The Ohio State University

Country	Region	Use	Disc.	Seq.	Year	
US	NK	S	H	001	2016	USNKSH0012016

Title: Syngenta One Pass Trial Corn

Protocol Id.: HEHLCOR4-2016US
Master Protocol Id.:
Official Trial Id.:
Revision Date:
Trial Origin: C Cooperator trial

FPLS Protocol Creation Date:
FPLS Protocol Last Change Date:
GEP: N
Licensee: Dr. Mark M. Loux

Trial Site Information

Trial Location: South Charleston
County: Clark
State/Province: OH
Postal Code: 45368
Trial Country: US United States Of America

N-Latitude of LL Corner °: 39.860300
E-Longitude of LL Corner °: -83.672160
Altitude of LL Corner(m): 330.00

Climate Zone

No.	Climate Zone	Description
1.	EPPONE	Eppo-north east

Site Type: FIELD Field
Tillage Type: CONTIL Conventional-till

Experimental Unit: 1.0 PLOT Plot
Distance between Blocks: 3.0 M
Block Arrangement: BUPPSS All blocks lying upon each other, plots side by side
Untreated Arrangement: RAARTR Randomized arrangement within trial

Study Design: RACOBL Randomized Complete Block
Plot Width: 10 FT **Plot Area:** 300.0 FT2 **Treatments:** 10
Plot Length: 30 FT **Replicates:** 4

Previous Crop/Pest

No.	Year	Previous Crop/Pest
1.	2015	SOYBEANS

General Trial Information

Initiation/Establish Date: 4-12-2016 **Protocol Id. :** HEHLCOR4-2016US

Investigator: Dr. Mark M. Loux

No.	Date	Special Observations
1.		

Crop Description

	1.
Date:	4-22-2016
Crop Code, BBCH Scale:	ZEAMX BCOR
Crop/Site:	Corn
Variety:	P1197AMXT
Planting Date:	4-22-2016
Emergence Date:	5-1-2016
Planting Type:	PLA
Planting Type Description:	Planting of seeds
Planting Depth Min, Max, Unit:	1.5 1.75 IN
Row Spacing, Unit:	30.0 IN
Planting Rate, Unit:	32097.0 S/A
Planting Method:	SEEDED
Planting Method Description:	Seeded
Genetic Type A:	GLYPHOSATE-R

Pest Description

	1.	2.	3.	4.	5.	6.
Date:	5-23-2016	5-23-2016	5-23-2016	5-23-2016	5-23-2016	5-23-2016
Pest Code, Stage Scale:	SETFA BGRM	AMBTR BBCH	CHEAL BBCH	ABUTH BBCH	HIBTR BDIC	AMARE BDWE
Pest:	Setaria faberi	Ambrosia trifida	Chenopodium album	Abutilon theophrasti	Hibiscus trionum	Amaranthus retroflexus
Occurrence Type:	OCC	OCC	OCC	OCC	OCC	OCC
Occurrence Type:	Occurred	Occurred	Occurred	Occurred	Occurred	Occurred

	7.	8.	9.
Date:	5-23-2016	5-23-2016	6-22-2016
Pest Code, Stage Scale:	AMBEL BBCH	POLPY BBCH	IPOHE BDIC
Pest:	Ambrosia artemisiifolia	Polygonum pensylvanicum	Ipomoea hederacea
Occurrence Type:	OCC	OCC	OCC
Occurrence Type:	Occurred	Occurred	Occurred

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Title: Syngenta One Pass Trial Corn

Protocol Id.: HEHLCOR4-2016US FPLS Protocol Creation Date:
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Official Trial Id.: GEP: N
Revision Date: Licensee: Dr. Mark M. Loux
Trial Origin: C Cooperator trial

Crop Stage

	1.	2.	3.	4.
Date:	4-22-2016	5-23-2016	6-22-2016	7-25-2016
Crop Code, BBCH Scale:	1 ZEAMX BCOR	1 ZEAMX BCOR	1 ZEAMX BCOR	1 ZEAMX BCOR
Crop/Site:	Corn	Corn	Corn	Corn
Variety:	P1197AMXT	P1197AMXT	P1197AMXT	P1197AMXT
Stage Majority, Percent:	00 100	12 100	39 100	67 100
Stage Minimum, Percent:	00	12 100	39 100	67 100
Stage Maximum, Percent:	00	12 100	39 100	67 100
Tree/Crop Row Volume Information				
LAI Leaf Area Index Information				

Pest Stage

	1.	2.	3.	4.
Date:	5-23-2016	5-23-2016	5-23-2016	5-23-2016
Pest Code, Stage Scale:	1 SETFA BGRM	2 AMBTR BBCH	3 CHEAL BBCH	4 ABUTH BBCH
Pest:	Setaria faberi	Ambrosia trifida	Chenopodium album	Abutilon theophrasti
Stage Majority, Percent:	12 100	14 100	14 100	12 100
Stage Minimum, Percent:	12	14	14	12
Stage Maximum, Percent:	12	14	14	12
Density Majority, Min, Max:	312.0 312.0 312.0	19.0 19.0 19.0	71.0 71.0 71.0	4.0 4.0 4.0
Density Unit:	PER SQUARE METER	PER SQUARE METER	PER SQUARE METER	PER SQUARE METER

	5.	6.	7.	8.
Date:	5-23-2016	5-23-2016	5-23-2016	5-23-2016
Pest Code, Stage Scale:	5 HIBTR BDIC	8 POLPY BBCH	6 AMARE BDWE	7 AMBEL BBCH
Pest:	Hibiscus trionum	Polygonum pensylvanicum	Amaranthus retroflexus	Ambrosia artemisiifolia
Stage Majority, Percent:	12 100	12 100	14 100	14 100
Stage Minimum, Percent:	12	12	14	14
Stage Maximum, Percent:	12	12	14	14
Density Majority, Min, Max:	15.0 15.0 15.0	11.0 11.0 11.0	5.0 5.0 5.0	2.0 2.0 2.0
Density Unit:	PER SQUARE METER	PER SQUARE METER	PER SQUARE METER	PER SQUARE METER

	9.	10.	11.	12.	13.
Date:	6-22-2016	6-22-2016	6-22-2016	6-22-2016	6-22-2016
Pest Code, Stage Scale:	1 SETFA BGRM	2 AMBTR BBCH	3 CHEAL BBCH	6 AMARE BDWE	4 ABUTH BBCH
Pest:	Setaria faberi	Ambrosia trifida	Chenopodium album	Amaranthus retroflexus	Abutilon theophrasti
Stage Majority, Percent:	22 100	24 100	19 100	19 100	18 100
Stage Minimum, Percent:	22	24	19	19	18
Stage Maximum, Percent:	22	24	19	19	18
Density Majority, Min, Max:					
Density Unit:					

	14.	15.	16.	17.	18.
Date:	6-22-2016	6-22-2016	6-22-2016	6-22-2016	6-22-2016
Pest Code, Stage Scale:	8 POLPY BBCH	9 IPOHE BDIC	7 AMBEL BBCH	5 HIBTR BDIC	9 IPOHE BDIC
Pest:	Polygonum pensylvanicum	Ipomoea hederacea	Ambrosia artemisiifolia	Hibiscus trionum	Ipomoea hederacea
Stage Majority, Percent:	19 100	16 100	14 100	16 100	16 100
Stage Minimum, Percent:	19	16	14	16	16
Stage Maximum, Percent:	19	16	14	16	16
Density Majority, Min, Max:					
Density Unit:					

	19.	20.	21.	22.	23.
Date:	7-25-2016	7-25-2016	7-25-2016	7-25-2016	7-25-2016
Pest Code, Stage Scale:	1 SETFA BGRM	2 AMBTR BBCH	3 CHEAL BBCH	6 AMARE BDWE	4 ABUTH BBCH
Pest:	Setaria faberi	Ambrosia trifida	Chenopodium album	Amaranthus retroflexus	Abutilon theophrasti
Stage Majority, Percent:	23 100	26 100	53 100	51 100	49 100
Stage Minimum, Percent:	23	26	53	51	49
Stage Maximum, Percent:	23	26	53	51	49
Density Majority, Min, Max:					
Density Unit:					

	24.	25.	26.
Date:	7-25-2016	7-25-2016	7-25-2016
Pest Code, Stage Scale:	8 POLPY BBCH	9 IPOHE BDIC	5 HIBTR BDIC
Pest:	Polygonum pensylvanicum	Ipomoea hederacea	Hibiscus trionum
Stage Majority, Percent:	51 100	19 100	63 100
Stage Minimum, Percent:	51	19	63
Stage Maximum, Percent:	51	19	63
Density Majority, Min, Max:			
Density Unit:			

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US	NK	S	H	001	2016	USNKSH0012016

Title: Syngenta One Pass Trial Corn

Protocol Id.: HEHLCOR4-2016US FPLS Protocol Creation Date:
Master Protocol Id.: FPLS Protocol Last Change Date:
Official Trial Id.: GEP: N
Revision Date: Licensee: Dr. Mark M. Loux
Trial Origin: C Cooperator trial

Weather Description

Closest Weather Station: Western Ag Research **Distance to Weather Station:** 500.0 M

No.	Date	Temp. Min	Temp. Max	Temp. Unit	Humidity Min	Humidity Max	Min. Wind Velocity	Max Velocity	Wind Unit	Wind Direction	% Cloud Cover	% Cloud After	Next Rain After	Rain Appl. Unit
1.	4-20-2016	48.1	76.8	F	33.0	74.0	0.0	11.5	MPH	E	20	20	1.0	DAY

No.	Code	Comment
1.	1	At Application: 65 F, 33% RH, wind 6 mph East, Soil 52 F, 20% clouds, soil 52 F, normal

No.	Date	Soil Temp.	Unit	Soil Moisture Condition
1.	4-20-2016	52.0	F	GOOD

Application

A

Application Date:	4-20-2016
Application Time:	12:00 AM
Applied By:	Dobbels
Target Crop:	1 ZEAMX
Crop Variety:	P1197AMXT
Crop Stage at Appl. Maj,Min,Max:	00 00 00
Equipment Name:	10' AI XR
Application Equipment:	BOSPHH
Application Equipment:	Boom sprayer - handheld - horizontal
Pressure, Unit:	46 PSI
Nozzle Type:	AIFLAF
Nozzle Type:	Air induction - flat fan
Nozzle Description:	110015
Nozzle Spacing, Unit:	18 IN
Boom Length, Unit:	10 FT
Boom Height, Unit:	20 IN
Ground Speed, Unit:	3 MPH
Spray Volume, Unit:	15 GPA
Mix Size, Unit:	2 L
Propellant:	COMCO2
Carrier:	WATER

Soil

Description Name: CROSBY

% OM: 2.0 **Texture:** SIC Silty clay
Fertility: G Good
pH H2O: 6.9 **Drainage:** G Good
CEC: 14.0

Date:11-15-2015
Lab Texture:SIC Silty clay

Inoculation/Infestation

No.	Task	Comment
1.		

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Revision Date: Licensee: Dr. Mark M. Loux
Trial Origin: C Cooperator trial

Assessment Date	5-23-2016	5-23-2016	5-23-2016	5-23-2016	5-23-2016
Assessment Time	12:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM
Assessed By	Dr. Mark M. Loux	Dr. Mark M. Loux	Dr. Mark M. Loux	Dr. Mark M. Loux	Dr. Mark M. Loux
Crop Code	1 ZEAMX	1 ZEAMX	1 ZEAMX	1 ZEAMX	1 ZEAMX
Crop Variety	P1197AMXT	P1197AMXT	P1197AMXT	P1197AMXT	P1197AMXT
Crop Stage Majority	12	12	12	12	12
Crop Stage Minimum, Maximum	12 12	12 12	12 12	12 12	12 12
Pest Code		1 SETFA	2 AMBTR	3 CHEAL	4 ABUTH
Pest Stage Majority		12	14	14	12
Pest Stage Minimum, Maximum		12 12	14 14	14 14	12 12
SE Group No.	1	2	3	4	5
SE Name	ZUSX001	(ZUSW001)	(ZUSW001)	(ZUSW001)	(ZUSW001)
Part Assessed	PLANT	PLANT	PLANT	PLANT	PLANT
Assessment Data Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO
Assessment Unit	%	%	%	%	%
Samples per 1 Collect. Basis, Unit	1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT
Collection Basis, Unit	1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT
Reporting Basis, Unit	1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW
Calculation, Scale Type	NC S	NC S	NC S	NC S	NC S
Scale Minimum, Maximum	0 100	0 100	0 100	0 100	0 100
Number of Subsamples	1	1	1	1	1
Transformation Code	0	0	0	0	0
Assessment Timing ID	1	1	1	1	1
Days After Planting	31DAP-1	31DAP-1	31DAP-1	31DAP-1	31DAP-1
Days Application to Assessment	33 DA-A	33 DA-A	33 DA-A	33 DA-A	33 DA-A
Days After Emergence	22 DE-	22 DE-	22 DE-	22 DE-	22 DE-
Days After Last Application	33	33	33	33	33
No. Decimals Reported	0	0	0	0	0

Trt	Trt/Product Name	Converted Rate	Converted Rate Unit	Appl. Code	1*	2*	3*	4*	5*
1	Untreated Check				0 -	0 b	0 d	0 b	0 b
2	Acuron 3.44 ZC	3.0	qt/a	A	0 -	100 a	93 ab	100 a	100 a
3	Acuron 3.44 ZC	3.0	qt/a	A	0 -	100 a	99 a	100 a	100 a
	Princep 4L	1.0	qt/a	A					
4	Acuron Flexi	2.25	qt/a	A	0 -	100 a	90 bc	100 a	100 a
5	Corvus 2.63 SC	5.6	flozpr/a	A	0 -	100 a	97 ab	100 a	100 a
	Atrazine 4L 4 SC	1.0	qt/a	A					
6	Resicore 3.29 SC	2.5	qt/a	A	0 -	100 a	92 ab	100 a	100 a
7	Anthem ATZ	2.5	pt/a	A	0 -	100 a	84 c	100 a	100 a
8	Cinch ATZ 5.5 SC	2.0	qt/a	A	0 -	100 a	96 ab	100 a	100 a
	Instigate 45.84 WG	5.0	ozwtpr/a	A					
9	Verdict 400 EC	18.0	flozpr/a	A	0 -	100 a	94 ab	100 a	100 a
10	Bicep II Magnum 5.5 SC	2.0	qt/a	A	0 -	100 a	99 a	100 a	100 a
	Balance Flexx 2 SC	3.0	flozpr/a	A					
LSD P=.05					.	.	7.3	.	.
Standard Deviation					0.0	0.0	5.0	0.0	0.0
CV					0.0	0.0	5.98	0.0	0.0
Bartlett's X2					0.0	0.0	16.55	0.0	0.0
P(Bartlett's X2)					.	.	0.035*	.	.
Skewness					.	-2.7717*	-2.5583*	-2.7717*	-2.7717*
Kurtosis					.	5.9791*	5.2228*	5.9791*	5.9791*
Replicate F					0.000	0.000	0.414	0.000	0.000
Replicate Prob(F)					1.0000	1.0000	0.7441	1.0000	1.0000
Treatment F					0.000	0.000	141.113	0.000	0.000
Treatment Prob(F)					1.0000	1.0000	0.0001	1.0000	1.0000

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Revision Date: Licensee: Dr. Mark M. Loux
Trial Origin: C Cooperator trial

Assessment Date	5-23-2016	5-23-2016	6-22-2016	6-22-2016	6-22-2016
Assessment Time	12:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM
Assessed By	Dr. Mark M. Loux	Dr. Mark M. Loux	Dr. Mark M. Loux	Dr. Mark M. Loux	Dr. Mark M. Loux
Crop Code	1 ZEAMX	1 ZEAMX	1 ZEAMX	1 ZEAMX	1 ZEAMX
Crop Variety	P1197AMXT	P1197AMXT	P1197AMXT	P1197AMXT	P1197AMXT
Crop Stage Majority	12	12	39	39	39
Crop Stage Minimum, Maximum	12 12	12 12	39 39	39 39	39 39
Pest Code	5 HIBTR	8 POLPY	1 SETFA	2 AMBTR	3 CHEAL
Pest Stage Majority	12	12	22	24	19
Pest Stage Minimum, Maximum	12 12	12 12	22 22	24 24	19 19
SE Group No.	6	7	8	9	10
SE Name	(ZUSW001)	(ZUSW001)	(ZUSW001)	(ZUSW001)	(ZUSW001)
Part Assessed	PLANT	PLANT	PLANT	PLANT	PLANT
Assessment Data Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Assessment Unit	%	%	%	%	%
Samples per 1 Collect. Basis, Unit	1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT
Collection Basis, Unit	1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT
Reporting Basis, Unit	1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW
Calculation, Scale Type	NC S	NC S	NC S	NC S	NC S
Scale Minimum, Maximum	0 100	0 100	0 100	0 100	0 100
Number of Subsamples	1	1	1	1	1
Transformation Code	0	0	0	0	0
Assessment Timing ID	1	1	2	2	2
Days After Planting	31DAP-1	31DAP-1	61DAP-1	61DAP-1	61DAP-1
Days Application to Assessment	33 DA-A	33 DA-A	63 DA-A	63 DA-A	63 DA-A
Days After Emergence	22 DE-	22 DE-	52 DE-	52 DE-	52 DE-
Days After Last Application	33	33	63	63	63
No. Decimals Reported	0	0	0	0	0

Trt	Trt/Product Name	Converted Rate	Converted Rate Unit	Appl. Code	6*	7*	8*	9*	10*
1	Untreated Check				0 b	0 b	0 e	0 d	0 c
2	Acuron 3.44 ZC	3.0	qt/a	A	100 a	100 a	91 abc	81 ab	100 a
3	Acuron 3.44 ZC	3.0	qt/a	A	100 a	100 a	97 a	83 ab	100 a
	Princep 4L	1.0	qt/a	A					
4	Acuron Flexi	2.25	qt/a	A	100 a	100 a	91 abc	78 ab	100 a
5	Corvus 2.63 SC	5.6	flozpr/a	A	100 a	100 a	83 cd	84 a	100 a
	Atrazine 4L 4 SC	1.0	qt/a	A					
6	Resicore 3.29 SC	2.5	qt/a	A	100 a	100 a	96 ab	70 bc	100 a
7	Anthem ATZ	2.5	pt/a	A	100 a	100 a	95 ab	60 c	100 a
8	Cinch ATZ 5.5 SC	2.0	qt/a	A	100 a	100 a	87 bcd	83 ab	100 a
	Instigate 45.84 WG	5.0	ozwtpr/a	A					
9	Verdict 400 EC	18.0	flozpr/a	A	100 a	100 a	79 d	78 ab	99 ab
10	Bicep II Magnum 5.5 SC	2.0	qt/a	A	100 a	100 a	94 ab	80 ab	96 b
	Balance Flexx 2 SC	3.0	flozpr/a	A					
LSD P=.05					.	.	10.2	12.7	3.7
Standard Deviation					0.0	0.0	7.0	8.8	2.6
CV					0.0	0.0	8.65	12.64	2.87
Bartlett's X2					0.0	0.0	7.05	10.276	3.324
P(Bartlett's X2)					.	.	0.531	0.246	0.068
Skewness					-2.7717*	-2.7717*	-2.355*	-2.0821*	-2.7365*
Kurtosis					5.9791*	5.9791*	4.5353*	3.4908*	5.8437*
Replicate F					0.000	0.000	0.763	0.035	1.675
Replicate Prob(F)					1.0000	1.0000	0.5247	0.9909	0.1958
Treatment F					0.000	0.000	68.953	33.596	601.760
Treatment Prob(F)					1.0000	1.0000	0.0001	0.0001	0.0001

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Revision Date: Licensee: Dr. Mark M. Loux
Trial Origin: C Cooperator trial

Assessment Date	6-22-2016	6-22-2016	6-22-2016	6-22-2016	6-22-2016
Assessment Time	12:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM
Assessed By	Dr. Mark M. Loux	Dr. Mark M. Loux	Dr. Mark M. Loux	Dr. Mark M. Loux	Dr. Mark M. Loux
Crop Code	1 ZEAMX	1 ZEAMX	1 ZEAMX	1 ZEAMX	1 ZEAMX
Crop Variety	P1197AMXT	P1197AMXT	P1197AMXT	P1197AMXT	P1197AMXT
Crop Stage Majority	39	39	39	39	39
Crop Stage Minimum, Maximum	39 39	39 39	39 39	39 39	39 39
Pest Code	6 AMARE	4 ABUTH	8 POLPY	9 IPOHE	5 HIBTR
Pest Stage Majority	19	18	19	16	16
Pest Stage Minimum, Maximum	19 19	18 18	19 19	16 16	16 16
SE Group No.	11	12	13	14	15
SE Name	(ZUSW001)	(ZUSW001)	(ZUSW001)	(ZUSW001)	(ZUSW001)
Part Assessed	PLANT	PLANT	PLANT	PLANT	PLANT
Assessment Data Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Assessment Unit	%	%	%	%	%
Samples per 1 Collect. Basis, Unit	1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT
Collection Basis, Unit	1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT
Reporting Basis, Unit	1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW
Calculation, Scale Type	NC S	NC S	NC S	NC S	NC S
Scale Minimum, Maximum	0 100	0 100	0 100	0 100	0 100
Number of Subsamples	1	1	1	1	1
Transformation Code	0	0	0	0	0
Assessment Timing ID	2	2	2	2	2
Days After Planting	61DAP-1	61DAP-1	61DAP-1	61DAP-1	61DAP-1
Days Application to Assessment	63 DA-A	63 DA-A	63 DA-A	63 DA-A	63 DA-A
Days After Emergence	52 DE-	52 DE-	52 DE-	52 DE-	52 DE-
Days After Last Application	63	63	63	63	63
No. Decimals Reported	0	0	0	0	0

Trt	Trt/Product Name	Converted Rate	Converted Rate Unit	Appl. Code	11*	12*	13*	14*	15*
1	Untreated Check				0 b	0 c	0 c	0 c	0 d
2	Acuron 3.44 ZC	3.0	qt/a	A	100 a	96 ab	100 a	85 b	99 ab
3	Acuron 3.44 ZC	3.0	qt/a	A	100 a	100 a	100 a	85 b	100 a
	Princep 4L	1.0	qt/a	A					
4	Acuron Flexi	2.25	qt/a	A	100 a	100 a	100 a	84 b	83 c
5	Corvus 2.63 SC	5.6	flozpr/a	A	100 a	93 b	100 a	93 ab	100 a
	Atrazine 4L 4 SC	1.0	qt/a	A					
6	Resicore 3.29 SC	2.5	qt/a	A	100 a	91 b	95 b	83 b	95 ab
7	Anthem ATZ	2.5	pt/a	A	100 a	100 a	100 a	100 a	95 ab
8	Cinch ATZ 5.5 SC	2.0	qt/a	A	100 a	100 a	100 a	95 ab	96 ab
	Instigate 45.84 WG	5.0	ozwtpr/a	A					
9	Verdict 400 EC	18.0	flozpr/a	A	100 a	100 a	100 a	95 ab	88 bc
10	Bicep II Magnum 5.5 SC	2.0	qt/a	A	100 a	100 a	100 a	82 b	94 abc
	Balance Flexx 2 SC	3.0	flozpr/a	A					
LSD P=.05					.	7.0	4.6	13.5	12.0
Standard Deviation					0.0	4.9	3.2	9.3	8.3
CV					0.0	5.52	3.53	11.63	9.73
Bartlett's X2					0.0	0.296	0.0	5.784	6.32
P(Bartlett's X2)					.	0.862	.	0.565	0.388
Skewness					-2.7717*	-2.6225*	-2.7228*	-2.1702*	-2.3782*
Kurtosis					5.9791*	5.4172*	5.7837*	3.9708*	4.5279*
Replicate F					0.000	1.059	1.000	0.762	0.052
Replicate Prob(F)					1.0000	0.3829	0.4079	0.5253	0.9838
Treatment F					0.000	163.894	396.556	38.345	53.995
Treatment Prob(F)					1.0000	0.0001	0.0001	0.0001	0.0001

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Country Region Use Disc. Seq. Year
US NK S H 001 2016 USNKSH0012016
Title: Syngenta One Pass Trial Corn

Protocol Id.: HEHLCOR4-2016US FPLS Protocol Creation Date:
Master Protocol Id.: FPLS Protocol Last Change Date:
Official Trial Id.: GEP: N
Revision Date: Licensee: Dr. Mark M. Loux
Trial Origin: C Cooperator trial

Assessment Date		6-22-2016	7-25-2016	7-25-2016	7-25-2016	7-25-2016
Assessment Time		12:00 AM	12:00 AM	12:00 AM	12:00 AM	12:00 AM
Assessed By		Dr. Mark M. Loux	Dr. Mark M. Loux	Dr. Mark M. Loux	Dr. Mark M. Loux	Dr. Mark M. Loux
Crop Code		1 ZEAMX	1 ZEAMX	1 ZEAMX	1 ZEAMX	1 ZEAMX
Crop Variety		P1197AMXT	P1197AMXT	P1197AMXT	P1197AMXT	P1197AMXT
Crop Stage Majority		39	67	67	67	67
Crop Stage Minimum, Maximum		39 39	67 67	67 67	67 67	67 67
Pest Code		7 AMBEL	1 SETFA	2 AMBTR	3 CHEAL	6 AMARE
Pest Stage Majority		14	23	26	53	51
Pest Stage Minimum, Maximum		14 14	23 23	26 26	53 53	51 51
SE Group No.		16	19	20	21	22
SE Name		(ZUSW001)	(ZUSW001)	(ZUSW001)	(ZUSW001)	(ZUSW001)
Part Assessed		PLANT	PLANT	PLANT	PLANT	PLANT
Assessment Data Type		CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Assessment Unit		%	%	%	%	%
Samples per 1 Collect. Basis, Unit		1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT
Collection Basis, Unit		1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT
Reporting Basis, Unit		1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT
Assessment Type, Sub-Type		NOR RAW	NOR RAW	NOR RAW	NOR RAW	NOR RAW
Calculation, Scale Type		NC S	NC S	NC S	NC S	NC S
Scale Minimum, Maximum		0 100	0 100	0 100	0 100	0 100
Number of Subsamples		1	1	1	1	1
Transformation Code		0	0	0	0	0
Assessment Timing ID		2	3	3	3	3
Days After Planting		61DAP-1	94DAP-1	94DAP-1	94DAP-1	94DAP-1
Days Application to Assessment		63 DA-A	96 DA-A	96 DA-A	96 DA-A	96 DA-A
Days After Emergence		52 DE-	85 DE-	85 DE-	85 DE-	85 DE-
Days After Last Application		63	96	96	96	96
No. Decimals Reported		0	0	0	0	0

Trt	Trt/Product Name	Converted Rate	Converted Rate Unit	Appl. Code	16*	17*	18*	19*	20*
1	Untreated Check				0 b	0 c	0 d	0 b	0 c
2	Acuron 3.44 ZC	3.0	qt/a	A	100 a	92 a	80 a	100 a	100 a
3	Acuron 3.44 ZC	3.0	qt/a	A	100 a	94 a	79 a	100 a	100 a
	Princep 4L	1.0	qt/a	A					
4	Acuron Flexi	2.25	qt/a	A	100 a	89 a	78 ab	100 a	96 a
5	Corvus 2.63 SC	5.6	flozpr/a	A	100 a	81 b	80 a	100 a	100 a
	Atrazine 4L 4 SC	1.0	qt/a	A					
6	Resicore 3.29 SC	2.5	qt/a	A	100 a	94 a	66 bc	100 a	99 a
7	Anthem ATZ	2.5	pt/a	A	100 a	91 a	64 c	95 a	100 a
8	Cinch ATZ 5.5 SC	2.0	qt/a	A	100 a	90 a	76 ab	100 a	100 a
	Instigate 45.84 WG	5.0	ozwtpr/a	A					
9	Verdict 400 EC	18.0	flozpr/a	A	100 a	80 b	75 abc	99 a	90 b
10	Bicep II Magnum 5.5 SC	2.0	qt/a	A	100 a	90 a	76 ab	95 a	98 a
	Balance Flexx 2 SC	3.0	flozpr/a	A					
LSD P=.05					.	7.3	12.0	6.3	4.6
Standard Deviation					0.0	5.0	8.3	4.3	3.2
CV					0.0	6.26	12.32	4.88	3.58
Bartlett's X2					0.0	5.785	6.456	4.803	3.295
P(Bartlett's X2)					.	0.671	0.596	0.091	0.348
Skewness					-2.7717*	-2.5164*	-2.1395*	-2.6738*	-2.6803*
Kurtosis					5.9791*	5.0837*	3.7718*	5.5943*	5.6434*
Replicate F					0.000	0.350	0.796	1.986	1.417
Replicate Prob(F)					1.0000	0.7896	0.5067	0.1398	0.2595
Treatment F					0.000	129.931	34.299	208.665	388.500
Treatment Prob(F)					1.0000	0.0001	0.0001	0.0001	0.0001

The Ohio State University

Country Region Use Disc. Seq. Year
US NK S H 001 2016 USNKSH0012016
Title: Syngenta One Pass Trial Corn

Protocol Id.: HEHLCOR4-2016US FPLS Protocol Creation Date:
Master Protocol Id.: FPLS Protocol Last Change Date:
Official Trial Id.: GEP: N
Revision Date: Licensee: Dr. Mark M. Loux
Trial Origin: C Cooperator trial

Assessment Date	7-25-2016	7-25-2016	7-25-2016	7-25-2016
Assessment Time	12:00 AM	12:00 AM	12:00 AM	12:00 AM
Assessed By	Dr. Mark M. Loux	Dr. Mark M. Loux	Dr. Mark M. Loux	Dr. Mark M. Loux
Crop Code	1 ZEAMX	1 ZEAMX	1 ZEAMX	1 ZEAMX
Crop Variety	P1197AMXT	P1197AMXT	P1197AMXT	P1197AMXT
Crop Stage Majority	67	67	67	67
Crop Stage Minimum, Maximum	67 67	67 67	67 67	67 67
Pest Code	4 ABUTH	8 POLPY	9 IPOHE	5 HIBTR
Pest Stage Majority	49	51	19	63
Pest Stage Minimum, Maximum	49 49	51 51	19 19	63 63
SE Group No.	23	24	25	26
SE Name	(ZUSW001)	(ZUSW001)	(ZUSW001)	(ZUSW001)
Part Assessed	PLANT	PLANT	PLANT	PLANT
Assessment Data Type	CONTRO	CONTRO	CONTRO	CONTRO
Assessment Unit	%	%	%	%
Samples per 1 Collect. Basis, Unit	1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT
Collection Basis, Unit	1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT
Reporting Basis, Unit	1.0 PLOT	1.0 PLOT	1.0 PLOT	1.0 PLOT
Assessment Type, Sub-Type	NOR RAW	NOR RAW	NOR RAW	NOR RAW
Calculation, Scale Type	NC S	NC S	NC S	NC S
Scale Minimum, Maximum	0 100	0 100	0 100	0 100
Number of Subsamples	1	1	1	1
Transformation Code	0	0	0	0
Assessment Timing ID	3	3	3	3
Days After Planting	94DAP-1	94DAP-1	94DAP-1	94DAP-1
Days Application to Assessment	96 DA-A	96 DA-A	96 DA-A	96 DA-A
Days After Emergence	85 DE-	85 DE-	85 DE-	85 DE-
Days After Last Application	96	96	96	96
No. Decimals Reported	0	0	0	0

Trt	Trt/Product Name	Converted Rate	Converted Rate Unit	Appl. Code	21*	22*	23*	24*
1	Untreated Check				0 c	0 b	0 d	0 c
2	Acuron 3.44 ZC	3.0	qt/a	A	100 a	100 a	94 ab	100 a
3	Acuron 3.44 ZC	3.0	qt/a	A	100 a	100 a	78 bc	100 a
	Princep 4L	1.0	qt/a	A				
4	Acuron Flexi	2.25	qt/a	A	100 a	100 a	71 c	73 b
5	Corvus 2.63 SC	5.6	flozpr/a	A	93 b	100 a	85 abc	100 a
	Atrazine 4L 4 SC	1.0	qt/a	A				
6	Resicore 3.29 SC	2.5	qt/a	A	100 a	100 a	75 c	93 a
7	Anthem ATZ	2.5	pt/a	A	100 a	100 a	96 a	100 a
8	Cinch ATZ 5.5 SC	2.0	qt/a	A	100 a	100 a	89 abc	100 a
	Instigate 45.84 WG	5.0	ozwtpr/a	A				
9	Verdict 400 EC	18.0	flozpr/a	A	100 a	100 a	79 abc	90 a
10	Bicep II Magnum 5.5 SC	2.0	qt/a	A	100 a	100 a	80 abc	89 ab
	Balance Flexx 2 SC	3.0	flozpr/a	A				
LSD P=.05					6.9	.	18.7	16.5
Standard Deviation					4.7	0.0	12.9	11.3
CV					5.31	0.0	17.29	13.44
Bartlett's X2					0.0	0.0	7.128	0.467
P(Bartlett's X2)					.	.	0.523	0.926
Skewness					-2.6709*	-2.7717*	-1.7059*	-2.0839*
Kurtosis					5.5484*	5.9791*	2.4817*	3.247*
Replicate F					1.000	0.000	0.844	0.251
Replicate Prob(F)					0.4079	1.0000	0.4817	0.8598
Treatment F					175.815	0.000	18.080	29.716
Treatment Prob(F)					0.0001	1.0000	0.0001	0.0001

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Country	Region	Use	Disc.	Seq.	Year	
US	NK	S	H	001	2016	USNKSH0012016

Title: Syngenta One Pass Trial Corn

Protocol Id.: HEHLCOR4-2016US FPLS Protocol Creation Date:
Master Protocol Id.: FPLS Protocol Last Change Date:
Official Trial Id.: GEP: N
Revision Date: Licensee: Dr. Mark M. Loux
Trial Origin: C Cooperator trial

Crop Code GUID
T171, 1, ZEAMX, P1197AMXT, BCOR = Corn
Crop Stage GUID
T445, 12, 12, 12 = 5-23-2016
T575, 39, 39, 39 = 6-22-2016
T1301, 67, 67, 67 = 7-25-2016
Pest Code GUID
T173, 1, SETFA, , BGRM = Setaria faberi
T175, 2, AMBTR, , BBCH = Ambrosia trifida
T180, 3, CHEAL, , BBCH = Chenopodium album
T184, 4, ABUTH, , BBCH = Abutilon theophrasti
T187, 5, HIBTR, , BDIC = Hibiscus trionum
T529, 8, POLPY, , BBCH = Polygonum pensylvanicum
T507, 6, AMARE, , BDWE = Amaranthus retroflexus
T583, 9, IPOHE, , BDIC = Ipomoea hederacea
T509, 7, AMBEL, , BBCH = Ambrosia artemisiifolia
Pest Stage GUID
T120, 12, 12, 12 = 5-23-2016
T510, 22, 22, 22 = 6-22-2016
T601, 23, 23, 23 = 7-25-2016
Part Assessed ID_SEQ
7280, PLANT = PLANT
Assessment Data Type ID_SEQ
5315, PHYGEN = PHYTOTOXICITY - GENERAL
5260, CONTRO = CONTROL
Assessment Unit ID_SEQ
1221, % = PERCENT
Sample Size Unit ID_SEQ
9719, PLOT = PLOT
Collection Basis Unit ID_SEQ
9719, PLOT = PLOT
Reporting Basis Unit ID_SEQ
9719, PLOT = PLOT
Assessment Type, Sub-Type
NOR = NORMAL
RAW = RAW DATA
Calculation, Scale Type
NC = NO CALCULATION
S = SUBJECTIVE
Transformation Code
0 = No Transformation
Days After Planting
31DAP-1 = 1 ZEAMX 4-22-2016
61DAP-1 = 1 ZEAMX 4-22-2016
94DAP-1 = 1 ZEAMX 4-22-2016