

Southern Illinois University

Corn Hybrid Response to POST Herbicide Applications.

Trial ID: 12-ARC-20-S385

Location: Agronomy Res. Center

Investigator: Bryan Young

General Trial Information

Study Director: Bryan Young
Investigator: Bryan Young **Title:** Professor

Trial Status: F - one-year/final
Initiation Date: 4-12-12

Trial Location

City: Carbondale
State/Prov.: IL
Postal Code: 62901
Country: USA

Objectives:

To evaluate different genetic response to postemergence herbicide applications in corn.

Personnel

Study Director: Bryan Young
Investigator: Bryan Young **Title:** Professor
Affiliation: Southern Illinois University
Address: 1205 Lincoln Drive - AG 176 - MC 4415
Location: Carbondale IL
Postal Code: 62901 **E-mail:** bgyoung@siu.edu
Phone No.: 618-453-7679 **Mobile No.:** 618-713-6471

Crop Description

Crop 1: ZEAMD Zea mays indentata Dent corn
Variety: See treatment list
BCH Scale: BCOR **Planting Date:** 4-12-12
Planting Method: SEEDED Seeded **Rate, Unit:** 28000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN

Pest Description

Code: NA

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 22 FT
Plot Area, Unit: 220 FT2 **Tillage Type:** REDTIL reduced-till
Replications: 4 **Study Design:** RACOB L Randomized Complete Block (RCB)

No.	Previous Crop	Year
1.	GLXMA	2011

Maintenance

No.	Maintenance Treatment Name
1.	N 198 LB/A, P205 46 LB/A, K20 120 LB/A

Soil Description

% OM: 1.8 **Texture:** SIL SILT LOAM
pH: 6.3 **Soil Name:** STOY
CEC: 10.5

Additional Measured Elements

Element	Quantity	Unit
P1	65	LB/A
K	313	LB/A

Moisture and Weather Conditions

Overall Moisture Conditions: BELNOR below normal
Closest Weather Station: ICN - Carbondale IL **Distance, Unit:** 0.5 MI

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No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	4-3-12					7	DAY	34.6	78.3	F
2.	4-4-12	0.88	IN	RAIN	rain					
3.	4-10-12					7	DAY	30.1	79.2	F
4.	4-15-12	0.43	IN	RAIN	rain					
5.	4-16-12	0.39	IN	RAIN	rain					
6.	4-17-12					7	DAY	36.7	75.6	F
7.	4-20-12	0.25	IN	RAIN	rain					
8.	4-22-12	0.09	IN	RAIN	rain					
9.	4-24-12					7	DAY	43.7	80.9	F
10.	4-27-12	0.08	IN	RAIN	rain					
11.	4-30-12	0.05	IN	RAIN	rain					
12.	5-1-12					7	DAY	59.1	91.3	F
13.	5-4-12	0.02	IN	RAIN	rain					
14.	5-7-12	0.08	IN	RAIN	rain					
15.	5-8-12					7	DAY	43.3	79	F
16.	5-15-12					7	DAY	44.9	89.1	F
17.	5-20-12	0.4	IN	RAIN	rain					
18.	5-22-12					7	DAY	45.5	92.8	F
19.	5-29-12					7	DAY	46.3	89.8	F
20.	5-29-12	0.02	IN	RAIN	rain					
21.	5-30-12	0.02	IN	RAIN	rain					
22.	5-31-12	0.16	IN	RAIN	rain					
23.	6-4-12	0.16	IN	RAIN	rain					
24.	6-5-12					7	DAY	48.5	88.8	F
25.	6-11-12	0.62	IN	RAIN	rain					
26.	6-12-12					7	DAY	49.8	91.1	F
27.	6-17-12	0.06	IN	RAIN	rain					
28.	6-19-12					7	DAY	55.4	96.4	F
29.	6-26-12					7	DAY	51.1	105.4	F
30.	7-3-12					7	DAY	71.1	105	F
31.	7-8-12	1.15	IN	RAIN	rain					
32.	7-10-12					7	DAY	65.9	93.9	F
33.	7-14-12	0.11	IN	RAIN	rain					
34.	7-16-12	0.02	IN	RAIN	rain					
35.	7-17-12					7	DAY	60	102.3	F
36.	7-17-12	0.02	IN	RAIN	rain					
37.	7-23-12	0.02	IN	RAIN	rain					
38.	7-24-12					7	DAY	64.1	102.1	F
39.	7-26-12	0.53	IN	RAIN	rain					
40.	7-27-12	0.02	IN	RAIN	rain					
41.	7-29-12	0.27	IN	RAIN	rain					
42.	7-31-12					7	DAY	62.7	97.9	F
43.	8-2-12	0.02	IN	RAIN	rain					
44.	8-3-12	0.02	IN	RAIN	rain					
45.	8-4-12	2.83	IN	RAIN	rain					
46.	8-5-12	2.09	IN	RAIN	rain					
47.	8-7-12					7	DAY	54.1	97.2	F
48.	8-13-12	0.38	IN	RAIN	rain					
49.	8-14-12					7	DAY	51.2	92.5	F
50.	8-16-12	0.66	IN	RAIN	rain					
51.	8-21-12					7	DAY	54.6	94.1	F
52.	8-28-12					7	DAY	54.8	96.2	F

Southern Illinois University

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Application Description			
	A	B	C
Application Date:	5-2-12	5-15-12	5-25-12
Time of Day:	17:30	14:30	13:30
Application Method:	Spray	Spray	Spray
Application Timing:	V2	11"CN	20"CN
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	JRK	LAH	JRK
Air Temperature, Unit:	89 F	84 F	90 F
% Relative Humidity:	50	29	63
Wind Velocity, Unit:	4 MPH	2 MPH	4 MPH
Wind Direction:	S	N	S
Dew Presence (Y/N):	N no	N no	N no
Soil Temperature, Unit:	85 F	84 F	87 F
Soil Moisture:	NORMAL	BELNOR	BELNOR
% Cloud Cover:	5	10	50
Next Rain Occurred On:	5-4-12	5-20-12	5-29-12

Crop Stage At Each Application			
	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMD BCOR	ZEAMD BCOR	ZEAMD BCOR
Stage Scale Used:	DESC	DESC	DESC
Stage Majority, Percent:	V2	V5	V8
Stage Minimum, Percent:	V2	V5	V7
Stage Maximum, Percent:	V2	V5	V8
Height, Unit:	6 IN	11 IN	20 IN
Height Minimum, Maximum:	4 6	8 11	18 20

Pest Stage At Each Application			
	A	B	C
Pest 1 Code, Type, Scale:	NA DESC	NA DESC	NA DESC
Stage Majority, Percent:	NA	NA	NA

Application Equipment			
	A	B	C
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer
Equipment Type:	BACSPR	BACSPR	BACSPR
Operation Pressure, Unit:	30 PSI	30 PSI	30 PSI
Nozzle Type:	XR	XR	XR
Nozzle Size:	8002	8002	8002
Boom Length, Unit:	10 FT	10 FT	10 FT
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	ZEAMD 9-24-12 Moisture	ZEAMD 9-24-12 Test wt.	ZEAMD 9-24-12 Yield	ZEAMD GRORED	ZEAMD GRORED	ZEAMD GRORED
							Percent	lb/bu	bu/A	Percent	Percent	Percent
							7 DAT	21 DAT	42 DAT			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Stage	Appl Code				
1	DKC 61-69 VT3 ROUNDUP WEATHERMAX N-PAK AMS	4.5 SL 100 SL		0.77 lb ae/a 5 % v/v	22 fl oz/a 5 % v/v		V2 V2	A A	12.8 g-q	53.4 a	46 a	0.0 d 0.0 c 0.0 b
2	DKC 61-69 VT3 ROUNDUP WEATHERMAX N-PAK AMS	4.5 SL 100 SL		0.77 lb ae/a 5 % v/v	22 fl oz/a 5 % v/v		20"CN 20"CN	C C	12.6 i-q	53.4 a	32 a	0.0 d 0.0 c 0.0 b
3	DKC 61-69 VT3 CALLISTO COC (PRIME OIL) N-PAK AMS	4 SC 100 SL 100 SL		0.094 lb ai/a 1 % v/v 2.5 % v/v	3 fl oz/a 1 % v/v 2.5 % v/v		V2 V2 V2	A A A	12.9 e-p	54.4 a	38 a	0.0 d 0.0 c 0.0 b
4	DKC 61-69 VT3 CALLISTO COC (PRIME OIL) N-PAK AMS	4 SC 100 SL 100 SL		0.094 lb ai/a 1 % v/v 2.5 % v/v	3 fl oz/a 1 % v/v 2.5 % v/v		20"CN 20"CN 20"CN	C C C	13.0 d-o	53.9 a	40 a	0.0 d 0.0 c 0.0 b
5	DKC 61-69 VT3 IMPACT MSO (MSO ULTRA) N-PAK AMS	2.8 SC 100 SL 100 SL		0.0164 lb ai/a 1 % v/v 5 % v/v	0.75 fl oz/a 1 % v/v 5 % v/v		V2 V2 V2	A A A	11.4 pqr	47.5 a	28 a	0.0 d 0.0 c 0.0 b
6	DKC 61-69 VT3 IMPACT MSO (MSO ULTRA) N-PAK AMS	2.8 SC 100 SL 100 SL		0.0164 lb ai/a 1 % v/v 5 % v/v	0.75 fl oz/a 1 % v/v 5 % v/v		20"CN 20"CN 20"CN	C C C	13.6 a-l	56.6 a	41 a	0.0 d 0.0 c 0.0 b
7	DKC 61-69 VT3 HALEX GT NIS (ACTIVATOR 90) N-PAK AMS	4.38 CS 100 SL 100 SL		1.98 lb ai/a 0.25 % v/v 5 % v/v	3.6 pt/a 0.25 % v/v 5 % v/v		V2 V2 V2	A A A	13.5 a-m	59.1 a	44 a	0.0 d 0.0 c 0.0 b
8	DKC 61-69 VT3 HALEX GT NIS (ACTIVATOR 90) N-PAK AMS	4.38 CS 100 SL 100 SL		1.98 lb ai/a 0.25 % v/v 5 % v/v	3.6 pt/a 0.25 % v/v 5 % v/v		20"CN 20"CN 20"CN	C C C	13.6 a-m	55.3 a	35 a	0.0 d 0.0 c 0.0 b
9	DKC 61-69 VT3 CAPRENO COC (PRIME OIL) N-PAK AMS	3.45 SC 100 SL 100 SL		0.081 lb ai/a 1 % v/v 2.5 % v/v	3 fl oz/a 1 % v/v 2.5 % v/v		V2 V2 V2	A A A	12.9 f-p	53.9 a	32 a	0.0 d 0.0 c 0.0 b
10	DKC 61-69 VT3 CAPRENO COC (PRIME OIL) N-PAK AMS	3.45 SC 100 SL 100 SL		0.081 lb ai/a 1 % v/v 2.5 % v/v	3 fl oz/a 1 % v/v 2.5 % v/v		20"CN 20"CN 20"CN	C C C	13.6 a-m	57.5 a	54 a	2.5 bc 1.3 b 0.0 b
11	DKC 61-69 VT3 STATUS CALLISTO COC (PRIME OIL) N-PAK AMS	56 WG 4 SC 100 SL 100 SL		0.0875 lb ae/a 0.094 lb ai/a 1 % v/v 2.5 % v/v	2.5 oz/a 3 fl oz/a 1 % v/v 2.5 % v/v		V2 V2 V2 V2	A A A A	13.2 c-n	58.2 a	47 a	0.0 d 0.0 c 0.0 b
12	DKC 61-69 VT3 STATUS CALLISTO COC (PRIME OIL) N-PAK AMS	56 WG 4 SC 100 SL 100 SL		0.0875 lb ae/a 0.094 lb ai/a 1 % v/v 2.5 % v/v	2.5 oz/a 3 fl oz/a 1 % v/v 2.5 % v/v		20"CN 20"CN 20"CN 20"CN	C C C C	12.4 j-r	52.9 a	31 a	0.0 d 0.0 c 0.0 b

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Pest Code Crop Code Rating Date Rating Type							ZEAMD 9-24-12 Moisture	ZEAMD 9-24-12 Test wt.	ZEAMD 9-24-12 Yield	ZEAMD GRORED	ZEAMD GRORED	ZEAMD GRORED			
Rating Unit Rating Timing Trt-Eval Interval							Percent	lb/bu	bu/A	Percent	Percent	Percent			
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit	Appl Stage	Code						
										7 DAT	21 DAT	42 DAT			
13	DKC 61-69 VT3 STATUS IMPACT MSO (MSO ULTRA) N-PAK AMS	56 WG 2.8 SC 100 SL 100 SL		0.0875 lb ae/a 0.0164 lb ai/a 1 % v/v 5 % v/v	2.5 oz/a 0.75 fl oz/a 1 % v/v 5 % v/v		V2 V2 V2 V2	A A A A		13.0 d-o	56.3 a	65 a	0.0 d	0.0 c	0.0 b
14	DKC 61-69 VT3 STATUS IMPACT MSO (MSO ULTRA) N-PAK AMS	56 WG 2.8 SC 100 SL 100 SL		0.0875 lb ae/a 0.0164 lb ai/a 1 % v/v 5 % v/v	2.5 oz/a 0.75 fl oz/a 1 % v/v 5 % v/v		20"CN 20"CN 20"CN 20"CN	C C C C		13.7 a-j	56.2 a	33 a	0.0 d	0.0 c	0.0 b
15	DKC 61-69 VT3 TRIPLEFLEX NIS (ACTIVATOR 90) N-PAK AMS	4.25 EC 100 SL 100 SL		0.80 lb ai/a 0.25 % v/v 5 % v/v	24 fl oz/a 0.25 % v/v 5 % v/v		V2 V2 V2	A A A		14.0 a-i	59.9 a	41 a	0.0 d	0.0 c	0.0 b
16	DKC 61-69 VT3 TRIPLEFLEX NIS (ACTIVATOR 90) N-PAK AMS	4.25 EC 100 SL 100 SL		0.80 lb ai/a 0.25 % v/v 5 % v/v	24 fl oz/a 0.25 % v/v 5 % v/v		11"CN 11"CN 11"CN	B B B		13.1 c-o	55.5 a	36 a	0.0 d	0.0 c	0.0 b
17	DKC 61-69 VT3 RESOLVE SG NIS (ACTIVATOR 90) N-PAK AMS	25 SG 100 SL 100 SL		0.0188 lb ai/a 0.25 % v/v 3.9 % v/v	1.2 oz/a 0.25 % v/v 3.9 % v/v		V2 V2 V2	A A A		13.3 b-n	55.4 a	27 a	0.0 d	0.0 c	0.0 b
18	DKC 61-69 VT3 RESOLVE SG NIS (ACTIVATOR 90) N-PAK AMS	25 SG 100 SL 100 SL		0.0188 lb ai/a 0.25 % v/v 3.9 % v/v	1.2 oz/a 0.25 % v/v 3.9 % v/v		20"CN 20"CN 20"CN	C C C		12.5 j-r	52.4 a	50 a	1.3 cd	0.0 c	0.0 b
19	DKC 64-69 GENVT3P ROUNDUP WEATHERMAX N-PAK AMS	4.5 SL 100 SL		0.77 lb ae/a 5 % v/v	22 fl oz/a 5 % v/v		V2 V2	A A		13.3 b-n	54.0 a	36 a	0.0 d	0.0 c	0.0 b
20	DKC 64-69 GENVT3P ROUNDUP WEATHERMAX N-PAK AMS	4.5 SL 100 SL		0.77 lb ae/a 5 % v/v	22 fl oz/a 5 % v/v		20"CN 20"CN	C C		14.8 ab	60.4 a	29 a	0.0 d	0.0 c	0.0 b
21	DKC 64-69 GENVT3P CALLISTO COC (PRIME OIL) N-PAK AMS	4 SC 100 SL 100 SL		0.094 lb ai/a 1 % v/v 2.5 % v/v	3 fl oz/a 1 % v/v 2.5 % v/v		V2 V2 V2	A A A		15.0 a	59.3 a	33 a	0.0 d	0.0 c	0.0 b
22	DKC 64-69 GENVT3P CALLISTO COC (PRIME OIL) N-PAK AMS	4 SC 100 SL 100 SL		0.094 lb ai/a 1 % v/v 2.5 % v/v	3 fl oz/a 1 % v/v 2.5 % v/v		20"CN 20"CN 20"CN	C C C		12.5 j-r	46.3 a	31 a	0.0 d	0.0 c	0.0 b
23	DKC 64-69 GENVT3P IMPACT MSO (MSO ULTRA) N-PAK AMS	2.8 SC 100 SL 100 SL		0.0164 lb ai/a 1 % v/v 5 % v/v	0.75 fl oz/a 1 % v/v 5 % v/v		V2 V2 V2	A A A		12.0 n-r	44.4 a	21 a	0.0 d	0.0 c	0.0 b
24	DKC 64-69 GENVT3P IMPACT MSO (MSO ULTRA) N-PAK AMS	2.8 SC 100 SL 100 SL		0.0164 lb ai/a 1 % v/v 5 % v/v	0.75 fl oz/a 1 % v/v 5 % v/v		20"CN 20"CN 20"CN	C C C		13.7 a-k	52.6 a	39 a	0.0 d	0.0 c	0.0 b

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Pest Code Crop Code Rating Date Rating Type								ZEAMD 9-24-12 Moisture	ZEAMD 9-24-12 Test wt.	ZEAMD 9-24-12 Yield	ZEAMD GRORED	ZEAMD GRORED	ZEAMD GRORED
Rating Unit Rating Timing Trt-Eval Interval								Percent	lb/bu	bu/A	Percent	Percent	Percent
Trt Treatment No. Name													
Form	Form	Rate	Other	Other	Growth	Appl							
Conc	Type	Unit	Rate	Rate	Unit	Stage	Code						
								7 DAT	21 DAT	42 DAT			
25	DKC 64-69 GENVT3P							14.8 ab	59.3 a	26 a	0.0 d	0.0 c	0.0 b
	HALEX GT	4.38 CS	1.98 lb ai/a	3.6 pt/a	V2	A							
	NIS (ACTIVATOR 90)	100 SL	0.25 % v/v	0.25 % v/v	V2	A							
	N-PAK AMS	100 SL	5 % v/v	5 % v/v	V2	A							
26	DKC 64-69 GENVT3P							13.6 a-l	52.6 a	28 a	0.0 d	0.0 c	0.0 b
	HALEX GT	4.38 CS	1.98 lb ai/a	3.6 pt/a	20"CN	C							
	NIS (ACTIVATOR 90)	100 SL	0.25 % v/v	0.25 % v/v	20"CN	C							
	N-PAK AMS	100 SL	5 % v/v	5 % v/v	20"CN	C							
27	DKC 64-69 GENVT3P							13.1 c-o	51.1 a	29 a	0.0 d	0.0 c	0.0 b
	CAPRENO	3.45 SC	0.081 lb ai/a	3 fl oz/a	V2	A							
	COC (PRIME OIL)	100 SL	1 % v/v	1 % v/v	V2	A							
	N-PAK AMS	100 SL	2.5 % v/v	2.5 % v/v	V2	A							
28	DKC 64-69 GENVT3P							13.8 a-j	54.5 a	37 a	3.8 b	1.3 b	0.0 b
	CAPRENO	3.45 SC	0.081 lb ai/a	3 fl oz/a	20"CN	C							
	COC (PRIME OIL)	100 SL	1 % v/v	1 % v/v	20"CN	C							
	N-PAK AMS	100 SL	2.5 % v/v	2.5 % v/v	20"CN	C							
29	DKC 64-69 GENVT3P							14.2 a-g	58.6 a	47 a	0.0 d	0.0 c	0.0 b
	STATUS	56 WG	0.0875 lb ae/a	2.5 oz/a	V2	A							
	CALLISTO	4 SC	0.094 lb ai/a	3 fl oz/a	V2	A							
	COC (PRIME OIL)	100 SL	1 % v/v	1 % v/v	V2	A							
	N-PAK AMS	100 SL	2.5 % v/v	2.5 % v/v	V2	A							
30	DKC 64-69 GENVT3P							14.6 abc	60.0 a	31 a	0.0 d	0.0 c	0.0 b
	STATUS	56 WG	0.0875 lb ae/a	2.5 oz/a	20"CN	C							
	CALLISTO	4 SC	0.094 lb ai/a	3 fl oz/a	20"CN	C							
	COC (PRIME OIL)	100 SL	1 % v/v	1 % v/v	20"CN	C							
	N-PAK AMS	100 SL	2.5 % v/v	2.5 % v/v	20"CN	C							
31	DKC 64-69 GENVT3P							14.4 a-e	57.0 a	56 a	0.0 d	0.0 c	0.0 b
	STATUS	56 WG	0.0875 lb ae/a	2.5 oz/a	V2	A							
	IMPACT	2.8 SC	0.0164 lb ai/a	0.75 fl oz/a	V2	A							
	MSO (MSO ULTRA)	100 SL	1 % v/v	1 % v/v	V2	A							
	N-PAK AMS	100 SL	5 % v/v	5 % v/v	V2	A							
32	DKC 64-69 GENVT3P							14.3 a-f	54.1 a	25 a	0.0 d	0.0 c	0.0 b
	STATUS	56 WG	0.0875 lb ae/a	2.5 oz/a	20"CN	C							
	IMPACT	2.8 SC	0.0164 lb ai/a	0.75 fl oz/a	20"CN	C							
	MSO (MSO ULTRA)	100 SL	1 % v/v	1 % v/v	20"CN	C							
	N-PAK AMS	100 SL	5 % v/v	5 % v/v	20"CN	C							
33	DKC 64-69 GENVT3P							14.1 a-h	55.0 a	27 a	0.0 d	0.0 c	0.0 b
	TRIPLEFLEX	4.25 EC	0.80 lb ai/a	24 fl oz/a	V2	A							
	NIS (ACTIVATOR 90)	100 SL	0.25 % v/v	0.25 % v/v	V2	A							
	N-PAK AMS	100 SL	5 % v/v	5 % v/v	V2	A							
34	DKC 64-69 GENVT3P							14.2 a-g	57.1 a	36 a	0.0 d	0.0 c	0.0 b
	TRIPLEFLEX	4.25 EC	0.80 lb ai/a	24 fl oz/a	11"CN	B							
	NIS (ACTIVATOR 90)	100 SL	0.25 % v/v	0.25 % v/v	11"CN	B							
	N-PAK AMS	100 SL	5 % v/v	5 % v/v	11"CN	B							
35	DKC 64-69 GENVT3P							14.5 a-d	60.1 a	21 a	0.0 d	0.0 c	0.0 b
	RESOLVE SG	25 SG	0.0188 lb ai/a	1.2 oz/a	V2	A							
	NIS (ACTIVATOR 90)	100 SL	0.25 % v/v	0.25 % v/v	V2	A							
	N-PAK AMS	100 SL	3.9 % v/v	3.9 % v/v	V2	A							
36	DKC 64-69 GENVT3P							13.2 c-n	52.0 a	22 a	26.3 a	21.3 a	10.8 a
	RESOLVE SG	25 SG	0.0188 lb ai/a	1.2 oz/a	20"CN	C							
	NIS (ACTIVATOR 90)	100 SL	0.25 % v/v	0.25 % v/v	20"CN	C							
	N-PAK AMS	100 SL	3.9 % v/v	3.9 % v/v	20"CN	C							

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	ZEAMD 9-24-12 Moisture Percent	ZEAMD 9-24-12 Test wt. lb/bu	ZEAMD 9-24-12 Yield bu/A	ZEAMD GRORED Percent 7 DAT	ZEAMD GRORED Percent 21 DAT	ZEAMD GRORED Percent 42 DAT
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit	Stage	Appl Code				
37 DKC 62-58 GENVT2P ROUNDUP WEATHERMAX N-PAK AMS	4.5 SL 100 SL	SL	0.77 lb ae/a 5 % v/v	22 fl oz/a 5 % v/v	V2 V2	A A			11.9 n-r	56.6 a	33 a	0.0 d 0.0 c 0.0 b
38 DKC 62-58 GENVT2P ROUNDUP WEATHERMAX N-PAK AMS	4.5 SL 100 SL	SL	0.77 lb ae/a 5 % v/v	22 fl oz/a 5 % v/v	20"CN 20"CN	C C			11.9 n-r	55.0 a	40 a	0.0 d 0.0 c 0.0 b
39 DKC 62-58 GENVT2P CALLISTO COC (PRIME OIL) N-PAK AMS	4 SC 100 SL 100 SL	SC SL SL	0.094 lb ai/a 1 % v/v 2.5 % v/v	3 fl oz/a 1 % v/v 2.5 % v/v	V2 V2 V2	A A A			12.0 n-r	57.0 a	38 a	0.0 d 0.0 c 0.0 b
40 DKC 62-58 GENVT2P CALLISTO COC (PRIME OIL) N-PAK AMS	4 SC 100 SL 100 SL	SC SL SL	0.094 lb ai/a 1 % v/v 2.5 % v/v	3 fl oz/a 1 % v/v 2.5 % v/v	20"CN 20"CN 20"CN	C C C			11.6 o-r	54.3 a	36 a	0.0 d 0.0 c 0.0 b
41 DKC 62-58 GENVT2P IMPACT MSO (MSO ULTRA) N-PAK AMS	2.8 SC 100 SL 100 SL	SC SL SL	0.0164 lb ai/a 1 % v/v 5 % v/v	0.75 fl oz/a 1 % v/v 5 % v/v	V2 V2 V2	A A A			12.1 l-r	54.4 a	36 a	0.0 d 0.0 c 0.0 b
42 DKC 62-58 GENVT2P IMPACT MSO (MSO ULTRA) N-PAK AMS	2.8 SC 100 SL 100 SL	SC SL SL	0.0164 lb ai/a 1 % v/v 5 % v/v	0.75 fl oz/a 1 % v/v 5 % v/v	20"CN 20"CN 20"CN	C C C			11.0 r	51.3 a	48 a	0.0 d 0.0 c 0.0 b
43 DKC 62-58 GENVT2P HALEX GT NIS (ACTIVATOR 90) N-PAK AMS	4.38 CS 100 SL 100 SL	CS SL SL	1.98 lb ai/a 0.25 % v/v 5 % v/v	3.6 pt/a 0.25 % v/v 5 % v/v	V2 V2 V2	A A A			12.3 j-r	59.6 a	32 a	0.0 d 0.0 c 0.0 b
44 DKC 62-58 GENVT2P HALEX GT NIS (ACTIVATOR 90) N-PAK AMS	4.38 CS 100 SL 100 SL	CS SL SL	1.98 lb ai/a 0.25 % v/v 5 % v/v	3.6 pt/a 0.25 % v/v 5 % v/v	20"CN 20"CN 20"CN	C C C			11.3 qr	51.2 a	45 a	0.0 d 0.0 c 0.0 b
45 DKC 62-58 GENVT2P CAPRENO COC (PRIME OIL) N-PAK AMS	3.45 SC 100 SL 100 SL	SC SL SL	0.081 lb ai/a 1 % v/v 2.5 % v/v	3 fl oz/a 1 % v/v 2.5 % v/v	V2 V2 V2	A A A			12.2 k-r	57.6 a	32 a	0.0 d 0.0 c 0.0 b
46 DKC 62-58 GENVT2P CAPRENO COC (PRIME OIL) N-PAK AMS	3.45 SC 100 SL 100 SL	SC SL SL	0.081 lb ai/a 1 % v/v 2.5 % v/v	3 fl oz/a 1 % v/v 2.5 % v/v	20"CN 20"CN 20"CN	C C C			11.9 n-r	54.7 a	49 a	2.5 bc 1.3 b 0.0 b
47 DKC 62-58 GENVT2P STATUS CALLISTO COC (PRIME OIL) N-PAK AMS	56 WG 4 SC 100 SL 100 SL	WG SC SL SL	0.0875 lb ae/a 0.094 lb ai/a 1 % v/v 2.5 % v/v	2.5 oz/a 3 fl oz/a 1 % v/v 2.5 % v/v	V2 V2 V2 V2	A A A A			12.2 k-r	56.9 a	53 a	0.0 d 0.0 c 0.0 b
48 DKC 62-58 GENVT2P STATUS CALLISTO COC (PRIME OIL) N-PAK AMS	56 WG 4 SC 100 SL 100 SL	WG SC SL SL	0.0875 lb ae/a 0.094 lb ai/a 1 % v/v 2.5 % v/v	2.5 oz/a 3 fl oz/a 1 % v/v 2.5 % v/v	20"CN 20"CN 20"CN 20"CN	C C C C			12.6 h-q	59.1 a	43 a	0.0 d 0.0 c 0.0 b

Southern Illinois University

Corn Hybrid Response to POST Herbicide Applications.

Trial ID: 12-ARC-20-S385

Location: Agronomy Res. Center

Investigator: Bryan Young

Pest Code							ZEAMD	ZEAMD	ZEAMD	ZEAMD	ZEAMD	ZEAMD			
Crop Code							9-24-12	9-24-12	9-24-12						
Rating Date							Moisture	Test wt.	Yield	GRORED	GRORED	GRORED			
Rating Type							Percent	lb/bu	bu/A	Percent	Percent	Percent			
Rating Unit										7 DAT	21 DAT	42 DAT			
Rating Timing															
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Unit	Appl Stage	Code						
49	DKC 62-58 GENVT2P									12.0 n-r	55.4 a	55 a	0.0 d	0.0 c	0.0 b
	STATUS	56	WG	0.0875	lb ae/a	2.5 oz/a	V2		A						
	IMPACT	2.8	SC	0.0164	lb ai/a	0.75 fl oz/a	V2		A						
	MSO (MSO ULTRA)	100	SL		1 % v/v	1 % v/v	V2		A						
	N-PAK AMS	100	SL		5 % v/v	5 % v/v	V2		A						
50	DKC 62-58 GENVT2P									12.1 m-r	53.5 a	29 a	0.0 d	0.0 c	0.0 b
	STATUS	56	WG	0.0875	lb ae/a	2.5 oz/a	20"CN		C						
	IMPACT	2.8	SC	0.0164	lb ai/a	0.75 fl oz/a	20"CN		C						
	MSO (MSO ULTRA)	100	SL		1 % v/v	1 % v/v	20"CN		C						
	N-PAK AMS	100	SL		5 % v/v	5 % v/v	20"CN		C						
51	DKC 62-58 GENVT2P									11.7 o-r	54.3 a	38 a	0.0 d	0.0 c	0.0 b
	TRIPLEFLEX	4.25	EC	0.80	lb ai/a	24 fl oz/a	V2		A						
	NIS (ACTIVATOR 90)	100	SL		0.25 % v/v	0.25 % v/v	V2		A						
	N-PAK AMS	100	SL		5 % v/v	5 % v/v	V2		A						
52	DKC 62-58 GENVT2P									11.8 n-r	55.6 a	39 a	0.0 d	0.0 c	0.0 b
	TRIPLEFLEX	4.25	EC	0.80	lb ai/a	24 fl oz/a	11"CN		B						
	NIS (ACTIVATOR 90)	100	SL		0.25 % v/v	0.25 % v/v	11"CN		B						
	N-PAK AMS	100	SL		5 % v/v	5 % v/v	11"CN		B						
53	DKC 62-58 GENVT2P									12.3 j-r	56.4 a	35 a	0.0 d	0.0 c	0.0 b
	RESOLVE SG	25	SG	0.0188	lb ai/a	1.2 oz/a	V2		A						
	NIS (ACTIVATOR 90)	100	SL		0.25 % v/v	0.25 % v/v	V2		A						
	N-PAK AMS	100	SL		3.9 % v/v	3.9 % v/v	V2		A						
54	DKC 62-58 GENVT2P									12.3 j-r	57.2 a	41 a	0.0 d	0.0 c	0.0 b
	RESOLVE SG	25	SG	0.0188	lb ai/a	1.2 oz/a	20"CN		C						
	NIS (ACTIVATOR 90)	100	SL		0.25 % v/v	0.25 % v/v	20"CN		C						
	N-PAK AMS	100	SL		3.9 % v/v	3.9 % v/v	20"CN		C						
LSD (P=.05)							1.51	8.54	23.8	1.57	0.94	0.57			
Standard Deviation							1.08	6.10	17.0	1.12	0.67	0.41			
CV							8.31	11.06	45.56	167.22	145.58	204.12			
Replicate F							8.794	6.948	13.323	1.562	2.038	1.000			
Replicate Prob(F)							0.0001	0.0002	0.0001	0.2009	0.1107	0.3945			
Treatment F							3.495	1.209	1.269	41.499	73.885	51.841			
Treatment Prob(F)							0.0001	0.1944	0.1319	0.0001	0.0001	0.0001			

Corn Hybrid Response to POST Herbicide Applications.

Trial ID: 12-ARC-20-S385

Location: Agronomy Res. Center

Investigator: Bryan Young

Trial Comments

1. Protocol: Monsanto (52-02).
2. Ratings: CI (describe injury and rate separately if needed chlorosis, necrosis, growth reduction) at 7, 21, and 42 DAT.
Take photos of injury symptoms at any evaluation where they occur.
Inspect/Evaluate ear development.
3. V2 timing is targeted for when the second collar is visible.
11"CN timing is for Tripleflex treatments only.
20"CN timing is 20 inch corn or V6, which ever comes first.
4. Take photos at the A + B + C applications to document corn growth stage.
5. Blanket PRE application of Degree Xtra (3 qt/A) + Atrazine (1 qt/A) was applied to all plots 10 ft wide on 4-12-12.
6. Yield, test weight.
7. DAT = Days after various POST applications;
Ratings at 7 days after the V2, 11"CN, and 20"CN were on 5-9-12, 5-22-12, and 6-1-12, respectively.
Ratings at 21 days after the V2, 11"CN, and 20"CN were on 5-23-12, 6-5-12, and 6-15-12, respectively.
Ratings at 42 days after the V2, 11"CN, and 20"CN were on 6-13-12, 6-26-12, and 7-6-12, respectively.
8. GRORED = Growth reduction, there was no chlorosis nor necrosis observed at any time.
9. Harvested 9-24-12, (2) 30 inch rows by 16 ft.