

Ohio State University
Horticulture and Crop Science

Enlist Corn Weed Control Programs in COI Trials

Title No. 2:
 Trial ID: 12ENLISTCORN Protocol ID: 12ENLISTCORN
 Location: Western Branch Big E Study Director: Anthony F. Dobbels
 Project ID: NA12PSE002 Investigator: Dr. Mark M. Loux
 Sponsor Contact: Brad Hopkins, Dow AgroSciences

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 °: 39.85657 N
 State/Prov.: Ohio Longitude of LL Corner °: 83.67021 W
 Postal Code: 45368
 Country: USA

Crop Description

Crop 1: ZEAMX Zea mays Corn
 Variety: x12541sd Description: Enlist Corn
 BBCH Scale: BCOR Planting Date: May-11-2012
 Planting Method: SEEDED seeded Rate, Unit: 32097 S/A
 Depth, Unit: 1.5 in
 Row Spacing, Unit: 30 in
 Seed Bed: MEDIUM medium Soil Temperature, Unit: 55 f
 Soil Moisture: GOOD good Emergence Date: May-17-2012

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: AMARE Amaranthus retroflexus
 Common Name: Redroot pigweed
 Pest 4 Type: W Code: CHEAL Chenopodium album
 Common Name: Common lambsquarters
 Pest 5 Type: W Code: POLPY Persicaria pensylvanica
 Common Name: Pennsylvania smartweed
 Pest 6 Type: W Code: SOLPT Solanum ptycanthum
 Common Name: Eastern black nightshade
 Pest 7 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: 25 FT Experimental Unit: 1 PLOT plot
 Plot Area, Unit: 166.75 FT² Tillage Type: CONTIL conventional-till
 Replications: 4 Study Design: RACOB� Randomized Complete Block (RCB)
 Untreated Arrangement: INCLUDED single control randomized in each block

Trial Initiation Comments:

Soil Description

Description Name: Big E South
 % OM: 2.2 Texture: SICL silty clay loam
 pH: 6.1 Soil Name: Kokomo
 CEC: 14

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Application Description

	A	B	C
Application Date:	May-11-2012	May-30-2012	Jun-6-2012
Time of Day:	1:30pm	8:20AM	9:00am
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	V2	V4
Application Placement:	BROSOI	BROFOL	BROFOL
Air Temperature, Unit:	72 F	70 F	60 F
% Relative Humidity:	44	74	71
Wind Velocity, Unit:	2 MPH	0 MPH	5 MPH
Wind Direction:	N		N
Dew Presence (Y/N):	N no	N no	N no
Soil Temperature, Unit:	63 f	65 F	58 F
Soil Moisture:	DRY	DRY	DRY
% Cloud Cover:	0	0	0
Next Rain Occurred On:	May-31-2012	May-31-2012	Jun-11-2012

Crop Stage At Each Application

	A		B		C	
Crop 1 Code, BBCH Scale:	ZEAMX	BCOR	ZEAMX	BCOR	ZEAMX	BCOR
Stage Scale Used:	BBCH		BBCH		BBCH	
Stage Majority, Percent:	13 100		15 100		12 100	
Height, Unit:	7 IN		12 IN		12 IN	
Height Minimum, Maximum:	6 8		12 12			

Pest Stage At Each Application

	A		B		C	
Pest 1 Code, Type, Scale:	SETFA	W	SETFA	W	SETFA	W
Stage Majority, Percent:	13 100		23 100		23 100	
Height, Unit:	2 IN		6.5 IN		5 8	
Height Minimum, Maximum:	1 3		5 8		5 8	
Density, Unit:	68 m2		68 M2			
Pest 2 Code, Type, Scale:	AMBTR	W	AMBTR	W	AMBTR	W
Stage Majority, Percent:	14 100		19 100		19 100	
Height, Unit:	3 IN		6 IN		6 IN	
Height Minimum, Maximum:	2 4		5 8		5 8	
Density, Unit:	13 m2		13 M2			
Pest 3 Code, Type, Scale:	AMARE	W	AMARE	W	AMARE	W
Stage Majority, Percent:	14 100		18 100		18 100	
Height, Unit:	1.5 IN		2.5 IN		2 3	
Height Minimum, Maximum:	1 2		2 3		2 3	
Density, Unit:	5 m2		5 M2			
Pest 4 Code, Type, Scale:	CHEAL	W	CHEAL	W	CHEAL	W
Stage Majority, Percent:	16 100		19 100		19 100	
Height, Unit:	1.5 IN		2 IN		2 IN	
Height Minimum, Maximum:	1 2		2 2		2 2	
Density, Unit:	5 m2		5 M2			
Pest 5 Code, Type, Scale:	POLPY	W	POLPY	W	POLPY	W
Stage Majority, Percent:	12 100		13 100		13 100	
Height, Unit:	1 IN		2 IN		2 IN	
Height Minimum, Maximum:	1 1		2 2		2 2	
Density, Unit:	4 m2		4 M2			
Pest 6 Code, Type, Scale:	SOLPT	W	SOLPT	W	SOLPT	W
Stage Majority, Percent:			16 100		16 100	
Height, Unit:			2 IN		2 IN	
Height Minimum, Maximum:			2 2		2 2	
Density, Unit:			3 M2		3 M2	
Pest 7 Code, Type, Scale:	HIBTR	W	HIBTR	W	HIBTR	W
Density, Unit:			2 M2		2 M2	

Application Equipment

	A	B	C
Appl. Equipment:	6 foot boom	6 foot boom	6 foot boom
Equipment Type:	SPRBAC	SPRBAC	SPRBAC
Operation Pressure, Unit:	46 PSI	46 PSI	46 PSI
Nozzle Type:	AI XR	AI XR	AI XR
Nozzle Size:	110015	110015	110015
Nozzle Spacing, Unit:	18 IN	18 IN	18 IN
Boom Length, Unit:	6 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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Study Director: Anthony F. Dobbels
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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	AMARE
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>	Redroot pigweed
Crop Code	ZEAMX			
BBCH Scale	BCOR			
Crop Scientific Name	Zea mays			
Crop Name	Corn			
Rating Date	Jun-5-2012	Jun-5-2012	Jun-5-2012	Jun-5-2012
Rating Type	PHYTO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Rating Timing	AT POST	AT POST	AT POST	AT POST
Days After First/Last Applic.	25 6	25 6	25 6	25 6
Trt-Eval Interval	25 DA-A	25 DA-A	25 DA-A	25 DA-A
Plant-Eval Interval	25 DP-1	25 DP-1	25 DP-1	25 DP-1
Days After Emergence	19 DE-1	19 DE-1	19 DE-1	19 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Growth Stage	Appl Code	1	2	3	4	5
1	Surestart	1.06 lb ai/a	2 pt/a		PRE	A	0 f	35 d	13 ef	43 bc	18 ef
1	Durango DMA	0.75 lb ae/a	1.5 pt/a		V4	C					
1	N-PAK AMS	2.5 % v/v	1.5 qt/a		V4						
2	Surestart	1.06 lb ai/a	2 pt/a		PRE	A	1 def	63 bc	20 de	55 b	35 de
2	GF-2726	1.46 lb ae/a	3.5 pt/a		V4	C					
2	N-PAK AMS	2.5 % v/v	1.5 qt/a		V4						
3	Harness Extra 5.6	2.1 lb ai/a	1.5 qt/a		PRE	A	1 ef	50 cd	45 b	48 bc	55 bc
3	Roundup PowerMax	0.75 lb ae/a	1.33 pt/a		V4	C					
3	Clarity	0.5 lb ai/a	1 pt/a		V4						
3	N-PAK AMS	2.5 % v/v	1.5 qt/a		V4						
4	Harness Extra 5.6	2.1 lb ai/a	1.5 qt/a		PRE	A	1 ef	60 bc	38 bc	53 bc	65 b
4	Roundup PowerMax	0.75 lb ae/a	1.33 pt/a		V4	C					
4	Status	0.35 lb ai/a	10 oz/a		V4						
4	N-PAK AMS	2.5 % v/v	1.5 qt/a		V4						
5	Corvus	0.076 lb ai/a	3.7 oz/a		PRE	A	0 f	40 d	33 bcd	60 b	43 cd
5	Durango DMA	0.75 lb ae/a	1.5 pt/a		V4	C					
5	N-PAK AMS	2.5 % v/v	1.5 qt/a		V4						
6	Lumax	1.97 lb ai/a	2 qt/a		PRE	A	0 f	70 b	43 bc	53 bc	50 bcd
6	Durango DMA	0.75 lb ae/a	1.5 pt/a		V4	C					
6	N-PAK AMS	2.5 % v/v	1.5 qt/a		V4						
7	Verdict	0.52 lb ai/a	12 oz/a		PRE	A	0 f	50 cd	28 cde	33 c	40 cd
7	Durango DMA	0.75 lb ae/a	1.5 pt/a		V4	C					
7	N-PAK AMS	2.5 % v/v	1.5 qt/a		V4						
8	UTC						0 f	0 e	0 f	0 d	0 f
9	Surestart	1.06 lb ai/a	2 pt/a		V2	B	4 cd	100 a	100 a	100 a	100 a
9	Durango DMA	0.75 lb ae/a	1.5 pt/a		V2						
9	N-PAK AMS	2.5 % v/v	1.5 qt/a		V2						
10	Surestart	1.06 lb ai/a	2 pt/a		V2	B	7 b	100 a	100 a	100 a	100 a
10	GF-2726	1.46 lb ae/a	3.5 pt/a		V2						
10	N-PAK AMS	2.5 % v/v	1.5 qt/a		V2						
11	Harness Extra 5.6	2.1 lb ai/a	1.5 qt/a		V2	B	6 bc	95 a	100 a	100 a	100 a
11	Roundup PowerMax	0.75 lb ae/a	1.33 pt/a		V2						

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Pest Type	W Weed	W Weed	W Weed	W Weed					
Pest Code	SETFA	AMBTR	CHEAL	AMARE					
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>					
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>	Redroot pigweed					
Crop Code	ZEAMX								
BBCH Scale	BCOR								
Crop Scientific Name	Zea mays								
Crop Name	Corn								
Rating Date	Jun-5-2012	Jun-5-2012	Jun-5-2012	Jun-5-2012					
Rating Type	PHYTO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%					
Number of Subsamples	1	1	1	1					
Rating Timing	AT POST	AT POST	AT POST	AT POST					
Days After First/Last Applic.	25 6	25 6	25 6	25 6					
Trt-Eval Interval	25 DA-A	25 DA-A	25 DA-A	25 DA-A					
Plant-Eval Interval	25 DP-1	25 DP-1	25 DP-1	25 DP-1					
Days After Emergence	19 DE-1	19 DE-1	19 DE-1	19 DE-1					
Number of Decimals	0	0	0	0					
Trt Treatment	Rate	Other Other	Growth Appl	1	2	3	4	5	
No. Name	Rate Unit	Rate Rate Unit	Stage Code						
11 Status	0.35 lb ai/a	10 oz/a	V2						
11 N-PAK AMS	2.5 % v/v	1.5 qt/a	V2						
12 Corvus	0.076 lb ai/a	3.7 oz/a	V2	B	11 a	99 a	100 a	100 a	
12 Durango DMA	0.75 lb ae/a	1.5 pt/a	V2						
12 N-PAK AMS	2.5 % v/v	1.5 qt/a	V2						
13 Expert	3.66 lb ai/a	3 qt/a	V2	B	2 def	93 a	91 a	100 a	
13 N-PAK AMS	2.5 % v/v	1.5 qt/a	V2						
14 Hallex GT	2.2 lb ai/a	4 pt/a	V2	B	3 de	98 a	98 a	100 a	
14 N-PAK AMS	2.5 % v/v	1.5 qt/a	V2						
14 NIS	0.25 % v/v	4.8 oz/a	V2						
15 UTC					1 ef	0 e	0 f	0 d	
16 Surestart	1.06 lb ai/a	2 pt/a	V4	C					
16 Durango DMA	0.75 lb ae/a	1.5 pt/a	V4	C					
16 N-PAK AMS	2.5 % v/v	1.5 qt/a	V4	C					
17 Surestart	1.06 lb ai/a	2 pt/a	V4	C					
17 GF-2726	1.46 lb ae/a	3.5 pt/a	V4	C					
17 N-PAK AMS	2.5 % v/v	1.5 qt/a	V4	C					
18 Harness Extra 5.6	2.1 lb ai/a	1.5 qt/a	V4	C					
18 Roundup PowerMax	0.75 lb ae/a	1.33 pt/a	V4	C					
18 Status	0.35 lb ai/a	10 oz/a	V4	C					
18 N-PAK AMS	2.5 % v/v	1.5 qt/a	V4	C					
19 Expert	3.66 lb ai/a	3 qt/a	V4	C					
19 N-PAK AMS	2.5 % v/v	1.5 qt/a	V4	C					
20 Hallex GT	2.2 lb ai/a	4 pt/a	V4	C					
20 N-PAK AMS	2.5 % v/v	1.5 qt/a	V4						
20 NIS	0.25 % v/v	4.8 oz/a	V4						
21 Durango DMA	0.75 lb ae/a	1.5 pt/a	V4	C					
21 N-PAK AMS	2.5 % v/v	1.5 qt/a	V4	C					
22 GF-2726	1.46 lb ae/a	3.5 pt/a	V4	C					
22 N-PAK AMS	2.5 % v/v	1.5 qt/a	V4	C					
23 Roundup PowerMax	0.75 lb ae/a	1.33 pt/a	V4	C					
23 Clarity	0.5 lb ai/a	1 pt/a	V4						
23 N-PAK AMS	2.5 % v/v	1.5 qt/a	V4						
24 UTC									
LSD (P=.05)					2.9	17.6	16.4	20.4	19.1
Standard Deviation					2.1	12.3	11.5	14.3	13.4
CV					90.06	19.37	21.33	22.71	22.2

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed						
Pest Code	POLPY	SETFA	AMBTR	CHEAL	AMARE						
Pest Scientific Name	Persicaria pen->	Setaria faberi	Ambrosia trifi->	Chenopodium al->	Amaranthus ret->						
Pest Name	Pennsylvania s>	Giant foxtail	Giant ragweed	Common lambsqu->	Redroot pigweed						
Crop Code											
BBCH Scale											
Crop Scientific Name											
Crop Name											
Rating Date	Jun-5-2012	Jun-19-2012	Jun-19-2012	Jun-19-2012	Jun-19-2012						
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO						
Rating Unit	%	%	%	%	%						
Number of Subsamples	1	1	1	1	1						
Rating Timing	AT POST										
Days After First/Last Applic.	25 6	39 13	39 13	39 13	39 13						
Trt-Eval Interval	25 DA-A	13 DA-C	13 DA-C	13 DA-C	13 DA-C						
Plant-Eval Interval	25 DP-1	39 DP-1	39 DP-1	39 DP-1	39 DP-1						
Days After Emergence	19 DE-1	33 DE-1	33 DE-1	33 DE-1	33 DE-1						
Number of Decimals	0	0	0	0	0						
Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Growth Stage	Appl Code	6	7	8	9	10
1	Surestart	1.06 lb ai/a	2 pt/a		PRE	A	45 c	100 a	77 de	96 abc	100 a
1	Durango DMA	0.75 lb ae/a	1.5 pt/a		V4	C					
1	N-PAK AMS	2.5 % v/v	1.5 qt/a		V4						
2	Surestart	1.06 lb ai/a	2 pt/a		PRE	A	65 b	96 ab	86 a-d	100 a	100 a
2	GF-2726	1.46 lb ae/a	3.5 pt/a		V4	C					
2	N-PAK AMS	2.5 % v/v	1.5 qt/a		V4						
3	Harness Extra 5.6	2.1 lb ai/a	1.5 qt/a		PRE	A	73 b	100 a	95 ab	100 a	100 a
3	Roundup PowerMax	0.75 lb ae/a	1.33 pt/a		V4	C					
3	Clarity	0.5 lb ai/a	1 pt/a		V4						
3	N-PAK AMS	2.5 % v/v	1.5 qt/a		V4						
4	Harness Extra 5.6	2.1 lb ai/a	1.5 qt/a		PRE	A	68 b	100 a	95 ab	100 a	100 a
4	Roundup PowerMax	0.75 lb ae/a	1.33 pt/a		V4	C					
4	Status	0.35 lb ai/a	10 oz/a		V4						
4	N-PAK AMS	2.5 % v/v	1.5 qt/a		V4						
5	Corvus	0.076 lb ai/a	3.7 oz/a		PRE	A	83 ab	96 abc	78 cde	94 bc	100 a
5	Durango DMA	0.75 lb ae/a	1.5 pt/a		V4	C					
5	N-PAK AMS	2.5 % v/v	1.5 qt/a		V4						
6	Lumax	1.97 lb ai/a	2 qt/a		PRE	A	70 b	100 a	76 de	100 a	100 a
6	Durango DMA	0.75 lb ae/a	1.5 pt/a		V4	C					
6	N-PAK AMS	2.5 % v/v	1.5 qt/a		V4						
7	Verdict	0.52 lb ai/a	12 oz/a		PRE	A	70 b	98 ab	69 e	100 a	100 a
7	Durango DMA	0.75 lb ae/a	1.5 pt/a		V4	C					
7	N-PAK AMS	2.5 % v/v	1.5 qt/a		V4						
8	UTC						0 d	0 f	0 f	0 d	0 d
9	Surestart	1.06 lb ai/a	2 pt/a		V2	B	100 a	100 a	91 a-d	100 a	100 a
9	Durango DMA	0.75 lb ae/a	1.5 pt/a		V2						
9	N-PAK AMS	2.5 % v/v	1.5 qt/a		V2						
10	Surestart	1.06 lb ai/a	2 pt/a		V2	B	100 a	96 ab	96 a	100 a	100 a
10	GF-2726	1.46 lb ae/a	3.5 pt/a		V2						
10	N-PAK AMS	2.5 % v/v	1.5 qt/a		V2						
11	Harness Extra 5.6	2.1 lb ai/a	1.5 qt/a		V2	B	100 a	91 bcd	85 a-d	100 a	100 a
11	Roundup PowerMax	0.75 lb ae/a	1.33 pt/a		V2						

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Pest Code	POLPY	SETFA	AMBTR	CHEAL	AMARE				
Pest Scientific Name	Persicaria pen>	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>				
Pest Name	Pennsylvania s>	Giant foxtail	Giant ragweed	Common lambsqu>	Redroot pigweed				
Crop Code									
BBCH Scale									
Crop Scientific Name									
Crop Name									
Rating Date	Jun-5-2012	Jun-19-2012	Jun-19-2012	Jun-19-2012	Jun-19-2012				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1				
Rating Timing	AT POST								
Days After First/Last Applic.	25 6	39 13	39 13	39 13	39 13				
Trt-Eval Interval	25 DA-A	13 DA-C	13 DA-C	13 DA-C	13 DA-C				
Plant-Eval Interval	25 DP-1	39 DP-1	39 DP-1	39 DP-1	39 DP-1				
Days After Emergence	19 DE-1	33 DE-1	33 DE-1	33 DE-1	33 DE-1				
Number of Decimals	0	0	0	0	0				
Trt Treatment	Rate	Other Other	Growth Appl						
No. Name	Rate Unit	Rate Rate	Unit Stage	Code	6	7	8	9	10
11 Status	0.35 lb ai/a	10 oz/a	V2						
11 N-PAK AMS	2.5 % v/v	1.5 qt/a	V2						
12 Corvus	0.076 lb ai/a	3.7 oz/a	V2	B	100 a	99 ab	91 a-d	100 a	100 a
12 Durango DMA	0.75 lb ae/a	1.5 pt/a	V2						
12 N-PAK AMS	2.5 % v/v	1.5 qt/a	V2						
13 Expert	3.66 lb ai/a	3 qt/a	V2	B	100 a	95 abc	76 de	100 a	100 a
13 N-PAK AMS	2.5 % v/v	1.5 qt/a	V2						
14 Halex GT	2.2 lb ai/a	4 pt/a	V2	B	100 a	100 a	80 b-e	100 a	93 a
14 N-PAK AMS	2.5 % v/v	1.5 qt/a	V2						
14 NIS	0.25 % v/v	4.8 oz/a	V2						
15 UTC					0 d	0 f	0 f	0 d	0 d
16 Surestart	1.06 lb ai/a	2 pt/a	V4	C		100 a	78 cde	100 a	100 a
16 Durango DMA	0.75 lb ae/a	1.5 pt/a	V4	C					
16 N-PAK AMS	2.5 % v/v	1.5 qt/a	V4	C					
17 Surestart	1.06 lb ai/a	2 pt/a	V4	C		99 ab	86 a-d	99 ab	100 a
17 GF-2726	1.46 lb ae/a	3.5 pt/a	V4	C					
17 N-PAK AMS	2.5 % v/v	1.5 qt/a	V4	C					
18 Harness Extra 5.6	2.1 lb ai/a	1.5 qt/a	V4	C		95 abc	93 abc	100 a	100 a
18 Roundup PowerMax	0.75 lb ae/a	1.33 pt/a	V4	C					
18 Status	0.35 lb ai/a	10 oz/a	V4	C					
18 N-PAK AMS	2.5 % v/v	1.5 qt/a	V4	C					
19 Expert	3.66 lb ai/a	3 qt/a	V4	C		86 de	81 a-e	100 a	100 a
19 N-PAK AMS	2.5 % v/v	1.5 qt/a	V4						
20 Halex GT	2.2 lb ai/a	4 pt/a	V4	C		100 a	79 cde	100 a	99 a
20 N-PAK AMS	2.5 % v/v	1.5 qt/a	V4						
20 NIS	0.25 % v/v	4.8 oz/a	V4						
21 Durango DMA	0.75 lb ae/a	1.5 pt/a	V4	C		88 cde	80 b-e	94 bc	68 c
21 N-PAK AMS	2.5 % v/v	1.5 qt/a	V4	C					
22 GF-2726	1.46 lb ae/a	3.5 pt/a	V4	C		83 e	85 a-d	93 c	78 b
22 N-PAK AMS	2.5 % v/v	1.5 qt/a	V4	C					
23 Roundup PowerMax	0.75 lb ae/a	1.33 pt/a	V4	C		93 a-d	96 a	100 a	93 a
23 Clarity	0.5 lb ai/a	1 pt/a	V4						
23 N-PAK AMS	2.5 % v/v	1.5 qt/a	V4						
24 UTC						0 f	0 f	0 d	0 d
LSD (P=.05)					17.6	8.0	15.1	5.6	8.3
Standard Deviation					12.3	5.7	10.7	3.9	5.9
CV					17.22	6.77	14.48	4.54	6.96

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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	Z		E		M		M				
BBCH Scale	BCOR		BCOR		BCOR		BCOR				
Crop Scientific Name	Zea mays		Zea mays		Zea mays		Zea mays				
Crop Name	Corn		Corn		Corn		Corn				
Rating Date	Jun-19-2012		Jul-2-2012		Jul-2-2012		Jul-2-2012				
Rating Type	CONTRO		PHYDEF		CONTRO		CONTRO				
Rating Unit	%		%		%		%				
Number of Subsamples	1		1		1		1				
Rating Timing											
Days After First/Last Applic.	39 13		52 26		52 26		52 26				
Trt-Eval Interval	13 DA-C		26 DA-C		26 DA-C		26 DA-C				
Plant-Eval Interval	39 DP-1		52 DP-1		52 DP-1		52 DP-1				
Days After Emergence	33 DE-1		46 DE-1		46 DE-1		46 DE-1				
Number of Decimals	0		0		0		0				
Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Growth Unit	Appl Code	11	12	13	14	15
1	Surestart	1.06 lb ai/a	2 pt/a		PRE	A	100 a	0 d	98 abc	93 a-d	97 a
1	Durango DMA	0.75 lb ae/a	1.5 pt/a		V4	C					
1	N-PAK AMS	2.5 % v/v	1.5 qt/a		V4						
2	Surestart	1.06 lb ai/a	2 pt/a		PRE	A	100 a	0 d	98 abc	92 a-d	100 a
2	GF-2726	1.46 lb ae/a	3.5 pt/a		V4	C					
2	N-PAK AMS	2.5 % v/v	1.5 qt/a		V4						
3	Harness Extra 5.6	2.1 lb ai/a	1.5 qt/a		PRE	A	100 a	20 a	98 abc	100 a	100 a
3	Roundup PowerMax	0.75 lb ae/a	1.33 pt/a		V4	C					
3	Clarity	0.5 lb ai/a	1 pt/a		V4						
3	N-PAK AMS	2.5 % v/v	1.5 qt/a		V4						
4	Harness Extra 5.6	2.1 lb ai/a	1.5 qt/a		PRE	A	100 a	6 c	99 ab	97 ab	100 a
4	Roundup PowerMax	0.75 lb ae/a	1.33 pt/a		V4	C					
4	Status	0.35 lb ai/a	10 oz/a		V4						
4	N-PAK AMS	2.5 % v/v	1.5 qt/a		V4						
5	Corvus	0.076 lb ai/a	3.7 oz/a		PRE	A	100 a	0 d	93 abc	87 b-f	96 a
5	Durango DMA	0.75 lb ae/a	1.5 pt/a		V4	C					
5	N-PAK AMS	2.5 % v/v	1.5 qt/a		V4						
6	Lumax	1.97 lb ai/a	2 qt/a		PRE	A	100 a	0 d	100 a	97 ab	100 a
6	Durango DMA	0.75 lb ae/a	1.5 pt/a		V4	C					
6	N-PAK AMS	2.5 % v/v	1.5 qt/a		V4						
7	Verdict	0.52 lb ai/a	12 oz/a		PRE	A	100 a	1 d	96 abc	86 def	100 a
7	Durango DMA	0.75 lb ae/a	1.5 pt/a		V4	C					
7	N-PAK AMS	2.5 % v/v	1.5 qt/a		V4						
8	UTC						0 b	0 d	0 f	0 g	0 d
9	Surestart	1.06 lb ai/a	2 pt/a		V2	B	100 a	0 d	100 a	92 a-e	99 a
9	Durango DMA	0.75 lb ae/a	1.5 pt/a		V2						
9	N-PAK AMS	2.5 % v/v	1.5 qt/a		V2						
10	Surestart	1.06 lb ai/a	2 pt/a		V2	B	100 a	0 d	98 abc	96 abc	100 a
10	GF-2726	1.46 lb ae/a	3.5 pt/a		V2						
10	N-PAK AMS	2.5 % v/v	1.5 qt/a		V2						
11	Harness Extra 5.6	2.1 lb ai/a	1.5 qt/a		V2	B	100 a	0 d	94 abc	91 a-f	100 a
11	Roundup PowerMax	0.75 lb ae/a	1.33 pt/a		V2						

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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									
BBCH Scale	BCOR									
Crop Scientific Name	Zea mays									
Crop Name	Corn									
Rating Date	Jun-19-2012	Jul-2-2012	Jul-2-2012	Jul-2-2012						
Rating Type	CONTRO	PHYDEF	CONTRO	CONTRO						
Rating Unit	%	%	%	%						
Number of Subsamples	1	1	1	1						
Rating Timing										
Days After First/Last Applic.	39 13	52 26	52 26	52 26						
Trt-Eval Interval	13 DA-C	26 DA-C	26 DA-C	26 DA-C						
Plant-Eval Interval	39 DP-1	52 DP-1	52 DP-1	52 DP-1						
Days After Emergence	33 DE-1	46 DE-1	46 DE-1	46 DE-1						
Number of Decimals	0	0	0	0						
Trt Treatment	Rate	Other	Other	Growth	Appl	11	12	13	14	15
No. Name	Rate Unit	Rate	Rate Unit	Stage	Code					
11 Status	0.35 lb ai/a	10 oz/a	V2							
11 N-PAK AMS	2.5 % v/v	1.5 qt/a	V2							
12 Corvus	0.076 lb ai/a	3.7 oz/a	V2	B		100 a	0 d	97 abc	94 a-d	100 a
12 Durango DMA	0.75 lb ae/a	1.5 pt/a	V2							
12 N-PAK AMS	2.5 % v/v	1.5 qt/a	V2							
13 Expert	3.66 lb ai/a	3 qt/a	V2	B		100 a	0 d	99 ab	87 c-f	100 a
13 N-PAK AMS	2.5 % v/v	1.5 qt/a	V2							
14 Hallex GT	2.2 lb ai/a	4 pt/a	V2	B		100 a	0 d	95 abc	81 ef	100 a
14 N-PAK AMS	2.5 % v/v	1.5 qt/a	V2							
14 NIS	0.25 % v/v	4.8 oz/a	V2							
15 UTC						0 b	0 d	0 f	0 g	0 d
16 Surestart	1.06 lb ai/a	2 pt/a	V4	C		100 a	1 d	98 abc	92 a-d	94 ab
16 Durango DMA	0.75 lb ae/a	1.5 pt/a	V4	C						
16 N-PAK AMS	2.5 % v/v	1.5 qt/a	V4	C						
17 Surestart	1.06 lb ai/a	2 pt/a	V4	C		100 a	0 d	96 abc	91 a-f	90 bc
17 GF-2726	1.46 lb ae/a	3.5 pt/a	V4	C						
17 N-PAK AMS	2.5 % v/v	1.5 qt/a	V4	C						
18 Harness Extra 5.6	2.1 lb ai/a	1.5 qt/a	V4	C		100 a	0 d	95 abc	91 a-f	100 a
18 Roundup PowerMax	0.75 lb ae/a	1.33 pt/a	V4	C						
18 Status	0.35 lb ai/a	10 oz/a	V4	C						
18 N-PAK AMS	2.5 % v/v	1.5 qt/a	V4	C						
19 Expert	3.66 lb ai/a	3 qt/a	V4	C		100 a	0 d	93 bc	85 def	99 a
19 N-PAK AMS	2.5 % v/v	1.5 qt/a	V4							
20 Hallex GT	2.2 lb ai/a	4 pt/a	V4	C		100 a	0 d	92 cd	81 f	88 bc
20 N-PAK AMS	2.5 % v/v	1.5 qt/a	V4							
20 NIS	0.25 % v/v	4.8 oz/a	V4							
21 Durango DMA	0.75 lb ae/a	1.5 pt/a	V4	C		100 a	0 d	83 e	87 b-f	85 c
21 N-PAK AMS	2.5 % v/v	1.5 qt/a	V4	C						
22 GF-2726	1.46 lb ae/a	3.5 pt/a	V4	C		100 a	0 d	83 e	88 b-f	84 c
22 N-PAK AMS	2.5 % v/v	1.5 qt/a	V4	C						
23 Roundup PowerMax	0.75 lb ae/a	1.33 pt/a	V4	C		100 a	16 b	86 de	95 a-d	96 a
23 Clarity	0.5 lb ai/a	1 pt/a	V4							
23 N-PAK AMS	2.5 % v/v	1.5 qt/a	V4							
24 UTC						0 b	0 d	0 f	0 g	0 d
LSD (P=.05)						0.0	2.8	6.3	10.4	6.5
Standard Deviation						0.0	2.0	4.4	7.4	4.6
CV						0.0	106.07	5.36	9.29	5.43

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Pest Type	W Weed	W Weed							
Pest Code	AMARE	POLPY							
Pest Scientific Name	Amaranthus ret>	Persicaria pen>							
Pest Name	Redroot pigweed	Pennsylvania s>							
Crop Code									
BBCH Scale									
Crop Scientific Name									
Crop Name									
Rating Date	Jul-2-2012	Jul-2-2012							
Rating Type	CONTRO	CONTRO							
Rating Unit	%	%							
Number of Subsamples	1	1							
Rating Timing									
Days After First/Last Applic.	52 26	52 26							
Trt-Eval Interval	26 DA-C	26 DA-C							
Plant-Eval Interval	52 DP-1	52 DP-1							
Days After Emergence	46 DE-1	46 DE-1							
Number of Decimals	0	0							
Trt No.	Treatment Name	Rate Rate	Other Rate	Other Rate	Growth Stage	Appl Code	16	17	18
1	Surestart	1.06 lb ai/a	2 pt/a		PRE	A	100 a	100 a	
1	Durango DMA	0.75 lb ae/a	1.5 pt/a		V4	C			
1	N-PAK AMS	2.5 % v/v	1.5 qt/a		V4				
2	Surestart	1.06 lb ai/a	2 pt/a		PRE	A	100 a	100 a	
2	GF-2726	1.46 lb ae/a	3.5 pt/a		V4	C			
2	N-PAK AMS	2.5 % v/v	1.5 qt/a		V4				
3	Harness Extra 5.6	2.1 lb ai/a	1.5 qt/a		PRE	A	100 a	100 a	
3	Roundup PowerMax	0.75 lb ae/a	1.33 pt/a		V4	C			
3	Clarity	0.5 lb ai/a	1 pt/a		V4				
3	N-PAK AMS	2.5 % v/v	1.5 qt/a		V4				
4	Harness Extra 5.6	2.1 lb ai/a	1.5 qt/a		PRE	A	100 a	100 a	
4	Roundup PowerMax	0.75 lb ae/a	1.33 pt/a		V4	C			
4	Status	0.35 lb ai/a	10 oz/a		V4				
4	N-PAK AMS	2.5 % v/v	1.5 qt/a		V4				
5	Corvus	0.076 lb ai/a	3.7 oz/a		PRE	A	100 a	100 a	
5	Durango DMA	0.75 lb ae/a	1.5 pt/a		V4	C			
5	N-PAK AMS	2.5 % v/v	1.5 qt/a		V4				
6	Lumax	1.97 lb ai/a	2 qt/a		PRE	A	100 a	95 b	
6	Durango DMA	0.75 lb ae/a	1.5 pt/a		V4	C			
6	N-PAK AMS	2.5 % v/v	1.5 qt/a		V4				
7	Verdict	0.52 lb ai/a	12 oz/a		PRE	A	100 a	100 a	
7	Durango DMA	0.75 lb ae/a	1.5 pt/a		V4	C			
7	N-PAK AMS	2.5 % v/v	1.5 qt/a		V4				
8	UTC						0 e	0 c	
9	Surestart	1.06 lb ai/a	2 pt/a		V2	B	100 a	100 a	
9	Durango DMA	0.75 lb ae/a	1.5 pt/a		V2				
9	N-PAK AMS	2.5 % v/v	1.5 qt/a		V2				
10	Surestart	1.06 lb ai/a	2 pt/a		V2	B	100 a	100 a	
10	GF-2726	1.46 lb ae/a	3.5 pt/a		V2				
10	N-PAK AMS	2.5 % v/v	1.5 qt/a		V2				
11	Harness Extra 5.6	2.1 lb ai/a	1.5 qt/a		V2	B	100 a	100 a	
11	Roundup PowerMax	0.75 lb ae/a	1.33 pt/a		V2				

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Pest Type	W Weed	W Weed								
Pest Code	AMARE	POLPY								
Pest Scientific Name	Amaranthus ret>	Persicaria pen>								
Pest Name	Redroot pigweed	Pennsylvania s>								
Crop Code										
BBCH Scale										
Crop Scientific Name										
Crop Name										
Rating Date	Jul-2-2012	Jul-2-2012								
Rating Type	CONTRO	CONTRO								
Rating Unit	%	%								
Number of Subsamples	1	1								
Rating Timing										
Days After First/Last Applic.	52 26	52 26								
Trt-Eval Interval	26 DA-C	26 DA-C								
Plant-Eval Interval	52 DP-1	52 DP-1								
Days After Emergence	46 DE-1	46 DE-1								
Number of Decimals	0	0								
Trt No.	Treatment Name	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Stage	Appl Code	16	17	18
11	Status	0.35 lb ai/a		10 oz/a		V2				
11	N-PAK AMS	2.5 % v/v		1.5 qt/a		V2				
12	Corvus	0.076 lb ai/a		3.7 oz/a		V2	B	100 a	100 a	
12	Durango DMA	0.75 lb ae/a		1.5 pt/a		V2				
12	N-PAK AMS	2.5 % v/v		1.5 qt/a		V2				
13	Expert	3.66 lb ai/a		3 qt/a		V2	B	100 a	100 a	
13	N-PAK AMS	2.5 % v/v		1.5 qt/a		V2				
14	Halex GT	2.2 lb ai/a		4 pt/a		V2	B	100 a	100 a	
14	N-PAK AMS	2.5 % v/v		1.5 qt/a		V2				
14	NIS	0.25 % v/v		4.8 oz/a		V2				
15	UTC							0 e	0 c	
16	Surestart	1.06 lb ai/a		2 pt/a		V4	C	100 a	100 a	
16	Durango DMA	0.75 lb ae/a		1.5 pt/a		V4	C			
16	N-PAK AMS	2.5 % v/v		1.5 qt/a		V4	C			
17	Surestart	1.06 lb ai/a		2 pt/a		V4	C	100 a	100 a	
17	GF-2726	1.46 lb ae/a		3.5 pt/a		V4	C			
17	N-PAK AMS	2.5 % v/v		1.5 qt/a		V4	C			
18	Harness Extra 5.6	2.1 lb ai/a		1.5 qt/a		V4	C	100 a	100 a	
18	Roundup PowerMax	0.75 lb ae/a		1.33 pt/a		V4	C			
18	Status	0.35 lb ai/a		10 oz/a		V4	C			
18	N-PAK AMS	2.5 % v/v		1.5 qt/a		V4	C			
19	Expert	3.66 lb ai/a		3 qt/a		V4	C	100 a	100 a	
19	N-PAK AMS	2.5 % v/v		1.5 qt/a		V4				
20	Halex GT	2.2 lb ai/a		4 pt/a		V4	C	96 ab	99 ab	
20	N-PAK AMS	2.5 % v/v		1.5 qt/a		V4				
20	NIS	0.25 % v/v		4.8 oz/a		V4				
21	Durango DMA	0.75 lb ae/a		1.5 pt/a		V4	C	65 d	95 b	
21	N-PAK AMS	2.5 % v/v		1.5 qt/a		V4	C			
22	GF-2726	1.46 lb ae/a		3.5 pt/a		V4	C	90 bc	100 a	
22	N-PAK AMS	2.5 % v/v		1.5 qt/a		V4	C			
23	Roundup PowerMax	0.75 lb ae/a		1.33 pt/a		V4	C	84 c	100 a	
23	Clarity	0.5 lb ai/a		1 pt/a		V4				
23	N-PAK AMS	2.5 % v/v		1.5 qt/a		V4				
24	UTC							0 e	0 c	
LSD (P=.05)								7.6	4.1	.
Standard Deviation								5.4	2.9	.
CV								6.32	3.31	.