

Application Description

	A	B
Application Date:	5-8-2015	6-10-2015
Appl. Start Time:	9:00 AM	9:40 AM
Appl. Stop Time:	10:00 AM	9:55 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE ATPL	POST
Application Placement:	BROSOI	BROFOL
Air Temperature, Unit:	73 F	73 F
% Relative Humidity:	66	72
Wind Velocity, Unit:	1.3 MPH	9 MPH
Wind Direction:	S	SW
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	61 F	61 F
Soil Moisture:	DRY	DRY
% Cloud Cover:	10	5
Next Moisture Occurred On:	5-11-2015	6-12-2015
Time to Next Moisture, Unit:	3 DAY	2 DAY

Crop Stage At Each Application

	A		B	
Crop 1 Code, BBCH Scale:	GLXMA	BSOY	GLXMA	BSOY
Stage Scale Used:			BBCH	
Stage Majority, Percent:			14	
Stage Minimum, Percent:			13	
Stage Maximum, Percent:			14	
Height, Unit:			6	IN
Height Minimum, Maximum:			6	8

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:		16
Stage Minimum, Percent:		14
Stage Maximum, Percent:		18
Height, Unit:		4 IN
Height Minimum, Maximum:		2 8
Density, Unit:	44.67 M2	
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:		18
Stage Minimum, Percent:		16
Stage Maximum, Percent:		19
Height, Unit:		6 IN
Height Minimum, Maximum:		4 10
Density, Unit:	2.67 M2	
Pest 3 Code, Type, Scale:	AMARE W	AMARE W
Stage Majority, Percent:		16
Stage Minimum, Percent:		14
Stage Maximum, Percent:		18
Height, Unit:		3 IN
Height Minimum, Maximum:		2 4
Density, Unit:	2 M2	
Pest 4 Code, Type, Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:		16
Stage Minimum, Percent:		16
Stage Maximum, Percent:		18
Height, Unit:		3 IN
Height Minimum, Maximum:		2 4
Density, Unit:	1.33 M2	
Pest 5 Code, Type, Scale:	IPOHE W	IPOHE W
Stage Majority, Percent:		16
Stage Minimum, Percent:		14
Stage Maximum, Percent:		16
Height, Unit:		4 IN
Height Minimum, Maximum:		2 4
Pest 6 Code, Type, Scale:	SIDSP W	SIDSP W
Stage Majority, Percent:		16
Stage Minimum, Percent:		14
Stage Maximum, Percent:		16
Height, Unit:		2 IN
Height Minimum, Maximum:		2 4
Pest 7 Code, Type, Scale:	POLPY W	POLPY W
Stage Majority, Percent:		16
Stage Minimum, Percent:		14
Stage Maximum, Percent:		18
Height, Unit:		4 IN
Height Minimum, Maximum:		2 6
Density, Unit:	1 M2	
Pest 8 Code, Type, Scale:	ABUTH W	ABUTH W
Stage Majority, Percent:		16
Stage Minimum, Percent:		14
Stage Maximum, Percent:		16
Height, Unit:		4 IN
Height Minimum, Maximum:		2 4

Application Equipment

	A	B
Appl. Equipment:	6' BACKPACK	10' BACKPACK
Equipment Type:	BACCAI	BACCAI
Operation Pressure, Unit:	44 PSI	50 PSI
Nozzle Type:	AIXR	AIXR
Nozzle Size:	11015	11015
Nozzle Spacing, Unit:	18 IN	18 IN
Nozzles/Row:	4	6
Boom Length, Unit:	6.67 FT	10 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 gal/ac	15 gal/ac
Mix Size, Unit:	1 liters	2 liters
Propellant:	COMCO2	COMCO2

Compare broadaxe XC to Syngenta and competitive herbicide programs, DAS Showcase treatments

Trial ID: 15 PRPOS1 Location: F-7 EAST END Trial Year: 2015
 Protocol ID: 15 PRPOS1 Investigator: Dr. Mark M. Loux
 Project ID: ZSOY80AD-2015US/DAS Showc Study Director: Bryan Reeb
 Sponsor Contact: Dain Bruns, Syn/Leah Granke, Dow

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
BBCH Scale				BSOY
Crop Scientific Name				Glycine max
Crop Name				Soybean
Crop Variety				SCS 9363
Description				RR
Part Rated				PLANT C
Rating Date	6-4-2015	6-4-2015	6-4-2015	6-4-2015
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	27 27	27 27	27 27	27 27
Trt-Eval Interval	27 DA-A	27 DA-A	27 DA-A	27 DA-A
Plant-Eval Interval	28 DP-1	28 DP-1	28 DP-1	28 DP-1
Days After Emergence	20 DE-1	20 DE-1	20 DE-1	20 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Description	1	2	3	4
1	Broadaxe XC	19 oz/a		A	PRE		76.7 a-d	56.7 a	100.0 a	0.0 c
1	Flexstar GT 3.5	3.5 pt/a		B	MPO 4-6" wds					
1	Destiny HC	0.3 qt/a		B	MPO 4-6" wds					
1	N-pak ams	1.5 qt/a		B	MPO 4-6" wds					
2	Broadaxe XC	25 oz/a		A	PRE		80.0 abc	60.0 a	100.0 a	0.0 c
2	Flexstar GT 3.5	3.5 pt/a		B	MPO 4-6" wds					
2	Destiny HC	0.3 qt/a		B	MPO 4-6" wds					
2	N-pak ams	1.5 qt/a		B	MPO 4-6" wds					
3	Tricor	5 oz/a		A	PRE		81.7 abc	56.7 a	100.0 a	0.0 c
3	Broadaxe XC	19 oz/a		A	PRE					
3	Flexstar GT 3.5	3.5 pt/a		B	MPO 4-6" wds					
3	Destiny HC	0.3 qt/a		B	MPO 4-6" wds					
3	N-pak ams	1.5 qt/a		B	MPO 4-6" wds					
4	Tricor	3 oz/a		A	PRE		75.0 a-e	56.7 a	90.0 a	0.0 c
4	Broadaxe XC	25 oz/a		A	PRE					
4	Flexstar GT 3.5	3.5 pt/a		B	MPO 4-6" wds					
4	Destiny HC	0.3 qt/a		B	MPO 4-6" wds					
4	N-pak ams	1.5 qt/a		B	MPO 4-6" wds					
5	Tricor	5 oz/a		A	PRE		88.7 a	60.0 a	100.0 a	0.0 c
5	Broadaxe XC	25 oz/a		A	PRE					
5	Flexstar GT 3.5	3.5 pt/a		B	MPO 4-6" wds					
5	Destiny HC	0.3 qt/a		B	MPO 4-6" wds					
5	N-pak ams	1.5 qt/a		B	MPO 4-6" wds					
6	Classic	1.25 oz/a		A	PRE		80.0 abc	70.0 a	100.0 a	0.0 c
6	Broadaxe XC	19 oz/a		A	PRE					
6	Flexstar GT 3.5	3.5 pt/a		B	MPO 4-6" wds					
6	Destiny HC	0.3 qt/a		B	MPO 4-6" wds					
6	N-pak ams	1.5 qt/a		B	MPO 4-6" wds					

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.
 Missing data estimates are included in columns: Yates=11,12,13,14,15
 Could not calculate LSD (% mean diff) for columns 13,14,15 because error mean square = 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
BBCH Scale			BSOY
Crop Scientific Name			Glycine max
Crop Name			Soybean
Crop Variety			SCS 9363
Description			RR
Part Rated			PLANT C
Rating Date	6-4-2015	6-4-2015	6-4-2015
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	27 27	27 27	27 27
Trt-Eval Interval	27 DA-A	27 DA-A	27 DA-A
Plant-Eval Interval	28 DP-1	28 DP-1	28 DP-1
Days After Emergence	20 DE-1	20 DE-1	20 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Description	1	2	3	4
7	Classic	1.25 oz/a		A	PRE		87.0 ab	60.0 a	100.0 a	0.0 c
7	Broadaxe XC	25 oz/a		A	PRE					
7	Flexstar GT 3.5	3.5 pt/a		B	MPO 4-6" wds					
7	Destiny HC	0.3 qt/a		B	MPO 4-6" wds					
7	N-pak ams	1.5 qt/a		B	MPO 4-6" wds					
8	Boundary	1.75 pt/a		A	PRE		70.0 b-f	53.3 a	80.0 a	0.0 c
8	Flexstar GT 3.5	3.5 pt/a		B	MPO 4-6" wds					
8	Destiny HC	0.3 qt/a		B	MPO 4-6" wds					
8	N-pak ams	1.5 qt/a		B	MPO 4-6" wds					
9	Valor XLT @ 3 oz						60.0 def	70.0 a	100.0 a	0.0 c
9	Valor SX	1.76 oz/a		A	PRE					
9	Classic	1.24 oz/a		A	PRE					
9	Flexstar GT 3.5	3.5 pt/a		B	MPO 4-6" wds					
9	Destiny HC	0.3 qt/a		B	MPO 4-6" wds					
9	N-pak ams	1.5 qt/a		B	MPO 4-6" wds					
10	Sonic	4 oz/a		A	PRE		56.7 efg	66.7 a	90.0 a	0.0 c
10	Flexstar GT 3.5	3.5 pt/a		B	MPO 4-6" wds					
10	Destiny HC	0.3 qt/a		B	MPO 4-6" wds					
10	N-pak ams	1.5 qt/a		B	MPO 4-6" wds					
11	Sonic	4.5 oz/a		A	PRE		40.0 gh	71.7 a	100.0 a	0.0 c
11	Durango DMA	32 oz/a		B	MPO 4-6" wds					
11	N-pak ams	1.5 qt/a		B	MPO 4-6" wds					
12	Sonic	6 oz/a		A	PRE		30.0 h	56.7 a	100.0 a	0.0 c
12	Durango DMA	32 oz/a		B	MPO 4-6" wds					
12	N-pak ams	1.5 qt/a		B	MPO 4-6" wds					
13	Surveil Premix	2.8 oz/a		A	PRE		63.3 c-f	60.0 a	100.0 a	8.7 b
13	Durango DMA	32 oz/a		B	MPO 4-6" wds					
13	N-pak ams	1.5 qt/a		B	MPO 4-6" wds					

Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	AMBTR	CHEAL	HIBTR			
Pest Scientific Name	Setaria faberi	Ambrosia trif>	Chenopodium al>	Hibiscus trion>			
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>	Venice mallow			
Crop Code							
BBCH Scale							
Crop Scientific Name							
Crop Name							
Crop Variety							
Description							
Part Rated							
Rating Date	6-11-2015	6-11-2015	6-11-2015	6-11-2015			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%			
Number of Subsamples	1	1	1	1			
Days After First/Last Applic.	34 1	34 1	34 1	34 1			
Trt-Eval Interval							
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	35 DP-1			
Days After Emergence	27 DE-1	27 DE-1	27 DE-1	27 DE-1			
Trt Treatment	Other Other	Appl Appl					
No. Name	Rate Rate	Unit Code	Description	5	6	7	8
1 Broadaxe XC	19 oz/a	A	PRE	88.3 a	38.3 a	90.0 bc	93.3 a
1 Flexstar GT 3.5	3.5 pt/a	B	MPO 4-6" wds				
1 Destiny HC	0.3 qt/a	B	MPO 4-6" wds				
1 N-pak ams	1.5 qt/a	B	MPO 4-6" wds				
2 Broadaxe XC	25 oz/a	A	PRE	95.0 a	43.3 a	98.3 ab	93.3 a
2 Flexstar GT 3.5	3.5 pt/a	B	MPO 4-6" wds				
2 Destiny HC	0.3 qt/a	B	MPO 4-6" wds				
2 N-pak ams	1.5 qt/a	B	MPO 4-6" wds				
3 Tricor	5 oz/a	A	PRE	95.3 a	40.0 a	96.7 ab	93.3 a
3 Broadaxe XC	19 oz/a	A	PRE				
3 Flexstar GT 3.5	3.5 pt/a	B	MPO 4-6" wds				
3 Destiny HC	0.3 qt/a	B	MPO 4-6" wds				
3 N-pak ams	1.5 qt/a	B	MPO 4-6" wds				
4 Tricor	3 oz/a	A	PRE	81.7 a	43.3 a	95.0 ab	95.0 a
4 Broadaxe XC	25 oz/a	A	PRE				
4 Flexstar GT 3.5	3.5 pt/a	B	MPO 4-6" wds				
4 Destiny HC	0.3 qt/a	B	MPO 4-6" wds				
4 N-pak ams	1.5 qt/a	B	MPO 4-6" wds				
5 Tricor	5 oz/a	A	PRE	91.0 a	46.7 a	100.0 a	100.0 a
5 Broadaxe XC	25 oz/a	A	PRE				
5 Flexstar GT 3.5	3.5 pt/a	B	MPO 4-6" wds				
5 Destiny HC	0.3 qt/a	B	MPO 4-6" wds				
5 N-pak ams	1.5 qt/a	B	MPO 4-6" wds				
6 Classic	1.25 oz/a	A	PRE	88.3 a	55.0 a	95.0 ab	96.7 a
6 Broadaxe XC	19 oz/a	A	PRE				
6 Flexstar GT 3.5	3.5 pt/a	B	MPO 4-6" wds				
6 Destiny HC	0.3 qt/a	B	MPO 4-6" wds				
6 N-pak ams	1.5 qt/a	B	MPO 4-6" wds				

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	HIBTR
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Hibiscus trion>
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>	Venice mallow
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Crop Variety				
Description				
Part Rated				
Rating Date	6-11-2015	6-11-2015	6-11-2015	6-11-2015
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	34 1	34 1	34 1	34 1
Trt-Eval Interval				
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	35 DP-1
Days After Emergence	27 DE-1	27 DE-1	27 DE-1	27 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	Appl Description	5	6	7	8
7	Classic	1.25 oz/a		A	PRE	96.0 a	46.7 a	100.0 a	96.7 a
7	Broadaxe XC	25 oz/a		A	PRE				
7	Flexstar GT 3.5	3.5 pt/a		B	MPO 4-6" wds				
7	Destiny HC	0.3 qt/a		B	MPO 4-6" wds				
7	N-pak ams	1.5 qt/a		B	MPO 4-6" wds				
8	Boundary	1.75 pt/a		A	PRE	95.0 a	33.3 a	83.3 c	95.0 a
8	Flexstar GT 3.5	3.5 pt/a		B	MPO 4-6" wds				
8	Destiny HC	0.3 qt/a		B	MPO 4-6" wds				
8	N-pak ams	1.5 qt/a		B	MPO 4-6" wds				
9	Valor XLT @ 3 oz					83.3 a	53.3 a	98.3 ab	100.0 a
9	Valor SX	1.76 oz/a		A	PRE				
9	Classic	1.24 oz/a		A	PRE				
9	Flexstar GT 3.5	3.5 pt/a		B	MPO 4-6" wds				
9	Destiny HC	0.3 qt/a		B	MPO 4-6" wds				
9	N-pak ams	1.5 qt/a		B	MPO 4-6" wds				
10	Sonic	4 oz/a		A	PRE	55.0 b	50.0 a	95.0 ab	96.7 a
10	Flexstar GT 3.5	3.5 pt/a		B	MPO 4-6" wds				
10	Destiny HC	0.3 qt/a		B	MPO 4-6" wds				
10	N-pak ams	1.5 qt/a		B	MPO 4-6" wds				
11	Sonic	4.5 oz/a		A	PRE	46.7 b	60.0 a	100.0 a	100.0 a
11	Durango DMA	32 oz/a		B	MPO 4-6" wds				
11	N-pak ams	1.5 qt/a		B	MPO 4-6" wds				
12	Sonic	6 oz/a		A	PRE	43.3 b	36.7 a	100.0 a	100.0 a
12	Durango DMA	32 oz/a		B	MPO 4-6" wds				
12	N-pak ams	1.5 qt/a		B	MPO 4-6" wds				
13	Surveil Premix	2.8 oz/a		A	PRE	46.7 b	53.3 a	100.0 a	100.0 a
13	Durango DMA	32 oz/a		B	MPO 4-6" wds				
13	N-pak ams	1.5 qt/a		B	MPO 4-6" wds				

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	HIBTR
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>	Hibiscus trion>
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>	Venice mallow
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Crop Variety				
Description				
Part Rated				
Rating Date	6-11-2015	6-11-2015	6-11-2015	6-11-2015
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	34 1	34 1	34 1	34 1
Trt-Eval Interval				
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	35 DP-1
Days After Emergence	27 DE-1	27 DE-1	27 DE-1	27 DE-1
Trt Treatment	Other	Other	Appl	Appl
No. Name	Rate	Rate	Unit	Code
				Description
14 Surveil Premix	4.2 oz/a	A	PRE	50.0 b
14 Durango DMA	32 oz/a	B	MPO 4-6" wds	60.0 a
14 N-pak ams	1.5 qt/a	B	MPO 4-6" wds	100.0 a
				8
				100.0 a
LSD P=.05	15.68	23.11	8.65	6.98
Standard Deviation	9.34	13.77	5.15	4.16
CV	12.39	29.21	5.34	4.28
Grand Mean	75.40	47.14	96.55	97.14
Bartlett's X2	17.774	4.573	10.14	3.54
P(Bartlett's X2)	0.123	0.95	0.119	0.831
Skewness	-0.728	-0.4517	-2.4978*	-1.3861*
Kurtosis	-0.9743	-0.8073	6.6876*	0.7143
Replicate F	0.750	0.716	3.317	2.889
Replicate Prob(F)	0.4825	0.4981	0.0521	0.0736
Treatment F	15.885	1.139	2.629	1.365
Treatment Prob(F)	0.0001	0.3733	0.0174	0.2411

Pest Type	W Weed	W Weed	W Weed							
Pest Code	POLPY	SETFA	AMBTR							
Pest Scientific Name	Persicaria pen>	Setaria faberi	Ambrosia trifi>							
Pest Name	Pennsylvania s>	Giant foxtail	Giant ragweed							
Crop Code	GLXMA									
BBCH Scale	BSOY									
Crop Scientific Name	Glycine max									
Crop Name	Soybean									
Crop Variety	SCS 9363									
Description	RR									
Part Rated	PLANT C									
Rating Date	6-11-2015	6-11-2015	7-27-2015							
Rating Type	CONTRO	PHYGEN	CONTRO							
Rating Unit	%	%	%							
Number of Subsamples	1	1	1							
Days After First/Last Applic.	34	34	80							
Trt-Eval Interval	1	1	47							
Plant-Eval Interval	35 DP-1	35 DP-1	81 DP-1							
Days After Emergence	27 DE-1	27 DE-1	73 DE-1							
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Appl Description	9	10	11	12
1	Broadaxe XC	19 oz/a		A	PRE		91.7 a	0.0 b	100.0 a	93.3 a
1	Flexstar GT 3.5	3.5 pt/a		B	MPO 4-6" wds					
1	Destiny HC	0.3 qt/a		B	MPO 4-6" wds					
1	N-pak ams	1.5 qt/a		B	MPO 4-6" wds					
2	Broadaxe XC	25 oz/a		A	PRE		85.0 a	0.0 b	100.0 a	92.7 a
2	Flexstar GT 3.5	3.5 pt/a		B	MPO 4-6" wds					
2	Destiny HC	0.3 qt/a		B	MPO 4-6" wds					
2	N-pak ams	1.5 qt/a		B	MPO 4-6" wds					
3	Tricor	5 oz/a		A	PRE		96.7 a	0.0 b	100.0 a	96.7 a
3	Broadaxe XC	19 oz/a		A	PRE					
3	Flexstar GT 3.5	3.5 pt/a		B	MPO 4-6" wds					
3	Destiny HC	0.3 qt/a		B	MPO 4-6" wds					
3	N-pak ams	1.5 qt/a		B	MPO 4-6" wds					
4	Tricor	3 oz/a		A	PRE		98.3 a	0.0 b	98.3 a	96.7 a
4	Broadaxe XC	25 oz/a		A	PRE					
4	Flexstar GT 3.5	3.5 pt/a		B	MPO 4-6" wds					
4	Destiny HC	0.3 qt/a		B	MPO 4-6" wds					
4	N-pak ams	1.5 qt/a		B	MPO 4-6" wds					
5	Tricor	5 oz/a		A	PRE		100.0 a	0.0 b	100.0 a	95.0 a
5	Broadaxe XC	25 oz/a		A	PRE					
5	Flexstar GT 3.5	3.5 pt/a		B	MPO 4-6" wds					
5	Destiny HC	0.3 qt/a		B	MPO 4-6" wds					
5	N-pak ams	1.5 qt/a		B	MPO 4-6" wds					
6	Classic	1.25 oz/a		A	PRE		95.0 a	0.0 b	100.0 a	100.0 a
6	Broadaxe XC	19 oz/a		A	PRE					
6	Flexstar GT 3.5	3.5 pt/a		B	MPO 4-6" wds					
6	Destiny HC	0.3 qt/a		B	MPO 4-6" wds					
6	N-pak ams	1.5 qt/a		B	MPO 4-6" wds					

Pest Type	W Weed	W Weed	W Weed
Pest Code	POLPY	SETFA	AMBTR
Pest Scientific Name	Persicaria pen->	Setaria faberi	Ambrosia trifi->
Pest Name	Pennsylvania s->	Giant foxtail	Giant ragweed
Crop Code		GLXMA	
BBCH Scale		BSOY	
Crop Scientific Name		Glycine max	
Crop Name		Soybean	
Crop Variety		SCS 9363	
Description		RR	
Part Rated		PLANT C	
Rating Date	6-11-2015	6-11-2015	7-27-2015
Rating Type	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	34 1	34 1	80 47
Trt-Eval Interval			
Plant-Eval Interval	35 DP-1	35 DP-1	81 DP-1
Days After Emergence	27 DE-1	27 DE-1	73 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	Appl Description	9	10	11	12
7	Classic	1.25 oz/a		A	PRE	96.7 a	0.0 b	100.0 a	92.7 a
7	Broadaxe XC	25 oz/a		A	PRE				
7	Flexstar GT 3.5	3.5 pt/a		B	MPO 4-6" wds				
7	Destiny HC	0.3 qt/a		B	MPO 4-6" wds				
7	N-pak ams	1.5 qt/a		B	MPO 4-6" wds				
8	Boundary	1.75 pt/a		A	PRE	93.3 a	0.0 b	100.0 a	96.7 a
8	Flexstar GT 3.5	3.5 pt/a		B	MPO 4-6" wds				
8	Destiny HC	0.3 qt/a		B	MPO 4-6" wds				
8	N-pak ams	1.5 qt/a		B	MPO 4-6" wds				
9	Valor XLT @ 3 oz					100.0 a	0.0 b	100.0 a	96.7 a
9	Valor SX	1.76 oz/a		A	PRE				
9	Classic	1.24 oz/a		A	PRE				
9	Flexstar GT 3.5	3.5 pt/a		B	MPO 4-6" wds				
9	Destiny HC	0.3 qt/a		B	MPO 4-6" wds				
9	N-pak ams	1.5 qt/a		B	MPO 4-6" wds				
10	Sonic	4 oz/a		A	PRE	93.3 a	0.0 b	100.0 a	94.8 a
10	Flexstar GT 3.5	3.5 pt/a		B	MPO 4-6" wds				
10	Destiny HC	0.3 qt/a		B	MPO 4-6" wds				
10	N-pak ams	1.5 qt/a		B	MPO 4-6" wds				
11	Sonic	4.5 oz/a		A	PRE	96.7 a	0.0 b	100.0 a	100.0 a
11	Durango DMA	32 oz/a		B	MPO 4-6" wds				
11	N-pak ams	1.5 qt/a		B	MPO 4-6" wds				
12	Sonic	6 oz/a		A	PRE	96.7 a	0.0 b	100.0 a	100.0 a
12	Durango DMA	32 oz/a		B	MPO 4-6" wds				
12	N-pak ams	1.5 qt/a		B	MPO 4-6" wds				
13	Surveil Premix	2.8 oz/a		A	PRE	93.3 a	0.7 b	100.0 a	96.7 a
13	Durango DMA	32 oz/a		B	MPO 4-6" wds				
13	N-pak ams	1.5 qt/a		B	MPO 4-6" wds				

Pest Type				W Weed		W Weed		W Weed	
Pest Code				POLPY		SETFA		AMBTR	
Pest Scientific Name				Persicaria pen>		Setaria faberi		Ambrosia trifi>	
Pest Name				Pennsylvania s>		Giant foxtail		Giant ragweed	
Crop Code					GLXMA				
BBCH Scale					BSOY				
Crop Scientific Name					Glycine max				
Crop Name					Soybean				
Crop Variety					SCS 9363				
Description					RR				
Part Rated					PLANT C				
Rating Date				6-11-2015	6-11-2015	7-27-2015		7-27-2015	
Rating Type				CONTRO	PHYGEN	CONTRO		CONTRO	
Rating Unit				%	%	%		%	
Number of Subsamples				1	1	1		1	
Days After First/Last Applic.				34 1	34 1	80 47		80 47	
Trt-Eval Interval									
Plant-Eval Interval				35 DP-1	35 DP-1	81 DP-1		81 DP-1	
Days After Emergence				27 DE-1	27 DE-1	73 DE-1		73 DE-1	
Trt Treatment	Other	Other	Appl	Appl					
No. Name	Rate	Rate	Unit	Code	Description	9	10	11	12
14 Surveil Premix	4.2 oz/a		A	PRE		100.0 a	2.3 a	100.0 a	100.0 a
14 Durango DMA	32 oz/a		B	MPO 4-6" wds					
14 N-pak ams	1.5 qt/a		B	MPO 4-6" wds					
LSD P=.05						13.31	1.21	1.32	6.79
Standard Deviation						7.93	0.72	0.79	4.04
CV						8.3	335.97	0.79	4.18
Grand Mean						95.48	0.21	99.88	96.55
Bartlett's X2						12.516	1.088	0.0	4.065
P(Bartlett's X2)						0.252	0.297	.	0.851
Skewness						-2.588*	4.682*	-6.4031*	-0.8031*
Kurtosis						8.0246*	23.5606*	41.0*	-0.7697
Replicate F						4.100	1.792	0.962	0.247
Replicate Prob(F)						0.0283	0.1867	0.3960	0.7832
Treatment F						0.784	2.336	0.962	1.327
Treatment Prob(F)						0.6699	0.0318	0.5114	0.2623

Pest Type	W Weed	W Weed	W Weed
Pest Code	CHEAL	HIBTR	POLPY
Pest Scientific Name	Chenopodium al>	Hibiscus trion>	Persicaria pen>
Pest Name	Common lambsqu>	Venice mallow	Pennsylvania s>
Crop Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Crop Variety			
Description			
Part Rated			
Rating Date	7-27-2015	7-27-2015	7-27-2015
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	80 47	80 47	80 47
Trt-Eval Interval			
Plant-Eval Interval	81 DP-1	81 DP-1	81 DP-1
Days After Emergence	73 DE-1	73 DE-1	73 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Unit	Appl Code	Appl Description	13	14	15
1	Broadaxe XC	19 oz/a			A	PRE	100.0 a	100.0 a	100.0 a
1	Flexstar GT 3.5	3.5 pt/a			B	MPO 4-6" wds			
1	Destiny HC	0.3 qt/a			B	MPO 4-6" wds			
1	N-pak ams	1.5 qt/a			B	MPO 4-6" wds			
2	Broadaxe XC	25 oz/a			A	PRE	100.0 a	100.0 a	100.0 a
2	Flexstar GT 3.5	3.5 pt/a			B	MPO 4-6" wds			
2	Destiny HC	0.3 qt/a			B	MPO 4-6" wds			
2	N-pak ams	1.5 qt/a			B	MPO 4-6" wds			
3	Tricor	5 oz/a			A	PRE	100.0 a	100.0 a	100.0 a
3	Broadaxe XC	19 oz/a			A	PRE			
3	Flexstar GT 3.5	3.5 pt/a			B	MPO 4-6" wds			
3	Destiny HC	0.3 qt/a			B	MPO 4-6" wds			
3	N-pak ams	1.5 qt/a			B	MPO 4-6" wds			
4	Tricor	3 oz/a			A	PRE	100.0 a	100.0 a	100.0 a
4	Broadaxe XC	25 oz/a			A	PRE			
4	Flexstar GT 3.5	3.5 pt/a			B	MPO 4-6" wds			
4	Destiny HC	0.3 qt/a			B	MPO 4-6" wds			
4	N-pak ams	1.5 qt/a			B	MPO 4-6" wds			
5	Tricor	5 oz/a			A	PRE	100.0 a	100.0 a	100.0 a
5	Broadaxe XC	25 oz/a			A	PRE			
5	Flexstar GT 3.5	3.5 pt/a			B	MPO 4-6" wds			
5	Destiny HC	0.3 qt/a			B	MPO 4-6" wds			
5	N-pak ams	1.5 qt/a			B	MPO 4-6" wds			
6	Classic	1.25 oz/a			A	PRE	100.0 a	100.0 a	100.0 a
6	Broadaxe XC	19 oz/a			A	PRE			
6	Flexstar GT 3.5	3.5 pt/a			B	MPO 4-6" wds			
6	Destiny HC	0.3 qt/a			B	MPO 4-6" wds			
6	N-pak ams	1.5 qt/a			B	MPO 4-6" wds			

Pest Type	W Weed	W Weed	W Weed
Pest Code	CHEAL	HIBTR	POLPY
Pest Scientific Name	Chenopodium al>	Hibiscus trion>	Persicaria pen>
Pest Name	Common lambsqu>	Venice mallow	Pennsylvania s>
Crop Code			
BBCH Scale			
Crop Scientific Name			
Crop Name			
Crop Variety			
Description			
Part Rated			
Rating Date	7-27-2015	7-27-2015	7-27-2015
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	80 47	80 47	80 47
Trt-Eval Interval			
Plant-Eval Interval	81 DP-1	81 DP-1	81 DP-1
Days After Emergence	73 DE-1	73 DE-1	73 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Description	13	14	15
7	Classic	1.25 oz/a		A	PRE		100.0 a	100.0 a	100.0 a
7	Broadaxe XC	25 oz/a		A	PRE				
7	Flexstar GT 3.5	3.5 pt/a		B	MPO 4-6" wds				
7	Destiny HC	0.3 qt/a		B	MPO 4-6" wds				
7	N-pak ams	1.5 qt/a		B	MPO 4-6" wds				
8	Boundary	1.75 pt/a		A	PRE		100.0 a	100.0 a	100.0 a
8	Flexstar GT 3.5	3.5 pt/a		B	MPO 4-6" wds				
8	Destiny HC	0.3 qt/a		B	MPO 4-6" wds				
8	N-pak ams	1.5 qt/a		B	MPO 4-6" wds				
9	Valor XLT @ 3 oz						100.0 a	100.0 a	100.0 a
9	Valor SX	1.76 oz/a		A	PRE				
9	Classic	1.24 oz/a		A	PRE				
9	Flexstar GT 3.5	3.5 pt/a		B	MPO 4-6" wds				
9	Destiny HC	0.3 qt/a		B	MPO 4-6" wds				
9	N-pak ams	1.5 qt/a		B	MPO 4-6" wds				
10	Sonic	4 oz/a		A	PRE		100.0 a	100.0 a	100.0 a
10	Flexstar GT 3.5	3.5 pt/a		B	MPO 4-6" wds				
10	Destiny HC	0.3 qt/a		B	MPO 4-6" wds				
10	N-pak ams	1.5 qt/a		B	MPO 4-6" wds				
11	Sonic	4.5 oz/a		A	PRE		100.0 a	100.0 a	100.0 a
11	Durango DMA	32 oz/a		B	MPO 4-6" wds				
11	N-pak ams	1.5 qt/a		B	MPO 4-6" wds				
12	Sonic	6 oz/a		A	PRE		100.0 a	100.0 a	100.0 a
12	Durango DMA	32 oz/a		B	MPO 4-6" wds				
12	N-pak ams	1.5 qt/a		B	MPO 4-6" wds				
13	Surveil Premix	2.8 oz/a		A	PRE		100.0 a	100.0 a	100.0 a
13	Durango DMA	32 oz/a		B	MPO 4-6" wds				
13	N-pak ams	1.5 qt/a		B	MPO 4-6" wds				

Pest Type				W Weed	W Weed	W Weed
Pest Code				CHEAL	HIBTR	POLPY
Pest Scientific Name				Chenopodium al>	Hibiscus trion>	Persicaria pen>
Pest Name				Common lambsqu>	Venice mallow	Pennsylvania s>
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Crop Variety						
Description						
Part Rated						
Rating Date				7-27-2015	7-27-2015	7-27-2015
Rating Type				CONTRO	CONTRO	CONTRO
Rating Unit				%	%	%
Number of Subsamples				1	1	1
Days After First/Last Applic.				80 47	80 47	80 47
Trt-Eval Interval						
Plant-Eval Interval				81 DP-1	81 DP-1	81 DP-1
Days After Emergence				73 DE-1	73 DE-1	73 DE-1
Trt Treatment	Other	Other	Appl	Appl		
No. Name	Rate	Rate	Unit	Code	Description	
14 Surveil Premix	4.2 oz/a		A	PRE		13
14 Durango DMA	32 oz/a		B	MPO 4-6" wds		14
14 N-pak ams	1.5 qt/a		B	MPO 4-6" wds		15
LSD P=.05						.
Standard Deviation						0.00
CV						0.0
Grand Mean						100.00
Bartlett's X2						0.0
P(Bartlett's X2)						.
Skewness						.
Kurtosis						.
Replicate F						0.000
Replicate Prob(F)						1.0000
Treatment F						0.000
Treatment Prob(F)						1.0000

Compare broadaxe XC to Syngenta and competitive herbicide programs, DAS Showcase treatments

Trial ID: 15 PRPOS1	Location: F-7 EAST END	Trial Year: 2015
Protocol ID: 15 PRPOS1	Investigator: Dr. Mark M. Loux	
Project ID: ZSOY80AD-2015US/DAS Showc	Study Director: Bryan Reeb	
	Sponsor Contact: Dain Bruns, Syn/Leah Granke, Dow	

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
 HIBTR, Hibiscus trionum, = US
 POLPY, Persicaria pensylvanica, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Part Rated

PLANT = plant
 C = Crop is Part Rated

Rating Type

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

Rating Unit

% = percent

Plant-Eval Interval

28 DP-1 = 1 GLXMA 5-7-2015
 35 DP-1 = 1 GLXMA 5-7-2015
 81 DP-1 = 1 GLXMA 5-7-2015