Purdue Weed Science

BCS-720 / Corn / Two-pass system / Grass & Broadleaf / Phyto & Efficacy

Trial ID: 20S-TPAC-CORN-05

Protocol Developer: Riley, Eric
License User: Childs, Dan

General Trial Information

Trial Initiation Date: 5/7/2020 **Protocol Edition No.:** 1.04
Trial Status: A **Trial Status Date:** 9/4/2020
Last change done by: Dr. Bill Johnson **Date of last export:** 9/4/2020 6:45 AM
Trial Objectives fulfilled: FULLY
GEP level: Conducted under GEP
External Trial: X

Interim Data Due: 11/1/2020

	1
TD Number(s):	LOCALCREATED

	1	2
Objectives:	PHYTOTOX	EFFICACY

License User: Childs, Dan
Department: Bayer CropScience LP

Protocol Developer: Riley, Eric

Trial Officer: Childs, Dan

Cooperator (Outside service): Cooperator
Affiliation: Affilation
Street: Street
City: City
Postal Code: PostalCode
Telephone: Telephon
Fax: Fax
Mobile Tel.: Mobile Telephone
E-Mail: E-Mail

Site and Design

Field Name: TPAC - Throckmorton Purdue Agricultural Center
City: Lafayette
Postal Code: 47909
County: Tippecanoe
State/Province: IN
Country: USA

Latitude, Longitude of Trial Corners

Lower Left
Latitude: 40.291774
Longitude: -86.9073171

No. of Replicates: 4 **No. of Treatments:** 13 **No. of Plots:** 52
Plot Width: 3.048 m **Plot Length:** 9.14 m
Plot Area: 27.87 m2
Site Type: FIELD **Test Type:** EXTER
Tillage Type: CONTIL **Trial Design:** RACOBL
Most relevant weather station: Throckmorton Purdue Agricultural Center
Distance: 0.75 KM
Location of Control: INCLUDED

Previous Crops and Agricultural Chemicals

Previous Crops			Year
GLXMA	C	BSOY	2019

Soil Description

Soil Name: Toronto-Millbrook complex
Texture: SIL **% Sand:** 17 **% Silt:** 56
% Clay: 27
% Organic Matter: 3.1
pH: 6.2 **Cation Exchange Capacity:** 11.5

Irrigation/Rainfall

Date	Amount	Unit	Type and Equipment
5/2/2020	0.025	CM	RAIN
5/3/2020	0.585	CM	RAIN
5/5/2020	0.481	CM	RAIN
5/6/2020	0.025	CM	RAIN
5/10/2020	0.101	CM	RAIN
5/14/2020	0.405	CM	RAIN
5/15/2020	0.279	CM	RAIN
5/17/2020	1.497	CM	RAIN
5/18/2020	0.914	CM	RAIN
5/19/2020	0.684	CM	RAIN
5/23/2020	0.178	CM	RAIN
5/27/2020	0.025	CM	RAIN
5/28/2020	0.331	CM	RAIN
6/4/2020	0.33	CM	RAIN
6/9/2020	0.787	CM	RAIN
6/20/2020	0.025	CM	RAIN
6/21/2020	0.075	CM	RAIN
6/22/2020	0.711	CM	RAIN
6/23/2020	0.203	CM	RAIN
6/27/2020	2.769	CM	RAIN
6/28/2020	0.229	CM	RAIN
6/29/2020	0.076	CM	RAIN
6/30/2020	1.829	CM	RAIN
7/10/2020	0.05	CM	RAIN
7/11/2020	0.914	CM	RAIN
7/12/2020	0.66	CM	RAIN
7/15/2020	0.127	CM	RAIN
7/16/2020	0.456	CM	RAIN
7/19/2020	0.051	CM	RAIN
7/21/2020	1.423	CM	RAIN
7/22/2020	0.329	CM	RAIN
7/23/2020	0.178	CM	RAIN
7/27/2020	1.295	CM	RAIN
7/30/2020	1.599	CM	RAIN

Plant Development at Appl. and/or Ass.

Date From	To	Crop			BBCH From	To	Plant Development	Soil Humidity	Cloud Cover	Temperature
5/7/2020	5/7/2020	A2	C	BCOR	00	00	NORMAL	DRY	SLIGHT	MEDIUM
6/12/2020	6/12/2020	A2	C	BCOR	15	16	NORMAL	SLIWET	NONE	HOT

Crop Description

Crop 1: ZEAMD **Discipline:** C **Crop Scale:** BCOR **Use Group:** A2
Zea mays L. ssp. indentata STU
Corn, dent
Variety: DKC62-52RIB
Variety Characteristic: RR2+LL+BT
Seed/Planting Date: 5/7/2020
Depth: 4.5 CM **Seed/Plant Count:** 84565 P/HA
Row Spacing: 76 CM
Planting Method: PLANTD
Planting Implement: PP
Soil Temperature: 15.5 C
Emergence Crop Date: 5/18/2020 **Soil Moisture (at Planting):** DRY
Planting Crop Stage: 00

Target Description

Target 1: AMBTR **Discipline:** W **Target Scale:** BDIC
Ambrosia trifida L.
Ragweed, giant
Target Characteristics: SOILBORN
Target 2: ECHCG **Discipline:** W **Target Scale:** BGRM
Echinochloa crus-galli (L.) P.
Barnyardgrass, common
Target Characteristics: SOILBORN

Application Description

	A	B
Application Date	5/7/2020	6/12/2020
Interval to prev. Appl.		36 DAY
Application Timing	PREPRE	MIPOCR
Appl.Start - Time of Day	5:25 PM	8:45 AM
Appl. Stop	5:55 PM	9:22 AM
Appl. Rain 0-6H	0 CM	0 CM
Time b. Appl./first Rain	3 DAY	8 DAY
% Relative Humidity	36	62
Air Temperature	20 C	22 C
% Cloud Cover	10	0
Appl. Wind Strength	MOD	CLM
Wind Velocity	20.9 KPH	4.51 KPH
Wind Direction/Degrees	W	N
Plant Condition	NORMAL	NORMAL
Soil Temperature	15.56 C	21.1 C
Soil Moisture	DRY	SLIWET
Problems with Application?	No	No

Crop Stage at Application

	A	B
Crop 1/Disc./Scale	ZEAMD, C, BCOR	ZEAMD, C, BCOR
Days after Emergence	-11	25
Stage Majority/Percent	00, 100	15, 90
Stage Minimum/Percent	00, -	15, -
Stage Maximum/Percent	00, -	16, -
Majority Height/Unit	0 CM	35.56 CM
Min/Max (Unit=Height Unit)	0, 0	25.4, 40.64

Target Stage at Application

	A	B
Target 1/Disc./Scale	AMBTR, W, BDIC	AMBTR, W, BDIC
Target Characteristics	SOILBORN	SOILBORN
Stage Majority/Percent	00, -	14, -
Stage Minimum/Percent	00, -	12, -
Stage Maximum/Percent	00, -	14, -
Majority Height/Unit	0 CM	5.08 CM
Min/Max (Unit=Height Unit)	0, 0	1.27, 7.62
Target 2/Disc./Scale	ECHCG, W, BGRM	ECHCG, W, BGRM
Target Characteristics	SOILBORN	SOILBORN
Stage Majority/Percent	00, -	12, -
Stage Minimum/Percent	00, -	11, -
Stage Maximum/Percent	00, -	12, -
Majority Height/Unit	0 CM	5.08 CM
Min/Max (Unit=Height Unit)	0, 0	1.27, 5.08

Application Equipment

	A	B
Application Method	SPRAY	SPRAY
Application Placement	BROADC	BROADC
Application Equipment	BACSPR	BACSPR
Ground Speed	4.8 KPH	4.8 KPH
Propellant Type	COMCO2	COMCO2
Carrier	WATER	WATER
Appl./Slurry Volume	140.3	140.3
Appl./Slurry Volume Unit	L/HA	L/HA
Minimum Mix/Treatment	1.564 L	1.564 L
Mix Overage	0 ML	0 ML
Mix Size	1.8 L	1.8 L
Operating Pressure	172.4 KPA	151.7 KPA
Spray Swath Width	3.0480001 M	3.0480001 M
Nozzle Type	TEEJAI	TJAIXR
Nozzle Size	110015	110015
Nozzle Spacing	38.1 CM	38.1 CM
Nozzles/Row	8	8
Boom Height	43.2 CM	43.2 CM

Maintenance

Date	Crop			Dosage	Dosage Unit	Maintenance Product Name
4/7/2020	A2	C	BCOR	202	KG N/HA	UAN

Purdue Weed Science

BCS-720 / Corn / Two-pass system / Grass & Broadleaf / Phyto & Efficacy

Trial ID: 20S-TPAC-CORN-05

Protocol Developer: Riley, Eric
License User: Childs, Dan

Entry No.	Entry/Trt. Description	Dose	Dose Unit	Appl. Code	1	2	3	4	5	6
	Unique Col. ID				2	3	4	5	6	7
	Orig./Calc. Flag				O	O	O	O	O	O
	SE Group				1	1	1	1	1	1
	SE ID				EE22AD3	EE22AD3	PE12AD1	PE12AD1	EE22AD3	EE22AD3
	SE Label				1 weed,	1 weed,	Estimat	Estimat	1 weed,	1 weed,
	Target				1, AMBTR	2, ECHCG			1, AMBTR	2, ECHCG
	-Disc./Scale				W, BDIC	W, BGRM			W, BDIC	W, BGRM
	-Characteristic				SOILBORN	SOILBORN			SOILBORN	SOILBORN
	Crop				1, ZEAMD	1, ZEAMD	1, ZEAMD	1, ZEAMD	1, ZEAMD	1, ZEAMD
	-Disc./Scale				C, BCOR	C, BCOR	C, BCOR	C, BCOR	C, BCOR	C, BCOR
	Variety				DKC62-52RIB	DKC62-52RIB	DKC62-52RIB	DKC62-52RIB	DKC62-52RIB	DKC62-52RIB
	-Characteristic				RR2+LL+BT	RR2+LL+BT	RR2+LL+BT	RR2+LL+BT	RR2+LL+BT	RR2+LL+BT
	Assessment Type				CONTRO	CONTRO	PHYGEN	PHYGEN	CONTRO	CONTRO
	Assessment Unit				%	%	%	%	%	%
	Sample Size				1	1	1	1	1	1
	Sample Size Unit				PLOT	PLOT	PLOT	PLOT	PLOT	PLOT
	Sample Size (total)				1	1	1	1	1	1
	Assessment Date				6/11/2020	6/11/2020	6/19/2020	6/28/2020	6/28/2020	6/28/2020
	Assessment Code				B0	B0	B2	B3	B3	B3
	Days after first Appl.				35 DAA	35 DAA	43 DAA	52 DAA	52 DAA	52 DAA
	Days after last Appl.				35 DAA	35 DAA	7 DAB	16 DAB	16 DAB	16 DAB
	Plant.-Ass.Interval				35 DP1	35 DP1	43 DP1	52 DP1	52 DP1	52 DP1
	Days after Emergence				24 DE1	24 DE1	32 DE1	41 DE1	41 DE1	41 DE1
1	UNTREATED				0.0	0.0	0.0	0.0	0.0	0.0
2	ACURON FLEXI	1827	G AI/HA	A	94.3 -	94.3 abc	0.0 -	0.0 -	100.0 -	99.3 ab
	DIFLEXX DUO	340.2	G AI/HA	B						
	ATRAZINE	560	G AI/HA	B						
	ROUNDUP POWER MAX	1263	G AI/HA	B						
	N-PAK AMS LIQUID	2.5	% V/V	B						
3	FFA+IFT+TCM+CSA	429.5	G AI/HA	A	95.3 -	85.0 de	0.0 -	0.0 -	100.0 -	96.0 c
	ATRAZINE	560	G AI/HA	A						
	DIFLEXX DUO	340.2	G AI/HA	B						
	ATRAZINE	560	G AI/HA	B						
	ROUNDUP POWER MAX	1263	G AI/HA	B						
	N-PAK AMS LIQUID	2.5	% V/V	B						
4	FFA+IFT+TCM+CSA	537	G AI/HA	A	94.0 -	88.8 cde	0.0 -	0.0 -	100.0 -	96.8 bc
	ATRAZINE	560	G AI/HA	A						
	DIFLEXX DUO	340.2	G AI/HA	B						
	ATRAZINE	560	G AI/HA	B						
	ROUNDUP POWER MAX	1263	G AI/HA	B						
	N-PAK AMS LIQUID	2.5	% V/V	B						
5	LEXAR EZ	3116	G AI/HA	A	93.5 -	97.5 a	0.0 -	0.0 -	100.0 -	100.0 a
	HARNESS MAX	1350	G AI/HA	B						
	ATRAZINE	560	G AI/HA	B						
	ROUNDUP POWER MAX	1263	G AI/HA	B						
	N-PAK AMS LIQUID	2.5	% V/V	B						
6	FFA+IFT+TCM+CSA	429.5	G AI/HA	A	91.3 -	86.8 de	0.0 -	0.0 -	100.0 -	100.0 a
	ATRAZINE	560	G AI/HA	A						
	HARNESS MAX	1350	G AI/HA	B						
	ATRAZINE	560	G AI/HA	B						
	ROUNDUP POWER MAX	1263	G AI/HA	B						
	N-PAK AMS LIQUID	2.5	% V/V	B						
7	FFA+IFT+TCM+CSA	537	G AI/HA	A	91.3 -	84.3 e	0.0 -	0.0 -	100.0 -	100.0 a
	ATRAZINE	560	G AI/HA	A						
	HARNESS MAX	1350	G AI/HA	B						
	ATRAZINE	560	G AI/HA	B						
	ROUNDUP POWER MAX	1263	G AI/HA	B						
	N-PAK AMS LIQUID	2.5	% 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.
Could not calculate LSD (% mean diff) for columns 3,4,5,7,8 because error mean square = 0.
^Calculated from residual.

Unique Col. ID					2	3	4	5	6	7
Orig./Calc. Flag					O	O	O	O	O	O
SE Group					1	1	1	1	1	1
SE ID					EE22AD3	EE22AD3	PE12AD1	PE12AD1	EE22AD3	EE22AD3
SE Label					1 weed,	1 weed,	Estimat	Estimat	1 weed,	1 weed,
Target					1, AMBTR	2, ECHCG			1, AMBTR	2, ECHCG
-Disc./Scale					W, BDIC	W, BGRM			W, BDIC	W, BGRM
-Characteristic					SOILBORN	SOILBORN			SOILBORN	SOILBORN
Crop					1, ZEAMD	1, ZEAMD	1, ZEAMD	1, ZEAMD	1, ZEAMD	1, ZEAMD
-Disc./Scale					C, BCOR	C, BCOR	C, BCOR	C, BCOR	C, BCOR	C, BCOR
Variety					DKC62-52RIB	DKC62-52RIB	DKC62-52RIB	DKC62-52RIB	DKC62-52RIB	DKC62-52RIB
-Characteristic					RR2+LL+BT	RR2+LL+BT	RR2+LL+BT	RR2+LL+BT	RR2+LL+BT	RR2+LL+BT
Assessment Type					CONTRO	CONTRO	PHYGEN	PHYGEN	CONTRO	CONTRO
Assessment Unit					%	%	%	%	%	%
Sample Size					1	1	1	1	1	1
Sample Size Unit					PLOT	PLOT	PLOT	PLOT	PLOT	PLOT
Sample Size (total)					1	1	1	1	1	1
Assessment Date					6/11/2020	6/11/2020	6/19/2020	6/28/2020	6/28/2020	6/28/2020
Assessment Code					B0	B0	B2	B3	B3	B3
Days after first Appl.					35 DAA	35 DAA	43 DAA	52 DAA	52 DAA	52 DAA
Days after last Appl.					35 DAA	35 DAA	7 DAB	16 DAB	16 DAB	16 DAB
Plant.-Ass.Interval					35 DP1	35 DP1	43 DP1	52 DP1	52 DP1	52 DP1
Days after Emergence					24 DE1	24 DE1	32 DE1	41 DE1	41 DE1	41 DE1
Entry No.	Entry/Trt. Description	Dose	Dose Unit	Appl. Code	1	2	3	4	5	6
8	RESICORE	2533	G AI/HA	A	97.5 -	95.5 ab	0.0 -	0.0 -	100.0 -	96.8 bc
	LAUDIS	138.1	G AI/HA	B						
	ATRAZINE	560	G AI/HA	B						
	ROUNDUP POWER MAX	1263	G AI/HA	B						
	N-PAK AMS LIQUID	2.5	% V/V	B						
9	FFA+IFT+TCM+CSA	429.5	G AI/HA	A	93.3 -	84.8 de	0.0 -	0.0 -	100.0 -	98.0 abc
	ATRAZINE	560	G AI/HA	A						
	LAUDIS	138.1	G AI/HA	B						
	ATRAZINE	560	G AI/HA	B						
	ROUNDUP POWER MAX	1263	G AI/HA	B						
	N-PAK AMS LIQUID	2.5	% V/V	B						
10	FFA+IFT+TCM+CSA	537	G AI/HA	A	93.5 -	90.0 bcd	0.0 -	0.0 -	100.0 -	97.3 bc
	ATRAZINE	560	G AI/HA	A						
	LAUDIS	138.1	G AI/HA	B						
	ATRAZINE	560	G AI/HA	B						
	ROUNDUP POWER MAX	1263	G AI/HA	B						
	N-PAK AMS LIQUID	2.5	% V/V	B						
11	VERDICT	684	G AI/HA	A	93.0 -	89.8 cde	0.0 -	0.0 -	100.0 -	97.3 bc
	CAPRENO HERBICIDE	119.9	G AI/HA	B						
	ATRAZINE	560	G AI/HA	B						
	ROUNDUP POWER MAX	1263	G AI/HA	B						
	N-PAK AMS LIQUID	2.5	% V/V	B						
12	FFA+IFT+TCM+CSA	429.5	G AI/HA	A	91.8 -	90.0 bcd	0.0 -	0.0 -	100.0 -	98.0 abc
	ATRAZINE	560	G AI/HA	A						
	CAPRENO HERBICIDE	119.9	G AI/HA	B						
	ATRAZINE	560	G AI/HA	B						
	ROUNDUP POWER MAX	1263	G AI/HA	B						
	N-PAK AMS LIQUID	2.5	% 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.
Could not calculate LSD (% mean diff) for columns 3,4,5,7,8 because error mean square = 0.
^Calculated from residual.

Unique Col. ID					2	3	4	5	6	7		
Orig./Calc. Flag					O	O	O	O	O	O		
SE Group					1	1	1	1	1	1		
SE ID					EE22AD3	EE22AD3	PE12AD1	PE12AD1	EE22AD3	EE22AD3		
SE Label					1 weed,	1 weed,	Estimat	Estimat	1 weed,	1 weed,		
Target					1, AMBTR	2, ECHCG			1, AMBTR	2, ECHCG		
-Disc./Scale					W, BDIC	W, BGRM			W, BDIC	W, BGRM		
-Characteristic					SOILBORN	SOILBORN			SOILBORN	SOILBORN		
Crop					1, ZEAMD	1, ZEAMD	1, ZEAMD	1, ZEAMD	1, ZEAMD	1, ZEAMD		
-Disc./Scale					C, BCOR	C, BCOR	C, BCOR	C, BCOR	C, BCOR	C, BCOR		
Variety					DKC62-52RIB	DKC62-52RIB	DKC62-52RIB	DKC62-52RIB	DKC62-52RIB	DKC62-52RIB		
-Characteristic					RR2+LL+BT	RR2+LL+BT	RR2+LL+BT	RR2+LL+BT	RR2+LL+BT	RR2+LL+BT		
Assessment Type					CONTRO	CONTRO	PHYGEN	PHYGEN	CONTRO	CONTRO		
Assessment Unit					%	%	%	%	%	%		
Sample Size					1	1	1	1	1	1		
Sample Size Unit					PLOT	PLOT	PLOT	PLOT	PLOT	PLOT		
Sample Size (total)					1	1	1	1	1	1		
Assessment Date					6/11/2020	6/11/2020	6/19/2020	6/28/2020	6/28/2020	6/28/2020		
Assessment Code					B0	B0	B2	B3	B3	B3		
Days after first Appl.					35 DAA	35 DAA	43 DAA	52 DAA	52 DAA	52 DAA		
Days after last Appl.					35 DAA	35 DAA	7 DAB	16 DAB	16 DAB	16 DAB		
Plant.-Ass.Interval					35 DP1	35 DP1	43 DP1	52 DP1	52 DP1	52 DP1		
Days after Emergence					24 DE1	24 DE1	32 DE1	41 DE1	41 DE1	41 DE1		
Entry No.	Entry/Trt. Description	Dose	Dose Unit	Appl. Code	1	2	3	4	5	6		
13	FFA+IFT+TCM+CSA	537	G AI/HA	A	94.3 -	88.8 cde	0.0 -	0.0 -	100.0 -	97.3 bc		
	ATRAZINE	560	G AI/HA	A								
	CAPRENO HERBICIDE	119.9	G AI/HA	B								
	ATRAZINE	560	G AI/HA	B								
	ROUNDUP POWER MAX	1263	G AI/HA	B								
	N-PAK AMS LIQUID	2.5	% V/V	B								
LSD P=.05					3.97	5.61	.	.	.	2.62		
Standard Deviation					2.76	3.90	0.00	0.00	0.00	1.82		
CV					2.95	4.35	0.0	0.0	0.0	1.85		
Grand Mean					93.56	89.60	0.00	0.00	100.00	98.04		
Levene's F^					0.294	0.787	.	.	.	1.412		
Levene's Prob(F)					0.983	0.651	.	.	.	0.21		
Rank X2					.	.	.	.	.	.		
P(Rank X2)					.	.	.	.	.	.		
Skewness^					0.1054	-0.2566	.	.	.	-0.0416		
Kurtosis^					-0.0631	-0.5575	.	.	.	-0.3812		
Replicate F					15.075	1.342	0.000	0.000	0.000	0.950		
Replicate Prob(F)					0.0001	0.2777	1.0000	1.0000	1.0000	0.4280		
Treatment F					1.622	4.830	0.000	0.000	0.000	2.459		
Treatment Prob(F)					0.1380	0.0002	1.0000	1.0000	1.0000	0.0226		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Could not calculate LSD (% mean diff) for columns 3,4,5,7,8 because error mean square = 0.
^Calculated from residual.

Unique Col. ID								8	9
Orig./Calc. Flag								O	O
SE Group								1	1
SE ID								EE22AD3	EE22AD3
SE Label								1 weed,	1 weed,
Target								1, AMBTR	2, ECHCG
-Disc./Scale								W, BDIC	W, BGRM
-Characteristic								SOILBORN	SOILBORN
Crop								1, ZEAMD	1, ZEAMD
-Disc./Scale								C, BCOR	C, BCOR
Variety								DKC62-52RIB	DKC62-52RIB
-Characteristic								RR2+LL+BT	RR2+LL+BT
Assessment Type								CONTRO	CONTRO
Assessment Unit								%	%
Sample Size								1	1
Sample Size Unit								PLOT	PLOT
Sample Size (total)								1	1
Assessment Date								7/17/2020	7/17/2020
Assessment Code								B5	B5
Days after first Appl.								71 DAA	71 DAA
Days after last Appl.								35 DAB	35 DAB
Plant.-Ass.Interval								71 DP1	71 DP1
Days after Emergence								60 DE1	60 DE1
Entry No.	Entry/Trt. Description	Dose	Dose Unit			Appl. Code		7	8
1	UNTREATED							0.0	0.0
2	ACURON FLEXI	1827	G	AI/HA		A		100.0 -	100.0 -
	DIFLEXX DUO	340.2	G	AI/HA		B			
	ATRAZINE	560	G	AI/HA		B			
	ROUNDUP POWER MAX	1263	G	AI/HA		B			
	N-PAK AMS LIQUID	2.5	%	V/V		B			
3	FFA+IFT+TCM+CSA	429.5	G	AI/HA		A		100.0 -	100.0 -
	ATRAZINE	560	G	AI/HA		A			
	DIFLEXX DUO	340.2	G	AI/HA		B			
	ATRAZINE	560	G	AI/HA		B			
	ROUNDUP POWER MAX	1263	G	AI/HA		B			
	N-PAK AMS LIQUID	2.5	%	V/V		B			
4	FFA+IFT+TCM+CSA	537	G	AI/HA		A		100.0 -	100.0 -
	ATRAZINE	560	G	AI/HA		A			
	DIFLEXX DUO	340.2	G	AI/HA		B			
	ATRAZINE	560	G	AI/HA		B			
	ROUNDUP POWER MAX	1263	G	AI/HA		B			
	N-PAK AMS LIQUID	2.5	%	V/V		B			
5	LEXAR EZ	3116	G	AI/HA		A		100.0 -	100.0 -
	HARNESS MAX	1350	G	AI/HA		B			
	ATRAZINE	560	G	AI/HA		B			
	ROUNDUP POWER MAX	1263	G	AI/HA		B			
	N-PAK AMS LIQUID	2.5	%	V/V		B			
6	FFA+IFT+TCM+CSA	429.5	G	AI/HA		A		100.0 -	100.0 -
	ATRAZINE	560	G	AI/HA		A			
	HARNESS MAX	1350	G	AI/HA		B			
	ATRAZINE	560	G	AI/HA		B			
	ROUNDUP POWER MAX	1263	G	AI/HA		B			
	N-PAK AMS LIQUID	2.5	%	V/V		B			
7	FFA+IFT+TCM+CSA	537	G	AI/HA		A		100.0 -	100.0 -
	ATRAZINE	560	G	AI/HA		A			
	HARNESS MAX	1350	G	AI/HA		B			
	ATRAZINE	560	G	AI/HA		B			
	ROUNDUP POWER MAX	1263	G	AI/HA		B			
	N-PAK AMS LIQUID	2.5	%	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.
Could not calculate LSD (% mean diff) for columns 3,4,5,7,8 because error mean square = 0.
^Calculated from residual.

Unique Col. ID						8	9
Orig./Calc. Flag						O	O
SE Group						1	1
SE ID						EE22AD3	EE22AD3
SE Label						1 weed,	1 weed,
Target						1, AMBTR	2, ECHCG
-Disc./Scale						W, BDIC	W, BGRM
-Characteristic						SOILBORN	SOILBORN
Crop						1, ZEAMD	1, ZEAMD
-Disc./Scale						C, BCOR	C, BCOR
Variety						DKC62-52RIB	DKC62-52RIB
-Characteristic						RR2+LL+BT	RR2+LL+BT
Assessment Type						CONTRO	CONTRO
Assessment Unit						%	%
Sample Size						1	1
Sample Size Unit						PLOT	PLOT
Sample Size (total)						1	1
Assessment Date						7/17/2020	7/17/2020
Assessment Code						B5	B5
Days after first Appl.						71 DAA	71 DAA
Days after last Appl.						35 DAB	35 DAB
Plant.-Ass.Interval						71 DP1	71 DP1
Days after Emergence						60 DE1	60 DE1
Entry No.	Entry/Trt. Description	Dose	Dose Unit	Appl. Code		7	8
8	RESICORE	2533	G AI/HA	A		100.0 -	100.0 -
	LAUDIS	138.1	G AI/HA	B			
	ATRAZINE	560	G AI/HA	B			
	ROUNDUP POWER MAX	1263	G AI/HA	B			
	N-PAK AMS LIQUID	2.5	% V/V	B			
9	FFA+IFT+TCM+CSA	429.5	G AI/HA	A		100.0 -	100.0 -
	ATRAZINE	560	G AI/HA	A			
	LAUDIS	138.1	G AI/HA	B			
	ATRAZINE	560	G AI/HA	B			
	ROUNDUP POWER MAX	1263	G AI/HA	B			
	N-PAK AMS LIQUID	2.5	% V/V	B			
10	FFA+IFT+TCM+CSA	537	G AI/HA	A		100.0 -	100.0 -
	ATRAZINE	560	G AI/HA	A			
	LAUDIS	138.1	G AI/HA	B			
	ATRAZINE	560	G AI/HA	B			
	ROUNDUP POWER MAX	1263	G AI/HA	B			
	N-PAK AMS LIQUID	2.5	% V/V	B			
11	VERDICT	684	G AI/HA	A		100.0 -	100.0 -
	CAPRENO HERBICIDE	119.9	G AI/HA	B			
	ATRAZINE	560	G AI/HA	B			
	ROUNDUP POWER MAX	1263	G AI/HA	B			
	N-PAK AMS LIQUID	2.5	% V/V	B			
12	FFA+IFT+TCM+CSA	429.5	G AI/HA	A		100.0 -	100.0 -
	ATRAZINE	560	G AI/HA	A			
	CAPRENO HERBICIDE	119.9	G AI/HA	B			
	ATRAZINE	560	G AI/HA	B			
	ROUNDUP POWER MAX	1263	G AI/HA	B			
	N-PAK AMS LIQUID	2.5	% 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.
Could not calculate LSD (% mean diff) for columns 3,4,5,7,8 because error mean square = 0.
^Calculated from residual.

Unique Col. ID						8	9
Orig./Calc. Flag						O	O
SE Group						1	1
SE ID						EE22AD3	EE22AD3
SE Label						1 weed,	1 weed,
Target						1, AMBTR	2, ECHCG
-Disc./Scale						W, BDIC	W, BGRM
-Characteristic						SOILBORN	SOILBORN
Crop						1, ZEAMD	1, ZEAMD
-Disc./Scale						C, BCOR	C, BCOR
Variety						DKC62-52RIB	DKC62-52RIB
-Characteristic						RR2+LL+BT	RR2+LL+BT
Assessment Type						CONTRO	CONTRO
Assessment Unit						%	%
Sample Size						1	1
Sample Size Unit						PLOT	PLOT
Sample Size (total)						1	1
Assessment Date						7/17/2020	7/17/2020
Assessment Code						B5	B5
Days after first Appl.						71 DAA	71 DAA
Days after last Appl.						35 DAB	35 DAB
Plant.-Ass.Interval						71 DP1	71 DP1
Days after Emergence						60 DE1	60 DE1
Entry No.	Entry/Trt. Description	Dose	Dose Unit	Appl. Code		7	8
13	FFA+IFT+TCM+CSA	537	G AI/HA	A		100.0 -	100.0 -
	ATRAZINE	560	G AI/HA	A			
	CAPRENO HERBICIDE	119.9	G AI/HA	B			
	ATRAZINE	560	G AI/HA	B			
	ROUNDUP POWER MAX	1263	G AI/HA	B			
	N-PAK AMS LIQUID	2.5	% V/V	B			
LSD P=.05						.	.
Standard Deviation						0.00	0.00
CV						0.0	0.0
Grand Mean						100.00	100.00
Levene's F^						.	.
Levene's Prob(F)						.	.
Rank X2						.	.
P(Rank X2)						.	.
Skewness^						.	.
Kurtosis^						.	.
Replicate F						0.000	0.000
Replicate Prob(F)						1.0000	1.0000
Treatment F						0.000	0.000
Treatment Prob(F)						1.0000	1.0000

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Untreated treatment(s) 1 excluded from analysis.
Could not calculate LSD (% mean diff) for columns 3,4,5,7,8 because error mean square = 0.
^Calculated from residual.

Purdue Weed Science

BCS-720 / Corn / Two-pass system / Grass & Broadleaf / Phyto & Efficacy

Trial ID: 20S-TPAC-CORN-05

Protocol Developer: Riley, Eric
License User: Childs, Dan

SE ID
EE22AD3 = 1 weed, % efficacy, in untreated % coverage
PE12AD1 = Estimation % phytotoxicity (PHYGEN) (symptoms describe in co
Target
1, AMBTR, W, BDIC, SOILBORN, , = Ambrosia trifida L.
2, ECHCG, W, BGRM, SOILBORN, , = Echinochloa crus-galli (L.) P.
Crop
1, ZEAMD, C, BCOR, DKC62-52RIB, RR2+LL+BT = Zea mays L. ssp. indentata STU
Assessment Type
CONTRO = Control
PHYGEN = Phytotoxicity - General, Injury
Assessment Unit
% = Percent
Sample Size Unit
PLOT = Plot
Plant.-Ass.Interval
35 DP1 = 1 ZEAMD 5/7/2020
43 DP1 = 1 ZEAMD 5/7/2020
52 DP1 = 1 ZEAMD 5/7/2020
71 DP1 = 1 ZEAMD 5/7/2020