

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 30 FT
Treated Plot Area: 300 FT2
Replications: 4

Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: CONTIL conventional-till
Study Design: RACOB� Randomized Complete Block (RCB)

No. Previous Crop Year

1. Soybean 2014

Soil Description

Description Name: Big E
% OM: 2.8 Texture: SIL silt loam
pH: 5.9 Soil Name: Kokomo
CEC: 17.44 Fert. Level: G good
Soil Drainage: G good

Additional Measured Elements

Date Element Quantity Unit
4-24-2015 NH3 180 LBS

Application Description

	A	B	C
Application Date:	5-4-2015	5-15-2015	6-3-2015
Appl. Start Time:	11:00 AM	9:30 AM	9:15 AM
Appl. Stop Time:	11:20 AM	10:00 AM	9:30 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EPO	MPOST
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	Ackley	Ackley	Bethel
Air Temperature, Unit:	73 F	66 F	60 F
% Relative Humidity:	45	73	85
Wind Velocity, Unit:	10 MPH	6 MPH	4 MPH
Wind Direction:	SW	E	NNE
Dew Presence (Y/N):	N no	N no	Y yes
Soil Temperature, Unit:	58 F	60 F	59 F
Soil Moisture:	DRY	NORMAL	WET
% Cloud Cover:	40	60	100
Next Moisture Occurred On:	5-5-2015	5-16-2015	6-5-2015
Time to Next Moisture, Unit:	14 HR	1 DAY	2 DAY

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH	BBCH
Stage Majority, Percent:		12 100	15
Height, Unit:		3 IN	15 IN

Pest Stage At Each Application

	A		B		C	
Pest 1 Code, Type, Scale:	SETFA	W	SETFA	W	SETFA	W
Stage Majority, Percent:			12	100	12	90
Stage Minimum, Percent:					12	90
Stage Maximum, Percent:					13	10
Height, Unit:			0.5	IN	3	IN
Height Minimum, Maximum:			0.25	0.5	2	5
Density, Unit:			125	M2	2	M2
Pest 2 Code, Type, Scale:	AMBTR	W	AMBTR	W	AMBTR	W
Stage Majority, Percent:			09	90	16	90
Stage Minimum, Percent:			09	90	14	10
Stage Maximum, Percent:			10	10	16	90
Diameter, Unit:			1	IN		
Height, Unit:			2	IN	4	IN
Height Minimum, Maximum:			1	2	3	4
Density, Unit:			50	M2	2	M2
Pest 3 Code, Type, Scale:	ABUTH	W	ABUTH	W	ABUTH	W
Stage Majority, Percent:			09	100	13	80
Stage Minimum, Percent:					13	80
Stage Maximum, Percent:					14	20
Height, Unit:			0.25	IN	2	IN
Height Minimum, Maximum:			0.25	0.5	1	2
Density, Unit:			10	M2	3	M2
Pest 4 Code, Type, Scale:	CHEAL	W	CHEAL	W	CHEAL	W
Stage Majority, Percent:			12	90	14	60
Stage Minimum, Percent:			10	10	14	60
Stage Maximum, Percent:			12	90	16	40
Diameter, Unit:			0.5	IN		
Height, Unit:			0.5	IN	1	IN
Height Minimum, Maximum:			0.25	0.5	0.5	1
Density, Unit:			6	M2	2	M2
Pest 5 Code, Type, Scale:	AMARE	W	AMARE	W	AMARE	W
Stage Majority, Percent:			11	90		
Stage Minimum, Percent:			09	10		
Stage Maximum, Percent:			11	90		
Diameter, Unit:			0.25	IN		
Height, Unit:			0.25	IN		
Height Minimum, Maximum:			0.25	0.33		
Density, Unit:			4	M2		
Pest 6 Code, Type, Scale:	IPOHE	W	IPOHE	W	IPOHE	W
Stage Majority, Percent:					10	100
Height, Unit:					0.5	IN
Height Minimum, Maximum:					0.25	0.5
Density, Unit:					1	M2
Pest 7 Code, Type, Scale:	SIDSP	W	SIDSP	W	SIDSP	W
Stage Majority, Percent:					10	90
Stage Minimum, Percent:					10	90
Stage Maximum, Percent:					11	10
Height, Unit:					0.5	IN
Height Minimum, Maximum:					0.5	0.5
Density, Unit:					1	M2
Pest 8 Code, Type, Scale:	HIBTR	W	HIBTR	W	HIBTR	W
Stage Majority, Percent:					12	100
Stage Minimum, Percent:					12	100
Stage Maximum, Percent:					100	
Height, Unit:					2	IN
Height Minimum, Maximum:					0.5	2
Density, Unit:					3	M2

Application Equipment

	A	B	C
Appl. Equipment:	6 FOOT BOOM	10' AI XR	10' AI XR
Equipment Type:	SPRBAC	SPRBAC	SPRBAC
Operation Pressure, Unit:	46 PSI	46 PSI	46 PSI
Nozzle Type:	AI XR	AI XR	AI XR
Nozzle Size:	110015	110015	110015
Nozzle Spacing, Unit:	18 IN	18 IN	18 IN
Boom Length, Unit:	6.67 FT	10 FT	10 FT
Boom Height, Unit:	20 IN	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA
Mix Size, Unit:	2 Liters	3 Liters	2 Liters
Propellant:	CO2	CO2	CO2

2015/CORN/SOLSTICE/ANTHEM/FMC PROGRAMS/OHIO STATE/

Trial ID: 15FMCCORN Location: Western Branch Big E Trial Year: 2015
 Protocol ID: PYRX.COR.15.JPR.05 Investigator: Dr. Mark M. Loux
 Project ID: Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, FMC

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	Appl Description	31	32	33	34
1	ANTHEM MAXX	4 oz/a		A	PRE	48.4 a	18.2 a	243.0 a	57.1 a
1	AATREX	64 oz/a		A	PRE				
1	ROUNDUP POWERMAX	32 oz/a		C	MPOST				
1	N PAK AMS	2.5 % v/v		C	MPOST				
2	ANTHEM MAXX	2.25 oz/a		A	PRE	45.9 a-d	18.3 a	229.9 abc	58.2 a
2	AATREX	32 oz/a		A	PRE				
2	SOLSTICE	2.5 oz/a		C	MPOST				
2	AATREX	32 oz/a		C	MPOST				
2	COC	1 % v/v		C	MPOST				
2	ROUNDUP POWERMAX	32 oz/a		C	MPOST				
2	N PAK AMS	2.5 % v/v		C	MPOST				
3	ANTHEM MAXX	2.25 oz/a		A	PRE	43.1 d	18.5 a	215.5 c	57.5 a
3	AATREX	32 oz/a		A	PRE				
3	SOLSTICE	2.5 oz/a		C	MPOST				
3	SENCOR	2 oz/a		C	MPOST				
3	ROUNDUP POWERMAX	32 oz/a		C	MPOST				
3	N PAK AMS	2.5 % v/v		C	MPOST				
4	ANTHEM MAXX	2.25 oz/a		A	PRE	44.8 bcd	18.5 a	224.0 bc	57.6 a
4	AATREX	32 oz/a		A	PRE				
4	SOLSTICE	2.5 oz/a		B	EPOST				
4	AATREX	32 oz/a		B	EPOST				
4	COC	1 % v/v		B	EPOST				
4	ROUNDUP POWERMAX	32 oz/a		B	EPOST				
4	N PAK AMS	2.5 % v/v		B	EPOST				
5	ANTHEM MAXX	2.25 oz/a		A	PRE	44.1 d	18.8 a	219.4 c	57.2 a
5	AATREX	32 oz/a		A	PRE				
5	SOLSTICE	2.5 oz/a		B	EPOST				
5	SENCOR	2 oz/a		B	EPOST				
5	COC	1 % v/v		B	EPOST				
5	ROUNDUP POWERMAX	32 oz/a		B	EPOST				
5	N PAK AMS	2.5 % v/v		B	EPOST				

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.

Pest Type									
Pest Code									
Pest Scientific Name									
Pest Name									
Crop Code									
BBCH Scale									
Crop Scientific Name									
Crop Name									
Rating Date									
Rating Type									
Rating Unit									
Sample Size, Unit									
Number of Subsamples									
Rating Timing									
Days After First/Last Applic.									
Trt-Eval Interval									
Plant-Eval Interval									
Days After Emergence									
ARM Action Codes									
Number of Decimals									

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	Appl Description	31	32	33	34
6	ANTHEM MAXX	2.25 oz/a		B	EPOST	45.7 a-d	18.3 a	229.2 abc	57.5 a
6	SOLSTICE	2.5 oz/a		B	EPOST				
6	AATREX	32 oz/a		B	EPOST				
6	COC	1 % v/v		B	EPOST				
6	ROUNDUP POWERMAX	32 oz/a		B	EPOST				
6	N PAK AMS	2.5 % v/v		B	EPOST				
7	ANTHEM MAXX	2.25 oz/a		B	EPOST	43.8 d	18.7 a	218.2 c	58.0 a
7	SOLSTICE	2.5 oz/a		B	EPOST				
7	SENCOR	2 oz/a		B	EPOST				
7	ROUNDUP POWERMAX	32 oz/a		B	EPOST				
7	N PAK AMS	2.5 % v/v		B	EPOST				
8	SOLSTICE	3 oz/a		B	EPOST	44.7 cd	18.7 a	223.0 bc	57.7 a
8	AATREX	32 oz/a		B	EPOST				
8	COC	1 % v/v		B	EPOST				
8	ROUNDUP POWERMAX	32 oz/a		B	EPOST				
8	N PAK AMS	2.5 % v/v		B	EPOST				
9	SOLSTICE	2.5 oz/a		B	EPOST	39.2 e	18.7 a	195.6 d	57.6 a
9	SENCOR	2 oz/a		B	EPOST				
9	ROUNDUP POWERMAX	32 oz/a		B	EPOST				
9	N PAK AMS	2.5 % v/v		B	EPOST				
10	CORVUS	5.6 oz/a		B	EPOST	45.9 a-d	18.6 a	229.5 abc	57.6 a
10	AATREX	32 oz/a		B	EPOST				
10	ROUNDUP POWERMAX	32 oz/a		B	EPOST				
10	N PAK AMS	2.5 % v/v		B	EPOST				
11	LEXAR	48 oz/a		B	EPOST	48.1 ab	18.4 a	240.7 a	57.9 a
11	AATREX	32 oz/a		B	EPOST				
11	ROUNDUP POWERMAX	32 oz/a		C	MPOST				
11	N PAK AMS	2.5 % v/v		C	MPOST				

Pest Type							
Pest Code							
Pest Scientific Name							
Pest Name							
Crop Code		ZEAMX	ZEAMX	ZEAMX	ZEAMX		
BBCH Scale		BCOR	BCOR	BCOR	BCOR		
Crop Scientific Name		Zea mays	Zea mays	Zea mays	Zea mays		
Crop Name		Corn	Corn	Corn	Corn		
Rating Date		10-1-2015	10-1-2015	10-1-2015	10-1-2015		
Rating Type		YIELD	MOICON	YIELD	WEITES		
Rating Unit		LBS	%	BU	LBS		
Sample Size, Unit	1	PLOT		1	A		
Number of Subsamples		1	1	1	1		
Rating Timing							
Days After First/Last Applic.		150	120	150	120	150	120
Trt-Eval Interval							
Plant-Eval Interval		151 DP-1	151 DP-1	151 DP-1	151 DP-1		
Days After Emergence		145 DE-1	145 DE-1	145 DE-1	145 DE-1		
ARM Action Codes				TY1			
Number of Decimals		1	1	1	1		

Trt Treatment No. Name	Other Rate	Other Rate	Unit	Appl Code	Appl Description	31	32	33	34
12 SURESTART	48 oz/a			A	PRE	47.5 abc	18.6 a	237.2 ab	57.9 a
12 ROUNDUP POWERMAX	32 oz/a			C	MPOST				
12 N PAK AMS	2.5 % v/v			C	MPOST				
LSD P=.05						3.39	1.11	15.58	0.74
Standard Deviation						2.35	0.77	10.83	0.52
CV						5.22	4.18	4.8	0.9
Grand Mean						45.10	18.53	225.44	57.65
Bartlett's X2						14.785	15.42	14.762	13.06
P(Bartlett's X2)						0.193	0.164	0.194	0.289
Skewness						-0.8858*	-0.3688	-1.013*	0.0497
Kurtosis						0.5491	0.1556	0.8373	-0.435
Replicate F						5.630	10.977	5.388	0.085
Replicate Prob(F)						0.0031	0.0001	0.0039	0.9677
Treatment F						4.557	0.214	5.629	1.401
Treatment Prob(F)						0.0003	0.9953	0.0001	0.2188

Crop Code
 ZEAMX, BCOR, Zea mays, = US

Rating Type
 YIELD = yield
 MOICON = moisture content
 WEITES = weight - test

Rating Unit
 % = percent
 BU = bushel

PLOT = total plot
 A = acre

Plant-Eval Interval
 151 DP-1 = 1 ZEAMX 5-3-2015

ARM Action Codes
 TY1 = 5.185714*[31]*(100-[32])/84.5