

Ohio State University Horticulture and Crop Science

IGNITE EFFICACY WHEN MISSED PRE APPLICATION

Title No. 2:
 Trial ID: 10LLSOY1 Protocol ID: 10LLSOY1
 Location: Western Branch F-8 Study Director: Bryan Reeb
 Project ID: 10LLSOY1 Investigator: Dr. Mark M. Loux
 Sponsor Contact: DAVE LAMORE, BAYER

General Trial Information

Study Director: Bryan Reeb
Investigator: Dr. Mark M. Loux

Trial Location

City: South Charleston **Latitude of LL Corner** °: 39.86014 N USA 49.376656 - 24.53833
State/Prov.: Ohio **Longitude of LL Corner** °: -83.67097 W -124.715843 - -66.968887
Postal Code: 45368 **Altitude of LL Corner, Unit:** 1078.00 FT
Country: USA

Personnel

Study Director: Bryan Reeb
Investigator: Dr. Mark M. Loux

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: S.C. 3330 LL **Description:** LL
BBCH Scale: BSOY **Planting Date:** May-6-2010
Planting Method: SEEDED seeded **Rate, Unit:** 196000 S/A
Depth, Unit: 0.75 IN
Row Spacing, Unit: 15 IN
Seed Bed: MEDIUM medium
Soil Moisture: GOOD good **Emergence Date:** May-18-2010

Pest Description

Pest 1 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail

Pest 2 Type: W **Code:** AMARE Amaranthus retroflexus
Common Name: Redroot pigweed

Pest 3 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed

Pest 4 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters

Pest 5 Type: W **Code:** POLPY Polygonum pensylvanicum
Common Name: Pennsylvania smartweed

Pest 6 Type: W **Code:** HIBTR Hibiscus trionum
Common Name: Venice mallow

Pest 7 Type: W

Pest 8 Type: W

Pest 9 Type: W

Site and Design

Plot Width, Unit: 6.67 FT **Site Type:** FIELD field
Plot Length, Unit: 30 FT **Experimental Unit:** 1 PLOT plot
Plot Area, Unit: 200.1 FT2 **Tillage Type:** CONTIL conventional-till
Replications: 3 **Study Design:** RACOB� Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

Soil Description

Description Name: F-8 East
% OM: 2.4 **Texture:** SICL silty clay loam
pH: 6.2 **Soil Name:** Kokomo
CEC: 16 **Fert. Level:** G good
Soil Drainage: G good

Application Description

	A	B	C	D
Application Date:	May-6-2010	May-31-2010	Jun-17-2010	Jun-17-2010
Time of Day:	12:00 PM	10:00 AM	9:00 AM	9:00 AM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	V1	MPO 3"	MPO 3"
Application Placement:	BROFOL	BROFOL	BROFOL	BROFOL
Air Temperature, Unit:	62 F	78 F	75 F	75 F
% Relative Humidity:	58	72	72	72
Wind Velocity, Unit:	2.7 MPH	6 MPH	1 MPH	1 MPH
Wind Direction:	SW	ESE	NW	NW
Dew Presence (Y/N):	N no	N no	Y yes	Y yes
Soil Temperature, Unit:	60 F	74 F	70 F	70 F
Soil Moisture:	GOOD	DRY	WET	WET
% Cloud Cover:	2	15	0	0
Next Rain Occurred On:	May-8-2010	Jun-2-2010	Jun-19-2010	Jun-19-2010

Crop Stage At Each Application

	A		B		C		D	
Crop 1 Code, BBCH Scale:	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY
Stage Scale Used:			BBCH		BBCH		BBCH	
Stage Majority, Percent:			11	100	14	100	14	100
Height, Unit:			3	IN	11	IN	11	IN
Height Minimum, Maximum:					10	11	10	11

Pest Stage At Each Application

	A		B		C		D	
Pest 1 Code, Type, Scale:	SETFA	W	SETFA	W	SETFA	W	SETFA	W
Stage Majority, Percent:			13	100	13	100	14	100
Height, Unit:			3	IN	6	IN	14	IN
Height Minimum, Maximum:			2	4	5	6	12	14
Density, Unit:				34.4 M2				
Pest 2 Code, Type, Scale:	AMARE	W	AMARE	W	AMARE	W	AMARE	W
Stage Majority, Percent:			16	100			14	100
Height, Unit:			1.5	IN			9	IN
Height Minimum, Maximum:			0.5	2			8	9
Density, Unit:				2.4 M2				
Pest 3 Code, Type, Scale:	AMBTR	W	AMBTR	W	AMBTR	W	AMBTR	W
Stage Majority, Percent:			14	100	14	100	16	100
Height, Unit:			3.5	IN	4	IN	14	IN
Height Minimum, Maximum:			2	5	3	4	12	14
Density, Unit:				14.4 M2				
Pest 4 Code, Type, Scale:	CHEAL	W	CHEAL	W	CHEAL	W	CHEAL	W
Stage Majority, Percent:			16	100	14	100	16	100
Height, Unit:			1	IN	2	IN	4	IN
Height Minimum, Maximum:			0.5	1	1	2	3	4
Density, Unit:				37.2 M2				
Pest 5 Code, Type, Scale:	POLPY	W	POLPY	W	POLPY	W	POLPY	W
Stage Majority, Percent:			15	100			16	100
Height, Unit:			3	IN			6	IN
Height Minimum, Maximum:			2	3			5	6
Pest 6 Code, Type, Scale:	HIBTR	W	HIBTR	W	HIBTR	W	HIBTR	W
Stage Majority, Percent:			13	100				
Height, Unit:			0.5	IN				
Height Minimum, Maximum:			0.25	0.5				
Density, Unit:				2.4 M2				
W	W		W		W		W	
W	W		W		W		W	
W	W		W		W		W	

Application Equipment

	A	B	C	D
Appl. Equipment:	Backpack	Backpack	Backpack	Backpack
Equipment Type:	SPRBAC	SPRBAC	SPRBAC	SPRBAC
Operating Pressure, Unit:	52 PSI	52 PSI	52 PSI	52 PSI
Nozzle Type:	DG	DG	DG	DG
Nozzle Size:	8002	8002	8002	8002
Nozzle Spacing, Unit:	18 IN	18 IN	18 IN	18 IN
Boom Length, Unit:	6.67 FT	6.67 FT	6.67 FT	6.67 FT
Boom Height, Unit:	18 IN	18 IN	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER	WATER
Spray Volume, Unit:	20 gal/ac	20 gal/ac	20 gal/ac	20 gal/ac
Mix Size, Unit:	0.33 gallons	0.33 gallons	0.33 gallons	0.33 gallons
Propellant:	COMCO2	COMCO2	COMCO2	COMCO2

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Pest Type								
Pest Code								
Pest Scientific Name								
Pest Name								
Crop Code	GLXMA	GLXMA	GLXMA					
BBCH Scale	BSOY	BSOY	BSOY					
Crop Scientific Name	Glycine max	Glycine max	Glycine max					
Crop Name	Soybean	Soybean	Soybean					
Rating Date	Jun-7-2010	Jun-7-2010	Jun-14-2010	Jun-14-2010	Jun-14-2010			Jun-14-2010
Rating Type	PHYCHL	PHYLMA	PHYGEN	CONTROL	CONTROL			CONTROL
Rating Unit	%	%	%	%	%			%
Number of Subsamples	1	1	1	1	1			1
Days After First/Last Applic.	32 7	32 7	39 14	39 14	39 14			39 14
Plant-Eval Interval	32 DP-1	32 DP-1	39 DP-1	39 DP-1	39 DP-1			39 DP-1
Days After Emergence	20 DE-	20 DE-	27 DE-	27 DE-	27 DE-			27 DE-

Trt No.	Treatment Name	Other Rate	Other Unit	Appl Code	Plot	1	2	3	4	5	6
1	UTC				101	0.0	0.0	0.0	0.0	0.0	0.0
					211	0.0	0.0	0.0	0.0	0.0	
					306	0.0	0.0	0.0	0.0	0.0	
					Mean =	0.0	0.0	0.0	0.0	0.0	
2	Prefix Ignite N-pak ams	2 pt/a 22 oz/a 2 qt/a			A 102	0.0	0.0	0.0	88.0	60.0	80.0
					D 204	0.0	0.0	0.0	100.0	30.0	70.0
					D 310	0.0	0.0	0.0	100.0	30.0	80.0
					Mean =	0.0	0.0	0.0	96.0	40.0	76.7
3	Ignite N-pak ams	22 oz/a 2 qt/a			B 103	3.0	0.0	5.0	85.0	80.0	75.0
					B 207	0.0	0.0	2.0	90.0	70.0	60.0
					302	2.0	0.0	0.0	98.0	70.0	80.0
					Mean =	1.7	0.0	2.3	91.0	73.3	71.7
4	Ignite Prefix N-pak ams	22 oz/a 1 pt/a 2 qt/a			B 104	3.0	5.0	5.0	90.0	80.0	70.0
					B 201	3.0	15.0	2.0	98.0	75.0	50.0
					B 309	3.0	15.0	5.0	98.0	80.0	70.0
					Mean =	3.0	11.7	4.0	95.3	78.3	63.3
5	Ignite Dual II Magnum N-pak ams	22 oz/a 1.33 pt/a 2 qt/a			B 105	2.0	3.0	2.0	90.0	70.0	50.0
					B 212	3.0	5.0	8.0	95.0	75.0	60.0
					B 307	3.0	0.0	7.0	98.0	85.0	70.0
					Mean =	2.7	2.7	5.7	94.3	76.7	60.0
6	Prefix N-pak ams Ignite N-pak ams	1 pt/a 2 qt/a 22 oz/a 2 qt/a			B 106	0.0	10.0	5.0	70.0	50.0	70.0
					B 208	3.0	5.0	3.0	30.0	40.0	60.0
					C 311	0.0	15.0	5.0	40.0	60.0	50.0
					Mean =	1.0	10.0	4.3	46.7	50.0	60.0
7	Ignite MON 63410 N-pak ams	22 oz/a 48 oz/a 2 qt/a			B 107	3.0	0.0	2.0	98.0	75.0	65.0
					B 206	3.0	0.0	5.0	98.0	70.0	60.0
					B 303	0.0	0.0	0.0	90.0	70.0	70.0
					Mean =	2.0	0.0	2.3	95.3	71.7	65.0
8	Ignite KIH 485 N-pak ams	22 oz/a 4 oz/a 2 qt/a			B 108	3.0	10.0	5.0	95.0	80.0	75.0
					B 205	2.0	10.0	15.0	100.0	70.0	60.0
					B 312	2.0	15.0	5.0	98.0	85.0	80.0
					Mean =	2.3	11.7	8.3	97.7	78.3	71.7
9	Ignite Outlook N-pak ams	22 oz/a 16 oz/a 2 qt/a			B 109	3.0	5.0	2.0	98.0	75.0	70.0
					B 210	3.0	3.0	8.0	100.0	75.0	75.0
					B 305	2.0	0.0	5.0	98.0	75.0	77.0
					Mean =	2.7	2.7	5.0	98.7	75.0	74.0

Pest Type				W Weed	W Weed	W Weed
Pest Code				SETFA	AMBTR	CHEAL
Pest Scientific Name				Setaria faberi	Ambrosia trifi>	Chenopodium al>
Pest Name				Giant foxtail	Giant ragweed	Common lambsqu>
Crop Code	GLXMA	GLXMA	GLXMA			
BBCH Scale	BSOY	BSOY	BSOY			
Crop Scientific Name	Glycine max	Glycine max	Glycine max			
Crop Name	Soybean	Soybean	Soybean			
Rating Date	Jun-7-2010	Jun-7-2010	Jun-14-2010	Jun-14-2010	Jun-14-2010	Jun-14-2010
Rating Type	PHYCHL	PHYLMA	PHYGEN	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	32 7	32 7	39 14	39 14	39 14	39 14
Plant-Eval Interval	32 DP-1	32 DP-1	39 DP-1	39 DP-1	39 DP-1	39 DP-1
Days After Emergence	20 DE-	20 DE-	27 DE-	27 DE-	27 DE-	27 DE-

Trt	Treatment	Other	Other	Appl								
No.	Name	Rate	Rate	Unit	Code	Plot	1	2	3	4	5	6
10	Ignite	22 oz/a		B		110	5.0	10.0	10.0	95.0	75.0	70.0
	Synchrony XP @.375oz					203	3.0	10.0	10.0	95.0	80.0	75.0
	Classic	0.322 oz/a		B		308	3.0	10.0	12.0	98.0	80.0	100.0
	Harmony GT	0.052 oz/a		B								
	N-pak ams	2 qt/a		B								
						Mean =	3.7	10.0	10.7	96.0	78.3	81.7
11	Ignite	22 oz/a		B		111	3.0	0.0	0.0	90.0	90.0	60.0
	Firstrate	0.3 oz/a		B		202	3.0	0.0	2.0	95.0	85.0	70.0
	N-pak ams	2 qt/a		B		304	3.0	3.0	5.0	95.0	85.0	88.0
						Mean =	3.0	1.0	2.3	93.3	86.7	72.7
12	Ignite	22 oz/a		B		112	3.0	0.0	7.0	90.0	80.0	77.0
	Pursuit	4 oz/a		B		209	3.0	0.0	5.0	98.0	85.0	70.0
	N-pak ams	2 qt/a		B		301	2.0	2.0	10.0	100.0	80.0	80.0
						Mean =	2.7	0.7	7.3	96.0	81.7	75.7

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMARE	POLPY	HIBTR	ECHCG
Pest Scientific Name	Amaranthus ret>	Polygonum pens>	Hibiscus trion>	Echinochloa cr>
Pest Name	Redroot pigweed	Pennsylvania s>	Venice mallow	Common barnyar>
Crop Code				GLXMA
BBCH Scale				BSOY
Crop Scientific Name				Glycine max
Crop Name				Soybean
Rating Date	Jun-14-2010	Jun-14-2010	Jun-14-2010	Jun-14-2010 Jun-28-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL PHYGEN
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	39 14	39 14	39 14	39 14 53 11
Plant-Eval Interval	39 DP-1	39 DP-1	39 DP-1	39 DP-1 53 DP-1
Days After Emergence	27 DE-	27 DE-	27 DE-	27 DE- 41 DE-

Trt	Treatment	Other	Other	Appl		7	8	9	10	11
No.	Name	Rate	Rate	Unit Code	Plot					
1	UTC				101	0.0	0.0	0.0	0.0	0.0
					211	0.0	0.0	0.0	0.0	0.0
					306	0.0	0.0	0.0	0.0	0.0
					Mean =	0.0	0.0	0.0	0.0	0.0
2	Prefix	2 pt/a		A	102	100.0	100.0	95.0	98.0	0.0
	Ignite	22 oz/a		D	204	100.0	100.0	100.0	98.0	0.0
	N-pak ams	2 qt/a		D	310	100.0	100.0	80.0	98.0	0.0
					Mean =	100.0	100.0	91.7	98.0	0.0
3	Ignite	22 oz/a		B	103	100.0	100.0	100.0	60.0	0.0
	N-pak ams	2 qt/a		B	207	80.0	100.0	100.0	70.0	0.0
					302	100.0	100.0	100.0	70.0	0.0
					Mean =	93.3	100.0	100.0	66.7	0.0
4	Ignite	22 oz/a		B	104	100.0	100.0	100.0	90.0	0.0
	Prefix	1 pt/a		B	201	100.0	100.0	100.0	75.0	0.0
	N-pak ams	2 qt/a		B	309	100.0	100.0	100.0	75.0	0.0
					Mean =	100.0	100.0	100.0	80.0	0.0
5	Ignite	22 oz/a		B	105	100.0	100.0	100.0	90.0	0.0
	Dual II Magnum	1.33 pt/a		B	212	100.0	100.0	100.0	90.0	0.0
	N-pak ams	2 qt/a		B	307	100.0	100.0	100.0	75.0	0.0
					Mean =	100.0	100.0	100.0	85.0	0.0
6	Prefix	1 pt/a		B	106	100.0	100.0	98.0	75.0	0.0
	N-pak ams	2 qt/a		B	208	100.0	100.0	100.0	50.0	0.0
	Ignite	22 oz/a		C	311	100.0	100.0	100.0	50.0	0.0
	N-pak ams	2 qt/a		C						
					Mean =	100.0	100.0	99.3	58.3	0.0
7	Ignite	22 oz/a		B	107	100.0	100.0	95.0	98.0	0.0
	MON 63410	48 oz/a		B	206	100.0	100.0	100.0	60.0	0.0
	N-pak ams	2 qt/a		B	303	100.0	100.0	100.0	70.0	0.0
					Mean =	100.0	100.0	98.3	76.0	0.0
8	Ignite	22 oz/a		B	108	100.0	100.0	100.0	98.0	0.0
	KIH 485	4 oz/a		B	205	100.0	100.0	100.0	80.0	0.0
	N-pak ams	2 qt/a		B	312	100.0	100.0	100.0	80.0	0.0
					Mean =	100.0	100.0	100.0	86.0	0.0
9	Ignite	22 oz/a		B	109	100.0	100.0	100.0	90.0	0.0
	Outlook	16 oz/a		B	210	100.0	100.0	100.0	80.0	0.0
	N-pak ams	2 qt/a		B	305	100.0	100.0	100.0	80.0	0.0
					Mean =	100.0	100.0	100.0	83.3	0.0

Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	AMARE	POLPY	HIBTR	ECHCG				
Pest Scientific Name	Amaranthus ret>	Polygonum pens>	Hibiscus trion>	Echinochloa cr>				
Pest Name	Redroot pigweed	Pennsylvania s>	Venice mallow	Common barnyar>				
Crop Code					GLXMA			
BBCH Scale					BSOY			
Crop Scientific Name					Glycine max			
Crop Name					Soybean			
Rating Date	Jun-14-2010	Jun-14-2010	Jun-14-2010	Jun-14-2010	Jun-28-2010			
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	PHYGEN			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	39 14	39 14	39 14	39 14	53 11			
Plant-Eval Interval	39 DP-1	39 DP-1	39 DP-1	39 DP-1	53 DP-1			
Days After Emergence	27 DE-	27 DE-	27 DE-	27 DE-	41 DE-			
Trt Treatment	Other	Other	Appl					
No. Name	Rate	Rate	Unit Code Plot	7	8			
				9	10			
				11				
10 Ignite	22 oz/a		B 110	100.0	100.0	100.0	60.0	0.0
Synchrony XP @.375oz			203	100.0	100.0	100.0	70.0	0.0
Classic	0.322 oz/a		B 308	100.0	100.0	100.0	70.0	0.0
Harmony GT	0.052 oz/a		B					
N-pak ams	2 qt/a		B					
			Mean =	100.0	100.0	100.0	66.7	0.0
11 Ignite	22 oz/a		B 111	100.0	100.0	100.0	70.0	0.0
Firstrate	0.3 oz/a		B 202	100.0	100.0	100.0	70.0	0.0
N-pak ams	2 qt/a		B 304	100.0	100.0	100.0	70.0	0.0
			Mean =	100.0	100.0	100.0	70.0	0.0
12 Ignite	22 oz/a		B 112	100.0	100.0	100.0	85.0	0.0
Pursuit	4 oz/a		B 209	100.0	100.0	100.0	97.0	0.0
N-pak ams	2 qt/a		B 301	100.0	100.0	100.0	90.0	0.0
			Mean =	100.0	100.0	100.0	90.7	0.0

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	AMARE	POLPY
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>	Polygonum pens>
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>	Redroot pigweed	Pennsylvania s>
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jun-28-2010	Jun-28-2010	Jun-28-2010	Jun-28-2010	Jun-28-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	53 11	53 11	53 11	53 11	53 11
Plant-Eval Interval	53 DP-1	53 DP-1	53 DP-1	53 DP-1	53 DP-1
Days After Emergence	41 DE-	41 DE-	41 DE-	41 DE-	41 DE-

Trt	Treatment	Other	Other	Appl		12	13	14	15	16
No.	Name	Rate	Rate	Unit Code	Plot					
1	UTC				101	0.0	0.0	0.0	0.0	0.0
					211	0.0	0.0	0.0	0.0	0.0
					306	0.0	0.0	0.0	0.0	0.0
					Mean =	0.0	0.0	0.0	0.0	0.0
2	Prefix	2 pt/a		A	102	98.0	100.0	98.0	100.0	100.0
	Ignite	22 oz/a		D	204	100.0	100.0	95.0	100.0	100.0
	N-pak ams	2 qt/a		D	310	100.0	100.0	95.0	100.0	100.0
					Mean =	99.3	100.0	96.0	100.0	100.0
3	Ignite	22 oz/a		B	103	75.0	50.0	60.0	95.0	95.0
	N-pak ams	2 qt/a		B	207	85.0	50.0	65.0	100.0	100.0
					302	85.0	50.0	70.0	100.0	100.0
					Mean =	81.7	50.0	65.0	98.3	98.3
4	Ignite	22 oz/a		B	104	90.0	60.0	65.0	95.0	100.0
	Prefix	1 pt/a		B	201	90.0	65.0	55.0	100.0	100.0
	N-pak ams	2 qt/a		B	309	95.0	70.0	65.0	100.0	100.0
					Mean =	91.7	65.0	61.7	98.3	100.0
5	Ignite	22 oz/a		B	105	95.0	50.0	60.0	100.0	100.0
	Dual II Magnum	1.33 pt/a		B	212	95.0	70.0	70.0	100.0	100.0
	N-pak ams	2 qt/a		B	307	95.0	65.0	70.0	98.0	100.0
					Mean =	95.0	61.7	66.7	99.3	100.0
6	Prefix	1 pt/a		B	106	100.0	100.0	90.0	100.0	100.0
	N-pak ams	2 qt/a		B	208	100.0	100.0	95.0	100.0	100.0
	Ignite	22 oz/a		C	311	98.0	100.0	90.0	100.0	100.0
	N-pak ams	2 qt/a		C						
					Mean =	99.3	100.0	91.7	100.0	100.0
7	Ignite	22 oz/a		B	107	90.0	50.0	60.0	100.0	100.0
	MON 63410	48 oz/a		B	206	90.0	50.0	60.0	100.0	100.0
	N-pak ams	2 qt/a		B	303	90.0	55.0	65.0	100.0	100.0
					Mean =	90.0	51.7	61.7	100.0	100.0
8	Ignite	22 oz/a		B	108	95.0	65.0	65.0	100.0	100.0
	KIH 485	4 oz/a		B	205	95.0	50.0	65.0	100.0	100.0
	N-pak ams	2 qt/a		B	312	98.0	70.0	75.0	100.0	100.0
					Mean =	96.0	61.7	68.3	100.0	100.0
9	Ignite	22 oz/a		B	109	95.0	50.0	60.0	100.0	100.0
	Outlook	16 oz/a		B	210	95.0	60.0	75.0	100.0	100.0
	N-pak ams	2 qt/a		B	305	95.0	65.0	70.0	100.0	100.0
					Mean =	95.0	58.3	68.3	100.0	100.0

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	AMBTR	CHEAL	AMARE	POLPY			
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>	Polygonum pens>			
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>	Redroot pigweed	Pennsylvania s>			
Crop Code								
BBCH Scale								
Crop Scientific Name								
Crop Name								
Rating Date	Jun-28-2010	Jun-28-2010	Jun-28-2010	Jun-28-2010	Jun-28-2010			
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	53 11	53 11	53 11	53 11	53 11			
Plant-Eval Interval	53 DP-1	53 DP-1	53 DP-1	53 DP-1	53 DP-1			
Days After Emergence	41 DE-	41 DE-	41 DE-	41 DE-	41 DE-			
Trt Treatment	Other	Other	Appl					
No. Name	Rate	Rate	Unit Code Plot	12	13	14	15	16
10 Ignite	22 oz/a		B 110	98.0	60.0	65.0	100.0	100.0
Synchrony XP @.375oz			203	90.0	75.0	70.0	100.0	100.0
Classic	0.322 oz/a		B 308	95.0	60.0	75.0	100.0	100.0
Harmony GT	0.052 oz/a		B					
N-pak ams	2 qt/a		B					
			Mean =	94.3	65.0	70.0	100.0	100.0
11 Ignite	22 oz/a		B 111	90.0	80.0	70.0	100.0	100.0
Firstrate	0.3 oz/a		B 202	95.0	75.0	70.0	100.0	100.0
N-pak ams	2 qt/a		B 304	95.0	77.0	75.0	100.0	100.0
			Mean =	93.3	77.3	71.7	100.0	100.0
12 Ignite	22 oz/a		B 112	95.0	75.0	65.0	100.0	100.0
Pursuit	4 oz/a		B 209	98.0	70.0	75.0	100.0	100.0
N-pak ams	2 qt/a		B 301	90.0	70.0	70.0	100.0	100.0
			Mean =	94.3	71.7	70.0	100.0	100.0

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	HIBTR	ECHCG	SETFA	ECHCG	AMBTR
Pest Scientific Name	Hibiscus trion>	Echinochloa cr>	Setaria faberi	Echinochloa cr>	Ambrosia trifi>
Pest Name	Venice mallow	Common barnyar>	Giant foxtail	Common barnyar>	Giant ragweed
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jun-28-2010	Jun-28-2010	Jul-12-2010	Jul-12-2010	Jul-12-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	53 11	53 11	67 25	67 25	67 25
Plant-Eval Interval	53 DP-1	53 DP-1	67 DP-1	67 DP-1	67 DP-1
Days After Emergence	41 DE-	41 DE-	55 DE-	55 DE-	55 DE-

Trt	Treatment	Other	Other	Appl		17	18	19	20	21
No.	Name	Rate	Rate	Unit Code	Plot					
1	UTC				101	0.0	0.0	0.0	0.0	0.0
					211	0.0	0.0	0.0	0.0	0.0
					306	0.0	0.0	0.0	0.0	0.0
					Mean =	0.0	0.0	0.0	0.0	0.0
2	Prefix	2 pt/a		A	102	100.0	85.0	100.0	100.0	95.0
	Ignite	22 oz/a		D	204	100.0	90.0	100.0	100.0	100.0
	N-pak ams	2 qt/a		D	310	100.0	95.0	100.0	100.0	100.0
					Mean =	100.0	90.0	100.0	100.0	98.3
3	Ignite	22 oz/a		B	103	98.0	50.0	98.0	90.0	60.0
	N-pak ams	2 qt/a		B	207	100.0	70.0	100.0	90.0	40.0
					302	100.0	70.0	100.0	95.0	40.0
					Mean =	99.3	63.3	99.3	91.7	46.7
4	Ignite	22 oz/a		B	104	100.0	75.0	95.0	90.0	70.0
	Prefix	1 pt/a		B	201	100.0	70.0	95.0	95.0	60.0
	N-pak ams	2 qt/a		B	309	100.0	70.0	100.0	88.0	70.0
					Mean =	100.0	71.7	96.7	91.0	66.7
5	Ignite	22 oz/a		B	105	100.0	75.0	100.0	95.0	50.0
	Dual II Magnum	1.33 pt/a		B	212	100.0	75.0	100.0	98.0	50.0
	N-pak ams	2 qt/a		B	307	98.0	75.0	100.0	95.0	50.0
					Mean =	99.3	75.0	100.0	96.0	50.0
6	Prefix	1 pt/a		B	106	100.0	85.0	95.0	100.0	100.0
	N-pak ams	2 qt/a		B	208	100.0	90.0	100.0	98.0	95.0
	Ignite	22 oz/a		C	311	100.0	85.0	100.0	98.0	95.0
	N-pak ams	2 qt/a		C						
					Mean =	100.0	86.7	98.3	98.7	96.7
7	Ignite	22 oz/a		B	107	100.0	75.0	98.0	90.0	50.0
	MON 63410	48 oz/a		B	206	100.0	65.0	98.0	90.0	40.0
	N-pak ams	2 qt/a		B	303	100.0	70.0	98.0	85.0	50.0
					Mean =	100.0	70.0	98.0	88.3	46.7
8	Ignite	22 oz/a		B	108	100.0	80.0	100.0	100.0	60.0
	KIH 485	4 oz/a		B	205	100.0	75.0	100.0	98.0	50.0
	N-pak ams	2 qt/a		B	312	100.0	75.0	100.0	98.0	60.0
					Mean =	100.0	76.7	100.0	98.7	56.7
9	Ignite	22 oz/a		B	109	100.0	75.0	100.0	95.0	50.0
	Outlook	16 oz/a		B	210	100.0	75.0	100.0	98.0	50.0
	N-pak ams	2 qt/a		B	305	100.0	75.0	98.0	95.0	50.0
					Mean =	100.0	75.0	99.3	96.0	50.0

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	HIBTR	ECHCG	SETFA	ECHCG	AMBTR
Pest Scientific Name	Hibiscus trion>	Echinochloa cr>	Setaria faberi	Echinochloa cr>	Ambrosia trifi>
Pest Name	Venice mallow	Common barnyar>	Giant foxtail	Common barnyar>	Giant ragweed
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jun-28-2010	Jun-28-2010	Jul-12-2010	Jul-12-2010	Jul-12-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	53 11	53 11	67 25	67 25	67 25
Plant-Eval Interval	53 DP-1	53 DP-1	67 DP-1	67 DP-1	67 DP-1
Days After Emergence	41 DE-	41 DE-	55 DE-	55 DE-	55 DE-

Trt	Treatment	Other	Other	Appl							
No.	Name	Rate	Rate	Unit	Code	Plot	17	18	19	20	21
10	Ignite	22 oz/a		B		110	100.0	70.0	98.0	85.0	70.0
	Synchrony XP @.375oz					203	100.0	70.0	98.0	90.0	70.0
	Classic	0.322 oz/a		B		308	100.0	60.0	95.0	80.0	50.0
	Harmony GT	0.052 oz/a		B							
	N-pak ams	2 qt/a		B							
						Mean =	100.0	66.7	97.0	85.0	63.3
11	Ignite	22 oz/a		B		111	100.0	75.0	98.0	90.0	88.0
	Firstrate	0.3 oz/a		B		202	100.0	70.0	100.0	95.0	75.0
	N-pak ams	2 qt/a		B		304	100.0	70.0	100.0	90.0	75.0
						Mean =	100.0	71.7	99.3	91.7	79.3
12	Ignite	22 oz/a		B		112	100.0	75.0	100.0	98.0	70.0
	Pursuit	4 oz/a		B		209	100.0	75.0	100.0	98.0	70.0
	N-pak ams	2 qt/a		B		301	100.0	70.0	100.0	100.0	70.0
						Mean =	100.0	73.3	100.0	98.7	70.0

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMARE	CHEAL	POLPY	HIBTR
Pest Scientific Name	Amaranthus ret>	Chenopodium al>	Polygonum pens>	Hibiscus trion>
Pest Name	Redroot pigweed	Common lambsqu>	Pennsylvania s>	Venice mallow
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jul-12-2010	Jul-12-2010	Jul-12-2010	Jul-12-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	67 25	67 25	67 25	67 25
Plant-Eval Interval	67 DP-1	67 DP-1	67 DP-1	67 DP-1
Days After Emergence	55 DE-	55 DE-	55 DE-	55 DE-

Trt	Treatment	Other	Other	Appl		22	23	24	25
No.	Name	Rate	Rate	Unit Code	Plot				
1	UTC				101	0.0	0.0	0.0	0.0
					211	0.0	0.0	0.0	0.0
					306	0.0	0.0	0.0	0.0
					Mean =	0.0	0.0	0.0	0.0
2	Prefix	2 pt/a		A	102	95.0	100.0	100.0	100.0
	Ignite	22 oz/a		D	204	100.0	100.0	100.0	100.0
	N-pak ams	2 qt/a		D	310	100.0	100.0	100.0	100.0
					Mean =	98.3	100.0	100.0	100.0
3	Ignite	22 oz/a		B	103	100.0	100.0	100.0	100.0
	N-pak ams	2 qt/a		B	207	100.0	100.0	100.0	100.0
					302	100.0	100.0	100.0	100.0
					Mean =	100.0	100.0	100.0	100.0
4	Ignite	22 oz/a		B	104	100.0	100.0	100.0	100.0
	Prefix	1 pt/a		B	201	100.0	100.0	100.0	100.0
	N-pak ams	2 qt/a		B	309	100.0	100.0	100.0	100.0
					Mean =	100.0	100.0	100.0	100.0
5	Ignite	22 oz/a		B	105	100.0	100.0	100.0	100.0
	Dual II Magnum	1.33 pt/a		B	212	100.0	100.0	100.0	100.0
	N-pak ams	2 qt/a		B	307	100.0	100.0	100.0	100.0
					Mean =	100.0	100.0	100.0	100.0
6	Prefix	1 pt/a		B	106	100.0	100.0	100.0	100.0
	N-pak ams	2 qt/a		B	208	100.0	100.0	100.0	100.0
	Ignite	22 oz/a		C	311	100.0	100.0	100.0	100.0
	N-pak ams	2 qt/a		C					
					Mean =	100.0	100.0	100.0	100.0
7	Ignite	22 oz/a		B	107	100.0	100.0	100.0	100.0
	MON 63410	48 oz/a		B	206	100.0	100.0	100.0	100.0
	N-pak ams	2 qt/a		B	303	100.0	100.0	100.0	100.0
					Mean =	100.0	100.0	100.0	100.0
8	Ignite	22 oz/a		B	108	100.0	100.0	100.0	100.0
	KIH 485	4 oz/a		B	205	100.0	100.0	100.0	100.0
	N-pak ams	2 qt/a		B	312	100.0	100.0	100.0	100.0
					Mean =	100.0	100.0	100.0	100.0
9	Ignite	22 oz/a		B	109	100.0	100.0	100.0	100.0
	Outlook	16 oz/a		B	210	100.0	100.0	100.0	100.0
	N-pak ams	2 qt/a		B	305	100.0	100.0	100.0	100.0
					Mean =	100.0	100.0	100.0	100.0

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMARE	CHEAL	POLPY	HIBTR
Pest Scientific Name	Amaranthus ret>	Chenopodium al>	Polygonum pens>	Hibiscus trion>
Pest Name	Redroot pigweed	Common lambsqu>	Pennsylvania s>	Venice mallow
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	Jul-12-2010	Jul-12-2010	Jul-12-2010	Jul-12-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	67 25	67 25	67 25	67 25
Plant-Eval Interval	67 DP-1	67 DP-1	67 DP-1	67 DP-1
Days After Emergence	55 DE-	55 DE-	55 DE-	55 DE-

Trt	Treatment	Other	Other	Appl						
No.	Name	Rate	Rate	Unit	Code	Plot	22	23	24	25
10	Ignite	22 oz/a		B		110	100.0	100.0	100.0	100.0
	Synchrony XP @.375oz					203	100.0	100.0	100.0	100.0
	Classic	0.322 oz/a		B		308	100.0	100.0	100.0	100.0
	Harmony GT	0.052 oz/a		B						
	N-pak ams	2 qt/a		B						
						Mean =	100.0	100.0	100.0	100.0
11	Ignite	22 oz/a		B		111	100.0	95.0	100.0	100.0
	Firstrate	0.3 oz/a		B		202	100.0	100.0	100.0	100.0
	N-pak ams	2 qt/a		B		304	100.0	100.0	100.0	100.0
						Mean =	100.0	98.3	100.0	100.0
12	Ignite	22 oz/a		B		112	100.0	100.0	100.0	100.0
	Pursuit	4 oz/a		B		209	100.0	100.0	100.0	100.0
	N-pak ams	2 qt/a		B		301	100.0	100.0	100.0	100.0
						Mean =	100.0	100.0	100.0	100.0

Ohio State University Horticulture and Crop Science

IGNITE EFFICACY WHEN MISSED PRE APPLICATION

Title No. 2:

Trial ID: 10LLSOY1 Protocol ID: 10LLSOY1
Location: Western Branch F-8 Study Director: Bryan Reeb
Project ID: 10LLSOY1 Investigator: Dr. Mark M. Loux
Sponsor Contact: DAVE LAMORE, BAYER

Pest Type

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

Pest Code

SETFA, Setaria faberi, = US
AMBTR, Ambrosia trifida, = US
CHEAL, Chenopodium album, = US
AMARE, Amaranthus retroflexus, = US
POLPY, Polygonum pensylvanicum, = US
HIBTR, Hibiscus trionum, = US
ECHCG, Echinochloa crus-galli, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

PHYCHL = phytotoxicity - chlorosis
PHYLMA = phytotoxicity - leaf malformation
PHYGEN = phytotoxicity - general / injury

Rating Unit

% = percent

Plant-Eval Interval

32 DP-1 = 1 May-6-2010
39 DP-1 = 1 May-6-2010
53 DP-1 = 1 May-6-2010
67 DP-1 = 1 May-6-2010

Ohio State University Horticulture and Crop Science

IGNITE EFFICACY WHEN MISSED PRE APPLICATION

Title No. 2:
 Trial ID: 10LLSOY1 Protocol ID: 10LLSOY1
 Location: Western Branch F-8 Study Director: Bryan Reeb
 Project ID: 10LLSOY1 Investigator: Dr. Mark M. Loux
 Sponsor Contact: DAVE LAMORE, BAYER

Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>

Crop Code	GLXMA	GLXMA	GLXMA			
BBCH Scale	BSOY	BSOY	BSOY			
Crop Scientific Name	Glycine max	Glycine max	Glycine max			
Crop Name	Soybean	Soybean	Soybean			
Rating Date	Jun-7-2010	Jun-7-2010	Jun-14-2010	Jun-14-2010	Jun-14-2010	Jun-14-2010
Rating Type	PHYCHL	PHYLMA	PHYGEN	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	32 7	32 7	39 14	39 14	39 14	39 14
Plant-Eval Interval	32 DP-1	32 DP-1	39 DP-1	39 DP-1	39 DP-1	39 DP-1
Days After Emergence	20 DE-	20 DE-	27 DE-	27 DE-	27 DE-	27 DE-

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	1	2	3	4	5	6
1	UTC				0.0 b	0.0 b	0.0 c	0.0 c	0.0 c	0.0 b
2	Prefix	2 pt/a		A	0.0 b	0.0 b	0.0 c	96.0 a	40.0 b	76.7 a
	Ignite	22 oz/a		D						
	N-pak ams	2 qt/a		D						
3	Ignite	22 oz/a		B	1.7 ab	0.0 b	2.3 bc	91.0 a	73.3 a	71.7 a
	N-pak ams	2 qt/a		B						
4	Ignite	22 oz/a		B	3.0 a	11.7 a	4.0 abc	95.3 a	78.3 a	63.3 a
	Prefix	1 pt/a		B						
	N-pak ams	2 qt/a		B						
5	Ignite	22 oz/a		B	2.7 a	2.7 b	5.7 abc	94.3 a	76.7 a	60.0 a
	Dual II Magnum	1.33 pt/a		B						
	N-pak ams	2 qt/a		B						
6	Prefix	1 pt/a		B	1.0 ab	10.0 a	4.3 abc	46.7 b	50.0 b	60.0 a
	N-pak ams	2 qt/a		B						
	Ignite	22 oz/a		C						
	N-pak ams	2 qt/a		C						
7	Ignite	22 oz/a		B	2.0 ab	0.0 b	2.3 bc	95.3 a	71.7 a	65.0 a
	MON 63410	48 oz/a		B						
	N-pak ams	2 qt/a		B						
8	Ignite	22 oz/a		B	2.3 ab	11.7 a	8.3 ab	97.7 a	78.3 a	71.7 a
	KIH 485	4 oz/a		B						
	N-pak ams	2 qt/a		B						
9	Ignite	22 oz/a		B	2.7 a	2.7 b	5.0 abc	98.7 a	75.0 a	74.0 a
	Outlook	16 oz/a		B						
	N-pak ams	2 qt/a		B						
10	Ignite	22 oz/a		B	3.7 a	10.0 a	10.7 a	96.0 a	78.3 a	81.7 a
	Synchrony XP @.375oz									
	Classic	0.322 oz/a		B						
	Harmony GT	0.052 oz/a		B						
	N-pak ams	2 qt/a		B						
11	Ignite	22 oz/a		B	3.0 a	1.0 b	2.3 bc	93.3 a	86.7 a	72.7 a
	Firstrate	0.3 oz/a		B						
	N-pak ams	2 qt/a		B						
12	Ignite	22 oz/a		B	2.7 a	0.7 b	7.3 abc	96.0 a	81.7 a	75.7 a
	Pursuit	4 oz/a		B						
	N-pak ams	2 qt/a		B						
	LSD (P=.05)				1.58	4.49	4.49	12.70	11.54	13.71
	Standard Deviation				0.93	2.65	2.65	7.50	6.81	8.10
	CV				45.34	63.2	60.85	8.99	10.35	12.58
	Bartlett's X2				6.508	6.287	7.29	22.978	14.513	6.662
	P(Bartlett's X2)				0.482	0.392	0.607	0.011*	0.105	0.757
	Replicate F				1.663	0.905	0.880	0.215	1.751	5.895
	Replicate Prob(F)				0.2126	0.4190	0.4291	0.8078	0.1969	0.0089
	Treatment F				4.802	10.741	4.530	47.452	39.363	20.927
	Treatment Prob(F)				0.0009	0.0001	0.0013	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMARE	POLPY	HIBTR	ECHCG	SETFA
Pest Scientific Name	Amaranthus ret>	Polygonum pens>	Hibiscus trion>	Echinochloa cr>	Setaria faberi
Pest Name	Redroot pigweed	Pennsylvania s>	Venice mallow	Common barnyar>	Giant foxtail

Crop Code					GLXMA	
BBCH Scale					BSOY	
Crop Scientific Name					Glycine max	
Crop Name					Soybean	
Rating Date	Jun-14-2010	Jun-14-2010	Jun-14-2010	Jun-14-2010	Jun-28-2010	Jun-28-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	PHYGEN	CONTROL
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	39 14	39 14	39 14	39 14	53 11	53 11
Plant-Eval Interval	39 DP-1	39 DP-1	39 DP-1	39 DP-1	53 DP-1	53 DP-1
Days After Emergence	27 DE-	27 DE-	27 DE-	27 DE-	41 DE-	41 DE-

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	7	8	9	10	11	12
1	UTC				0.0 b	0.0 b	0.0 b	0.0 d	0.0 a	0.0 d
2	Prefix	2 pt/a		A	100.0 a	100.0 a	91.7 a	98.0 a	0.0 a	99.3 a
	Ignite	22 oz/a		D						
	N-pak ams	2 qt/a		D						
3	Ignite	22 oz/a		B	93.3 a	100.0 a	100.0 a	66.7 bc	0.0 a	81.7 c
	N-pak ams	2 qt/a		B						
4	Ignite	22 oz/a		B	100.0 a	100.0 a	100.0 a	80.0 abc	0.0 a	91.7 ab
	Prefix	1 pt/a		B						
	N-pak ams	2 qt/a		B						
5	Ignite	22 oz/a		B	100.0 a	100.0 a	100.0 a	85.0 ab	0.0 a	95.0 ab
	Dual II Magnum	1.33 pt/a		B						
	N-pak ams	2 qt/a		B						
6	Prefix	1 pt/a		B	100.0 a	100.0 a	99.3 a	58.3 c	0.0 a	99.3 a
	N-pak ams	2 qt/a		B						
	Ignite	22 oz/a		C						
	N-pak ams	2 qt/a		C						
7	Ignite	22 oz/a		B	100.0 a	100.0 a	98.3 a	76.0 abc	0.0 a	90.0 b
	MON 63410	48 oz/a		B						
	N-pak ams	2 qt/a		B						
8	Ignite	22 oz/a		B	100.0 a	100.0 a	100.0 a	86.0 ab	0.0 a	96.0 ab
	KIH 485	4 oz/a		B						
	N-pak ams	2 qt/a		B						
9	Ignite	22 oz/a		B	100.0 a	100.0 a	100.0 a	83.3 ab	0.0 a	95.0 ab
	Outlook	16 oz/a		B						
	N-pak ams	2 qt/a		B						
10	Ignite	22 oz/a		B	100.0 a	100.0 a	100.0 a	66.7 bc	0.0 a	94.3 ab
	Synchrony XP @.375oz									
	Classic	0.322 oz/a		B						
	Harmony GT	0.052 oz/a		B						
	N-pak ams	2 qt/a		B						
11	Ignite	22 oz/a		B	100.0 a	100.0 a	100.0 a	70.0 bc	0.0 a	93.3 ab
	Firstrate	0.3 oz/a		B						
	N-pak ams	2 qt/a		B						
12	Ignite	22 oz/a		B	100.0 a	100.0 a	100.0 a	90.7 ab	0.0 a	94.3 ab
	Pursuit	4 oz/a		B						
	N-pak ams	2 qt/a		B						
	LSD (P=.05)				5.64	0.00	5.34	14.53	0.00	4.65
	Standard Deviation				3.33	0.00	3.16	8.58	0.00	2.75
	CV				3.66	0.0	3.48	11.96	0.0	3.2
	Bartlett's X2				0.0	0.0	7.566	6.374	0.0	7.583
	P(Bartlett's X2)				.	.	0.023*	0.605	.	0.371
	Replicate F				1.000	0.000	0.848	2.455	0.000	0.695
	Replicate Prob(F)				0.3840	1.0000	0.4419	0.1090	1.0000	0.5097
	Treatment F				223.273	0.000	247.876	26.036	0.000	298.716
	Treatment Prob(F)				0.0001	1.0000	0.0001	0.0001	1.0000	0.0001

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	AMBTR	CHEAL	AMARE	POLPY	HIBTR		
Pest Scientific Name	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>	Polygonum pens>	Hibiscus trion>		
Pest Name	Giant ragweed	Common lambsqu>	Redroot pigweed	Pennsylvania s>	Venice mallow		
Crop Code							
BBCH Scale							
Crop Scientific Name							
Crop Name							
Rating Date	Jun-28-2010	Jun-28-2010	Jun-28-2010	Jun-28-2010	Jun-28-2010		
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1		
Days After First/Last Applic.	53 11	53 11	53 11	53 11	53 11		
Plant-Eval Interval	53 DP-1	53 DP-1	53 DP-1	53 DP-1	53 DP-1		
Days After Emergence	41 DE-	41 DE-	41 DE-	41 DE-	41 DE-		
Trt No.							
Treatment Name							
Other Rate							
Other Rate							
Appl Unit Code							
	13	14	15	16	17		
1 UTC			0.0 e	0.0 c	0.0 b	0.0 b	0.0 b
2 Prefix	2 pt/a	A	100.0 a	96.0 a	100.0 a	100.0 a	100.0 a
Ignite	22 oz/a	D					
N-pak ams	2 qt/a	D					
3 Ignite	22 oz/a	B	50.0 d	65.0 b	98.3 a	98.3 a	99.3 a
N-pak ams	2 qt/a	B					
4 Ignite	22 oz/a	B	65.0 bcd	61.7 b	98.3 a	100.0 a	100.0 a
Prefix	1 pt/a	B					
N-pak ams	2 qt/a	B					
5 Ignite	22 oz/a	B	61.7 cd	66.7 b	99.3 a	100.0 a	99.3 a
Dual II Magnum	1.33 pt/a	B					
N-pak ams	2 qt/a	B					
6 Prefix	1 pt/a	B	100.0 a	91.7 a	100.0 a	100.0 a	100.0 a
N-pak ams	2 qt/a	B					
Ignite	22 oz/a	C					
N-pak ams	2 qt/a	C					
7 Ignite	22 oz/a	B	51.7 d	61.7 b	100.0 a	100.0 a	100.0 a
MON 63410	48 oz/a	B					
N-pak ams	2 qt/a	B					
8 Ignite	22 oz/a	B	61.7 cd	68.3 b	100.0 a	100.0 a	100.0 a
KIH 485	4 oz/a	B					
N-pak ams	2 qt/a	B					
9 Ignite	22 oz/a	B	58.3 cd	68.3 b	100.0 a	100.0 a	100.0 a
Outlook	16 oz/a	B					
N-pak ams	2 qt/a	B					
10 Ignite	22 oz/a	B	65.0 bcd	70.0 b	100.0 a	100.0 a	100.0 a
Synchrony XP @.375oz							
Classic	0.322 oz/a	B					
Harmony GT	0.052 oz/a	B					
N-pak ams	2 qt/a	B					
11 Ignite	22 oz/a	B	77.3 b	71.7 b	100.0 a	100.0 a	100.0 a
Firstrate	0.3 oz/a	B					
N-pak ams	2 qt/a	B					
12 Ignite	22 oz/a	B	71.7 bc	70.0 b	100.0 a	100.0 a	100.0 a
Pursuit	4 oz/a	B					
N-pak ams	2 qt/a	B					
LSD (P=.05)			9.70	6.85	2.02	1.41	0.82
Standard Deviation			5.73	4.05	1.19	0.83	0.48
CV			9.02	6.14	1.31	0.91	0.53
Bartlett's X2			7.566	5.462	1.634	0.0	0.0
P(Bartlett's X2)			0.372	0.858	0.442	.	.
Replicate F			1.134	4.948	1.638	1.000	0.478
Replicate Prob(F)			0.3399	0.0168	0.2171	0.3840	0.6262
Treatment F			60.822	100.339	1743.447	3590.091	10735.653
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001	0.0001

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ECHCG	SETFA	ECHCG	AMBTR	AMARE
Pest Scientific Name	Echinochloa cr>	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Amaranthus ret>
Pest Name	Common barnyar>	Giant foxtail	Common barnyar>	Giant ragweed	Redroot pigweed
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jun-28-2010	Jul-12-2010	Jul-12-2010	Jul-12-2010	Jul-12-2010
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	53 11	67 25	67 25	67 25	67 25
Plant-Eval Interval	53 DP-1	67 DP-1	67 DP-1	67 DP-1	67 DP-1
Days After Emergence	41 DE-	55 DE-	55 DE-	55 DE-	55 DE-

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	18	19	20	21	22
1	UTC				0.0 c	0.0 b	0.0 e	0.0 f	0.0 b
2	Prefix	2 pt/a		A	90.0 a	100.0 a	100.0 a	98.3 a	98.3 a
	Ignite	22 oz/a		D					
	N-pak ams	2 qt/a		D					
3	Ignite	22 oz/a		B	63.3 b	99.3 a	91.7 bc	46.7 e	100.0 a
	N-pak ams	2 qt/a		B					
4	Ignite	22 oz/a		B	71.7 b	96.7 a	91.0 bc	66.7 cd	100.0 a
	Prefix	1 pt/a		B					
	N-pak ams	2 qt/a		B					
5	Ignite	22 oz/a		B	75.0 b	100.0 a	96.0 ab	50.0 e	100.0 a
	Dual II Magnum	1.33 pt/a		B					
	N-pak ams	2 qt/a		B					
6	Prefix	1 pt/a		B	86.7 a	98.3 a	98.7 a	96.7 a	100.0 a
	N-pak ams	2 qt/a		B					
	Ignite	22 oz/a		C					
	N-pak ams	2 qt/a		C					
7	Ignite	22 oz/a		B	70.0 b	98.0 a	88.3 cd	46.7 e	100.0 a
	MON 63410	48 oz/a		B					
	N-pak ams	2 qt/a		B					
8	Ignite	22 oz/a		B	76.7 b	100.0 a	98.7 a	56.7 de	100.0 a
	KIH 485	4 oz/a		B					
	N-pak ams	2 qt/a		B					
9	Ignite	22 oz/a		B	75.0 b	99.3 a	96.0 ab	50.0 e	100.0 a
	Outlook	16 oz/a		B					
	N-pak ams	2 qt/a		B					
10	Ignite	22 oz/a		B	66.7 b	97.0 a	85.0 d	63.3 cd	100.0 a
	Synchrony XP @.375oz								
	Classic	0.322 oz/a		B					
	Harmony GT	0.052 oz/a		B					
	N-pak ams	2 qt/a		B					
11	Ignite	22 oz/a		B	71.7 b	99.3 a	91.7 bc	79.3 b	100.0 a
	Firstrate	0.3 oz/a		B					
	N-pak ams	2 qt/a		B					
12	Ignite	22 oz/a		B	73.3 b	100.0 a	98.7 a	70.0 bc	100.0 a
	Pursuit	4 oz/a		B					
	N-pak ams	2 qt/a		B					
	LSD (P=.05)				8.17	2.36	3.90	9.47	1.41
	Standard Deviation				4.83	1.40	2.31	5.59	0.83
	CV				7.06	1.54	2.67	9.27	0.91
	Bartlett's X2				8.5	3.759	8.218	6.266	0.0
	P(Bartlett's X2)				0.386	0.585	0.512	0.509	.
	Replicate F				0.089	1.156	2.733	3.053	1.000
	Replicate Prob(F)				0.9148	0.3332	0.0871	0.0676	0.3840
	Treatment F				66.862	1258.304	429.326	65.453	3590.091
	Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	0.0001

Pest Type	W Weed	W Weed	W Weed
Pest Code	CHEAL	POLPY	HIBTR
Pest Scientific Name	Chenopodium al>	Polygonum pens>	Hibiscus trion>
Pest Name	Common lambsqu>	Pennsylvania s>	Venice mallow
Crop Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Rating Date	Jul-12-2010	Jul-12-2010	Jul-12-2010
Rating Type	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	67 25	67 25	67 25
Plant-Eval Interval	67 DP-1	67 DP-1	67 DP-1
Days After Emergence	55 DE-	55 DE-	55 DE-

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	23	24	25
1	UTC				0.0 b	0.0 b	0.0 b
2	Prefix Ignite	2 pt/a		A	100.0 a	100.0 a	100.0 a
	N-pak ams	22 oz/a		D			
		2 qt/a		D			
3	Prefix Ignite	22 oz/a		B	100.0 a	100.0 a	100.0 a
	N-pak ams	2 qt/a		B			
4	Prefix Ignite	22 oz/a		B	100.0 a	100.0 a	100.0 a
	N-pak ams	1 pt/a		B			
		2 qt/a		B			
5	Prefix Ignite	22 oz/a		B	100.0 a	100.0 a	100.0 a
	Dual II Magnum	1.33 pt/a		B			
	N-pak ams	2 qt/a		B			
6	Prefix Ignite	1 pt/a		B	100.0 a	100.0 a	100.0 a
	N-pak ams	2 qt/a		B			
		22 oz/a		C			
		2 qt/a		C			
7	Prefix Ignite	22 oz/a		B	100.0 a	100.0 a	100.0 a
	MON 63410	48 oz/a		B			
	N-pak ams	2 qt/a		B			
8	Prefix Ignite	22 oz/a		B	100.0 a	100.0 a	100.0 a
	KIH 485	4 oz/a		B			
	N-pak ams	2 qt/a		B			
9	Prefix Ignite	22 oz/a		B	100.0 a	100.0 a	100.0 a
	Outlook	16 oz/a		B			
	N-pak ams	2 qt/a		B			
10	Prefix Ignite	22 oz/a		B	100.0 a	100.0 a	100.0 a
	Synchrony XP @.375oz						
	Classic	0.322 oz/a		B			
	Harmony GT	0.052 oz/a		B			
	N-pak ams	2 qt/a		B			
11	Prefix Ignite	22 oz/a		B	98.3 a	100.0 a	100.0 a
	Firstrate	0.3 oz/a		B			
	N-pak ams	2 qt/a		B			
12	Prefix Ignite	22 oz/a		B	100.0 a	100.0 a	100.0 a
	Pursuit	4 oz/a		B			
	N-pak ams	2 qt/a		B			
	LSD (P=.05)				1.41	0.00	0.00
	Standard Deviation				0.83	0.00	0.00
	CV				0.91	0.0	0.0
	Bartlett's X2				0.0	0.0	0.0
	P(Bartlett's X2)				.	.	.
	Replicate F				1.000	0.000	0.000
	Replicate Prob(F)				0.3840	1.0000	1.0000
	Treatment F				3590.091	0.000	0.000
	Treatment Prob(F)				0.0001	1.0000	1.0000

Ohio State University Horticulture and Crop Science

IGNITE EFFICACY WHEN MISSED PRE APPLICATION

Title No. 2:

Trial ID: 10LLSOY1 Protocol ID: 10LLSOY1
Location: Western Branch F-8 Study Director: Bryan Reeb
Project ID: 10LLSOY1 Investigator: Dr. Mark M. Loux
Sponsor Contact: DAVE LAMORE, BAYER

Pest Type

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

Pest Code

SETFA, Setaria faberi, = US
AMBTR, Ambrosia trifida, = US
CHEAL, Chenopodium album, = US
AMARE, Amaranthus retroflexus, = US
POLPY, Polygonum pensylvanicum, = US
HIBTR, Hibiscus trionum, = US
ECHCG, Echinochloa crus-galli, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

PHYCHL = phytotoxicity - chlorosis
PHYLMA = phytotoxicity - leaf malformation
PHYGEN = phytotoxicity - general / injury

Rating Unit

% = percent

Plant-Eval Interval

32 DP-1 = 1 May-6-2010
39 DP-1 = 1 May-6-2010
53 DP-1 = 1 May-6-2010
67 DP-1 = 1 May-6-2010