

Purdue University Weed Science

Evaluate tank-mixes of Impact CORE with atrazine, DiFlexx, Hornet or clopyralid for early post residual control of giant ragweed

Trial ID: 22S-TPAC-CORN-10 Cooperator Trial ID:
 Protocol ID: 22S-TPAC-CORN-10 Location: TPAC Trial Year: 2022
 Project ID: 22D12H025 Project ID 2: Project ID 3:
 Study Director: Brent Mansfield Sponsor Contact: Dan Kunkel - AMVAC
 Investigator (Creator): Dr. Bill Johnson

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:** CONTIL conventional-till
Replications: 4 **Treatments:** 12 **Plots:** 48 **Study Design:** RACOB� Randomized Complete Block (RCB)

Field Prep./Maintenance:

180 lbs of N applied as Anhydrous Ammonia on 11/23/21

Soil Description

Description Name: TPAC- Field 4AW
% Sand: 17 **% OM:** 3.1 **Texture:** SIL silt loam
% Silt: 56 **Soil Name:** Toronto-Millbrook
% Clay: 27 **Fert. Level:** G good
pH: 6.2 **CEC:** 11.5

No.	Date	Moisture Total	Unit	Min Temp	Max Temp	Avg Temp	Temp Unit
1.	May-1-2022	0	IN	51.1	63.7	55.8	F
2.	May-2-2022	0	IN	43.2	66	55.4	F
3.	May-3-2022	0.71	IN	46	67.8	57.4	F
4.	May-4-2022	0	IN	46	61.5	53.6	F
5.	May-5-2022	0.66	IN	53.6	56.7	54.7	F
6.	May-6-2022	0.07	IN	51.8	57.2	55.2	F
7.	May-7-2022	0	IN	48.7	68.2	58.1	F
8.	May-8-2022	0	IN	44.6	68.7	58.5	F
9.	May-9-2022	0	IN	52.9	81	67.5	F
10.	May-10-2022	0	IN	66.6	88.9	76.6	F
11.	May-11-2022	0	IN	73	92.3	81.5	F
12.	May-12-2022	0	IN	67.8	90	78.1	F
13.	May-13-2022	0	IN	61.9	89.6	76.8	F
14.	May-14-2022	0.74	IN	59.7	88.2	70.7	F
15.	May-15-2022	1.02	IN	57	86.2	67.6	F
16.	May-16-2022	0.01	IN	52.7	76.8	64.6	F
17.	May-17-2022	0	IN	53.4	77.7	66	F
18.	May-18-2022	0.1	IN	57.9	66.9	62.8	F
19.	May-19-2022	0	IN	59.7	82.2	69.6	F
20.	May-20-2022	0	IN	66.4	86.9	77.2	F
21.	May-21-2022	0.1	IN	58.3	77.7	66.7	F
22.	May-22-2022	0	IN	53.2	64.6	58.3	F
23.	May-23-2022	0	IN	48.4	68.7	58.3	F
24.	May-24-2022	0	IN	50.2	75.6	63.7	F
25.	May-25-2022	0.05	IN	61.7	85.6	70.7	F
26.	May-26-2022	1.68	IN	60.8	75.4	67.5	F
27.	May-27-2022	0.03	IN	53.4	67.8	59.9	F
28.	May-28-2022	0	IN	51.6	73.2	63	F
29.	May-29-2022	0	IN	59.5	82.9	71.4	F
30.	May-30-2022	0	IN	67.1	88.5	77.7	F
31.	May-31-2022	0	IN	71.6	89.4	79.7	F
32.	Jun-1-2022	0	IN	66	81	74.7	F
33.	Jun-2-2022	0.01	IN	61.3	79.9	69.8	F
34.	Jun-3-2022	0	IN	54.1	84.2	70.5	F
35.	Jun-4-2022	0	IN	51.4	84.2	70.3	F
36.	Jun-5-2022	0	IN	56.8	85.3	73	F
37.	Jun-6-2022	0	IN	64	85.8	73.8	F
38.	Jun-7-2022	0	IN	62.2	77.9	70	F

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Evaluate tank-mixes of Impact CORE with atrazine, DiFlexx, Hornet or clopyralid for early post residual control of giant ragweed

Trial ID: 22S-TPAC-CORN-10

Cooperator Trial ID:

Protocol ID: 22S-TPAC-CORN-10 Location: TPAC

Trial Year: 2022

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39.	Jun-8-2022	0.02	IN	55.2	77.5	64.6	F
40.	Jun-9-2022	0	IN	56.7	78.8	66.7	F
41.	Jun-10-2022	0.1	IN	54	79.7	66	F
42.	Jun-11-2022	0.23	IN	58.5	79.7	68.2	F
43.	Jun-12-2022	0.02	IN	65.8	84	73.8	F
44.	Jun-13-2022	0	IN	68.7	91	79.3	F
45.	Jun-14-2022	0	IN	74.8	95.5	85.8	F
46.	Jun-15-2022	0	IN	75	94.6	85.5	F
47.	Jun-16-2022	0	IN	76.6	97.3	86	F
48.	Jun-17-2022	0	IN	69.1	88.2	79.2	F
49.	Jun-18-2022	0	IN	60.8	82.2	70.3	F
50.	Jun-19-2022	0	IN	52.2	83.8	70.3	F
51.	Jun-20-2022	0	IN	57.4	90.1	75.4	F
52.	Jun-21-2022	0	IN	63.9	96.3	81.7	F
53.	Jun-22-2022	0	IN	72	90.3	81.5	F
54.	Jun-23-2022	0	IN	62.4	89.1	76.6	F
55.	Jun-24-2022	0	IN	59	93	76.6	F
56.	Jun-25-2022	0.01	IN	63.9	82.6	74.3	F
57.	Jun-26-2022	0.22	IN	64.2	81.5	74.1	F
58.	Jun-27-2022	0	IN	54.7	79.3	68.4	F
59.	Jun-28-2022	0	IN	55.2	82.9	69.8	F
60.	Jun-29-2022	0	IN	57.6	87.3	73.9	F
61.	Jun-30-2022	0	IN	61	90.5	77.4	F
62.	Jul-1-2022	0	IN	68.5	90.7	77.5	F
63.	Jul-2-2022	0	IN	66.6	86.4	76.3	F
64.	Jul-3-2022	0	IN	57.6	89.8	75.9	F
65.	Jul-4-2022	0.01	IN	64.6	91.4	79	F
66.	Jul-5-2022	0	IN	77.2	98.2	87.3	F
67.	Jul-6-2022	0	IN	74.3	90	81.9	F
68.	Jul-7-2022	0.05	IN	70.3	84.7	77	F
69.	Jul-8-2022	0.23	IN	70	76.3	72.5	F
70.	Jul-9-2022	0	IN	67.5	84.6	74.1	F
71.	Jul-10-2022	0	IN	57.9	90.7	73.4	F
72.	Jul-11-2022	0	IN	59.5	88	75.9	F
73.	Jul-12-2022	0	IN	67.6	83.8	76.1	F
74.	Jul-13-2022	0	IN	62.8	86.5	75	F
75.	Jul-14-2022	0	IN	57.4	84.9	72.5	F
76.	Jul-15-2022	0.1	IN	58.1	77.4	68.2	F
77.	Jul-16-2022	0.49	IN	69.6	89.4	79	F
78.	Jul-17-2022	0.47	IN	68.9	76.3	72.7	F
79.	Jul-18-2022	0	IN	68.9	87.6	75.6	F
80.	Jul-19-2022	0	IN	64.2	87.4	77	F
81.	Jul-20-2022	0	IN	72	90	80.1	F
82.	Jul-21-2022	0	IN	66.4	88.7	77.7	F
83.	Jul-22-2022	0	IN	68.4	89.6	78.8	F
84.	Jul-23-2022	0	IN	69.8	77.4	73.4	F
85.	Jul-24-2022	0.18	IN	73.6	84.6	78.3	F
86.	Jul-25-2022	0	IN	64.9	83.8	73.9	F
87.	Jul-26-2022	0	IN	65.5	75.4	70	F
88.	Jul-27-2022	0.22	IN	69.3	83.1	74.7	F
89.	Jul-28-2022	0.09	IN	65.3	85.6	75	F
90.	Jul-29-2022	0	IN	57.9	80.1	69.6	F
91.	Jul-30-2022	0	IN	57	86.4	71.8	F

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92.	Jul-31-2022	0	IN	59.7	84.6	73.8	F
93.	Aug-1-2022	0.53	IN	67.5	86.5	76.1	F
94.	Aug-2-2022	0	IN	65.8	85.1	73.8	F
95.	Aug-3-2022	0.58	IN	68.9	90.5	76.8	F
96.	Aug-4-2022	0.01	IN	70	85.5	75.9	F
97.	Aug-5-2022	0	IN	69.1	89.2	77.2	F
98.	Aug-6-2022	0	IN	70.2	89.8	79.5	F
99.	Aug-7-2022	0	IN	73.4	88.7	80.1	F
100.	Aug-8-2022	0.24	IN	69.8	86.9	79.3	F
101.	Aug-9-2022	0.39	IN	64.8	80.1	70.3	F
102.	Aug-10-2022	0	IN	62.2	83.1	72	F
103.	Aug-11-2022	0	IN	59	84	71.2	F
104.	Aug-12-2022	0	IN	57.4	77.5	67.6	F
105.	Aug-13-2022	0	IN	55.2	78.4	68.2	F
106.	Aug-14-2022	0.07	IN	66.2	76.8	70.5	F
107.	Aug-15-2022	0	IN	64.9	79.5	70.5	F
108.	Aug-16-2022	0	IN	59	82.9	71.6	F
109.	Aug-17-2022	0	IN	56.1	83.8	70.3	F
110.	Aug-18-2022	0	IN	55.8	86.2	70.5	F
111.	Aug-19-2022	0	IN	58.8	85.3	72.3	F
112.	Aug-20-2022	0.29	IN	65.1	82.4	71.6	F
113.	Aug-21-2022	0.58	IN	63.3	81.1	70.9	F
114.	Aug-22-2022	0	IN	60.3	84.7	70.2	F
115.	Aug-23-2022	0	IN	55.8	85.3	70	F
116.	Aug-24-2022	0	IN	56.3	87.1	71.4	F
117.	Aug-25-2022	0.25	IN	66.2	80.8	73.6	F
118.	Aug-26-2022	0	IN	62.2	83.1	72.5	F
119.	Aug-27-2022	0	IN	59.2	85.6	72.1	F
120.	Aug-28-2022	0.14	IN	67.5	89.6	77.7	F
121.	Aug-29-2022	2.2	IN	65.8	87.4	74.5	F
122.	Aug-30-2022	0.3	IN	60.8	79.9	71.1	F
123.	Aug-31-2022	0	IN	53.4	81.1	68	F
124.	Sep-1-2022	0	IN	59	84	71.8	F
125.	Sep-2-2022	0	IN	64.2	83.3	73	F
126.	Sep-3-2022	0	IN	66.9	81.7	73.6	F
127.	Sep-4-2022	0	IN	66.6	82	73.2	F
128.	Sep-5-2022	0	IN	66.9	74.1	70	F
129.	Sep-6-2022	0	IN	63.7	82.9	71.2	F
130.	Sep-7-2022	0	IN	59.4	82.4	69.6	F
131.	Sep-8-2022	0	IN	52.9	82.4	68.2	F
132.	Sep-9-2022	0	IN	54.1	84.2	69.1	F
133.	Sep-10-2022	0.05	IN	60.8	88.9	73	F
134.	Sep-11-2022	0.2	IN	59.4	74.1	67.6	F
135.	Sep-12-2022	0.14	IN	51.6	62.8	57.4	F
136.	Sep-13-2022	0	IN	53.1	75	62.2	F
137.	Sep-14-2022	0	IN	52	86.5	67.6	F
138.	Sep-15-2022	0	IN	54.7	86.9	69.3	F
139.	Sep-16-2022	0	IN	57.4	84.6	70.2	F
140.	Sep-17-2022	0	IN	63.3	85.3	72.9	F
141.	Sep-18-2022	0	IN	63.3	86.9	74.3	F
142.	Sep-19-2022	0.24	IN	62.4	87.4	73.9	F
143.	Sep-20-2022	0	IN	59.2	92.3	75.2	F
144.	Sep-21-2022	0	IN	68.9	91.9	79.5	F

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145.	Sep-22-2022	0	IN	46.6	69.6	60.1	F
146.	Sep-23-2022	0	IN	40.5	63.3	53.4	F
147.	Sep-24-2022	0.09	IN	51.6	78.4	63.9	F
148.	Sep-25-2022	0	IN	54.3	71.1	62.4	F
149.	Sep-26-2022	0	IN	44.1	68.4	56.8	F
150.	Sep-27-2022	0	IN	39.6	64.9	50.9	F
151.	Sep-28-2022	0	IN	37.4	66	51.8	F
152.	Sep-29-2022	0	IN	38.7	69.3	53.4	F
153.	Sep-30-2022	0	IN	39.2	70.2	54.9	F
154.	Oct-1-2022	0	IN	43.9	75.4	59.4	F
155.	Oct-2-2022	0	IN	48.6	74.3	59.4	F
156.	Oct-3-2022	0	IN	41.7	72.5	54.5	F
157.	Oct-4-2022	0	IN	34.2	77.5	54.1	F
158.	Oct-5-2022	0	IN	38.1	79.9	58.3	F
159.	Oct-6-2022	0.01	IN	53.4	77.5	63.7	F
160.	Oct-7-2022	0	IN	36.9	61.2	51.4	F
161.	Oct-8-2022	0	IN	30.2	58.8	43.9	F
162.	Oct-9-2022	0	IN	34.5	70.3	52.2	F
163.	Oct-10-2022	0	IN	40.5	77.5	59	F
164.	Oct-11-2022	0.1	IN	54.3	69.8	61.7	F
165.	Oct-12-2022	0.07	IN	43.5	68	59	F
166.	Oct-13-2022	0.07	IN	32.9	59.9	47.7	F
167.	Oct-14-2022	0.22	IN	33.3	65.1	50	F

Application Description

	A
Application Date	May-24-2022
Appl. Start Time	8:47 AM
Appl. Stop Time	9:15 AM
Application Method	SPRAY
Application Timing	V1-V2 CORN
Application Placement	BROFOL
Applied By	J. HAARMANN
Appl. Entry Date	Jun-17-2022
Air Temperature Start, Stop	51, 51 F
% Relative Humidity Start, Stop	46, 46
Wind Velocity+Dir. Start	3 MPH, S
Wind Velocity+Dir. Stop	3 MPH, S
Wind Velocity+Dir. Max	7 MPH, S
Wet Leaves (Y/N)	N, no
Soil Temperature	80 F
Soil Moisture	NORMAL
% Cloud Cover	5

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale	ZEAMX, BCOR
Days after Emergence	5
Stage Majority, Percent	V1, -
Stage Minimum, Percent	V1, -
Stage Maximum, Percent	V1, -
Height Average	2.5 IN

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Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale	AMBTR, W, BBCH
Height Average	1.5 IN
Height Minimum, Maximum	0.5, 2.5
Density Average	5 FT2
Density Minimum, Maximum	1, 9
Pest 2 Code, Type, Scale	GRASS, W, BBCH
Height Average	0.5 IN
Height Minimum, Maximum	0.5, 1.5
Density Average	1 FT2
Density Minimum, Maximum	0, 3

Application Equipment

	A
Appl. Equipment	CO2 BACKPACK
Equipment Type	BACSPR
Operation Pressure	20 PSI
Nozzle Model	XR
Nozzle Type	FLAEVE
Nozzle TradeName	TEEJET
Nozzle Tip Size, Color	8002, GREEN
Nozzle Spacing	20 IN
Nozzles/Row	4
Boom Length	6.67 FT
Ground Speed	3 MPH
Carrier	WATER
Application Amount	15 GAL/AC
Mix Size	1119.0 mL
Propellant	COMCO2

Notes

Context	Date	By	Notes
STATUS	May-23-2022	Dr. Bill Johnson	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	Jun-17-2022	Dr. Bill Johnson	Automatically added by ARM: Trial Status changed to: E: changed by (EINJOW).
STATUS	Jun-17-2022	Dr. Bill Johnson	Automatically added by ARM: Trial Status updated to 'E' when Initiation Date entered.

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Pest Type			W, Weed AMBTR	W, Weed ECHCG	W, Weed AMBTR			
Pest Code			Ambrosia trifida	Echinochloa cru>	Ambrosia trifida			
Pest Scientific Name			Giant ragweed	common barnyard>	Giant ragweed			
Pest Name								
Crop Type, Code	C, ZEAMX	C, ZEAMX						
BBCH Scale	BCOR	BCOR						
Crop Scientific Name	Zea mays	Zea mays						
Crop Name	Corn	Corn						
Rating Date	May-31-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022	Jun-21-2022			
Part Rated	PLOT, C	PLOT, C	PLOT, P	PLOT, P	PLOT, P			
Rating Type	PHYGEN	PHYGEN	CONTRO	CONTRO	CONTRO			
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100			
Sample Size								
Number of Subsamples	1	1	1	1	1			
Assessed By								
Data Entry Date	Jul-22-2022	Jul-22-2022	Jul-22-2022	Jul-22-2022	Jul-22-2022			
Rating Timing	7 DAA	14 DAA	14 DAA	14 DAA	28 DAA			
Days After First/Last Applic.	7, 7	14, 14	14, 14	14, 14	28, 28			
Trt-Eval Interval	7 DA-A	14 DA-A	14 DA-A	14 DA-A	28 DA-A			
Plant-Eval Interval	19 DP-1	26 DP-1	26 DP-1	26 DP-1	40 DP-1			
Days After Emergence	12 DE-1	19 DE-1	19 DE-1	19 DE-1	33 DE-1			
ARM Action Codes								
Number of Decimals								
Trt No.	Treatment Name	Rate	Appl Code	1	2	3	4	5
		Rate Unit						
1	IMPACT CORE	30 fl oz/a	A	4.0 a-d	1.5 -	95.0 -	100.0 -	90.0 c
	ROUNDUP POWERMAX	21.3 fl oz/a	A					
	ACTIVATOR 90	0.25 % v/v	A					
	AMSOL	4.9 % v/v	A					
2	IMPACT CORE	30 fl oz/a	A	5.5 ab	1.8 -	95.0 -	100.0 -	88.8 c
	ATRAZINE	1 qt/a	A					
	ROUNDUP POWERMAX	21.3 fl oz/a	A					
	ACTIVATOR 90	0.25 % v/v	A					
	AMSOL	4.9 % v/v	A					
3	IMPACT CORE	30 fl oz/a	A	6.3 a	2.0 -	95.0 -	100.0 -	90.0 c
	ATRAZINE	2 qt/a	A					
	ROUNDUP POWERMAX	21.3 fl oz/a	A					
	ACTIVATOR 90	0.25 % v/v	A					
	AMSOL	4.9 % v/v	A					
4	IMPACT CORE	30 fl oz/a	A	5.0 abc	2.0 -	95.0 -	100.0 -	90.0 c
	HORNET	1 oz wt/a	A					
	ATRAZINE	1 qt/a	A					
	ROUNDUP POWERMAX	21.3 fl oz/a	A					
	ACTIVATOR 90	0.25 % v/v	A					
	AMSOL	4.9 % v/v	A					
5	IMPACT CORE	30 fl oz/a	A	4.5 a-d	1.5 -	95.5 -	100.0 -	91.3 bc
	HORNET	2 oz wt/a	A					
	ATRAZINE	1 qt/a	A					
	ROUNDUP POWERMAX	21.3 fl oz/a	A					
	ACTIVATOR 90	0.25 % v/v	A					
	AMSOL	4.9 % v/v	A					
6	IMPACT CORE	30 fl oz/a	A	3.3 bcd	1.5 -	96.3 -	100.0 -	96.3 a
	HORNET	3 oz wt/a	A					
	ATRAZINE	1 qt/a	A					
	ROUNDUP POWERMAX	21.3 fl oz/a	A					
	ACTIVATOR 90	0.25 % v/v	A					
	AMSOL	4.9 % v/v	A					
7	IMPACT CORE	30 fl oz/a	A	3.8 bcd	1.5 -	95.0 -	100.0 -	90.0 c
	HORNET	3 oz wt/a	A					
	ROUNDUP POWERMAX	21.3 fl oz/a	A					
	ACTIVATOR 90	0.25 % v/v	A					
	AMSOL	4.9 % v/v	A					
8	IMPACT CORE	30 fl oz/a	A	5.5 ab	1.5 -	95.0 -	100.0 -	90.0 c
	HORNET	4 oz wt/a	A					
	ROUNDUP POWERMAX	21.3 fl oz/a	A					
	ACTIVATOR 90	0.25 % v/v	A					
	AMSOL	4.9 % v/v	A					

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 Protocol ID: 22S-TPAC-CORN-10 Location: TPAC Trial Year: 2022
 Project ID: 22D12H025 Project ID 2: Project ID 3:
 Study Director: Brent Mansfield Sponsor Contact: Dan Kunkel - AMVAC
 Investigator (Creator): Dr. Bill Johnson

			W, Weed AMBTR Ambrosia trifida Giant ragweed	W, Weed ECHCG Echinochloa cru> common barnyard>	W, Weed AMBTR Ambrosia trifida Giant ragweed		
Pest Type							
Pest Code							
Pest Scientific Name							
Pest Name							
Crop Type, Code	C, ZEAMX	C, ZEAMX					
BBCH Scale	BCOR	BCOR					
Crop Scientific Name	Zea mays	Zea mays					
Crop Name	Corn	Corn					
Rating Date	May-31-2022	Jun-7-2022	Jun-7-2022	Jun-7-2022	Jun-21-2022		
Part Rated	PLOT, C	PLOT, C	PLOT, P	PLOT, P	PLOT, P		
Rating Type	PHYGEN	PHYGEN	CONTR	CONTR	CONTR		
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100	%, 0, 100		
Sample Size							
Number of Subsamples	1	1	1	1	1		
Assessed By							
Data Entry Date	Jul-22-2022	Jul-22-2022	Jul-22-2022	Jul-22-2022	Jul-22-2022		
Rating Timing	7 DAA	14 DAA	14 DAA	14 DAA	28 DAA		
Days After First/Last Applic.	7, 7	14, 14	14, 14	14, 14	28, 28		
Trt-Eval Interval	7 DA-A	14 DA-A	14 DA-A	14 DA-A	28 DA-A		
Plant-Eval Interval	19 DP-1	26 DP-1	26 DP-1	26 DP-1	40 DP-1		
Days After Emergence	12 DE-1	19 DE-1	19 DE-1	19 DE-1	33 DE-1		
ARM Action Codes							
Number of Decimals							
Trt Treatment	Rate	Appl	1	2	3	4	5
No. Name	Rate Unit	Code					
9 IMPACT CORE	30 fl oz/a	A	2.8 cd	1.3 -	95.0 -	100.0 -	91.3 bc
DIFLEXX	8 fl oz/a	A					
ROUNDUP POWERMAX	21.3 fl oz/a	A					
ACTIVATOR 90	0.25 % v/v	A					
AMSOL	4.9 % v/v	A					
10 IMPACT CORE	30 fl oz/a	A	4.3 a-d	2.0 -	95.0 -	100.0 -	95.0 ab
DIFLEXX	16 fl oz/a	A					
ROUNDUP POWERMAX	21.3 fl oz/a	A					
ACTIVATOR 90	0.25 % v/v	A					
AMSOL	4.9 % v/v	A					
11 RESICORE	1.5 qt/a	A	2.3 d	1.0 -	95.0 -	100.0 -	95.5 ab
ROUNDUP POWERMAX	21.3 fl oz/a	A					
ACTIVATOR 90	0.25 % v/v	A					
AMSOL	4.9 % v/v	A					
12 NONTREATED CHECK			0.0	0.0	0.0	0.0	0.0
LSD P=.05			2.25	0.76	1.13	.	4.70
Standard Deviation			1.56	0.52	0.78	0.00	3.25
CV			36.54	32.92	0.82	0.0	3.55
Levene's F^			0.344	5.665*	0.565	.	1.27
Levene's Prob(F)			0.962	0.00*	0.83	.	0.287
Shapiro-Wilk^			0.9931	0.9488*	0.641*	.	0.8723*
P(Shapiro-Wilk)^			0.9953	0.0495*	0.0*	.	0.0002*
Skewness^			-0.1904	-0.3825	2.717*	.	-1.1945*
P(Skewness)^			0.609	0.3064	0.0*	.	0.0024*
Kurtosis^			0.0423	-0.114	14.3717*	.	4.809*
P(Kurtosis)^			0.9537	0.8759	0.0*	.	0.0*
Replicate F			3.605	0.331	1.815	0.000	0.338
Replicate Prob(F)			0.0246	0.8026	0.1657	1.0000	0.7979
Treatment F			2.511	1.508	1.000	0.000	2.630
Treatment Prob(F)			0.0250	0.1849	0.4654	1.0000	0.0197

Purdue University Weed Science

Evaluate tank-mixes of Impact CORE with atrazine, DiFlexx, Hornet or clopyralid for early post residual control of giant ragweed					
Trial ID: 22S-TPAC-CORN-10		Cooperator Trial ID:			
Protocol ID: 22S-TPAC-CORN-10		Location: TPAC		Trial Year: 2022	
Project ID: 22D12H025		Project ID 2:	Project ID 3:		
Study Director: Brent Mansfield		Sponsor Contact: Dan Kunkel - AMVAC			
Investigator (Creator): Dr. Bill Johnson					

Pest Type	W, Weed	W, Weed	W, Weed				
Pest Code	ECHCG	AMBTR	ECHCG				
Pest Scientific Name	Echinochloa cru>	Ambrosia trifida	Echinochloa cru>				
Pest Name	common barnyard>	Giant ragweed	common barnyard>				
Crop Type, Code				C, ZEAMX	C, ZEAMX		
BBCH Scale				BCOR	BCOR		
Crop Scientific Name				Zea mays	Zea mays		
Crop Name				Corn	Corn		
Rating Date	Jun-21-2022	Jul-5-2022	Jul-5-2022	Oct-7-2022	Oct-7-2022		
Part Rated	PLOT, P	PLOT, P	PLOT, P	PLOT, C	PLOT, C		
Rating Type	CONTRO	CONTRO	CONTRO	YIELD	MOICON		
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	lb/plot, -, -	%, 0, 100		
Sample Size				1 PLOT			
Number of Subsamples	1	1	1	1	1		
Assessed By				J. HAARMANN	J. HAARMANN		
Data Entry Date	Jul-22-2022	Jul-22-2022	Jul-22-2022	Oct-19-2022	Oct-19-2022		
Rating Timing	28 DAA	42 DAA	42 DAA	H1	H1		
Days After First/Last Applic.	28, 28	42, 42	42, 42	136, 136	136, 136		
Trt-Eval Interval	28 DA-A	42 DA-A	42 DA-A	136 DA-A	136 DA-A		
Plant-Eval Interval	40 DP-1	54 DP-1	54 DP-1	148 DP-1	148 DP-1		
Days After Emergence	33 DE-1	47 DE-1	47 DE-1	141 DE-1	141 DE-1		
ARM Action Codes							
Number of Decimals							
Trt Treatment	Rate	Appl	6	7	8	9	10
No. Name	Rate Unit	Code					
1 IMPACT CORE	30 fl oz/a	A	93.8 c	81.3 d	86.3 e	25.423 b	18.28 -
ROUNDUP POWERMAX	21.3 fl oz/a	A					
ACTIVATOR 90	0.25 % v/v	A					
AMSOL	4.9 % v/v	A					
2 IMPACT CORE	30 fl oz/a	A	95.0 c	83.8 d	90.0 cd	34.918 a	18.43 -
ATRAZINE	1 qt/a	A					
ROUNDUP POWERMAX	21.3 fl oz/a	A					
ACTIVATOR 90	0.25 % v/v	A					
AMSOL	4.9 % v/v	A					
3 IMPACT CORE	30 fl oz/a	A	96.3 bc	85.0 cd	92.5 bc	36.263 a	19.03 -
ATRAZINE	2 qt/a	A					
ROUNDUP POWERMAX	21.3 fl oz/a	A					
ACTIVATOR 90	0.25 % v/v	A					
AMSOL	4.9 % v/v	A					
4 IMPACT CORE	30 fl oz/a	A	95.5 bc	82.5 d	95.0 ab	35.238 a	18.95 -
HORNET	1 oz wt/a	A					
ATRAZINE	1 qt/a	A					
ROUNDUP POWERMAX	21.3 fl oz/a	A					
ACTIVATOR 90	0.25 % v/v	A					
AMSOL	4.9 % v/v	A					
5 IMPACT CORE	30 fl oz/a	A	95.5 bc	86.3 cd	95.0 ab	35.165 a	19.20 -
HORNET	2 oz wt/a	A					
ATRAZINE	1 qt/a	A					
ROUNDUP POWERMAX	21.3 fl oz/a	A					
ACTIVATOR 90	0.25 % v/v	A					
AMSOL	4.9 % v/v	A					
6 IMPACT CORE	30 fl oz/a	A	100.0 a	96.5 a	98.5 a	35.035 a	18.98 -
HORNET	3 oz wt/a	A					
ATRAZINE	1 qt/a	A					
ROUNDUP POWERMAX	21.3 fl oz/a	A					
ACTIVATOR 90	0.25 % v/v	A					
AMSOL	4.9 % v/v	A					
7 IMPACT CORE	30 fl oz/a	A	94.3 c	81.3 d	86.3 e	37.295 a	18.40 -
HORNET	3 oz wt/a	A					
ROUNDUP POWERMAX	21.3 fl oz/a	A					
ACTIVATOR 90	0.25 % v/v	A					
AMSOL	4.9 % v/v	A					
8 IMPACT CORE	30 fl oz/a	A	94.5 c	86.3 cd	87.5 de	35.773 a	18.98 -
HORNET	4 oz wt/a	A					
ROUNDUP POWERMAX	21.3 fl oz/a	A					
ACTIVATOR 90	0.25 % v/v	A					
AMSOL	4.9 % v/v	A					

Purdue University Weed Science

Evaluate tank-mixes of Impact CORE with atrazine, DiFlexx, Hornet or clopyralid for early post residual control of giant ragweed

Trial ID: 22S-TPAC-CORN-10 Cooperator Trial ID:
 Protocol ID: 22S-TPAC-CORN-10 Location: TPAC Trial Year: 2022
 Project ID: 22D12H025 Project ID 2: Project ID 3:
 Study Director: Brent Mansfield Sponsor Contact: Dan Kunkel - AMVAC
 Investigator (Creator): Dr. Bill Johnson

	W, Weed ECHCG Echinochloa cru> common barnyard>	W, Weed AMBTR Ambrosia trifida Giant ragweed	W, Weed ECHCG Echinochloa cru> common barnyard>		
Pest Type					
Pest Code					
Pest Scientific Name					
Pest Name					
Crop Type, Code				C, ZEAMX	C, ZEAMX
BBCH Scale				BCOR	BCOR
Crop Scientific Name				Zea mays	Zea mays
Crop Name				Corn	Corn
Rating Date	Jun-21-2022	Jul-5-2022	Jul-5-2022	Oct-7-2022	Oct-7-2022
Part Rated	PLOT, P	PLOT, P	PLOT, P	PLOT, C	PLOT, C
Rating Type	CONTRO	CONTRO	CONTRO	YIELD	MOICON
Rating Unit/Min/Max	%, 0, 100	%, 0, 100	%, 0, 100	lb/plot, -, -	%, 0, 100
Sample Size				1 PLOT	
Number of Subsamples	1	1	1	1	1
Assessed By				J. HAARMANN	J. HAARMANN
Data Entry Date	Jul-22-2022	Jul-22-2022	Jul-22-2022	Oct-19-2022	Oct-19-2022
Rating Timing	28 DAA	42 DAA	42 DAA	H1	H1
Days After First/Last Applic.	28, 28	42, 42	42, 42	136, 136	136, 136
Trt-Eval Interval	28 DA-A	42 DA-A	42 DA-A	136 DA-A	136 DA-A
Plant-Eval Interval	40 DP-1	54 DP-1	54 DP-1	148 DP-1	148 DP-1
Days After Emergence	33 DE-1	47 DE-1	47 DE-1	141 DE-1	141 DE-1
ARM Action Codes					
Number of Decimals					
Trt Treatment					
No. Name	6	7	8	9	10
9 IMPACT CORE	89.3 d	90.0 bc	81.3 f	35.458 a	18.73 -
DIFLEXX					
ROUNDUP POWERMAX					
ACTIVATOR 90					
AMSOL					
10 IMPACT CORE	94.3 c	94.3 ab	88.8 de	35.898 a	18.78 -
DIFLEXX					
ROUNDUP POWERMAX					
ACTIVATOR 90					
AMSOL					
11 RESICORE	98.0 ab	95.5 ab	95.0 ab	33.990 a	19.18 -
ROUNDUP POWERMAX					
ACTIVATOR 90					
AMSOL					
12 NONTREATED CHECK	0.0	0.0	0.0	5.485	16.25
LSD P=.05	2.86	5.79	3.52	4.1036	0.939
Standard Deviation	1.98	4.01	2.44	2.8416	0.651
CV	2.08	4.58	2.69	8.22	3.46
Levene's F^	1.066	1.334	2.30*	0.95	1.071
Levene's Prob(F)	0.415	0.254	0.035*	0.503	0.411
Shapiro-Wilk^	0.9445*	0.9586	0.9537	0.9809	0.9787
P(Shapiro-Wilk)^	0.0345*	0.115	0.0755	0.6683	0.5805
Skewness^	-0.5369	-0.6411	-0.5071	0.2366	-0.1269
P(Skewness)^	0.1535	0.09	0.1771	0.5254	0.7329
Kurtosis^	0.6646	1.1895	1.7273*	-0.2688	0.2974
P(Kurtosis)^	0.3647	0.1083	0.0217*	0.7128	0.6839
Replicate F	0.592	0.398	0.327	5.877	0.090
Replicate Prob(F)	0.6248	0.7556	0.8062	0.0028	0.9649
Treatment F	7.328	8.046	17.694	4.926	0.961
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0003	0.4957

Purdue University Weed Science

Evaluate tank-mixes of Impact CORE with atrazine, DiFlexx, Hornet or clopyralid for early post residual control of giant ragweed

Trial ID: 22S-TPAC-CORN-10

Cooperator Trial ID:

Protocol ID: 22S-TPAC-CORN-10 Location: TPAC

Trial Year: 2022

Project ID: 22D12H025 Project ID 2: Project ID 3:

Study Director: Brent Mansfield Sponsor Contact: Dan Kunkel - AMVAC

Investigator (Creator): Dr. Bill Johnson

Pest Type				
Pest Code				
Pest Scientific Name				
Pest Name				
Crop Type, Code				C, ZEAMX
BBCH Scale				BCOR
Crop Scientific Name				Zea mays
Crop Name				Corn
Rating Date				Oct-7-2022
Part Rated				PLOT, C
Rating Type				YIELD
Rating Unit/Min/Max				bu/ac, -, -
Sample Size				1 A
Number of Subsamples				1
Assessed By				J. HAARMANN
Data Entry Date				
Rating Timing				H1
Days After First/Last Applic.				136, 136
Trt-Eval Interval				136 DA-A
Plant-Eval Interval				148 DP-1
Days After Emergence				141 DE-1
ARM Action Codes				TY1
Number of Decimals				1
Trt No.	Treatment Name	Rate	Appl Code	
		Rate Unit		11
1	IMPACT CORE	30 fl oz/a	A	141.7 b
	ROUNDUP POWERMAX	21.3 fl oz/a	A	
	ACTIVATOR 90	0.25 % v/v	A	
	AMSOL	4.9 % v/v	A	
2	IMPACT CORE	30 fl oz/a	A	194.1 a
	ATRAZINE	1 qt/a	A	
	ROUNDUP POWERMAX	21.3 fl oz/a	A	
	ACTIVATOR 90	0.25 % v/v	A	
	AMSOL	4.9 % v/v	A	
3	IMPACT CORE	30 fl oz/a	A	200.3 a
	ATRAZINE	2 qt/a	A	
	ROUNDUP POWERMAX	21.3 fl oz/a	A	
	ACTIVATOR 90	0.25 % v/v	A	
	AMSOL	4.9 % v/v	A	
4	IMPACT CORE	30 fl oz/a	A	194.7 a
	HORNET	1 oz wt/a	A	
	ATRAZINE	1 qt/a	A	
	ROUNDUP POWERMAX	21.3 fl oz/a	A	
	ACTIVATOR 90	0.25 % v/v	A	
	AMSOL	4.9 % v/v	A	
5	IMPACT CORE	30 fl oz/a	A	193.7 a
	HORNET	2 oz wt/a	A	
	ATRAZINE	1 qt/a	A	
	ROUNDUP POWERMAX	21.3 fl oz/a	A	
	ACTIVATOR 90	0.25 % v/v	A	
	AMSOL	4.9 % v/v	A	
6	IMPACT CORE	30 fl oz/a	A	193.5 a
	HORNET	3 oz wt/a	A	
	ATRAZINE	1 qt/a	A	
	ROUNDUP POWERMAX	21.3 fl oz/a	A	
	ACTIVATOR 90	0.25 % v/v	A	
	AMSOL	4.9 % v/v	A	
7	IMPACT CORE	30 fl oz/a	A	207.4 a
	HORNET	3 oz wt/a	A	
	ROUNDUP POWERMAX	21.3 fl oz/a	A	
	ACTIVATOR 90	0.25 % v/v	A	
	AMSOL	4.9 % v/v	A	
8	IMPACT CORE	30 fl oz/a	A	197.6 a
	HORNET	4 oz wt/a	A	
	ROUNDUP POWERMAX	21.3 fl oz/a	A	
	ACTIVATOR 90	0.25 % v/v	A	
	AMSOL	4.9 % v/v	A	

Purdue University Weed Science

Evaluate tank-mixes of Impact CORE with atrazine, DiFlexx, Hornet or clopyralid for early post residual control of giant ragweed
 Trial ID: 22S-TPAC-CORN-10 Cooperator Trial ID:
 Protocol ID: 22S-TPAC-CORN-10 Location: TPAC Trial Year: 2022
 Project ID: 22D12H025 Project ID 2: Project ID 3:
 Study Director: Brent Mansfield Sponsor Contact: Dan Kunkel - AMVAC
 Investigator (Creator): Dr. Bill Johnson

Pest Type	
Pest Code	
Pest Scientific Name	
Pest Name	
Crop Type, Code	C, ZEAMX
BBCH Scale	BCOR
Crop Scientific Name	Zea mays
Crop Name	Corn
Rating Date	Oct-7-2022
Part Rated	PLOT, C
Rating Type	YIELD
Rating Unit/Min/Max	bu/ac, -, -
Sample Size	1 A
Number of Subsamples	1
Assessed By	J. HAARMANN
Data Entry Date	
Rating Timing	H1
Days After First/Last Applic.	136, 136
Trt-Eval Interval	136 DA-A
Plant-Eval Interval	148 DP-1
Days After Emergence	141 DE-1
ARM Action Codes	TY1
Number of Decimals	1
Trt Treatment	Rate
No. Name	Rate Unit Appl Code
9 IMPACT CORE	30 fl oz/a A
DIFLEXX	8 fl oz/a A
ROUNDUP POWERMAX	21.3 fl oz/a A
ACTIVATOR 90	0.25 % v/v A
AMSOL	4.9 % v/v A
10 IMPACT CORE	30 fl oz/a A
DIFLEXX	16 fl oz/a A
ROUNDUP POWERMAX	21.3 fl oz/a A
ACTIVATOR 90	0.25 % v/v A
AMSOL	4.9 % v/v A
11 RESICORE	1.5 qt/a A
ROUNDUP POWERMAX	21.3 fl oz/a A
ACTIVATOR 90	0.25 % v/v A
AMSOL	4.9 % v/v A
12 NONTREATED CHECK	
LSD P=.05	22.02
Standard Deviation	15.24
CV	7.96
Levene's F^	1.09
Levene's Prob(F)	0.397
Shapiro-Wilk^	0.9844
P(Shapiro-Wilk)^	0.8067
Skewness^	0.2731
P(Skewness)^	0.4639
Kurtosis^	-0.1717
P(Kurtosis)^	0.814
Replicate F	6.434
Replicate Prob(F)	0.0017
Treatment F	5.118
Treatment Prob(F)	0.0002

Purdue University Weed Science

Evaluate tank-mixes of Impact CORE with atrazine, DiFlexx, Hornet or clopyralid for early post residual control of giant ragweed

Trial ID: 22S-TPAC-CORN-10

Cooperator Trial ID:

Protocol ID: 22S-TPAC-CORN-10 Location: TPAC

Trial Year: 2022

Project ID: 22D12H025 Project ID 2: Project ID 3:

Study Director: Brent Mansfield

Sponsor Contact: Dan Kunkel - AMVAC

Investigator (Creator): Dr. Bill Johnson

Pest Type

W, Weed = Weed or volunteer crop

Pest Code

AMBTR, Ambrosia trifida, Giant ragweed = US

ECHCG, Echinochloa crus-galli, common barnyardgrass = US

Crop Type Code

C = EPPO species (Bayer) codes

ZEAMX, BCOR, Zea mays, Corn = US

Part Rated

PLOT = plot

C = Crop is Part Rated

P = Pest is Part Rated

Rating Type

PHYGEN = phytotoxicity - general / injury

CONTRO = control / burndown or knockdown

YIELD = yield

MOICON = moisture content

Rating Unit/Min/Max

%, 0, 100 = percent

lb/plot, , = pounds per plot

bu/ac, , = bushels per acre

PLOT = total plot

A = acre

Rating Timing

H1 = 1st Harvest

Plant-Eval Interval

19 DP-1 = 1 ZEAMX May-12-2022

26 DP-1 = 1 ZEAMX May-12-2022

40 DP-1 = 1 ZEAMX May-12-2022

54 DP-1 = 1 ZEAMX May-12-2022

148 DP-1 = 1 ZEAMX May-12-2022

ARM Action Codes

TY1 = 5.76190476*[9]*(100-[10])/84.5

Trt No.	Treatment Type Name	Form Conc	Form Unit	Form Type	Rate Rate	Rate Unit	Appl Code	Rep 1	2	3	4	Notes
1	HERB IMPACT CORE	7.15	LBA/GAL	EC	30	fl oz/a	A	101	304	505	701	
	HERB ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	21.3	fl oz/a	A					
	ADJ ACTIVATOR 90	100	%	L	0.25	% v/v	A					
	ADJ AMSOL	3.4	LBA/GAL	L	4.9	% v/v	A					
2	HERB IMPACT CORE	7.15	LBA/GAL	EC	30	fl oz/a	A	102	404	502	805	
	HERB ATRAZINE	4	LBA/GAL	F	1	qt/a	A					
	HERB ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	21.3	fl oz/a	A					
	ADJ ACTIVATOR 90	100	%	L	0.25	% v/v	A					
	ADJ AMSOL	3.4	LBA/GAL	L	4.9	% v/v	A					
3	HERB IMPACT CORE	7.15	LBA/GAL	EC	30	fl oz/a	A	103	405	503	706	
	HERB ATRAZINE	4	LBA/GAL	F	2	qt/a	A					
	HERB ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	21.3	fl oz/a	A					
	ADJ ACTIVATOR 90	100	%	L	0.25	% v/v	A					
	ADJ AMSOL	3.4	LBA/GAL	L	4.9	% v/v	A					
4	HERB IMPACT CORE	7.15	LBA/GAL	EC	30	fl oz/a	A	104	305	605	704	
	HERB HORNET	68.5	%AW/W	WG	1	oz wt/a	A					
	HERB ATRAZINE	4	LBA/GAL	F	1	qt/a	A					
	HERB ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	21.3	fl oz/a	A					
	ADJ ACTIVATOR 90	100	%	L	0.25	% v/v	A					
	ADJ AMSOL	3.4	LBA/GAL	L	4.9	% v/v	A					
5	HERB IMPACT CORE	7.15	LBA/GAL	EC	30	fl oz/a	A	105	301	506	703	
	HERB HORNET	68.5	%AW/W	WG	2	oz wt/a	A					
	HERB ATRAZINE	4	LBA/GAL	F	1	qt/a	A					
	HERB ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	21.3	fl oz/a	A					
	ADJ ACTIVATOR 90	100	%	L	0.25	% v/v	A					
	ADJ AMSOL	3.4	LBA/GAL	L	4.9	% v/v	A					
6	HERB IMPACT CORE	7.15	LBA/GAL	EC	30	fl oz/a	A	106	302	606	802	
	HERB HORNET	68.5	%AW/W	WG	3	oz wt/a	A					
	HERB ATRAZINE	4	LBA/GAL	F	1	qt/a	A					
	HERB ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	21.3	fl oz/a	A					
	ADJ ACTIVATOR 90	100	%	L	0.25	% v/v	A					
	ADJ AMSOL	3.4	LBA/GAL	L	4.9	% v/v	A					

Purdue University Weed Science

Evaluate tank-mixes of Impact CORE with atrazine, DiFlexx, Hornet or clopyralid for early post residual control of giant ragweed
 Trial ID: 22S-TPAC-CORN-10 Cooperator Trial ID:
 Protocol ID: 22S-TPAC-CORN-10 Location: TPAC Trial Year: 2022
 Project ID: 22D12H025 Project ID 2: Project ID 3:
 Study Director: Brent Mansfield Sponsor Contact: Dan Kunkel - AMVAC
 Investigator (Creator): Dr. Bill Johnson

Trt No.	Treatment Type Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Appl Code	Rep 1	2	3	4	Notes
7	HERB IMPACT CORE	7.15	LBA/GAL	EC	30 fl oz/a		A	201	303	604	801	
	HERB HORNET	68.5	%AW/W	WG	3 oz wt/a		A					
	HERB ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	21.3 fl oz/a		A					
	ADJ ACTIVATOR 90	100	%	L	0.25 % v/v		A					
	ADJ AMSOL	3.4	LBA/GAL	L	4.9 % v/v		A					
8	HERB IMPACT CORE	7.15	LBA/GAL	EC	30 fl oz/a		A	202	401	603	705	
	HERB HORNET	68.5	%AW/W	WG	4 oz wt/a		A					
	HERB ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	21.3 fl oz/a		A					
	ADJ ACTIVATOR 90	100	%	L	0.25 % v/v		A					
	ADJ AMSOL	3.4	LBA/GAL	L	4.9 % v/v		A					
9	HERB IMPACT CORE	7.15	LBA/GAL	EC	30 fl oz/a		A	203	406	601	804	
	HERB DIFLEXX	4	LBAE/GAL	L	8 fl oz/a		A					
	HERB ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	21.3 fl oz/a		A					
	ADJ ACTIVATOR 90	100	%	L	0.25 % v/v		A					
	ADJ AMSOL	3.4	LBA/GAL	L	4.9 % v/v		A					
10	HERB IMPACT CORE	7.15	LBA/GAL	EC	30 fl oz/a		A	204	403	501	702	
	HERB DIFLEXX	4	LBAE/GAL	L	16 fl oz/a		A					
	HERB ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	21.3 fl oz/a		A					
	ADJ ACTIVATOR 90	100	%	L	0.25 % v/v		A					
	ADJ AMSOL	3.4	LBA/GAL	L	4.9 % v/v		A					
11	HERB RESICORE	3.29	LBA/GAL	SC	1.5 qt/a		A	205	306	602	803	
	HERB ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	21.3 fl oz/a		A					
	ADJ ACTIVATOR 90	100	%	L	0.25 % v/v		A					
	ADJ AMSOL	3.4	LBA/GAL	L	4.9 % v/v		A					
12	CHK NONTREATED CHECK							206	402	504	806	

Sort Order: Replicate 1