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Valor XLT burndown trial

Trial ID: 12S-SEP-NTS-09 Protocol ID: 12S-SEP-NTS-09
 Location: SEPAC Study Director: Paul Marquardt
 Project ID: Valor XLT MD 64.01 Investigator: Dr. Bill Johnson
 Sponsor Contact: Eric Ott

General Trial Information

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

Discipline: H herbicide
Trial Status: E established
Initiation Date: 3-9-2012

Trial Location

City: Butleville
State/Prov.: IN
Postal Code: 47223
Country: USA

Personnel

Study Director: Paul Marquardt **Title:** Research Associate

Affiliation: Purdue University
Address: 915 W. State Street
Location: West Lafayette, IN
Postal Code: 47907 **E-mail:** pmarquar@purdue.edu
Phone No.: 765-494-0891 **Mobile No.:** 765-409-6369

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

Affiliation: Purdue University
Address: 915 W. State Street
Location: West Lafayette, IN
Postal Code: 47907 **E-mail:** wgj@purdue.edu
Phone No.: 765-494-4656 **Mobile No.:** 765-404-9801

Cooperator/Landowner

Cooperator: Don Biehle **Role:** Director
Organization: Southeast Purdue Agricultural Center **Org. Type:** University
Address 1: 4425 E. CR 350 N

City: Butleville **Phone No.:** 812-458-6977
State/Prov.: IN **Fax No.:** 812-458-6979
Postal Code: 47223 **Mobile No.:** 812-592-8426
Country: USA United States **E-mail:** biehled@purdue.edu

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: AG2931 **Description:** Roundup Ready
BBCH Scale: BSOY **Planting Date:** 5-3-2012
Planting Method: DIRDRI direct drilled **Rate, Unit:** 140000 S/A
Depth, Unit: 1 IN
Row Spacing, Unit: 30 IN **Spacing Within Row, Unit:** 2 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 70 F
Soil Moisture: MOIST **Emergence Date:** 5-8-2012
Harvest Date: 10-25-2012 **Harvest Equipment:** Gleaner F3
Harvested Width, Unit: 10 FT **Harvested Length, Unit:** 25 FT
% Standard Moisture: 13.0 **Moisture Meter:** Carter 3" Blade
Weighing Equipment: HM400 Double Bucket

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Pest Description	
Pest 1 Type: W	Code: AMBEL <i>Ambrosia artemisiifolia</i> Common Name: Common ragweed
Pest 2 Type: W	Code: XANST <i>Xanthium strumarium</i> Common Name: Heart-leaf cocklebur
Pest 3 Type: W	Code: BROTE <i>Bromus tectorum</i> Common Name: Downy brome
Pest 4 Type: W	Code: DAUCA <i>Daucus carota</i> Common Name: Wild carrot
Pest 5 Type: W	Code: RANAB <i>Ranunculus abortivus</i> Common Name: Smallflower buttercup
Pest 6 Type: W	Code: ERICA <i>Conyza canadensis</i> Common Name: Canada horseweed
Pest 7 Type: W	Code: TAROF <i>Taraxacum officinale</i> Common Name: Common dandelion
Pest 8 Type: W	Code: SOLCA <i>Solanum carolinense</i> Common Name: Horsenettle

Site and Design	
Plot Width, Unit: 10 FT	Site Type: FIELD field
Plot Length, Unit: 30 FT	Experimental Unit: 1 PLOT plot
Plot Area, Unit: 300 FT ²	Tillage Type: NOTILL no-till
Replications: 4	Study Design: RACOB� Randomized Complete Block (RCB)
	Untreated Arrangement: INCLUDED single control randomized in each block

Maintenance								
No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Tank Mix
1.	5-17-2012	Roundup PowerMAX	4.5	LB/GAL	L	22	OZ/A	no

Comment: Applied over the entire trial, 14 DAT treatment 'A'

Soil Description	
Description Name: SEPAC-Field U4	
% Sand: 20	% OM: 1.8 Texture: SIL silt loam
% Silt: 65	pH: 5.6 Soil Name: Avonburg
% Clay: 15	CEC: 6.7 Fert. Level: G good
	Soil Drainage: P poor

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Application Description

	A
Application Date:	5-3-2012
Time of Day:	11 AM
Application Method:	SPRAY
Application Timing:	PREPOS
Application Placement:	FOLIAR
Applied By:	TL
Air Temperature, Unit:	78 F
% Relative Humidity:	79
Wind Velocity, Unit:	7.8 MPH
Wind Direction:	W
Dew Presence (Y/N):	N no
Soil Temperature, Unit:	70 F
Soil Moisture:	MOIST
% Cloud Cover:	75

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	GLXMA BSOY
Stage Scale Used:	BBCH
Stage Majority, Percent:	00 100

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Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale:	AMBEL W
Stage Majority, Percent:	12 100
Height, Unit:	1.5 IN
Height Minimum, Maximum:	1 2
Density, Unit:	25 YD2
Pest 2 Code, Type, Scale:	XANST W
Stage Majority, Percent:	09 100
Height, Unit:	1 IN
Height Minimum, Maximum:	1 1
Density, Unit:	2.5 YD2
Pest 3 Code, Type, Scale:	BROTE W
Stage Majority, Percent:	14 100
Height, Unit:	3.5 IN
Height Minimum, Maximum:	1 6
Density, Unit:	25 YD2
Pest 4 Code, Type, Scale:	DAUCA W
Stage Majority, Percent:	12 100
Height, Unit:	4 IN
Height Minimum, Maximum:	4 4
Density, Unit:	1 YD2
Pest 5 Code, Type, Scale:	RANAB W
Stage Majority, Percent:	89 100
Height, Unit:	6 IN
Height Minimum, Maximum:	6 6
Density, Unit:	1 YD2
Pest 6 Code, Type, Scale:	ERICA W
Stage Majority, Percent:	10 100
Height, Unit:	1 IN
Height Minimum, Maximum:	1 1
Density, Unit:	2.5 YD2
Pest 7 Code, Type, Scale:	TAROF W
Stage Majority, Percent:	40 100
Height, Unit:	4 IN
Height Minimum, Maximum:	4 4
Density, Unit:	5 YD2
Pest 8 Code, Type, Scale:	SOLCA W
Stage Majority, Percent:	11 100
Height, Unit:	2 IN
Height Minimum, Maximum:	2 2
Density, Unit:	2.5 YD2

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Application Equipment

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

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Valor XLT burndown trial

Trial ID: 12S-SEP-NTS-09 Protocol ID: 12S-SEP-NTS-09
 Location: SEPAC Study Director: Paul Marquardt
 Project ID: Valor XLT MD 64.01 Investigator: Dr. Bill Johnson
 Sponsor Contact: Eric Ott

Pest Type		W Weed ERICA	W Weed XANST	W Weed AMBEL		W Weed ERICA	W Weed XANST			
Pest Code		ERICA	XANST	AMBEL		ERICA	XANST			
Pest Scientific Name		Conyza canadensis	Xanthium strumarium	Ambrosia artemisiifolia		Conyza canadensis	Xanthium strumarium			
Pest Name		Canada horseweed	Heart-leaf cocklebur	Common ragweed		Canada horseweed	Heart-leaf cocklebur			
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	AG2931	AG2931	AG2931	AG2931	AG2931	AG2931	AG2931			
Description										
Part Rated	PLOT C	PLOT P	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P			
Rating Date	5-17-2012	5-17-2012	5-17-2012	5-17-2012	5-31-2012	5-31-2012	5-31-2012			
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1	1			
Crop Stage Majority	10	10	10	10	13	13	13			
Pest Stage Majority		1-3 IN	1-3 IN	1-3 IN		<1-2 IN	<1-3 IN			
Pest Density, Unit		1.5 M2	5 M2	7.5 M2		2.5 M2	1.5 M2			
Assessed By	PM	PM	PM	PM	JR/GC	JR/GC	JR/GC			
Days After First/Last Applic.	14 14	14 14	14 14	14 14	28 28	28 28	28 28			
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A			
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1	28 DP-1	28 DP-1	28 DP-1			
Days After Emergence	9 DE-1	9 DE-1	9 DE-1	9 DE-1	23 DE-1	23 DE-1	23 DE-1			
ARM Action Codes										
Number of Decimals										
Trt No.	Treatment Name	Rate	Appl Code	1	2	3	4	5	6	7
1	UNTREATED			0.0 a	0.0 b	0.0 b	0.0 b	0.0 a	0.0 b	0.0 b
2	Valor XLT	85 g ai/ha	A	0.0 a	93.8 a	99.5 a	87.5 a	1.3 a	100.0 a	99.5 a
	Roundup PowerMAX	870 g ae/ha	A							
	MSO	2340 g ai/ha	A							
	N-Pak AMS	2.5 % v/v	A							
3	Valor XLT	113 g ai/ha	A	0.0 a	97.5 a	90.8 a	90.0 a	0.5 a	95.0 a	96.3 a
	Roundup PowerMAX	870 g ae/ha	A							
	MSO	2340 g ai/ha	A							
	N-Pak AMS	2.5 % v/v	A							
4	Valor XLT	85 g ai/ha	A	0.0 a	100.0 a	97.0 a	93.8 a	0.0 a	98.3 a	94.3 a
	Sharpen	25 g ai/ha	A							
	Roundup PowerMAX	870 g ae/ha	A							
	MSO	2340 g ai/ha	A							
	N-Pak AMS	2.5 % v/v	A							
5	Valor XLT	113 g ai/ha	A	0.0 a	87.5 a	99.0 a	93.8 a	0.0 a	98.3 a	98.8 a
	Sharpen	25 g ai/ha	A							
	Roundup PowerMAX	870 g ae/ha	A							
	MSO	2340 g ai/ha	A							
	N-Pak AMS	2.5 % v/v	A							
6	Valor XLT	85 g ai/ha	A	0.0 a	87.5 a	90.0 a	100.0 a	0.0 a	96.3 a	92.5 a
	Ignite	595 g ai/ha	A							
	Roundup PowerMAX	870 g ae/ha	A							
	N-Pak AMS	2.5 % v/v	A							

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 ERICA	W Weed XANST	W Weed AMBEL		W Weed ERICA	W Weed XANST			
Pest Code		ERICA	XANST	AMBEL		ERICA	XANST			
Pest Scientific Name		Conyza canadensis	Xanthium strumarium	Ambrosia artemisiifolia		Conyza canadensis	Xanthium strumarium			
Pest Name		Canada horseweed	Heart-leaf cocklebur	Common ragweed		Canada horseweed	Heart-leaf cocklebur			
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	AG2931	AG2931	AG2931	AG2931	AG2931	AG2931	AG2931			
Description										
Part Rated	PLOT C	PLOT P	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P			
Rating Date	5-17-2012	5-17-2012	5-17-2012	5-17-2012	5-31-2012	5-31-2012	5-31-2012			
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1	1			
Crop Stage Majority	10	10	10	10	13	13	13			
Pest Stage Majority		1-3 IN	1-3 IN	1-3 IN		<1-2 IN	<1-3 IN			
Pest Density, Unit		1.5 M2	5 M2	7.5 M2		2.5 M2	1.5 M2			
Assessed By	PM	PM	PM	PM	JR/GC	JR/GC	JR/GC			
Days After First/Last Applic.	14 14	14 14	14 14	14 14	28 28	28 28	28 28			
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A			
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1	28 DP-1	28 DP-1	28 DP-1			
Days After Emergence	9 DE-1	9 DE-1	9 DE-1	9 DE-1	23 DE-1	23 DE-1	23 DE-1			
ARM Action Codes										
Number of Decimals										
Trt No.	Treatment Name	Rate	Appl Code	1	2	3	4	5	6	7
7	Valor XLT	85 g ai/ha	A	0.0 a	95.0 a	99.0 a	100.0 a	1.3 a	98.8 a	97.5 a
	Roundup PowerMAX	870 g ae/ha	A							
	Sharpen	25 g ai/ha	A							
	MSO	2340 g ai/ha	A							
	N-Pak AMS	2.5 % v/v	A							
	LSD (P=.05)			0.00	22.75	8.62	19.38	1.89	7.09	6.61
	Standard Deviation			0.00	15.31	5.80	13.04	1.27	4.77	4.45
	CV			0.0	19.1	7.06	16.16	296.53	5.7	5.38
	Bartlett's X2			0.0	8.003	25.683	3.026	5.163	10.213	14.356
	P(Bartlett's X2)			.	0.091	0.001*	0.388	0.076	0.037*	0.013*
	Replicate F			0.000	0.532	1.575	1.469	1.946	0.161	4.226
	Replicate Prob(F)			1.0000	0.6662	0.2300	0.2563	0.1584	0.9212	0.0199
	Treatment F			0.000	21.706	157.763	30.292	0.862	240.188	269.824
	Treatment Prob(F)			1.0000	0.0001	0.0001	0.0001	0.5405	0.0001	0.0001

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Pest Type	W Weed		W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBEL		SETFA	XANST	ERICA	AMBEL	
Pest Scientific Name	Ambrosia artem>		Setaria faberi	Xanthium strum>	Conyza canad>	Ambrosia artem>	
Pest Name	Common ragweed		Giant foxtail	Heart-leaf coc>	Canada horsewe>	Common 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	AG2931	AG2931	AG2931	AG2931	AG2931	AG2931	AG2931
Description	18-24 IN	18-24 IN	18-24 IN	18-24 IN	18-24 IN	18-24 IN	18-24 IN
Part Rated	PLOT P	PLOT C	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	5-31-2012	7-5-2012	7-5-2012	7-5-2012	7-5-2012	7-5-2012	10-25-2012
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	YIELD
Rating Unit	%	%	%	%	%	%	LB
Number of Subsamples	1	1	1	1	1	1	1
Crop Stage Majority	13	69	69	69	69	69	69
Pest Stage Majority	<1-4 IN		6-18 IN	6-24 IN	6-18 IN	6-24 IN	
Pest Density, Unit	5.5 M2		42.5M2	2.5 M2	2.5 M2	7.5 M2	
Assessed By	JR/GC	PM	PM	PM	PM	PM	PM
Days After First/Last Applic.	28 28	63 63	63 63	63 63	63 63	63 63	175 175
Trt-Eval Interval	14 DA-A	28 DA-A	63 DA-A	63 DA-A	63 DA-A	63 DA-A	63 DA-A
Plant-Eval Interval	28 DP-1	63 DP-1	63 DP-1	63 DP-1	63 DP-1	63 DP-1	175 DP-1
Days After Emergence	23 DE-1	58 DE-1	58 DE-1	58 DE-1	58 DE-1	58 DE-1	170 DE-1
ARM Action Codes							
Number of Decimals							
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code	8	9	10	11	12
1 UNTREATED			0.0 b	0.0 a	0.0 a	0.0 b	0.0 b
2 Valor XLT	85 g ai/ha A		86.3 a	0.0 a	2.5 a	99.5 a	100.0 a
Roundup PowerMAX	870 g ae/ha A						
MSO	2340 g ai/ha A						
N-Pak AMS	2.5 % v/v A						
3 Valor XLT	113 g ai/ha A		85.0 a	0.0 a	0.0 a	100.0 a	100.0 a
Roundup PowerMAX	870 g ae/ha A						
MSO	2340 g ai/ha A						
N-Pak AMS	2.5 % v/v A						
4 Valor XLT	85 g ai/ha A		95.8 a	0.0 a	2.5 a	98.8 a	100.0 a
Sharpen	25 g ai/ha A						
Roundup PowerMAX	870 g ae/ha A						
MSO	2340 g ai/ha A						
N-Pak AMS	2.5 % v/v A						
5 Valor XLT	113 g ai/ha A		95.8 a	0.0 a	2.5 a	100.0 a	100.0 a
Sharpen	25 g ai/ha A						
Roundup PowerMAX	870 g ae/ha A						
MSO	2340 g ai/ha A						
N-Pak AMS	2.5 % v/v A						
6 Valor XLT	85 g ai/ha A		95.0 a	0.0 a	7.5 a	91.3 a	97.5 a
Ignite	595 g ai/ha A						
Roundup PowerMAX	870 g ae/ha A						
N-Pak AMS	2.5 % v/v A						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	AMBEL	SETFA	XANST	ERICA	AMBEL				
Pest Scientific Name	Ambrosia artem>	Setaria faberi	Xanthium strum>	Conyza canadens>	Ambrosia artem>				
Pest Name	Common ragweed	Giant foxtail	Heart-leaf coc>	Canada horsewe>	Common 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	AG2931	AG2931	AG2931	AG2931	AG2931	AG2931	AG2931		
Description		18-24 IN	18-24 IN	18-24 IN	18-24 IN	18-24 IN	18-24 IN		
Part Rated	PLOT P	PLOT C	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P		
Rating Date	5-31-2012	7-5-2012	7-5-2012	7-5-2012	7-5-2012	7-5-2012	10-25-2012		
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	YIELD		
Rating Unit	%	%	%	%	%	%	LB		
Number of Subsamples	1	1	1	1	1	1	1		
Crop Stage Majority	13	69	69	69	69	69			
Pest Stage Majority	<1-4 IN		6-18 IN	6-24 IN	6-18 IN	6-24 IN			
Pest Density, Unit	5.5 M2		42.5M2	2.5 M2	2.5 M2	7.5 M2			
Assessed By	JR/GC	PM	PM	PM	PM	PM	PM		
Days After First/Last Applic.	28 28	63 63	63 63	63 63	63 63	63 63	175 175		
Trt-Eval Interval	14 DA-A	28 DA-A	63 DA-A	63 DA-A	63 DA-A	63 DA-A	63 DA-A		
Plant-Eval Interval	28 DP-1	63 DP-1	63 DP-1	63 DP-1	63 DP-1	63 DP-1	175 DP-1		
Days After Emergence	23 DE-1	58 DE-1	58 DE-1	58 DE-1	58 DE-1	58 DE-1	170 DE-1		
ARM Action Codes									
Number of Decimals									
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	8	9	10	11	12	13	14
7 Valor XLT	85 g ai/ha	A	97.5 a	0.0 a	7.5 a	95.0 a	100.0 a	42.5 ab	6.0546385 a
Roundup PowerMAX	870 g ae/ha	A							
Sharpen	25 g ai/ha	A							
MSO	2340 g ai/ha	A							
N-Pak AMS	2.5 % v/v	A							
LSD (P=.05)			15.52	0.00	10.38	8.36	2.81	49.57	2.33466362
Standard Deviation			10.45	0.00	6.99	5.63	1.89	33.37	1.57149581
CV			13.17	0.0	217.35	6.74	2.21	70.25	25.24
Bartlett's X2			18.782	0.0	6.172	14.478	0.0	2.307	3.288
P(Bartlett's X2)			0.002*	.	0.187	0.002*	.	0.805	0.772
Replicate F			2.087	0.000	2.024	1.794	1.000	0.044	0.932
Replicate Prob(F)			0.1377	1.0000	0.1465	0.1844	0.4155	0.9874	0.4456
Treatment F			45.753	0.000	0.805	172.560	1587.667	2.999	1.189
Treatment Prob(F)			0.0001	1.0000	0.5791	0.0001	0.0001	0.0327	0.3557

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Pest Type				
Pest Code				
Pest Scientific Name				
Pest Name				
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	AG2931	AG2931	AG2931	
Description				
Part Rated	PLOT P	PLOT P	PLOT P	
Rating Date	10-25-2012	10-25-2012	10-25-2012	
Rating Type	MOISTURE	YIELD	YIELD	
Rating Unit	%	BU	KG	
Number of Subsamples	1	1	1	
Crop Stage Majority				
Pest Stage Majority				
Pest Density, Unit				
Assessed By	PM	PM	PM	
Days After First/Last Applic.	175 175	175 175	175 175	
Trt-Eval Interval	63 DA-A	63 DA-A	63 DA-A	
Plant-Eval Interval	175 DP-1	175 DP-1	175 DP-1	
Days After Emergence	170 DE-1	170 DE-1	170 DE-1	
ARM Action Codes		TY1	TY2	
Number of Decimals		1	1	
Trt No.	Treatment	Rate	Appl	
	Name	Rate Unit	Code	
				15 16 17
1	UNTREATED			12.2555497 a 20.4 a 1373.5 a
2	Valor XLT	85 g ai/ha A		10.7703944 a 17.3 a 1163.0 a
	Roundup PowerMAX	870 g ae/ha A		
	MSO	2340 g ai/ha A		
	N-Pak AMS	2.5 % v/v A		
3	Valor XLT	113 g ai/ha A		11.6962578 a 22.1 a 1485.4 a
	Roundup PowerMAX	870 g ae/ha A		
	MSO	2340 g ai/ha A		
	N-Pak AMS	2.5 % v/v A		
4	Valor XLT	85 g ai/ha A		13.2947439 a 14.9 a 1004.8 a
	Sharpen	25 g ai/ha A		
	Roundup PowerMAX	870 g ae/ha A		
	MSO	2340 g ai/ha A		
	N-Pak AMS	2.5 % v/v A		
5	Valor XLT	113 g ai/ha A		11.7285797 a 15.9 a 1068.0 a
	Sharpen	25 g ai/ha A		
	Roundup PowerMAX	870 g ae/ha A		
	MSO	2340 g ai/ha A		
	N-Pak AMS	2.5 % v/v A		
6	Valor XLT	85 g ai/ha A		12.8341955 a 19.6 a 1317.2 a
	Ignite	595 g ai/ha A		
	Roundup PowerMAX	870 g ae/ha A		
	N-Pak AMS	2.5 % v/v A		

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Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
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	AG2931	AG2931	AG2931
Description			
Part Rated	PLOT P	PLOT P	PLOT P
Rating Date	10-25-2012	10-25-2012	10-25-2012
Rating Type	MOISTURE	YIELD	YIELD
Rating Unit	%	BU	KG
Number of Subsamples	1	1	1
Crop Stage Majority			
Pest Stage Majority			
Pest Density, Unit			
Assessed By	PM	PM	PM
Days After First/Last Applic.	175 175	175 175	175 175
Trt-Eval Interval	63 DA-A	63 DA-A	63 DA-A
Plant-Eval Interval	175 DP-1	175 DP-1	175 DP-1
Days After Emergence	170 DE-1	170 DE-1	170 DE-1
ARM Action Codes		TY1	TY2
Number of Decimals		1	1
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			15 16 17
7 Valor XLT	85 g ai/ha A		12.7633098 a 17.6 a 1184.7 a
Roundup PowerMAX	870 g ae/ha A		
Sharpen	25 g ai/ha A		
MSO	2340 g ai/ha A		
N-Pak AMS	2.5 % v/v A		
LSD (P=.05)	3.48257171	6.87	462.03
Standard Deviation	2.34416937	4.62	311.00
CV	19.23	25.32	25.32
Bartlett's X2	10.306	3.05	3.05
P(Bartlett's X2)	0.112	0.803	0.803
Replicate F	1.789	1.159	1.158
Replicate Prob(F)	0.1853	0.3529	0.3529
Treatment F	0.539	1.219	1.219
Treatment Prob(F)	0.7720	0.3419	0.3419

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Valor XLT burndown trial

Trial ID: 12S-SEP-NTS-09 Protocol ID: 12S-SEP-NTS-09
 Location: SEPAC Study Director: Paul Marquardt
 Project ID: Valor XLT MD 64.01 Investigator: Dr. Bill Johnson
 Sponsor Contact: Eric Ott

Pest Type

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

Pest Code

ERICA, Conyza canadensis, = US
 XANST, Xanthium strumarium, = US
 AMBEL, Ambrosia artemisiifolia, = US
 SETFA, Setaria faberi, = US

Crop Code

GLXMA, BSOY, Glycine max, = US

Part Rated

PLOT = plot
 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
 KG = kilogram

Crop Stage Majority

10 = Cotyledons completely unfolded
 13 = Trifoliolate leaf on the 3rd node unfolded
 69 = End of flowering: first pods visible (approx. 5 mm length)

M2 = per square meter

Plant-Eval Interval

14 DP-1 = 1 GLXMA 5-3-2012
 28 DP-1 = 1 GLXMA 5-3-2012
 63 DP-1 = 1 GLXMA 5-3-2012
 175 DP-1 = 1 GLXMA 5-3-2012

ARM Action Codes

TY1 = $2.904 \cdot [14] \cdot (100 - [15]) / 87$
 TY2 = $195.2984 \cdot [14] \cdot (100 - [15]) / 87$