

Northeast Research & Extension Center

2009 Annual Weed control in Soybean

Trial ID: 09 SRR-6 SB Pre Post Program	Protocol ID: 09 SRR Weed Control
Location: Concord, NE	Study Director:
Project ID:	Investigator: Stevan Knezevic
	Sponsor Contact:

General Trial Information

Investigator: Stevan Knezevic

Trial Status: F one-year/final

Trial Location

City: Concord  
 State/Prov.: NE  
 Postal Code: 68728  
 Country: USA

Personnel

Investigator: Stevan Knezevic

Crop Description

Crop 1:	GLXMA	Glycine max	Soybean
	Variety:	Kruger 310	Description: Row 1,2,3 on odd plots (left)
	BBCH Scale:	BSOY	Planting Date: 05-28-09
	Planting Method:	SEEDED seeded	Rate, Unit: 156816 s/a
	Depth, Unit:	1.5 in	
	Row Spacing, Unit:	30 in	
	Seed Bed:	MEDTRA medium/trashy	
	Soil Moisture:	SLIDRY slightly dry	Emergence Date: 06-04-09
	Harvest Date:	11-07-09	Harvest Equipment: Almaco SP 40
	Harvested Width, Unit:	5 ft	Harvested Length, Unit: 27.5 ft
	% Standard Moisture:	13.0	Moisture Meter: Almaco
	Weighing Equipment:	Almaco	

Crop 2:	GLXMA	Glycine max	Soybean
	Variety:	Pioneer 93M11	Description: Row 4,5,6 on odd plots (right)
	BBCH Scale:	BSOY	Planting Date: 05-28-09
	Planting Method:	SEEDED seeded	Rate, Unit: 156816 s/a
	Depth, Unit:	1.5 in	
	Row Spacing, Unit:	30 in	
	Seed Bed:	MEDTRA medium/trashy	
	Soil Moisture:	SLIDRY slightly dry	Emergence Date: 06-04-09
	Harvest Date:	11-07-09	Harvest Equipment: Almaco SP 40
	Harvested Width, Unit:	5 ft	Harvested Length, Unit: 27.5 ft
	% Standard Moisture:	13.0	Moisture Meter: Almaco
	Weighing Equipment:	Almaco	

Pest Description

Pest 1 Type: W Code: SETVI *Setaria viridis*  
 Common Name: Green foxtail  
 Description: Some purple robust mixed in

Pest 2 Type: W Code: DIGIS *Digitaria ischaemum*  
 Common Name: Smooth crabgrass

Pest 3 Type: W Code: HIBTR *Hibiscus trionum*  
 Common Name: Venice mallow

Pest 4 Type: W Code: AMATU *Amaranthus tuberculatus*  
 Common Name: Tall waterhemp

Pest 5 Type: W Code: ABUTH *Abutilon theophrasti*  
 Common Name: Velvetleaf

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Pest 6 Type: W Code: EPHHT Euphorbia humistrata  
Common Name: Prostrate spurge

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: 3 Study Design: RACOB� Randomized Complete Block (RCB)

	Previous Crops	Previous Pesticides	Year
1.	soybean	glyphosate	2008

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Tank Mix
1.	05-18-09	glyphosate	5.4	lbai/ga	SL	48	oz/A	no

Soil Description

% Sand: 14 % OM: 2.2 Texture: SICL silty clay loam  
% Silt: 58 pH: 5.5  
% Clay: 28 CEC: 15.3 Fert. Level: P poor

Analyzed By:  
Midwest Labs  
buffer pH = 6.6

Application Description

	A	B	C
Application Date:	05-29-09		07-01-09
Time of Day:	7:00 pm		12:00 pm
Application Method:	spray		spray
Application Timing:	PRE		POST
Application Placement:	surface		foliar
Applied By:	js		js
Air Temperature, Unit:	80 F		81 F
% Relative Humidity:	25		38
Wind Velocity, Unit:	2 mph		3 mph
Wind Direction:	E		S
Dew Presence (Y/N):	N no		N no
Soil Temperature, Unit:	75 F		
Soil Moisture:	dry		adequate
% Cloud Cover:	30		28

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:	BBCH		BBCH
Stage Majority, Percent:			3T 100
Height, Unit:			6 in
Height Minimum, Maximum:			5 7
Crop 2 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:	BBCH		BBCH
Stage Majority, Percent:			3T 100
Height, Unit:			6 in
Height Minimum, Maximum:			5 7

Pest Stage At Each Application

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	A		B		C	
Pest 1 Code, Type, Scale:	SETVI	W	SETVI	W	SETVI	W
Height, Unit:					6	in
Height Minimum, Maximum:					4	8
Density, Unit:					20	m2
Pest 2 Code, Type, Scale:	DIGIS	W	DIGIS	W	DIGIS	W
Height, Unit:					4	in
Height Minimum, Maximum:					3	5
Density, Unit:					20	m2
Pest 3 Code, Type, Scale:	HIBTR	W	HIBTR	W	HIBTR	W
Height, Unit:					6	in
Height Minimum, Maximum:					4	8
Density, Unit:					5	m2
Pest 4 Code, Type, Scale:	AMATU	W	AMATU	W	AMATU	W
Height, Unit:					6	in
Height Minimum, Maximum:					4	8
Density, Unit:					3	m2
Pest 5 Code, Type, Scale:	ABUTH	W	ABUTH	W	ABUTH	W
Height, Unit:					6	in
Height Minimum, Maximum:					4	8
Density, Unit:					1	m2
Pest 6 Code, Type, Scale:	EPHHT	W	EPHHT	W	EPHHT	W
Diameter, Unit:					6	in
Height, Unit:					2	in
Height Minimum, Maximum:					1.5	2.5
Density, Unit:					10	m2

Application Equipment

	A		B	C	
Appl. Equipment:	backpack			backpack	
Operating Pressure, Unit:	20	psi		20	psi
Nozzle Type:	Turbo Tee			Turbo Tee	
Nozzle Size:	11003			11003	
Nozzle Spacing, Unit:	20	IN		20	IN
Boom Length, Unit:	10	FT		10	FT
Boom Height, Unit:	12	IN		12	IN
Ground Speed, Unit:	2.7 MPH			2.7 MPH	
Carrier:	WATER			WATER	
Spray Volume, Unit:	20	GPA		20	GPA
Mix Size, Unit:	1.8	Liters		1.8	Liters
Propellant:	co2			co2	

Date            By            Notes

07-01-09        js            EPOSTapplication not applied on treatment 5. Only one shot here applied at timing C

07-16-09        js            Left protocol as listed. Only the A and C timings were sprayed on this protocol. LPOST were not applied, no weeds present.

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2009 Annual Weed control in Soybean

Trial ID: 09 SRR-6 SB Pre Post Program      Protocol ID: 09 SRR Weed Control  
 Location: Concord, NE      Study Director:  
 Project ID:      Investigator: Stevan Knezevic  
    Sponsor Contact:

Description						Pioneer Soybean	Pioneer Soybean	Pioneer Soybean	Kruger Soybean	Kruger Soybean
Rating Date						11-07-09	11-07-09	11-07-09	11-07-09	11-07-09
Rating Type						Yield@13%	Moisture	Test weight	Yield@13%	Moisture
Rating Unit						bu/A	%	lb/bu	bu/A	%
Days After First/Last Applic.						129	129	129	129	129
Trt-Eval Interval						162 DA-A	162 DA-A	162 DA-A	162 DA-A	162 DA-A
Trt No.	Treatment Name	Rate	Rate Unit	Growth Stage	Appl Code	1	2	3	4	5
1	Sonic	3	oz/a	PRE	A	44.430 a	11.400 a	60.320 a	44.917 ab	11.140 a
	Durango DMA	24	oz/a	POST	C					
	AMS	2	% v/v	POST	C					
2	Sonic	4.5	oz/a	PRE	A	41.560 a	11.323 a	60.560 a	44.093 abc	11.140 a
	Durango DMA	24	oz/a	POST	C					
	AMS	2	% v/v	POST	C					
3	Durango DMA	24	oz/a	POST	C	48.240 a	11.677 a	60.580 a	45.090 ab	11.117 a
	Firstrate	0.3	oz/a	POST	C					
	AMS	2	% v/v	POST	C					
	Durango DMA	24	oz/a	LPOST						
	AMS	2	% v/v	LPOST						
4	Dual II Magnum	1	pt/a	PRE	A	48.733 a	11.593 a	60.660 a	43.757 abc	11.023 a
	Flexstar GT	3	pt/a	POST	C					
	NIS	0.25	% v/v	POST	C					
	AMS	17	lb/100 gal	POST	C					
5	Touchdown Total	24	oz/a	EPOST		50.933 a	11.703 a	60.503 a	45.777 ab	11.153 a
	AMS	17	lb/100 gal	EPOST						
	Touchdown Total	24	oz/a	MPOST	C					
	AMS	17	lb/100 gal	MPOST	C					
6	Prefix	2	pt/a	PRE	A	50.887 a	11.617 a	60.580 a	46.280 a	11.060 a
	Touchdown Total	24	oz/a	MPOST	C					
	AMS	17	lb/100 gal	MPOST	C					
7	Valor SX	2	oz/a	PRE	A	49.757 a	11.527 a	60.500 a	43.167 abc	11.020 a
	Touchdown Total	24	oz/a	MPOST	C					
	AMS	17	lb/100 gal	MPOST	C					
8	Sonic	3	oz/a	PRE	A	47.710 a	11.727 a	60.380 a	43.743 abc	11.190 a
	Touchdown Total	24	oz/a	MPOST	C					
	AMS	17	lb/100 gal	MPOST	C					
9	Cadet	0.5	oz/a	MPOST	C	44.443 a	11.367 a	59.747 a	39.567 c	10.940 a
	Touchdown Total	35	oz/a	MPOST	C					
	AMS	17	lb/100 gal	MPOST	C					
	NIS	0.25	% v/v	MPOST	C					
10	Cadet	0.7	oz/a	MPOST	C	42.237 a	11.433 a	59.707 a	39.907 c	11.060 a
	Touchdown Total	35	oz/a	MPOST	C					
	AMS	17	lb/100 gal	MPOST	C					
	NIS	0.25	% v/v	MPOST	C					
11	Cadet	0.9	oz/a	MPOST	C	42.223 a	11.623 a	59.667 a	39.777 c	11.037 a
	Touchdown Total	35	oz/a	MPOST	C					
	AMS	17	lb/100 gal	MPOST	C					
	NIS	0.25	% v/v	MPOST	C					

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Description						Pioneer Soybean	Pioneer Soybean	Pioneer Soybean	Kruger Soybean	Kruger Soybean
Rating Date						11-07-09	11-07-09	11-07-09	11-07-09	11-07-09
Rating Type						Yield@13%	Moisture	Test weight	Yield@13%	Moisture
Rating Unit						bu/A	%	lb/bu	bu/A	%
Days After First/Last Applic.						129	129	129	129	129
Trt-Eval Interval						162 DA-A	162 DA-A	162 DA-A	162 DA-A	162 DA-A
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	1	2	3	4	5
12	Touchdown Total	35	oz/a	MPOST	C	39.567 a	11.383 a	60.445 a	41.173 bc	11.073 a
	AMS	17	lb/100 gal	MPOST	C					
	NIS	0.25	% v/v	MPOST	C					
LSD (P=.05)						12.3476	0.7763	1.2570	4.6890	0.2907
Standard Deviation						7.2916	0.4584	0.7356	2.7689	0.1716
CV						15.89	3.98	1.22	6.42	1.55
Grand Mean						45.89	11.53	60.3	43.1	11.08
Bartlett's X2						22.352	5.765	18.076	5.917	6.622
P(Bartlett's X2)						0.022*	0.889	0.08	0.879	0.829
Replicate F						0.612	0.118	0.408	5.193	0.638
Replicate Prob(F)						0.5512	0.8888	0.6708	0.0142	0.5377
Treatment F						0.882	0.295	0.765	2.270	0.511
Treatment Prob(F)						0.5697	0.9799	0.6688	0.0490	0.8753

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.



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Description						Kruger Soybean	soybean	soybean	soybean	soybean	Green foxtail	Green foxtail	Green foxtail
Rating Date						11-07-09	06-30-09	07-06-09	07-16-09	07-29-09	06-30-09	07-08-09	07-16-09
Rating Type						Test weight	Crop Injury	Necrosis	Necrosis	Necrosis	Control	Control	Control
Rating Unit						lb/bu	%	%	%	%	%	%	%
Days After First/Last Applic.						129	32	5	15	28	32	7	15
Trt-Eval Interval						162 DA-A							
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	6	7	8	9	10	11	12	13
12	Touchdown Total	35	oz/a	MPOST	C	58.753 a		0.0 e	0.0 c	0.0 d		99.0 a	99.0 a
	AMS	17	lb/100 gal	MPOST	C								
	NIS	0.25	% v/v	MPOST	C								
LSD (P=.05)						3.7618	0.00	3.91	3.57	2.25	20.72	0.00	0.00
Standard Deviation						2.2214	0.00	2.31	2.11	1.33	11.39	0.00	0.00
CV						3.72	0.0	40.13	69.57	58.41	15.65	0.0	0.0
Grand Mean						59.76	0.0	5.75	3.03	2.28	72.78	99.0	99.0
Bartlett's X2						24.968	0.0	1.384	2.252	4.432	8.137	0.0	0.0
P(Bartlett's X2)						0.009*	.	0.709	0.689	0.218	0.087	.	.
Replicate F						2.069	0.000	1.142	1.546	1.428	0.717	0.000	0.000
Replicate Prob(F)						0.1502	1.0000	0.3373	0.2353	0.2612	0.5115	1.0000	1.0000
Treatment F						1.611	0.000	34.983	12.819	26.665	6.210	0.000	0.000
Treatment Prob(F)						0.1640	1.0000	0.0001	0.0001	0.0001	0.0072	1.0000	1.0000





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Description						Green foxtail	Green foxtail	Crabgrass	Crabgrass	Crabgrass	Crabgrass	Velvetleaf	Velvetleaf
Rating Date						07-16-09	07-29-09	07-08-09	07-16-09	07-16-09	07-29-09	06-30-09	07-08-09
Rating Type						Density	Control	Control	Control	Density	Control	Control	Control
Rating Unit						m2 RunCH	%	%	%	m2 RunCH	%	%	%
Days After First/Last Applic.						15	28	7	15	15	28	32	7
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	14	15	16	17	18	19	20	21
12	Touchdown Total	35	oz/a	MPOST	C	6.7 a	99.0 a	99.0 a	99.0 a	2.3 b	99.0 a		99.0 a
	AMS	17	lb/100 gal	MPOST	C								
	NIS	0.25	% v/v	MPOST	C								
LSD (P=.05)						7.34	0.28	0.00	0.00	1.75	0.00	20.45	1.13
Standard Deviation						4.24	0.17	0.00	0.00	0.96	0.00	11.24	0.67
CV						48.52	0.17	0.0	0.0	57.58	0.0	15.75	0.67
Grand Mean						8.74	98.97	99.0	99.0	1.67	99.0	71.39	98.89
Bartlett's X2						5.936	0.0	0.0	0.0	3.021	0.0	13.842	0.0
P(Bartlett's X2)						0.821	.	.	.	0.697	.	0.003*	.
Replicate F						1.392	1.000	0.000	0.000	0.068	0.000	1.725	1.000
Replicate Prob(F)						0.2772	0.3840	1.0000	1.0000	0.9348	1.0000	0.2271	0.3840
Treatment F						0.914	1.000	0.000	0.000	3.521	0.000	29.259	1.000
Treatment Prob(F)						0.5491	0.4767	1.0000	1.0000	0.0285	1.0000	0.0001	0.4767



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Description						Velvetleaf	Velvetleaf	Velvetleaf	Waterhemp	Waterhemp	Waterhemp	Waterhemp	Waterhemp
Rating Date						07-16-09	07-16-09	07-29-09	06-30-09	07-08-09	07-16-09	07-16-09	07-29-09
Rating Type						Control	Density	Control	Control	Control	Control	Density	Control
Rating Unit						%	m2 RunCH	%	%	%	%	m2 RunCH	%
Days After First/Last Applic.						15	15	28	32	7	15	15	28
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	22	23	24	25	26	27	28	29
12	Touchdown Total	35	oz/a	MPOST	C	99.0 a	1.3 a	99.0 a		99.0 a	99.0 a	4.0 b	99.0 a
	AMS	17	lb/100 gal	MPOST	C								
	NIS	0.25	% v/v	MPOST	C								
LSD (P=.05)						0.00	1.69	0.00	13.44	0.00	0.00	4.03	0.00
Standard Deviation						0.00	0.98	0.00	7.27	0.00	0.00	2.33	0.00
CV						0.0	80.06	0.0	7.93	0.0	0.0	60.33	0.0
Grand Mean						99.0	1.22	99.0	91.75	99.0	99.0	3.86	99.0
Bartlett's X2						0.0	8.678	0.0	7.577	0.0	0.0	5.939	0.0
P(Bartlett's X2)						.	0.034*	.	0.056	.	.	0.82	.
Replicate F						0.000	1.247	0.000	2.302	0.000	0.000	0.139	0.000
Replicate Prob(F)						1.0000	0.3122	1.0000	0.1559	1.0000	1.0000	0.8708	1.0000
Treatment F						0.000	0.717	0.000	1.936	0.000	0.000	2.521	0.000
Treatment Prob(F)						1.0000	0.7083	1.0000	0.1834	1.0000	1.0000	0.0454	1.0000

Description						P.Spurge	P.Spurge	P.Spurge	P.Spurge	Venice Mallow	Venice Mallow	Venice Mallow
Rating Date						07-08-09	07-16-09	07-16-09	07-29-09	07-08-09	07-16-09	07-16-09
Rating Type						Control	Control	Density	Control	Control	Control	Density
Rating Unit						%	%	m2 RunCH	%	%	%	m2 RunCH
Days After First/Last Applic.						7	15	15	28	7	15	15
Trt-Eval Interval												
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	30	31	32	33	34	35	36
1	Sonic	3 oz/a		PRE	A	99.0 a	99.0 a	12.0 a	99.0 a	98.3 a	99.0 a	7.3 a
	Durango DMA	24 oz/a		POST	C							
	AMS	2 % v/v		POST	C							
2	Sonic	4.5 oz/a		PRE	A	99.0 a	99.0 a	7.0 a	99.0 a	99.0 a	99.0 a	6.3 a
	Durango DMA	24 oz/a		POST	C							
	AMS	2 % v/v		POST	C							
3	Durango DMA	24 oz/a		POST	C	94.7 ab	99.0 a	7.5 a	99.0 a	91.3 a	99.0 a	4.0 a
	Firstrate	0.3 oz/a		POST	C							
	AMS	2 % v/v		POST	C							
	Durango DMA	24 oz/a		LPOST								
	AMS	2 % v/v		LPOST								
4	Dual II Magnum	1 pt/a		PRE	A	99.0 a	99.0 a	14.7 a	99.0 a	99.0 a	99.0 a	11.7 a
	Flexstar GT	3 pt/a		POST	C							
	NIS	0.25 % v/v		POST	C							
	AMS	17 lb/100 gal		POST	C							
5	Touchdown Total	24 oz/a		EPOST		93.0 bc	99.0 a	10.0 a	99.0 a	93.0 a	99.0 a	3.5 a
	AMS	17 lb/100 gal		EPOST								
	Touchdown Total	24 oz/a		MPOST	C							
	AMS	17 lb/100 gal		MPOST	C							
6	Prefix	2 pt/a		PRE	A	99.0 a	99.0 a	8.3 a	99.0 a	92.7 a	99.0 a	12.0 a
	Touchdown Total	24 oz/a		MPOST	C							
	AMS	17 lb/100 gal		MPOST	C							
7	Valor SX	2 oz/a		PRE	A	99.0 a	99.0 a	10.0 a	99.0 a	99.0 a	99.0 a	4.0 a
	Touchdown Total	24 oz/a		MPOST	C							
	AMS	17 lb/100 gal		MPOST	C							
8	Sonic	3 oz/a		PRE	A	99.0 a	99.0 a	12.0 a	99.0 a	99.0 a	99.0 a	1.0 a
	Touchdown Total	24 oz/a		MPOST	C							
	AMS	17 lb/100 gal		MPOST	C							
9	Cadet	0.5 oz/a		MPOST	C	99.0 a	99.0 a	17.5 a	99.0 a	99.0 a	99.0 a	4.0 a
	Touchdown Total	35 oz/a		MPOST	C							
	AMS	17 lb/100 gal		MPOST	C							
	NIS	0.25 % v/v		MPOST	C							
10	Cadet	0.7 oz/a		MPOST	C	99.0 a	99.0 a	10.0 a	99.0 a	99.0 a	99.0 a	6.5 a
	Touchdown Total	35 oz/a		MPOST	C							
	AMS	17 lb/100 gal		MPOST	C							
	NIS	0.25 % v/v		MPOST	C							
11	Cadet	0.9 oz/a		MPOST	C	99.0 a	99.0 a	10.3 a	99.0 a	99.0 a	99.0 a	8.3 a
	Touchdown Total	35 oz/a		MPOST	C							
	AMS	17 lb/100 gal		MPOST	C							
	NIS	0.25 % v/v		MPOST	C							

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Description						P.Spurge	P.Spurge	P.Spurge	P.Spurge	Venice Mallow	Venice Mallow	Venice Mallow
Rating Date						07-08-09	07-16-09	07-16-09	07-29-09	07-08-09	07-16-09	07-16-09
Rating Type						Control	Control	Density	Control	Control	Control	Density
Rating Unit						%	%	m2 RunCH	%	%	%	m2 RunCH
Days After First/Last Applic.						7	15	15	28	7	15	15
Trt-Eval Interval												
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	30	31	32	33	34	35	36
12	Touchdown Total	35	oz/a	MPOST	C	88.3 c	99.0 a	15.3 a	99.0 a	88.3 a	99.0 a	8.3 a
	AMS	17	lb/100 gal	MPOST	C							
	NIS	0.25	% v/v	MPOST	C							
LSD (P=.05)						5.13	0.00	12.71	0.00	7.65	0.00	10.12
Standard Deviation						3.03	0.00	7.34	0.00	4.52	0.00	5.88
CV						3.11	0.0	65.42	0.0	4.68	0.0	91.58
Grand Mean						97.25	99.0	11.22	99.0	96.39	99.0	6.42
Bartlett's X2						0.599	0.0	9.032	0.0	7.735	0.0	7.124
P(Bartlett's X2)						0.741	.	0.34	.	0.102	.	0.714
Replicate F						0.518	0.000	1.718	0.000	0.394	0.000	3.668
Replicate Prob(F)						0.6029	1.0000	0.2110	1.0000	0.6792	1.0000	0.0474
Treatment F						3.918	0.000	0.580	0.000	2.238	0.000	0.966
Treatment Prob(F)						0.0031	1.0000	0.8183	1.0000	0.0519	1.0000	0.5090

Description						Venice Mallow
Rating Date						07-29-09
Rating Type						Control
Rating Unit						%
Days After First/Last Applic.						28
Trt-Eval Interval						
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	
						37
1	Sonic	3	oz/a	PRE	A	99.0 a
	Durango DMA	24	oz/a	POST	C	
	AMS	2	% v/v	POST	C	
2	Sonic	4.5	oz/a	PRE	A	99.0 a
	Durango DMA	24	oz/a	POST	C	
	AMS	2	% v/v	POST	C	
3	Durango DMA	24	oz/a	POST	C	99.0 a
	Firstrate	0.3	oz/a	POST	C	
	AMS	2	% v/v	POST	C	
	Durango DMA	24	oz/a	LPOST		
	AMS	2	% v/v	LPOST		
4	Dual II Magnum	1	pt/a	PRE	A	99.0 a
	Flexstar GT	3	pt/a	POST	C	
	NIS	0.25	% v/v	POST	C	
	AMS	17	lb/100 gal	POST	C	
5	Touchdown Total	24	oz/a	EPOST		99.0 a
	AMS	17	lb/100 gal	EPOST		
	Touchdown Total	24	oz/a	MPOST	C	
	AMS	17	lb/100 gal	MPOST	C	
6	Prefix	2	pt/a	PRE	A	99.0 a
	Touchdown Total	24	oz/a	MPOST	C	
	AMS	17	lb/100 gal	MPOST	C	
7	Valor SX	2	oz/a	PRE	A	99.0 a
	Touchdown Total	24	oz/a	MPOST	C	
	AMS	17	lb/100 gal	MPOST	C	
8	Sonic	3	oz/a	PRE	A	99.0 a
	Touchdown Total	24	oz/a	MPOST	C	
	AMS	17	lb/100 gal	MPOST	C	
9	Cadet	0.5	oz/a	MPOST	C	99.0 a
	Touchdown Total	35	oz/a	MPOST	C	
	AMS	17	lb/100 gal	MPOST	C	
	NIS	0.25	% v/v	MPOST	C	
10	Cadet	0.7	oz/a	MPOST	C	99.0 a
	Touchdown Total	35	oz/a	MPOST	C	
	AMS	17	lb/100 gal	MPOST	C	
	NIS	0.25	% v/v	MPOST	C	
11	Cadet	0.9	oz/a	MPOST	C	99.0 a
	Touchdown Total	35	oz/a	MPOST	C	
	AMS	17	lb/100 gal	MPOST	C	
	NIS	0.25	% v/v	MPOST	C	

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Description						Venice Mallow
Rating Date						07-29-09
Rating Type						Control
Rating Unit						%
Days After First/Last Applic.						28
Trt-Eval Interval						
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	
						37
12	Touchdown Total	35	oz/a	MPOST	C	99.0 a
	AMS	17	lb/100 gal	MPOST	C	
	NIS	0.25	% v/v	MPOST	C	
LSD (P=.05)						0.00
Standard Deviation						0.00
CV						0.0
Grand Mean						99.0
Bartlett's X2						0.0
P(Bartlett's X2)						.
Replicate F						0.000
Replicate Prob(F)						1.0000
Treatment F						0.000
Treatment Prob(F)						1.0000

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2009 Annual Weed control in Soybean

Trial ID: 09 SRR-6 SB Pre Post Program      Protocol ID: 09 SRR Weed Control  
Location: Concord, NE      Study Director:  
Project ID:      Investigator: Stevan Knezevic  
Sponsor Contact:

Rating Unit

% = percent



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2009 Annual Weed control in Soybean

Trial ID: 09 SRR-6 SB Pre Post Program Protocol ID: 09 SRR Weed Control  
 Location: Concord, NE Study Director:  
 Project ID: Investigator: Stevan Knezevic  
 Sponsor Contact:

Description						Pioneer Soybean	Pioneer Soybean	Pioneer Soybean	Kruger Soybean	Kruger Soybean
Rating Date						11-07-09	11-07-09	11-07-09	11-07-09	11-07-09
Rating Type						Yield@13%	Moisture	Test weight	Yield@13%	Moisture
Rating Unit						bu/A	%	lb/bu	bu/A	%
Days After First/Last Applic.						129	129	129	129	129
Trt-Eval Interval						162 DA-A	162 DA-A	162 DA-A	162 DA-A	162 DA-A
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code Plot	1	2	3	4	5
1	Sonic	3 oz/a		PRE	A 101	53.870	12.120	60.380	47.930	11.460
	Durango DMA	24 oz/a		POST	C 207	50.890	11.450	60.260	43.930	10.960
	AMS	2 % v/v		POST	C 312	28.530	10.630		42.890	11.000
					Mean =	44.430	11.400	60.320	44.917	11.140
2	Sonic	4.5 oz/a		PRE	A 102	51.050	12.010	60.740	46.360	11.380
	Durango DMA	24 oz/a		POST	C 212	26.660	10.720		41.350	11.060
	AMS	2 % v/v		POST	C 308	46.970	11.240	60.380	44.570	10.980
					Mean =	41.560	11.323	60.560	44.093	11.140
3	Durango DMA	24 oz/a		POST	C 103	53.640	11.960	60.980	48.720	11.290
	Firstrate	0.3 oz/a		POST	C 210	48.390	11.210	60.140	45.040	11.010
	AMS	2 % v/v		POST	C 304	42.690	11.860	60.620	41.510	11.050
	Durango DMA	24 oz/a		LPOST						
	AMS	2 % v/v		LPOST						
					Mean =	48.240	11.677	60.580	45.090	11.117
4	Dual II Magnum	1 pt/a		PRE	A 104	51.200	11.840	60.980	45.040	11.230
	Flexstar GT	3 pt/a		POST	C 209	50.850	11.330	60.260	43.160	10.990
	NIS	0.25 % v/v		POST	C 306	44.150	11.610	60.740	43.070	10.850
	AMS	17 lb/100 gal		POST	C					
					Mean =	48.733	11.593	60.660	43.757	11.023
5	Touchdown Total	24 oz/a		EPOST	105	51.970	11.900	61.100	49.760	11.170
	AMS	17 lb/100 gal		EPOST	203	52.500	11.990	60.380	43.990	11.280
	Touchdown Total	24 oz/a		MPOST	C 310	48.330	11.220	60.030	43.580	11.010
	AMS	17 lb/100 gal		MPOST	C					
					Mean =	50.933	11.703	60.503	45.777	11.153
6	Prefix	2 pt/a		PRE	A 106	53.480	11.700	61.340	50.660	10.910
	Touchdown Total	24 oz/a		MPOST	C 208	50.350	11.270	60.140	45.580	11.010
	AMS	17 lb/100 gal		MPOST	C 301	48.830	11.880	60.260	42.600	11.260
					Mean =	50.887	11.617	60.580	46.280	11.060
7	Valor SX	2 oz/a		PRE	A 107	50.600	11.490	60.500	44.940	10.900
	Touchdown Total	24 oz/a		MPOST	C 205	50.040	11.820	60.620	44.980	11.140
	AMS	17 lb/100 gal		MPOST	C 309	48.630	11.270	60.380	39.580	11.020
					Mean =	49.757	11.527	60.500	43.167	11.020
8	Sonic	3 oz/a		PRE	A 108	45.410	11.340	60.500	42.460	10.990
	Touchdown Total	24 oz/a		MPOST	C 201	49.540	11.950	60.380	46.450	11.410
	AMS	17 lb/100 gal		MPOST	C 303	48.180	11.890	60.260	42.320	11.170
					Mean =	47.710	11.727	60.380	43.743	11.190

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Description						Pioneer Soybean	Pioneer Soybean	Pioneer Soybean	Kruger Soybean	Kruger Soybean	
Rating Date						11-07-09	11-07-09	11-07-09	11-07-09	11-07-09	
Rating Type						Yield@13%	Moisture	Test weight	Yield@13%	Moisture	
Rating Unit						bu/A	%	lb/bu	bu/A	%	
Days After First/Last Applic.						129	129	129	129	129	
Trt-Eval Interval						162 DA-A	162 DA-A	162 DA-A	162 DA-A	162 DA-A	
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Plot	1	2	3	4	5
9	Cadet	0.5	oz/a	MPOST	C	109	41.250	11.270	58.590	35.650	10.990
	Touchdown Total	35	oz/a	MPOST	C	206	49.090	11.600	61.100	43.870	10.870
	AMS	17	lb/100 gal	MPOST	C	311	42.990	11.230	59.550	39.180	10.960
	NIS	0.25	% v/v	MPOST	C						
						Mean =	44.443	11.367	59.747	39.567	10.940
10	Cadet	0.7	oz/a	MPOST	C	110	40.620	11.240	59.070	38.620	11.000
	Touchdown Total	35	oz/a	MPOST	C	211	40.160	11.170	59.430	40.410	10.990
	AMS	17	lb/100 gal	MPOST	C	302	45.930	11.890	60.620	40.690	11.190
	NIS	0.25	% v/v	MPOST	C						
						Mean =	42.237	11.433	59.707	39.907	11.060
11	Cadet	0.9	oz/a	MPOST	C	111	41.260	11.240	58.830	44.140	10.980
	Touchdown Total	35	oz/a	MPOST	C	204	46.350	11.920	61.220	39.980	11.100
	AMS	17	lb/100 gal	MPOST	C	305	39.060	11.710	58.950	35.210	11.030
	NIS	0.25	% v/v	MPOST	C						
						Mean =	42.223	11.623	59.667	39.777	11.037
12	Touchdown Total	35	oz/a	MPOST	C	112	25.710	10.800		40.700	11.050
	AMS	17	lb/100 gal	MPOST	C	202	49.260	11.970	60.860	45.190	11.260
	NIS	0.25	% v/v	MPOST	C	307	43.730	11.380	60.030	37.630	10.910
						Mean =	39.567	11.383	60.445	41.173	11.073

Description						Kruger Soybean	soybean	soybean	soybean	soybean	Green foxtail	Green foxtail	Green foxtail	
Rating Date						11-07-09	06-30-09	07-06-09	07-16-09	07-29-09	06-30-09	07-08-09	07-16-09	
Rating Type						Test weight	Crop Injury	Necrosis	Necrosis	Necrosis	Control	Control	Control	
Rating Unit						lb/bu	%	%	%	%	%	%	%	
Days After First/Last Applic.						129	32	5	15	28	32	7	15	
Trt-Eval Interval						162 DA-A								
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Plot	6	7	8	9	10	11	12	13
1	Sonic	3 oz/a		PRE	A	101	61.100	0.0	0.0	0.0	0.0	50.0	99.0	99.0
	Durango DMA	24 oz/a		POST	C	207	59.910	0.0	0.0	0.0	0.0	50.0	99.0	99.0
	AMS	2 % v/v		POST	C	312	61.460	0.0	0.0	0.0	0.0	50.0	99.0	99.0
	Mean =						60.823	0.0	0.0	0.0	0.0	50.0	99.0	99.0
2	Sonic	4.5 oz/a		PRE	A	102	61.580	0.0	0.0	0.0	0.0	40.0	99.0	99.0
	Durango DMA	24 oz/a		POST	C	212	60.380	0.0	0.0	0.0	0.0	80.0	99.0	99.0
	AMS	2 % v/v		POST	C	308	61.580	0.0	0.0	0.0	0.0	50.0	99.0	99.0
	Mean =						61.180	0.0	0.0	0.0	0.0	56.7	99.0	99.0
3	Durango DMA	24 oz/a		POST	C	103	61.340		0.0	0.0	0.0		99.0	99.0
	Firstrate	0.3 oz/a		POST	C	210	61.930		5.0	0.0	0.0		99.0	99.0
	AMS	2 % v/v		POST	C	304	59.550		10.0	0.0	0.0		99.0	99.0
	Durango DMA	24 oz/a		LPOST										
	AMS	2 % v/v		LPOST										
	Mean =						60.940	.	5.0	0.0	0.0	.	99.0	99.0
4	Dual II Magnum	1 pt/a		PRE	A	104	61.820	0.0	15.0	10.0	5.0	80.0	99.0	99.0
	Flexstar GT	3 pt/a		POST	C	209	61.820	0.0	10.0	5.0	3.0	60.0	99.0	99.0
	NIS	0.25 % v/v		POST	C	306	60.500	0.0	12.0	8.0	4.0	90.0	99.0	99.0
	AMS	17 lb/100 gal		POST	C									
	Mean =						61.380	0.0	12.3	7.7	4.0	76.7	99.0	99.0
5	Touchdown Total	24 oz/a		EPOST		105	61.220		0.0	0.0	0.0		99.0	99.0
	AMS	17 lb/100 gal		EPOST		203	60.860		0.0	0.0	0.0		99.0	99.0
	Touchdown Total	24 oz/a		MPOST	C	310	61.340		0.0	0.0	0.0		99.0	99.0
	AMS	17 lb/100 gal		MPOST	C									
	Mean =						61.140	.	0.0	0.0	0.0	.	99.0	99.0
6	Prefix	2 pt/a		PRE	A	106	61.100	0.0	0.0	0.0	0.0	90.0	99.0	99.0
	Touchdown Total	24 oz/a		MPOST	C	208	61.460	0.0	0.0	0.0	0.0	95.0	99.0	99.0
	AMS	17 lb/100 gal		MPOST	C	301	60.030	0.0	0.0	5.0	0.0	95.0	99.0	99.0
	Mean =						60.863	0.0	0.0	1.7	0.0	93.3	99.0	99.0
7	Valor SX	2 oz/a		PRE	A	107	59.910	0.0	0.0	0.0	0.0	80.0	99.0	99.0
	Touchdown Total	24 oz/a		MPOST	C	205	60.980	0.0	0.0	0.0	0.0	80.0	99.0	99.0
	AMS	17 lb/100 gal		MPOST	C	309	58.350	0.0	0.0	0.0	0.0	90.0	99.0	99.0
	Mean =						59.747	0.0	0.0	0.0	0.0	83.3	99.0	99.0
8	Sonic	3 oz/a		PRE	A	108	58.590	0.0	0.0	0.0	0.0	70.0	99.0	99.0
	Touchdown Total	24 oz/a		MPOST	C	201	61.700	0.0	0.0	0.0	0.0	80.0	99.0	99.0
	AMS	17 lb/100 gal		MPOST	C	303	60.140	0.0	0.0	0.0	0.0	80.0	99.0	99.0
	Mean =						60.143	0.0	0.0	0.0	0.0	76.7	99.0	99.0

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Description						Kruger Soybean	soybean	soybean	soybean	soybean	Green foxtail	Green foxtail	Green foxtail	
Rating Date						11-07-09	06-30-09	07-06-09	07-16-09	07-29-09	06-30-09	07-08-09	07-16-09	
Rating Type						Test weight	Crop Injury	Necrosis	Necrosis	Necrosis	Control	Control	Control	
Rating Unit						lb/bu	%	%	%	%	%	%	%	
Days After First/Last Applic.						129	32	5	15	28	32	7	15	
Trt-Eval Interval						162 DA-A								
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Plot	6	7	8	9	10	11	12	13
9	Cadet	0.5	oz/a	MPOST	C	109	51.670		15.0	5.0	3.0		99.0	99.0
	Touchdown Total	35	oz/a	MPOST	C	206	61.100		10.0	5.0	4.0		99.0	99.0
	AMS	17	lb/100 gal	MPOST	C	311	57.160		20.0	8.0	6.0		99.0	99.0
	NIS	0.25	% v/v	MPOST	C									
						Mean =	56.643	.	15.0	6.0	4.3	.	99.0	99.0
10	Cadet	0.7	oz/a	MPOST	C	110	56.560		20.0	8.0	5.0		99.0	99.0
	Touchdown Total	35	oz/a	MPOST	C	211	58.830		15.0	15.0	8.0		99.0	99.0
	AMS	17	lb/100 gal	MPOST	C	302	58.710		15.0	10.0	6.0		99.0	99.0
	NIS	0.25	% v/v	MPOST	C									
						Mean =	58.033	.	16.7	11.0	6.3	.	99.0	99.0
11	Cadet	0.9	oz/a	MPOST	C	111	61.820		20.0	5.0	8.0		99.0	99.0
	Touchdown Total	35	oz/a	MPOST	C	204	58.710		20.0	10.0	15.0		99.0	99.0
	AMS	17	lb/100 gal	MPOST	C	305	52.030		20.0	15.0	15.0		99.0	99.0
	NIS	0.25	% v/v	MPOST	C									
						Mean =	57.520	.	20.0	10.0	12.7	.	99.0	99.0
12	Touchdown Total	35	oz/a	MPOST	C	112	59.550		0.0	0.0	0.0		99.0	99.0
	AMS	17	lb/100 gal	MPOST	C	202	60.980		0.0	0.0	0.0		99.0	99.0
	NIS	0.25	% v/v	MPOST	C	307	55.730		0.0	0.0	0.0		99.0	99.0
						Mean =	58.753	.	0.0	0.0	0.0	.	99.0	99.0

Description							Green foxtail	Green foxtail	Crabgrass	Crabgrass	Crabgrass	Crabgrass	Velvetleaf	Velvetleaf
Rating Date							07-16-09	07-29-09	07-08-09	07-16-09	07-16-09	07-29-09	06-30-09	07-08-09
Rating Type							Density	Control	Control	Control	Density	Control	Control	Control
Rating Unit							m2 RunCH	%	%	%	m2 RunCH	%	%	%
Days After First/Last Applic.							15	28	7	15	15	28	32	7
Trt-Eval Interval														
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Plot	14	15	16	17	18	19	20	21
1	Sonic	3 oz/a		PRE	A	101	10.0	99.0	99.0	99.0	1.0	99.0	90.0	99.0
	Durango DMA	24 oz/a		POST	C	207	10.0	99.0	99.0	99.0	1.0	99.0	90.0	99.0
	AMS	2 % v/v		POST	C	312	3.0	99.0	99.0	99.0	3.0	99.0	90.0	99.0
						Mean =	7.7	99.0	99.0	99.0	1.7	99.0	90.0	99.0
2	Sonic	4.5 oz/a		PRE	A	102	20.0	99.0	99.0	99.0	1.0	99.0	90.0	99.0
	Durango DMA	24 oz/a		POST	C	212	6.0	99.0	99.0	99.0	99.0	99.0	90.0	99.0
	AMS	2 % v/v		POST	C	308	6.0	99.0	99.0	99.0	1.0	99.0	90.0	99.0
						Mean =	10.7	99.0	99.0	99.0	1.0	99.0	90.0	99.0
3	Durango DMA	24 oz/a		POST	C	103	10.0	99.0	99.0	99.0	1.0	99.0		99.0
	Firstrate	0.3 oz/a		POST	C	210		99.0	99.0	99.0		99.0		99.0
	AMS	2 % v/v		POST	C	304	15.0	99.0	99.0	99.0	1.0	99.0		95.0
	Durango DMA	24 oz/a		LPOST										
	AMS	2 % v/v		LPOST										
						Mean =	12.5	99.0	99.0	99.0	1.0	99.0	.	97.7
4	Dual II Magnum	1 pt/a		PRE	A	104	10.0	99.0	99.0	99.0	2.0	99.0	0.0	99.0
	Flexstar GT	3 pt/a		POST	C	209	5.0	99.0	99.0	99.0	99.0	99.0	10.0	99.0
	NIS	0.25 % v/v		POST	C	306	5.0	99.0	99.0	99.0	3.0	99.0	5.0	99.0
	AMS	17 lb/100 gal		POST	C									
						Mean =	6.7	99.0	99.0	99.0	2.5	99.0	5.0	99.0
5	Touchdown Total	24 oz/a		EPOST		105		99.0	99.0	99.0		99.0		99.0
	AMS	17 lb/100 gal		EPOST		203	10.0	99.0	99.0	99.0	2.0	99.0		99.0
	Touchdown Total	24 oz/a		MPOST	C	310	3.0	99.0	99.0	99.0	1.0	99.0		99.0
	AMS	17 lb/100 gal		MPOST	C									
						Mean =	6.5	99.0	99.0	99.0	1.5	99.0	.	99.0
6	Prefix	2 pt/a		PRE	A	106	10.0	99.0	99.0	99.0	6.0	99.0	50.0	99.0
	Touchdown Total	24 oz/a		MPOST	C	208	6.0	99.0	99.0	99.0	99.0	99.0	90.0	99.0
	AMS	17 lb/100 gal		MPOST	C	301	8.0	99.0	99.0	99.0	3.0	99.0	35.0	99.0
						Mean =	8.0	99.0	99.0	99.0	4.5	99.0	58.3	99.0
7	Valor SX	2 oz/a		PRE	A	107	8.0	99.0	99.0	99.0	2.0	99.0	90.0	99.0
	Touchdown Total	24 oz/a		MPOST	C	205	10.0	99.0	99.0	99.0	1.0	99.0	95.0	99.0
	AMS	17 lb/100 gal		MPOST	C	309		99.0	99.0	99.0		99.0	90.0	99.0
						Mean =	9.0	99.0	99.0	99.0	1.5	99.0	91.7	99.0
8	Sonic	3 oz/a		PRE	A	108	15.0	99.0	99.0	99.0		99.0	90.0	99.0
	Touchdown Total	24 oz/a		MPOST	C	201	10.0	99.0	99.0	99.0	1.0	99.0	95.0	99.0
	AMS	17 lb/100 gal		MPOST	C	303	15.0	99.0	99.0	99.0	1.0	99.0	95.0	99.0
						Mean =	13.3	99.0	99.0	99.0	1.0	99.0	93.3	99.0

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Description						Green foxtail	Green foxtail	Crabgrass	Crabgrass	Crabgrass	Crabgrass	Velvetleaf	Velvetleaf	
Rating Date						07-16-09	07-29-09	07-08-09	07-16-09	07-16-09	07-29-09	06-30-09	07-08-09	
Rating Type						Density	Control	Control	Control	Density	Control	Control	Control	
Rating Unit						m2 RunCH	%	%	%	m2 RunCH	%	%	%	
Days After First/Last Applic.						15	28	7	15	15	28	32	7	
Trt-Eval Interval														
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Plot	14	15	16	17	18	19	20	21
9	Cadet	0.5	oz/a	MPOST	C	109		99.0	99.0	99.0		99.0		99.0
	Touchdown Total	35	oz/a	MPOST	C	206	10.0	99.0	99.0	99.0	1.0	99.0		99.0
	AMS	17	lb/100 gal	MPOST	C	311	3.0	99.0	99.0	99.0		99.0		99.0
	NIS	0.25	% v/v	MPOST	C									
						Mean =	6.5	99.0	99.0	99.0	1.0	99.0		99.0
10	Cadet	0.7	oz/a	MPOST	C	110		99.0	99.0	99.0		99.0		99.0
	Touchdown Total	35	oz/a	MPOST	C	211		99.0	99.0	99.0		99.0		99.0
	AMS	17	lb/100 gal	MPOST	C	302	8.0	99.0	99.0	99.0	1.0	99.0		99.0
	NIS	0.25	% v/v	MPOST	C									
						Mean =	8.0	99.0	99.0	99.0	1.0	99.0		99.0
11	Cadet	0.9	oz/a	MPOST	C	111	8.0	99.0	99.0	99.0	1.0	99.0		99.0
	Touchdown Total	35	oz/a	MPOST	C	204	15.0	98.0	99.0	99.0	1.0	99.0		99.0
	AMS	17	lb/100 gal	MPOST	C	305	5.0	99.0	99.0	99.0		99.0		99.0
	NIS	0.25	% v/v	MPOST	C									
						Mean =	9.3	98.7	99.0	99.0	1.0	99.0		99.0
12	Touchdown Total	35	oz/a	MPOST	C	112	5.0	99.0	99.0	99.0	2.0	99.0		99.0
	AMS	17	lb/100 gal	MPOST	C	202	10.0	99.0	99.0	99.0	2.0	99.0		99.0
	NIS	0.25	% v/v	MPOST	C	307	5.0	99.0	99.0	99.0	3.0	99.0		99.0
						Mean =	6.7	99.0	99.0	99.0	2.3	99.0		99.0

Description						Velvetleaf	Velvetleaf	Velvetleaf	Waterhemp	Waterhemp	Waterhemp	Waterhemp	Waterhemp	
Rating Date						07-16-09	07-16-09	07-29-09	06-30-09	07-08-09	07-16-09	07-16-09	07-29-09	
Rating Type						Control	Density	Control	Control	Control	Control	Density	Control	
Rating Unit						%	m2 RunCH	%	%	%	%	m2 RunCH	%	
Days After First/Last Applic.						15	15	28	32	7	15	15	28	
Trt-Eval Interval														
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Plot	22	23	24	25	26	27	28	29
1	Sonic	3 oz/a		PRE	A	101	99.0	1.0	99.0	90.0	99.0	99.0	6.0	99.0
	Durango DMA	24 oz/a		POST	C	207	99.0	1.0	99.0	95.0	99.0	99.0	2.0	99.0
	AMS	2 % v/v		POST	C	312	99.0	1.0	99.0		99.0	99.0	2.0	99.0
						Mean =	99.0	1.0	99.0	92.5	99.0	99.0	3.3	99.0
2	Sonic	4.5 oz/a		PRE	A	102	99.0	1.0	99.0	90.0	99.0	99.0	3.0	99.0
	Durango DMA	24 oz/a		POST	C	212	99.0	1.0	99.0	95.0	99.0	99.0	2.0	99.0
	AMS	2 % v/v		POST	C	308	99.0	1.0	99.0	95.0	99.0	99.0	2.0	99.0
						Mean =	99.0	1.0	99.0	93.3	99.0	99.0	2.3	99.0
3	Durango DMA	24 oz/a		POST	C	103	99.0	1.0	99.0		99.0	99.0	2.0	99.0
	Firstrate	0.3 oz/a		POST	C	210	99.0		99.0		99.0	99.0		99.0
	AMS	2 % v/v		POST	C	304	99.0	1.0	99.0		99.0	99.0	5.0	99.0
	Durango DMA	24 oz/a		LPOST										
	AMS	2 % v/v		LPOST										
						Mean =	99.0	1.0	99.0	.	99.0	99.0	3.5	99.0
4	Dual II Magnum	1 pt/a		PRE	A	104	99.0	1.0	99.0	60.0	99.0	99.0	8.0	99.0
	Flexstar GT	3 pt/a		POST	C	209	99.0	1.0	99.0	85.0	99.0	99.0	1.0	99.0
	NIS	0.25 % v/v		POST	C	306	99.0	2.0	99.0	95.0	99.0	99.0	5.0	99.0
	AMS	17 lb/100 gal		POST	C									
						Mean =	99.0	1.3	99.0	80.0	99.0	99.0	4.7	99.0
5	Touchdown Total	24 oz/a		EPOST		105	99.0		99.0		99.0	99.0		99.0
	AMS	17 lb/100 gal		EPOST		203	99.0	1.0	99.0		99.0	99.0	3.0	99.0
	Touchdown Total	24 oz/a		MPOST	C	310	99.0	1.0	99.0		99.0	99.0	1.0	99.0
	AMS	17 lb/100 gal		MPOST	C									
						Mean =	99.0	1.0	99.0	.	99.0	99.0	2.0	99.0
6	Prefix	2 pt/a		PRE	A	106	99.0	1.0	99.0	95.0	99.0	99.0	6.0	99.0
	Touchdown Total	24 oz/a		MPOST	C	208	99.0	1.0	99.0	95.0	99.0	99.0	3.0	99.0
	AMS	17 lb/100 gal		MPOST	C	301	99.0	6.0	99.0	95.0	99.0	99.0	5.0	99.0
						Mean =	99.0	2.7	99.0	95.0	99.0	99.0	4.7	99.0
7	Valor SX	2 oz/a		PRE	A	107	99.0	1.0	99.0	90.0	99.0	99.0	2.0	99.0
	Touchdown Total	24 oz/a		MPOST	C	205	99.0	1.0	99.0	95.0	99.0	99.0	3.0	99.0
	AMS	17 lb/100 gal		MPOST	C	309	99.0		99.0	99.0	99.0	99.0		99.0
						Mean =	99.0	1.0	99.0	94.7	99.0	99.0	2.5	99.0
8	Sonic	3 oz/a		PRE	A	108	99.0	2.0	99.0	95.0	99.0	99.0	1.0	99.0
	Touchdown Total	24 oz/a		MPOST	C	201	99.0	1.0	99.0	95.0	99.0	99.0	5.0	99.0
	AMS	17 lb/100 gal		MPOST	C	303	99.0	1.0	99.0	95.0	99.0	99.0	3.0	99.0
						Mean =	99.0	1.3	99.0	95.0	99.0	99.0	3.0	99.0

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Description						Velvetleaf	Velvetleaf	Velvetleaf	Waterhemp	Waterhemp	Waterhemp	Waterhemp	Waterhemp	
Rating Date						07-16-09	07-16-09	07-29-09	06-30-09	07-08-09	07-16-09	07-16-09	07-29-09	
Rating Type						Control	Density	Control	Control	Control	Control	Density	Control	
Rating Unit						%	m2 RunCH	%	%	%	%	m2 RunCH	%	
Days After First/Last Applic.						15	15	28	32	7	15	15	28	
Trt-Eval Interval														
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Plot	22	23	24	25	26	27	28	29
9	Cadet	0.5	oz/a	MPOST	C	109	99.0		99.0		99.0	99.0		99.0
	Touchdown Total	35	oz/a	MPOST	C	206	99.0	1.0	99.0		99.0	99.0	6.0	99.0
	AMS	17	lb/100 gal	MPOST	C	311	99.0	1.0	99.0		99.0	99.0	2.0	99.0
	NIS	0.25	% v/v	MPOST	C									
						Mean =	99.0	1.0	99.0		99.0	99.0	4.0	99.0
10	Cadet	0.7	oz/a	MPOST	C	110	99.0	1.0	99.0		99.0	99.0		99.0
	Touchdown Total	35	oz/a	MPOST	C	211	99.0		99.0		99.0	99.0		99.0
	AMS	17	lb/100 gal	MPOST	C	302	99.0	1.0	99.0		99.0	99.0	10.0	99.0
	NIS	0.25	% v/v	MPOST	C									
						Mean =	99.0	1.0	99.0		99.0	99.0	10.0	99.0
11	Cadet	0.9	oz/a	MPOST	C	111	99.0	1.0	99.0		99.0	99.0	1.0	99.0
	Touchdown Total	35	oz/a	MPOST	C	204	99.0	1.0	99.0		99.0	99.0	5.0	99.0
	AMS	17	lb/100 gal	MPOST	C	305	99.0	1.0	99.0		99.0	99.0	1.0	99.0
	NIS	0.25	% v/v	MPOST	C									
						Mean =	99.0	1.0	99.0		99.0	99.0	2.3	99.0
12	Touchdown Total	35	oz/a	MPOST	C	112	99.0	1.0	99.0		99.0	99.0	1.0	99.0
	AMS	17	lb/100 gal	MPOST	C	202	99.0	1.0	99.0		99.0	99.0	6.0	99.0
	NIS	0.25	% v/v	MPOST	C	307	99.0	2.0	99.0		99.0	99.0	5.0	99.0
						Mean =	99.0	1.3	99.0		99.0	99.0	4.0	99.0



Description							P.Spurge	P.Spurge	P.Spurge	P.Spurge	Venice Mallow	Venice Mallow	Venice Mallow
Rating Date							07-08-09	07-16-09	07-16-09	07-29-09	07-08-09	07-16-09	07-16-09
Rating Type							Control	Control	Density	Control	Control	Control	Density
Rating Unit							%	%	m2 RunCH	%	%	%	m2 RunCH
Days After First/Last Applic.							7	15	15	28	7	15	15
Trt-Eval Interval													
Trt	Treatment	Rate	Unit	Growth	Appl	Plot	30	31	32	33	34	35	36
No.	Name	Rate	Unit	Stage	Code	Plot							
1	Sonic	3 oz/a		PRE	A	101	99.0	99.0	6.0	99.0	99.0	99.0	6.0
	Durango DMA	24 oz/a		POST	C	207	99.0	99.0	15.0	99.0	99.0	99.0	6.0
	AMS	2 % v/v		POST	C	312	99.0	99.0	15.0	99.0	97.0	99.0	10.0
						Mean =	99.0	99.0	12.0	99.0	98.3	99.0	7.3
2	Sonic	4.5 oz/a		PRE	A	102	99.0	99.0	5.0	99.0	99.0	99.0	2.0
	Durango DMA	24 oz/a		POST	C	212	99.0	99.0	6.0	99.0	99.0	99.0	2.0
	AMS	2 % v/v		POST	C	308	99.0	99.0	10.0	99.0	99.0	99.0	15.0
						Mean =	99.0	99.0	7.0	99.0	99.0	99.0	6.3
3	Durango DMA	24 oz/a		POST	C	103	99.0	99.0	5.0	99.0	99.0	99.0	6.0
	Firstrate	0.3 oz/a		POST	C	210	95.0	99.0		99.0	85.0	99.0	
	AMS	2 % v/v		POST	C	304	90.0	99.0	10.0	99.0	90.0	99.0	2.0
	Durango DMA	24 oz/a		LPOST									
	AMS	2 % v/v		LPOST									
						Mean =	94.7	99.0	7.5	99.0	91.3	99.0	4.0
4	Dual II Magnum	1 pt/a		PRE	A	104	99.0	99.0	4.0	99.0	99.0	99.0	5.0
	Flexstar GT	3 pt/a		POST	C	209	99.0	99.0	10.0	99.0	99.0	99.0	10.0
	NIS	0.25 % v/v		POST	C	306	99.0	99.0	30.0	99.0	99.0	99.0	20.0
	AMS	17 lb/100 gal		POST	C								
						Mean =	99.0	99.0	14.7	99.0	99.0	99.0	11.7
5	Touchdown Total	24 oz/a		EPOST		105	90.0	99.0		99.0	95.0	99.0	
	AMS	17 lb/100 gal		EPOST		203	90.0	99.0	10.0	99.0	85.0	99.0	6.0
	Touchdown Total	24 oz/a		MPOST	C	310	99.0	99.0	10.0	99.0	99.0	99.0	1.0
	AMS	17 lb/100 gal		MPOST	C								
						Mean =	93.0	99.0	10.0	99.0	93.0	99.0	3.5
6	Prefix	2 pt/a		PRE	A	106	99.0	99.0	5.0	99.0	80.0	99.0	3.0
	Touchdown Total	24 oz/a		MPOST	C	208	99.0	99.0	10.0	99.0	99.0	99.0	8.0
	AMS	17 lb/100 gal		MPOST	C	301	99.0	99.0	10.0	99.0	99.0	99.0	25.0
						Mean =	99.0	99.0	8.3	99.0	92.7	99.0	12.0
7	Valor SX	2 oz/a		PRE	A	107	99.0	99.0	10.0	99.0	99.0	99.0	6.0
	Touchdown Total	24 oz/a		MPOST	C	205	99.0	99.0	10.0	99.0	99.0	99.0	2.0
	AMS	17 lb/100 gal		MPOST	C	309	99.0	99.0		99.0	99.0	99.0	
						Mean =	99.0	99.0	10.0	99.0	99.0	99.0	4.0
8	Sonic	3 oz/a		PRE	A	108	99.0	99.0	10.0	99.0	99.0	99.0	1.0
	Touchdown Total	24 oz/a		MPOST	C	201	99.0	99.0	6.0	99.0	99.0	99.0	1.0
	AMS	17 lb/100 gal		MPOST	C	303	99.0	99.0	20.0	99.0	99.0	99.0	1.0
						Mean =	99.0	99.0	12.0	99.0	99.0	99.0	1.0

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Description						P.Spurge	P.Spurge	P.Spurge	P.Spurge	Venice Mallow	Venice Mallow	Venice Mallow
Rating Date						07-08-09	07-16-09	07-16-09	07-29-09	07-08-09	07-16-09	07-16-09
Rating Type						Control	Control	Density	Control	Control	Control	Density
Rating Unit						%	%	m2 RunCH	%	%	%	m2 RunCH
Days After First/Last Applic.						7	15	15	28	7	15	15
Trt-Eval Interval												
Trt	Treatment	Rate	Growth	Appl								
No.	Name	Rate Unit	Stage	Code	Plot	30	31	32	33	34	35	36
9	Cadet	0.5 oz/a	MPOST	C	109	99.0	99.0		99.0	99.0	99.0	
	Touchdown Total	35 oz/a	MPOST	C	206	99.0	99.0	25.0	99.0	99.0	99.0	2.0
	AMS	17 lb/100 gal	MPOST	C	311	99.0	99.0	10.0	99.0	99.0	99.0	6.0
	NIS	0.25 % v/v	MPOST	C								
					Mean =	99.0	99.0	17.5	99.0	99.0	99.0	4.0
10	Cadet	0.7 oz/a	MPOST	C	110	99.0	99.0		99.0	99.0	99.0	10.0
	Touchdown Total	35 oz/a	MPOST	C	211	99.0	99.0		99.0	99.0	99.0	
	AMS	17 lb/100 gal	MPOST	C	302	99.0	99.0	10.0	99.0	99.0	99.0	3.0
	NIS	0.25 % v/v	MPOST	C								
					Mean =	99.0	99.0	10.0	99.0	99.0	99.0	6.5
11	Cadet	0.9 oz/a	MPOST	C	111	99.0	99.0	15.0	99.0	99.0	99.0	6.0
	Touchdown Total	35 oz/a	MPOST	C	204	99.0	99.0	10.0	99.0	99.0	99.0	4.0
	AMS	17 lb/100 gal	MPOST	C	305	99.0	99.0	6.0	99.0	99.0	99.0	15.0
	NIS	0.25 % v/v	MPOST	C								
					Mean =	99.0	99.0	10.3	99.0	99.0	99.0	8.3
12	Touchdown Total	35 oz/a	MPOST	C	112	95.0	99.0	8.0	99.0	85.0	99.0	3.0
	AMS	17 lb/100 gal	MPOST	C	202	90.0	99.0	8.0	99.0	90.0	99.0	2.0
	NIS	0.25 % v/v	MPOST	C	307	80.0	99.0	30.0	99.0	90.0	99.0	20.0
					Mean =	88.3	99.0	15.3	99.0	88.3	99.0	8.3

Description							Venice Mallow
Rating Date							07-29-09
Rating Type							Control
Rating Unit							%
Days After First/Last Applic.							28
Trt-Eval Interval							
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Plot	
						37	
1	Sonic	3	oz/a	PRE	A	101	99.0
	Durango DMA	24	oz/a	POST	C	207	99.0
	AMS	2	% v/v	POST	C	312	99.0
						Mean =	99.0
2	Sonic	4.5	oz/a	PRE	A	102	99.0
	Durango DMA	24	oz/a	POST	C	212	99.0
	AMS	2	% v/v	POST	C	308	99.0
						Mean =	99.0
3	Durango DMA	24	oz/a	POST	C	103	99.0
	Firstrate	0.3	oz/a	POST	C	210	99.0
	AMS	2	% v/v	POST	C	304	99.0
	Durango DMA	24	oz/a	LPOST			
	AMS	2	% v/v	LPOST			
						Mean =	99.0
4	Dual II Magnum	1	pt/a	PRE	A	104	99.0
	Flexstar GT	3	pt/a	POST	C	209	99.0
	NIS	0.25	% v/v	POST	C	306	99.0
	AMS	17	lb/100 gal	POST	C		
						Mean =	99.0
5	Touchdown Total	24	oz/a	EPOST		105	99.0
	AMS	17	lb/100 gal	EPOST		203	99.0
	Touchdown Total	24	oz/a	MPOST	C	310	99.0
	AMS	17	lb/100 gal	MPOST	C		
						Mean =	99.0
6	Prefix	2	pt/a	PRE	A	106	99.0
	Touchdown Total	24	oz/a	MPOST	C	208	99.0
	AMS	17	lb/100 gal	MPOST	C	301	99.0
						Mean =	99.0
7	Valor SX	2	oz/a	PRE	A	107	99.0
	Touchdown Total	24	oz/a	MPOST	C	205	99.0
	AMS	17	lb/100 gal	MPOST	C	309	99.0
						Mean =	99.0
8	Sonic	3	oz/a	PRE	A	108	99.0
	Touchdown Total	24	oz/a	MPOST	C	201	99.0
	AMS	17	lb/100 gal	MPOST	C	303	99.0
						Mean =	99.0

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Description						Venice Mallow
Rating Date						07-29-09
Rating Type						Control
Rating Unit						%
Days After First/Last Applic.						28
Trt-Eval Interval						
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Plot
						37
9	Cadet	0.5	oz/a	MPOST	C	109
	Touchdown Total	35	oz/a	MPOST	C	206
	AMS	17	lb/100 gal	MPOST	C	311
	NIS	0.25	% v/v	MPOST	C	
						Mean = 99.0
10	Cadet	0.7	oz/a	MPOST	C	110
	Touchdown Total	35	oz/a	MPOST	C	211
	AMS	17	lb/100 gal	MPOST	C	302
	NIS	0.25	% v/v	MPOST	C	
						Mean = 99.0
11	Cadet	0.9	oz/a	MPOST	C	111
	Touchdown Total	35	oz/a	MPOST	C	204
	AMS	17	lb/100 gal	MPOST	C	305
	NIS	0.25	% v/v	MPOST	C	
						Mean = 99.0
12	Touchdown Total	35	oz/a	MPOST	C	112
	AMS	17	lb/100 gal	MPOST	C	202
	NIS	0.25	% v/v	MPOST	C	307
						Mean = 99.0

Northeast Research & Extension Center

2009 Annual Weed control in Soybean

Trial ID: 09 SRR-6 SB Pre Post Program      Protocol ID: 09 SRR Weed Control  
Location: Concord, NE      Study Director:  
Project ID:      Investigator: Stevan Knezevic  
Sponsor Contact:

Rating Unit

% = percent