

Purdue University

Spring Burndown programs from Valent, Cheminova and FMC

Trial ID: 08S-THP-NTS-06 Protocol ID: 08S-THP-NTS-06
 Location: Throckmorton 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: I one-year/interim
Initiation Date: 5/29/2008 **Planned Completion Date:** 10/22/2008

Trial Location

City: Lafayette
State/Prov.: IN
Postal Code: 47909
Country: USA United States

Objectives:

The objective of the trial is to evaluate the spring burndown programs of Valent, Cheminova, and FMC.

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:** wjg@purdue.edu
Phone No.: 765-494-4656

Cooperator/Landowner

Cooperator: Throckmorton Purdue Ag Center **Role:** Purdue Ag Center
Organization: Purdue University
Address 1: 8343 US 231 S
City: Lafayette
State/Prov: IN
Postal Code: 47909 **E-mail:** jayyoung@purdue.edu
Country: US
Phone No.: 765-538-3422
Fax No.: 765-538-3423

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG3306
BBCH Scale: BSOY **Planting Date:** 5/25/2008
Planting Method: DIRDRI direct drilled **Rate, Unit:** 130000 S/A
Depth, Unit: 2 IN
Row Spacing, Unit: 30 IN
Soil Moisture: MOIST slightly wet **Emergence Date:** 6/5/2008
Harvest Date: 10/22/2008 **Harvest Equipment:** Gleaner F Combine
Harvested Width, Unit: 10 FT **Harvested Length, Unit:** 25 FT
% Standard Moisture: 13.0 **Moisture Meter:** Harvest Master
Weighing Equipment: Carter Manufacturing

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:** ABUTH Abutilon theophrasti

Common Name: Velvetleaf

Pest 4 Type: W **Code:** CHEAL Chenopodium album

Common Name: Common lambsquarters

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:** RAOBL Randomized Complete Block (RCB)

Untreated Arrangement: INCLUDED single control randomized in each block

Field Prep./Maintenance:

Field was field cultivated in the fall

Field was disked twice and then field cultivated on 4/23/08

Soil Description

Description Name: Field 4B

% OM: 2.9 **Texture:** SIL silt loam

pH: 6.2 **Soil Name:** Toronto-Millbrook

CEC: 13.3

Analyzed By:

A&L Great Lakes Laboratories, Inc. Report #: F04048-0006

Additional Measured Elements

Element	Quantity	Unit
P	34	ppm
K	124	ppm
Mg	430	ppm
Ca	1400	ppm

Moisture and Weather Conditions

Closest Weather Station: On research farm **Distance, Unit:** 0.5 MI

Comment:

Rain:

6/2/08: 0.74 in

6/4/08: 1.24 in

Application Description

	A	B
Application Date:	5/29/2008	6/23/2008
Time of Day:	7:10AM	8:55 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PREPLA	POSPOS
Application Placement:	BROFOL	BROFOL
Applied By:	CB MK	CB/MM/MK
Air Temperature, Unit:	50 F	62 F
% Relative Humidity:	100	86
Wind Velocity, Unit:	1.5 MPH	3 MPH
Wind Direction:	ESE	N
Dew Presence (Y/N):	Y yes	Y yes
Soil Temperature, Unit:	52 F	62 F
Soil Moisture:	DRY	DRY
% Cloud Cover:	20	0

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:	BSOY	BSOY
Stage Majority, Percent:	N/A	V2

Stage Minimum, Percent:	N/A	V1
Stage Maximum, Percent:	N/A	V2
Height, Unit:		5 IN
Height Minimum, Maximum:	4	6

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	2 NODE	
Stage Minimum, Percent:	COTY	
Stage Maximum, Percent:	4 NODE	
Height, Unit:	2.75 IN	24 IN
Height Minimum, Maximum:	0.5 5	8 40
Density, Unit:	12.5 YD2	35 YD2
Pest 2 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:	2 LF	
Stage Minimum, Percent:	1 LF	
Stage Maximum, Percent:	4 LF	
Height, Unit:	1.5 IN	14 IN
Height Minimum, Maximum:	0.5 2.5	4 24
Density, Unit:	30 YD2	75 YD2
Pest 3 Code, Type, Scale:	ABUTH W	ABUTH W
Stage Majority, Percent:	1 LF	
Stage Minimum, Percent:	COTY	
Stage Maximum, Percent:	1 LF	
Height, Unit:	0.5 IN	
Height Minimum, Maximum:	0 1	
Density, Unit:	1.5 YD2	
Pest 4 Code, Type, Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:	2 NODE	
Stage Minimum, Percent:	COTY	
Stage Maximum, Percent:	3 NODE	
Height, Unit:	1 IN	10 IN
Height Minimum, Maximum:	0 2	2 18
Density, Unit:	12.5 YD2	15 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

Trt No Treatment Application Comment

2 Spray applicator ran out of chemical on plot 1003

Date By Notes

5/25/2008 M.Kruger Due to adverse weather conditions the study was planted on 5/25/08 and the first application was made on 5/29/08

Purdue University

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Trial ID: 08S-THP-NTS-06 Protocol ID: 08S-THP-NTS-06
 Location: Throckmorton 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		AMBTR	SETFA	CHEAL				
Pest Scientific Name		Ambrosia trifi>	Setaria faberi		Ambrosia trifi>	Setaria faberi	Chenopodium al>				
Pest Name		Giant ragweed	Giant foxtail		Giant ragweed	Giant foxtail	Common lambsqu>				
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	JD7200; RR	JD7200; RR	JD7200; RR	JD7200; RR	JD7200; RR	JD7200; RR	JD7200; RR				
Part Rated	PLOT C	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P	PLOT P				
Rating Date	6/11/2008	6/11/2008	6/11/2008	6/23/2008	6/23/2008	6/23/2008	6/23/2008				
Rating Type	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1	1				
Crop Stage Majority	V1	V1	V1	V2	V2	V2	V2				
Crop Stage Minimum/Maximum				4-6"	4-6"	4-6"	4-6"				
Pest Stage Minimum/Maximum		2-18"	1-8"		8-40"	4-24"	2-18"				
Pest Density, Unit		4 FT2	60 FT2		35 YD2	75 YD2	15 YD2				
Assessed By	CB/AR	CB/AR	CB/AR	MK	MK	MK	MK				
Days After First/Last Applic.	13 13	13 13	13 13	25 0	25 0	25 0	25 0				
Plant-Eval Interval	17 DP-1	17 DP-1	17 DP-1	29 DP-1	29 DP-1	29 DP-1	29 DP-1				
Days After Emergence	6 DE-1	6 DE-1	6 DE-1	18 DE-	18 DE-	18 DE-	18 DE-				
ARM Action Codes											
Number of Decimals											
Trt	Treatment	Rate	Appl								
No.	Name	Rate	Unit	Code	1	2	3	4	5	6	7
1	Untreated Check				0.0 b	0.0 d	0.0 c	0.0 b	0.0 c	0.0 d	0.0 b
2	Valor XLT			A	3.8 b	87.0 ab	80.5 ab	3.5 b	81.3 a	68.0 ab	100.0 a
	Valor	0.9	oz ai/a	A							
	Classic	0.31	oz ai/a	A							
	COC	1	% v/v	A							
	Roundup PowerMAX	12.4	oz ae/a	B							
	Ammonium Sulfate	2	% w/w	B							
3	Valor XLT			A	13.8 a	89.8 ab	76.0 ab	8.8 ab	84.5 a	67.5 ab	98.8 a
	Valor	1.05	oz ai/a	A							
	Classic	0.362	oz ai/a	A							
	COC	1	% v/v	A							
	Roundup PowerMAX	12.4	oz ae/a	B							
	Ammonium Sulfate	2	% w/w	B							
4	Gangster			A	13.3 a	96.0 a	76.3 ab	12.5 a	93.5 a	60.0 abc	100.0 a
	FirstRate	0.336	oz ai/a	A							
	Valor	1.02	oz ai/a	A							
	COC	1	% v/v	A							
	Roundup PowerMAX	12.4	oz ae/a	B							
	Ammonium Sulfate	2	% w/w	B							
5	Gangster			A	7.5 ab	96.3 a	76.5 ab	5.5 ab	94.3 a	50.0 bc	97.5 a
	FirstRate	0.252	oz ai/a	A							
	Valor	0.765	oz ai/a	A							
	COC	1	% v/v	A							
	Roundup PowerMAX	12.4	oz ae/a	B							
	Ammonium Sulfate	2	% w/w	B							

Pest Type	W Weed	W Weed	W Weed	W Weed		
Pest Code	AMBTR	SETFA	AMBTR	SETFA		
Pest Scientific Name	Ambrosia trifi>	Setaria faberi	Ambrosia trifi>	Setaria faberi		
Pest Name	Giant ragweed	Giant foxtail	Giant ragweed	Giant foxtail		
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean
Crop Variety	AG3306	AG3306	AG3306	AG3306	AG3306	AG3306
Description	JD7200; RR	JD7200; RR	JD7200; RR	JD7200; RR	JD7200; RR	JD7200; RR
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	7/10/2008	7/10/2008	6/23/2008	6/23/2008	10/22/2008	10/22/2008
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	YIELD	YIELD
Rating Unit	%	%	%	%	LB	BU
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority	R2	R2	R2-R3	R2-R3	Mature	Mature
Crop Stage Minimum/Maximum	8-12"	8-12"	18-24"	18-24"		
Pest Stage Minimum/Maximum	28-60"	6-34"	24-84"	6-48"		
Pest Density, Unit	30 YD2	75 FT2	30 YD2	75 FT2		
Assessed By	MK AR	MK AR	GK	GK	PM	PM
Days After First/Last Applic.	42 17	42 17	25 0	25 0	146 121	146 121
Plant-Eval Interval	46 DP-1	46 DP-1	29 DP-1	29 DP-1	150 DP-1	150 DP-1
Days After Emergence	35 DE-	35 DE-	18 DE-	18 DE-	139 DE	139 DE
ARM Action Codes						TY1
Number of Decimals						1
Trt	Treatment	Rate	Appl			
No.	Name	Rate	Unit	Code	8	9
1	Untreated Check				0.0 e	0.0 e
2	Valor XLT			A	93.8 ab	97.5 ab
	Valor	0.9 oz ai/a	A			
	Classic	0.31 oz ai/a	A			
	COC	1 % v/v	A			
	Roundup PowerMAX	12.4 oz ae/a	B			
	Ammonium Sulfate	2 % w/w	B			
3	Valor XLT			A	96.5 a	98.0 ab
	Valor	1.05 oz ai/a	A			
	Classic	0.362 oz ai/a	A			
	COC	1 % v/v	A			
	Roundup PowerMAX	12.4 oz ae/a	B			
	Ammonium Sulfate	2 % w/w	B			
4	Gangster			A	96.8 a	97.8 ab
	FirstRate	0.336 oz ai/a	A			
	Valor	1.02 oz ai/a	A			
	COC	1 % v/v	A			
	Roundup PowerMAX	12.4 oz ae/a	B			
	Ammonium Sulfate	2 % w/w	B			
5	Gangster			A	96.3 a	98.3 ab
	FirstRate	0.252 oz ai/a	A			
	Valor	0.765 oz ai/a	A			
	COC	1 % v/v	A			
	Roundup PowerMAX	12.4 oz ae/a	B			
	Ammonium Sulfate	2 % w/w	B			

Pest Type		W Weed	W Weed		W Weed	W Weed	W Weed				
Pest Code		AMBTR	SETFA		AMBTR	SETFA	CHEAL				
Pest Scientific Name		Ambrosia trifi>	Setaria faberi		Ambrosia trifi>	Setaria faberi	Chenopodium al>				
Pest Name		Giant ragweed	Giant foxtail		Glant ragweed	Giant foxtail	Common lambsqu>				
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	JD7200; RR	JD7200; RR	JD7200; RR	JD7200; RR	JD7200; RR	JD7200; RR	JD7200; RR				
Part Rated	PLOT C	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P	PLOT P				
Rating Date	6/11/2008	6/11/2008	6/11/2008	6/23/2008	6/23/2008	6/23/2008	6/23/2008				
Rating Type	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1	1				
Crop Stage Majority	V1	V1	V1	V2	V2	V2	V2				
Crop Stage Minimum/Maximum				4-6"	4-6"	4-6"	4-6"				
Pest Stage Minimum/Maximum		2-18"	1-8"		8-40"	4-24"	2-18"				
Pest Density, Unit		4 FT2	60 FT2		35 YD2	75 YD2	15 YD2				
Assessed By	CB/AR	CB/AR	CB/AR	MK	MK	MK	MK				
Days After First/Last Applic.	13 13	13 13	13 13	25 0	25 0	25 0	25 0				
Plant-Eval Interval	17 DP-1	17 DP-1	17 DP-1	29 DP-1	29 DP-1	29 DP-1	29 DP-1				
Days After Emergence	6 DE-1	6 DE-1	6 DE-1	18 DE-	18 DE-	18 DE-	18 DE-				
ARM Action Codes											
Number of Decimals											
Trt	Treatment	Rate	Appl								
No.	Name	Rate	Unit	Code	1	2	3	4	5	6	7
6	Authority Pursuit	2.06	oz ai/a	A	0.5 b	36.0 c	62.5 b	0.5 b	17.5 c	27.5 cd	72.5 a
	COC	0.15	oz ai/a	A							
	Roundup PowerMAX	1	% v/v	A							
	Ammonium Sulfate	12.4	oz ae/a	B							
		2	% w/w	B							
7	Authority First	2.1	oz ai/a	A	0.0 b	86.3 ab	57.0 b	0.3 b	78.3 a	38.8 bc	100.0 a
	COC	1	% v/v	A							
	Roundup PowerMAX	12.4	oz ae/a	B							
	Ammonium Sulfate	2	% w/w	B							
8	Authority MTZ	5.4	oz ai/a	A	0.8 b	70.5 b	74.0 ab	1.3 b	50.0 b	37.5 bc	100.0 a
	COC	1	% v/v	A							
	Roundup PowerMAX	12.4	oz ae/a	B							
	Ammonium Sulfate	2	% w/w	B							
9	GLYFOS X-TRA	1	lb ae/a	A	1.5 b	88.0 ab	97.8 a	1.8 b	90.0 a	98.0 a	97.5 a
	Metribuzin 75DF	0.5	lb ai/a	A							
	Ammonium Sulfate	2	% w/w	A							
	Roundup PowerMAX	12.4	oz ae/a	B							
	Ammonium Sulfate	2	% w/w	B							
10	GLYFOS X-TRA	1	lb ae/a	A	7.5 ab	96.3 a	99.5 a	10.8 ab	96.3 a	99.3 a	100.0 a
	Metribuzin 75DF	1	lb ai/a	A							
	Ammonium Sulfate	2	% w/w	A							
	Roundup PowerMAX	12.4	oz ae/a	B							
	Ammonium Sulfate	2	% w/w	B							
11	GLYFOS X-TRA	1	lb ae/a	A	2.0 b	88.3 ab	98.0 a	3.0 b	83.8 a	97.0 a	100.0 a
	Metribuzin 75DF	0.5	lb ai/a	A							
	Prowl H2O	1.07	lb ai/a	A							
	Ammonium Sulfate	2	% w/w	A							
	Roundup PowerMAX	12.4	oz ae/a	B							
	Ammonium Sulfate	2	% w/w	B							
12	GLYFOS X-TRA	1	lb ae/a	A	0.5 b	87.8 ab	99.3 a	0.3 b	89.8 a	97.3 a	100.0 a
	Sencor 75DF	0.5	lb ai/a	A							
	Ammonium Sulfate	2	% w/w	A							
	Roundup PowerMAX	12.4	oz ae/a	B							
	Ammonium Sulfate	2	% w/w	B							
13	Rage D-TECH	0.51	lb ai/a	A	0.0 b	92.8 a	96.5 a	0.5 b	86.3 a	88.8 a	97.5 a
	Roundup PowerMAX	0.56	lb ae/a	A							
	Ammonium Sulfate	2	% w/w	A							
	Roundup PowerMAX	0.77	lb ae/a	B							
	Ammonium Sulfate	2	% w/w	B							

Pest Type	W Weed	W Weed	W Weed	W Weed					
Pest Code	AMBTR	SETFA	AMBTR	SETFA					
Pest Scientific Name	Ambrosia trifida	Setaria faberii	Ambrosia trifida	Setaria faberii					
Pest Name	Giant ragweed	Giant foxtail	Giant ragweed	Giant foxtail					
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA			
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY			
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max			
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean			
Crop Variety	AG3306	AG3306	AG3306	AG3306	AG3306	AG3306			
Description	JD7200; RR	JD7200; RR	JD7200; RR	JD7200; RR	JD7200; RR	JD7200; RR			
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P			
Rating Date	7/10/2008	7/10/2008	6/23/2008	6/23/2008	10/22/2008	10/22/2008			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	YIELD	YIELD			
Rating Unit	%	%	%	%	LB	BU			
Number of Subsamples	1	1	1	1	1	1			
Crop Stage Majority	R2	R2	R2-R3	R2-R3	Mature	Mature			
Crop Stage Minimum/Maximum	8-12"	8-12"	18-24"	18-24"					
Pest Stage Minimum/Maximum	28-60"	6-34"	24-84"	6-48"					
Pest Density, Unit	30 YD2	75 FT2	30 YD2	75 FT2					
Assessed By	MK AR	MK AR	GK	GK	PM	PM			
Days After First/Last Applic.	42 17	42 17	25 0	25 0	146 121	146 121			
Plant-Eval Interval	46 DP-1	46 DP-1	29 DP-1	29 DP-1	150 DP-1	150 DP-1			
Days After Emergence	35 DE-	35 DE-	18 DE-	18 DE-	139 DE	139 DE			
ARM Action Codes						TY1			
Number of Decimals						1			
Trt No.	Treatment Name	Rate	Appl Code	8	9	10	11	12	13
6	Authority Pursuit	2.06 oz ai/a	A	85.5 d	99.3 a	91.3 abc	97.0 a	12.78 ab	37.5 ab
	COC	0.15 oz ai/a	A						
	Roundup PowerMAX	1 % v/v	A						
	Ammonium Sulfate	12.4 oz ae/a	B						
	Ammonium Sulfate	2 % w/w	B						
7	Authority First	2.1 oz ai/a	A	93.5 ab	99.0 a	94.3 a	98.3 a	12.70 ab	37.3 ab
	COC	1 % v/v	A						
	Roundup PowerMAX	12.4 oz ae/a	B						
	Ammonium Sulfate	2 % w/w	B						
8	Authority MTZ	5.4 oz ai/a	A	91.0 abc	99.3 a	91.8 abc	97.3 a	16.35 a	48.0 a
	COC	1 % v/v	A						
	Roundup PowerMAX	12.4 oz ae/a	B						
	Ammonium Sulfate	2 % w/w	B						
9	GLYFOS X-TRA	1 lb ae/a	A	91.3 abc	93.0 cd	83.3 bcd	85.0 bc	12.20 ab	35.8 ab
	Metribuzin 75DF	0.5 lb ai/a	A						
	Ammonium Sulfate	2 % w/w	A						
	Roundup PowerMAX	12.4 oz ae/a	B						
	Ammonium Sulfate	2 % w/w	B						
10	GLYFOS X-TRA	1 lb ae/a	A	89.3 bcd	92.5 cd	76.3 d	80.8 c	11.55 ab	33.9 ab
	Metribuzin 75DF	1 lb ai/a	A						
	Ammonium Sulfate	2 % w/w	A						
	Roundup PowerMAX	12.4 oz ae/a	B						
	Ammonium Sulfate	2 % w/w	B						
11	GLYFOS X-TRA	1 lb ae/a	A	87.5 cd	94.8 bc	79.0 d	91.0 ab	14.53 a	42.7 a
	Metribuzin 75DF	0.5 lb ai/a	A						
	Prowl H2O	1.07 lb ai/a	A						
	Ammonium Sulfate	2 % w/w	A						
	Roundup PowerMAX	12.4 oz ae/a	B						
	Ammonium Sulfate	2 % w/w	B						
12	GLYFOS X-TRA	1 lb ae/a	A	87.3 cd	90.3 d	82.5 cd	83.5 bc	11.93 ab	35.0 ab
	Sencor 75DF	0.5 lb ai/a	A						
	Ammonium Sulfate	2 % w/w	A						
	Roundup PowerMAX	12.4 oz ae/a	B						
	Ammonium Sulfate	2 % w/w	B						
13	Rage D-TECH	0.51 lb ai/a	A	92.3 abc	95.8 abc	83.8 bcd	90.0 ab	12.56 ab	36.9 ab
	Roundup PowerMAX	0.56 lb ae/a	A						
	Ammonium Sulfate	2 % w/w	A						
	Roundup PowerMAX	0.77 lb ae/a	B						
	Ammonium Sulfate	2 % w/w	B						

Pest Type		W Weed	W Weed		W Weed	W Weed	W Weed			
Pest Code		AMBTR	SETFA		AMBTR	SETFA	CHEAL			
Pest Scientific Name		Ambrosia trifi>	Setaria faberi		Ambrosia trifi>	Setaria faberi	Chenopodium ai>			
Pest Name		Giant ragweed	Giant foxtail		Giant ragweed	Giant foxtail	Common lambsqu>			
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	JD7200; RR	JD7200; RR	JD7200; RR	JD7200; RR	JD7200; RR	JD7200; RR	JD7200; RR			
Part Rated	PLOT C	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P	PLOT P			
Rating Date	6/11/2008	6/11/2008	6/11/2008	6/23/2008	6/23/2008	6/23/2008	6/23/2008			
Rating Type	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1	1			
Crop Stage Majority	V1	V1	V1	V2	V2	V2	V2			
Crop Stage Minimum/Maximum				4-6"	4-6"	4-6"	4-6"			
Pest Stage Minimum/Maximum		2-18"	1-8"		8-40"	4-24"	2-18"			
Pest Density, Unit		4 FT2	60 FT2		35 YD2	75 YD2	15 YD2			
Assessed By	CB/AR	CB/AR	CB/AR	MK	MK	MK	MK			
Days After First/Last Applic.	13 13	13 13	13 13	25 0	25 0	25 0	25 0			
Plant-Eval Interval	17 DP-1	17 DP-1	17 DP-1	29 DP-1	29 DP-1	29 DP-1	29 DP-1			
Days After Emergence	6 DE-1	6 DE-1	6 DE-1	18 DE-	18 DE-	18 DE-	18 DE-			
ARM Action Codes										
Number of Decimals										
Trt Treatment	Rate	Appl								
No. Name	Rate	Unit	Code	1	2	3	4	5	6	7
14 Aim EC	0.0078	lb ai/a	A	0.8 b	95.0 a	99.3 a	1.8 b	96.5 a	98.8 a	100.0 a
Authority First	0.14	lb ai/a	A							
Roundup PowerMAX	0.56	lb ae/a	A							
Ammonium Sulfate	2	% w/w	A							
Roundup PowerMAX	0.77	lb ae/a	B							
Ammonium Sulfate	2	% w/w	B							
15 Untreated				0.0 b	0.0 d	0.0 c	0.0 b	0.0 c	0.0 d	0.0 b
LSD (P=.05)				6.22	13.23	17.03	6.12	20.19	24.40	18.21
Standard Deviation				4.35	9.26	11.92	4.28	14.13	17.07	12.74
CV				126.22	12.52	16.35	127.75	20.34	27.59	15.13
Bartlett's X2				52.32	57.465	75.178	71.641	59.57	86.23	33.883
P(Bartlett's X2)				0.001*	0.001*	0.001*	0.001*	0.001*	0.001*	0.001*
Replicate F				2.256	1.458	6.453	3.257	1.269	5.640	1.022
Replicate Prob(F)				0.0959	0.2398	0.0011	0.0308	0.2975	0.0024	0.3926
Treatment F				4.829	52.749	30.144	3.741	24.521	17.109	30.006
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0005	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.

Purdue University

Spring Burndown programs from Valent, Cheminova and FMC

Trial ID: 08S-THP-NTS-06 Protocol ID: 08S-THP-NTS-06
 Location: Throckmorton 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

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

YIELD = yield

Rating Unit

% = percent

LB = pound

BU = bushel

FT2 = per square foot

YD2 = per square yard

Plant-Eval Interval

17 DP-1 = 1 5/25/2008

29 DP-1 = 1 5/25/2008

46 DP-1 = 1 5/25/2008

150 DP-1 = 1 5/25/2008

ARM Action Codes

TY1 = 2.937379*12