

Purdue University

Effect of Superb HC and Destiny HC on performance of Flexstar and Cobra tank mixed with Glyphosate

Trial ID: 08S-ROM-CTS-51 Protocol ID: 08S-ROM-CTS-51
 Location: Romney Study Director: Melissa Kruger
 Project ID: Investigator: Dr. Bill Johnson
 Sponsor Contact:

General Trial Information

Study Director: Melissa Kruger **Title:** Lab Technician VII
Investigator: Dr. William G. Johnson **Title:** Associate Professor

Discipline: H herbicide
Trial Status: F one-year/final
Initiation Date: 4/23/2008 **Planned Completion Date:** 7/10/2008

Trial Location

City: Romney
State/Prov.: IN
Postal Code: 47981
Country: USA

Objectives:

The objective of the trial is to determine the effect of Superb HC and Destiny HC on the performance of Flexstar and Cobra tank mixed with glyphosate.

Personnel

Study Director: Melissa Kruger **Title:** Lab Technician VII
Affiliation: Purdue University
Address: 915 W. State St.
Location: West Lafayette, IN USA
Postal Code: 47907 **E-mail:** mmkruger@purdue.edu
Phone No.: 765-494-4621
Investigator: Dr. William G. Johnson **Title:** Associate Professor
Affiliation: Purdue University
Address: 915 W. State St.
Location: West Lafayette, IN USA
Postal Code: 47907 **E-mail:** wj@purdue.edu
Phone No.: 765-494-4656

Cooperator/Landowner

Cooperator: Roger Verhey **Role:** Landowner
Address 1: 9012 S. Co. Rd. 200 W
Phone No.: 765-538-2481
City: Romney
State/Prov: IN
Postal Code: 47981
Country: USA United States

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3306 **Description:** JD 7200; RR
BBCH Scale: BSOY **Planting Date:** 4/23/2008
Planting Method: DIRDRI direct drilled **Rate, Unit:** 130000 S/A
Depth, Unit: 2 IN
Row Spacing, Unit: 30 IN
Soil Temperature, Unit: 65 F
Soil Moisture: MOIST **Emergence Date:** 5/9/2008

Pest Description

Pest 1 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed
Pest 2 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail
Pest 3 Type: W **Code:** CHEAL Chenopodium album

Common Name: Common lambsquarters

Pest 4 Type: W **Code:** AMATA *Amaranthus tamariscinus*

Common Name: Common waterhemp

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field

Plot Length, Unit: 30 FT

Plot Area, Unit: 300 FT2 **Tillage Type:** NOTILL no-till

Replications: 4 **Study Design:** RACOBL Randomized Complete Block (RCB)

Untreated Arrangement: INCLUDED single control randomized in each block

Soil Description

Description Name: Romney

% OM: 2.8 **Texture:** SICL silty clay loam

pH: 6.7 **Soil Name:** Drummer Toronto

CEC: 10.6 **Fert. Level:** G good

Analyzed By:

The Farm Clinic, Inc. 2006

Additional Measured Elements

Element	Quantity	Unit
P	76	LB/A
K	343	LB/A

Moisture and Weather Conditions

Closest Weather Station: On TPAC research farm **Distance, Unit:** 2 MI

Application Description

	A	B
Application Date:	6/9/2008	6/23/2008
Time of Day:	10:30 AM	8:05 AM
Application Method:	SPRAY	SPRAY
Application Timing:	POSPOS	LAPOWE
Application Placement:	BROFOL	BROFOL
Applied By:	CB GK VM	AR PM
Air Temperature, Unit:	78 F	69 F
% Relative Humidity:	95	67
Wind Velocity, Unit:	6 MPH	3.5 MPH
Wind Direction:	SW	NW
Dew Presence (Y/N):	N no	Y yes
Soil Temperature, Unit:	72 F	51 F
Soil Moisture:	WET	DRY
% Cloud Cover:	40	0

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:	V2	R1
Height, Unit:	3 IN	
Height Minimum, Maximum:	3 4	

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	3 NODE	7 NODE
Stage Minimum, Percent:	COTY	6 NODE
Stage Maximum, Percent:	10 NOD	8 NODE
Height, Unit:	20 IN	36 IN
Height Minimum, Maximum:	0 42	12 48
Density, Unit:	80 YD2	10 YD2
Pest 2 Code, Type, Scale:	SETFA W	SETFA W

Stage Majority, Percent:		6 LF
Stage Minimum, Percent:		5 LF
Stage Maximum, Percent:		8 LF
Height, Unit:	6 IN	15 IN
Height Minimum, Maximum:	0 8	6 24
Density, Unit:	85 YD2	30 FT2
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:	8 NODE	5 NODE
Stage Minimum, Percent:	1 NODE	4 NODE
Stage Maximum, Percent:	13 NOD	8 NODE
Height, Unit:	3 IN	24 IN
Height Minimum, Maximum:	1 5	8 36
Density, Unit:	8 YD2	7 YD2
Pest 4 Code, Type, Scale:	AMATA W	AMATA W
Stage Majority, Percent:	3 NODE	4 NODE
Stage Minimum, Percent:	1 NODE	2 NODE
Stage Maximum, Percent:	6 NODE	6 NODE
Height, Unit:	3 IN	15 IN
Height Minimum, Maximum:	1 5	3 24
Density, Unit:	9 YD2	50 YD2

Application Equipment

	A	B
Appl. Equipment:	CO2 Backpack	CO2 Backpack
Operating Pressure, Unit:	17 PSI	17 PSI
Nozzle Type:	Flat Fan	Flat Fan
Nozzle Size:	XR11002	XR11002
Nozzle Spacing, Unit:	15 IN	15 IN
Nozzles/Row:	8	8
Boom Length, Unit:	10 FT	10 FT
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	H2O	H2O
Water Hardness (ppm CaCO3):	150	150
Spray Volume, Unit:	15 GAL/AC	15 GAL/AC
Mix Size, Unit:	1.8 Liters	1.8 Liters
Propellant:	CO2	CO2
Tank Mix (Y/N):	N no	N no

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Trial ID: 08S-ROM-CTS-51 Protocol ID: 08S-ROM-CTS-51
 Location: Romney Study Director: Melissa Kruger
 Project ID: Investigator: Dr. Bill Johnson
 Sponsor Contact:

Pest Type		W Weed	W Weed	W Weed	W Weed		W Weed				
Pest Code		AMBTR	SETFA	CHEAL	AMATA		AMBTR				
Pest Scientific Name		Ambrosia trifi>	Setaria faberi	Chenopodium al>	Amaranthus tam>		Ambrosia trifi>				
Pest Name		Giant ragweed	Giant foxtail	Common lambsqu>	Common waterhe>		Giant ragweed				
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA				
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY				
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max				
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean				
Crop Variety	AG3306	AG3306	AG3306	AG3306	AG3306	AG3306	AG3306				
Description	JD 7200; RR	JD 7200; RR	JD 7200; RR	JD 7200; RR	JD 7200; RR	JD 7200; RR	JD 7200; RR				
Part Rated	PLOT C	PLOT P	PLOT P	PLOT P	PLOT P	PLOT C	PLOT P				
Rating Date	6/23/2008	6/23/2008	6/23/2008	6/23/2008	6/23/2008	7/9/2008	7/9/2008				
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO				
Rating Unit	%	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1	1				
Crop Stage Majority	R1	R1	R1	R1	R1	R1-R2	R1-R2				
Crop Stage Minimum/Maximum						14-20"	14-20"				
Pest Stage Majority		12-48"	6-24"	8-36"	3-24"		24-72"				
Pest Density, Unit		10 YD2	30 FT2	8 YD2	50 YD2		10 YD2				
Assessed By	AR GK	AR GK	AR GK	AR GK	AR GK	VMD	VMD				
Rating Timing	14 DAT B	14 DAT B	14 DAT B	14 DAT B	14 DAT B	28 DAT B	28 DAT B				
Days After First/Last Applic.	14 0	14 0	14 0	14 0	14 0	30 16	30 16				
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	30 DA-A	30 DA-A				
Plant-Eval Interval	61 DP-1	61 DP-1	61 DP-1	61 DP-1	61 DP-1	77 DP-1	77 DP-1				
Days After Emergence	45 DE-	45 DE-	45 DE-	45 DE-	45 DE-	61 DE-	61 DE-				
Trt No.	Treatment	Rate	Appl								
	Name	Rate	Unit	Code	1	2	3	4	5	6	7
1	Untreated				0.0 c	0.0 b	0.0 b	0.0 b	0.0 c	0.0 b	0.0 d
2	Roundup PowerMAX Alliance	0.77 5	lb ae/a qt/100 gal	A A	0.5 bc	81.3 a	98.0 a	97.5 a	96.8 a	5.3 b	92.8 abc
3	Roundup PowerMAX Flexstar Alliance	0.77 0.294 5	lb ae/a lb ai/a qt/100 gal	A A A	2.8 abc	90.8 a	100.0 a	100.0 a	96.3 a	1.8 b	85.8 bc
4	Roundup PowerMAX Flexstar Superb HC Alliance	0.77 0.294 2 5	lb ae/a lb ai/a qt/100 gal qt/100 gal	A A A A	4.8 ab	92.5 a	99.5 a	95.0 a	95.0 a	4.0 b	89.5 abc
5	Roundup PowerMAX Flexstar Destiny HC (MSO) Alliance	0.77 0.294 2 5	lb ae/a lb ai/a qt/100 gal qt/100 gal	A A A A	2.8 abc	90.0 a	98.8 a	100.0 a	95.8 a	9.0 b	90.5 abc
6	Roundup PowerMAX Flexstar Preference NIS Alliance	0.77 0.294 1 5	lb ae/a lb ai/a qt/100 gal qt/100 gal	A A A A	2.5 abc	80.0 a	99.5 a	100.0 a	82.0 b	4.0 b	82.5 c
7	Roundup PowerMAX Flexstar Destiny HC (MSO) Alliance Roundup PowerMAX Cobra Preference NIS Alliance	0.77 0.294 2 5 0.77 0.187 1 5	lb ae/a lb ai/a qt/100 gal qt/100 gal lb ae/a lb ai/a qt/100 gal qt/100 gal	A A A A B B B B	4.3 abc	86.3 a	99.3 a	100.0 a	97.5 a	21.0 a	96.0 ab

Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL	AMATA
Pest Scientific Name	Setaria faberi	Chenopodium al>	Amaranthus tam>
Pest Name	Giant foxtail	Common lambsqu>	Common waterhe>
Crop Code	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean
Crop Variety	AG3306	AG3306	AG3306
Description	JD 7200; RR	JD 7200; RR	JD 7200; RR
Part Rated	PLOT P	PLOT P	PLOT P
Rating Date	7/9/2008	7/9/2008	7/9/2008
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Crop Stage Majority	R1-R2	R1-R2	R1-R2
Crop Stage Minimum/Maximum	14-20"	14-20"	14-20"
Pest Stage Majority	8-42"	8-42"	3-36"
Pest Density, Unit	80 YD2	8 YD2	88 YD2
Assessed By	VMD	VMD	VMD
Rating Timing	28 DAT B	28 DAT B	28 DAT B
Days After First/Last Applic.	30 16	30 16	30 16
Trt-Eval Interval	30 DA-A	30 DA-A	30 DA-A
Plant-Eval Interval	77 DP-1	77 DP-1	77 DP-1
Days After Emergence	61 DE-	61 DE-	61 DE-
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
1 Untreated			8 9 10
2 Roundup PowerMAX	0.77 lb ae/a A		0.0 b 0.0 b 0.0 c
Alliance	5 qt/100 gal A		94.0 a 100.0 a 85.3 b
3 Roundup PowerMAX	0.77 lb ae/a A		99.0 a 100.0 a 95.0 a
Flexstar	0.294 lb ai/a A		
Alliance	5 qt/100 gal A		
4 Roundup PowerMAX	0.77 lb ae/a A		93.0 a 100.0 a 89.5 ab
Flexstar	0.294 lb ai/a A		
Superb HC	2 qt/100 gal A		
Alliance	5 qt/100 gal A		
5 Roundup PowerMAX	0.77 lb ae/a A		98.0 a 100.0 a 95.0 a
Flexstar	0.294 lb ai/a A		
Destiny HC (MSO)	2 qt/100 gal A		
Alliance	5 qt/100 gal A		
6 Roundup PowerMAX	0.77 lb ae/a A		92.8 a 100.0 a 83.8 b
Flexstar	0.294 lb ai/a A		
Preference NIS	1 qt/100 gal A		
Alliance	5 qt/100 gal A		
7 Roundup PowerMAX	0.77 lb ae/a A		99.8 a 100.0 a 100.0 a
Flexstar	0.294 lb ai/a A		
Destiny HC (MSO)	2 qt/100 gal A		
Alliance	5 qt/100 gal A		
Roundup PowerMAX	0.77 lb ae/a B		
Cobra	0.187 lb ai/a B		
Preference NIS	1 qt/100 gal B		
Alliance	5 qt/100 gal B		

Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code		AMBTR	SETFA	CHEAL	AMATA		AMBTR				
Pest Scientific Name		Ambrosia trifi>	Setaria faberi	Chenopodium al>	Amaranthus tam>		Ambrosia trifi>				
Pest Name		Giant ragweed	Giant foxtail	Common lambsqu>	Common waterhe>		Giant ragweed				
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA			
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY			
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max			
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean			
Crop Variety	AG3306	AG3306	AG3306	AG3306	AG3306	AG3306	AG3306	AG3306			
Description	JD 7200; RR	JD 7200; RR	JD 7200; RR	JD 7200; RR	JD 7200; RR	JD 7200; RR	JD 7200; RR	JD 7200; RR			
Part Rated	PLOT C	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P	PLOT C	PLOT P			
Rating Date	6/23/2008	6/23/2008	6/23/2008	6/23/2008	6/23/2008	6/23/2008	7/9/2008	7/9/2008			
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO			
Rating Unit	%	%	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1	1	1			
Crop Stage Majority	R1	R1	R1	R1	R1	R1	R1-R2	R1-R2			
Crop Stage Minimum/Maximum							14-20"	14-20"			
Pest Stage Majority		12-48"	6-24"	8-36"	3-24"			24-72"			
Pest Density, Unit		10 YD2	30 FT2	8 YD2	50 YD2			10 YD2			
Assessed By	AR GK	AR GK	AR GK	AR GK	AR GK		VMD	VMD			
Rating Timing	14 DAT B	14 DAT B	14 DAT B	14 DAT B	14 DAT B	14 DAT B	28 DAT B	28 DAT B			
Days After First/Last Applic.	14 0	14 0	14 0	14 0	14 0	14 0	30 16	30 16			
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	30 DA-A	30 DA-A			
Plant-Eval Interval	61 DP-1	61 DP-1	61 DP-1	61 DP-1	61 DP-1	61 DP-1	77 DP-1	77 DP-1			
Days After Emergence	45 DE-	45 DE-	45 DE-	45 DE-	45 DE-	45 DE-	61 DE-	61 DE-			
Trt No.	Treatment	Rate	Unit	Appl Code	1	2	3	4	5	6	7
8	Roundup PowerMAX	0.77	lb ae/a	A	4.8 ab	90.5 a	100.0 a	100.0 a	97.3 a	26.3 a	97.8 a
	Flexstar	0.294	lb ai/a	A							
	Destiny HC (MSO)	2	qt/100 gal	A							
	Alliance	5	qt/100 gal	A							
	Roundup PowerMAX	0.77	lb ae/a	B							
	Cobra	0.187	lb ai/a	B							
	Superb HC	2	qt/100 gal	B							
	Alliance	5	qt/100 gal	B							
9	Roundup PowerMAX	0.77	lb ae/a	A	5.3 a	92.8 a	100.0 a	100.0 a	97.5 a	19.5 a	99.0 a
	Flexstar	0.294	lb ai/a	A							
	Destiny HC (MSO)	2	qt/100 gal	A							
	Alliance	5	qt/100 gal	A							
	Roundup PowerMAX	0.77	lb ae/a	B							
	Cobra	0.187	lb ai/a	B							
	Destiny HC (MSO)	2	qt/100 gal	B							
	Alliance	5	qt/100 gal	B							
10	Roundup PowerMAX	0.77	lb ae/a	A	4.3 abc	94.0 a	99.5 a	100.0 a	96.3 a	23.3 a	99.0 a
	Flexstar	0.294	lb ai/a	A							
	Destiny HC (MSO)	2	qt/100 gal	A							
	Alliance	5	qt/100 gal	A							
	Roundup PowerMAX	0.77	lb ae/a	B							
	Cobra	0.187	lb ai/a	B							
	Rivet	2	qt/100 gal	B							
	Alliance	5	qt/100 gal	B							
11	Roundup PowerMAX	0.77	lb ae/a	A	4.8 ab	86.8 a	99.8 a	100.0 a	92.0 a	18.8 a	98.5 a
	Flexstar	0.294	lb ai/a	A							
	Destiny HC (MSO)	2	qt/100 gal	A							
	Alliance	5	qt/100 gal	A							
	Roundup PowerMAX	0.77	lb ae/a	B							
	Cobra	0.187	lb ai/a	B							
	Alliance	5	qt/100 gal	B							

Pest Type		W Weed	W Weed	W Weed			
Pest Code		SETFA	CHEAL	AMATA			
Pest Scientific Name		Setaria faberi	Chenopodium al>	Amaranthus tam>			
Pest Name		Giant foxtail	Common lambsqu>	Common waterhe>			
Crop Code		GLXMA	GLXMA	GLXMA			
BBCH Scale		BSOY	BSOY	BSOY			
Crop Scientific Name		Glycine max	Glycine max	Glycine max			
Crop Name		Soybean	Soybean	Soybean			
Crop Variety		AG3306	AG3306	AG3306			
Description		JD 7200; RR	JD 7200; RR	JD 7200; RR			
Part Rated		PLOT P	PLOT P	PLOT P			
Rating Date		7/9/2008	7/9/2008	7/9/2008			
Rating Type		CONTRO	CONTRO	CONTRO			
Rating Unit		%	%	%			
Number of Subsamples		1	1	1			
Crop Stage Majority		R1-R2	R1-R2	R1-R2			
Crop Stage Minimum/Maximum		14-20"	14-20"	14-20"			
Pest Stage Majority		8-42"	8-42"	3-36"			
Pest Density, Unit		80 YD2	8 YD2	88 YD2			
Assessed By		VMD	VMD	VMD			
Rating Timing		28 DAT B	28 DAT B	28 DAT B			
Days After First/Last Applic.		30 16	30 16	30 16			
Trt-Eval Interval		30 DA-A	30 DA-A	30 DA-A			
Plant-Eval Interval		77 DP-1	77 DP-1	77 DP-1			
Days After Emergence		61 DE-	61 DE-	61 DE-			
Trt No.	Treatment Name	Rate	Unit	Appl Code	8	9	10
8	Roundup PowerMAX	0.77	lb ae/a	A	100.0 a	100.0 a	100.0 a
	Flexstar	0.294	lb ai/a	A			
	Destiny HC (MSO)	2	qt/100 gal	A			
	Alliance	5	qt/100 gal	A			
	Roundup PowerMAX	0.77	lb ae/a	B			
	Cobra	0.187	lb ai/a	B			
	Superb HC	2	qt/100 gal	B			
	Alliance	5	qt/100 gal	B			
9	Roundup PowerMAX	0.77	lb ae/a	A	99.5 a	100.0 a	99.8 a
	Flexstar	0.294	lb ai/a	A			
	Destiny HC (MSO)	2	qt/100 gal	A			
	Alliance	5	qt/100 gal	A			
	Roundup PowerMAX	0.77	lb ae/a	B			
	Cobra	0.187	lb ai/a	B			
	Destiny HC (MSO)	2	qt/100 gal	B			
	Alliance	5	qt/100 gal	B			
10	Roundup PowerMAX	0.77	lb ae/a	A	99.3 a	100.0 a	100.0 a
	Flexstar	0.294	lb ai/a	A			
	Destiny HC (MSO)	2	qt/100 gal	A			
	Alliance	5	qt/100 gal	A			
	Roundup PowerMAX	0.77	lb ae/a	B			
	Cobra	0.187	lb ai/a	B			
	Rivet	2	qt/100 gal	B			
	Alliance	5	qt/100 gal	B			
11	Roundup PowerMAX	0.77	lb ae/a	A	98.3 a	100.0 a	100.0 a
	Flexstar	0.294	lb ai/a	A			
	Destiny HC (MSO)	2	qt/100 gal	A			
	Alliance	5	qt/100 gal	A			
	Roundup PowerMAX	0.77	lb ae/a	B			
	Cobra	0.187	lb ai/a	B			
	Alliance	5	qt/100 gal	B			

Pest Type		W Weed	W Weed	W Weed	W Weed		W Weed	W Weed
Pest Code		AMBTR	SETFA	CHEAL	AMATA		AMBTR	SETFA
Pest Scientific Name		Ambrosia trifi>	Setaria faberi	Chenopodium al>	Amaranthus tam>		Ambrosia trifi>	Setaria faberi
Pest Name		Giant ragweed	Giant foxtail	Common lambsqu>	Common waterhe>		Giant ragweed	Giant foxtail
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean
Crop Variety	AG3306	AG3306	AG3306	AG3306	AG3306	AG3306	AG3306	AG3306
Description	JD 7200; RR	JD 7200; RR	JD 7200; RR	JD 7200; RR	JD 7200; RR	JD 7200; RR	JD 7200; RR	JD 7200; RR
Part Rated	PLOT C	PLOT P	PLOT P	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P
Rating Date	6/23/2008	6/23/2008	6/23/2008	6/23/2008	6/23/2008	7/9/2008	7/9/2008	7/9/2008
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1	1	1
Crop Stage Majority	R1	R1	R1	R1	R1	R1-R2	R1-R2	R1-R2
Crop Stage Minimum/Maximum						14-20"	14-20"	14-20"
Pest Stage Majority		12-48"	6-24"	8-36"	3-24"		24-72"	8-42"
Pest Density, Unit		10 YD2	30 FT2	8 YD2	50 YD2		10 YD2	80 YD2
Assessed By	AR GK	AR GK	AR GK	AR GK	AR GK	VMD	VMD	VMD
Rating Timing	14 DAT B	14 DAT B	14 DAT B	14 DAT B	14 DAT B	28 DAT B	28 DAT B	28 DAT B
Days After First/Last Applic.	14 0	14 0	14 0	14 0	14 0	30 16	30 16	30 16
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	30 DA-A	30 DA-A	30 DA-A
Plant-Eval Interval	61 DP-1	61 DP-1	61 DP-1	61 DP-1	61 DP-1	77 DP-1	77 DP-1	77 DP-1
Days After Emergence	45 DE-	45 DE-	45 DE-	45 DE-	45 DE-	61 DE-	61 DE-	61 DE-
Trt Treatment Rate Appl								
No. Name Rate Unit Code	1	2	3	4	5	6	7	8
12 Untreated	0.0 c	0.0 b	0.0 b	0.0 b	0.0 c	0.0 b	0.0 d	0.0 b
LSD (P=.05)	2.80	8.70	1.91	4.49	8.80	8.22	7.71	6.19
Standard Deviation	1.94	6.03	1.33	3.11	6.09	5.69	5.34	4.28
CV	63.67	8.18	1.6	3.76	7.73	51.44	6.88	5.28
Bartlett's X2	14.812	10.0	19.473	1.321	27.791	12.293	33.517	46.877
P(Bartlett's X2)	0.096	0.351	0.003*	0.25	0.001*	0.197	0.001*	0.001*
Replicate F	0.378	1.966	0.612	1.941	2.131	3.667	1.179	0.876
Replicate Prob(F)	0.7696	0.1382	0.6119	0.1421	0.1151	0.0220	0.3326	0.4634
Treatment F	4.071	132.621	3408.262	619.039	148.212	12.101	188.267	314.413
Treatment Prob(F)	0.0008	0.0001	0.0001	0.0001	0.0001	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
Pest Code	CHEAL	AMATA
Pest Scientific Name	Chenopodium al>	Amaranthus tam>
Pest Name	Common lambsqu>	Common waterhe>
Crop Code	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max
Crop Name	Soybean	Soybean
Crop Variety	AG3306	AG3306
Description	JD 7200; RR	JD 7200; RR
Part Rated	PLOT P	PLOT P
Rating Date	7/9/2008	7/9/2008
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Crop Stage Majority	R1-R2	R1-R2
Crop Stage Minimum/Maximum	14-20"	14-20"
Pest Stage Majority	8-42"	3-36"
Pest Density, Unit	8 YD2	88 YD2
Assessed By	VMD	VMD
Rating Timing	28 DAT B	28 DAT B
Days After First/Last Applic.	30 16	30 16
Trt-Eval Interval	30 DA-A	30 DA-A
Plant-Eval Interval	77 DP-1	77 DP-1
Days After Emergence	61 DE-	61 DE-
Trt Treatment		
No. Name	9	10
Rate Unit Code		
12 Untreated	0.0 b	0.0 c
LSD (P=.05)	0.00	7.29
Standard Deviation	0.00	5.05
CV	0.0	6.39
Bartlett's X2	0.0	17.863
P(Bartlett's X2)	.	0.003*
Replicate F	0.000	1.978
Replicate Prob(F)	1.0000	0.1365
Treatment F	0.000	219.386
Treatment Prob(F)	1.0000	0.0001

Purdue University

Effect of Superb HC and Destiny HC on performance of Flexstar and Cobra tank mixed with Glyphosate

Trial ID: 08S-ROM-CTS-51 Protocol ID: 08S-ROM-CTS-51
Location: Romney Study Director: Melissa Kruger
Project ID: Investigator: Dr. Bill Johnson
Sponsor Contact:

Pest Type

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

Pest Code

AMBTR, Ambrosia trifida, = US

SETFA, Setaria faberi, = US

CHEAL, Chenopodium album, = US

AMATA, Amaranthus tamariscinus, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

C = Crop is Part Rated

P = Pest is Part Rated

Rating Type

PHYGEN = phytotoxicity - general / injury

CONTRO = control / burndown or knockdown

Rating Unit

% = percent

YD2 = per square yard

FT2 = per square foot

Plant-Eval Interval

61 DP-1 = 1 4/23/2008

77 DP-1 = 1 4/23/2008