH
51.	Jun-20-2023	0	IN	63.8	86.9	74.64	F		4.4	MPH
52.	Jun-21-2023	0	IN	64.4	86	75.4	F		5.1	MPH
53.	Jun-22-2023	0	IN	61.1	81.1	71.33	F		2.4	MPH
54.	Jun-23-2023	0	IN	64.7	82.4	72.52	F		0	MPH
55.	Jun-24-2023	0	IN	59.3	89.2	75.93	F		0.2	MPH
56.	Jun-25-2023	0.046	IN	66.8	87.6	76.75	F		2.8	MPH
57.	Jun-26-2023	0	IN	65.4	74.7	70.53	F		4.3	MPH
58.	Jun-27-2023	0	IN	60.4	75.3	66.32	F		0.1	MPH
59.	Jun-28-2023	0	IN	52.6	79.7	66.17	F		0.4	MPH
60.	Jun-29-2023	0.032	IN	63.7	82.9	69.49	F		1.3	MPH
61.	Jun-30-2023	0	IN	62.4	83.8	73.03	F		0.6	MPH
62.	Jul-1-2023	0.019	IN	69	82.8	74.98	F		1.1	MPH
63.	Jul-2-2023	0.067	IN	67.7	81.4	72.16	F		1.2	MPH
64.	Jul-3-2023	0	IN	65.3	84.2	73.93	F		0.1	MPH
65.	Jul-4-2023	0	IN	64.4	88	76.25	F	7	0.3	MPH
66.	Jul-5-2023	0.07	IN	67.9	88.4	78.03	F	18	0.7	MPH
67.	Jul-6-2023	0.01	IN	68.8	82.9	74.17	F	11	0.6	MPH
68.	Jul-7-2023	0	IN	60.5	82.2	71.58	F	8	0.3	MPH
69.	Jul-8-2023	0.9	IN	62.8	74.6	68.13	F	12	0.2	MPH
70.	Jul-9-2023	0	IN	56.4	81	67.51	F	7	0.1	MPH
71.	Jul-10-2023	0	IN	57.6	81	70.65	F	10	0.8	MPH
72.	Jul-11-2023	0	IN	63.1	83.7	73.9	F	14	1.8	MPH

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73.	Jul-12-2023	0	IN	69.8	84.4	76.47	F	17	0.7	MPH
74.	Jul-13-2023	0	IN	63.8	77.8	70.21	F	8	0.2	MPH
75.	Jul-14-2023	0	IN	59.6	87	73.92	F	9	0.5	MPH
76.	Jul-15-2023	1.68	IN	66.2	82.1	72.95	F	8	0.3	MPH
77.	Jul-16-2023	0	IN	62.5	81.3	71.73	F	12	1.3	MPH
78.	Jul-17-2023	0.15	IN	65.5	79.1	70.6	F	9	0.9	MPH
79.	Jul-18-2023	0	IN	62.7	79.7	70.75	F	5	0	MPH
80.	Jul-19-2023	0	IN	56.6	82.6	70.73	F	5	0	MPH
81.	Jul-20-2023	0	IN	67.9	84.8	75.5	F	14	0.7	MPH
82.	Jul-21-2023	0	IN	59.8	79.8	70.08	F	6	0	MPH
83.	Jul-22-2023	0	IN	57.3	81.5	69.38	F	6	0	MPH
84.	Jul-23-2023	0.01	IN	58.5	82.8	70.3	F	9	0.7	MPH
85.	Jul-24-2023	0	IN	62.5	84.7	73.5	F	4	0	MPH
86.	Jul-25-2023	0	IN	60.6	84.9	73.27	F	6	0.1	MPH
87.	Jul-26-2023	0.01	IN	68.9	87.5	78.15	F	12	1.1	MPH
88.	Jul-27-2023	0	IN	72.7	92	82.51	F	7	0.3	MPH
89.	Jul-28-2023	1.2	IN	69.1	89.2	79.86	F	17	0.8	MPH
90.	Jul-29-2023	1.03	IN	68.4	83.1	75.48	F	9	0.4	MPH
91.	Jul-30-2023	0	IN	60.7	82.2	71.86	F	6	0.1	MPH
92.	Jul-31-2023	0	IN	56.2	77.8	67.7	F	6	0.3	MPH
93.	Aug-1-2023	0	IN	55.6	79.8	68.02	F	4	0	MPH
94.	Aug-2-2023	0	IN	59	80.5	70.02	F	6	0	MPH
95.	Aug-3-2023	0	IN	62.9	83.2	72.74	F	5	0	MPH
96.	Aug-4-2023	0	IN	60	86.2	73.91	F	4	0	MPH
97.	Aug-5-2023	0.85	IN	66.3	79.5	72.76	F	10	1	MPH
98.	Aug-6-2023	0.02	IN	63.3	75	68.31	F	12	1.7	MPH
99.	Aug-7-2023	0.21	IN	64.1	76.9	69.3	F	6	0.1	MPH
100.	Aug-8-2023	1.31	IN	60.4	80.2	68.38	F	13	0.5	MPH
101.	Aug-9-2023	0.68	IN	59.2	79.6	67.76	F	7	0	MPH
102.	Aug-10-2023	0.02	IN	63	79.5	70.32	F	10	0.6	MPH
103.	Aug-11-2023	0	IN	63.9	82.9	73.19	F	11	0.9	MPH
104.	Aug-12-2023	0.37	IN	66.5	83.9	74.98	F	14	1	MPH
105.	Aug-13-2023	0	IN	62.8	83.9	72.48	F	7	0.2	MPH
106.	Aug-14-2023	0.18	IN	66	74.7	69.23	F	10	0.5	MPH
107.	Aug-15-2023	0	IN	60.7	72.6	65.52	F	10	1	MPH
108.	Aug-16-2023	0	IN	54	78.2	66.45	F	6	0	MPH
109.	Aug-17-2023	0.38	IN	60.6	75.3	66.57	F	12	1.6	MPH
110.	Aug-18-2023	0	IN	52.7	75.8	64.65	F	8	0	MPH
111.	Aug-19-2023	0	IN	55	79.4	67	F	8	0.2	MPH
112.	Aug-20-2023	0	IN	63.4	86.2	75.11	F	7	0.1	MPH
113.	Aug-21-2023	0	IN	72.2	87.9	79.59	F	5	0.1	MPH
114.	Aug-22-2023	0	IN	70	85	76.8	F	7	0.5	MPH
115.	Aug-23-2023	0	IN	68.9	89.6	79.1	F	13	0.8	MPH
116.	Aug-24-2023	0	IN	76.5	91.8	83.8	F	13	1.3	MPH
117.	Aug-25-2023	0	IN	75.4	87.3	81.47	F	7	0.3	MPH
118.	Aug-26-2023	0	IN	68	83.4	75.1	F	9	0	MPH
119.	Aug-27-2023	0	IN	62.5	76.9	68.89	F	9	0.8	MPH
120.	Aug-28-2023	0	IN	54.1	77	64.85	F	7	0.3	MPH
121.	Aug-29-2023	0	IN	51.9	81.1	66.23	F	8	0.4	MPH
122.	Aug-30-2023	0	IN	55.5	73.1	64.73	F	10	0.3	MPH
123.	Aug-31-2023	0	IN	48.3	74.7	61.46	F	9	0.8	MPH
124.	Sep-1-2023	0	IN	50.6	81.1	65.47	F	7	0.1	MPH

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125.	Sep-2-2023	0	IN	55.9	86.1	70.93	F	11	0.4	MPH
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Application Description

	A	B	C
Date	May-5-2023	May-16-2023	May-31-2023
Start Time	8:16 PM	6:17 PM	6:53 PM
Stop Time	8:28 PM	6:20 PM	7:05 PM
Interval to Prev. Appl.		11 DAYS	15 DAYS
Method	SPRAY	SPRAY	SPRAY
Timing	PRE	V1/V2 CORN	4" WEEDS
Placement	BROSOI	BROFOL	BROFOL
Applied By	L. MAIA	M. ZIMMER	M. ZIMMER
Entry Date	May-24-2023	May-24-2023	Jun-15-2023
Air Temperature Start, Stop	72, 72 F	76, 76 F	81, 81 F
% Relative Humidity Start, Stop	41, 41	53, 53	47, 47
Wind Velocity+Dir. Start	2 MPH, SE	1 MPH, -	1 MPH, SSE
Wind Velocity+Dir. Stop	2 MPH, SE	1 MPH, -	1 MPH, SSE
Wind Velocity+Dir. Max	2 MPH, SE	1 MPH, -	1.5 MPH, SSE
Wet Leaves (Y/N)	N, no	N, no	N, no
Soil Temperature	69 F	70 F	83 F
Soil Moisture	NORMAL	NORMAL	DRY
% Cloud Cover	30	85	60

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale	ZEAMX, BCOR	ZEAMX, BCOR	ZEAMX, BCOR
Days after Emergence	-7	4	19
Stage Scale Used	BBCH	BBCH	BBCH
Stage Majority, Percent	00, -	V1, -	V4, -
Stage Minimum, Percent	00, -	V1, -	V3, -
Stage Maximum, Percent	00, -	V1, -	V5, -
Height Average	0 IN	3 IN	11 IN
Height Minimum, Maximum	0, 0	2, 4	10, 13

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Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale	AMATU, W, BBCH	AMATU, W, BBCH	AMATU, W, BBCH
Height Average	0 IN	2 IN	
Height Minimum, Maximum	0, 0	2, 4	
Density Average	0 FT2	10 FT2	
Density Minimum, Maximum	0, 0	0, 54	
Pest 2 Code, Type, Scale	AMBTR, W, BBCH	AMBTR, W, BBCH	AMBTR, W, BBCH
Height Average	0 IN	2 IN	3 IN
Height Minimum, Maximum	0, 0	1, 2	2, 4
Density Average	0 FT2	- FT2	6 FT2
Density Minimum, Maximum	0, 0	0, 3	0, 12
Pest 3 Code, Type, Scale	ABUTH, W, BBCH	ABUTH, W, BBCH	ABUTH, W, BBCH
Height Average	0 IN	1 IN	3 IN
Height Minimum, Maximum	0, 0	1, 2	0.5, 3
Density Average	0 FT2	- FT2	0 FT2
Density Minimum, Maximum	0, 0	0, 1	0, 1
Pest 4 Code, Type, Scale	IPOHE, W, BBCH	IPOHE, W, BBCH	IPOHE, W, BBCH
Height Average	0 IN	1 IN	
Height Minimum, Maximum	0, 0	1, 2	
Density Average	0 FT2	- FT2	
Density Minimum, Maximum	0, 0	0, 1	
Pest 5 Code, Type, Scale	CHEAL, W, BBCH	CHEAL, W, BBCH	CHEAL, W, BBCH
Height Average	0 IN	0.4 IN	
Height Minimum, Maximum	0, 0	0.2, 0.5	
Density Average	0 FT2	- FT2	
Density Minimum, Maximum	0, 0	0, 4	
Pest 6 Code, Type, Scale	ECHCG, W, BBCH	ECHCG, W, BBCH	ECHCG, W, BBCH
Height Average	0 IN	0.7 IN	3 IN
Height Minimum, Maximum	0, 0	0.5, 1	1, 3
Density Average	0 FT2	- FT2	0 FT2
Density Minimum, Maximum	0, 0	0, 24	0, 2

Application Equipment

	A	B	C
Equipment Name	CO2 BACKPACK	CO2 BACKPACK	CO2 BACKPACK
Equipment Type	BACSPR	BACSPR	BACSPR
Operation Pressure	20 PSI	18 PSI	39 PSI
Nozzle Model	XR	XR	AIXR
Nozzle Type	FLAFXR	FLAFXR	FLAFAI
Nozzle TradeName	TEEJET	TEEJET	TEEJET
Nozzle Tip Size, Color	8002, YELLOW	8002, YELLOW	110015, GREEN
Nozzle Spacing	20 IN	20 IN	20 IN
Boom Length	6.67 FT	6.67 FT	6.67 FT
Ground Speed	3 MPH	3 MPH	3 MPH
Carrier	WATER	WATER	WATER
Application Amount	15 GAL/AC	15 GAL/AC	15 GAL/AC
Minimum Mix/Treatment	1043.3 mL	1043.3 mL	1043.3 mL
Mix Overage	75.6 mL	75.6 mL	75.6 mL
Mix Size	1119.0 mL	1119.0 mL	1119.0 mL
Propellant	COMCO2	COMCO2	COMCO2

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Assessed By			Claudia Bland	Claudia Bland	Claudia Bland	Claudia Bland	Claudia Bland	Claudia Bland	
Rating Date			May-20-2023	May-23-2023	May-30-2023	Jun-3-2023	Jun-7-2023	Jun-14-2023	
Part Rated			PLOT, P	PLOT, P	PLOT, P	PLOT, P	PLOT, P	PLOT, P	
Rating Type			PHYGEN	PHYGEN	PHYGEN	PHYGEN	PHYGEN	PHYGEN	
Rating Unit			%	%	%	%	%	%	
Rating Min/Max/Interval			0, 100, -	0, 100, -	0, 100, -	0, 100, -	0, 100, -	0, 100, -	
Crop Type, Code			C, ZEAMX	C, ZEAMX	C, ZEAMX	C, ZEAMX	C, ZEAMX	C, ZEAMX	
Crop Scientific Name			Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	
Crop Name			Corn	Corn	Corn	Corn	Corn	Corn	
Pest Type									
Pest Code									
Pest Scientific Name									
Pest Name									
Rating Timing			3 DA-B	7 DA-B	14 DA-B	3 DA-C	7 DA-C	14 DA-C	
ARM Action Codes			EC	EC	EC	EC	EC	EC	
Trt No.	Treatment Name	Rate	Appl Code	1*	2*	3*	8*	9*	10*
1	RESICORE XL AATREX	3 qt/a 1 qt/a	A A	0.0 b	0.0 b	0.0 b	0.0 d	0.0 e	0.0 c
2	RESICORE XL AATREX ROUNDUP POWERMAX 3 PRIME OIL AMSOL	2 qt/a 1 qt/a 26.7 fl oz/a 0.25 % v/v 2.5 % v/v	B B B B B	10.0 a	15.0 a	5.0 a	0.0 d	0.0 e	0.0 c
3	RESICORE XL KYRO AATREX ROUNDUP POWERMAX 3 PRIME OIL AMSOL	2 qt/a 45 fl oz/a 1 qt/a 26.7 fl oz/a 1 % v/v 2.5 % v/v	A C C C C C	0.0 b	0.0 b	0.0 b	9.5 c	8.0 c	4.0 b
4	SURESTART KYRO ROUNDUP POWERMAX 3 AATREX PRIME OIL AMSOL	32 fl oz/a 45 fl oz/a 26.7 fl oz/a 1 qt/a 1 % v/v 2.5 % v/v	A C C C C C	0.0 b	0.0 b	0.0 b	15.0 a	10.5 a	6.5 a
5	SURPASS NXT KYRO ROUNDUP POWERMAX 3 AATREX PRIME OIL AMSOL	16 fl oz/a 45 fl oz/a 26.7 fl oz/a 1 qt/a 1 % v/v 2.5 % v/v	A C C C C C	0.0 b	0.0 b	0.0 b	8.5 c	5.0 d	4.5 b
6	KEYSTONE NXT KYRO AATREX ACCENT Q PRIME OIL AMSOL	2 qt/a 60 fl oz/a 1 qt/a 1 oz/a 1 % v/v 2.5 % v/v	A C C C C C	0.0 b	0.0 b	0.0 b	13.5 b	9.0 b	4.5 b
7	SURESTART KYRO ROUNDUP POWERMAX 3 AATREX PRIME OIL AMSOL ENLIST ONE	32 fl oz/a 45 fl oz/a 26.7 fl oz/a 1 qt/a 1 % v/v 2.5 % v/v 32 fl oz/a	A C C C C C C	0.0 b	0.0 b	0.0 b	15.0 a	10.0 a	5.0 b

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.

* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,2,3,12,14,18,22 because error mean square = 0.

^Calculated from residual.

Purdue Weed Science

Resicore XL and Kyro Herbicide Programs in Corn

Trial ID: 23-MGS-Corn-01
 Location: Meigs Trial Year: 2023
 Study Director: Dr. Bill Johnson
 Sponsor Contact: Kevin Johnson

Assessed By	Claudia Bland					
Rating Date	May-20-2023	May-23-2023	May-30-2023	Jun-3-2023	Jun-7-2023	Jun-14-2023
Part Rated	PLOT, P					
Rating Type	PHYGEN	PHYGEN	PHYGEN	PHYGEN	PHYGEN	PHYGEN
Rating Unit	%	%	%	%	%	%
Rating Min/Max/Interval	0, 100, -	0, 100, -	0, 100, -	0, 100, -	0, 100, -	0, 100, -
Crop Type, Code	C, ZEAMX					
Crop Scientific Name	Zea mays					
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn
Pest Type						
Pest Code						
Pest Scientific Name						
Pest Name						
Rating Timing	3 DA-B	7 DA-B	14 DA-B	3 DA-C	7 DA-C	14 DA-C
ARM Action Codes	EC	EC	EC	EC	EC	EC
Trt Treatment	1*	2*	3*	8*	9*	10*
No. Name						
Rate						
Appl						
Rate Unit						
Code						
8 UNTREATED	0.0	0.0	0.0	0.0	0.0	0.0
LSD P=.05	.	.	.	1.32	0.82	1.15
Standard Deviation	0.00	0.00	0.00	0.89	0.55	0.78
CV	0.0	0.0	0.0	10.14	9.05	22.19
Levene's Prob(F)	.	.	.	0.004*	0.076	0.154
P(Shapiro-Wilk)^	.	.	.	0.0324*	0.0499*	0.1128
P(Skewness)^	.	.	.	1.0	0.253	1.0
P(Kurtosis)^	.	.	.	0.2629	0.4068	0.2526
Replicate F	0.000	0.000	0.000	0.300	1.737	4.500
Replicate Prob(F)	1.0000	1.0000	1.0000	0.8250	0.1953	0.0159
Treatment F	0.000	0.000	0.000	213.720	270.158	42.000
Treatment Prob(F)	1.0000	1.0000	1.0000	0.0001	0.0001	0.0001

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.

* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,2,3,12,14,18,22 because error mean square = 0.

^Calculated from residual.

Purdue Weed Science

Resicore XL and Kyro Herbicide Programs in Corn

Trial ID: 23-MGS-Corn-01
 Location: Meigs Trial Year: 2023
 Study Director: Dr. Bill Johnson
 Sponsor Contact: Kevin Johnson

Assessed By	Claudia Bland		Claudia Bland	Claudia Bland	Claudia Bland	Claudia Bland		
Rating Date	May-30-2023		Jun-14-2023	Jun-29-2023	Jul-12-2023	May-30-2023		
Part Rated	PLOT, P		PLOT, P	PLOT, P	PLOT, P	PLOT, P		
Rating Type	CONTRO		CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%		%	%	%	%		
Rating Min/Max/Interval	0, 100, -		0, 100, -	0, 100, -	0, 100, -	0, 100, -		
Crop Type, Code	C, ZEAMX		C, ZEAMX	C, ZEAMX	C, ZEAMX	C, ZEAMX		
Crop Scientific Name	Zea mays		Zea mays	Zea mays	Zea mays	Zea mays		
Crop Name	Corn		Corn	Corn	Corn	Corn		
Pest Type	W, Weed		W, Weed	W, Weed	W, Weed	W, Weed		
Pest Code	AMATU		AMATU	AMATU	AMATU	AMBTR		
Pest Scientific Name	Amaranthus tube>		Amaranthus tube>	Amaranthus tube>	Amaranthus tube>	Ambrosia trifida		
Pest Name	tall waterhemp		tall waterhemp	tall waterhemp	tall waterhemp	Giant ragweed		
Rating Timing	14 DA-B		14/28 DAC/B	28/42 DAC/B	42 DAC	14 DA-B		
ARM Action Codes	EC		EC	EC	EC	EC		
Trt No.	Treatment Name	Rate	Appl Code	4*	12*	16*	20*	5*
1	RESICORE XL AATREX	3 qt/a 1 qt/a	A A	100.0 a	100.0 a	98.3 a	98.3 a	96.5 a
2	RESICORE XL AATREX ROUNDUP POWERMAX 3 PRIME OIL AMSOL	2 qt/a 1 qt/a 26.7 fl oz/a 0.25 % v/v 2.5 % v/v	B B B B B	100.0 a	100.0 a	100.0 a	100.0 a	97.8 a
3	RESICORE XL KYRO AATREX ROUNDUP POWERMAX 3 PRIME OIL AMSOL	2 qt/a 45 fl oz/a 1 qt/a 26.7 fl oz/a 1 % v/v 2.5 % v/v	A C C C C C	100.0 a	100.0 a	100.0 a	100.0 a	82.5 b
4	SURESTART KYRO ROUNDUP POWERMAX 3 AATREX PRIME OIL AMSOL	32 fl oz/a 45 fl oz/a 26.7 fl oz/a 1 qt/a 1 % v/v 2.5 % v/v	A C C C C C	100.0 a	100.0 a	100.0 a	100.0 a	70.0 c
5	SURPASS NXT KYRO ROUNDUP POWERMAX 3 AATREX PRIME OIL AMSOL	16 fl oz/a 45 fl oz/a 26.7 fl oz/a 1 qt/a 1 % v/v 2.5 % v/v	A C C C C C	100.0 a	100.0 a	100.0 a	100.0 a	0.0 d
6	KEYSTONE NXT KYRO AATREX ACCENT Q PRIME OIL AMSOL	2 qt/a 60 fl oz/a 1 qt/a 1 oz/a 1 % v/v 2.5 % v/v	A C C C C C	100.0 a	100.0 a	100.0 a	100.0 a	70.0 c
7	SURESTART KYRO ROUNDUP POWERMAX 3 AATREX PRIME OIL AMSOL ENLIST ONE	32 fl oz/a 45 fl oz/a 26.7 fl oz/a 1 qt/a 1 % v/v 2.5 % v/v 32 fl oz/a	A C C C C C C	99.5 a	100.0 a	100.0 a	100.0 a	67.5 c

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.

* Adjusted means

Could not calculate LSD (% mean diff) for columns 1,2,3,12,14,18,22 because error mean square = 0.

^Calculated from residual.

Purdue Weed Science

Resicore XL and Kyro Herbicide Programs in Corn

Trial ID: 23-MGS-Corn-01
 Protocol ID: 23-MGS-Corn-01 Location: Meigs Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Dr. Bill Johnson Sponsor Contact: Kevin Johnson
 Investigator: Dr, Bill Johnson

Assessed By	Claudia Bland				
Rating Date	May-30-2023	Jun-14-2023	Jun-29-2023	Jul-12-2023	May-30-2023
Part Rated	PLOT, P				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Rating Min/Max/Interval	0, 100, -	0, 100, -	0, 100, -	0, 100, -	0, 100, -
Crop Type, Code	C, ZEAMX				
Crop Scientific Name	Zea mays				
Crop Name	Corn	Corn	Corn	Corn	Corn
Pest Type	W, Weed				
Pest Code	AMATU	AMATU	AMATU	AMATU	AMBTR
Pest Scientific Name	Amaranthus tube>	Amaranthus tube>	Amaranthus tube>	Amaranthus tube>	Ambrosia trifida
Pest Name	tall waterhemp	tall waterhemp	tall waterhemp	tall waterhemp	Giant ragweed
Rating Timing	14 DA-B	14/28 DAC/B	28/42 DAC/B	42 DAC	14 DA-B
ARM Action Codes	EC	EC	EC	EC	EC
Trt Treatment	4*	12*	16*	20*	5*
No. Name					
Rate					
Appl					
Rate Unit					
Code					
8 UNTREATED	0.0	0.0	0.0	0.0	0.0
LSD P=.05	0.56	.	1.33	1.33	5.51
Standard Deviation	0.38	0.00	0.89	0.89	3.71
CV	0.38	0.0	0.9	0.9	5.36
Levene's Prob(F)	0.731	.	0.021*	0.021*	0.658
P(Shapiro-Wilk)^	0.0*	.	0.0*	0.0*	0.0423*
P(Skewness)^	0.0*	.	0.0034*	0.0034*	0.0845
P(Kurtosis)^	0.0*	.	0.0*	0.0*	0.9684
Replicate F	1.000	0.000	1.000	1.000	1.796
Replicate Prob(F)	0.4155	1.0000	0.4155	0.4155	0.1841
Treatment F	1.000	0.000	2.194	2.194	316.428
Treatment Prob(F)	0.4552	1.0000	0.0918	0.0918	0.0001

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.
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 1,2,3,12,14,18,22 because error mean square = 0.
 ^Calculated from residual.

Purdue Weed Science

Resicore XL and Kyro Herbicide Programs in Corn

Trial ID: 23-MGS-Corn-01
 Protocol ID: 23-MGS-Corn-01 Location: Meigs Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Dr. Bill Johnson Sponsor Contact: Kevin Johnson
 Investigator: Dr. Bill Johnson

Assessed By			Claudia Bland	Claudia Bland	Claudia Bland	Claudia Bland	Claudia Bland	
Rating Date			Jun-14-2023	Jun-29-2023	Jul-12-2023	May-30-2023	Jun-14-2023	
Part Rated			PLOT, P	PLOT, P	PLOT, P	PLOT, P	PLOT, P	
Rating Type			CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	
Rating Unit			%	%	%	%	%	
Rating Min/Max/Interval			0, 100, -	0, 100, -	0, 100, -	0, 100, -	0, 100, -	
Crop Type, Code			C, ZEAMX	C, ZEAMX	C, ZEAMX	C, ZEAMX	C, ZEAMX	
Crop Scientific Name			Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	
Crop Name			Corn	Corn	Corn	Corn	Corn	
Pest Type			W, Weed	W, Weed	W, Weed	W, Weed	W, Weed	
Pest Code			AMBTR	AMBTR	AMBTR	ECHCG	ECHCG	
Pest Scientific Name			Ambrosia trifida	Ambrosia trifida	Ambrosia trifida	Echinochloa cru>	Echinochloa cru>	
Pest Name			Giant ragweed	Giant ragweed	Giant ragweed	common barnyard>	common barnyard>	
Rating Timing			14/28 DAC/B	28/42 DAC/B	42 DAC	14 DA-B	14/28 DAC/B	
ARM Action Codes			EC	EC	EC	EC	EC	
Trt No.	Treatment Name	Rate Unit	Appl Code	11*	15*	19*	6*	13*
1	RESICORE XL AATREX	3 qt/a 1 qt/a	A A	92.5 c	91.3 b	91.3 b	100.0 a	100.0 a
2	RESICORE XL AATREX ROUNDUP POWERMAX 3 PRIME OIL AMSOL	2 qt/a 1 qt/a 26.7 fl oz/a 0.25 % v/v 2.5 % v/v	B B B B B	92.5 c	92.5 b	92.5 b	100.0 a	99.0 b
3	RESICORE XL KYRO AATREX ROUNDUP POWERMAX 3 PRIME OIL AMSOL	2 qt/a 45 fl oz/a 1 qt/a 26.7 fl oz/a 1 % v/v 2.5 % v/v	A C C C C C	98.3 ab	100.0 a	100.0 a	100.0 a	100.0 a
4	SURESTART KYRO ROUNDUP POWERMAX 3 AATREX PRIME OIL AMSOL	32 fl oz/a 45 fl oz/a 26.7 fl oz/a 1 qt/a 1 % v/v 2.5 % v/v	A C C C C C	100.0 a	100.0 a	100.0 a	100.0 a	100.0 a
5	SURPASS NXT KYRO ROUNDUP POWERMAX 3 AATREX PRIME OIL AMSOL	16 fl oz/a 45 fl oz/a 26.7 fl oz/a 1 qt/a 1 % v/v 2.5 % v/v	A C C C C C	98.0 ab	100.0 a	100.0 a	100.0 a	100.0 a
6	KEYSTONE NXT KYRO AATREX ACCENT Q PRIME OIL AMSOL	2 qt/a 60 fl oz/a 1 qt/a 1 oz/a 1 % v/v 2.5 % v/v	A C C C C C	96.3 b	100.0 a	100.0 a	100.0 a	100.0 a
7	SURESTART KYRO ROUNDUP POWERMAX 3 AATREX PRIME OIL AMSOL ENLIST ONE	32 fl oz/a 45 fl oz/a 26.7 fl oz/a 1 qt/a 1 % v/v 2.5 % v/v 32 fl oz/a	A C C C C C C	97.0 ab	100.0 a	100.0 a	75.0 a	100.0 a

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.
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 1,2,3,12,14,18,22 because error mean square = 0.
 ^Calculated from residual.

Purdue Weed Science

Resicore XL and Kyro Herbicide Programs in Corn

Trial ID: 23-MGS-Corn-01
 Protocol ID: 23-MGS-Corn-01 Location: Meigs Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Dr. Bill Johnson Sponsor Contact: Kevin Johnson
 Investigator: Dr, Bill Johnson

Assessed By	Claudia Bland						
Rating Date	Jun-14-2023	Jun-29-2023	Jul-12-2023	May-30-2023	Jun-14-2023		
Part Rated	PLOT, P						
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%		
Rating Min/Max/Interval	0, 100, -	0, 100, -	0, 100, -	0, 100, -	0, 100, -		
Crop Type, Code	C, ZEAMX						
Crop Scientific Name	Zea mays						
Crop Name	Corn	Corn	Corn	Corn	Corn		
Pest Type	W, Weed						
Pest Code	AMBTR	AMBTR	AMBTR	ECHCG	ECHCG		
Pest Scientific Name	Ambrosia trifida	Ambrosia trifida	Ambrosia trifida	Echinochloa cru>	Echinochloa cru>		
Pest Name	Giant ragweed	Giant ragweed	Giant ragweed	common barnyard>	common barnyard>		
Rating Timing	14/28 DAC/B	28/42 DAC/B	42 DAC	14 DA-B	14/28 DAC/B		
ARM Action Codes	EC	EC	EC	EC	EC		
Trt Treatment No. Name	Rate	Appl	11*	15*	19*	6*	13*
Rate Unit	Code						
8 UNTREATED			0.0	0.0	0.0	0.0	0.0
LSD P=.05			3.34	2.24	2.24	28.07	0.65
Standard Deviation			2.25	1.51	1.51	18.90	0.44
CV			2.33	1.55	1.55	19.6	0.44
Levene's Prob(F)			0.259	0.009*	0.009*	0.731	0.00*
P(Shapiro-Wilk)^			0.3093	0.0006*	0.0006*	0.0*	0.0*
P(Skewness)^			0.322	0.0908	0.0908	0.0*	1.0
P(Kurtosis)^			0.5465	0.0087*	0.0087*	0.0*	0.0038*
Replicate F			0.840	0.391	0.391	1.000	1.000
Replicate Prob(F)			0.4894	0.7607	0.7607	0.4155	0.4155
Treatment F			6.574	27.783	27.783	1.000	3.000
Treatment Prob(F)			0.0008	0.0001	0.0001	0.4552	0.0327

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.
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 1,2,3,12,14,18,22 because error mean square = 0.
 ^Calculated from residual.

Purdue Weed Science

Resicore XL and Kyro Herbicide Programs in Corn

Trial ID: 23-MGS-Corn-01
 Protocol ID: 23-MGS-Corn-01 Location: Meigs Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Dr. Bill Johnson Sponsor Contact: Kevin Johnson
 Investigator: Dr, Bill Johnson

Assessed By	Claudia Bland		Claudia Bland	Claudia Bland	Claudia Bland	
Rating Date	Jun-29-2023		Jul-12-2023	May-30-2023	Jun-14-2023	
Part Rated	PLOT, P		PLOT, P	PLOT, P	PLOT, P	
Rating Type	CONTRO		CONTRO	CONTRO	CONTRO	
Rating Unit	%		%	%	%	
Rating Min/Max/Interval	0, 100, -		0, 100, -	0, 100, -	0, 100, -	
Crop Type, Code	C, ZEAMX		C, ZEAMX	C, ZEAMX	C, ZEAMX	
Crop Scientific Name	Zea mays		Zea mays	Zea mays	Zea mays	
Crop Name	Corn		Corn	Corn	Corn	
Pest Type	W, Weed		W, Weed	W, Weed	W, Weed	
Pest Code	ECHCG		ECHCG	CHEAL	CHEAL	
Pest Scientific Name	Echinochloa cru>		Echinochloa cru>	Chenopodium alb>	Chenopodium alb>	
Pest Name	common barnyard>		common barnyard>	common lambsqua>	common lambsqua>	
Rating Timing	28/42 DAC/B		42 DAC	14 DA-B	14/28 DAC/B	
ARM Action Codes	EC		EC	EC	EC	
Trt Treatment	Rate	Appl	17*	21*	7*	14*
No. Name	Rate Unit	Code				
1 RESICORE XL	3 qt/a	A	97.3 b	97.3 b	100.0 a	100.0 a
AATREX	1 qt/a	A				
2 RESICORE XL	2 qt/a	B	97.3 b	95.0 c	100.0 a	100.0 a
AATREX	1 qt/a	B				
ROUNDUP POWERMAX 3	26.7 fl oz/a	B				
PRIME OIL	0.25 % v/v	B				
AMSOL	2.5 % v/v	B				
3 RESICORE XL	2 qt/a	A	100.0 a	100.0 a	100.0 a	100.0 a
KYRO	45 fl oz/a	C				
AATREX	1 qt/a	C				
ROUNDUP POWERMAX 3	26.7 fl oz/a	C				
PRIME OIL	1 % v/v	C				
AMSOL	2.5 % v/v	C				
4 SURESTART	32 fl oz/a	A	100.0 a	100.0 a	100.0 a	100.0 a
KYRO	45 fl oz/a	C				
ROUNDUP POWERMAX 3	26.7 fl oz/a	C				
AATREX	1 qt/a	C				
PRIME OIL	1 % v/v	C				
AMSOL	2.5 % v/v	C				
5 SURPASS NXT	16 fl oz/a	A	100.0 a	100.0 a	99.5 a	100.0 a
KYRO	45 fl oz/a	C				
ROUNDUP POWERMAX 3	26.7 fl oz/a	C				
AATREX	1 qt/a	C				
PRIME OIL	1 % v/v	C				
AMSOL	2.5 % v/v	C				
6 KEYSTONE NXT	2 qt/a	A	100.0 a	100.0 a	100.0 a	100.0 a
KYRO	60 fl oz/a	C				
AATREX	1 qt/a	C				
ACCENT Q	1 oz/a	C				
PRIME OIL	1 % v/v	C				
AMSOL	2.5 % v/v	C				
7 SURESTART	32 fl oz/a	A	100.0 a	100.0 a	75.0 a	100.0 a
KYRO	45 fl oz/a	C				
ROUNDUP POWERMAX 3	26.7 fl oz/a	C				
AATREX	1 qt/a	C				
PRIME OIL	1 % v/v	C				
AMSOL	2.5 % v/v	C				
ENLIST ONE	32 fl oz/a	C				

Means followed by same letter or symbol do not significantly differ (P=0.05, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 1,2,3,12,14,18,22 because error mean square = 0.
 ^Calculated from residual.

Purdue Weed Science

Resicore XL and Kyro Herbicide Programs in Corn

Trial ID: 23-MGS-Corn-01
 Protocol ID: 23-MGS-Corn-01 Location: Meigs Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Dr. Bill Johnson Sponsor Contact: Kevin Johnson
 Investigator: Dr, Bill Johnson

Assessed By	Claudia Bland	Claudia Bland	Claudia Bland	Claudia Bland
Rating Date	Jun-29-2023	Jul-12-2023	May-30-2023	Jun-14-2023
Part Rated	PLOT, P	PLOT, P	PLOT, P	PLOT, P
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Rating Min/Max/Interval	0, 100, -	0, 100, -	0, 100, -	0, 100, -
Crop Type, Code	C, ZEAMX	C, ZEAMX	C, ZEAMX	C, ZEAMX
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn
Pest Type	W, Weed	W, Weed	W, Weed	W, Weed
Pest Code	ECHCG	ECHCG	CHEAL	CHEAL
Pest Scientific Name	Echinochloa cru>	Echinochloa cru>	Chenopodium alb>	Chenopodium alb>
Pest Name	common barnyard>	common barnyard>	common lambsqua>	common lambsqua>
Rating Timing	28/42 DAC/B	42 DAC	14 DA-B	14/28 DAC/B
ARM Action Codes	EC	EC	EC	EC
Trt Treatment	17*	21*	7*	14*
No. Name				
Rate				
Appl				
Rate Unit				
Code				
8 UNTREATED	0.0	0.0	0.0	0.0
LSD P=.05	1.22	0.84	28.11	.
Standard Deviation	0.82	0.57	18.92	0.00
CV	0.83	0.57	19.64	0.0
Levene's Prob(F)	0.704	0.731	0.73	.
P(Shapiro-Wilk)^	0.0*	0.0*	0.0*	.
P(Skewness)^	0.0004*	0.0*	0.0*	.
P(Kurtosis)^	0.0*	0.0*	0.0*	.
Replicate F	0.632	1.000	0.984	0.000
Replicate Prob(F)	0.6041	0.4155	0.4222	1.0000
Treatment F	10.614	49.741	0.991	0.000
Treatment Prob(F)	0.0001	0.0001	0.4604	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.
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 1,2,3,12,14,18,22 because error mean square = 0.
 ^Calculated from residual.

Purdue Weed Science

Resicore XL and Kyro Herbicide Programs in Corn

Trial ID: 23-MGS-Corn-01
 Protocol ID: 23-MGS-Corn-01 Location: Meigs Trial Year: 2023
 Project ID: Project ID 2: Project ID 3:
 Study Director: Dr. Bill Johnson Sponsor Contact: Kevin Johnson
 Investigator: Dr, Bill Johnson

Assessed By			Claudia Bland	Claudia Bland	
Rating Date			Jun-29-2023	Jul-12-2023	
Part Rated			PLOT, P	PLOT, P	
Rating Type			CONTRO	CONTRO	
Rating Unit			%	%	
Rating Min/Max/Interval			0, 100, -	0, 100, -	
Crop Type, Code			C, ZEAMX	C, ZEAMX	
Crop Scientific Name			Zea mays	Zea mays	
Crop Name			Corn	Corn	
Pest Type			W, Weed	W, Weed	
Pest Code			CHEAL	CHEAL	
Pest Scientific Name			Chenopodium alb>	Chenopodium alb>	
Pest Name			common lambsqua>	common lambsqua>	
Rating Timing			28/42 DAC/B	42 DAC	
ARM Action Codes			EC	EC	
Trt No.	Treatment Name	Rate Unit	Appl Code	18*	22*
1	RESICORE XL AATREX	3 qt/a 1 qt/a	A A	100.0 a	100.0 a
2	RESICORE XL AATREX ROUNDUP POWERMAX 3 PRIME OIL AMSOL	2 qt/a 1 qt/a 26.7 fl oz/a 0.25 % v/v 2.5 % v/v	B B B B B	100.0 a	100.0 a
3	RESICORE XL KYRO AATREX ROUNDUP POWERMAX 3 PRIME OIL AMSOL	2 qt/a 45 fl oz/a 1 qt/a 26.7 fl oz/a 1 % v/v 2.5 % v/v	A C C C C C	100.0 a	100.0 a
4	SURESTART KYRO ROUNDUP POWERMAX 3 AATREX PRIME OIL AMSOL	32 fl oz/a 45 fl oz/a 26.7 fl oz/a 1 qt/a 1 % v/v 2.5 % v/v	A C C C C C	100.0 a	100.0 a
5	SURPASS NXT KYRO ROUNDUP POWERMAX 3 AATREX PRIME OIL AMSOL	16 fl oz/a 45 fl oz/a 26.7 fl oz/a 1 qt/a 1 % v/v 2.5 % v/v	A C C C C C	100.0 a	100.0 a
6	KEYSTONE NXT KYRO AATREX ACCENT Q PRIME OIL AMSOL	2 qt/a 60 fl oz/a 1 qt/a 1 oz/a 1 % v/v 2.5 % v/v	A C C C C C	100.0 a	100.0 a
7	SURESTART KYRO ROUNDUP POWERMAX 3 AATREX PRIME OIL AMSOL ENLIST ONE	32 fl oz/a 45 fl oz/a 26.7 fl oz/a 1 qt/a 1 % v/v 2.5 % v/v 32 fl oz/a	A C C C C C C	100.0 a	100.0 a

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.
 * Adjusted means
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 ^Calculated from residual.

Purdue Weed Science

Resicore XL and Kyro Herbicide Programs in Corn

Trial ID: 23-MGS-Corn-01
Protocol ID: 23-MGS-Corn-01 Location: Meigs Trial Year: 2023
Project ID: Project ID 2: Project ID 3:
Study Director: Dr. Bill Johnson Sponsor Contact: Kevin Johnson
Investigator: Dr, Bill Johnson

Part Rated

PLOT = plot

P = Pest is Part Rated

Rating Type

PHYGEN = phytotoxicity - general / injury

CONTRO = control / burndown or knockdown

Rating Unit

%, 0, 100, = percent

Crop Type, Code

C = EPPO species (Bayer) codes

ZEAMX, BCOR, Zea mays, Corn = US

Pest Type

W, Weed = Weed or volunteer crop

Pest Code

AMATU, Amaranthus tuberculatus, tall waterhemp = US

AMBTR, Ambrosia trifida, Giant ragweed = US

ECHCG, Echinochloa crus-galli, common barnyardgrass = US

CHEAL, Chenopodium album, common lambsquarters = US

ARM Action Codes

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