

Ohio State University Horticulture and Crop Science

Syngenta two pass programs in Roundup Ready Corn

Title No. 2:
 Trial ID: 11SYN2PASS Protocol ID: 11SYN2PASS
 Location: WESTERN BRANCH G-6 Study Director: Anthony F. Dobbels
 Project ID: Investigator: Dr. Mark M. Loux
 Sponsor Contact: Dain Bruns, Syngenta

General Trial Information

Study Director: Anthony F. Dobbels **Title:** Research Specialist
Investigator: Dr. Mark M. Loux **Title:** Professor

Trial Location

City: South Charleston **Latitude of LL Corner °:** 39.85946 N
State/Prov.: Ohio **Longitude of LL Corner °:** -83.67491 W
Postal Code: 45368
Country: USA

Description

14-21 DAT after APPLICATION A

Objectives:

Demonstrate various corn herbicide weed control systems common to the midwest.

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: Pioneer 33W84 **Description:** RR/LL
BBCH Scale: BCOR **Planting Date:** 5/31/11
Planting Method: SEEDED seeded **Rate, Unit:** 32097 S/A
Depth, Unit: 2 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 72 F
Soil Moisture: SLIWET slightly wet **Emergence Date:** 6/6/11

Pest Description

- Pest 1 Type:** W **Code:** SETFA *Setaria faberi*
Common Name: Giant foxtail
- Pest 2 Type:** W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed
- Pest 3 Type:** W **Code:** ABUTH *Abutilon theophrasti*
Common Name: Velvetleaf
- Pest 4 Type:** W **Code:** IPOHE *Ipomoea hederacea*
Common Name: Ivyleaf morningglory
- Pest 5 Type:** W **Code:** AMARE *Amaranthus retroflexus*
Common Name: Redroot pigweed
- Pest 6 Type:** W **Code:** CHEAL *Chenopodium album*
Common Name: Common lambsquarters

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 30 FT **Experimental Unit:** 1 PLOT plot
Plot Area, Unit: 300 FT² **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** RACOB Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

Soil Description

Description Name: G-6
% OM: 2.2 **Texture:** SIL silt loam
pH: 6.3 **Soil Name:** Crosby
CEC: 13.6 **Fert. Level:** G good
Soil Drainage: G good

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Application Description

	A	B
Application Date:	5/31/11	6/27/11
Time of Day:	11:15 A.M	9:00 A.M.
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Application Placement:	BROSOL	BROFOL
Applied By:	Reeb	Dobbels
Air Temperature, Unit:	89.9 F	67.5 F
% Relative Humidity:	62.1	72.5
Wind Velocity, Unit:	3.8 MPH	1.9 MPH
Wind Direction:	SSW	SSW
Dew Presence (Y/N):	N no	Y yes
Soil Temperature, Unit:	72 F	62 F
Soil Moisture:	GOOD	MOIST
% Cloud Cover:	2	75
Next Rain Occurred On:	6/3/11	6/27/11

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		16 100
Height, Unit:		22 IN
Height Minimum, Maximum:		20 24

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:		13 100
Height, Unit:		4 IN
Height Minimum, Maximum:		4 6
Density, Unit:	41 M2	41 M2
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:		16 80
Stage Minimum, Percent:		12 10
Stage Maximum, Percent:		16 80
Density, Unit:	4 M2	4 M2
Pest 3 Code, Type, Scale:	ABUTH W	ABUTH W
Stage Majority, Percent:		12 100
Height, Unit:		1 IN
Height Minimum, Maximum:		1 2
Pest 4 Code, Type, Scale:	IPOHE W	IPOHE W
Stage Majority, Percent:		12 100
Height, Unit:		2 IN
Height Minimum, Maximum:		2 3
Density, Unit:	2 M2	2 M2
Pest 5 Code, Type, Scale:	AMARE W	AMARE W
Stage Majority, Percent:		12 100
Height, Unit:		1 IN
Height Minimum, Maximum:		1 1
Pest 6 Code, Type, Scale:	CHEAL W	CHEAL W
Density, Unit:	2 M2	2 M2

Application Equipment

	A	B
Appl. Equipment:	10 Foot Boom	10 Foot Boom
Equipment Type:	SPRBAC	SPRBAC
Operating Pressure, Unit:	46 PSI	46 PSI
Nozzle Type:	TEEJET DG	TEEJET DG
Nozzle Size:	80015	80015
Nozzle Spacing, Unit:	18 IN	18 IN
Boom Length, Unit:	10 FT	10 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 GPA	15 GPA
Mix Size, Unit:	0.33 Gallons	0.33 Gallons
Propellant:	CO2	CO2

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Location: WESTERN BRANCH G-6
Project ID:

Protocol ID: 11SYN2PASS
Study Director: Anthony F. Dobbels
Investigator: Dr. Mark M. Loux
Sponsor Contact: Dain Bruns, Syngenta

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code	SETFA	AMBTR	ABUTH	AMARE	IPOHE	
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Abutilon theophrasti	Amaranthus retrofractus	Ipomoea hederifolia	
Pest Name	Giant foxtail	Giant ragweed	Velvetleaf	Redroot pigweed	Ivyleaf morningglow	
Crop Code	ZEAMX					ZEAMX
BBCH Scale	BCOR					BCOR
Crop Scientific Name	Zea mays					Zea mays
Crop Name	Corn					Corn
Rating Date	6/27/11	6/27/11	6/27/11	6/27/11	6/27/11	6/27/11 7/5/11
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO PHYGEN
Rating Unit	%	%	%	%	%	% %
Number of Subsamples	1	1	1	1	1	1 1
Days After First/Last Applic.	27 27	27 27	27 27	27 27	27 27	27 27 35 8
Trt-Eval Interval	27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A 8 DA-B
Plant-Eval Interval	27 DP-1	27 DP-1	27 DP-1	27 DP-1	27 DP-1	27 DP-1 35 DP-1
Days After Emergence	21 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1 29 DE-1
Number of Decimals	0	0	0	0	0	0 0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	1	2	3	4	5	6	7
1	Lumax	3.94	2 qt/a		A	0	96	93	100	100	68	0
1	Touchdown Total	4.17	24 oz/a		B							
1	N-PAK AMS	100	1.5 qt/a		B							
2	Lexar	3.7	2.25 qt/a		A	0	83	79	100	100	63	0
2	Touchdown Total	4.17	24 oz/a		B							
2	N-PAK AMS	100	1.5 qt/a		B							
3	Corvus	2.63	3 oz/a		A	0	63	68	100	100	63	0
3	Atrazine	4	1 qt/a		A							
3	Touchdown Total	4.17	24 oz/a		B							
3	N-PAK AMS	100	1.5 qt/a		B							
4	Verdict	5.57	10 oz/a		A	0	76	69	95	100	49	0
4	Touchdown Total	4.17	24 oz/a		B							
4	N-PAK AMS	100	1.5 qt/a		B							
5	Surestart	4.25	1.75 pt/a		A	0	86	63	75	100	32	0
5	Durango DMA	4	24 oz/a		B							
5	N-PAK AMS	100	1.5 qt/a		B							
6	Fierce	76	2 oz/a		A	15	63	60	96	94	43	0
6	Touchdown Total	4.17	24 oz/a		B							
6	N-PAK AMS	100	1.5 qt/a		B							
7	Balance Flexx	2	3 oz/a		A	0	64	69	100	100	38	0
7	Atrazine	4	1 qt/a		A							
7	Touchdown Total	4.17	24 oz/a		B							
7	N-PAK AMS	100	1.5 qt/a		B							
8	Bicep II Magnum	5.5	1.4 qt/a		A	0	91	71	83	89	42	0
8	Touchdown Total	4.17	24 oz/a		B							
8	N-PAK AMS	100	1.5 qt/a		B							
9	Bicep II Magnum	5.5	1.4 qt/a		A	0	91	66	74	98	49	0
9	Halex GT	4.38	3.6 pt/a		B							
9	NIS	100	4.8 oz/a		B							
9	N-PAK AMS	100	1.5 qt/a		B							
10	Zidua	85	1.5 oz/a		A	0	80	65	78	98	39	0
10	Atrazine	4	1 qt/a		A							
10	Touchdown Total	4.17	24 oz/a		B							
10	N-PAK AMS	100	1.5 qt/a		B							
LSD (P=.05)						0.0	12.1	14.0	19.3	7.8	26.3	0.0
Standard Deviation						0.0	8.3	9.6	13.3	5.4	17.9	0.0

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Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code		SETFA	AMBTR	ABUTH	AMARE	IPOHE	
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Abutilon theop>	Amaranthus ret>	Ipomoea heder>	
Pest Name		Giant foxtail	Giant ragweed	Velvetleaf	Redroot pigweed	Ivyleaf mornin>	
Crop Code	ZEAMX						ZEAMX
BBCH Scale	BCOR						BCOR
Crop Scientific Name	Zea mays						Zea mays
Crop Name	Corn						Corn
Rating Date	6/27/11	6/27/11	6/27/11	6/27/11	6/27/11	6/27/11	7/5/11
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN
Rating Unit	%	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1	1
Days After First/Last Applic.	27 27	27 27	27 27	27 27	27 27	27 27	35 8
Trt-Eval Interval	27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A	27 DA-A	8 DA-B
Plant-Eval Interval	27 DP-1	27 DP-1	27 DP-1	27 DP-1	27 DP-1	27 DP-1	35 DP-1
Days After Emergence	21 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1	29 DE-1
Number of Decimals	0	0	0	0	0	0	0
Trt Treatment	Form Other Other	Appl					
No. Name	Conc Rate Rate Unit Code						
CV		1	2	3	4	5	6
Bartlett's X2		1	2	3	4	5	6
P(Bartlett's X2)		1	2	3	4	5	6
Replicate F		1	2	3	4	5	6
Replicate Prob(F)		1	2	3	4	5	6
Treatment F		1	2	3	4	5	6
Treatment Prob(F)		1	2	3	4	5	6

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	ABUTH	AMARE	IPOHE
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Abutilon theop>	Amaranthus ret>	Ipomoea heder>
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>	Velvetleaf	Redroot pigweed	Ivyleaf mornin>
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Rating Date	7/11/11	7/11/11	7/11/11	7/11/11	7/11/11	7/11/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	41 14	41 14	41 14	41 14	41 14	41 14
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Plant-Eval Interval	41 DP-1	41 DP-1	41 DP-1	41 DP-1	41 DP-1	41 DP-1
Days After Emergence	35 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	8	9	10	11	12	13
1	Lumax	3.94	2 qt/a		A	100	100	100	100	100	86
1	Touchdown Total	4.17	24 oz/a		B						
1	N-PAK AMS	100	1.5 qt/a		B						
2	Lexar	3.7	2.25 qt/a		A	100	100	100	100	100	86
2	Touchdown Total	4.17	24 oz/a		B						
2	N-PAK AMS	100	1.5 qt/a		B						
3	Corvus	2.63	3 oz/a		A	100	95	100	100	100	85
3	Atrazine	4	1 qt/a		A						
3	Touchdown Total	4.17	24 oz/a		B						
3	N-PAK AMS	100	1.5 qt/a		B						
4	Verdict	5.57	10 oz/a		A	100	95	100	98	100	87
4	Touchdown Total	4.17	24 oz/a		B						
4	N-PAK AMS	100	1.5 qt/a		B						
5	Surestart	4.25	1.75 pt/a		A	100	91	100	100	100	84
5	Durango DMA	4	24 oz/a		B						
5	N-PAK AMS	100	1.5 qt/a		B						
6	Fierce	76	2 oz/a		A	100	88	100	100	100	85
6	Touchdown Total	4.17	24 oz/a		B						
6	N-PAK AMS	100	1.5 qt/a		B						
7	Balance Flexx	2	3 oz/a		A	100	96	100	100	100	85
7	Atrazine	4	1 qt/a		A						
7	Touchdown Total	4.17	24 oz/a		B						
7	N-PAK AMS	100	1.5 qt/a		B						
8	Bicep II Magnum	5.5	1.4 qt/a		A	99	98	100	99	100	82
8	Touchdown Total	4.17	24 oz/a		B						
8	N-PAK AMS	100	1.5 qt/a		B						
9	Bicep II Magnum	5.5	1.4 qt/a		A	100	92	99	96	100	87
9	Halex GT	4.38	3.6 pt/a		B						
9	NIS	100	4.8 oz/a		B						
9	N-PAK AMS	100	1.5 qt/a		B						
10	Zidua	85	1.5 oz/a		A	100	90	100	100	100	84
10	Atrazine	4	1 qt/a		A						
10	Touchdown Total	4.17	24 oz/a		B						
10	N-PAK AMS	100	1.5 qt/a		B						
LSD (P=.05)						1.3	9.9	1.1	4.4	0.0	3.7
Standard Deviation						0.9	6.8	0.8	3.0	0.0	2.5

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	AMBTR	CHEAL	ABUTH	AMARE	IPOHE				
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Chenopodium album	Abitilon theophrasti	Amaranthus retrofractus	Ipomoea hederifolia				
Pest Name	Giant foxtail	Giant ragweed	Common lambsquarters	Velvetleaf	Redroot pigweed	Ivyleaf morningglory				
Crop Code										
BBCH Scale										
Crop Scientific Name										
Crop Name										
Rating Date	7/11/11	7/11/11	7/11/11	7/11/11	7/11/11	7/11/11				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Days After First/Last Applic.	41 14	41 14	41 14	41 14	41 14	41 14				
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B				
Plant-Eval Interval	41 DP-1	41 DP-1	41 DP-1	41 DP-1	41 DP-1	41 DP-1				
Days After Emergence	35 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1				
Number of Decimals	0	0	0	0	0	0				
Trt Treatment No. Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	8	9	10	11	12	13
CV					0.86	7.24	0.79	3.07	0.0	2.99
Bartlett's X2					2.193	13.316	0.0	3.024	0.0	12.33
P(Bartlett's X2)					0.139	0.101	.	0.22	.	0.09
Replicate F					0.751	1.464	1.000	0.450	0.000	1.976
Replicate Prob(F)					0.5314	0.2465	0.4079	0.7194	1.0000	0.1471
Treatment F					0.900	1.561	1.000	0.780	0.000	1.057
Treatment Prob(F)					0.5385	0.1777	0.4635	0.6362	1.0000	0.4299

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed					
Pest Code	SETFA	AMBTR	CHEAL	ABUTH	AMARE	IPOHE					
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Abutilon theop>	Amaranthus ret>	Ipomoea heder>					
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>	Velvetleaf	Redroot pigweed	Ivyleaf mornin>					
Crop Code											
BBCH Scale											
Crop Scientific Name											
Crop Name											
Rating Date	7/26/11	7/26/11	7/26/11	7/26/11	7/26/11	7/26/11					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%	%					
Number of Subsamples	1	1	1	1	1	1					
Days After First/Last Applic.	56 29	56 29	56 29	56 29	56 29	56 29					
Trt-Eval Interval	29 DA-B	29 DA-B	29 DA-B	29 DA-B	29 DA-B	29 DA-B					
Plant-Eval Interval	56 DP-1	56 DP-1	56 DP-1	56 DP-1	56 DP-1	56 DP-1					
Days After Emergence	50 DE-1	50 DE-1	50 DE-1	50 DE-1	50 DE-1	50 DE-1					
Number of Decimals	0	0	0	0	0	0					
Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	14	15	16	17	18	19
1	Lumax	3.94	2 qt/a		A	100	100	100	100	100	78
1	Touchdown Total	4.17	24 oz/a		B						
1	N-PAK AMS	100	1.5 qt/a		B						
2	Lexar	3.7	2.25 qt/a		A	98	95	100	100	100	91
2	Touchdown Total	4.17	24 oz/a		B						
2	N-PAK AMS	100	1.5 qt/a		B						
3	Corvus	2.63	3 oz/a		A	92	86	100	100	100	85
3	Atrazine	4	1 qt/a		A						
3	Touchdown Total	4.17	24 oz/a		B						
3	N-PAK AMS	100	1.5 qt/a		B						
4	Verdict	5.57	10 oz/a		A	97	86	100	100	100	83
4	Touchdown Total	4.17	24 oz/a		B						
4	N-PAK AMS	100	1.5 qt/a		B						
5	Surestart	4.25	1.75 pt/a		A	96	86	100	96	100	70
5	Durango DMA	4	24 oz/a		B						
5	N-PAK AMS	100	1.5 qt/a		B						
6	Fierce	76	2 oz/a		A	96	91	100	100	100	80
6	Touchdown Total	4.17	24 oz/a		B						
6	N-PAK AMS	100	1.5 qt/a		B						
7	Balance Flexx	2	3 oz/a		A	96	94	100	100	100	88
7	Atrazine	4	1 qt/a		A						
7	Touchdown Total	4.17	24 oz/a		B						
7	N-PAK AMS	100	1.5 qt/a		B						
8	Bicep II Magnum	5.5	1.4 qt/a		A	98	92	100	100	100	82
8	Touchdown Total	4.17	24 oz/a		B						
8	N-PAK AMS	100	1.5 qt/a		B						
9	Bicep II Magnum	5.5	1.4 qt/a		A	99	87	100	95	100	69
9	Halex GT	4.38	3.6 pt/a		B						
9	NIS	100	4.8 oz/a		B						
9	N-PAK AMS	100	1.5 qt/a		B						
10	Zidua	85	1.5 oz/a		A	99	92	100	99	100	80
10	Atrazine	4	1 qt/a		A						
10	Touchdown Total	4.17	24 oz/a		B						
10	N-PAK AMS	100	1.5 qt/a		B						
LSD (P=.05)						4.6	12.6	0.0	6.0	0.0	16.1
Standard Deviation						3.2	8.7	0.0	4.1	0.0	11.0

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed					
Pest Code	SETFA	AMBTR	CHEAL	ABUTH	AMARE	IPOHE					
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Abutilon theop>	Amaranthus ret>	Ipomoea heder>					
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>	Velvetleaf	Redroot pigweed	Ivyleaf mornin>					
Crop Code											
BBCH Scale											
Crop Scientific Name											
Crop Name											
Rating Date	8/19/11	8/19/11	8/19/11	8/19/11	8/19/11	8/19/11					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%	%					
Number of Subsamples	1	1	1	1	1	1					
Days After First/Last Applic.	80 53	80 53	80 53	80 53	80 53	80 53					
Trt-Eval Interval	53 DA-B	53 DA-B	53 DA-B	53 DA-B	53 DA-B	53 DA-B					
Plant-Eval Interval	80 DP-1	80 DP-1	80 DP-1	80 DP-1	80 DP-1	80 DP-1					
Days After Emergence	74 DE-1	74 DE-1	74 DE-1	74 DE-1	74 DE-1	74 DE-1					
Number of Decimals	0		0	0	0	0					
Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	20	21	22	23	24	25
1	Lumax	3.94	2 qt/a		A	100	100.0	100	100	100	96
1	Touchdown Total	4.17	24 oz/a		B						
1	N-PAK AMS	100	1.5 qt/a		B						
2	Lexar	3.7	2.25 qt/a		A	97	100.0	100	100	100	96
2	Touchdown Total	4.17	24 oz/a		B						
2	N-PAK AMS	100	1.5 qt/a		B						
3	Corvus	2.63	3 oz/a		A	90	97.5	100	100	100	94
3	Atrazine	4	1 qt/a		A						
3	Touchdown Total	4.17	24 oz/a		B						
3	N-PAK AMS	100	1.5 qt/a		B						
4	Verdict	5.57	10 oz/a		A	97	95.0	100	100	100	98
4	Touchdown Total	4.17	24 oz/a		B						
4	N-PAK AMS	100	1.5 qt/a		B						
5	Surestart	4.25	1.75 pt/a		A	97	95.0	100	100	100	85
5	Durango DMA	4	24 oz/a		B						
5	N-PAK AMS	100	1.5 qt/a		B						
6	Fierce	76	2 oz/a		A	91	82.3	100	100	100	83
6	Touchdown Total	4.17	24 oz/a		B						
6	N-PAK AMS	100	1.5 qt/a		B						
7	Balance Flexx	2	3 oz/a		A	95	97.5	100	100	100	88
7	Atrazine	4	1 qt/a		A						
7	Touchdown Total	4.17	24 oz/a		B						
7	N-PAK AMS	100	1.5 qt/a		B						
8	Bicep II Magnum	5.5	1.4 qt/a		A	96	91.3	100	95	100	94
8	Touchdown Total	4.17	24 oz/a		B						
8	N-PAK AMS	100	1.5 qt/a		B						
9	Bicep II Magnum	5.5	1.4 qt/a		A	99	91.0	100	100	100	85
9	Halex GT	4.38	3.6 pt/a		B						
9	NIS	100	4.8 oz/a		B						
9	N-PAK AMS	100	1.5 qt/a		B						
10	Zidua	85	1.5 oz/a		A	98	86.3	100	100	100	82
10	Atrazine	4	1 qt/a		A						
10	Touchdown Total	4.17	24 oz/a		B						
10	N-PAK AMS	100	1.5 qt/a		B						
LSD (P=.05)						5.6	10.12	0.0	4.6	0.0	12.4
Standard Deviation						3.9	6.98	0.0	3.2	0.0	8.4

Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed						
Pest Code	SETFA	AMBTR	CHEAL	ABUTH	AMARE	IPOHE						
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Chenopodium album	Abutilon theophrasti	Amaranthus retrofractus	Ipomoea hederacea						
Pest Name	Giant foxtail	Giant ragweed	Common lambsquarters	Velvetleaf	Redroot pigweed	Ivyleaf morning glory						
Crop Code												
BBCH Scale												
Crop Scientific Name												
Crop Name												
Rating Date	8/19/11	8/19/11	8/19/11	8/19/11	8/19/11	8/19/11						
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO						
Rating Unit	%	%	%	%	%	%						
Number of Subsamples	1	1	1	1	1	1						
Days After First/Last Applic.	80 53	80 53	80 53	80 53	80 53	80 53						
Trt-Eval Interval	53 DA-B	53 DA-B	53 DA-B	53 DA-B	53 DA-B	53 DA-B						
Plant-Eval Interval	80 DP-1	80 DP-1	80 DP-1	80 DP-1	80 DP-1	80 DP-1						
Days After Emergence	74 DE-1	74 DE-1	74 DE-1	74 DE-1	74 DE-1	74 DE-1						
Number of Decimals	0	0	0	0	0	0						
Trt	Treatment	Form	Other	Other	Appl							
No.	Name	Conc	Rate	Rate	Unit	Code	20	21	22	23	24	25
CV							4.02	7.45	0.0	3.18	0.0	9.37
Bartlett's X2							20.595	9.505	0.0	0.0	0.0	10.703
P(Bartlett's X2)							0.015*	0.218	.	.	.	0.297
Replicate F							1.833	2.238	0.000	1.000	0.000	4.228
Replicate Prob(F)							0.1650	0.1067	1.0000	0.4079	1.0000	0.0167
Treatment F							2.705	2.845	0.000	1.000	0.000	2.169
Treatment Prob(F)							0.0219	0.0171	1.0000	0.4635	1.0000	0.0669

Ohio State University Horticulture and Crop Science

Syngenta two pass programs in Roundup Ready Corn

Title No. 2:

Trial ID: 11SYN2PASS
Location: WESTERN BRANCH G-6
Project ID:

Protocol ID: 11SYN2PASS
Study Director: Anthony F. Dobbels
Investigator: Dr. Mark M. Loux
Sponsor Contact: Dain Bruns, Syngenta

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETFA, *Setaria faberi*, = US
AMBTR, *Ambrosia trifida*, = US
ABUTH, *Abutilon theophrasti*, = US
AMARE, *Amaranthus retroflexus*, = US
IPOHE, *Ipomoea hederacea*, = US
CHEAL, *Chenopodium album*, = US

Crop Code

ZEAMX, BCOR, *Zea mays*, = US

Rating Type

PHYGEN = phytotoxicity - general / injury
CONTRO = control / burndown or knockdown

Rating Unit

% = percent

Plant-Eval Interval

27 DP-1 = 1 5/31/11
35 DP-1 = 1 5/31/11
41 DP-1 = 1 5/31/11
56 DP-1 = 1 5/31/11
80 DP-1 = 1 5/31/11