

Dicamba in No-Till Two-Pass DuPont Programs for RR2X Soybeans.

Trial ID: 16-DSO-DPX-130 Location: De Soto, IL Trial Year: 2016  
Investigator: Karla L. Gage, Ph.D.

**Trial Status:** F one-year/final  
**Initiation Date:** 4-25-16  
**Completion Date:** 7-19-16

**Trial Location**

**City:** De Soto **Country:** USA  
**State/Prov.:** Illinois IL  
**Postal Code:** 62924

**Latitude of LL Corner** °: 37.795203 N  
**Longitude of LL Corner** °: 89.262832 W  
**Altitude of LL Corner, Unit:** 380.00 FT  
**Angle y-axis to North** °: 90.00

**Objectives:**  
Demonstrate DuPont Crop Protection programs for no-till in RR2X soybeans.

**Contacts**

**Study Director:** Karla Gage, Ph.D. **Title:** Assistant Professor of Weed Science  
**Organization:** Southern Illinois University Carbondale  
**Address:** 1205 Lincoln Drive MC 4415 **Phone No.:** 618-453-7679  
**City+State/Prov:** Carbondale, IL  
**Postal Code:** 62901 **E-mail:** kgage@siu.edu  
**Country:** USA

**Crop Description**

**Crop 1:** GLXMA Glycine max Soybean  
**Variety:** AG40X6 **BBCH Scale:** BSOY  
**Description:** RR2X

**Planting Rate, Unit:** 140000 S/A  
**Depth, Unit:** 1 IN  
**Row Spacing, Unit:** 30 IN  
**Soil Temperature, Unit:** 65 F  
**Soil Moisture:** NORMAL  
**Seed Bed:** MEDTRA

**Planting Date:** 5-7-16  
**Planting Method:** SEEDED

**Pest Description**

**Pest 1 Type:** W **Code:** ERICA *Conyza canadensis* (L.) Crong.  
**Common Name:** horseweed  
**Description:** glyphosate-resistant marestail

**Pest 2 Type:** W **Code:** AMATA *Amaranthus rudis* Sauer  
**Common Name:** waterhemp, common  
**Description:** glyphosate-resistant waterhemp

**Site and Design**

**Treated Plot Width:** 6.67 FT **Total Plot Width:** 10 FT **Site Type:** FIELD  
**Treated Plot Length:** 30 FT **Total Plot Length:** 30 FT **Experimental Unit:** 1 PLOT  
**Tillage Type:** NOTILL no-till  
**Study Design:** RACOB� Randomized Complete Block (RCB)

**Replications:** 3  
**Untreated Arrangement:** INCLUDED single control randomized in each block

No.	Previous Crop	Year
1.	GLXMA	2015

**Maintenance**

No.	Maintenance Product Name
1.	N ___ LB/A, P2O5 ___ LB/A, K2O ___ LB/A

**Soil Description**

**Description Name:** DSO\_west\_2016  
**% Sand:** 15.4 **% OM:** 1.96 **Texture:** SIL silt loam  
**% Silt:** 64.7 **pH:** 7.1 **Soil Name:** Okaw  
**% Clay:** 19.9 **CEC:** 7.91

**Additional Measured Elements**

Element	Quantity	Unit
P1	52	lb/A
K	278	lb/A

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Investigator: Karla L. Gage, Ph.D.**Moisture and Weather Conditions****Overall Moisture Conditions: NORMAL****Closest Weather Station: SOUTHERN IL AIRPORT (93810)****Distance, Unit: 1.5 MI**

No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	4-1-16					7	DAY	31	67	F
2.	4-6-16	0.27	IN	RAIN	rain	2	DAY			
3.	4-8-16					7	DAY	30	73	F
4.	4-10-16	0.99	IN	RAIN	rain	2	DAY			
5.	4-15-16					7	DAY	47	80	F
6.	4-20-16	1.76	IN	RAIN	rain	2	DAY			
7.	4-22-16					7	DAY	47	81	F
8.	4-26-16	1.59	IN	RAIN	rain	6	DAY			
9.	4-29-16					7	DAY	45	78	F
10.	5-4-16	0.03	IN	RAIN	rain	1	DAY			
11.	5-6-16					7	DAY	44	86	F
12.	5-9-16	2.92	IN	RAIN	rain	4	DAY			
13.	5-13-16					7	DAY	39	74	F
14.	5-16-16	1.27	IN	RAIN	rain	2	DAY			
15.	5-20-16					7	DAY	49	82	F
16.	5-20-16	0.1	IN	RAIN	rain	1	DAY			
17.	5-25-16	2.12	IN	RAIN	rain	3	DAY			
18.	5-27-16					7	DAY	61	86	F
19.	6-1-16	0.11	IN	RAIN	rain	1	DAY			
20.	6-3-16					7	DAY	55	87	F
21.	6-3-16	0.83	IN	RAIN	rain	2	DAY			
22.	6-6-16	0.36	IN	RAIN	rain	1	DAY			
23.	6-10-16					7	DAY	62	97	F
24.	6-15-16	0.21	IN	RAIN	rain	1	DAY			
25.	6-17-16					7	DAY	66	94	F
26.	6-24-16					7	DAY	59	93	F
27.	6-25-16	0.36	IN	RAIN	rain	3	DAY			
28.	6-30-16	0.02	IN	RAIN	rain	1	DAY			
29.	7-1-16					7	DAY	60	90	F
30.	7-2-16	2.98	IN	RAIN	rain	3	DAY			
31.	7-6-16	4.48	IN	RAIN	rain	3	DAY			
32.	7-8-16					7	DAY	68	92	F
33.	7-12-16	0.82	IN	RAIN	rain	2	DAY			
34.	7-15-16					7	DAY	69	93	F
35.	7-22-16					7	DAY	72	92	F
36.	7-22-16	0.47	IN	RAIN	rain	1	DAY			
37.	7-26-16	0.09	IN	RAIN	rain	1	DAY			
38.	7-28-16	1.79	IN	RAIN	rain	6	DAY			

**Comment:**

Rainfall and air temperature were recorded at SOUTHERN ILLINOIS AIRPORT (93810) 1.5 miles SSE and provided by NOAA's National Centers for Environmental Information. Air temperatures given are summarized as weekly high and low, detailed weather data is available on request.

Dicamba in No-Till Two-Pass DuPont Programs for RR2X Soybeans.

Trial ID: 16-DSO-DPX-130 Location: De Soto, IL Trial Year: 2016  
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## Application Description

	A	B
Application Date:	4-25-16	6-6-16
Appl. Start Time:	8:00	9:00
Appl. Stop Time:	8:30	9:40
Application Method:	Spray	Spray
Application Timing:	EPP15	2-4"W
Application Placement:	BROFOL	BROFOL
Applied By:	KNW	RLS
Air Temperature, Unit:	71 F	81 F
% Relative Humidity:	66	61
Wind Velocity, Unit:	4 MPH	3 MPH
Wind Direction:	S	SW
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	60 F	78 F
Soil Moisture:	NORMAL	NORMAL
% Cloud Cover:	0	0
Next Moisture Occurred On:	4-26-16	6-6-16
Time to Next Moisture, Unit:	32 HR	12 HR

## Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA	GLXMA
Stage Scale Used:	DESC	DESC
Stage Majority, Percent:	NA	V2
Stage Minimum, Percent:		V2
Stage Maximum, Percent:		V2
Height, Unit:		5 IN
Height Minimum, Maximum:		4 5

## Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	ERICA W	ERICA W
Stage Majority, Percent:	20	25
Stage Minimum, Percent:	15	15
Stage Maximum, Percent:	20	40
Height, Unit:	4 IN	5 IN
Height Minimum, Maximum:	2 6	3 7
Density, Unit:	4 FT2	0.01 FT2
Pest 2 Code, Type, Scale:	AMATA W	AMATA W
Stage Majority, Percent:	COT	8
Stage Minimum, Percent:	COT	2
Stage Maximum, Percent:	2	12
Height, Unit:	0.25 IN	3.5 IN
Height Minimum, Maximum:	0.25 0.25	0.5 7
Density, Unit:	50 FT2	20 FT2

## Application Equipment

	A	B
Appl. Equipment:	CO2 sprayer	CO2 sprayer
Equipment Type:	BACSPR	BACSPR
Operation Pressure, Unit:	30 PSI	30 PSI
Nozzle Type:	TTI	TTI
Nozzle Size:	11002	11002
Boom Length, Unit:	6.67 FT	6.67 FT
Spray Volume, Unit:	15 GPA	15 GPA

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Pest Code					GLXMA	GLXMA	GLXMA	GLXMA
Crop Code					5-21-16	6-6-16	6-20-16	7-5-16
Rating Date					Injury	Injury	Injury	Injury
Rating Type					Percent	Percent	Percent	Percent
Rating Unit					14 DAP	42 DA-A	14 DA-B	29 DA-B
Rating Timing					26 DA-A	0 DA-B	14 DA-B	29 DA-B
Trt-Eval Interval								
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
1	TRIVENCE	61.3	WG	0.307 lb ai/a	8 oz/a		EPP15 A	0 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		EPP15 A	0 a
	D1691	4	SL	0.5 lb ae/a	16 fl oz/a		EPP15 A	0 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		2-4"W B	0 a
	D1691	4	SL	0.5 lb ae/a	16 fl oz/a		2-4"W B	0 a
2	TRIVENCE	61.3	WG	0.307 lb ai/a	8 oz/a		EPP15 A	0 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		EPP15 A	0 a
	D1691	4	SL	0.5 lb ae/a	16 fl oz/a		EPP15 A	0 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		2-4"W B	0 a
	CINCH	7.64	SC	0.955 lb ai/a	1 pt/a		2-4"W B	0 a
	D1691	4	SL	0.5 lb ae/a	16 fl oz/a		2-4"W B	0 a
3	ENVIVE	41.3	WG	0.09 lb ai/a	3.5 oz/a		EPP15 A	0 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		EPP15 A	0 a
	D1691	4	SL	0.5 lb ae/a	16 fl oz/a		EPP15 A	0 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		2-4"W B	0 a
	D1691	4	SL	0.5 lb ae/a	16 fl oz/a		2-4"W B	0 a
4	ENVIVE	41.3	WG	0.09 lb ai/a	3.5 oz/a		EPP15 A	0 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		EPP15 A	0 a
	D1691	4	SL	0.5 lb ae/a	16 fl oz/a		EPP15 A	3 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		2-4"W B	0 a
	CINCH	7.64	SC	0.955 lb ai/a	1 pt/a		2-4"W B	0 a
	D1691	4	SL	0.5 lb ae/a	16 fl oz/a		2-4"W B	0 a
5	ENVIVE	41.3	WG	0.09 lb ai/a	3.5 oz/a		EPP15 A	0 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		EPP15 A	0 a
	D1691	4	SL	0.5 lb ae/a	16 fl oz/a		EPP15 A	0 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		2-4"W B	0 a
	PREFIX	5.29	EC	1.32 lb ai/a	2 pt/a		2-4"W B	0 a
6	CANOPY BLEND	58.3	SG	0.273 lb ai/a	7.5 oz/a		EPP15 A	0 a
	CINCH	7.64	SC	0.955 lb ai/a	1 pt/a		EPP15 A	0 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		EPP15 A	8 a
	D1691	4	SL	0.5 lb ae/a	16 fl oz/a		EPP15 A	0 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		2-4"W B	0 a
	D1691	4	SL	0.5 lb ae/a	16 fl oz/a		2-4"W B	0 a
7	CANOPY BLEND	58.3	SG	0.273 lb ai/a	7.5 oz/a		EPP15 A	0 a
	CINCH	7.64	SC	0.955 lb ai/a	1 pt/a		EPP15 A	0 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		EPP15 A	7 a
	D1691	4	SL	0.5 lb ae/a	16 fl oz/a		EPP15 A	0 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		2-4"W B	0 a
	CINCH	7.64	SC	0.955 lb ai/a	1 pt/a		2-4"W B	0 a
	D1691	4	SL	0.5 lb ae/a	16 fl oz/a		2-4"W B	0 a
8	TRIVENCE	61.3	WG	0.307 lb ai/a	8 oz/a		EPP15 A	0 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		EPP15 A	0 a
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP15 A	5 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		2-4"W B	0 a
	PREFIX	5.29	EC	1.32 lb ai/a	2 pt/a		2-4"W B	0 a

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)  
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.  
 Missing data estimates are included in columns: Average=11,14,12,15,17,13,16,18  
 Could not calculate LSD (% mean diff) for columns 5,8,14,7 because error mean square = 0.

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Crop Code							5-21-16	6-6-16	6-20-16	7-5-16
Rating Date							Injury	Injury	Injury	Injury
Rating Type							Percent	Percent	Percent	Percent
Rating Unit							14 DAP	42 DA-A	14 DA-B	29 DA-B
Rating Timing							26 DA-A	0 DA-B	14 DA-B	29 DA-B
Trt-Eval Interval										
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate	Other Unit	Growth Stage	Appl Code
9	VERDICT	5.57	EC	0.218	lb ai/a	5	fl oz/a		EPP15	A
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		EPP15	A
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a		EPP15	A
	MSO (MSO ULTRA)	100	SL	1	% v/v	1	% v/v		EPP15	A
	N-PAK AMS	100	SL	5	% v/v	5	% v/v		EPP15	A
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		2-4"W	B
	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a		2-4"W	B
10	NONTREATED									
LSD P=.05							.	.	12.0	.
Standard Deviation							0.0	0.0	6.8	0.0
CV							0.0	0.0	180.0	0.0
Replicate F							0.000	0.000	0.094	0.000
Replicate Prob(F)							1.0000	1.0000	0.9107	1.0000
Treatment F							0.000	0.000	1.217	0.000
Treatment Prob(F)							1.0000	1.0000	0.3571	1.0000

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Crop Code					5-21-16	6-6-16	6-20-16	7-5-16	7-19-16
Rating Date					Control	Control	Control	Control	Control
Rating Type					Percent	Percent	Percent	Percent	Percent
Rating Unit					14 DAP	42 DA-A	14 DA-B	29 DA-B	43 DA-B
Rating Timing					26 DA-A	0 DA-B	14 DA-B	29 DA-B	43 DA-B
Trt-Eval Interval									
Trt No.	Treatment Name	Form Type	Form Rate	Rate Unit	Other Rate	Other Unit	Growth Stage	Appl Code	
1	TRIVENCE	61.3 WG	0.307 lb ai/a		8 oz/a		EPP15 A		70 bc
	ROUNDUP POWERMAX	4.5 SL	0.77 lb ae/a		22 fl oz/a		EPP15 A		90 bc
	D1691	4 SL	0.5 lb ae/a		16 fl oz/a		EPP15 A		98 a
	ROUNDUP POWERMAX	4.5 SL	0.77 lb ae/a		22 fl oz/a		2-4"W B		98 a
	D1691	4 SL	0.5 lb ae/a		16 fl oz/a		2-4"W B		98 a
2	TRIVENCE	61.3 WG	0.307 lb ai/a		8 oz/a		EPP15 A		68 c
	ROUNDUP POWERMAX	4.5 SL	0.77 lb ae/a		22 fl oz/a		EPP15 A		87 c
	D1691	4 SL	0.5 lb ae/a		16 fl oz/a		EPP15 A		97 a
	ROUNDUP POWERMAX	4.5 SL	0.77 lb ae/a		22 fl oz/a		2-4"W B		97 a
	CINCH	7.64 SC	0.955 lb ai/a		1 pt/a		2-4"W B		97 a
	D1691	4 SL	0.5 lb ae/a		16 fl oz/a		2-4"W B		97 a
3	ENVIVE	41.3 WG	0.09 lb ai/a		3.5 oz/a		EPP15 A		75 abc
	ROUNDUP POWERMAX	4.5 SL	0.77 lb ae/a		22 fl oz/a		EPP15 A		98 ab
	D1691	4 SL	0.5 lb ae/a		16 fl oz/a		EPP15 A		99 a
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	D1691	4 SL	0.5 lb ae/a		16 fl oz/a		2-4"W B		99 a
5	ENVIVE	41.3 WG	0.09 lb ai/a		3.5 oz/a		EPP15 A		77 ab
	ROUNDUP POWERMAX	4.5 SL	0.77 lb ae/a		22 fl oz/a		EPP15 A		99 a
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6	CANOPY BLEND	58.3 SG	0.273 lb ai/a		7.5 oz/a		EPP15 A		72 bc
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	D1691	4 SL	0.5 lb ae/a		16 fl oz/a		EPP15 A		98 a
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	ROUNDUP POWERMAX	4.5 SL	0.77 lb ae/a		22 fl oz/a		EPP15 A		78 d
	2,4-D LV 4	3.8 EC	0.475 lb ae/a		1 pt/a		EPP15 A		85 b
	ROUNDUP POWERMAX	4.5 SL	0.77 lb ae/a		22 fl oz/a		2-4"W B		85 b
	PREFIX	5.29 EC	1.32 lb ai/a		2 pt/a		2-4"W B		85 b

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	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a		EPP15	A	99 a	
	MSO (MSO ULTRA)	100	SL	1	% v/v	1	% v/v		EPP15	A	99 a	
	N-PAK AMS	100	SL	5	% v/v	5	% v/v		EPP15	A	99 a	
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		2-4"W	B	99 a	
	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a		2-4"W	B	99 a	
10 NONTREATED							0	0	0	0	0	0
LSD P=.05							7.0	7.9	2.0	2.0	2.0	
Standard Deviation							4.0	4.5	1.2	1.2	1.2	
CV							5.46	4.89	1.21	1.21	1.21	
Replicate F							11.029	8.983	0.570	0.570	0.570	
Replicate Prob(F)							0.0010	0.0024	0.5782	0.5782	0.5782	
Treatment F							3.186	7.215	44.137	44.137	44.137	
Treatment Prob(F)							0.0232	0.0004	0.0001	0.0001	0.0001	

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)  
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.  
 Missing data estimates are included in columns: Average=11,14,12,15,17,13,16,18  
 Could not calculate LSD (% mean diff) for columns 5,8,14,7 because error mean square = 0.

## Dicamba in No-Till Two-Pass DuPont Programs for RR2X Soybeans.

Trial ID: 16-DSO-DPX-130 Location: De Soto, IL Trial Year: 2016  
Investigator: Karla L. Gage, Ph.D.

Pest Code					AMATA-HR	AMATA-HR	AMATA-HR	AMATA-HR	AMATA-HR
Crop Code					5-21-16	6-6-16	6-20-16	7-5-16	7-19-16
Rating Date					Control	Control	Control	Control	Control
Rating Type					Percent	Percent	Percent	Percent	Percent
Rating Unit					14 DAP	42 DA-A	14 DA-B	29 DA-B	43 DA-B
Rating Timing					26 DA-A	0 DA-B	14 DA-B	29 DA-B	43 DA-B
Trt-Eval Interval									
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Unit	Growth Stage	Appl Code	
1	TRIVENCE	61.3	WG	0.307 lb ai/a	8 oz/a		EPP15 A		99 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		EPP15 A		25 b
	D1691	4	SL	0.5 lb ae/a	16 fl oz/a		EPP15 A		83 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		2-4"W B		43 cd
	D1691	4	SL	0.5 lb ae/a	16 fl oz/a		2-4"W B		37 cd
2	TRIVENCE	61.3	WG	0.307 lb ai/a	8 oz/a		EPP15 A		99 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		EPP15 A		72 a
	D1691	4	SL	0.5 lb ae/a	16 fl oz/a		EPP15 A		97 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		2-4"W B		84 a
	CINCH	7.64	SC	0.955 lb ai/a	1 pt/a		2-4"W B		83 a
	D1691	4	SL	0.5 lb ae/a	16 fl oz/a		2-4"W B		83 a
3	ENVIVE	41.3	WG	0.09 lb ai/a	3.5 oz/a		EPP15 A		99 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		EPP15 A		28 b
	D1691	4	SL	0.5 lb ae/a	16 fl oz/a		EPP15 A		83 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		2-4"W B		30 d
	D1691	4	SL	0.5 lb ae/a	16 fl oz/a		2-4"W B		30 d
4	ENVIVE	41.3	WG	0.09 lb ai/a	3.5 oz/a		EPP15 A		99 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		EPP15 A		18 b
	D1691	4	SL	0.5 lb ae/a	16 fl oz/a		EPP15 A		93 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		2-4"W B		73 abc
	CINCH	7.64	SC	0.955 lb ai/a	1 pt/a		2-4"W B		75 ab
	D1691	4	SL	0.5 lb ae/a	16 fl oz/a		2-4"W B		75 ab
5	ENVIVE	41.3	WG	0.09 lb ai/a	3.5 oz/a		EPP15 A		99 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		EPP15 A		67 a
	D1691	4	SL	0.5 lb ae/a	16 fl oz/a		EPP15 A		82 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		2-4"W B		53 bcd
	PREFIX	5.29	EC	1.32 lb ai/a	2 pt/a		2-4"W B		43 bcd
6	CANOPY BLEND	58.3	SG	0.273 lb ai/a	7.5 oz/a		EPP15 A		99 a
	CINCH	7.64	SC	0.955 lb ai/a	1 pt/a		EPP15 A		0 b
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		EPP15 A		97 a
	D1691	4	SL	0.5 lb ae/a	16 fl oz/a		EPP15 A		83 ab
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		2-4"W B		82 a
	D1691	4	SL	0.5 lb ae/a	16 fl oz/a		2-4"W B		82 a
7	CANOPY BLEND	58.3	SG	0.273 lb ai/a	7.5 oz/a		EPP15 A		99 a
	CINCH	7.64	SC	0.955 lb ai/a	1 pt/a		EPP15 A		13 b
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		EPP15 A		98 a
	D1691	4	SL	0.5 lb ae/a	16 fl oz/a		EPP15 A		92 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		2-4"W B		83 a
	CINCH	7.64	SC	0.955 lb ai/a	1 pt/a		2-4"W B		83 a
	D1691	4	SL	0.5 lb ae/a	16 fl oz/a		2-4"W B		83 a
8	TRIVENCE	61.3	WG	0.307 lb ai/a	8 oz/a		EPP15 A		99 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		EPP15 A		83 a
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		EPP15 A		92 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		2-4"W B		73 abc
	PREFIX	5.29	EC	1.32 lb ai/a	2 pt/a		2-4"W B		68 abc

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Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.  
Missing data estimates are included in columns: Average=11,14,12,15,17,13,16,18  
Could not calculate LSD (% mean diff) for columns 5,8,14,7 because error mean square = 0.



Dicamba in No-Till Two-Pass DuPont Programs for RR2X Soybeans.

Trial ID: 16-DSO-DPX-130 Location: De Soto, IL Trial Year: 2016  
 Investigator: Karla L. Gage, Ph.D.

Pest Code						AMATA-HR	AMATA-HR	AMATA-HR	AMATA-HR	AMATA-HR
Crop Code										
Rating Date						5-21-16	6-6-16	6-20-16	7-5-16	7-19-16
Rating Type						Control	Control	Control	Control	Control
Rating Unit						Percent	Percent	Percent	Percent	Percent
Rating Timing						14 DAP	42 DA-A	14 DA-B	29 DA-B	43 DA-B
Trt-Eval Interval						26 DA-A	0 DA-B	14 DA-B	29 DA-B	43 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Other Unit	Growth Stage	Appl Code	
9	VERDICT	5.57	EC	0.218 lb ai/a	5 fl oz/a			EPP15 A		99 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			EPP15 A		0 b
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a			EPP15 A		53 b
	MSO (MSO ULTRA)	100	SL	1 % v/v	1 % v/v			EPP15 A		33 d
	N-PAK AMS	100	SL	5 % v/v	5 % v/v			EPP15 A		30 d
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			2-4"W B		
	PREFIX	5.29	EC	1.32 lb ai/a	2 pt/a			2-4"W B		
10 NONTREATED						0	0	0	0	0
LSD P=.05						.	36.3	16.4	30.7	34.3
Standard Deviation						0.0	21.0	9.4	17.5	19.6
CV						0.0	61.6	10.86	27.89	33.22
Replicate F						0.000	0.229	3.530	2.355	2.820
Replicate Prob(F)						1.0000	0.7978	0.0574	0.1313	0.0935
Treatment F						0.000	6.825	6.684	5.330	4.328
Treatment Prob(F)						1.0000	0.0006	0.0011	0.0033	0.0083

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.  
 Missing data estimates are included in columns: Average=11,14,12,15,17,13,16,18  
 Could not calculate LSD (% mean diff) for columns 5,8,14,7 because error mean square = 0.

Dicamba in No-Till Two-Pass DuPont Programs for RR2X Soybeans.

Trial ID: 16-DSO-DPX-130      Location: De Soto, IL      Trial Year: 2016  
Investigator: Karla L. Gage, Ph.D.

## Trial Comments

1. Protocol: DuPont (USA-16-130).
2. Ratings:  
CI 14 DAP; Prior to application B; and 14, and 28 DA-B.  
WC 14 DAP; Prior to application B; and 14, 28, and 42 DA-B.  
If planting is delayed, rate WC at 28 DA-A.
3. Yield not requested, do not sell grain.
4. Target marestail and waterhemp, but rate all weeds.
5. Photos not requested.
6. Rainfall following the EPP15 application was 1.59 inch over 6 days beginning 32 hours later, and a total of 8.97 inch over the 41 days between application A and the 0 DA-B rating.  
Rainfall following the 2-4"W application B was 0.36 inch over 1 day beginning 12 hours later, and then only 0.21 inch 9 days later and only 0.36 inch 19 days later.
7. Crop injury ratings were confounded by heavy rainfall following planting (some plots had standing water while others did not), deer feeding, and competition from weeds where AMATA was not controlled.  
At 14 DA-B crop injury was stunting.
8. Missing data for plots 302 and 303 starting at 14 DA-B was due to an application error, bottle for plot 303 was sprayed on 302 in addition to the bottle for 302 resulting in 30% crop injury and good weed control, data not presented.
9. ERICA-HR = Herbicide-resistant marestail (glyphosate).  
AMATA-HR = Herbicide-resistant waterhemp (glyphosate).
10. ERICA-HR control is burndown, there was no new emergence of ERICA-HR in the nontreated areas.  
AMATA-HR control at 14 DAP is burndown of very small AMATA-HR at application A.  
AMATA-HR control at 0 DA-B is residual control.
11. Not harvested.