

Ohio State University Horticulture and Crop Science

IMPACT SEQUENTIAL PROGRAMS & COMPARISONS

Title No. 2:
 Trial ID: 11PRPOC4 Protocol ID: 11PRPOC4
 Location: WESTERN BRANCH F-8 Study Director: Anthony F. Dobbels
 Project ID: Investigator: Dr. Mark M. Loux
 Sponsor Contact: Rich Porter, AMVAC

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 °:** 39.86003 N
State/Prov.: Ohio **Longitude of LL Corner °:** -83.67028 W
Postal Code: 45368
Country: USA

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: Dekalb DKC 62-97
BBCH Scale: BCOR **Description:** RR
Planting Method: SEEDED seeded **Planting Date:** 5/31/11
Depth, Unit: 2 IN **Rate, Unit:** 32097 S/A
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:** CHEAL *Chenopodium album*
Common Name: Common lambsquarters
- Pest 4 Type:** W **Code:** AMARE *Amaranthus retroflexus*
Common Name: Redroot pigweed
- Pest 5 Type:** W **Code:** ABUTH *Abutilon theophrasti*
Common Name: Velvetleaf
- Pest 6 Type:** W **Code:** IPOHE *Ipomoea hederacea*
Common Name: Ivyleaf morningglory
- Pest 7 Type:** W **Code:** ECHCG *Echinochloa crus-galli*
Common Name: Common barnyardgrass
- Pest 8 Type:** W **Code:** SIDSP *Sida spinosa*
Common Name: Prickly sida
- Pest 9 Type:** W **Code:** HIBTR *Hibiscus trionum*
Common Name: Venice mallow

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 Middle
% OM: 1.1 **Texture:** CL clay loam
pH: 7 **Soil Name:** Celina
CEC: 12.7 **Fert. Level:** G good
Soil Drainage: G good

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Application Description

	A	B	C
Application Date:	5/31/11	6/13/11	6/21/11
Time of Day:	11:15 A.M	12:45 P.M	11:45 A.M
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EPO	POST
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	Reeb	Dobbels	Miller
Air Temperature, Unit:	89.9 F	76.7 F	87 F
% Relative Humidity:	62.1	51.2	71
Wind Velocity, Unit:	3.8 MPH	6.8 MPH	5 MPH
Wind Direction:	SSW	NW	WSW
Dew Presence (Y/N):	N no	N no	N no
Soil Temperature, Unit:	72 F	77 F	74 F
Soil Moisture:	GOOD	MOIST	SLIWET
% Cloud Cover:	2	40	40
Next Rain Occurred On:	6/3/11	6/16/11	6/21/11

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:		14 100	15 100
Height, Unit:		4 IN	10 IN
Height Minimum, Maximum:		4 4	10 11

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Stage Majority, Percent:		13 100	14 100
Height, Unit:		2 IN	4 IN
Height Minimum, Maximum:		1 3	2 4
Density, Unit:	152 M2	152 M2	152 M2
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Stage Majority, Percent:		14 90	14 100
Stage Minimum, Percent:		12 10	
Stage Maximum, Percent:		14 90	
Height, Unit:		4 IN	6 IN
Height Minimum, Maximum:		2 4	4 6
Density, Unit:	20 M2	20 M2	20 M2
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Stage Majority, Percent:		12 100	12 100
Height, Unit:		1 IN	2 IN
Height Minimum, Maximum:		0.5 1	1 2
Density, Unit:	92 M2	92 M2	92 M2
Pest 4 Code, Type, Scale:	AMARE W	AMARE W	AMARE W
Stage Majority, Percent:		14 90	
Stage Minimum, Percent:		12 10	
Stage Maximum, Percent:		14 90	
Height, Unit:		1 IN	
Height Minimum, Maximum:		1 2	
Density, Unit:	21.33 M2	21.33 M2	21.33 M2
Pest 5 Code, Type, Scale:	ABUTH W	ABUTH W	ABUTH W
Stage Majority, Percent:		12 100	12 100
Height, Unit:		2 IN	2 IN
Height Minimum, Maximum:		1 2	1 2
Density, Unit:	2.66 M2	2.66 M2	2.66 M2
Pest 6 Code, Type, Scale:	IPOHE W	IPOHE W	IPOHE W
Stage Majority, Percent:		12 100	12 100
Height, Unit:		1 IN	2 IN
Height Minimum, Maximum:		1 1	1 2
Density, Unit:	1.33 M2	1.33 M2	1.33 M2
Pest 7 Code, Type, Scale:	ECHCG W	ECHCG W	ECHCG W
Density, Unit:	2.66 M2	2.66 M2	2.66 M2
Pest 8 Code, Type, Scale:	SIDSP W	SIDSP W	SIDSP W
Density, Unit:	1.33 M2	1.33 M2	1.33 M2
Pest 9 Code, Type, Scale:	HIBTR W	HIBTR W	HIBTR W
Density, Unit:	12 M2	12 M2	12 M2

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Application Equipment

	A	B	C
Appl. Equipment:	6 foot boom	6 foot boom	6 foot boom
Equipment Type:	SPRBAC	SPRBAC	SPRBAC
Operating Pressure, Unit:	46 PSI	46 PSI	46 PSI
Nozzle Type:	TEEJET DG	TEEJET DG	TEEJET DG
Nozzle Size:	80015	80015	80015
Nozzle Spacing, Unit:	18 IN	18 IN	18 IN
Boom Length, Unit:	6 FT	6 FT	6 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:	0.33 Gallons	0.33 Gallons	0.33 Gallons
Propellant:	CO2	CO2	CO2

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 Project ID: Investigator: Dr. Mark M. Loux
 Sponsor Contact: Rich Porter, AMVAC

Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	AMARE	ABUTH
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>	Abutilon theop>
Pest Name		Giant foxtail	Giant ragweed	Common lambsqu>	Redroot pigweed	Velvetleaf
Crop Code	ZEAMX					
BBCH Scale	BCOR					
Crop Scientific Name	Zea mays					
Crop Name	Corn					
Rating Date	6/22/11	6/22/11	6/22/11	6/22/11	6/22/11	6/22/11
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Rating Timing	AT POST	AT POST	AT POST	AT POST	AT POST	AT POST
Days After First/Last Applic.	22 1	22 1	22 1	22 1	22 1	22 1
Trt-Eval Interval	1 DA-C	1 DA-C	1 DA-C	1 DA-C	1 DA-C	1 DA-C
Plant-Eval Interval	22 DP-1	22 DP-1	22 DP-1	22 DP-1	22 DP-1	22 DP-1
Days After Emergence	16 DE-1	16 DE-1	16 DE-1	16 DE-1	16 DE-1	16 DE-1
Number of Decimals	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
1	UTC					0	0	0	0	0	0
2	Harness Extra 5.6	5.6	3.2 pt/a		A	0	90	60	60	100	60
3	Harness Extra 5.6	5.6	3.2 pt/a		A	0	94	72	60	100	60
	3 Impact	2.8	0.75 oz/a		C						
	3 Atrazine	4	1 pt/a		C						
	3 MSO	100	0.6 qt/a		C						
	3 28% UAN	100	3 pt/a		C						
4	Harness Extra 5.6	5.6	3.2 pt/a		A	0	92	63	60	100	60
	4 Impact	2.8	1 oz/a		C						
	4 Atrazine	4	1 pt/a		C						
	4 MSO	100	0.6 qt/a		C						
	4 28% UAN	100	3 pt/a		C						
5	Harness Extra 5.6	5.6	3.2 pt/a		A	0	92	60	60	100	60
	5 Impact	2.8	0.75 oz/a		C						
	5 Status	56	2.5 oz/a		C						
	5 Atrazine	4	1 pt/a		C						
	5 MSO	100	0.6 qt/a		C						
	5 28% UAN	100	3 pt/a		C						
6	Harness Extra 5.6	5.6	3.2 pt/a		A	0	92	72	60	100	60
	6 Roundup PowerMax	4.5	22 oz/a		C						
	6 N-PAK AMS	100	3 pt/a		C						
7	Harness Extra 5.6	5.6	3.2 pt/a		A	0	90	60	60	100	60
	7 Impact	2.8	0.75 oz/a		C						
	7 Roundup PowerMax	4.5	22 oz/a		C						
	7 Atrazine	4	1 pt/a		C						
	7 Superb HC	100	0.3 qt/a		C						
	7 28% UAN	100	3 pt/a		C						
8	Harness Extra 5.6	5.6	3.2 pt/a		B	0	100	97	100	100	100
	8 Roundup PowerMax	4.5	22 oz/a		B						
	8 Impact	2.8	0.5 oz/a		B						
	8 Superb HC	100	0.3 qt/a		B						
	8 N-PAK AMS	100	3 pt/a		B						
9	Halex GT	4.38	3.6 pt/a		B	0	100	96	100	100	100
	9 Atrazine	4	1 pt/a		B						
	9 NIS	100	4.8 oz/a		B						
	9 N-PAK AMS	100	3 pt/a		B						

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Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	AMARE	ABUTH
Pest Scientific Name		Setaria faberi	Ambrosia trif>	Chenopodium al>	Amaranthus ret>	Abutilon theop>
Pest Name		Giant foxtail	Giant ragweed	Common lambsqu>	Redroot pigweed	Velvetleaf
Crop Code	ZEAMX					
BBCH Scale	BCOR					
Crop Scientific Name	Zea mays					
Crop Name	Corn					
Rating Date	6/22/11	6/22/11	6/22/11	6/22/11	6/22/11	6/22/11
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Rating Timing	AT POST	AT POST	AT POST	AT POST	AT POST	AT POST
Days After First/Last Applic.	22 1	22 1	22 1	22 1	22 1	22 1
Trt-Eval Interval	1 DA-C	1 DA-C	1 DA-C	1 DA-C	1 DA-C	1 DA-C
Plant-Eval Interval	22 DP-1	22 DP-1	22 DP-1	22 DP-1	22 DP-1	22 DP-1
Days After Emergence	16 DE-1	16 DE-1	16 DE-1	16 DE-1	16 DE-1	16 DE-1
Number of Decimals	0	0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	
10	Surestart	4.25	1.75 pt/a		B	0
10	Durango DMA	4	24 oz/a		B	100
10	N-PAK AMS	100	3 pt/a		B	93
						100
						100
						100
LSD (P=.05)		0.0	3.0	9.3		0.0
Standard Deviation		0.0	1.7	5.4		0.0
CV		0.0	2.03	8.05		0.0
Bartlett's X2		0.0	0.353	9.106		0.0
P(Bartlett's X2)		.	0.95	0.105		.
Replicate F		0.000	4.933	0.069		0.000
Replicate Prob(F)		1.0000	0.0196	0.9334		1.0000
Treatment F		0.000	918.023	81.008		0.000
Treatment Prob(F)		1.0000	0.0001	0.0001		1.0000

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	POLPY	SETFA	AMBTR	CHEAL
Pest Scientific Name	Persicaria pen>	Setaria faberi	Ambrosia trifi>	Chenopodium al>
Pest Name	Pennsylvania s>	Giant foxtail	Giant ragweed	Common lambsqu>
Crop Code	ZEAMX	ZEAMX		
BBCH Scale	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays		
Crop Name	Corn	Corn		
Rating Date	6/22/11	6/28/11	7/5/11	7/5/11
Rating Type	CONTRO	PHYGEN	PHYGEN	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Rating Timing	AT POST			
Days After First/Last Applic.	22 1	28 7	35 14	35 14
Trt-Eval Interval	1 DA-C	7 DA-C	14 DA-C	14 DA-C
Plant-Eval Interval	22 DP-1	28 DP-1	35 DP-1	35 DP-1
Days After Emergence	16 DE-1	22 DE-1	29 DE-1	29 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	7	8	9	10	11	12
1	UTC					0	0	0	0	0	0
2	Harness Extra 5.6	5.6	3.2 pt/a		A	100	1	0	73	33	47
3	Harness Extra 5.6	5.6	3.2 pt/a		A	100	2	0	100	95	100
	3 Impact	2.8	0.75 oz/a		C						
	3 Atrazine	4	1 pt/a		C						
	3 MSO	100	0.6 qt/a		C						
	3 28% UAN	100	3 pt/a		C						
4	Harness Extra 5.6	5.6	3.2 pt/a		A	100	2	0	100	97	100
	4 Impact	2.8	1 oz/a		C						
	4 Atrazine	4	1 pt/a		C						
	4 MSO	100	0.6 qt/a		C						
	4 28% UAN	100	3 pt/a		C						
5	Harness Extra 5.6	5.6	3.2 pt/a		A	100	2	0	100	97	99
	5 Impact	2.8	0.75 oz/a		C						
	5 Status	56	2.5 oz/a		C						
	5 Atrazine	4	1 pt/a		C						
	5 MSO	100	0.6 qt/a		C						
	5 28% UAN	100	3 pt/a		C						
6	Harness Extra 5.6	5.6	3.2 pt/a		A	100	1	0	99	92	98
	6 Roundup PowerMax	4.5	22 oz/a		C						
	6 N-PAK AMS	100	3 pt/a		C						
7	Harness Extra 5.6	5.6	3.2 pt/a		A	92	2	0	100	95	100
	7 Impact	2.8	0.75 oz/a		C						
	7 Roundup PowerMax	4.5	22 oz/a		C						
	7 Atrazine	4	1 pt/a		C						
	7 Superb HC	100	0.3 qt/a		C						
	7 28% UAN	100	3 pt/a		C						
8	Harness Extra 5.6	5.6	3.2 pt/a		B	100	1	0	100	89	96
	8 Roundup PowerMax	4.5	22 oz/a		B						
	8 Impact	2.8	0.5 oz/a		B						
	8 Superb HC	100	0.3 qt/a		B						
	8 N-PAK AMS	100	3 pt/a		B						
9	Halex GT	4.38	3.6 pt/a		B	100	1	0	100	93	100
	9 Atrazine	4	1 pt/a		B						
	9 NIS	100	4.8 oz/a		B						
	9 N-PAK AMS	100	3 pt/a		B						

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Pest Type	W Weed			W Weed		W Weed		W Weed						
Pest Code	POLPY			SETFA		AMBTR		CHEAL						
Pest Scientific Name	Persicaria pen>			Setaria faberi		Ambrosia trifi>		Chenopodium al>						
Pest Name	Pennsylvania s>			Giant foxtail		Giant ragweed		Common lambsqu>						
Crop Code	ZEAMX		ZEAMX											
BBCH Scale	BCOR		BCOR											
Crop Scientific Name	Zea mays		Zea mays											
Crop Name	Corn		Corn											
Rating Date	6/22/11		6/28/11		7/5/11		7/5/11		7/5/11					
Rating Type	CONTRO		PHYGEN		PHYGEN		CONTRO		CONTRO					
Rating Unit	%		%		%		%		%					
Number of Subsamples	1		1		1		1		1					
Rating Timing	AT POST													
Days After First/Last Applic.	22 1		28 7		35 14		35 14		35 14					
Trt-Eval Interval	1 DA-C		7 DA-C		14 DA-C		14 DA-C		14 DA-C					
Plant-Eval Interval	22 DP-1		28 DP-1		35 DP-1		35 DP-1		35 DP-1					
Days After Emergence	16 DE-1		22 DE-1		29 DE-1		29 DE-1		29 DE-1					
Number of Decimals	0		0		0		0		0					
Trt No.	Treatment Name		Form Conc	Other Rate	Other Rate	Unit	Appl Code	7	8	9	10	11	12	
10	Surestart		4.25	1.75	pt/a	B		100	0	0	100	88	100	
10	Durango DMA		4	24	oz/a	B								
10	N-PAK AMS		100	3	pt/a	B								
LSD (P=.05)			7.8		1.8		0.0		3.3		8.5		11.4	
Standard Deviation			4.6		1.0		0.0		1.9		5.0		6.7	
CV			5.12		95.64		0.0		2.18		6.37		7.95	
Bartlett's X2			0.0		0.4		0.0		3.729		4.419		14.244	
P(Bartlett's X2)			.		0.995		.		0.053		0.817		0.003*	
Replicate F			1.000		0.609		0.000		0.590		2.530		1.491	
Replicate Prob(F)			0.3874		0.5550		1.0000		0.5646		0.1075		0.2516	
Treatment F			142.333		1.694		0.000		838.234		135.578		76.985	
Treatment Prob(F)			0.0001		0.1631		1.0000		0.0001		0.0001		0.0001	

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMARE	ABUTH	POLPY	SETFA	AMBTR
Pest Scientific Name	Amaranthus ret>	Abutilon theop>	Persicaria pen>	Setaria faberi	Ambrosia trifi>
Pest Name	Redroot pigweed	Velvetleaf	Pennsylvania s>	Giant foxtail	Giant ragweed
Crop Code				ZEAMX	
BBCH Scale				BCOR	
Crop Scientific Name				Zea mays	
Crop Name				Corn	
Rating Date	7/5/11	7/5/11	7/5/11	7/18/11	7/18/11
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Rating Timing					
Days After First/Last Applic.	35 14	35 14	35 14	48 27	48 27
Trt-Eval Interval	14 DA-C	14 DA-C	14 DA-C	27 DA-C	27 DA-C
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	48 DP-1	48 DP-1
Days After Emergence	29 DE-1	29 DE-1	29 DE-1	42 DE-1	42 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	13	14	15	16	17	18
1	UTC					0	0	0	0	0	0
2	Harness Extra 5.6	5.6	3.2 pt/a		A	100	83	100	0	80	20
3	Harness Extra 5.6	5.6	3.2 pt/a		A	100	100	100	0	100	98
	3 Impact	2.8	0.75 oz/a		C						
	3 Atrazine	4	1 pt/a		C						
	3 MSO	100	0.6 qt/a		C						
	3 28% UAN	100	3 pt/a		C						
4	Harness Extra 5.6	5.6	3.2 pt/a		A	100	100	100	0	100	100
	4 Impact	2.8	1 oz/a		C						
	4 Atrazine	4	1 pt/a		C						
	4 MSO	100	0.6 qt/a		C						
	4 28% UAN	100	3 pt/a		C						
5	Harness Extra 5.6	5.6	3.2 pt/a		A	100	100	100	0	100	98
	5 Impact	2.8	0.75 oz/a		C						
	5 Status	56	2.5 oz/a		C						
	5 Atrazine	4	1 pt/a		C						
	5 MSO	100	0.6 qt/a		C						
	5 28% UAN	100	3 pt/a		C						
6	Harness Extra 5.6	5.6	3.2 pt/a		A	100	99	100	0	100	95
	6 Roundup PowerMax	4.5	22 oz/a		C						
	6 N-PAK AMS	100	3 pt/a		C						
7	Harness Extra 5.6	5.6	3.2 pt/a		A	100	100	100	0	100	96
	7 Impact	2.8	0.75 oz/a		C						
	7 Roundup PowerMax	4.5	22 oz/a		C						
	7 Atrazine	4	1 pt/a		C						
	7 Superb HC	100	0.3 qt/a		C						
	7 28% UAN	100	3 pt/a		C						
8	Harness Extra 5.6	5.6	3.2 pt/a		B	100	100	100	0	100	86
	8 Roundup PowerMax	4.5	22 oz/a		B						
	8 Impact	2.8	0.5 oz/a		B						
	8 Superb HC	100	0.3 qt/a		B						
	8 N-PAK AMS	100	3 pt/a		B						
9	Halex GT	4.38	3.6 pt/a		B	100	100	100	0	100	100
	9 Atrazine	4	1 pt/a		B						
	9 NIS	100	4.8 oz/a		B						
	9 N-PAK AMS	100	3 pt/a		B						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMARE	ABUTH	POLPY	SETFA	AMBTR	
Pest Scientific Name	Amaranthus ret>	Abutilon theop>	Persicaria pen>	Setaria faberi	Ambrosia trifi>	
Pest Name	Redroot pigweed	Velvetleaf	Pennsylvania s>	Giant foxtail	Giant ragweed	
Crop Code				ZEAMX		
BBCH Scale				BCOR		
Crop Scientific Name				Zea mays		
Crop Name				Corn		
Rating Date	7/5/11	7/5/11	7/5/11	7/18/11	7/18/11	7/18/11
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Rating Timing						
Days After First/Last Applic.	35 14	35 14	35 14	48 27	48 27	48 27
Trt-Eval Interval	14 DA-C	14 DA-C	14 DA-C	27 DA-C	27 DA-C	27 DA-C
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	48 DP-1	48 DP-1	48 DP-1
Days After Emergence	29 DE-1	29 DE-1	29 DE-1	42 DE-1	42 DE-1	42 DE-1
Number of Decimals	0	0	0	0	0	0
Trt No.	13	14	15	16	17	18
Treatment Name	10 Surestart	10 Durango DMA	10 N-PAK AMS			
Form Conc	4.25	4	100			
Other Rate	1.75 pt/a	24 oz/a	3 pt/a			
Appl Unit Code	B	B	B			
Mean	100	100	100	0	100	92
LSD (P=.05)	0.0	11.2	0.0	0.0	0.0	7.7
Standard Deviation	0.0	6.6	0.0	0.0	0.0	4.5
CV	0.0	7.42	0.0	0.0	0.0	5.7
Bartlett's X2	0.0	8.593	0.0	0.0	0.0	7.079
P(Bartlett's X2)	.	0.003*	.	.	.	0.215
Replicate F	0.000	1.121	0.000	0.000	0.000	1.268
Replicate Prob(F)	1.0000	0.3478	1.0000	1.0000	1.0000	0.3054
Treatment F	0.000	69.087	0.000	0.000	0.000	200.964
Treatment Prob(F)	1.0000	0.0001	1.0000	1.0000	1.0000	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMARE	ABUTH	POLPY	SETFA
Pest Scientific Name	Chenopodium al	Amaranthus ret	Abutilon theop	Persicaria pen	Setaria faberi
Pest Name	Common lambsqu	Redroot pigweed	Velvetleaf	Pennsylvania s	Giant foxtail
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	7/18/11	7/18/11	7/18/11	7/18/11	8/17/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Rating Timing					
Days After First/Last Applic.	48 27	48 27	48 27	48 27	78 57
Trt-Eval Interval	27 DA-C	27 DA-C	27 DA-C	27 DA-C	57 DA-C
Plant-Eval Interval	48 DP-1	48 DP-1	48 DP-1	48 DP-1	78 DP-1
Days After Emergence	42 DE-1	42 DE-1	42 DE-1	42 DE-1	72 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	19	20	21	22	23
1	UTC					0	0	0	0	0
2	Harness Extra 5.6	5.6	3.2 pt/a		A	50	100	77	100	82
3	Harness Extra 5.6	5.6	3.2 pt/a		A	100	100	100	100	99
	3 Impact	2.8	0.75 oz/a		C					
	3 Atrazine	4	1 pt/a		C					
	3 MSO	100	0.6 qt/a		C					
	3 28% UAN	100	3 pt/a		C					
4	Harness Extra 5.6	5.6	3.2 pt/a		A	100	100	100	100	99
	4 Impact	2.8	1 oz/a		C					
	4 Atrazine	4	1 pt/a		C					
	4 MSO	100	0.6 qt/a		C					
	4 28% UAN	100	3 pt/a		C					
5	Harness Extra 5.6	5.6	3.2 pt/a		A	100	100	100	100	98
	5 Impact	2.8	0.75 oz/a		C					
	5 Status	56	2.5 oz/a		C					
	5 Atrazine	4	1 pt/a		C					
	5 MSO	100	0.6 qt/a		C					
	5 28% UAN	100	3 pt/a		C					
6	Harness Extra 5.6	5.6	3.2 pt/a		A	88	100	100	100	97
	6 Roundup PowerMax	4.5	22 oz/a		C					
	6 N-PAK AMS	100	3 pt/a		C					
7	Harness Extra 5.6	5.6	3.2 pt/a		A	100	100	100	100	99
	7 Impact	2.8	0.75 oz/a		C					
	7 Roundup PowerMax	4.5	22 oz/a		C					
	7 Atrazine	4	1 pt/a		C					
	7 Superb HC	100	0.3 qt/a		C					
	7 28% UAN	100	3 pt/a		C					
8	Harness Extra 5.6	5.6	3.2 pt/a		B	95	100	100	100	100
	8 Roundup PowerMax	4.5	22 oz/a		B					
	8 Impact	2.8	0.5 oz/a		B					
	8 Superb HC	100	0.3 qt/a		B					
	8 N-PAK AMS	100	3 pt/a		B					
9	Halex GT	4.38	3.6 pt/a		B	100	100	100	100	100
	9 Atrazine	4	1 pt/a		B					
	9 NIS	100	4.8 oz/a		B					
	9 N-PAK AMS	100	3 pt/a		B					

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMARE	ABUTH	POLPY	SETFA
Pest Scientific Name	Chenopodium al>	Amaranthus ret>	Abutilon theop>	Persicaria pen>	Setaria faberi
Pest Name	Common lambsqu>	Redroot pigweed	Velvetleaf	Pennsylvania s>	Giant foxtail
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	7/18/11	7/18/11	7/18/11	7/18/11	8/17/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Rating Timing					
Days After First/Last Applic.	48 27	48 27	48 27	48 27	78 57
Trt-Eval Interval	27 DA-C	27 DA-C	27 DA-C	27 DA-C	57 DA-C
Plant-Eval Interval	48 DP-1	48 DP-1	48 DP-1	48 DP-1	78 DP-1
Days After Emergence	42 DE-1	42 DE-1	42 DE-1	42 DE-1	72 DE-1
Number of Decimals	0	0	0	0	0
Trt No.	19	20	21	22	23
Treatment Name	10 Surestart	10 Durango DMA	10 N-PAK AMS		
Form Conc	4.25	4	100		
Other Rate	1.75 pt/a	24 oz/a	3 pt/a		
Appl Unit Code	B	B	B		
LSD (P=.05)	7.7	0.0	13.7	0.0	3.8
Standard Deviation	4.5	0.0	8.0	0.0	2.2
CV	5.4	0.0	9.08	0.0	2.51
Bartlett's X2	0.066	0.0	0.0	0.0	12.89
P(Bartlett's X2)	0.798	.	.	.	0.045*
Replicate F	0.041	0.000	1.000	0.000	1.000
Replicate Prob(F)	0.9598	1.0000	0.3874	1.0000	0.3874
Treatment F	162.466	0.000	47.491	0.000	606.905
Treatment Prob(F)	0.0001	1.0000	0.0001	1.0000	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	AMARE	ABUTH	POLPY
Pest Scientific Name	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>	Abutilon theop>	Persicaria pen>
Pest Name	Giant ragweed	Common lambsqu>	Redroot pigweed	Velvetleaf	Pennsylvania s>
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	8/17/11	8/17/11	8/17/11	8/17/11	8/17/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Rating Timing					
Days After First/Last Applic.	78 57	78 57	78 57	78 57	78 57
Trt-Eval Interval	57 DA-C	57 DA-C	57 DA-C	57 DA-C	57 DA-C
Plant-Eval Interval	78 DP-1	78 DP-1	78 DP-1	78 DP-1	78 DP-1
Days After Emergence	72 DE-1	72 DE-1	72 DE-1	72 DE-1	72 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Other Rate	Other Rate	Appl Unit Code	24	25	26	27	28
1	UTC					0	0	0	0	0
2	Harness Extra 5.6	5.6	3.2 pt/a		A	60	57	100	87	100
3	Harness Extra 5.6	5.6	3.2 pt/a		A	98	100	100	100	100
	3 Impact	2.8	0.75 oz/a		C					
	3 Atrazine	4	1 pt/a		C					
	3 MSO	100	0.6 qt/a		C					
	3 28% UAN	100	3 pt/a		C					
4	Harness Extra 5.6	5.6	3.2 pt/a		A	95	100	100	100	100
	4 Impact	2.8	1 oz/a		C					
	4 Atrazine	4	1 pt/a		C					
	4 MSO	100	0.6 qt/a		C					
	4 28% UAN	100	3 pt/a		C					
5	Harness Extra 5.6	5.6	3.2 pt/a		A	96	100	100	100	100
	5 Impact	2.8	0.75 oz/a		C					
	5 Status	56	2.5 oz/a		C					
	5 Atrazine	4	1 pt/a		C					
	5 MSO	100	0.6 qt/a		C					
	5 28% UAN	100	3 pt/a		C					
6	Harness Extra 5.6	5.6	3.2 pt/a		A	90	73	100	95	100
	6 Roundup PowerMax	4.5	22 oz/a		C					
	6 N-PAK AMS	100	3 pt/a		C					
7	Harness Extra 5.6	5.6	3.2 pt/a		A	95	100	100	100	100
	7 Impact	2.8	0.75 oz/a		C					
	7 Roundup PowerMax	4.5	22 oz/a		C					
	7 Atrazine	4	1 pt/a		C					
	7 Superb HC	100	0.3 qt/a		C					
	7 28% UAN	100	3 pt/a		C					
8	Harness Extra 5.6	5.6	3.2 pt/a		B	95	93	100	100	100
	8 Roundup PowerMax	4.5	22 oz/a		B					
	8 Impact	2.8	0.5 oz/a		B					
	8 Superb HC	100	0.3 qt/a		B					
	8 N-PAK AMS	100	3 pt/a		B					
9	Halex GT	4.38	3.6 pt/a		B	97	100	100	100	100
	9 Atrazine	4	1 pt/a		B					
	9 NIS	100	4.8 oz/a		B					
	9 N-PAK AMS	100	3 pt/a		B					

Ohio State University Horticulture and Crop Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	AMARE	ABUTH	POLPY
Pest Scientific Name	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>	Abutilon theop>	Persicaria pen>
Pest Name	Giant ragweed	Common lambsqu>	Redroot pigweed	Velvetleaf	Pennsylvania s>
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	8/17/11	8/17/11	8/17/11	8/17/11	8/17/11
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Rating Timing					
Days After First/Last Applic.	78 57	78 57	78 57	78 57	78 57
Trt-Eval Interval	57 DA-C	57 DA-C	57 DA-C	57 DA-C	57 DA-C
Plant-Eval Interval	78 DP-1	78 DP-1	78 DP-1	78 DP-1	78 DP-1
Days After Emergence	72 DE-1	72 DE-1	72 DE-1	72 DE-1	72 DE-1
Number of Decimals	0	0	0	0	0
Trt No.	24	25	26	27	28
Treatment Name	10 Surestart	10 Durango DMA	10 N-PAK AMS		
Form Conc	4.25	4	100		
Other Rate	1.75 pt/a	24 oz/a	3 pt/a		
Other Rate					
Appl Unit Code	B	B	B		
Mean	92	100	100	100	100
LSD (P=.05)	10.6	7.3	0.0	12.9	0.0
Standard Deviation	6.2	4.2	0.0	7.5	0.0
CV	7.56	5.14	0.0	8.52	0.0
Bartlett's X2	2.763	3.46	0.0	1.636	0.0
P(Bartlett's X2)	0.838	0.177	.	0.201	.
Replicate F	0.528	1.549	0.000	1.788	0.000
Replicate Prob(F)	0.5987	0.2395	1.0000	0.1957	1.0000
Treatment F	74.660	177.148	0.000	52.034	0.000
Treatment Prob(F)	0.0001	0.0001	1.0000	0.0001	1.0000

Ohio State University Horticulture and Crop Science

IMPACT SEQUENTIAL PROGRAMS & COMPARISONS

Title No. 2:

Trial ID: 11PRPOC4 Protocol ID: 11PRPOC4
Location: WESTERN BRANCH F-8 Study Director: Anthony F. Dobbels
Project ID: Investigator: Dr. Mark M. Loux
Sponsor Contact: Rich Porter, AMVAC

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
ABUTH, *Abutilon theophrasti*, = US
POLPY, *Persicaria pensylvanica*, = 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

22 DP-1 = 1 5/31/11
28 DP-1 = 1 5/31/11
35 DP-1 = 1 5/31/11
48 DP-1 = 1 5/31/11
78 DP-1 = 1 5/31/11