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Cadet Postemergence in Soybeans

Trial ID: 11S-THP-CTS-48 Protocol ID: 11S-THP-CTS-48

Location: Throckmorton Study Director: White/Marquardt
 Project ID: FLUT.SOY.11.JPR.01 Investigator: Dr. Bill Johnson
 Sponsor Contact: FMC - Joe Reed

General Trial Information

Study Director: White/Marquardt **Title:** Research Associate
Investigator: Dr. Bill Johnson **Title:** Professor

Discipline: H herbicide

Trial Status: E established
Initiation Date: 4-9-2011

Trial Location

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

Personnel

Study Director: White/Marquardt **Title:** Research Associate

Affiliation: Purdue University
Address: 915 W State Street
Location: West Lafayette, IN, USA

Postal Code: 47907 **E-mail:** mdwhite@purdue.edu
Phone No.: 765-494-0891

Investigator: Dr. Bill Johnson **Title:** Professor

Affiliation: Purdue University
Address: 915 W State Street
Location: West Lafayette, IN, USA

Postal Code: 47907 **E-mail:** wgi@purdue.edu
Phone No.: 765-494-4656 **Mobile No.:** 765-404-9801

Cooperator/Landowner

Cooperator: Throckmorton Purdue Ag Center **Role:** Purdue Ag Center

Organization: Purdue University
Address 1: 8343 US 231 S

City: Lafayette

Phone No.: 765-538-3422
Fax No.: 765-538-3423

State/Prov: IN
Postal Code: 47909 **E-mail:** jayyoung@purdue.edu
Country: USA United States

Crop Description

Crop 1: GLXMA Glycine max Soybean

Variety: Asgrow AG2931

Description: RR2

BBCH Scale: BSOY
Planting Method: PLANTD planted

Planting Date: 5-10-2011
Rate, Unit: 124000 S/A

Depth, Unit: 1 IN
Row Spacing, Unit: 15 IN

Emergence Date: 5-16-2011

Pest Description

Pest 1 Type: W **Code:** AMBTR Ambrosia trifida

Common Name: Giant ragweed

Pest 2 Type: W **Code:** ABUTH Abutilon theophrasti

Common Name: Velvetleaf

Pest 3 Type: W **Code:** SETFA Setaria faberi

Common Name: Giant foxtail

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Site and Design

Plot Width, Unit: 10 FT
Plot Length, Unit: 30 FT
Plot Area, Unit: 300 FT²
Replications: 4

Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: CONTIL conventional-till
Study Design: RACOBL Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

Soil Description

Description Name: TPAC -Field 4A
% OM: 3.1 **Texture:** SIL silt loam
pH: 6 **Soil Name:** Toronto-Millbrook
CEC: 11.1

Application Description

	A	B
Application Date:	5-11-2011	6-1-2011
Time of Day:		9 AM
Application Method:	SPRAY	SPRAY
Application Timing:	ATPLAN	EAPOWE
Application Placement:	FOLIAR	FOLIAR
Applied By:		MH
Air Temperature, Unit:	81 F	74.2 F
% Relative Humidity:	65	47
Wind Velocity, Unit:	2.0 MPH	1.8 MPH
Wind Direction:	E	SW
Dew Presence (Y/N):	Y yes	Y yes
Soil Temperature, Unit:	68 F	70 F
Soil Moisture:	DRY	SLIWET
% Cloud Cover:	30	20

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		V1
Height, Unit:		2.5 IN

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:		3.5 IN
Height Minimum, Maximum:		2 5
Density, Unit:		5 YD2
Pest 2 Code, Type, Scale:	ABUTH W	ABUTH W
Height, Unit:		2 IN
Density, Unit:		2 YD2
Pest 3 Code, Type, Scale:	SETFA W	SETFA W
Height, Unit:		2.5 IN
Height Minimum, Maximum:		1 4
Density, Unit:		40 YD2

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Application Equipment

	A	B
Appl. Equipment:	CO2 BKPK	CO2 BKPK
Equipment Type:	SPRBAC	SPRBAC
Operation Pressure, Unit:	17 PSI	17 PSI
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	XR 110 02	XR 110 02
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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 Location: Throckmorton Study Director: White/Marquardt
 Project ID: FLUT.SOY.11.JPR.01 Investigator: Dr. Bill Johnson
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Pest Type	W Weed SETFA	W Weed AMBTR				W Weed AMBTR	W Weed SETFA	W Weed CHEAL			
Pest Code	Setaria faberi	Ambrosia trifi>				Ambrosia trifi>	Setaria faberi	Chenopodium al>			
Pest Scientific Name	Giant foxtail	Giant ragweed				Giant ragweed	Giant foxtail	Common lambsqu>			
Pest Name	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA			
Crop Code	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY			
BBCH Scale	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max			
Crop Scientific Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean			
Crop Name	4 IN	4 IN	4 IN	4 IN							
Description	5-31-2011	5-31-2011	5-31-2011	5-31-2011	6-9-2011	6-16-2011	6-16-2011	6-16-2011			
Rating Date	CONTRO	CONTRO	PHYSTU	PHYLMA	PHYGEN	CONTRO	CONTRO	CONTRO			
Rating Type	%	%	%	%	%	%	%	%			
Rating Unit	1	1	1	1	1	1	1	1			
Number of Subsamples	V1	V1	V1	V1	V3	V4-V5	V4-V5	V4-V5			
Crop Stage Majority	2 IN	3 IN				1-20 IN	1-18 IN	1-6 IN			
Pest Stage Majority	30 FT2	3 FT2	MW	MW	JR/RT	32.5YD2	62.5YD2	5.5 YD2			
Pest Density, Unit	MW	MW				PM/JS	PM/JS	PM/JS			
Assessed By	20 20	20 20	20 20	20 20	29 8	36 15	36 15	36 15			
Days After First/Last Applic.	21 DP-1	21 DP-1	21 DP-1	21 DP-1	30 DP-1	37 DP-1	37 DP-1	37 DP-1			
Plant-Eval Interval	15 DE-1	15 DE-1	15 DE-1	15 DE-1	24 DE-1	31 DE-1	31 DE-1	31 DE-1			
Days After Emergence											
Trt Treatment	Rate	Appl									
No. Name	Rate	Unit	Code	1	2	3	4	5	6	7	8
1 Untreated Check	0.0	lb ai/a	A	0.0 b	0.0 a	0.0 b	0.0 d	0.00 c	0.0 c	0.0 d	0.0 b
2 VALOR XLT	0.0378	lb ai/a	A	77.5 a	30.0 a	6.8 a	6.3 ab	2.25 b	96.5 ab	93.8 abc	100.0 a
ROUNDUP POWERMAX	0.95	lb ae/a	B								
AMS - Liquid	2.5	lb ai/a	B								
3 VALOR XLT	0.0378	lb ai/a	A	88.9 a	7.1 a	2.3 ab	5.7 abc	3.63 a	90.0 ab	90.0 bc	99.5 a
RESOURCE	0.0134	lb ai/a	B								
ROUNDUP POWERMAX	0.95	lb ae/a	B								
AMS - Liquid	2.5	lb ai/a	B								
4 VALOR XLT	0.0378	lb ai/a	A	93.0 a	22.5 a	4.5 ab	8.8 a	4.88 a	93.8 ab	97.3 ab	100.0 a
CADET	0.00427	lb ai/a	B								
ROUNDUP POWERMAX	0.95	lb ae/a	B								
AMS - Liquid	2.5	lb ai/a	B								
5 PREFIX	1.32	lb ai/a	A	94.3 a	37.5 a	2.0 ab	5.0 a-d	3.88 a	98.0 a	99.8 a	100.0 a
CADET	0.00427	lb ai/a	B								
ROUNDUP POWERMAX	0.95	lb ae/a	B								
AMS - Liquid	2.5	lb ai/a	B								
6 DUAL II MAGNUM	0.513	lb ai/a	A	88.0 a	7.5 a	0.0 b	2.3 bcd	4.75 a	91.3 ab	99.5 a	99.5 a
PURSUIT DG	0.0263	lb ai/a	A								
SENCOR	0.113	lb ai/a	A								
CADET	0.00427	lb ai/a	B								
ROUNDUP POWERMAX	0.95	lb ae/a	B								
AMS - Liquid	2.5	lb ai/a	B								
7 AUTHORITY XL	0.175	lb ai/a	A	68.8 a	17.5 a	0.0 b	0.8 cd	4.88 a	93.8 ab	97.3 ab	100.0 a
CADET	0.00427	lb ai/a	B								
ROUNDUP POWERMAX	0.95	lb ae/a	B								
AMS - Liquid	2.5	lb ai/a	B								
8 AUTHORITY FIRST DF	0.28	lb ai/a	A	95.5 a	45.0 a	4.0 ab	3.5 bcd	4.00 a	95.0 ab	98.5 a	100.0 a
CADET	0.00427	lb ai/a	B								
ROUNDUP POWERMAX	0.95	lb ae/a	B								
AMS - Liquid	2.5	lb ai/a	B								

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.

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Pest Type	W Weed	W Weed				W Weed	W Weed	W Weed	
Pest Code	SETFA	AMBTR				AMBTR	SETFA	CHEAL	
Pest Scientific Name	Setaria faberi	Ambrosia trifi>				Ambrosia trifi>	Setaria faberi	Chenopodium ai>	
Pest Name	Giant foxtail	Giant ragweed				Giant ragweed	Giant foxtail	Common lambsqu>	
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 Description	Soybean 4 IN	Soybean 4 IN	Soybean 4 IN	Soybean 4 IN	Soybean	Soybean	Soybean	Soybean	
Rating Date	5-31-2011	5-31-2011	5-31-2011	5-31-2011	6-9-2011	6-16-2011	6-16-2011	6-16-2011	
Rating Type	CONTRO	CONTRO	PHYSTU	PHYLMA	PHYGEN	CONTRO	CONTRO	CONTRO	
Rating Unit	%	%	%	%	%	%	%	%	
Number of Subsamples	1	1	1	1	1	1	1	1	
Crop Stage Majority	V1	V1	V1	V1	V3	V4-V5	V4-V5	V4-V5	
Pest Stage Majority	2 IN	3 IN				1-20 IN	1-18 IN	1-6 IN	
Pest Density, Unit Assessed By	30 FT2 MW	3 FT2 MW	MW	MW	JR/RT	32.5YD2 PM/JS	62.5YD2 PM/JS	5.5 YD2 PM/JS	
Days After First/Last Applic.	20 20	20 20	20 20	20 20	29 8	36 15	36 15	36 15	
Plant-Eval Interval	21 DP-1	21 DP-1	21 DP-1	21 DP-1	30 DP-1	37 DP-1	37 DP-1	37 DP-1	
Days After Emergence	15 DE-1	15 DE-1	15 DE-1	15 DE-1	24 DE-1	31 DE-1	31 DE-1	31 DE-1	
Trt Treatment No. Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	
	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	
	Code	Code	Code	Code	Code	Code	Code	Code	
	1	2	3	4	5	6	7	8	
9 CADET	0.00427 lb ai/a B	17.5 b	7.5 a	0.0 b	1.5 bcd	4.50 a	93.0 ab	90.0 bc	67.0 a
ROUNDUP POWERMAX	0.95 lb ae/a B								
AMS - Liquid	2.5 lb ai/a B								
10 ROUNDUP POWERMAX	0.95 lb ae/a B	20.0 b	0.0 a	0.0 b	1.5 bcd	0.00 c	88.3 b	88.8 c	72.5 a
AMS - Liquid	2.5 lb ai/a B								
LSD (P=.05)	29.66	28.42	3.58	3.28	1.197	5.22	5.14	21.16	
Standard Deviation	20.40	19.55	2.46	2.25	0.825	3.60	3.54	14.59	
CV	31.71	111.96	125.92	64.05	25.19	4.29	4.14	17.4	
Bartlett's X2	40.637	6.505	8.062	8.326	17.428	8.646	30.923	32.946	
P(Bartlett's X2)	0.001*	0.482	0.089	0.402	0.015*	0.195	0.001*	0.001*	
Replicate F	0.277	1.723	3.054	1.126	0.429	3.295	2.321	2.325	
Replicate Prob(F)	0.8417	0.1868	0.0461	0.3566	0.7342	0.0355	0.0977	0.0972	
Treatment F	13.182	2.625	3.870	6.260	21.098	271.174	293.324	19.296	
Treatment Prob(F)	0.0001	0.0263	0.0032	0.0001	0.0001	0.0001	0.0001	0.0001	

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Pest Type		W Weed AMBTR	W Weed SETFA	W Weed SETFA	W Weed AMBTR	W Weed AMBTR	W Weed SETFA		
Pest Code		Ambrosia trif>	Setaria faberi	Setaria faberi	Ambrosia trif>	Ambrosia trif>	Setaria faberi		
Pest Scientific Name		Giant ragweed GLXMA	Giant foxtail GLXMA	Giant foxtail GLXMA	Giant ragweed GLXMA	Giant ragweed GLXMA	Giant foxtail GLXMA	GLXMA	
Pest Name	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	
Crop Code	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	
BBCH Scale	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	
Crop Scientific Name		Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	
Description	10-15 IN								
Rating Date	6-21-2011	6-29-2011	6-29-2011	7-15-2011	7-15-2011	7-25-2011	7-25-2011	10-10-2011	
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	YIELD	
Rating Unit	% ₁	% ₁	% ₁	% ₁	% ₁	% ₁	% ₁	bu/ac ₁	
Number of Subsamples	1	1	1	1	1	1	1	1	
Crop Stage Majority	V5-V6	V7/R1	V7/R1	30 IN	6 FT	R5	R5		
Pest Stage Majority		36 IN	24 IN			75-84 IN	60 IN		
Pest Density, Unit		10 YD2	50 YD2	60 YD2	8 YD2	25 YD2	30 YD2		
Assessed By	CB/PM	JR/RT	JR/RT	MW	MW	RH	RH		
Days After First/Last Applic.	41 20	49 28	49 28	65 44	65 44	75 54	75 54	152 131	
Plant-Eval Interval	42 DP-1	50 DP-1	50 DP-1	66 DP-1	66 DP-1	76 DP-1	76 DP-1	153 DP-1	
Days After Emergence	36 DE-1	44 DE-1	44 DE-1	60 DE-1	60 DE-1	70 DE-1	70 DE-1	147 DE-1	
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	
No. Name	Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit	
Code	9	10	11	12	13	14	15	16	
1 Untreated Check		0.0 a	0.0 c	0.0 d	0.0 d	0.0 c	0.0 c	0.0 b	
2 VALOR XLT ROUNDUP POWERMAX AMS - Liquid	0.0378 lb ai/a A 0.95 lb ae/a B 2.5 lb ai/a B	2.0 a	67.5 ab	81.5 abc	91.3 bc	75.0 ab	69.5 ab	95.0 a	36.38 a
3 VALOR XLT RESOURCE ROUNDUP POWERMAX AMS - Liquid	0.0378 lb ai/a A 0.0134 lb ai/a B 0.95 lb ae/a B 2.5 lb ai/a B	0.8 a	51.3 b	78.0 bc	91.3 bc	50.0 ab	48.8 b	92.5 a	27.85 a
4 VALOR XLT CADET ROUNDUP POWERMAX AMS - Liquid	0.0378 lb ai/a A 0.00427 lb ai/a B 0.95 lb ae/a B 2.5 lb ai/a B	3.3 a	57.0 b	82.5 abc	95.5 ab	57.5 ab	50.8 ab	92.5 a	28.30 a
5 PREFIX CADET ROUNDUP POWERMAX AMS - Liquid	1.32 lb ai/a A 0.00427 lb ai/a B 0.95 lb ae/a B 2.5 lb ai/a B	0.8 a	83.5 a	95.8 a	99.0 a	81.3 a	82.3 a	97.5 a	48.33 a
6 DUAL II MAGNUM PURSUIT DG SENCOR CADET ROUNDUP POWERMAX AMS - Liquid	0.513 lb ai/a A 0.0263 lb ai/a A 0.113 lb ai/a A 0.00427 lb ai/a B 0.95 lb ae/a B 2.5 lb ai/a B	0.0 a	53.3 b	89.8 ab	98.0 ab	45.0 ab	42.0 b	95.0 a	27.39 a
7 AUTHORITY XL CADET ROUNDUP POWERMAX AMS - Liquid	0.175 lb ai/a A 0.00427 lb ai/a B 0.95 lb ae/a B 2.5 lb ai/a B	4.0 a	66.3 ab	86.3 abc	94.3 abc	62.5 ab	62.8 ab	95.0 a	33.15 a
8 AUTHORITY FIRST DF CADET ROUNDUP POWERMAX AMS - Liquid	0.28 lb ai/a A 0.00427 lb ai/a B 0.95 lb ae/a B 2.5 lb ai/a B	2.0 a	67.5 ab	93.3 a	97.0 ab	62.5 ab	62.0 ab	95.0 a	32.33 a

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Pest Type		W Weed AMBTR	W Weed SETFA	W Weed SETFA	W Weed AMBTR	W Weed AMBTR	W Weed SETFA					
Pest Code		AMBTR	SETFA	SETFA	AMBTR	AMBTR	SETFA					
Pest Scientific Name		Ambrosia trifi>	Setaria faberi	Setaria faberi	Ambrosia trifi>	Ambrosia trifi>	Setaria faberi					
Pest Name		Giant ragweed	Giant foxtail	Giant foxtail	Giant ragweed	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				
Description	10-15 IN											
Rating Date	6-21-2011	6-29-2011	6-29-2011	7-15-2011	7-15-2011	7-25-2011	7-25-2011	10-10-2011				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	YIELD				
Rating Unit	%	%	%	%	%	%	%	bu/ac				
Number of Subsamples	1	1	1	1	1	1	1	1				
Crop Stage Majority	V5-V6	V7/R1	V7/R1			R5	R5					
Pest Stage Majority		36 IN	24 IN	30 IN	6 FT	75-84 IN	60 IN					
Pest Density, Unit Assessed By	CB/PM	10 YD2 JR/RT	50 YD2 JR/RT	60 YD2 MW	8 YD2 MW	25 YD2 RH	30 YD2 RH					
Days After First/Last Applic.	41 20	49 28	49 28	65 44	65 44	75 54	75 54	152 131				
Plant-Eval Interval	42 DP-1	50 DP-1	50 DP-1	66 DP-1	66 DP-1	76 DP-1	76 DP-1	153 DP-1				
Days After Emergence	36 DE-1	44 DE-1	44 DE-1	60 DE-1	60 DE-1	70 DE-1	70 DE-1	147 DE-1				
Trt No.	Treatment Name	Rate	Unit	Appl Code	9	10	11	12	13	14	15	16
9	CADET	0.00427	lb ai/a	B	1.3 a	54.5 b	80.8 abc	91.3 bc	42.5 b	47.0 b	92.5 a	42.36 a
	ROUNDUP POWERMAX	0.95	lb ae/a	B								
	AMS - Liquid	2.5	lb ai/a	B								
10	ROUNDUP POWERMAX	0.95	lb ae/a	B	0.0 a	55.0 b	73.8 c	88.8 c	51.3 ab	53.8 ab	92.5 a	32.35 a
	AMS - Liquid	2.5	lb ai/a	B								
LSD (P= .05)		3.44				18.04	9.75	4.50	22.73	21.26	5.17	13.436
Standard Deviation		2.37				12.43	6.72	3.10	15.66	14.65	3.56	9.109
CV		169.48				22.38	8.82	3.66	29.7	28.25	4.2	26.58
Bartlett's X2		6.112				4.188	15.211	14.922	5.263	6.863	2.857	5.849
P(Bartlett's X2)		0.411				0.84	0.055	0.037*	0.729	0.551	0.943	0.664
Replicate F		2.783				2.913	1.227	1.987	5.451	6.729	8.737	7.332
Replicate Prob(F)		0.0601				0.0525	0.3191	0.1397	0.0046	0.0016	0.0003	0.0017
Treatment F		1.393				12.343	67.580	372.737	8.110	8.862	280.489	2.413
Treatment Prob(F)		0.2397				0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0527

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Trial ID: 11S-THP-CTS-48

Protocol ID: 11S-THP-CTS-48

Location: Throckmorton
Project ID: FLUT.SOY.11.JPR.01Study Director: White/Marquardt
Investigator: Dr. Bill Johnson

Sponsor Contact: FMC - Joe Reed

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

Crop Code

GLXMA, BSOY, Glycine max, = US

Rating Type

CONTRO = control / burndown or knockdown

PHYSTU = phytotoxicity - stunting

PHYLMA = phytotoxicity - leaf malformation

PHYGEN = phytotoxicity - general / injury

YIELD = yield

Rating Unit

% = percent

bu/ac = bushels per acre

FT2 = per square foot

YD2 = per square yard

Plant-Eval Interval

21 DP-1 = 1 GLXMA 5-10-2011

30 DP-1 = 1 GLXMA 5-10-2011

37 DP-1 = 1 GLXMA 5-10-2011

42 DP-1 = 1 GLXMA 5-10-2011

50 DP-1 = 1 GLXMA 5-10-2011

66 DP-1 = 1 GLXMA 5-10-2011

76 DP-1 = 1 GLXMA 5-10-2011

153 DP-1 = 1 GLXMA 5-10-2011