

Northeast Research & Extension Center

TOUGH WEED PROGRAM - LENGHT OF CONTROL

Protocol Number: VUSA2011FIERCCEMD64.01 RIS Trial Number: _____
 Gris Trial ID-Affiliate: _____ Year: _____ User: _____ No.: _____
 Protocol ID-Affiliate: VUSA Year: 2011 Product: FIERCE Org: MD No.: 64.01
 Investigator: _____
 By: Stevan Knezevic Location: _____

Required fields on: X

RIS Trial No: _____ RIS Protocol No: VUSA2011FIERCCEMD64.01
 Initiated: _____ Investigator: _____
 Trial Status: _____ Site No: _____
 Affil. Confidential: _____ Conduct Under GEP/GLP: _____
 Trial Contracted: _____ Affil. Ref. Prot.: _____
 Contractor Study No: _____ Affil Trial Code: _____

Guideline	Description

Keywords:

Trial Registrability: _ Investigator Reliability: _
 -Latitude of LL Corner °: _____ -Longitude of LL Corner °: _____

Investigator: _____ Inv. Affil.: _____

Trial Site Location

Site Address: 57905 866 Road
 Town/County: Concord Country: US UNITED STATES OF AMERICA
 State: NE NEBRASKA Region: NANP NA. N. GREAT PLAINS
 Postal Code: 68728

Type of Trial: S Small Plot No.Reps: 4 No. Trt.: 14
 Experimental Design: R RANDOMIZED COMPLETE BLOCK Other: _____
 Statistical Analysis for EDE Export Other: _____
 Plot Width, Unit: 6.667 FT Application: _____
 Plot Length, Unit: 25 FT Plot Description: _____
 Plot Area: _____ Unit: _____
 Previous Crop: _____

Objectives: To demonstrate the ability of preemergence application of Valor (2.0 oz/A), Valor XLT (3 oz/A) and Fierce (3, 3.75 and 4.5 oz/A) to control tough weeds. Key measure is weed control at 28, 35, 42, 49 and 56 DAT compared to standards. All treatments are core.

Crop Description

Crop 1: GLXM02 Soybean, Roundup Ready Glycine max GMO
 Variety Code: _____
 Variety: LG Seeds C2699R
 Description: _____
 Planting Method: S Seeded Root Stock: _____
 Planting Date Info: EXACT Planting/Transplanting Date: 06-16-11
 Emergence Date: _____
 Planting Depth, Unit: 1.25 IN Row Spacing, Unit: 30 IN
 Planting Rate, Unit: 149000 s/A Seeds per Acre
 Soil Moisture: 3 75% TO FIELD CAPACITY (MOIST)

Pest Description

Pest 1 Type: W Code: SETVI Foxtail, Green
Scientific Name: Setaria viridis

Pest 2 Type: W Code: HIBTR Mallow, Venice
Scientific Name: Hibiscus trionum

Pest 3 Type: W Code: ABUTH Velvetleaf
Scientific Name: Abutilon theophrasti

Pest 4 Type: W Code: ERICA Horseweed
Scientific Name: Conyza canadensis

Pest 5 Type: W Code: EPHMA Spurge, Spotted
Scientific Name: Euphorbia maculata

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APPLICATION INFORMATION	
Application Code	
	A
Application Date:	06-16-11
Application Amount, Unit:	15 GAL/A
Time of Day:	07:00 PM
Air Temp, Unit:	86 F
% Relative Humidity:	40
Wind Speed, Unit, Direction:	5. MPH S
Dew Presence:	N
Soil Temp 2 in., Unit:	74 F
Soil Moisture:	3 75% TO FIELD CAPACITY (MOIST)
Cloud Cover (%):	0
First Rain/Irr, Unit:	
Time, Unit:	
Applied By:	

APPLICATION EQUIPMENT INFORMATION	
Application Code	
	A
Appl Equipment:	BASB BACKPACK SPRAYER BOOM
Op Pressure, Unit:	20 PSI
Nozzle Type:	Turbo Teejet
Nozzle Spacing, Unit:	20 IN
Nozzles per Row:	
Nozzles per Boom:	4
Band Width, Unit:	
Boom Swath, Unit:	80 IN
Boom Height, Unit:	12 IN
Ground Speed, Unit:	2.7 MPH
Incorporation Equip:	
Hours to Incorp.:	
Incorp Depth, Unit:	
Carrier:	water
Carrier pH:	
Propellant:	CO2 CARBON DIOXIDE

SOIL DESCRIPTION	
Texture: SICL SILTY CLAY LOAM	
% Sand: 10	% Silt: 58 % Clay: 32 Test Site Slope (°): 3.0
% OM: 2.4	pH: 5.6 CEC: 18.6

SIGNIFICANT RAINFALL/IRRIGATION EVENTS					
	Date	Amount	Unit	Type	Irrigation/Rainfall Notes
1.					

Irrigation Type: _____

Seasonal rainfall/irrigation during experiment: _____

ACTIVITY LOG			
	Date	Event	Responsible Party
1.			

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CROP INFORMATION AT EACH APPLICATION

Application Code

	A
Crop 1 Code, BBCH Grow Stg:	GLXM02
Descriptive Growth Stage:	
Min, Max Height:	
Growth Condition:	

*Min/Max height unit for Crop(s)/Weed(s) is: __

PEST STAGE AT EACH APPLICATION

	A
Pest 1 Code, Type:	SETVI W
BBCH Growth Stage:	
Growth Stage:	
Min, Max Height:	
Density, Unit:	
Relative Pest Density:	
Growth Condition:	
Natural Infestation:	
Pest 2 Code, Type:	HIBTR W
BBCH Growth Stage:	
Growth Stage:	
Min, Max Height:	
Density, Unit:	
Relative Pest Density:	
Growth Condition:	
Natural Infestation:	
Pest 3 Code, Type:	ABUTH W
BBCH Growth Stage:	
Growth Stage:	
Min, Max Height:	
Density, Unit:	
Relative Pest Density:	
Growth Condition:	
Natural Infestation:	
Pest 4 Code, Type:	ERICA W
BBCH Growth Stage:	
Growth Stage:	
Min, Max Height:	
Density, Unit:	
Relative Pest Density:	
Growth Condition:	
Natural Infestation:	
Pest 5 Code, Type:	EPHMA W
BBCH Growth Stage:	
Growth Stage:	
Min, Max Height:	
Density, Unit:	
Relative Pest Density:	
Growth Condition:	
Natural Infestation:	

*Min/Max height unit for Crop(s)/Weed(s) is: __

PERTINENT TRIAL NOTES

Locally used commercial varieties
Tough weeds (Lambsquarters, waterhemp, C. ragweed, Palmer, M.G.)

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CONCLUSIONS

Report Date: _____
Conclusions: _____

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TOUGH WEED PROGRAM - LENGHT OF CONTROL

Protocol Number: VUSA2011FIERCEND64.01 RIS Trial Number:

Gris Trial ID-Affiliate: Year: User: No.:

Protocol ID-Affiliate: VUSA Year: 2011 Product: FIERCE Org: MD No.: 64.01

Investigator: By: Stevan Knezevic Location:

Crop Name	Soybean, Roundup Ready											
Pest Name		Foxtail, Green	Foxtail, Green	Velvetleaf	Velvetleaf	Horseweed	Horseweed	Mallow, Venice				
Evaluation Date	07-18-11	07-18-11	08-03-11	07-18-11	08-03-11	07-18-11	08-03-11	07-18-11	07-18-11			
Days After Trt	32 DA-A	32 DA-A	48 DA-A	32 DA-A	48 DA-A	32 DA-A	48 DA-A	32 DA-A	32 DA-A			
Days After First/Last Applic.	32 32	32 32	48 48	32 32	48 48	32 32	48 48	32 32	32 32			
Plant-Eval Interval	32 DP-1	32 DP-1	48 DP-1	32 DP-1	48 DP-1	32 DP-1	48 DP-1	32 DP-1	32 DP-1			
Rating Data Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONPRE	CONPRE	CONPRE			
Rating Unit	%	%	%	%	%	%	%	%	%			
Trt No	Product	Appl Rate	Appl Meth	Appl Code	1	2	3	4	5	6	7	8
1	UNTREATED CHECK				0.0 a	0.0 d	0.0 d	0.0 b	0.0 a	0.0 d	0.0 d	0.0 c
2	VALOR SX	2 oz wt/a	PREE	A	0.0 a	93.0 ab	85.0 ab	90.0 a	90.0 a	75.0 abc	75.0 abc	99.0 a
3	VALOR XLT	3 oz wt/a	PREE	A	0.0 a	98.0 a	98.5 a	97.0 a	99.0 a	93.0 a	99.0 a	99.0 a
4	FIERCE	3 oz wt/a	PREE	A	0.0 a	87.3 abc	81.3 abc	70.0 a	75.0 a	85.0 ab	83.8 abc	89.5 a
5	FIERCE	3.75 oz wt/a	PREE	A	0.0 a	94.3 ab	91.0 a			55.0 c	70.0 bc	99.0 a
6	FIERCE	4.5 oz wt/a	PREE	A	0.0 a	92.7 ab	91.3 a	99.0 a	90.0 a	81.0 abc	78.5 abc	94.0 a
7	AUTHORITY ASSIST	5 fl oz/a	PREE	A	0.0 a	75.0 bc	85.0 ab			73.8 abc	72.5 abc	94.5 a
8	PREFIX	1 qt/a	PREE	A	0.0 a	95.5 ab	94.7 a	76.3 a	60.0 a	62.5 bc	60.0 c	89.5 a
9	AUTHORITY FIRST	3.2 oz wt/a	PREE	A	0.0 a	76.3 bc	69.8 bc			96.0 a	81.3 abc	84.5 a
10	OPTILL X	2 oz wt/a	PREE	A	0.0 a	94.3 ab	92.3 a	97.0 a	99.0 a	87.0 ab	92.0 ab	
11	V-10206	1 oz wt/a	PREE	A	0.0 a	85.7 abc	94.7 a	99.0 a	99.0 a	99.0 a	99.0 a	99.0 a
	VALOR SX	1.75 oz wt/a	PREE	A								
	CLASSIC	1.25 oz wt/a	PREE	A								
12	OPTILL X	2 oz wt/a	PREE	A	0.0 a	98.8 a	94.5 a	99.0 a	99.0 a	95.0 a	86.7 ab	92.7 a
	V-10206	1.5 oz wt/a	PREE	A								
13	AUTHORITY MTZ	11 oz wt/a	PREE	A	0.0 a	67.3 c	62.5 c	99.0 a	80.0 a	88.8 ab	87.3 ab	
14	AUTHORITY XL	4 oz wt/a	PREE	A	0.0 a	72.5 c	67.5 bc	83.3 a	76.3 a	91.7 ab	99.0 a	60.0 b
LSD (P=.05)		0.00			17.81	17.48	30.01	45.81	25.59	22.84	22.41	
Standard Deviation		0.00			12.46	12.10	16.51	20.36	17.72	15.82	12.95	
CV		0.0			15.44	15.29	19.96	25.82	22.92	20.43	15.53	
Grand Mean		0.0			80.74	79.14	82.7	78.85	77.33	77.43	83.39	
Replicate F		0.000			0.233	0.140	0.234	0.142	0.768	0.612	0.211	
Replicate Prob(F)		1.0000			0.8729	0.9351	0.8694	0.9282	0.5211	0.6118	0.8855	
Treatment F		0.000			16.608	17.627	12.577	8.171	8.420	10.124	19.233	
Treatment Prob(F)		1.0000			0.0001	0.0001	0.0060	0.0552	0.0001	0.0001	0.0009	

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Crop Name				Spurge, Spotted	Soybean	Soybean
Pest Name						
Evaluation Date				07-18-11	10-05-11	10-05-11
Days After Trt				32 DA-A	111 DA-A	111 DA-A
Days After First/Last Applic.				32 32	111 111	111 111
Plant-Eval Interval				32 DP-1	111 DP-1	111 DP-1
Rating Data Type				CONPRE	MOICON	YIELD
Rating Unit				%	%	BU/A
Trt	Appl Rate	Appl	Appl			
No Product	Rate Unit	Meth	Code	9	10	11
1	UNTREATED CHECK			0.0 b	8.17000089 a	28.8066702 a
2	VALOR SX	2 oz wt/a	PREE A	95.5 a	7.99250110 a	29.7233363 a
3	VALOR XLT	3 oz wt/a	PREE A	93.0 a	7.97500070 a	29.5866691 a
4	FIERCE	3 oz wt/a	PREE A	94.5 a	8.34250057 a	30.4833366 a
5	FIERCE	3.75 oz wt/a	PREE A	99.0 a	8.10750089 a	29.1566687 a
6	FIERCE	4.5 oz wt/a	PREE A	99.0 a	8.21250044 a	28.7500029 a
7	AUTHORITY ASSIST	5 fl oz/a	PREE A	89.5 a	8.46250046 a	31.4300034 a
8	PREFIX	1 qt/a	PREE A	94.3 a	8.25250041 a	30.8766701 a
9	AUTHORITY FIRST	3.2 oz wt/a	PREE A	92.0 a	7.94750102 a	30.5700028 a
10	OPTILL X	2 oz wt/a	PREE A	91.8 a	7.72500068 a	28.9833365 a
11	V-10206	1 oz wt/a	PREE A	92.5 a	8.45500077 a	31.1866696 a
	VALOR SX	1.75 oz wt/a	PREE A			
	CLASSIC	1.25 oz wt/a	PREE A			
12	OPTILL X	2 oz wt/a	PREE A	86.0 a	7.94750102 a	30.1933357 a
	V-10206	1.5 oz wt/a	PREE A			
13	AUTHORITY MTZ	11 oz wt/a	PREE A	96.0 a	8.51500024 a	33.4600024 a
14	AUTHORITY XL	4 oz wt/a	PREE A	94.3 a	8.17250143 a	29.4300032 a
LSD (P=.05)				13.22	0.715031636	2.82245593
Standard Deviation				9.15	0.500350049	1.67805271
CV				10.53	6.13	5.56
Grand Mean				86.95	8.16	30.19
Replicate F				0.896	2.070	5.843
Replicate Prob(F)				0.4548	0.1199	0.0083
Treatment F				30.453	0.853	1.770
Treatment Prob(F)				0.0001	0.6053	0.1067

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Protocol ID-Affiliate: VUSA Year: 2011 Product: FIERCE Org: MD No. : 64.01
Investigator:
By: Stevan Knezevic Location:

Plant-Eval Interval
32 DP-1 = 1 06-16-11
48 DP-1 = 1 06-16-11
111 DP-1 = 1 06-16-11
Rating Data Type
PHYGEN = PHYTOTOXICITY - GENERAL / INJURY
CONTRO = CONTROL / BURNDOWN or KNOCKDOWN
CONPRE = CONTROL - PREEMERGE / PREINFESTATION / PREINFECTION
MOICON = MOISTURE CONTENT
Rating Unit
% = PERCENT