

Solstice Product Understanding.

Trial ID: 15-1-MME40 Location: Belleville Res. Center Trial Year: 2015
Investigator: Ronald F. Krausz

Trial Status: F one-year/final
Initiation Date: 5-5-15
Completion Date: 10-7-15

Trial Location

City: Belleville **Country:** USA
State/Prov.: Illinois IL
Postal Code: 62221

Objectives:

Evaluate Solstice tank-mix concepts for control of grass and broadleaf weeds.

Contacts

Study Director: Ronald F. Krausz **Title:** Researcher/Farm Manager
Organization: Belleville Research Center - Southern Illinois Univ Carbondale
Address: 2036 Charles Lane **Phone No.:** 618-566-4761
City+State/Prov: Belleville, IL
Postal Code: 62221 **E-mail:** rkrausz@siu.edu
Country: USA

Crop Description

Crop 1: ZEAMD Zea mays indentata Dent corn
Variety: DKC 63-33 **BBCH Scale:** BCOR
Description: SS RIB
Planting Rate, Unit: 30000 S/A **Planting Date:** 5-5-15
Depth, Unit: 1.5 IN **Planting Method:** SEEDED
Row Spacing, Unit: 30 IN
Soil Temperature, Unit: 62 F
Soil Moisture: NORMAL

Pest Description

Pest 1 Type: W **Code:** PANDI Panicum dichotomiflorum Michx.
Common Name: panicum, fall
Pest 2 Type: W **Code:** AMBTR Ambrosia trifida L.
Common Name: ragweed, giant
Pest 3 Type: W **Code:** ABUTH Abutilon theophrasti Medik.
Common Name: velvetleaf
Pest 4 Type: W **Code:** AMATA Amaranthus rudis Sauer
Common Name: waterhemp, common

Site and Design

Treated Plot Width: 7.5 FT **Total Plot Width:** 10 FT **Site Type:** FIELD
Treated Plot Length: 27 FT **Total Plot Length:** 27 FT **Experimental Unit:** 1 PLOT
Tillage Type: REDTIL reduced-till
Replications: 4 **Study Design:** RACOB� Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

No.	Previous Crop	Year
1.	ZEAMD	2014

Maintenance

No.	Maintenance Product Name
1.	N 150 LB/A, P2O5 50 LB/A, K2O 150 LB/A

Soil Description

Description Name: 01_2013
% OM: 2.5 **Texture:** SIL silt loam
pH: 6 **Soil Name:** Winfield
CEC: 6

Additional Measured Elements

Element	Quantity	Unit
P1	58	lb/A
K	286	lb/A

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Moisture and Weather Conditions
Overall Moisture Conditions: ABONOR
Closest Weather Station: ICN - Belleville IL **Distance, Unit: 0.5 MI**

No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	4-1-15					7	DAY	33	76	F
2.	4-2-15	0.84	IN	RAIN	rain	2	DAY			
3.	4-6-15	0.95	IN	RAIN	rain	4	DAY			
4.	4-8-15					7	DAY	43	78	F
5.	4-13-15	1.02	IN	RAIN	rain	1	DAY			
6.	4-15-15					7	DAY	42	79	F
7.	4-19-15	0.42	IN	RAIN	rain	1	DAY			
8.	4-22-15					7	DAY	36	77	F
9.	4-25-15	0.35	IN	RAIN	rain	1	DAY			
10.	4-29-15					7	DAY	36	84	F
11.	5-6-15					7	DAY	49	85	F
12.	5-8-15	4.09	IN	RAIN	rain	4	DAY			
13.	5-13-15					7	DAY	45	83	F
14.	5-14-15	0.33	IN	RAIN	rain	4	DAY			
15.	5-20-15					7	DAY	44	85	F
16.	5-20-15	0.16	IN	RAIN	rain	1	DAY			
17.	5-24-15	0.89	IN	RAIN	rain	1	DAY			
18.	5-26-15	0.59	IN	RAIN	rain	2	DAY			
19.	5-27-15					7	DAY	55	84	F
20.	5-29-15	2.15	IN	RAIN	rain	2	DAY			
21.	6-3-15					7	DAY	53	89	F
22.	6-5-15	0.17	IN	RAIN	rain	1	DAY			
23.	6-8-15	0.66	IN	RAIN	rain	1	DAY			
24.	6-10-15					7	DAY	64	91	F
25.	6-14-15	0.16	IN	RAIN	rain	1	DAY			
26.	6-15-15	0.11	IN	RAIN	rain	1	DAY			
27.	6-16-15	2.25	IN	RAIN	rain	1	DAY			
28.	6-17-15					7	DAY	69	91	F
29.	6-17-15	0.09	IN	RAIN	rain	1	DAY			
30.	6-18-15	0.14	IN	RAIN	rain	1	DAY			
31.	6-19-15	3.29	IN	RAIN	rain	1	DAY			
32.	6-20-15	0.2	IN	RAIN	rain	2	DAY			
33.	6-24-15					7	DAY	62	93	F
34.	6-25-15	1.66	IN	RAIN	rain	2	DAY			
35.	6-28-15	0.6	IN	RAIN	rain	2	DAY			
36.	7-1-15					7	DAY	63	88	F
37.	7-1-15	0.64	IN	RAIN	rain	2	DAY			
38.	7-7-15	1.33	IN	RAIN	rain	2	DAY			
39.	7-8-15					7	DAY	59	97	F
40.	7-10-15	0.26	IN	RAIN	rain	1	DAY			
41.	7-15-15					7	DAY	69	93	F
42.	7-19-15	0.35	IN	RAIN	rain	2	DAY			
43.	7-22-15					7	DAY	65	95	F
44.	7-26-15	1.21	IN	RAIN	rain	3	DAY			
45.	7-29-15					7	DAY	65	93	F
46.	8-5-15					7	DAY	64	88	F
47.	8-5-15	2.25	IN	RAIN	rain	1	DAY			
48.	8-9-15	0.47	IN	RAIN	rain	1	DAY			
49.	8-12-15					7	DAY	63	89	F
50.	8-18-15	2.23	IN	RAIN	rain	2	DAY			
51.	8-19-15					7	DAY	52	82	F
52.	8-22-15	0.18	IN	RAIN	rain	1	DAY			

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53.	8-26-15					7	DAY	54	91	F
54.	9-2-15					7	DAY	68	94	F
55.	9-8-15	1.93	IN	RAIN	rain	2	DAY			
56.	9-9-15					7	DAY	47	83	F
57.	9-11-15	0.4	IN	RAIN	rain	1	DAY			
58.	9-16-15					7	DAY	51	90	F
59.	9-19-15	0.14	IN	RAIN	rain	1	DAY			
60.	9-23-15					7	DAY	54	85	F
61.	9-28-15	0.13	IN	RAIN	rain	1	DAY			

Application Description

	A
Application Date:	5-29-15
Appl. Start Time:	10:00
Appl. Stop Time:	10:30
Application Method:	Spray
Application Timing:	5"W
Application Placement:	BROFOL
Applied By:	RFK
Air Temperature, Unit:	79 F
% Relative Humidity:	79
Wind Velocity, Unit:	1 MPH
Wind Direction:	S
Dew Presence (Y/N):	Y
Soil Temperature, Unit:	70 F
Soil Moisture:	ABONOR
% Cloud Cover:	90
Next Moisture Occurred On:	5-29-15
Time to Next Moisture, Unit:	4 HR

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	ZEAMD
Stage Scale Used:	DESC
Stage Majority, Percent:	V4
Stage Minimum, Percent:	V4
Stage Maximum, Percent:	V4
Height, Unit:	12 IN
Height Minimum, Maximum:	8 12

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Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale:	PANDI W
Stage Majority, Percent:	3
Stage Minimum, Percent:	1
Stage Maximum, Percent:	3
Height, Unit:	2 IN
Height Minimum, Maximum:	1 4
Density, Unit:	1 FT2
Pest 2 Code, Type, Scale:	AMBTR W
Stage Majority, Percent:	8
Stage Minimum, Percent:	2
Stage Maximum, Percent:	10
Height, Unit:	5 IN
Height Minimum, Maximum:	2 6
Density, Unit:	3 FT2
Pest 3 Code, Type, Scale:	ABUTH W
Stage Majority, Percent:	4
Stage Minimum, Percent:	2
Stage Maximum, Percent:	6
Height, Unit:	2 IN
Height Minimum, Maximum:	1 4
Density, Unit:	1 FT2
Pest 4 Code, Type, Scale:	AMATA W
Stage Majority, Percent:	8
Stage Minimum, Percent:	4
Stage Maximum, Percent:	8
Height, Unit:	2 IN
Height Minimum, Maximum:	1 4
Density, Unit:	2 FT2

Application Equipment

	A
Appl. Equipment:	CO2 sprayer
Equipment Type:	BACSPR
Operation Pressure, Unit:	30 PSI
Nozzle Type:	XR
Nozzle Size:	8002
Boom Length, Unit:	7.5 FT
Spray Volume, Unit:	15 GPA

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Pest Code								ZEAMD	ZEAMD	ZEAMD	ZEAMD	ZEAMD		
Crop Code								10-7-15	10-7-15	10-7-15	6-3-15	6-3-15		
Rating Date								Moisture	Test wt.	Yield	Speckling	Chlorosis		
Rating Type								Percent	lb/bu	bu/A	Percent	Percent		
Rating Unit											5 DA-A	5 DA-A		
Rating Timing														
Trt-Eval Interval														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	SOLSTICE	4	SC	0.094	lb ai/a	3 fl oz/a	5"W	A		17.6 a	56.8 a	184 a	13 a	0 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22 fl oz/a	5"W	A						
	COC (PRIME OIL)	100	SL	1	% v/v	1 % v/v	5"W	A						
	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v	5"W	A						
2	IMPACT	2.8	SC	0.0164	lb ai/a	0.75 fl oz/a	5"W	A		17.0 a	57.1 a	141 d	0 b	0 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22 fl oz/a	5"W	A						
	COC (PRIME OIL)	100	SL	1	% v/v	1 % v/v	5"W	A						
	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v	5"W	A						
3	STATUS	56	WG	0.105	lb ae/a	3 oz/a	5"W	A		17.3 a	56.9 a	151 cd	0 b	0 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22 fl oz/a	5"W	A						
	COC (PRIME OIL)	100	SL	1	% v/v	1 % v/v	5"W	A						
	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v	5"W	A						
4	DIFLEXX	4	SC	0.375	lb ae/a	12 fl oz/a	5"W	A		17.6 a	56.8 a	178 ab	11 a	0 a
	SOLSTICE	4	SC	0.094	lb ai/a	3 fl oz/a	5"W	A						
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22 fl oz/a	5"W	A						
	COC (PRIME OIL)	100	SL	1	% v/v	1 % v/v	5"W	A						
	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v	5"W	A						
5	SOLSTICE	4	SC	0.078	lb ai/a	2.5 fl oz/a	5"W	A		17.3 a	56.9 a	170 abc	11 a	0 a
	AATREX 4L	4	SC	0.5	lb ai/a	16 fl oz/a	5"W	A						
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22 fl oz/a	5"W	A						
	COC (PRIME OIL)	100	SL	1	% v/v	1 % v/v	5"W	A						
	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v	5"W	A						
6	ANTHEM MAXX	4.3	SC	0.0756	lb ai/a	2.25 fl oz/a	5"W	A		17.2 a	57.0 a	175 ab	11 a	0 a
	AATREX 4L	4	SC	0.5	lb ai/a	16 fl oz/a	5"W	A						
	SOLSTICE	4	SC	0.078	lb ai/a	2.5 fl oz/a	5"W	A						
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22 fl oz/a	5"W	A						
	COC (PRIME OIL)	100	SL	1	% v/v	1 % v/v	5"W	A						
	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v	5"W	A						
7	HALEX GT	4.389	CS	1.98	lb ai/a	3.6 pt/a	5"W	A		17.3 a	57.0 a	161 bcd	0 b	0 a
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25 % v/v	5"W	A						
	N-PAK AMS	100	SL	2.5	% v/v	2.5 % v/v	5"W	A						
8	NONTREATED											11 e	0	0
LSD P=.05								0.64	0.28	21.3		3.5		
Standard Deviation								0.42	0.19	14.3		2.4	0.0	
CV								2.42	0.33	9.75		35.67	0.0	
Replicate F								2.719	4.512	3.093		1.875	0.000	
Replicate Prob(F)								0.0842	0.0205	0.0548		0.1700	1.0000	
Treatment F								1.074	1.199	63.188		27.643	0.000	
Treatment Prob(F)								0.4231	0.3622	0.0001		0.0001	1.0000	

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.
 Missing data estimates are included in columns: Average=6,7,9
 Could not calculate LSD (% mean diff) for columns 11,12,13,18,23,28,16,17,22,27 because error mean square = 0.

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	ZEAMD 6-3-15 Stunt Percent	ZEAMD 6-13-15 Injury Percent	ZEAMD 6-28-15 Injury Percent	ZEAMD 7-28-15 Injury Percent	ZEAMD 8-27-15 Injury Percent	
							5 DA-A	15 DA-A	30 DA-A	60 DA-A	90 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	SOLSTICE	4	SC	0.094	lb ai/a	3	fl oz/a	5"W	A	0 a	0 a	0 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A			
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A			
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A			
2	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	5"W	A	0 a	0 a	0 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A			
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A			
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A			
3	STATUS	56	WG	0.105	lb ae/a	3	oz/a	5"W	A	0 a	0 a	0 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A			
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A			
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A			
4	DIFLEXX	4	SC	0.375	lb ae/a	12	fl oz/a	5"W	A	0 a	0 a	0 a
	SOLSTICE	4	SC	0.094	lb ai/a	3	fl oz/a	5"W	A			
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A			
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A			
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A			
5	SOLSTICE	4	SC	0.078	lb ai/a	2.5	fl oz/a	5"W	A	0 a	0 a	0 a
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	5"W	A			
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A			
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A			
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A			
6	ANTHEM MAXX	4.3	SC	0.0756	lb ai/a	2.25	fl oz/a	5"W	A	0 a	0 a	0 a
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	5"W	A			
	SOLSTICE	4	SC	0.078	lb ai/a	2.5	fl oz/a	5"W	A			
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A			
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A			
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A			
7	HALEX GT	4.389	CS	1.98	lb ai/a	3.6	pt/a	5"W	A	0 a	0 a	0 a
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	5"W	A			
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A			
8	NONTREATED									0	0	0
LSD P=.05										0.0	0.0	0.0
Standard Deviation										0.0	0.0	0.0
CV										0.0	0.0	0.0
Replicate F										0.000	0.000	0.000
Replicate Prob(F)										1.0000	1.0000	1.0000
Treatment F										0.000	0.000	0.000
Treatment Prob(F)										1.0000	1.0000	1.0000

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Pest Code								PANDI	PANDI	PANDI	PANDI		
Crop Code								6-13-15	6-28-15	7-28-15	8-27-15		
Rating Date								Control	Control	Control	Control		
Rating Type								Percent	Percent	Percent	Percent		
Rating Unit								15 DA-A	30 DA-A	60 DA-A	90 DA-A		
Rating Timing													
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Stage	Appl Code				
1	SOLSTICE	4	SC	0.094	lb ai/a	3	fl oz/a	5"W	A	95 abc	91 ab	91 ab	91 ab
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A				
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A				
2	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	5"W	A	99 a	96 a	95 a	95 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A				
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A				
3	STATUS	56	WG	0.105	lb ae/a	3	oz/a	5"W	A	99 ab	96 a	96 a	96 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A				
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A				
4	DIFLEXX	4	SC	0.375	lb ae/a	12	fl oz/a	5"W	A	95 bc	92 ab	91 ab	91 ab
	SOLSTICE	4	SC	0.094	lb ai/a	3	fl oz/a	5"W	A				
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A				
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A				
5	SOLSTICE	4	SC	0.078	lb ai/a	2.5	fl oz/a	5"W	A	89 d	79 c	79 c	79 c
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	5"W	A				
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A				
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A				
6	ANTHEM MAXX	4.3	SC	0.0756	lb ai/a	2.25	fl oz/a	5"W	A	91 cd	85 bc	85 bc	85 bc
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	5"W	A				
	SOLSTICE	4	SC	0.078	lb ai/a	2.5	fl oz/a	5"W	A				
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A				
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A				
7	HALEX GT	4.389	CS	1.98	lb ai/a	3.6	pt/a	5"W	A	98 ab	98 a	98 a	98 a
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	5"W	A				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A				
8	NONTREATED									0	0	0	0
LSD P=.05								4.5	7.0	6.7	6.7		
Standard Deviation								3.0	4.7	4.5	4.5		
CV								3.18	5.16	5.0	5.0		
Replicate F								2.087	1.277	1.775	1.775		
Replicate Prob(F)								0.1378	0.3123	0.1879	0.1879		
Treatment F								6.671	8.388	8.583	8.583		
Treatment Prob(F)								0.0008	0.0002	0.0002	0.0002		

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Pest Code							AMBTR	AMBTR	AMBTR	AMBTR			
Crop Code							6-13-15	6-28-15	7-28-15	8-27-15			
Rating Date							Control	Control	Control	Control			
Rating Type							Percent	Percent	Percent	Percent			
Rating Unit							15 DA-A	30 DA-A	60 DA-A	90 DA-A			
Rating Timing													
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	SOLSTICE	4	SC	0.094	lb ai/a	3	fl oz/a	5"W	A	99 a	98 a	98 a	98 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A				
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A				
2	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	5"W	A	92 b	92 a	92 a	92 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A				
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A				
3	STATUS	56	WG	0.105	lb ae/a	3	oz/a	5"W	A	96 a	95 a	95 a	94 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A				
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A				
4	DIFLEXX	4	SC	0.375	lb ae/a	12	fl oz/a	5"W	A	99 a	97 a	97 a	97 a
	SOLSTICE	4	SC	0.094	lb ai/a	3	fl oz/a	5"W	A				
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A				
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A				
5	SOLSTICE	4	SC	0.078	lb ai/a	2.5	fl oz/a	5"W	A	99 a	96 a	96 a	96 a
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	5"W	A				
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A				
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A				
6	ANTHEM MAXX	4.3	SC	0.0756	lb ai/a	2.25	fl oz/a	5"W	A	99 a	96 a	96 a	96 a
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	5"W	A				
	SOLSTICE	4	SC	0.078	lb ai/a	2.5	fl oz/a	5"W	A				
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A				
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A				
7	HALEX GT	4.389	CS	1.98	lb ai/a	3.6	pt/a	5"W	A	98 a	94 a	94 a	93 a
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	5"W	A				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A				
8	NONTREATED									0	0	0	0
LSD P=.05							3.6	5.0	5.0	5.5			
Standard Deviation							2.4	3.4	3.4	3.7			
CV							2.46	3.52	3.52	3.91			
Replicate F							1.198	10.762	10.762	8.282			
Replicate Prob(F)							0.3388	0.0003	0.0003	0.0011			
Treatment F							4.481	1.409	1.409	1.477			
Treatment Prob(F)							0.0060	0.2650	0.2650	0.2415			

Solstice Product Understanding.

Trial ID: 15-1-MME40 Location: Belleville Res. Center Trial Year: 2015
 Investigator: Ronald F. Krausz

Pest Code						ABUTH	ABUTH	ABUTH	ABUTH
Crop Code						6-13-15	6-28-15	7-28-15	8-27-15
Rating Date						Control	Control	Control	Control
Rating Type						Percent	Percent	Percent	Percent
Rating Unit									
Rating Timing									
Trt-Eval Interval						15 DA-A	30 DA-A	60 DA-A	90 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
1	SOLSTICE	4	SC	0.094	lb ai/a	3	fl oz/a	5"W	A
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A
2	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	5"W	A
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A
3	STATUS	56	WG	0.105	lb ae/a	3	oz/a	5"W	A
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A
4	DIFLEXX	4	SC	0.375	lb ae/a	12	fl oz/a	5"W	A
	SOLSTICE	4	SC	0.094	lb ai/a	3	fl oz/a	5"W	A
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A
5	SOLSTICE	4	SC	0.078	lb ai/a	2.5	fl oz/a	5"W	A
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	5"W	A
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A
6	ANTHEM MAXX	4.3	SC	0.0756	lb ai/a	2.25	fl oz/a	5"W	A
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	5"W	A
	SOLSTICE	4	SC	0.078	lb ai/a	2.5	fl oz/a	5"W	A
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A
7	HALEX GT	4.389	CS	1.98	lb ai/a	3.6	pt/a	5"W	A
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	5"W	A
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A
8	NONTREATED								
LSD P=.05							0.3	0.3	0.3
Standard Deviation							0.2	0.2	0.2
CV							0.19	0.19	0.19
Replicate F							1.000	1.000	1.000
Replicate Prob(F)							0.4155	0.4155	0.4155
Treatment F							1.000	1.000	1.000
Treatment Prob(F)							0.4552	0.4552	0.4552

Solstice Product Understanding.

Trial ID: 15-1-MME40 Location: Belleville Res. Center Trial Year: 2015
 Investigator: Ronald F. Krausz

Pest Code							AMATA	AMATA	AMATA	AMATA				
Crop Code							6-13-15	6-28-15	7-28-15	8-27-15				
Rating Date							Control	Control	Control	Control				
Rating Type							Percent	Percent	Percent	Percent				
Rating Unit							15 DA-A	30 DA-A	60 DA-A	90 DA-A				
Rating Timing														
Trt-Eval Interval														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	SOLSTICE	4	SC	0.094	lb ai/a	3	fl oz/a	5"W	A	99 a	99 a	99 a	99 a	
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A					
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A					
2	IMPACT	2.8	SC	0.0164	lb ai/a	0.75	fl oz/a	5"W	A	99 a	99 a	99 a	99 a	
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A					
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A					
3	STATUS	56	WG	0.105	lb ae/a	3	oz/a	5"W	A	99 a	99 a	99 a	99 a	
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A					
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A					
4	DIFLEXX	4	SC	0.375	lb ae/a	12	fl oz/a	5"W	A	99 a	99 a	99 a	99 a	
	SOLSTICE	4	SC	0.094	lb ai/a	3	fl oz/a	5"W	A					
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A					
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A					
5	SOLSTICE	4	SC	0.078	lb ai/a	2.5	fl oz/a	5"W	A	99 a	99 a	99 a	99 a	
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	5"W	A					
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A					
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A					
6	ANTHEM MAXX	4.3	SC	0.0756	lb ai/a	2.25	fl oz/a	5"W	A	99 a	99 a	99 a	99 a	
	AATREX 4L	4	SC	0.5	lb ai/a	16	fl oz/a	5"W	A					
	SOLSTICE	4	SC	0.078	lb ai/a	2.5	fl oz/a	5"W	A					
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	5"W	A					
	COC (PRIME OIL)	100	SL	1	% v/v	1	% v/v	5"W	A					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A					
7	HALEX GT	4.389	CS	1.98	lb ai/a	3.6	pt/a	5"W	A	99 a	99 a	99 a	99 a	
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	5"W	A					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	5"W	A					
8	NONTREATED									0	0	0	0	
LSD P=.05							.	.	.				0.5	
Standard Deviation							0.0	0.0	0.0					0.3
CV							0.0	0.0	0.0					0.32
Replicate F							0.000	0.000	0.000					1.269
Replicate Prob(F)							1.0000	1.0000	1.0000					0.3148
Treatment F							0.000	0.000	0.000					0.692
Treatment Prob(F)							1.0000	1.0000	1.0000					0.6589

Solstice Product Understanding.

Trial ID: 15-1-MME40 Location: Belleville Res. Center Trial Year: 2015
Investigator: Ronald F. Krausz

Trial Comments

1. Protocol: FMC (Solstice Product).
2. Ratings:
 CI at 5, and 15 DA-A.
 WC at 15, 30, 60, and 90 DA-A.
3. Yield.
4. Photos.
5. Application A (5"W), apply in heavy dew, record exact amount of dewiness.
 Dew was present and heavy at application with 90% cloud cover, 79% relative humidity,
 and drizzle prior to application.
6. Rainfall following the 5"W application was 2.15 inch over 2 days beginning 4 hours later.
7. Harvested 10-7-15, (2) 30 inch rows by 24 ft.