

# Purdue Weed Science

## Bayer Corn Herbicides Demo

Trial ID: 19S-TPAC-CORN-03	Location: TPAC	Trial Y
Protocol ID: 19S-TPAC-CORN-03	Investigator (Creator): Dr. Bill Johnson	
Project ID: H19USAWMUUEF1	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: A. Kurtz - Bayer	

### General Trial Information

**Study Director:** Dustin Johnson & Marcelo Zimmer **Title:** Research Associate  
**Investigator:** Dr. Bill Johnson **Title:** Professor

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

**ARM Trial Created On:** Apr-18-2019  
**Initiation Date:** May-21-2019

### Trial Location

**City:** Lafayette **Country:** USA United States  
**State/Prov.:** Indiana  
**Postal Code:** 47909

**Latitude of LL Corner °:** 40.29174 N  
**Longitude of LL Corner °:** -86.90874 W

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

### Contacts

**Role:** STYDIR

**Study Director:** Dustin Johnson & Marcelo Zimmer **Title:** Research Associate  
**Organization:** Purdue University  
**Address 1:** 915 W. State Street  
**Country:** USA United States **E-mail:** john1357@purdue.edu  
**City:** West Lafayette, IN **Postal Code:** 47907

**Role:** INVEST

**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, IN **Postal Code:** 47907

**Role:** SPONSR

**Sponsor:** A. Kurtz - Bayer

**Role:** COOPER

**Cooperator:** Jay Young **Title:** Superintendent  
**Organization:** Purdue University  
**Address 1:** 8343 US 231 S **Phone No.:** 765-538-3422  
**Country:** USA United States **Fax No.:** 765-538-3423  
**City:** Lafayette **E-mail:** jayyoung@purdue.edu  
**State/Prov:** IN **Postal Code:** 47909

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### Crop Description

<b>Crop 1:</b> C	ZEAMX Zea mays	Corn	<b>BBCH Scale:</b> BCOR
<b>Entry Date:</b>	May-23-2019		
<b>Variety:</b>	DKC62-52RIB		
<b>Planting Date:</b>	May-21-2019	<b>Planting Rate:</b> 32000	S/A
<b>Depth:</b>	1.75 IN	<b>Planting Method:</b>	PLANTD planted
<b>Rows per Plot:</b>	4	<b>Planting Equipment:</b>	PP plot planter
<b>Row Spacing:</b>	30 IN	<b>Soil Moisture:</b>	SLIWET slightly wet, moist
<b>Soil Temperature:</b>	58 F	<b>Harvested Width:</b>	5 FT
<b>Emergence Date:</b>	May-29-2019	<b>Harvested Length:</b>	25 FT
<b>% Standard Moisture:</b>	15.5		

### Pest Description

<b>Pest 1 Type:</b> W	<b>Code:</b> AMBTR Ambrosia trifida	<b>Entry Date:</b> Jun-12-2019
<b>Common Name:</b>	Giant ragweed	<b>Stage Scale:</b> BBCH
<b>Pest 2 Type:</b> W	<b>Code:</b> SETFA Setaria faberi	<b>Entry Date:</b> Jun-12-2019
<b>Common Name:</b>	Giant foxtail	<b>Stage Scale:</b> BBCH
<b>Pest 3 Type:</b> W	<b>Code:</b> SETPU Setaria helvola	<b>Entry Date:</b> Jun-12-2019
<b>Common Name:</b>	yellow foxtail	<b>Stage Scale:</b> BBCH

### Site and Design

<b>Treated Plot Width:</b>	10 FT	<b>Site Type:</b>	FIELD field
<b>Treated Plot Length:</b>	30 FT	<b>Experimental Unit:</b>	1 PLOT plot
<b>Treated Plot Area:</b>	300 FT <sup>2</sup>	<b>Tillage Type:</b>	CONTIL conventional-till
<b>Treatments:</b>	12	<b>Study Design:</b>	RACOB� Randomized Compl
<b>Replications:</b>	4		

### Field Prep./Maintenance:

4/21/19 Farm Applied 180 lbs of N applied as UAN 28-0-0.

### Soil Description

<b>Description Name:</b>	TPAC- Field 4B	<b>Texture:</b>	SIL silt loam
<b>% OM:</b>	2.9	<b>Soil Name:</b>	Toronto-Millbrook
<b>pH:</b>	6.44		
<b>CEC:</b>	10.67		

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	Sponsor Contact: A. Kurtz - Bayer	

## Application Description

	A	B	C
<b>Application Date</b>	May-21-2019	Jun-11-2019	Jun-17-2019
<b>Appl. Start Time</b>	4:15 PM	11:55 AM	2:50 PM
<b>Appl. Stop Time</b>	4:40 PM	11:58 AM	3:20 PM
<b>Interval to Prev. Appl.</b>		21 DAYS	6 DAYS
<b>Application Method</b>	SPRAY	SPRAY	SPRAY
<b>Application Timing</b>	PREPRE	POSPOS	POSPOS
<b>Application Placement</b>	BROADC	BROADC	BROADC
<b>Applied By</b>	J. HAARMANN	D. JOHNSON	C. HODGSKISS
<b>Appl. Entry Date</b>	May-23-2019	Jun-12-2019	Jun-20-2019
<b>Air Temperature Start, Stop</b>	56 F	56 F	79 F
<b>% Relative Humidity Start, Stop</b>	72	74	73
<b>Wind Velocity+Dir. Start</b>	9 MPH E	3 MPH SW	3 MPH S
<b>Soil Temperature</b>	58 F	77 F	78 F
<b>Soil Moisture</b>	SLIWET	DRY	DRY
<b>% Cloud Cover</b>	100	10	100

## Crop Stage At Each Application

	A	B	C
<b>Crop 1 Code, BBCH Scale</b>	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
<b>Days after Emergence</b>	-8	13	19
<b>Stage Scale Used</b>	BBCH	BBCH	BBCH
<b>Stage Majority, Percent</b>	00	14	15
<b>Stage Minimum, Percent</b>	00	12	14
<b>Stage Maximum, Percent</b>	00	14	15
<b>Diameter Average</b>	0 IN	0 IN	0 IN
<b>Height Average</b>	0 IN	7 IN	9 IN
<b>Height Minimum, Maximum</b>	0 0	4 10	6 11

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Location: TPAC  
 Investigator (Creator): Dr. Bill Johnson

Study Director: Dustin Johnson & Marcelo Zimmer  
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Trial Y

### Pest Stage At Each Application

	A	B	C
<b>Pest 1 Code, Type, Scale</b>	AMBTR W BBCH	AMBTR W BBCH	AMBTR W BBCH
<b>Stage Majority, Percent</b>	00	14	12
<b>Stage Minimum, Percent</b>	00	10	10
<b>Stage Maximum, Percent</b>	00	16	16
<b>Height Average</b>	0 IN	3 IN	2 IN
<b>Height Minimum, Maximum</b>	0 0	0 6	0 12
<b>Density Average</b>	0 00	10 FT2	10 FT2
<b>Density Minimum, Maximum</b>	0 0	5 15	0 17
<b>Pest 2 Code, Type, Scale</b>	SETFA W BBCH	SETFA W BBCH	SETFA W BBCH
<b>Stage Majority, Percent</b>	00	13	12
<b>Stage Minimum, Percent</b>	00	10	10
<b>Stage Maximum, Percent</b>	00	15	13
<b>Height Average</b>	0 IN	3 IN	1 IN
<b>Height Minimum, Maximum</b>	0 0	0.25 6	0 4
<b>Density Average</b>	0 00	15 FT2	3 FT2
<b>Density Minimum, Maximum</b>	0 0	0 30	0 5
<b>Pest 3 Code, Type, Scale</b>	SETPU W BBCH	SETPU W BBCH	SETPU W BBCH
<b>Stage Majority, Percent</b>	00	00	12
<b>Stage Minimum, Percent</b>	00	00	10
<b>Stage Maximum, Percent</b>	00	00	13
<b>Height Average</b>	0 IN	0 IN	1 IN
<b>Height Minimum, Maximum</b>	0 0	0 0	0 3
<b>Density Average</b>	0 00	0 00	4 FT2
<b>Density Minimum, Maximum</b>	0 0	0 10	0 6

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	Sponsor Contact: A. Kurtz - Bayer	

### Application Equipment

	A	B	C
<b>Appl. Equipment</b>	CO2 BACKPACK	CO2 BACKPACK	CO2 BACKPACK
<b>Equipment Type</b>	BACSPR	BACSPR	BACSPR
<b>Operation Pressure</b>	29 PSI	18 PSI	29 PSI
<b>Nozzle Type</b>	TTI	FLAFXR	TTI
<b>Nozzle Size</b>	110015	XR8002	110015
<b>Nozzle Spacing</b>	15 IN	15 IN	15 IN
<b>Nozzles/Row</b>	8	8	8
<b>Boom Length</b>	10 FT	10 FT	10 FT
<b>Boom Height</b>	17 IN	17 IN	17 IN
<b>Ground Speed</b>	3 MPH	3 MPH	3 MPH
<b>Carrier</b>	WATER	WATER	WATER
<b>Application Amount</b>	15 GAL/AC	15 GAL/AC	15 GAL/AC
<b>Mix Size</b>	1.8 liters	1.8 liters	1.8 liters
<b>Propellant</b>	COMCO2	COMCO2	COMCO2

Context	Date	By	Notes
STATUS	Apr-18-2019	Dr. Bill Johnson	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
MAINT	May-21-2019	Co-op Applied	Farm Applied 180 lbs of N applied as UAN 28-0-0.
STATUS	May-23-2019	Dr. Bill Johnson	Automatically added by ARM: Trial Status updated to 'E' when Initiation Date entered.
GENTRI	Jun-17-2019	D. JOHNSON	Application "C" was applied due to corn size rather than weed size and weed emergence.
GENTRI	Jun-24-2019	D. JOHNSON	Crop Injury was due to crop leaning from Diflexx & Diflexx Duo. There was some necrosis crop injury in treatment 2 post application.

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Project ID: H19USAWMUUEF1	Study Director: Dustin Johnson & Marcelo Zimmer			
Sponsor Contact: A. Kurtz - Bayer				

Reps: 4

Plots: 10 by 30 feet

Appl. Amount: 15 GAL/AC

Mix Size: 1.8 liters (total for 4 plots; minimum=1.564 liters)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Appl Amount Unit	Mix Amount Unit	Mix Size Unit	Amt Product to Measure
1	UNTREATED CHECK								
2	CORVUS	2.63 LB/GAL		SC	4.5 oz/a	15 GAL/AC	1.8 liters		4.219 mL/mx
	AATREX	4 LB/GAL		L	1 qt/a	15 GAL/AC	1.8 liters		30.0 mL/mx
	HARNESS MAX	3.85 LBA/GAL		SE	55 fl oz/a	15 GAL/AC	1.8 liters		51.56 mL/mx
	AATREX	4 LB/GAL		L	0.5 qt/a	15 GAL/AC	1.8 liters		15.0 mL/mx
	DIFLEXX	4 LB/GAL		SC	8 fl oz/a	15 GAL/AC	1.8 liters		7.5 mL/mx
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	32 fl oz/a	15 GAL/AC	1.8 liters		30.0 mL/mx
	COC	100 %		SL	0.5 % v/v	15 GAL/AC	1.8 liters		8.999 mL/mx
	CLASS ACT RIDION	100 %		L	1 % v/v	15 GAL/AC	1.8 liters		18.0 mL/mx
3	BALANCE FLEXX	2 LB/GAL		L	5 fl oz/a	15 GAL/AC	1.8 liters		4.687 mL/mx
	HARNESS XTRA 5.6L	5.6 LB/GAL		SE	1.5 qt/a	15 GAL/AC	1.8 liters		45.0 mL/mx
	CAPRENO	3.45 LB/GAL		SC	3 fl oz/a	15 GAL/AC	1.8 liters		2.812 mL/mx
	AATREX	4 LB/GAL		L	1 qt/a	15 GAL/AC	1.8 liters		30.0 mL/mx
	DIFLEXX	4 LB/GAL		SC	8 fl oz/a	15 GAL/AC	1.8 liters		7.5 mL/mx
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	32 fl oz/a	15 GAL/AC	1.8 liters		30.0 mL/mx
	COC	100 %		SL	0.5 % v/v	15 GAL/AC	1.8 liters		8.999 mL/mx
	CLASS ACT RIDION	100 %		L	1 % v/v	15 GAL/AC	1.8 liters		18.0 mL/mx
4	CORVUS	2.63 LB/GAL		SC	4.5 fl oz/a	15 GAL/AC	1.8 liters		4.219 mL/mx
	HARNESS XTRA 5.6L	5.6 LB/GAL		SE	1.5 qt/a	15 GAL/AC	1.8 liters		45.0 mL/mx
	LAUDIS	3.5 LB/GAL		L	3 fl oz/a	15 GAL/AC	1.8 liters		2.812 mL/mx
	AATREX	4 LB/GAL		L	1 qt/a	15 GAL/AC	1.8 liters		30.0 mL/mx
	DIFLEXX	4 LB/GAL		SC	8 fl oz/a	15 GAL/AC	1.8 liters		7.5 mL/mx
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	32 fl oz/a	15 GAL/AC	1.8 liters		30.0 mL/mx
	MSO	100 %		SL	0.5 % v/v	15 GAL/AC	1.8 liters		8.999 mL/mx
	CLASS ACT RIDION	100 %		L	1 % v/v	15 GAL/AC	1.8 liters		18.0 mL/mx
5	BALANCE FLEXX	2 LB/GAL		L	5 fl oz/a	15 GAL/AC	1.8 liters		4.687 mL/mx
	HARNESS XTRA 5.6L	5.6 LB/GAL		SE	1.5 qt/a	15 GAL/AC	1.8 liters		45.0 mL/mx
	DIFLEXX DUO	1.53 LBAE/GAL		SC	32 fl oz/a	15 GAL/AC	1.8 liters		30.0 mL/mx
	AATREX	4 LB/GAL		L	1 qt/a	15 GAL/AC	1.8 liters		30.0 mL/mx
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	32 fl oz/a	15 GAL/AC	1.8 liters		30.0 mL/mx
	COC	100 %		SL	0.5 % v/v	15 GAL/AC	1.8 liters		8.999 mL/mx
	CLASS ACT RIDION	100 %		L	1 % v/v	15 GAL/AC	1.8 liters		18.0 mL/mx
6	BALANCE FLEXX	2 LB/GAL		L	5 fl oz/a	15 GAL/AC	1.8 liters		4.687 mL/mx
	AATREX	4 LB/GAL		L	1 qt/a	15 GAL/AC	1.8 liters		30.0 mL/mx
	LAUDIS	3.5 LB/GAL		L	3 fl oz/a	15 GAL/AC	1.8 liters		2.812 mL/mx
	DEGREE EXTRA	4.40 LB/GAL		L	2 qt/a	15 GAL/AC	1.8 liters		60.0 mL/mx
	DIFLEXX	4 LB/GAL		SC	8 fl oz/a	15 GAL/AC	1.8 liters		7.5 mL/mx
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	32 fl oz/a	15 GAL/AC	1.8 liters		30.0 mL/mx
	MSO	100 %		SL	0.5 % v/v	15 GAL/AC	1.8 liters		8.999 mL/mx
	CLASS ACT RIDION	100 %		L	1 % v/v	15 GAL/AC	1.8 liters		18.0 mL/mx

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	Sponsor Contact: A. Kurtz - Bayer	

Reps: 4

Plots: 10 by 30 feet

Appl. Amount: 15 GAL/AC

Mix Size: 1.8 liters (total for 4 plots; minimum=1.564 liters)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Appl Amount Unit	Mix Size Unit	Mix Unit	Amt Product to Measure
7	BALANCE FLEXX	2 LB/GAL	L	L	5 fl oz/a	15 GAL/AC	1.8 liters	4.687 mL/mx	
	DEGREE EXTRA	4.40 LB/GAL	L	L	2 qt/a	15 GAL/AC	1.8 liters	60.0 mL/mx	
	LAUDIS	3.5 LB/GAL	L	L	3 fl oz/a	15 GAL/AC	1.8 liters	2.812 mL/mx	
	AATREX	4 LB/GAL	L	L	1 qt/a	15 GAL/AC	1.8 liters	30.0 mL/mx	
	DIFLEXX	4 LB/GAL	SC	SC	8 fl oz/a	15 GAL/AC	1.8 liters	7.5 mL/mx	
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL	SL	32 fl oz/a	15 GAL/AC	1.8 liters	30.0 mL/mx	
	MSO	100 %	SL	SL	0.5 % v/v	15 GAL/AC	1.8 liters	8.999 mL/mx	
	CLASS ACT RIDION	100 %	L	L	1 % v/v	15 GAL/AC	1.8 liters	18.0 mL/mx	
8	BALANCE FLEXX	2 LB/GAL	L	L	5 fl oz/a	15 GAL/AC	1.8 liters	4.687 mL/mx	
	AATREX	4 LB/GAL	L	L	1 qt/a	15 GAL/AC	1.8 liters	30.0 mL/mx	
	LAUDIS	3.5 LB/GAL	L	L	3 fl oz/a	15 GAL/AC	1.8 liters	2.812 mL/mx	
	WARRANT	3 LB/GAL	EC	EC	1.5 qt/a	15 GAL/AC	1.8 liters	45.0 mL/mx	
	AATREX	4 LB/GAL	L	L	0.5 qt/a	15 GAL/AC	1.8 liters	15.0 mL/mx	
	DIFLEXX	4 LB/GAL	SC	SC	8 fl oz/a	15 GAL/AC	1.8 liters	7.5 mL/mx	
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL	SL	32 fl oz/a	15 GAL/AC	1.8 liters	30.0 mL/mx	
	MSO	100 %	SL	SL	0.5 % v/v	15 GAL/AC	1.8 liters	8.999 mL/mx	
CLASS ACT RIDION	100 %	L	L	1 % v/v	15 GAL/AC	1.8 liters	18.0 mL/mx		
9	DEGREE EXTRA	4.4 LB/GAL	L	L	3.5 qt/a	15 GAL/AC	1.8 liters	105.0 mL/mx	
	CAPRENO	3.45 LB/GAL	SC	SC	3 fl oz/a	15 GAL/AC	1.8 liters	2.812 mL/mx	
	AATREX	4 LB/GAL	L	L	0.5 qt/a	15 GAL/AC	1.8 liters	15.0 mL/mx	
	DIFLEXX	4 LB/GAL	SC	SC	8 fl oz/a	15 GAL/AC	1.8 liters	7.5 mL/mx	
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL	SL	32 fl oz/a	15 GAL/AC	1.8 liters	30.0 mL/mx	
	COC	100 %	SL	SL	0.5 % v/v	15 GAL/AC	1.8 liters	8.999 mL/mx	
	CLASS ACT RIDION	100 %	L	L	1 % v/v	15 GAL/AC	1.8 liters	18.0 mL/mx	
10	CAPRENO	3.45 LB/GAL	SC	SC	3 fl oz/a	15 GAL/AC	1.8 liters	2.812 mL/mx	
	DEGREE EXTRA	4.4 LB/GAL	L	L	3 qt/a	15 GAL/AC	1.8 liters	90.0 mL/mx	
	DIFLEXX	4 LB/GAL	SC	SC	8 fl oz/a	15 GAL/AC	1.8 liters	7.5 mL/mx	
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL	SL	32 fl oz/a	15 GAL/AC	1.8 liters	30.0 mL/mx	
	COC	100 %	SL	SL	0.5 % v/v	15 GAL/AC	1.8 liters	8.999 mL/mx	
	CLASS ACT RIDION	100 %	L	L	1 % v/v	15 GAL/AC	1.8 liters	18.0 mL/mx	
11	ACURON	3.44 LB/GAL	ZC	ZC	2 qt/a	15 GAL/AC	1.8 liters	60.0 mL/mx	
	HALEX GT	4.389 LBAE/GAL	L	L	3.6 pt/a	15 GAL/AC	1.8 liters	54.0 mL/mx	
	AATREX	4 LB/GAL	L	L	0.5 qt/a	15 GAL/AC	1.8 liters	15.0 mL/mx	
	DIFLEXX	4 LB/GAL	SC	SC	8 fl oz/a	15 GAL/AC	1.8 liters	7.5 mL/mx	
	ACTIVATOR 90 NIS	100 %	SL	SL	0.25 % v/v	15 GAL/AC	1.8 liters	4.5 mL/mx	
	CLASS ACT RIDION	100 %	L	L	1 % v/v	15 GAL/AC	1.8 liters	18.0 mL/mx	

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Reps: 4

Plots: 10 by 30 feet

Appl. Amount: 15 GAL/AC

Mix Size: 1.8 liters (total for 4 plots; minimum=1.564 liters)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Unit	Appl Amount Unit	Mix Size Unit	Mix Unit	Amt Product to Measure
12	RESICORE	3.29	LB/GAL	L	2.5 qt/a	15 GAL/AC	1.8 liters	75.0 mL/mx	
	AATREX	4	LB/GAL	L	1 qt/a	15 GAL/AC	1.8 liters	30.0 mL/mx	
	DIFLEXX	4	LB/GAL	SC	8 fl oz/a	15 GAL/AC	1.8 liters	7.5 mL/mx	
	AATREX	4	LB/GAL	L	0.5 qt/a	15 GAL/AC	1.8 liters	15.0 mL/mx	
	DURANGO DMA	4	LBAE/GAL	SL	1.5 pt/a	15 GAL/AC	1.8 liters	22.5 mL/mx	
	COC	100 %		SL	0.5 % v/v	15 GAL/AC	1.8 liters	8.999 mL/mx	
	CLASS ACT RIDION	100 %		L	1 % v/v	15 GAL/AC	1.8 liters	18.0 mL/mx	

Sort Order: Replicate 1

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Treatment Name	Form Conc	Form Unit	Form Type	Lot Code
10.547	mL	CORVUS	2.63	LB/GAL	SC	479
393.749	mL	AATREX	4	LB/GAL	L	480
64.453	mL	HARNESS MAX	3.85	LBA/GAL	SE	462
93.750	mL	DIFLEXX	4	LB/GAL	SC	506
337.500	mL	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	540
67.493	mL	COC	100	%	SL	100
247.473	mL	CLASS ACT RIDION	100	%	L	100
29.297	mL	BALANCE FLEXX	2%	LB/GAL	0 g/1000	480
168.749	mL	HARNESS XTRA 5.6L	5.6	LB/GAL	SE	672
10.547	mL	CAPRENO	3.45%	LB/GAL	0 g/1000	546.99
14.062	mL	LAUDIS	3.5	LB/GAL	L	630
44.995	mL	MSO	100	%	SL	100
37.500	mL	DIFLEXX DUO	1.53%	LBAE/GAL	0 g/1000	194
393.749	mL	DEGREE EXTRA	4.40	LB/GAL	L	485
56.250	mL	WARRANT	3	LB/GAL	EC	359
75.000	mL	ACURON	3.44	LB/GAL	ZC	425.6
67.500	mL	HALEX GT	4.389	LBAE/GAL	L	525.802
5.624	mL	ACTIVATOR 90 NIS	100	%	SL	100
93.750	mL	RESICORE	3.29	LB/GAL	L	394.4
28.125	mL	DURANGO DMA	4	LBAE/GAL	SL	646.92

\* 'Per area' calculations based on application amount= 15 GAL/AC, mix size= 1.8 L (mix size basis).

\* Product amount calculations increased 25 % for overage adjustment.

\* 'Per volume' calculations use spray volume= 15 GAL/AC, mix size= 1.8 L.



# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				Trial Y
Trial ID: 19S-TPAC-CORN-03		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: A. Kurtz - Bayer				
Pest Type		W Weed	W Weed	
Pest Code		AMBTR	SETFA	
Pest Scientific Name		Ambrosia trifida	Setaria faberi	
Pest Name		Giant ragweed	Giant foxtail	
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Rating Date	Jun-17-2019	Jun-17-2019	Jun-17-2019	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	PHYGEN	CONTRO	CONTRO	
Rating Unit	%	%	%	
Sample Size				
Number of Subsamples	1	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-20-2019	Jun-10-2019	Jun-10-2019	
Rating Timing	A1	A1	A1	
Days After First/Last Applic.	27 6	27 6	27 6	
Trt-Eval Interval				
Plant-Eval Interval	27 DP-1	27 DP-1	27 DP-1	
Days After Emergence	19 DE-1	19 DE-1	19 DE-1	
ARM Action Codes	P	P	P	
Number of Decimals	0	0	0	
Trt Treatment	Rate Appl			
No. Name	Rate Unit Code	1	2	3
1 UNTREATED CHECK		0	0	0
2 CORVUS	4.5 oz/a A	0 b	90 abc	96 a
AATREX	1 qt/a A			
HARNESS MAX	55 fl oz/a C			
AATREX	0.5 qt/a C			
DIFLEXX	8 fl oz/a C			
ROUNDUP POWERMAX	32 fl oz/a C			
COC	0.5 % v/v C			
CLASS ACT RIDION	1 % v/v 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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				Trial Y
Trial ID: 19S-TPAC-CORN-03		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: A. Kurtz - Bayer				
Pest Type		W Weed	W Weed	
Pest Code		AMBTR	SETFA	
Pest Scientific Name		Ambrosia trifida	Setaria faberi	
Pest Name		Giant ragweed	Giant foxtail	
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Rating Date	Jun-17-2019	Jun-17-2019	Jun-17-2019	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	PHYGEN	CONTRO	CONTRO	
Rating Unit	%	%	%	
Sample Size				
Number of Subsamples	1	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-20-2019	Jun-10-2019	Jun-10-2019	
Rating Timing	A1	A1	A1	
Days After First/Last Applic.	27 6	27 6	27 6	
Trt-Eval Interval				
Plant-Eval Interval	27 DP-1	27 DP-1	27 DP-1	
Days After Emergence	19 DE-1	19 DE-1	19 DE-1	
ARM Action Codes	P	P	P	
Number of Decimals	0	0	0	
Trt Treatment	Rate Appl			
No. Name	Rate Unit Code	1	2	3
3 BALANCE FLEXX	5 fl oz/a A	0 b	92 ab	100 a
HARNESS XTRA 5.6L	1.5 qt/a A			
CAPRENO	3 fl oz/a C			
AATREX	1 qt/a C			
DIFLEXX	8 fl oz/a C			
ROUNDUP POWERMAX	32 fl oz/a C			
COC	0.5 % v/v C			
CLASS ACT RIDION	1 % v/v 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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

Bayer Corn Herbicides Demo				Trial Y	
Trial ID: 19S-TPAC-CORN-03		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson			
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: A. Kurtz - Bayer			
Pest Type		W Weed		W Weed	
Pest Code		AMBTR		SETFA	
Pest Scientific Name		Ambrosia trifida		Setaria faberi	
Pest Name		Giant ragweed		Giant foxtail	
Crop Type, Code	C ZEAMX	C ZEAMX		C ZEAMX	
BBCH Scale	BCOR	BCOR		BCOR	
Crop Scientific Name	Zea mays	Zea mays		Zea mays	
Crop Name	Corn	Corn		Corn	
Rating Date	Jun-17-2019	Jun-17-2019		Jun-17-2019	
Part Rated	PLOT -	PLOT -		PLOT -	
Rating Type	PHYGEN	CONTRO		CONTRO	
Rating Unit	%	%		%	
Sample Size					
Number of Subsamples	1	1		1	
Assessed By	D. JOHNSON	D. JOHNSON		D. JOHNSON	
Data Entry Date	Jun-20-2019	Jun-10-2019		Jun-10-2019	
Rating Timing	A1	A1		A1	
Days After First/Last Applic.	27 6	27 6		27 6	
Trt-Eval Interval					
Plant-Eval Interval	27 DP-1	27 DP-1		27 DP-1	
Days After Emergence	19 DE-1	19 DE-1		19 DE-1	
ARM Action Codes	P	P		P	
Number of Decimals	0	0		0	
Trt Treatment	Rate Appl				
No. Name	Rate Unit Code	1	2	3	
4 CORVUS	4.5 fl oz/a A	0 b	91 abc	100 a	
HARNESS XTRA 5.6L	1.5 qt/a A				
LAUDIS	3 fl oz/a C				
AATREX	1 qt/a C				
DIFLEXX	8 fl oz/a C				
ROUNDUP POWERMAX	32 fl oz/a C				
MSO	0.5 % v/v C				
CLASS ACT RIDION	1 % v/v 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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				Trial Y
Trial ID: 19S-TPAC-CORN-03		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: A. Kurtz - Bayer				
Pest Type		W Weed	W Weed	
Pest Code		AMBTR	SETFA	
Pest Scientific Name		Ambrosia trifida	Setaria faberi	
Pest Name		Giant ragweed	Giant foxtail	
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Rating Date	Jun-17-2019	Jun-17-2019	Jun-17-2019	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	PHYGEN	CONTRO	CONTRO	
Rating Unit	%	%	%	
Sample Size				
Number of Subsamples	1	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-20-2019	Jun-10-2019	Jun-10-2019	
Rating Timing	A1	A1	A1	
Days After First/Last Applic.	27 6	27 6	27 6	
Trt-Eval Interval				
Plant-Eval Interval	27 DP-1	27 DP-1	27 DP-1	
Days After Emergence	19 DE-1	19 DE-1	19 DE-1	
ARM Action Codes	P	P	P	
Number of Decimals	0	0	0	
Trt Treatment	Rate Appl			
No. Name	Rate Unit Code	1	2	3
5 BALANCE FLEXX	5 fl oz/a A	0 b	84 c	100 a
HARNESS XTRA 5.6L	1.5 qt/a A			
DIFLEXX DUO	32 fl oz/a C			
AATREX	1 qt/a C			
ROUNDUP POWERMAX	32 fl oz/a C			
COC	0.5 % v/v C			
CLASS ACT RIDION	1 % v/v 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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				
Trial ID: 19S-TPAC-CORN-03		Location: TPAC		Trial Y
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: A. Kurtz - Bayer				
Pest Type		W Weed	W Weed	
Pest Code		AMBTR	SETFA	
Pest Scientific Name		Ambrosia trifida	Setaria faberi	
Pest Name		Giant ragweed	Giant foxtail	
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Rating Date	Jun-17-2019	Jun-17-2019	Jun-17-2019	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	PHYGEN	CONTRO	CONTRO	
Rating Unit	%	%	%	
Sample Size				
Number of Subsamples	1	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-20-2019	Jun-10-2019	Jun-10-2019	
Rating Timing	A1	A1	A1	
Days After First/Last Applic.	27 6	27 6	27 6	
Trt-Eval Interval				
Plant-Eval Interval	27 DP-1	27 DP-1	27 DP-1	
Days After Emergence	19 DE-1	19 DE-1	19 DE-1	
ARM Action Codes	P	P	P	
Number of Decimals	0	0	0	
Trt Treatment	Rate Appl			
No. Name	Rate Unit Code	1	2	3
6 BALANCE FLEXX	5 fl oz/a A	0 b	86 bc	97 a
AATREX	1 qt/a A			
LAUDIS	3 fl oz/a C			
DEGREE EXTRA	2 qt/a C			
DIFLEXX	8 fl oz/a C			
ROUNDUP POWERMAX	32 fl oz/a C			
MSO	0.5 % v/v C			
CLASS ACT RIDION	1 % v/v 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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				
Trial ID: 19S-TPAC-CORN-03		Location: TPAC		Trial Y
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: A. Kurtz - Bayer				
Pest Type		W Weed	W Weed	
Pest Code		AMBTR	SETFA	
Pest Scientific Name		Ambrosia trifida	Setaria faberi	
Pest Name		Giant ragweed	Giant foxtail	
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Rating Date	Jun-17-2019	Jun-17-2019	Jun-17-2019	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	PHYGEN	CONTRO	CONTRO	
Rating Unit	%	%	%	
Sample Size				
Number of Subsamples	1	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-20-2019	Jun-10-2019	Jun-10-2019	
Rating Timing	A1	A1	A1	
Days After First/Last Applic.	27 6	27 6	27 6	
Trt-Eval Interval				
Plant-Eval Interval	27 DP-1	27 DP-1	27 DP-1	
Days After Emergence	19 DE-1	19 DE-1	19 DE-1	
ARM Action Codes	P	P	P	
Number of Decimals	0	0	0	
Trt Treatment	Rate Appl			
No. Name	Rate Unit Code	1	2	3
7 BALANCE FLEXX	5 fl oz/a A	0 b	91 abc	100 a
DEGREE EXTRA	2 qt/a A			
LAUDIS	3 fl oz/a C			
AATREX	1 qt/a C			
DIFLEXX	8 fl oz/a C			
ROUNDUP POWERMAX	32 fl oz/a C			
MSO	0.5 % v/v C			
CLASS ACT RIDION	1 % v/v 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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				Trial Y
Trial ID: 19S-TPAC-CORN-03		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: A. Kurtz - Bayer				
Pest Type		W Weed	W Weed	
Pest Code		AMBTR	SETFA	
Pest Scientific Name		Ambrosia trifida	Setaria faberi	
Pest Name		Giant ragweed	Giant foxtail	
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Rating Date	Jun-17-2019	Jun-17-2019	Jun-17-2019	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	PHYGEN	CONTRO	CONTRO	
Rating Unit	%	%	%	
Sample Size				
Number of Subsamples	1	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-20-2019	Jun-10-2019	Jun-10-2019	
Rating Timing	A1	A1	A1	
Days After First/Last Applic.	27 6	27 6	27 6	
Trt-Eval Interval				
Plant-Eval Interval	27 DP-1	27 DP-1	27 DP-1	
Days After Emergence	19 DE-1	19 DE-1	19 DE-1	
ARM Action Codes	P	P	P	
Number of Decimals	0	0	0	
Trt Treatment	Rate Appl			
No. Name	Rate Unit Code	1	2	3
8 BALANCE FLEXX	5 fl oz/a A	0 b	86 bc	99 a
AATREX	1 qt/a A			
LAUDIS	3 fl oz/a C			
WARRANT	1.5 qt/a C			
AATREX	0.5 qt/a C			
DIFLEXX	8 fl oz/a C			
ROUNDUP POWERMAX	32 fl oz/a C			
MSO	0.5 % v/v C			
CLASS ACT RIDION	1 % v/v 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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

Bayer Corn Herbicides Demo			
Trial ID: 19S-TPAC-CORN-03	Location: TPAC	Trial Y	
Protocol ID: 19S-TPAC-CORN-03	Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1	Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: A. Kurtz - Bayer			

		W Weed AMBTR	W Weed SETFA
Pest Type		Ambrosia trifida	Setaria faberi
Pest Code		Giant ragweed	Giant foxtail
Pest Scientific Name		C ZEAMX	C ZEAMX
Pest Name		BCOR	BCOR
Crop Type, Code	C ZEAMX	Zea mays	Zea mays
BBCH Scale	BCOR	Corn	Corn
Crop Scientific Name	Zea mays	Jun-17-2019	Jun-17-2019
Crop Name	Corn	PLOT -	PLOT -
Rating Date	Jun-17-2019	PHYGEN	CONTRO
Part Rated	PLOT -	CONTRO	CONTRO
Rating Type	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-10-2019	Jun-10-2019
Rating Timing	A1	A1	A1
Days After First/Last Applic.	27 6	27 6	27 6
Trt-Eval Interval			
Plant-Eval Interval	27 DP-1	27 DP-1	27 DP-1
Days After Emergence	19 DE-1	19 DE-1	19 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment No. Name	Rate Rate Unit	Appl Code	
			1 2 3
9 DEGREE EXTRA	3.5 qt/a	A	0 b
CAPRENO	3 fl oz/a	C	32 d
AATREX	0.5 qt/a	C	100 a
DIFLEXX	8 fl oz/a	C	
ROUNDUP POWERMAX	32 fl oz/a	C	
COC	0.5 % v/v	C	
CLASS ACT RIDION	1 % v/v	C	
10 CAPRENO	3 fl oz/a	B	3 a
DEGREE EXTRA	3 qt/a	B	97 a
DIFLEXX	8 fl oz/a	B	95 a
ROUNDUP POWERMAX	32 fl oz/a	B	
COC	0.5 % v/v	B	
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.



# Purdue Weed Science

Bayer Corn Herbicides Demo			
Trial ID: 19S-TPAC-CORN-03	Location: TPAC	Trial Y	
Protocol ID: 19S-TPAC-CORN-03	Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1	Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: A. Kurtz - Bayer			

		W Weed AMBTR	W Weed SETFA
Pest Type		Ambrosia trifida	Setaria faberi
Pest Code		Giant ragweed	Giant foxtail
Pest Scientific Name			
Pest Name			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Rating Date	Jun-17-2019	Jun-17-2019	Jun-17-2019
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-20-2019	Jun-10-2019	Jun-10-2019
Rating Timing	A1	A1	A1
Days After First/Last Applic.	27 6	27 6	27 6
Trt-Eval Interval			
Plant-Eval Interval	27 DP-1	27 DP-1	27 DP-1
Days After Emergence	19 DE-1	19 DE-1	19 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment	Rate Appl		
No. Name	Rate Unit Code	1	2
			3
11 ACURON	2 qt/a A	0 b	100 a
HALEX GT	3.6 pt/a C		
AATREX	0.5 qt/a C		
DIFLEXX	8 fl oz/a C		
ACTIVATOR 90 NIS	0.25 % v/v C		
CLASS ACT RIDION	1 % v/v 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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				Trial Y	
Trial ID: 19S-TPAC-CORN-03		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson			
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: A. Kurtz - Bayer			
Pest Type		W Weed	W Weed		
Pest Code		AMBTR	SETFA		
Pest Scientific Name		Ambrosia trifida	Setaria faberi		
Pest Name		Giant ragweed	Giant foxtail		
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn		
Rating Date	Jun-17-2019	Jun-17-2019	Jun-17-2019		
Part Rated	PLOT -	PLOT -	PLOT -		
Rating Type	PHYGEN	CONTRO	CONTRO		
Rating Unit	%	%	%		
Sample Size					
Number of Subsamples	1	1	1		
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON		
Data Entry Date	Jun-20-2019	Jun-10-2019	Jun-10-2019		
Rating Timing	A1	A1	A1		
Days After First/Last Applic.	27 6	27 6	27 6		
Trt-Eval Interval					
Plant-Eval Interval	27 DP-1	27 DP-1	27 DP-1		
Days After Emergence	19 DE-1	19 DE-1	19 DE-1		
ARM Action Codes	P	P	P		
Number of Decimals	0	0	0		
Trt Treatment	Rate Appl				
No. Name	Rate Unit Code	1	2	3	
12 RESICORE	2.5 qt/a A	0 b	90 abc	100 a	
AATREX	1 qt/a A				
DIFLEXX	8 fl oz/a C				
AATREX	0.5 qt/a C				
DURANGO DMA	1.5 pt/a C				
COC	0.5 % v/v C				
CLASS ACT RIDION	1 % v/v C				
LSD P=.05		0.3	7.6	3.9	
Standard Deviation		0.2	5.3	2.7	
CV		76.59	6.29	2.74	
Grand Mean		0.2	84.0	98.7	
Levene's F			0.959	3.233	
Levene's Prob(F)			0.496	0.005*	
Rank X2		.	.	.	

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.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

Bayer Corn Herbicides Demo				Trial Y
Trial ID: 19S-TPAC-CORN-03		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: A. Kurtz - Bayer				
Pest Type		W Weed	W Weed	
Pest Code		AMBTR	SETFA	
Pest Scientific Name		Ambrosia trifida	Setaria faberi	
Pest Name		Giant ragweed	Giant foxtail	
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Rating Date	Jun-17-2019	Jun-17-2019	Jun-17-2019	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	PHYGEN	CONTRO	CONTRO	
Rating Unit	%	%	%	
Sample Size				
Number of Subsamples	1	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-20-2019	Jun-10-2019	Jun-10-2019	
Rating Timing	A1	A1	A1	
Days After First/Last Applic.	27 6	27 6	27 6	
Trt-Eval Interval				
Plant-Eval Interval	27 DP-1	27 DP-1	27 DP-1	
Days After Emergence	19 DE-1	19 DE-1	19 DE-1	
ARM Action Codes	P	P	P	
Number of Decimals	0	0	0	
Trt Treatment	Rate Appl			
No. Name	Rate Unit Code	1	2	3
P(Rank X2)		.	.	.
Skewness		3.1684*	-2.8535*	-3.061*
Kurtosis		8.9043*	8.0621*	10.499*
Replicate F		1.000	2.412	1.884
Replicate Prob(F)		0.4064	0.0871	0.1536
Treatment F		75.000	44.171	1.762
Treatment Prob(F)		0.0001	0.0001	0.1122

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.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				Trial Y	
Trial ID: 19S-TPAC-CORN-03		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson			
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: A. Kurtz - Bayer			
Pest Type		W Weed		W Weed	
Pest Code		SETPU		AMBTR	
Pest Scientific Name		Setaria helvola		Ambrosia trifida	
Pest Name		yellow foxtail		Giant ragweed	
Crop Type, Code		C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale		BCOR	BCOR	BCOR	
Crop Scientific Name		Zea mays	Zea mays	Zea mays	
Crop Name		Corn	Corn	Corn	
Rating Date		Jun-17-2019	Jun-24-2019	Jun-24-2019	
Part Rated		PLOT -	PLOT -	PLOT -	
Rating Type		CONTRO	PHYGEN	CONTRO	
Rating Unit		%	%	%	
Sample Size					
Number of Subsamples		1	1	1	
Assessed By		D. JOHNSON	D. JOHNSON	D. JOHNSON	
Data Entry Date		Jun-10-2019	Jun-20-2019	Jun-10-2019	
Rating Timing		A1	A2	A2	
Days After First/Last Applic.		27 6	34 7	34 7	
Trt-Eval Interval					
Plant-Eval Interval		27 DP-1	34 DP-1	34 DP-1	
Days After Emergence		19 DE-1	26 DE-1	26 DE-1	
ARM Action Codes		P	P	P	
Number of Decimals		0	0	0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	4	5	6
1 UNTREATED CHECK			0	0	0
2 CORVUS	4.5 oz/a	A	96 a	14 a	98 a
AATREX	1 qt/a	A			
HARNESS MAX	55 fl oz/a	C			
AATREX	0.5 qt/a	C			
DIFLEXX	8 fl oz/a	C			
ROUNDUP POWERMAX	32 fl oz/a	C			
COC	0.5 % v/v	C			
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

Bayer Corn Herbicides Demo				Trial Y	
Trial ID: 19S-TPAC-CORN-03		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson			
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: A. Kurtz - Bayer			
Pest Type	W Weed			W Weed	
Pest Code	SETPU			AMBTR	
Pest Scientific Name	Setaria helvola			Ambrosia trifida	
Pest Name	yellow foxtail			Giant ragweed	
Crop Type, Code	C ZEAMX	C ZEAMX		C ZEAMX	
BBCH Scale	BCOR	BCOR		BCOR	
Crop Scientific Name	Zea mays	Zea mays		Zea mays	
Crop Name	Corn	Corn		Corn	
Rating Date	Jun-17-2019	Jun-24-2019		Jun-24-2019	
Part Rated	PLOT -	PLOT -		PLOT -	
Rating Type	CONTRO	PHYGEN		CONTRO	
Rating Unit	%	%		%	
Sample Size					
Number of Subsamples	1	1		1	
Assessed By	D. JOHNSON	D. JOHNSON		D. JOHNSON	
Data Entry Date	Jun-10-2019	Jun-20-2019		Jun-10-2019	
Rating Timing	A1	A2		A2	
Days After First/Last Applic.	27 6	34 7		34 7	
Trt-Eval Interval					
Plant-Eval Interval	27 DP-1	34 DP-1		34 DP-1	
Days After Emergence	19 DE-1	26 DE-1		26 DE-1	
ARM Action Codes	P	P		P	
Number of Decimals	0	0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	4	5	6
3 BALANCE FLEXX	5 fl oz/a	A	100 a	10 ab	100 a
HARNESS XTRA 5.6L	1.5 qt/a	A			
CAPRENO	3 fl oz/a	C			
AATREX	1 qt/a	C			
DIFLEXX	8 fl oz/a	C			
ROUNDUP POWERMAX	32 fl oz/a	C			
COC	0.5 % v/v	C			
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

Bayer Corn Herbicides Demo				Trial Y	
Trial ID: 19S-TPAC-CORN-03		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson			
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: A. Kurtz - Bayer			
Pest Type	W Weed			W Weed	
Pest Code	SETPU			AMBTR	
Pest Scientific Name	Setaria helvola			Ambrosia trifida	
Pest Name	yellow foxtail			Giant ragweed	
Crop Type, Code	C ZEAMX	C ZEAMX		C ZEAMX	
BBCH Scale	BCOR	BCOR		BCOR	
Crop Scientific Name	Zea mays	Zea mays		Zea mays	
Crop Name	Corn	Corn		Corn	
Rating Date	Jun-17-2019	Jun-24-2019		Jun-24-2019	
Part Rated	PLOT -	PLOT -		PLOT -	
Rating Type	CONTRO	PHYGEN		CONTRO	
Rating Unit	%	%		%	
Sample Size					
Number of Subsamples	1	1		1	
Assessed By	D. JOHNSON	D. JOHNSON		D. JOHNSON	
Data Entry Date	Jun-10-2019	Jun-20-2019		Jun-10-2019	
Rating Timing	A1	A2		A2	
Days After First/Last Applic.	27 6	34 7		34 7	
Trt-Eval Interval					
Plant-Eval Interval	27 DP-1	34 DP-1		34 DP-1	
Days After Emergence	19 DE-1	26 DE-1		26 DE-1	
ARM Action Codes	P	P		P	
Number of Decimals	0	0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	4	5	6
4 CORVUS	4.5 fl oz/a	A	100 a	3 d	99 a
HARNESS XTRA 5.6L	1.5 qt/a	A			
LAUDIS	3 fl oz/a	C			
AATREX	1 qt/a	C			
DIFLEXX	8 fl oz/a	C			
ROUNDUP POWERMAX	32 fl oz/a	C			
MSO	0.5 % v/v	C			
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>		Trial Y
Trial ID: 19S-TPAC-CORN-03	Location: TPAC	
Protocol ID: 19S-TPAC-CORN-03	Investigator (Creator): Dr. Bill Johnson	
Project ID: H19USAWMUUEF1	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: A. Kurtz - Bayer	

Pest Type	W Weed		W Weed
Pest Code	SETPU		AMBTR
Pest Scientific Name	Setaria helvola		Ambrosia trifida
Pest Name	yellow foxtail		Giant ragweed
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Rating Date	Jun-17-2019	Jun-24-2019	Jun-24-2019
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-10-2019	Jun-20-2019	Jun-10-2019
Rating Timing	A1	A2	A2
Days After First/Last Applic.	27 6	34 7	34 7
Trt-Eval Interval			
Plant-Eval Interval	27 DP-1	34 DP-1	34 DP-1
Days After Emergence	19 DE-1	26 DE-1	26 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			4 5 6
5 BALANCE FLEXX	5 fl oz/a	A	100 a
HARNESS XTRA 5.6L	1.5 qt/a	A	
DIFLEXX DUO	32 fl oz/a	C	
AATREX	1 qt/a	C	
ROUNDUP POWERMAX	32 fl oz/a	C	
COC	0.5 % v/v	C	
CLASS ACT RIDION	1 % v/v	C	98 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.  
 Untreated treatment(s) 1 excluded from analysis.  
 Missing data estimates are included in columns: Yates=2,5  
 Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

Bayer Corn Herbicides Demo				Trial Y	
Trial ID: 19S-TPAC-CORN-03		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson			
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: A. Kurtz - Bayer			
Pest Type	W Weed			W Weed	
Pest Code	SETPU			AMBTR	
Pest Scientific Name	Setaria helvola			Ambrosia trifida	
Pest Name	yellow foxtail			Giant ragweed	
Crop Type, Code	C ZEAMX	C ZEAMX		C ZEAMX	
BBCH Scale	BCOR	BCOR		BCOR	
Crop Scientific Name	Zea mays	Zea mays		Zea mays	
Crop Name	Corn	Corn		Corn	
Rating Date	Jun-17-2019	Jun-24-2019		Jun-24-2019	
Part Rated	PLOT -	PLOT -		PLOT -	
Rating Type	CONTRO	PHYGEN		CONTRO	
Rating Unit	%	%		%	
Sample Size					
Number of Subsamples	1	1		1	
Assessed By	D. JOHNSON	D. JOHNSON		D. JOHNSON	
Data Entry Date	Jun-10-2019	Jun-20-2019		Jun-10-2019	
Rating Timing	A1	A2		A2	
Days After First/Last Applic.	27 6	34 7		34 7	
Trt-Eval Interval					
Plant-Eval Interval	27 DP-1	34 DP-1		34 DP-1	
Days After Emergence	19 DE-1	26 DE-1		26 DE-1	
ARM Action Codes	P	P		P	
Number of Decimals	0	0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	4	5	6
6 BALANCE FLEXX	5 fl oz/a	A	98 a	4 cd	99 a
AATREX	1 qt/a	A			
LAUDIS	3 fl oz/a	C			
DEGREE EXTRA	2 qt/a	C			
DIFLEXX	8 fl oz/a	C			
ROUNDUP POWERMAX	32 fl oz/a	C			
MSO	0.5 % v/v	C			
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.



# Purdue Weed Science

Bayer Corn Herbicides Demo				Trial Y	
Trial ID: 19S-TPAC-CORN-03		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson			
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: A. Kurtz - Bayer			
Pest Type	W Weed			W Weed	
Pest Code	SETPU			AMBTR	
Pest Scientific Name	Setaria helvola			Ambrosia trifida	
Pest Name	yellow foxtail			Giant ragweed	
Crop Type, Code	C ZEAMX	C ZEAMX		C ZEAMX	
BBCH Scale	BCOR	BCOR		BCOR	
Crop Scientific Name	Zea mays	Zea mays		Zea mays	
Crop Name	Corn	Corn		Corn	
Rating Date	Jun-17-2019	Jun-24-2019		Jun-24-2019	
Part Rated	PLOT -	PLOT -		PLOT -	
Rating Type	CONTRO	PHYGEN		CONTRO	
Rating Unit	%	%		%	
Sample Size					
Number of Subsamples	1	1		1	
Assessed By	D. JOHNSON	D. JOHNSON		D. JOHNSON	
Data Entry Date	Jun-10-2019	Jun-20-2019		Jun-10-2019	
Rating Timing	A1	A2		A2	
Days After First/Last Applic.	27 6	34 7		34 7	
Trt-Eval Interval					
Plant-Eval Interval	27 DP-1	34 DP-1		34 DP-1	
Days After Emergence	19 DE-1	26 DE-1		26 DE-1	
ARM Action Codes	P	P		P	
Number of Decimals	0	0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	4	5	6
7 BALANCE FLEXX	5 fl oz/a	A	100 a	4 d	98 a
DEGREE EXTRA	2 qt/a	A			
LAUDIS	3 fl oz/a	C			
AATREX	1 qt/a	C			
DIFLEXX	8 fl oz/a	C			
ROUNDUP POWERMAX	32 fl oz/a	C			
MSO	0.5 % v/v	C			
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				Trial Y	
Trial ID: 19S-TPAC-CORN-03		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson			
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: A. Kurtz - Bayer			
Pest Type	W Weed			W Weed	
Pest Code	SETPU			AMBTR	
Pest Scientific Name	Setaria helvola			Ambrosia trifida	
Pest Name	yellow foxtail			Giant ragweed	
Crop Type, Code	C ZEAMX	C ZEAMX		C ZEAMX	
BBCH Scale	BCOR	BCOR		BCOR	
Crop Scientific Name	Zea mays	Zea mays		Zea mays	
Crop Name	Corn	Corn		Corn	
Rating Date	Jun-17-2019	Jun-24-2019		Jun-24-2019	
Part Rated	PLOT -	PLOT -		PLOT -	
Rating Type	CONTRO	PHYGEN		CONTRO	
Rating Unit	%	%		%	
Sample Size					
Number of Subsamples	1	1		1	
Assessed By	D. JOHNSON	D. JOHNSON		D. JOHNSON	
Data Entry Date	Jun-10-2019	Jun-20-2019		Jun-10-2019	
Rating Timing	A1	A2		A2	
Days After First/Last Applic.	27 6	34 7		34 7	
Trt-Eval Interval					
Plant-Eval Interval	27 DP-1	34 DP-1		34 DP-1	
Days After Emergence	19 DE-1	26 DE-1		26 DE-1	
ARM Action Codes	P	P		P	
Number of Decimals	0	0		0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	4	5	6
8 BALANCE FLEXX	5 fl oz/a	A	95 a	5 bcd	97 a
AATREX	1 qt/a	A			
LAUDIS	3 fl oz/a	C			
WARRANT	1.5 qt/a	C			
AATREX	0.5 qt/a	C			
DIFLEXX	8 fl oz/a	C			
ROUNDUP POWERMAX	32 fl oz/a	C			
MSO	0.5 % v/v	C			
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

Bayer Corn Herbicides Demo			
Trial ID: 19S-TPAC-CORN-03	Location: TPAC	Trial Y	
Protocol ID: 19S-TPAC-CORN-03	Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1	Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: A. Kurtz - Bayer			

	W Weed SETPU		W Weed AMBTR
Pest Type	Setaria helvola		Ambrosia trifida
Pest Code	yellow foxtail		Giant ragweed
Pest Scientific Name	C ZEAMX	C ZEAMX	C ZEAMX
Pest Name	BCOR	BCOR	BCOR
Crop Type, Code	Zea mays	Zea mays	Zea mays
BBCH Scale	Corn	Corn	Corn
Crop Scientific Name	Jun-17-2019	Jun-24-2019	Jun-24-2019
Crop Name	PLOT -	PLOT -	PLOT -
Rating Date	CONTRO	PHYGEN	CONTRO
Part Rated	%	%	%
Rating Type			
Rating Unit			
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-10-2019	Jun-20-2019	Jun-10-2019
Rating Timing	A1	A2	A2
Days After First/Last Applic.	27 6	34 7	34 7
Trt-Eval Interval			
Plant-Eval Interval	27 DP-1	34 DP-1	34 DP-1
Days After Emergence	19 DE-1	26 DE-1	26 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			4
			5
			6
9 DEGREE EXTRA	3.5 qt/a	A	100 a
CAPRENO	3 fl oz/a	C	
AATREX	0.5 qt/a	C	
DIFLEXX	8 fl oz/a	C	
ROUNDUP POWERMAX	32 fl oz/a	C	
COC	0.5 % v/v	C	
CLASS ACT RIDION	1 % v/v	C	
10 CAPRENO	3 fl oz/a	B	95 a
DEGREE EXTRA	3 qt/a	B	
DIFLEXX	8 fl oz/a	B	
ROUNDUP POWERMAX	32 fl oz/a	B	
COC	0.5 % v/v	B	
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

Bayer Corn Herbicides Demo			
Trial ID: 19S-TPAC-CORN-03	Location: TPAC	Trial Y	
Protocol ID: 19S-TPAC-CORN-03	Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1	Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: A. Kurtz - Bayer			

	W Weed SETPU		W Weed AMBTR
Pest Type	Setaria helvola		Ambrosia trifida
Pest Code	yellow foxtail		Giant ragweed
Pest Scientific Name	C ZEAMX	C ZEAMX	C ZEAMX
Pest Name	BCOR	BCOR	BCOR
Crop Type, Code	Zea mays	Zea mays	Zea mays
BBCH Scale	Corn	Corn	Corn
Crop Scientific Name	Jun-17-2019	Jun-24-2019	Jun-24-2019
Crop Name	PLOT -	PLOT -	PLOT -
Rating Date	CONTRO	PHYGEN	CONTRO
Part Rated	%	%	%
Rating Type			
Rating Unit	1	1	1
Sample Size	D. JOHNSON	D. JOHNSON	D. JOHNSON
Number of Subsamples	Jun-10-2019	Jun-20-2019	Jun-10-2019
Assessed By	A1	A2	A2
Data Entry Date	27 6	34 7	34 7
Rating Timing			
Days After First/Last Applic.	27 DP-1	34 DP-1	34 DP-1
Trt-Eval Interval	19 DE-1	26 DE-1	26 DE-1
Plant-Eval Interval	P	P	P
Days After Emergence	0	0	0
ARM Action Codes			
Number of Decimals			
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			4
			5
			6
11 ACURON	2 qt/a	A	100 a
HALEX GT	3.6 pt/a	C	3 d
AATREX	0.5 qt/a	C	97 a
DIFLEXX	8 fl oz/a	C	
ACTIVATOR 90 NIS	0.25 % v/v	C	
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>						Trial Y
Trial ID: 19S-TPAC-CORN-03		Location: TPAC				
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson				
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer				
		Sponsor Contact: A. Kurtz - Bayer				
Pest Type		W Weed		W Weed		
Pest Code		SETPU		AMBTR		
Pest Scientific Name		Setaria helvola		Ambrosia trifida		
Pest Name		yellow foxtail		Giant ragweed		
Crop Type, Code		C ZEAMX	C ZEAMX	C ZEAMX		
BBCH Scale		BCOR	BCOR	BCOR		
Crop Scientific Name		Zea mays	Zea mays	Zea mays		
Crop Name		Corn	Corn	Corn		
Rating Date		Jun-17-2019	Jun-24-2019	Jun-24-2019		
Part Rated		PLOT -	PLOT -	PLOT -		
Rating Type		CONTRO	PHYGEN	CONTRO		
Rating Unit		%	%	%		
Sample Size						
Number of Subsamples		1	1	1		
Assessed By		D. JOHNSON	D. JOHNSON	D. JOHNSON		
Data Entry Date		Jun-10-2019	Jun-20-2019	Jun-10-2019		
Rating Timing		A1	A2	A2		
Days After First/Last Applic.		27 6	34 7	34 7		
Trt-Eval Interval						
Plant-Eval Interval		27 DP-1	34 DP-1	34 DP-1		
Days After Emergence		19 DE-1	26 DE-1	26 DE-1		
ARM Action Codes		P	P	P		
Number of Decimals		0	0	0		
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code	4	5	6	
12 RESICORE	2.5 qt/a	A	100 a	4 d	98 a	
AATREX	1 qt/a	A				
DIFLEXX	8 fl oz/a	C				
AATREX	0.5 qt/a	C				
DURANGO DMA	1.5 pt/a	C				
COC	0.5 % v/v	C				
CLASS ACT RIDION	1 % v/v	C				
LSD P=.05			5.5	5.7	2.8	
Standard Deviation			3.8	4.0	1.9	
CV			3.84	63.62	1.97	
Grand Mean			98.5	6.2	98.1	
Levene's F			1.499	0.45	1.374	
Levene's Prob(F)			0.184	0.909	0.235	
Rank X2			.	.	.	

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.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				
Trial ID: 19S-TPAC-CORN-03		Location: TPAC		Trial Y
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: A. Kurtz - Bayer				
Pest Type	W Weed		W Weed	
Pest Code	SETPU		AMBTR	
Pest Scientific Name	Setaria helvola		Ambrosia trifida	
Pest Name	yellow foxtail		Giant ragweed	
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Rating Date	Jun-17-2019	Jun-24-2019	Jun-24-2019	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	CONTRO	PHYGEN	CONTRO	
Rating Unit	%	%	%	
Sample Size				
Number of Subsamples	1	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-10-2019	Jun-20-2019	Jun-10-2019	
Rating Timing	A1	A2	A2	
Days After First/Last Applic.	27 6	34 7	34 7	
Trt-Eval Interval				
Plant-Eval Interval	27 DP-1	34 DP-1	34 DP-1	
Days After Emergence	19 DE-1	26 DE-1	26 DE-1	
ARM Action Codes	P	P	P	
Number of Decimals	0	0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	4	5
P(Rank X2)				6
Skewness	-3.2968*	1.1248*	-1.2021*	
Kurtosis	11.3258*	0.8336	1.2207	
Replicate F	2.722	0.235	4.006	
Replicate Prob(F)	0.0619	0.8714	0.0164	
Treatment F	1.258	3.297	0.950	
Treatment Prob(F)	0.2970	0.0058	0.5044	

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.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				Trial Y	
Trial ID: 19S-TPAC-CORN-03		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson			
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: A. Kurtz - Bayer			
Pest Type	W Weed	W Weed			
Pest Code	SETFA	SETPU			
Pest Scientific Name	Setaria faberi	Setaria helvola			
Pest Name	Giant foxtail	yellow foxtail			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn		
Rating Date	Jul-24-2019	Jun-24-2019	Jul-1-2019		
Part Rated	PLOT -	PLOT -	PLOT -		
Rating Type	CONTRO	CONTRO	PHYGEN		
Rating Unit	%	%	%		
Sample Size					
Number of Subsamples	1	1	1		
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON		
Data Entry Date	Jun-10-2019	Jun-10-2019	Jun-20-2019		
Rating Timing	A2	A2	A3		
Days After First/Last Applic.	64 37	34 7	41 14		
Trt-Eval Interval					
Plant-Eval Interval	64 DP-1	34 DP-1	41 DP-1		
Days After Emergence	56 DE-1	26 DE-1	33 DE-1		
ARM Action Codes	P	P	P		
Number of Decimals	0	0	0		
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	7	8	9
1 UNTREATED CHECK			0	0	0
2 CORVUS	4.5 oz/a	A	100 a	100 a	9 a
AATREX	1 qt/a	A			
HARNESS MAX	55 fl oz/a	C			
AATREX	0.5 qt/a	C			
DIFLEXX	8 fl oz/a	C			
ROUNDUP POWERMAX	32 fl oz/a	C			
COC	0.5 % v/v	C			
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

Bayer Corn Herbicides Demo				Trial Y
Trial ID: 19S-TPAC-CORN-03		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: A. Kurtz - Bayer				
Pest Type	W Weed	W Weed		
Pest Code	SETFA	SETPU		
Pest Scientific Name	Setaria faberi	Setaria helvola		
Pest Name	Giant foxtail	yellow foxtail		
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Rating Date	Jul-24-2019	Jun-24-2019	Jul-1-2019	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	PHYGEN	
Rating Unit	%	%	%	
Sample Size				
Number of Subsamples	1	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-10-2019	Jun-10-2019	Jun-20-2019	
Rating Timing	A2	A2	A3	
Days After First/Last Applic.	64 37	34 7	41 14	
Trt-Eval Interval				
Plant-Eval Interval	64 DP-1	34 DP-1	41 DP-1	
Days After Emergence	56 DE-1	26 DE-1	33 DE-1	
ARM Action Codes	P	P	P	
Number of Decimals	0	0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	7	8
3 BALANCE FLEXX	5 fl oz/a	A	100 a	100 a
HARNESS XTRA 5.6L	1.5 qt/a	A		0 c
CAPRENO	3 fl oz/a	C		
AATREX	1 qt/a	C		
DIFLEXX	8 fl oz/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
COC	0.5 % v/v	C		
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.



# Purdue Weed Science

Bayer Corn Herbicides Demo				Trial Y
Trial ID: 19S-TPAC-CORN-03		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: A. Kurtz - Bayer				
Pest Type	W Weed	W Weed		
Pest Code	SETFA	SETPU		
Pest Scientific Name	Setaria faberi	Setaria helvola		
Pest Name	Giant foxtail	yellow foxtail		
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Rating Date	Jul-24-2019	Jun-24-2019	Jul-1-2019	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	PHYGEN	
Rating Unit	%	%	%	
Sample Size				
Number of Subsamples	1	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-10-2019	Jun-10-2019	Jun-20-2019	
Rating Timing	A2	A2	A3	
Days After First/Last Applic.	64 37	34 7	41 14	
Trt-Eval Interval				
Plant-Eval Interval	64 DP-1	34 DP-1	41 DP-1	
Days After Emergence	56 DE-1	26 DE-1	33 DE-1	
ARM Action Codes	P	P	P	
Number of Decimals	0	0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	7	8
4 CORVUS	4.5 fl oz/a	A	100 a	100 a
HARNESS XTRA 5.6L	1.5 qt/a	A		0 c
LAUDIS	3 fl oz/a	C		
AATREX	1 qt/a	C		
DIFLEXX	8 fl oz/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
MSO	0.5 % v/v	C		
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

Bayer Corn Herbicides Demo				Trial Y
Trial ID: 19S-TPAC-CORN-03		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: A. Kurtz - Bayer				
Pest Type	W Weed	W Weed		
Pest Code	SETFA	SETPU		
Pest Scientific Name	Setaria faberi	Setaria helvola		
Pest Name	Giant foxtail	yellow foxtail		
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Rating Date	Jul-24-2019	Jun-24-2019	Jul-1-2019	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	PHYGEN	
Rating Unit	%	%	%	
Sample Size				
Number of Subsamples	1	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-10-2019	Jun-10-2019	Jun-20-2019	
Rating Timing	A2	A2	A3	
Days After First/Last Applic.	64 37	34 7	41 14	
Trt-Eval Interval				
Plant-Eval Interval	64 DP-1	34 DP-1	41 DP-1	
Days After Emergence	56 DE-1	26 DE-1	33 DE-1	
ARM Action Codes	P	P	P	
Number of Decimals	0	0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	7	8
5 BALANCE FLEXX	5 fl oz/a	A	100 a	100 a
HARNESS XTRA 5.6L	1.5 qt/a	A		0 c
DIFLEXX DUO	32 fl oz/a	C		
AATREX	1 qt/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
COC	0.5 % v/v	C		
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

Bayer Corn Herbicides Demo				Trial Y
Trial ID: 19S-TPAC-CORN-03		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer		
		Sponsor Contact: A. Kurtz - Bayer		
Pest Type	W Weed	W Weed		
Pest Code	SETFA	SETPU		
Pest Scientific Name	Setaria faberi	Setaria helvola		
Pest Name	Giant foxtail	yellow foxtail		
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Rating Date	Jul-24-2019	Jun-24-2019	Jul-1-2019	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	PHYGEN	
Rating Unit	%	%	%	
Sample Size				
Number of Subsamples	1	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-10-2019	Jun-10-2019	Jun-20-2019	
Rating Timing	A2	A2	A3	
Days After First/Last Applic.	64 37	34 7	41 14	
Trt-Eval Interval				
Plant-Eval Interval	64 DP-1	34 DP-1	41 DP-1	
Days After Emergence	56 DE-1	26 DE-1	33 DE-1	
ARM Action Codes	P	P	P	
Number of Decimals	0	0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	7	8
6 BALANCE FLEXX	5 fl oz/a	A	100 a	100 a
AATREX	1 qt/a	A		
LAUDIS	3 fl oz/a	C		0 c
DEGREE EXTRA	2 qt/a	C		
DIFLEXX	8 fl oz/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
MSO	0.5 % v/v	C		
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

Bayer Corn Herbicides Demo				Trial Y
Trial ID: 19S-TPAC-CORN-03		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer		
		Sponsor Contact: A. Kurtz - Bayer		
Pest Type	W Weed	W Weed		
Pest Code	SETFA	SETPU		
Pest Scientific Name	Setaria faberi	Setaria helvola		
Pest Name	Giant foxtail	yellow foxtail		
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Rating Date	Jul-24-2019	Jun-24-2019	Jul-1-2019	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	PHYGEN	
Rating Unit	%	%	%	
Sample Size				
Number of Subsamples	1	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-10-2019	Jun-10-2019	Jun-20-2019	
Rating Timing	A2	A2	A3	
Days After First/Last Applic.	64 37	34 7	41 14	
Trt-Eval Interval				
Plant-Eval Interval	64 DP-1	34 DP-1	41 DP-1	
Days After Emergence	56 DE-1	26 DE-1	33 DE-1	
ARM Action Codes	P	P	P	
Number of Decimals	0	0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	7	8
7 BALANCE FLEXX	5 fl oz/a	A	100 a	100 a
DEGREE EXTRA	2 qt/a	A		
LAUDIS	3 fl oz/a	C		3 bc
AATREX	1 qt/a	C		
DIFLEXX	8 fl oz/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
MSO	0.5 % v/v	C		
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

Bayer Corn Herbicides Demo				Trial Y	
Trial ID: 19S-TPAC-CORN-03		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson			
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: A. Kurtz - Bayer			
Pest Type	W Weed	W Weed			
Pest Code	SETFA	SETPU			
Pest Scientific Name	Setaria faberi	Setaria helvola			
Pest Name	Giant foxtail	yellow foxtail			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn		
Rating Date	Jul-24-2019	Jun-24-2019	Jul-1-2019		
Part Rated	PLOT -	PLOT -	PLOT -		
Rating Type	CONTRO	CONTRO	PHYGEN		
Rating Unit	%	%	%		
Sample Size					
Number of Subsamples	1	1	1		
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON		
Data Entry Date	Jun-10-2019	Jun-10-2019	Jun-20-2019		
Rating Timing	A2	A2	A3		
Days After First/Last Applic.	64 37	34 7	41 14		
Trt-Eval Interval					
Plant-Eval Interval	64 DP-1	34 DP-1	41 DP-1		
Days After Emergence	56 DE-1	26 DE-1	33 DE-1		
ARM Action Codes	P	P	P		
Number of Decimals	0	0	0		
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	7	8	9
8 BALANCE FLEXX	5 fl oz/a	A	100 a	100 a	1 c
AATREX	1 qt/a	A			
LAUDIS	3 fl oz/a	C			
WARRANT	1.5 qt/a	C			
AATREX	0.5 qt/a	C			
DIFLEXX	8 fl oz/a	C			
ROUNDUP POWERMAX	32 fl oz/a	C			
MSO	0.5 % v/v	C			
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				Trial Y	
Trial ID: 19S-TPAC-CORN-03		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson			
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: A. Kurtz - Bayer			
Pest Type	W Weed	W Weed			
Pest Code	SETFA	SETPU			
Pest Scientific Name	Setaria faberi	Setaria helvola			
Pest Name	Giant foxtail	yellow foxtail			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn		
Rating Date	Jul-24-2019	Jun-24-2019	Jul-1-2019		
Part Rated	PLOT -	PLOT -	PLOT -		
Rating Type	CONTRO	CONTRO	PHYGEN		
Rating Unit	%	%	%		
Sample Size					
Number of Subsamples	1	1	1		
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON		
Data Entry Date	Jun-10-2019	Jun-10-2019	Jun-20-2019		
Rating Timing	A2	A2	A3		
Days After First/Last Applic.	64 37	34 7	41 14		
Trt-Eval Interval					
Plant-Eval Interval	64 DP-1	34 DP-1	41 DP-1		
Days After Emergence	56 DE-1	26 DE-1	33 DE-1		
ARM Action Codes	P	P	P		
Number of Decimals	0	0	0		
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	7	8	9
9 DEGREE EXTRA	3.5 qt/a	A	100 a	100 a	6 ab
CAPRENO	3 fl oz/a	C			
AATREX	0.5 qt/a	C			
DIFLEXX	8 fl oz/a	C			
ROUNDUP POWERMAX	32 fl oz/a	C			
COC	0.5 % v/v	C			
CLASS ACT RIDION	1 % v/v	C			
10 CAPRENO	3 fl oz/a	B	100 a	100 a	3 bc
DEGREE EXTRA	3 qt/a	B			
DIFLEXX	8 fl oz/a	B			
ROUNDUP POWERMAX	32 fl oz/a	B			
COC	0.5 % v/v	B			
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				Trial Y	
Trial ID: 19S-TPAC-CORN-03		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson			
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: A. Kurtz - Bayer			
Pest Type	W Weed	W Weed			
Pest Code	SETFA	SETPU			
Pest Scientific Name	Setaria faberi	Setaria helvola			
Pest Name	Giant foxtail	yellow foxtail			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn		
Rating Date	Jul-24-2019	Jun-24-2019	Jul-1-2019		
Part Rated	PLOT -	PLOT -	PLOT -		
Rating Type	CONTRO	CONTRO	PHYGEN		
Rating Unit	%	%	%		
Sample Size					
Number of Subsamples	1	1	1		
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON		
Data Entry Date	Jun-10-2019	Jun-10-2019	Jun-20-2019		
Rating Timing	A2	A2	A3		
Days After First/Last Applic.	64 37	34 7	41 14		
Trt-Eval Interval					
Plant-Eval Interval	64 DP-1	34 DP-1	41 DP-1		
Days After Emergence	56 DE-1	26 DE-1	33 DE-1		
ARM Action Codes	P	P	P		
Number of Decimals	0	0	0		
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	7	8	9
11 ACURON	2 qt/a	A	100 a	100 a	0 c
HALEX GT	3.6 pt/a	C			
AATREX	0.5 qt/a	C			
DIFLEXX	8 fl oz/a	C			
ACTIVATOR 90 NIS	0.25 % v/v	C			
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				Trial Y	
Trial ID: 19S-TPAC-CORN-03		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson			
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: A. Kurtz - Bayer			
Pest Type	W Weed	W Weed			
Pest Code	SETFA	SETPU			
Pest Scientific Name	Setaria faberi	Setaria helvola			
Pest Name	Giant foxtail	yellow foxtail			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn		
Rating Date	Jul-24-2019	Jun-24-2019	Jul-1-2019		
Part Rated	PLOT -	PLOT -	PLOT -		
Rating Type	CONTRO	CONTRO	PHYGEN		
Rating Unit	%	%	%		
Sample Size					
Number of Subsamples	1	1	1		
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON		
Data Entry Date	Jun-10-2019	Jun-10-2019	Jun-20-2019		
Rating Timing	A2	A2	A3		
Days After First/Last Applic.	64 37	34 7	41 14		
Trt-Eval Interval					
Plant-Eval Interval	64 DP-1	34 DP-1	41 DP-1		
Days After Emergence	56 DE-1	26 DE-1	33 DE-1		
ARM Action Codes	P	P	P		
Number of Decimals	0	0	0		
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	7	8	9
12 RESICORE	2.5 qt/a	A	100 a	100 a	0 c
AATREX	1 qt/a	A			
DIFLEXX	8 fl oz/a	C			
AATREX	0.5 qt/a	C			
DURANGO DMA	1.5 pt/a	C			
COC	0.5 % v/v	C			
CLASS ACT RIDION	1 % v/v	C			
LSD P=.05			.	0.2	4.7
Standard Deviation			0.0	0.2	3.2
CV			0.0	0.15	169.79
Grand Mean			100.0	100.0	1.9
Levene's F			0.00		2.683
Levene's Prob(F)			0.00*		0.016*
Rank X2			.	.	.

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.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.



# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>			
Trial ID: 19S-TPAC-CORN-03	Location: TPAC		Trial Y
Protocol ID: 19S-TPAC-CORN-03	Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1	Study Director: Dustin Johnson & Marcelo Zimmer		
	Sponsor Contact: A. Kurtz - Bayer		
Pest Type	W Weed	W Weed	
Pest Code	SETFA	SETPU	
Pest Scientific Name	Setaria faberi	Setaria helvola	
Pest Name	Giant foxtail	yellow foxtail	
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Rating Date	Jul-24-2019	Jun-24-2019	Jul-1-2019
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO	PHYGEN
Rating Unit	%	%	%
Sample Size			
Number of Subsamples	1	1	1
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON
Data Entry Date	Jun-10-2019	Jun-10-2019	Jun-20-2019
Rating Timing	A2	A2	A3
Days After First/Last Applic.	64 37	34 7	41 14
Trt-Eval Interval			
Plant-Eval Interval	64 DP-1	34 DP-1	41 DP-1
Days After Emergence	56 DE-1	26 DE-1	33 DE-1
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
	7	8	9
P(Rank X2)	.	.	.
Skewness	.	-6.6333*	1.9477*
Kurtosis	.	44.0*	2.525*
Replicate F	0.000	1.000	1.627
Replicate Prob(F)	1.0000	0.4064	0.2040
Treatment F	0.000	1.000	3.247
Treatment Prob(F)	1.0000	0.4654	0.0060

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.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				Trial Y	
Trial ID: 19S-TPAC-CORN-03		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson			
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: A. Kurtz - Bayer			
Pest Type		W Weed	W Weed	W Weed	
Pest Code		AMBTR	SETFA	SETPU	
Pest Scientific Name		Ambrosia trifida	Setaria faberi	Setaria helvola	
Pest Name		Giant ragweed	Giant foxtail	yellow foxtail	
Crop Type, Code		C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale		BCOR	BCOR	BCOR	
Crop Scientific Name		Zea mays	Zea mays	Zea mays	
Crop Name		Corn	Corn	Corn	
Rating Date		Jul-1-2019	Jul-1-2019	Jul-1-2019	
Part Rated		PLOT -	PLOT -	PLOT -	
Rating Type		CONTRO	CONTRO	CONTRO	
Rating Unit		%	%	%	
Sample Size					
Number of Subsamples		1	1	1	
Assessed By		D. JOHNSON	D. JOHNSON	D. JOHNSON	
Data Entry Date		Jun-10-2019	Jun-10-2019	Jun-10-2019	
Rating Timing		A3	A3	A3	
Days After First/Last Applic.		41 14	41 14	41 14	
Trt-Eval Interval					
Plant-Eval Interval		41 DP-1	41 DP-1	41 DP-1	
Days After Emergence		33 DE-1	33 DE-1	33 DE-1	
ARM Action Codes		P	P	P	
Number of Decimals		0	0	0	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	10	11	12
1 UNTREATED CHECK			0	0	0
2 CORVUS	4.5 oz/a	A	100 a	100 a	100 a
AATREX	1 qt/a	A			
HARNESS MAX	55 fl oz/a	C			
AATREX	0.5 qt/a	C			
DIFLEXX	8 fl oz/a	C			
ROUNDUP POWERMAX	32 fl oz/a	C			
COC	0.5 % v/v	C			
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				Trial Y	
Trial ID: 19S-TPAC-CORN-03		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson			
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: A. Kurtz - Bayer			
Pest Type	W Weed	W Weed	W Weed		
Pest Code	AMBTR	SETFA	SETPU		
Pest Scientific Name	Ambrosia trifida	Setaria faberi	Setaria helvola		
Pest Name	Giant ragweed	Giant foxtail	yellow foxtail		
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn		
Rating Date	Jul-1-2019	Jul-1-2019	Jul-1-2019		
Part Rated	PLOT -	PLOT -	PLOT -		
Rating Type	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%		
Sample Size					
Number of Subsamples	1	1	1		
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON		
Data Entry Date	Jun-10-2019	Jun-10-2019	Jun-10-2019		
Rating Timing	A3	A3	A3		
Days After First/Last Applic.	41 14	41 14	41 14		
Trt-Eval Interval					
Plant-Eval Interval	41 DP-1	41 DP-1	41 DP-1		
Days After Emergence	33 DE-1	33 DE-1	33 DE-1		
ARM Action Codes	P	P	P		
Number of Decimals	0	0	0		
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code		10	11
3 BALANCE FLEXX	5 fl oz/a	A		100 a	100 a
HARNESS XTRA 5.6L	1.5 qt/a	A			
CAPRENO	3 fl oz/a	C			
AATREX	1 qt/a	C			
DIFLEXX	8 fl oz/a	C			
ROUNDUP POWERMAX	32 fl oz/a	C			
COC	0.5 % v/v	C			
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				Trial Y	
Trial ID: 19S-TPAC-CORN-03		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson			
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: A. Kurtz - Bayer			
Pest Type	W Weed	W Weed	W Weed		
Pest Code	AMBTR	SETFA	SETPU		
Pest Scientific Name	Ambrosia trifida	Setaria faberi	Setaria helvola		
Pest Name	Giant ragweed	Giant foxtail	yellow foxtail		
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn		
Rating Date	Jul-1-2019	Jul-1-2019	Jul-1-2019		
Part Rated	PLOT -	PLOT -	PLOT -		
Rating Type	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%		
Sample Size					
Number of Subsamples	1	1	1		
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON		
Data Entry Date	Jun-10-2019	Jun-10-2019	Jun-10-2019		
Rating Timing	A3	A3	A3		
Days After First/Last Applic.	41 14	41 14	41 14		
Trt-Eval Interval					
Plant-Eval Interval	41 DP-1	41 DP-1	41 DP-1		
Days After Emergence	33 DE-1	33 DE-1	33 DE-1		
ARM Action Codes	P	P	P		
Number of Decimals	0	0	0		
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code			
			10	11	12
4 CORVUS	4.5 fl oz/a	A	100 a	100 a	100 a
HARNESS XTRA 5.6L	1.5 qt/a	A			
LAUDIS	3 fl oz/a	C			
AATREX	1 qt/a	C			
DIFLEXX	8 fl oz/a	C			
ROUNDUP POWERMAX	32 fl oz/a	C			
MSO	0.5 % v/v	C			
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				Trial Y	
Trial ID: 19S-TPAC-CORN-03		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson			
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: A. Kurtz - Bayer			
Pest Type	W Weed	W Weed	W Weed		
Pest Code	AMBTR	SETFA	SETPU		
Pest Scientific Name	Ambrosia trifida	Setaria faberi	Setaria helvola		
Pest Name	Giant ragweed	Giant foxtail	yellow foxtail		
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn		
Rating Date	Jul-1-2019	Jul-1-2019	Jul-1-2019		
Part Rated	PLOT -	PLOT -	PLOT -		
Rating Type	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%		
Sample Size					
Number of Subsamples	1	1	1		
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON		
Data Entry Date	Jun-10-2019	Jun-10-2019	Jun-10-2019		
Rating Timing	A3	A3	A3		
Days After First/Last Applic.	41 14	41 14	41 14		
Trt-Eval Interval					
Plant-Eval Interval	41 DP-1	41 DP-1	41 DP-1		
Days After Emergence	33 DE-1	33 DE-1	33 DE-1		
ARM Action Codes	P	P	P		
Number of Decimals	0	0	0		
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	10	11	12
5 BALANCE FLEXX	5 fl oz/a	A	97 bc	100 a	100 a
HARNESS XTRA 5.6L	1.5 qt/a	A			
DIFLEXX DUO	32 fl oz/a	C			
AATREX	1 qt/a	C			
ROUNDUP POWERMAX	32 fl oz/a	C			
COC	0.5 % v/v	C			
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

Bayer Corn Herbicides Demo				Trial Y		
Trial ID: 19S-TPAC-CORN-03		Location: TPAC				
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson				
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer				
		Sponsor Contact: A. Kurtz - Bayer				
Pest Type	W Weed	W Weed	W Weed			
Pest Code	AMBTR	SETFA	SETPU			
Pest Scientific Name	Ambrosia trifida	Setaria faberi	Setaria helvola			
Pest Name	Giant ragweed	Giant foxtail	yellow foxtail			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays			
Crop Name	Corn	Corn	Corn			
Rating Date	Jul-1-2019	Jul-1-2019	Jul-1-2019			
Part Rated	PLOT -	PLOT -	PLOT -			
Rating Type	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%			
Sample Size						
Number of Subsamples	1	1	1			
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON			
Data Entry Date	Jun-10-2019	Jun-10-2019	Jun-10-2019			
Rating Timing	A3	A3	A3			
Days After First/Last Applic.	41 14	41 14	41 14			
Trt-Eval Interval						
Plant-Eval Interval	41 DP-1	41 DP-1	41 DP-1			
Days After Emergence	33 DE-1	33 DE-1	33 DE-1			
ARM Action Codes	P	P	P			
Number of Decimals	0	0	0			
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code		10	11	12
6 BALANCE FLEXX	5 fl oz/a	A		99 a	100 a	100 a
AATREX	1 qt/a	A				
LAUDIS	3 fl oz/a	C				
DEGREE EXTRA	2 qt/a	C				
DIFLEXX	8 fl oz/a	C				
ROUNDUP POWERMAX	32 fl oz/a	C				
MSO	0.5 % v/v	C				
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				Trial Y	
Trial ID: 19S-TPAC-CORN-03		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson			
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: A. Kurtz - Bayer			
Pest Type	W Weed	W Weed	W Weed		
Pest Code	AMBTR	SETFA	SETPU		
Pest Scientific Name	Ambrosia trifida	Setaria faberi	Setaria helvola		
Pest Name	Giant ragweed	Giant foxtail	yellow foxtail		
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn		
Rating Date	Jul-1-2019	Jul-1-2019	Jul-1-2019		
Part Rated	PLOT -	PLOT -	PLOT -		
Rating Type	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%		
Sample Size					
Number of Subsamples	1	1	1		
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON		
Data Entry Date	Jun-10-2019	Jun-10-2019	Jun-10-2019		
Rating Timing	A3	A3	A3		
Days After First/Last Applic.	41 14	41 14	41 14		
Trt-Eval Interval					
Plant-Eval Interval	41 DP-1	41 DP-1	41 DP-1		
Days After Emergence	33 DE-1	33 DE-1	33 DE-1		
ARM Action Codes	P	P	P		
Number of Decimals	0	0	0		
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	10	11	12
7 BALANCE FLEXX	5 fl oz/a	A	99 ab	100 a	100 a
DEGREE EXTRA	2 qt/a	A			
LAUDIS	3 fl oz/a	C			
AATREX	1 qt/a	C			
DIFLEXX	8 fl oz/a	C			
ROUNDUP POWERMAX	32 fl oz/a	C			
MSO	0.5 % v/v	C			
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				Trial Y	
Trial ID: 19S-TPAC-CORN-03		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson			
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: A. Kurtz - Bayer			
Pest Type	W Weed	W Weed	W Weed		
Pest Code	AMBTR	SETFA	SETPU		
Pest Scientific Name	Ambrosia trifida	Setaria faberi	Setaria helvola		
Pest Name	Giant ragweed	Giant foxtail	yellow foxtail		
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn		
Rating Date	Jul-1-2019	Jul-1-2019	Jul-1-2019		
Part Rated	PLOT -	PLOT -	PLOT -		
Rating Type	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%		
Sample Size					
Number of Subsamples	1	1	1		
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON		
Data Entry Date	Jun-10-2019	Jun-10-2019	Jun-10-2019		
Rating Timing	A3	A3	A3		
Days After First/Last Applic.	41 14	41 14	41 14		
Trt-Eval Interval					
Plant-Eval Interval	41 DP-1	41 DP-1	41 DP-1		
Days After Emergence	33 DE-1	33 DE-1	33 DE-1		
ARM Action Codes	P	P	P		
Number of Decimals	0	0	0		
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	10	11	12
8 BALANCE FLEXX	5 fl oz/a	A	98 ab	100 a	100 a
AATREX	1 qt/a	A			
LAUDIS	3 fl oz/a	C			
WARRANT	1.5 qt/a	C			
AATREX	0.5 qt/a	C			
DIFLEXX	8 fl oz/a	C			
ROUNDUP POWERMAX	32 fl oz/a	C			
MSO	0.5 % v/v	C			
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.



# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>						
Trial ID: 19S-TPAC-CORN-03		Location: TPAC		Trial Y		
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson				
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer				
		Sponsor Contact: A. Kurtz - Bayer				
Pest Type	W Weed	W Weed	W Weed			
Pest Code	AMBTR	SETFA	SETPU			
Pest Scientific Name	Ambrosia trifida	Setaria faberi	Setaria helvola			
Pest Name	Giant ragweed	Giant foxtail	yellow foxtail			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays			
Crop Name	Corn	Corn	Corn			
Rating Date	Jul-1-2019	Jul-1-2019	Jul-1-2019			
Part Rated	PLOT -	PLOT -	PLOT -			
Rating Type	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%			
Sample Size						
Number of Subsamples	1	1	1			
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON			
Data Entry Date	Jun-10-2019	Jun-10-2019	Jun-10-2019			
Rating Timing	A3	A3	A3			
Days After First/Last Applic.	41 14	41 14	41 14			
Trt-Eval Interval						
Plant-Eval Interval	41 DP-1	41 DP-1	41 DP-1			
Days After Emergence	33 DE-1	33 DE-1	33 DE-1			
ARM Action Codes	P	P	P			
Number of Decimals	0	0	0			
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code		10	11	12
9 DEGREE EXTRA	3.5 qt/a	A		99 ab	100 a	100 a
CAPRENO	3 fl oz/a	C				
AATREX	0.5 qt/a	C				
DIFLEXX	8 fl oz/a	C				
ROUNDUP POWERMAX	32 fl oz/a	C				
COC	0.5 % v/v	C				
CLASS ACT RIDION	1 % v/v	C				
10 CAPRENO	3 fl oz/a	B		96 c	100 a	100 a
DEGREE EXTRA	3 qt/a	B				
DIFLEXX	8 fl oz/a	B				
ROUNDUP POWERMAX	32 fl oz/a	B				
COC	0.5 % v/v	B				
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				Trial Y		
Trial ID: 19S-TPAC-CORN-03		Location: TPAC				
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson				
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer				
				Sponsor Contact: A. Kurtz - Bayer		
Pest Type	W Weed	W Weed	W Weed			
Pest Code	AMBTR	SETFA	SETPU			
Pest Scientific Name	Ambrosia trifida	Setaria faberi	Setaria helvola			
Pest Name	Giant ragweed	Giant foxtail	yellow foxtail			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays			
Crop Name	Corn	Corn	Corn			
Rating Date	Jul-1-2019	Jul-1-2019	Jul-1-2019			
Part Rated	PLOT -	PLOT -	PLOT -			
Rating Type	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%			
Sample Size						
Number of Subsamples	1	1	1			
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON			
Data Entry Date	Jun-10-2019	Jun-10-2019	Jun-10-2019			
Rating Timing	A3	A3	A3			
Days After First/Last Applic.	41 14	41 14	41 14			
Trt-Eval Interval						
Plant-Eval Interval	41 DP-1	41 DP-1	41 DP-1			
Days After Emergence	33 DE-1	33 DE-1	33 DE-1			
ARM Action Codes	P	P	P			
Number of Decimals	0	0	0			
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code		10	11	12
11 ACURON	2 qt/a	A		99 a	100 a	100 a
HALEX GT	3.6 pt/a	C				
AATREX	0.5 qt/a	C				
DIFLEXX	8 fl oz/a	C				
ACTIVATOR 90 NIS	0.25 % v/v	C				
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>						
Trial ID: 19S-TPAC-CORN-03		Location: TPAC		Trial Y		
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson				
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer				
		Sponsor Contact: A. Kurtz - Bayer				
Pest Type	W Weed	W Weed	W Weed			
Pest Code	AMBTR	SETFA	SETPU			
Pest Scientific Name	Ambrosia trifida	Setaria faberi	Setaria helvola			
Pest Name	Giant ragweed	Giant foxtail	yellow foxtail			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX			
BBCH Scale	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays			
Crop Name	Corn	Corn	Corn			
Rating Date	Jul-1-2019	Jul-1-2019	Jul-1-2019			
Part Rated	PLOT -	PLOT -	PLOT -			
Rating Type	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%			
Sample Size						
Number of Subsamples	1	1	1			
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON			
Data Entry Date	Jun-10-2019	Jun-10-2019	Jun-10-2019			
Rating Timing	A3	A3	A3			
Days After First/Last Applic.	41 14	41 14	41 14			
Trt-Eval Interval						
Plant-Eval Interval	41 DP-1	41 DP-1	41 DP-1			
Days After Emergence	33 DE-1	33 DE-1	33 DE-1			
ARM Action Codes	P	P	P			
Number of Decimals	0	0	0			
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code		10	11	12
12 RESICORE	2.5 qt/a	A		97 bc	100 a	100 a
AATREX	1 qt/a	A				
DIFLEXX	8 fl oz/a	C				
AATREX	0.5 qt/a	C				
DURANGO DMA	1.5 pt/a	C				
COC	0.5 % v/v	C				
CLASS ACT RIDION	1 % v/v	C				
LSD P=.05				1.9	.	.
Standard Deviation				1.3	0.0	0.0
CV				1.31	0.0	0.0
Grand Mean				98.6	100.0	100.0
Levene's F				3.347	0.00	0.00
Levene's Prob(F)				0.004*	0.00*	0.00*
Rank X2				.	.	.

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.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				
Trial ID: 19S-TPAC-CORN-03		Location: TPAC		Trial Y
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: A. Kurtz - Bayer				
Pest Type	W Weed	W Weed	W Weed	
Pest Code	AMBTR	SETFA	SETPU	
Pest Scientific Name	Ambrosia trifida	Setaria faberi	Setaria helvola	
Pest Name	Giant ragweed	Giant foxtail	yellow foxtail	
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Rating Date	Jul-1-2019	Jul-1-2019	Jul-1-2019	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	CONTRO	
Rating Unit	%	%	%	
Sample Size				
Number of Subsamples	1	1	1	
Assessed By	D. JOHNSON	D. JOHNSON	D. JOHNSON	
Data Entry Date	Jun-10-2019	Jun-10-2019	Jun-10-2019	
Rating Timing	A3	A3	A3	
Days After First/Last Applic.	41 14	41 14	41 14	
Trt-Eval Interval				
Plant-Eval Interval	41 DP-1	41 DP-1	41 DP-1	
Days After Emergence	33 DE-1	33 DE-1	33 DE-1	
ARM Action Codes	P	P	P	
Number of Decimals	0	0	0	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code		
			10	11
				12
P(Rank X2)			.	.
Skewness			-1.564*	.
Kurtosis			2.3138*	.
Replicate F			6.109	0.000
Replicate Prob(F)			0.0023	1.0000
Treatment F			3.766	0.000
Treatment Prob(F)			0.0023	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.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				
Trial ID: 19S-TPAC-CORN-03		Location: TPAC		Trial Y
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: A. Kurtz - Bayer				
Pest Type	W Weed	W Weed		
Pest Code	AMBTR	SETFA		
Pest Scientific Name	Ambrosia trifida	Setaria faberi		
Pest Name	Giant ragweed	Giant foxtail		
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Rating Date	Jul-15-2019	Jul-15-2019	Oct-17-2019	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	YIELD	
Rating Unit	%	%	lb/plot	
Sample Size			1 PLOT	
Number of Subsamples	1	1	1	
Assessed By	M. ZIMMER	M. ZIMMER	J. HAARMANN	
Data Entry Date	Jun-10-2019	Jun-10-2019	Oct-22-2019	
Rating Timing	A4	A4	H1	
Days After First/Last Applic.	55 28	55 28	149 122	
Trt-Eval Interval	55 DA-A	55 DA-A		
Plant-Eval Interval	55 DP-1	55 DP-1	149 DP-1	
Days After Emergence	47 DE-1	47 DE-1	141 DE-1	
ARM Action Codes	P	P		
Number of Decimals	0	0	1	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	13	14
1 UNTREATED CHECK			0	0
2 CORVUS	4.5 oz/a	A	100 a	100 a
AATREX	1 qt/a	A		
HARNES MAX	55 fl oz/a	C		
AATREX	0.5 qt/a	C		
DIFLEXX	8 fl oz/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
COC	0.5 % v/v	C		
CLASS ACT RIDION	1 % v/v	C		
				12.3
				44.1 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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>			Trial Y
Trial ID: 19S-TPAC-CORN-03	Location: TPAC		
Protocol ID: 19S-TPAC-CORN-03	Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1	Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: A. Kurtz - Bayer			

Pest Type	W Weed	W Weed	
Pest Code	AMBTR	SETFA	
Pest Scientific Name	Ambrosia trifida	Setaria faberi	
Pest Name	Giant ragweed	Giant foxtail	
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Rating Date	Jul-15-2019	Jul-15-2019	Oct-17-2019
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO	YIELD
Rating Unit	%	%	lb/plot
Sample Size			1 PLOT
Number of Subsamples	1	1	1
Assessed By	M. ZIMMER	M. ZIMMER	J. HAARMANN
Data Entry Date	Jun-10-2019	Jun-10-2019	Oct-22-2019
Rating Timing	A4	A4	H1
Days After First/Last Applic.	55 28	55 28	149 122
Trt-Eval Interval	55 DA-A	55 DA-A	
Plant-Eval Interval	55 DP-1	55 DP-1	149 DP-1
Days After Emergence	47 DE-1	47 DE-1	141 DE-1
ARM Action Codes	P	P	
Number of Decimals	0	0	1
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			13
			14
			15
3 BALANCE FLEXX	5 fl oz/a A		100 a
HARNESS XTRA 5.6L	1.5 qt/a A		100 a
CAPRENO	3 fl oz/a C		44.3 a
AATREX	1 qt/a C		
DIFLEXX	8 fl oz/a C		
ROUNDUP POWERMAX	32 fl oz/a C		
COC	0.5 % v/v C		
CLASS ACT RIDION	1 % v/v 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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				
Trial ID: 19S-TPAC-CORN-03		Location: TPAC		Trial Y
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: A. Kurtz - Bayer				
Pest Type	W Weed	W Weed		
Pest Code	AMBTR	SETFA		
Pest Scientific Name	Ambrosia trifida	Setaria faberi		
Pest Name	Giant ragweed	Giant foxtail		
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Rating Date	Jul-15-2019	Jul-15-2019	Oct-17-2019	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	YIELD	
Rating Unit	%	%	lb/plot	
Sample Size			1 PLOT	
Number of Subsamples	1	1	1	
Assessed By	M. ZIMMER	M. ZIMMER	J. HAARMANN	
Data Entry Date	Jun-10-2019	Jun-10-2019	Oct-22-2019	
Rating Timing	A4	A4	H1	
Days After First/Last Applic.	55 28	55 28	149 122	
Trt-Eval Interval	55 DA-A	55 DA-A		
Plant-Eval Interval	55 DP-1	55 DP-1	149 DP-1	
Days After Emergence	47 DE-1	47 DE-1	141 DE-1	
ARM Action Codes	P	P		
Number of Decimals	0	0	1	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	13	14
4 CORVUS	4.5 fl oz/a	A	100 a	100 a
HARNESS XTRA 5.6L	1.5 qt/a	A		
LAUDIS	3 fl oz/a	C		
AATREX	1 qt/a	C		
DIFLEXX	8 fl oz/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
MSO	0.5 % v/v	C		
CLASS ACT RIDION	1 % v/v	C		47.3 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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>			
Trial ID: 19S-TPAC-CORN-03	Location: TPAC		Trial Y
Protocol ID: 19S-TPAC-CORN-03	Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1	Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: A. Kurtz - Bayer			
Pest Type	W Weed	W Weed	
Pest Code	AMBTR	SETFA	
Pest Scientific Name	Ambrosia trifida	Setaria faberi	
Pest Name	Giant ragweed	Giant foxtail	
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Rating Date	Jul-15-2019	Jul-15-2019	Oct-17-2019
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO	YIELD
Rating Unit	%	%	lb/plot
Sample Size			1 PLOT
Number of Subsamples	1	1	1
Assessed By	M. ZIMMER	M. ZIMMER	J. HAARMANN
Data Entry Date	Jun-10-2019	Jun-10-2019	Oct-22-2019
Rating Timing	A4	A4	H1
Days After First/Last Applic.	55 28	55 28	149 122
Trt-Eval Interval	55 DA-A	55 DA-A	
Plant-Eval Interval	55 DP-1	55 DP-1	149 DP-1
Days After Emergence	47 DE-1	47 DE-1	141 DE-1
ARM Action Codes	P	P	
Number of Decimals	0	0	1
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			13
			14
			15
5 BALANCE FLEXX	5 fl oz/a	A	
HARNESS XTRA 5.6L	1.5 qt/a	A	
DIFLEXX DUO	32 fl oz/a	C	
AATREX	1 qt/a	C	
ROUNDUP POWERMAX	32 fl oz/a	C	
COC	0.5 % v/v	C	
CLASS ACT RIDION	1 % v/v	C	
			100 a
			100 a
			42.5 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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.



# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>			
Trial ID: 19S-TPAC-CORN-03	Location: TPAC		Trial Y
Protocol ID: 19S-TPAC-CORN-03	Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1	Study Director: Dustin Johnson & Marcelo Zimmer		
	Sponsor Contact: A. Kurtz - Bayer		
Pest Type	W Weed	W Weed	
Pest Code	AMBTR	SETFA	
Pest Scientific Name	Ambrosia trifida	Setaria faberi	
Pest Name	Giant ragweed	Giant foxtail	
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Rating Date	Jul-15-2019	Jul-15-2019	Oct-17-2019
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO	YIELD
Rating Unit	%	%	lb/plot
Sample Size			1 PLOT
Number of Subsamples	1	1	1
Assessed By	M. ZIMMER	M. ZIMMER	J. HAARMANN
Data Entry Date	Jun-10-2019	Jun-10-2019	Oct-22-2019
Rating Timing	A4	A4	H1
Days After First/Last Applic.	55 28	55 28	149 122
Trt-Eval Interval	55 DA-A	55 DA-A	
Plant-Eval Interval	55 DP-1	55 DP-1	149 DP-1
Days After Emergence	47 DE-1	47 DE-1	141 DE-1
ARM Action Codes	P	P	
Number of Decimals	0	0	1
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			13 14 15
6 BALANCE FLEXX	5 fl oz/a	A	100 a 100 a 43.7 a
AATREX	1 qt/a	A	
LAUDIS	3 fl oz/a	C	
DEGREE EXTRA	2 qt/a	C	
DIFLEXX	8 fl oz/a	C	
ROUNDUP POWERMAX	32 fl oz/a	C	
MSO	0.5 % v/v	C	
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

Bayer Corn Herbicides Demo				Trial Y	
Trial ID: 19S-TPAC-CORN-03		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson			
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: A. Kurtz - Bayer			
Pest Type	W Weed	W Weed			
Pest Code	AMBTR	SETFA			
Pest Scientific Name	Ambrosia trifida	Setaria faberi			
Pest Name	Giant ragweed	Giant foxtail			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn		
Rating Date	Jul-15-2019	Jul-15-2019	Oct-17-2019		
Part Rated	PLOT -	PLOT -	PLOT -		
Rating Type	CONTRO	CONTRO	YIELD		
Rating Unit	%	%	lb/plot		
Sample Size			1 PLOT		
Number of Subsamples	1	1	1		
Assessed By	M. ZIMMER	M. ZIMMER	J. HAARMANN		
Data Entry Date	Jun-10-2019	Jun-10-2019	Oct-22-2019		
Rating Timing	A4	A4	H1		
Days After First/Last Applic.	55 28	55 28	149 122		
Trt-Eval Interval	55 DA-A	55 DA-A			
Plant-Eval Interval	55 DP-1	55 DP-1	149 DP-1		
Days After Emergence	47 DE-1	47 DE-1	141 DE-1		
ARM Action Codes	P	P			
Number of Decimals	0	0	1		
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	13	14	15
7 BALANCE FLEXX	5 fl oz/a	A	100 a	100 a	41.4 a
DEGREE EXTRA	2 qt/a	A			
LAUDIS	3 fl oz/a	C			
AATREX	1 qt/a	C			
DIFLEXX	8 fl oz/a	C			
ROUNDUP POWERMAX	32 fl oz/a	C			
MSO	0.5 % v/v	C			
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>			
Trial ID: 19S-TPAC-CORN-03	Location: TPAC		Trial Y
Protocol ID: 19S-TPAC-CORN-03	Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1	Study Director: Dustin Johnson & Marcelo Zimmer		
	Sponsor Contact: A. Kurtz - Bayer		
Pest Type	W Weed	W Weed	
Pest Code	AMBTR	SETFA	
Pest Scientific Name	Ambrosia trifida	Setaria faberi	
Pest Name	Giant ragweed	Giant foxtail	
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Rating Date	Jul-15-2019	Jul-15-2019	Oct-17-2019
Part Rated	PLOT -	PLOT -	PLOT -
Rating Type	CONTRO	CONTRO	YIELD
Rating Unit	%	%	lb/plot
Sample Size			1 PLOT
Number of Subsamples	1	1	1
Assessed By	M. ZIMMER	M. ZIMMER	J. HAARMANN
Data Entry Date	Jun-10-2019	Jun-10-2019	Oct-22-2019
Rating Timing	A4	A4	H1
Days After First/Last Applic.	55 28	55 28	149 122
Trt-Eval Interval	55 DA-A	55 DA-A	
Plant-Eval Interval	55 DP-1	55 DP-1	149 DP-1
Days After Emergence	47 DE-1	47 DE-1	141 DE-1
ARM Action Codes	P	P	
Number of Decimals	0	0	1
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			13
			14
			15
8 BALANCE FLEXX	5 fl oz/a A		100 a
AATREX	1 qt/a A		100 a
LAUDIS	3 fl oz/a C		41.9 a
WARRANT	1.5 qt/a C		
AATREX	0.5 qt/a C		
DIFLEXX	8 fl oz/a C		
ROUNDUP POWERMAX	32 fl oz/a C		
MSO	0.5 % v/v C		
CLASS ACT RIDION	1 % v/v 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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>						
Trial ID: 19S-TPAC-CORN-03		Location: TPAC		Trial Y		
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson				
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer				
		Sponsor Contact: A. Kurtz - Bayer				
Pest Type	W Weed	W Weed				
Pest Code	AMBTR	SETFA				
Pest Scientific Name	Ambrosia trifida	Setaria faberi				
Pest Name	Giant ragweed	Giant foxtail				
Crop Type, Code	C ZEAMX	C ZEAMX		C ZEAMX		
BBCH Scale	BCOR	BCOR		BCOR		
Crop Scientific Name	Zea mays	Zea mays		Zea mays		
Crop Name	Corn	Corn		Corn		
Rating Date	Jul-15-2019	Jul-15-2019		Oct-17-2019		
Part Rated	PLOT -	PLOT -		PLOT -		
Rating Type	CONTRO	CONTRO		YIELD		
Rating Unit	%	%		lb/plot		
Sample Size				1 PLOT		
Number of Subsamples	1	1		1		
Assessed By	M. ZIMMER	M. ZIMMER		J. HAARMANN		
Data Entry Date	Jun-10-2019	Jun-10-2019		Oct-22-2019		
Rating Timing	A4	A4		H1		
Days After First/Last Applic.	55 28	55 28		149 122		
Trt-Eval Interval	55 DA-A	55 DA-A				
Plant-Eval Interval	55 DP-1	55 DP-1		149 DP-1		
Days After Emergence	47 DE-1	47 DE-1		141 DE-1		
ARM Action Codes	P	P				
Number of Decimals	0	0		1		
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code	13	14	15	
9 DEGREE EXTRA	3.5 qt/a	A	100 a	100 a	41.4 a	
CAPRENO	3 fl oz/a	C				
AATREX	0.5 qt/a	C				
DIFLEXX	8 fl oz/a	C				
ROUNDUP POWERMAX	32 fl oz/a	C				
COC	0.5 % v/v	C				
CLASS ACT RIDION	1 % v/v	C				
10 CAPRENO	3 fl oz/a	B	99 b	100 a	40.5 a	
DEGREE EXTRA	3 qt/a	B				
DIFLEXX	8 fl oz/a	B				
ROUNDUP POWERMAX	32 fl oz/a	B				
COC	0.5 % v/v	B				
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				Trial Y	
Trial ID: 19S-TPAC-CORN-03		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson			
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: A. Kurtz - Bayer			
Pest Type	W Weed	W Weed			
Pest Code	AMBTR	SETFA			
Pest Scientific Name	Ambrosia trifida	Setaria faberi			
Pest Name	Giant ragweed	Giant foxtail			
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn		
Rating Date	Jul-15-2019	Jul-15-2019	Oct-17-2019		
Part Rated	PLOT -	PLOT -	PLOT -		
Rating Type	CONTRO	CONTRO	YIELD		
Rating Unit	%	%	lb/plot		
Sample Size			1 PLOT		
Number of Subsamples	1	1	1		
Assessed By	M. ZIMMER	M. ZIMMER	J. HAARMANN		
Data Entry Date	Jun-10-2019	Jun-10-2019	Oct-22-2019		
Rating Timing	A4	A4	H1		
Days After First/Last Applic.	55 28	55 28	149 122		
Trt-Eval Interval	55 DA-A	55 DA-A			
Plant-Eval Interval	55 DP-1	55 DP-1	149 DP-1		
Days After Emergence	47 DE-1	47 DE-1	141 DE-1		
ARM Action Codes	P	P			
Number of Decimals	0	0	1		
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	13	14	15
11 ACURON	2 qt/a	A	100 a	100 a	42.3 a
HALEX GT	3.6 pt/a	C			
AATREX	0.5 qt/a	C			
DIFLEXX	8 fl oz/a	C			
ACTIVATOR 90 NIS	0.25 % v/v	C			
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				Trial Y
Trial ID: 19S-TPAC-CORN-03		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: A. Kurtz - Bayer				
Pest Type	W Weed	W Weed		
Pest Code	AMBTR	SETFA		
Pest Scientific Name	Ambrosia trifida	Setaria faberi		
Pest Name	Giant ragweed	Giant foxtail		
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Rating Date	Jul-15-2019	Jul-15-2019	Oct-17-2019	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	YIELD	
Rating Unit	%	%	lb/plot	
Sample Size			1 PLOT	
Number of Subsamples	1	1	1	
Assessed By	M. ZIMMER	M. ZIMMER	J. HAARMANN	
Data Entry Date	Jun-10-2019	Jun-10-2019	Oct-22-2019	
Rating Timing	A4	A4	H1	
Days After First/Last Applic.	55 28	55 28	149 122	
Trt-Eval Interval	55 DA-A	55 DA-A		
Plant-Eval Interval	55 DP-1	55 DP-1	149 DP-1	
Days After Emergence	47 DE-1	47 DE-1	141 DE-1	
ARM Action Codes	P	P		
Number of Decimals	0	0	1	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	13	14
12 RESICORE	2.5 qt/a	A	100 a	100 a
AATREX	1 qt/a	A		
DIFLEXX	8 fl oz/a	C		
AATREX	0.5 qt/a	C		
DURANGO DMA	1.5 pt/a	C		
COC	0.5 % v/v	C		
CLASS ACT RIDION	1 % v/v	C		
LSD P=.05			0.6	.
Standard Deviation			0.4	0.0
CV			0.42	0.0
Grand Mean			99.8	100.0
Levene's F			0.00	0.00
Levene's Prob(F)			0.00*	0.00*
Rank X2			.	.
				43.4 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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

Bayer Corn Herbicides Demo				Trial Y
Trial ID: 19S-TPAC-CORN-03		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: A. Kurtz - Bayer				
Pest Type	W Weed	W Weed		
Pest Code	AMBTR	SETFA		
Pest Scientific Name	Ambrosia trifida	Setaria faberi		
Pest Name	Giant ragweed	Giant foxtail		
Crop Type, Code	C ZEAMX	C ZEAMX	C ZEAMX	
BBCH Scale	BCOR	BCOR	BCOR	
Crop Scientific Name	Zea mays	Zea mays	Zea mays	
Crop Name	Corn	Corn	Corn	
Rating Date	Jul-15-2019	Jul-15-2019	Oct-17-2019	
Part Rated	PLOT -	PLOT -	PLOT -	
Rating Type	CONTRO	CONTRO	YIELD	
Rating Unit	%	%	lb/plot	
Sample Size			1 PLOT	
Number of Subsamples	1	1	1	
Assessed By	M. ZIMMER	M. ZIMMER	J. HAARMANN	
Data Entry Date	Jun-10-2019	Jun-10-2019	Oct-22-2019	
Rating Timing	A4	A4	H1	
Days After First/Last Applic.	55 28	55 28	149 122	
Trt-Eval Interval	55 DA-A	55 DA-A		
Plant-Eval Interval	55 DP-1	55 DP-1	149 DP-1	
Days After Emergence	47 DE-1	47 DE-1	141 DE-1	
ARM Action Codes	P	P		
Number of Decimals	0	0	1	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code		
			13	14
				15
P(Rank X2)				
Skewness	-2.9475*	.		-0.2674
Kurtosis	7.0044*	.		0.4309
Replicate F	1.379	0.000		5.967
Replicate Prob(F)	0.2681	1.0000		0.0026
Treatment F	4.862	0.000		2.073
Treatment Prob(F)	0.0004	1.0000		0.0601

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.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

Bayer Corn Herbicides Demo			Trial Y
Trial ID: 19S-TPAC-CORN-03	Location: TPAC		
Protocol ID: 19S-TPAC-CORN-03	Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1	Study Director: Dustin Johnson & Marcelo Zimmer		
	Sponsor Contact: A. Kurtz - Bayer		

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	Oct-17-2019	Oct-17-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	MOICON	YIELD	
Rating Unit	%	BU	
Sample Size		1 A	
Number of Subsamples	1	1	
Assessed By	J.HAARMANN	J.HAARMANN	
Data Entry Date	Oct-22-2019	Oct-22-2019	
Rating Timing	H1	H1	
Days After First/Last Applic.	149 122	149 122	
Trt-Eval Interval			
Plant-Eval Interval	149 DP-1	149 DP-1	
Days After Emergence	141 DE-1	141 DE-1	
ARM Action Codes		TY1	
Number of Decimals	1	1	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
1 UNTREATED CHECK			16 17
2 CORVUS	4.5 oz/a A		18.7 73.8
AATREX	1 qt/a A		18.5 a 264.7 a
HARNESS MAX	55 fl oz/a C		
AATREX	0.5 qt/a C		
DIFLEXX	8 fl oz/a C		
ROUNDUP POWERMAX	32 fl oz/a C		
COC	0.5 % v/v C		
CLASS ACT RIDION	1 % v/v 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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.



# Purdue Weed Science

Bayer Corn Herbicides Demo				Trial Y	
Trial ID: 19S-TPAC-CORN-03		Location: TPAC			
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson			
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer			
		Sponsor Contact: A. Kurtz - Bayer			
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	Oct-17-2019	Oct-17-2019			
Part Rated	PLOT -	PLOT -			
Rating Type	MOICON	YIELD			
Rating Unit	%	BU			
Sample Size		1 A			
Number of Subsamples	1	1			
Assessed By	J.HAARMANN	J.HAARMANN			
Data Entry Date	Oct-22-2019	Oct-22-2019			
Rating Timing	H1	H1			
Days After First/Last Applic.	149 122	149 122			
Trt-Eval Interval					
Plant-Eval Interval	149 DP-1	149 DP-1			
Days After Emergence	141 DE-1	141 DE-1			
ARM Action Codes		TY1			
Number of Decimals	1	1			
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	16	17	
3 BALANCE FLEXX	5 fl oz/a	A	18.1 a	267.0 a	
HARNESS XTRA 5.6L	1.5 qt/a	A			
CAPRENO	3 fl oz/a	C			
AATREX	1 qt/a	C			
DIFLEXX	8 fl oz/a	C			
ROUNDUP POWERMAX	32 fl oz/a	C			
COC	0.5 % v/v	C			
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				Trial Y
Trial ID: 19S-TPAC-CORN-03		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer		
				Sponsor Contact: A. Kurtz - Bayer
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	Oct-17-2019	Oct-17-2019		
Part Rated	PLOT -	PLOT -		
Rating Type	MOICON	YIELD		
Rating Unit	%	BU		
Sample Size		1 A		
Number of Subsamples	1	1		
Assessed By	J.HAARMANN	J.HAARMANN		
Data Entry Date	Oct-22-2019	Oct-22-2019		
Rating Timing	H1	H1		
Days After First/Last Applic.	149 122	149 122		
Trt-Eval Interval				
Plant-Eval Interval	149 DP-1	149 DP-1		
Days After Emergence	141 DE-1	141 DE-1		
ARM Action Codes		TY1		
Number of Decimals	1	1		
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	16	17
4 CORVUS	4.5 fl oz/a	A	18.4 a	284.1 a
HARNESS XTRA 5.6L	1.5 qt/a	A		
LAUDIS	3 fl oz/a	C		
AATREX	1 qt/a	C		
DIFLEXX	8 fl oz/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
MSO	0.5 % v/v	C		
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				Trial Y
Trial ID: 19S-TPAC-CORN-03		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer		
				Sponsor Contact: A. Kurtz - Bayer
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	Oct-17-2019	Oct-17-2019		
Part Rated	PLOT -	PLOT -		
Rating Type	MOICON	YIELD		
Rating Unit	%	BU		
Sample Size		1 A		
Number of Subsamples	1	1		
Assessed By	J.HAARMANN	J.HAARMANN		
Data Entry Date	Oct-22-2019	Oct-22-2019		
Rating Timing	H1	H1		
Days After First/Last Applic.	149 122	149 122		
Trt-Eval Interval				
Plant-Eval Interval	149 DP-1	149 DP-1		
Days After Emergence	141 DE-1	141 DE-1		
ARM Action Codes		TY1		
Number of Decimals	1	1		
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	16	17
5 BALANCE FLEXX	5 fl oz/a	A	18.3 a	255.9 a
HARNESS XTRA 5.6L	1.5 qt/a	A		
DIFLEXX DUO	32 fl oz/a	C		
AATREX	1 qt/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
COC	0.5 % v/v	C		
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				Trial Y
Trial ID: 19S-TPAC-CORN-03		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer		
				Sponsor Contact: A. Kurtz - Bayer
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	Oct-17-2019	Oct-17-2019		
Part Rated	PLOT -	PLOT -		
Rating Type	MOICON	YIELD		
Rating Unit	%	BU		
Sample Size		1 A		
Number of Subsamples	1	1		
Assessed By	J.HAARMANN	J.HAARMANN		
Data Entry Date	Oct-22-2019	Oct-22-2019		
Rating Timing	H1	H1		
Days After First/Last Applic.	149 122	149 122		
Trt-Eval Interval				
Plant-Eval Interval	149 DP-1	149 DP-1		
Days After Emergence	141 DE-1	141 DE-1		
ARM Action Codes		TY1		
Number of Decimals	1	1		
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	16	17
6 BALANCE FLEXX	5 fl oz/a	A	18.3 a	262.8 a
AATREX	1 qt/a	A		
LAUDIS	3 fl oz/a	C		
DEGREE EXTRA	2 qt/a	C		
DIFLEXX	8 fl oz/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
MSO	0.5 % v/v	C		
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				
Trial ID: 19S-TPAC-CORN-03		Location: TPAC		Trial Y
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: A. Kurtz - Bayer				
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	Oct-17-2019	Oct-17-2019		
Part Rated	PLOT -	PLOT -		
Rating Type	MOICON	YIELD		
Rating Unit	%	BU		
Sample Size		1 A		
Number of Subsamples	1	1		
Assessed By	J.HAARMANN	J.HAARMANN		
Data Entry Date	Oct-22-2019	Oct-22-2019		
Rating Timing	H1	H1		
Days After First/Last Applic.	149 122	149 122		
Trt-Eval Interval				
Plant-Eval Interval	149 DP-1	149 DP-1		
Days After Emergence	141 DE-1	141 DE-1		
ARM Action Codes		TY1		
Number of Decimals	1	1		
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	16	17
7 BALANCE FLEXX	5 fl oz/a	A	18.7 a	248.2 a
DEGREE EXTRA	2 qt/a	A		
LAUDIS	3 fl oz/a	C		
AATREX	1 qt/a	C		
DIFLEXX	8 fl oz/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
MSO	0.5 % v/v	C		
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

<b>Bayer Corn Herbicides Demo</b>				Trial Y
Trial ID: 19S-TPAC-CORN-03		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: A. Kurtz - Bayer				
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	Oct-17-2019	Oct-17-2019		
Part Rated	PLOT -	PLOT -		
Rating Type	MOICON	YIELD		
Rating Unit	%	BU		
Sample Size		1 A		
Number of Subsamples	1	1		
Assessed By	J.HAARMANN	J.HAARMANN		
Data Entry Date	Oct-22-2019	Oct-22-2019		
Rating Timing	H1	H1		
Days After First/Last Applic.	149 122	149 122		
Trt-Eval Interval				
Plant-Eval Interval	149 DP-1	149 DP-1		
Days After Emergence	141 DE-1	141 DE-1		
ARM Action Codes		TY1		
Number of Decimals	1	1		
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	16	17
8 BALANCE FLEXX	5 fl oz/a	A	18.4 a	251.9 a
AATREX	1 qt/a	A		
LAUDIS	3 fl oz/a	C		
WARRANT	1.5 qt/a	C		
AATREX	0.5 qt/a	C		
DIFLEXX	8 fl oz/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
MSO	0.5 % v/v	C		
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

Bayer Corn Herbicides Demo			Trial Y
Trial ID: 19S-TPAC-CORN-03	Location: TPAC		
Protocol ID: 19S-TPAC-CORN-03	Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1	Study Director: Dustin Johnson & Marcelo Zimmer		
	Sponsor Contact: A. Kurtz - Bayer		

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	Oct-17-2019	Oct-17-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	MOICON	YIELD	
Rating Unit	%	BU	
Sample Size		1 A	
Number of Subsamples	1	1	
Assessed By	J.HAARMANN	J.HAARMANN	
Data Entry Date	Oct-22-2019	Oct-22-2019	
Rating Timing	H1	H1	
Days After First/Last Applic.	149 122	149 122	
Trt-Eval Interval			
Plant-Eval Interval	149 DP-1	149 DP-1	
Days After Emergence	141 DE-1	141 DE-1	
ARM Action Codes		TY1	
Number of Decimals	1	1	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			16
9 DEGREE EXTRA	3.5 qt/a	A	18.6 a
CAPRENO	3 fl oz/a	C	248.0 a
AATREX	0.5 qt/a	C	
DIFLEXX	8 fl oz/a	C	
ROUNDUP POWERMAX	32 fl oz/a	C	
COC	0.5 % v/v	C	
CLASS ACT RIDION	1 % v/v	C	
10 CAPRENO	3 fl oz/a	B	18.7 a
DEGREE EXTRA	3 qt/a	B	242.5 a
DIFLEXX	8 fl oz/a	B	
ROUNDUP POWERMAX	32 fl oz/a	B	
COC	0.5 % v/v	B	
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

Bayer Corn Herbicides Demo			Trial Y
Trial ID: 19S-TPAC-CORN-03	Location: TPAC		
Protocol ID: 19S-TPAC-CORN-03	Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1	Study Director: Dustin Johnson & Marcelo Zimmer		
	Sponsor Contact: A. Kurtz - Bayer		

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	Oct-17-2019	Oct-17-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	MOICON	YIELD	
Rating Unit	%	BU	
Sample Size		1 A	
Number of Subsamples	1	1	
Assessed By	J.HAARMANN	J.HAARMANN	
Data Entry Date	Oct-22-2019	Oct-22-2019	
Rating Timing	H1	H1	
Days After First/Last Applic.	149 122	149 122	
Trt-Eval Interval			
Plant-Eval Interval	149 DP-1	149 DP-1	
Days After Emergence	141 DE-1	141 DE-1	
ARM Action Codes		TY1	
Number of Decimals	1	1	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			16
			17
11 ACURON	2 qt/a	A	18.6 a
HALEX GT	3.6 pt/a	C	253.7 a
AATREX	0.5 qt/a	C	
DIFLEXX	8 fl oz/a	C	
ACTIVATOR 90 NIS	0.25 % v/v	C	
CLASS ACT RIDION	1 % v/v	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.

Untreated treatment(s) 1 excluded from analysis.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.



# Purdue Weed Science

Bayer Corn Herbicides Demo			Trial Y
Trial ID: 19S-TPAC-CORN-03	Location: TPAC		
Protocol ID: 19S-TPAC-CORN-03	Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1	Study Director: Dustin Johnson & Marcelo Zimmer		
	Sponsor Contact: A. Kurtz - Bayer		

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	Oct-17-2019	Oct-17-2019	
Part Rated	PLOT -	PLOT -	
Rating Type	MOICON	YIELD	
Rating Unit	%	BU	
Sample Size		1 A	
Number of Subsamples	1	1	
Assessed By	J.HAARMANN	J.HAARMANN	
Data Entry Date	Oct-22-2019	Oct-22-2019	
Rating Timing	H1	H1	
Days After First/Last Applic.	149 122	149 122	
Trt-Eval Interval			
Plant-Eval Interval	149 DP-1	149 DP-1	
Days After Emergence	141 DE-1	141 DE-1	
ARM Action Codes		TY1	
Number of Decimals	1	1	
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			16
			17
12 RESICORE	2.5 qt/a	A	18.6 a
AATREX	1 qt/a	A	260.3 a
DIFLEXX	8 fl oz/a	C	
AATREX	0.5 qt/a	C	
DURANGO DMA	1.5 pt/a	C	
COC	0.5 % v/v	C	
CLASS ACT RIDION	1 % v/v	C	
LSD P=.05			0.63
Standard Deviation			0.43
CV			2.35
Grand Mean			18.47
Levene's F			2.091
Levene's Prob(F)			0.055
Rank X2			.

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.

Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

Bayer Corn Herbicides Demo				Trial Y
Trial ID: 19S-TPAC-CORN-03		Location: TPAC		
Protocol ID: 19S-TPAC-CORN-03		Investigator (Creator): Dr. Bill Johnson		
Project ID: H19USAWMUUEF1		Study Director: Dustin Johnson & Marcelo Zimmer		
Sponsor Contact: A. Kurtz - Bayer				
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	Oct-17-2019	Oct-17-2019		
Part Rated	PLOT -	PLOT -		
Rating Type	MOICON	YIELD		
Rating Unit	%	BU		
Sample Size		1 A		
Number of Subsamples	1	1		
Assessed By	J.HAARMANN	J.HAARMANN		
Data Entry Date	Oct-22-2019	Oct-22-2019		
Rating Timing	H1	H1		
Days After First/Last Applic.	149 122	149 122		
Trt-Eval Interval				
Plant-Eval Interval	149 DP-1	149 DP-1		
Days After Emergence	141 DE-1	141 DE-1		
ARM Action Codes		TY1		
Number of Decimals	1	1		
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	16	17
P(Rank X2)			.	.
Skewness			0.0866	-0.3219
Kurtosis			0.1508	0.3923
Replicate F			3.337	6.377
Replicate Prob(F)			0.0324	0.0018
Treatment F			0.627	2.123
Treatment Prob(F)			0.7787	0.0543

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Missing data estimates are included in columns: Yates=2,5

Could not calculate LSD (% mean diff) for columns 7,11,12,14 because error mean square = 0.

# Purdue Weed Science

## Bayer Corn Herbicides Demo

Trial ID: 19S-TPAC-CORN-03	Location: TPAC	Trial Y
Protocol ID: 19S-TPAC-CORN-03	Investigator (Creator): Dr. Bill Johnson	
Project ID: H19USAWMUUEF1	Study Director: Dustin Johnson & Marcelo Zimmer	
	Sponsor Contact: A. Kurtz - Bayer	

### Pest Type

W, Weed = Weed or volunteer crop

### Pest Code

AMBTR, Ambrosia trifida, Giant ragweed = US

SETFA, Setaria faberi, Giant foxtail = US

SETPU, Setaria helvola, yellow foxtail = US

### Crop Type, Code

C = EPPO species (Bayer) codes

ZEAMX, BCOR, Zea mays, Corn = US

### Part Rated

PLOT = plot

### Rating Type

PHYGEN = phytotoxicity - general / injury

CONTRO = control / burndown or knockdown

YIELD = yield

MOICON = moisture content

### Rating Unit

% = percent

lb/plot = pounds per plot

BU = bushel

PLOT = total plot

A = acre

### Rating Timing

A1 = 1st Assessment According to Trial Schedule

A2 = 2nd Assessment According to trial Schedule

A3 = 3rd Assessment According to Trial Schedule

A4 = 4th Assessment According to Trial Schedule

H1 = 1st Harvest

### Plant-Eval Interval

27 DP-1 = 1 ZEAMX May-21-2019

34 DP-1 = 1 ZEAMX May-21-2019

64 DP-1 = 1 ZEAMX May-21-2019

41 DP-1 = 1 ZEAMX May-21-2019

55 DP-1 = 1 ZEAMX May-21-2019

149 DP-1 = 1 ZEAMX May-21-2019

### ARM Action Codes

P = Rating scale of 0 to 100 (e.g. % control or injury)

TY1 =  $6.222857 * [15] * (100 - [16]) / 84.5$