

Northeast Research & Extension Center

2009 Glyphosate combination comparisons with difficult to control weeds using Cadet and Ultra Blazer

Trial ID: 09 SRR-8 KFD Cadet	Protocol ID: 09 SRR-8 KFD Cadet
Location: Concord, NE	Study Director:
Project ID: GLYP 06 US NE 09 01PWR	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

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: EPHHT *Euphorbia humistrata*
 Common Name: Prostrate spurge

Site and Design

Plot Width, Unit: 10 FT Site Type: FIELD field

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Plot Length, Unit: 30 FT

Plot Area, Unit: 300 FT2 Tillage Type: NOTILL no-till

Replications: 3 Study Design: RACOBL 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
Application Date:	07-01-09
Time of Day:	12:00 pm
Application Method:	spray
Application Timing:	POST
Application Placement:	Foliar
Applied By:	js
Air Temperature, Unit:	81 F
% Relative Humidity:	38
Wind Velocity, Unit:	3 mph
Wind Direction:	S
Dew Presence (Y/N):	N no
Soil Moisture:	adequate
% Cloud Cover:	30

Crop Stage At Each Application

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

Pest Stage At Each Application

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

Application Equipment

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

No. Date By Deviations

1.07-01-09 js Data for plots 302 and 303 missing

Reasons: Plot 302 was sprayed twice with treatments 3 and 8. Plot 303 was not sprayed.

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Trial ID: 09 SRR-8 KFD Cadet Protocol ID: 09 SRR-8 KFD Cadet
 Location: Concord, NE Study Director:
 Project ID: GLYP 06 US NE 09 01PWR Investigator: Stevan Knezevic
 Sponsor Contact:

Description							Kruger SB	Kruger SB	Pioneer SB	Pioneer SB	Soybean	Soybean	Soybean	
Rating Date							11-07-09	11-07-09	11-07-09	11-07-09	07-06-09	07-06-09	07-21-09	
Rating Type							Yield@13.0%	Moisture	Yield@13.0%	Moisture	Necrosis	Stunting	Crop Injury	
Rating Unit							bu/A	%	bu/A	%	Percent	Percent	Percent	
Days After First/Last Applic.							129 129	129 129	129 129	129 129	5 5	5 5	20 20	
Trt-Eval Interval							129 DA-A	129 DA-A	129 DA-A	129 DA-A	38 DA-A	38 DA-A	20 DA-A	
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	1	2	3	4	5	6	7
1	Nontreated Check							35.983 f	11.140 a	32.977 e	11.380 a	0.0 f	0.0 d	0.0 f
2	KFD 51-01 AMS	0.75	lb ae/a	32	oz/a	POST	A	47.640 abc	11.087 a	52.703 ab	11.770 a	0.0 f	0.0 d	0.0 f
		1	% ai/v	8.34	lb/100 gal	POST	A							
3	KFD 51-01 AMS	1.00	lb ae/a	42.6	oz/a	POST	A	50.195 a	11.190 a	53.770 ab	11.805 a	0.0 f	0.0 d	0.0 f
		1	% ai/v	8.34	lb/100 gal	POST	A							
4	KFD 51-01 AMS	0.75	lb ae/a	32	oz/a	POST	A	46.163 a-e	11.133 a	46.193 a-d	11.510 a	10.0 cd	1.7 cd	6.3 de
		1	% ai/v	8.34	lb/100 gal	POST	A							
	Ultra Blazer	4	oz/a			POST	A							
5	KFD 51-01 AMS	1.00	lb ae/a	42.6	oz/a	POST	A	44.373 a-e	11.003 a	48.537 a-d	11.633 a	14.0 bc	11.0 abc	11.0 bcd
		1	% ai/v	8.34	lb/100 gal	POST	A							
	Ultra Blazer	4	oz/a			POST	A							
6	KFD 51-01 AMS	0.75	lb ae/a	32	oz/a	POST	A	48.940 ab	11.190 a	56.533 a	11.877 a	15.0 b	6.7 bcd	9.0 cde
		1	% ai/v	8.34	lb/100 gal	POST	A							
	Ultra Blazer	8	oz/a			POST	A							
7	KFD 51-01 AMS	1.00	lb ae/a	42.6	oz/a	POST	A	45.967 a-e	11.107 a	51.983 abc	11.730 a	17.7 b	15.0 ab	15.7 ab
		1	% ai/v	8.34	lb/100 gal	POST	A							
	Ultra Blazer	8	oz/a			POST	A							
8	KFD 51-01 AMS	0.75	lb ae/a	32	oz/a	POST	A	43.410 b-e	11.120 a	48.750 a-d	11.405 a	17.5 b	14.0 ab	13.0 bc
		1	% ai/v	8.34	lb/100 gal	POST	A							
	Ultra Blazer	12	oz/a			POST	A							
9	KFD 51-01 AMS	1.00	lb ae/a	42.6	oz/a	POST	A	47.370 a-d	11.223 a	53.407 ab	11.907 a	18.3 ab	20.0 a	15.0 bc
		1	% ai/v	8.34	lb/100 gal	POST	A							
	Ultra Blazer	12	oz/a			POST	A							
10	KFD 51-01 AMS	0.75	lb ae/a	32	oz/a	POST	A	44.280 a-e	11.147 a	53.227 ab	11.730 a	18.3 ab	20.0 a	16.7 ab
		1	% ai/v	8.34	lb/100 gal	POST	A							
	Ultra Blazer	16	oz/a			POST	A							
11	KFD 51-01 AMS	1.00	lb ae/a	42.6	oz/a	POST	A	40.367 ef	11.130 a	41.457 cde	11.283 a	22.7 a	20.0 a	21.7 a
		1	% ai/v	8.34	lb/100 gal	POST	A							
	Ultra Blazer	16	oz/a			POST	A							
12	Credit Extra AMS	0.75	lb ae/a	32	oz/a	POST	A	41.707 c-f	11.247 a	39.393 de	11.283 a	3.0 f	0.0 d	4.7 ef
		1	% ai/v	8.34	lb/100 gal	POST	A							
	Cadet	0.5	oz/a			POST	A							
13	Credit Extra AMS	0.75	lb ae/a	32	oz/a	POST	A	41.425 def	11.010 a	44.667 bcd	11.290 a	4.3 ef	0.0 d	6.7 de
		1	% ai/v	8.34	lb/100 gal	POST	A							
	Cadet	0.7	oz/a			POST	A							
14	Credit Extra AMS	0.75	lb ae/a	32	oz/a	POST	A	47.137 a-d	11.313 a	50.327 abc	11.747 a	9.0 de	6.7 bcd	14.3 bc
		1	% ai/v	8.34	lb/100 gal	POST	A							
	Cadet	0.9	oz/a			POST	A							
LSD (P=.05)							6.0524	0.4569	10.6931	0.6829	4.74	9.86	6.01	
Standard Deviation							3.5827	0.2705	6.3451	0.4052	2.81	5.85	3.57	
CV							8.03	2.43	13.18	3.49	26.3	71.2	37.29	
Grand Mean							44.64	11.15	48.14	11.6	10.7	8.21	9.57	
Bartlett's X2							15.199	7.423	33.277	24.504	10.918	6.577	13.434	
P(Bartlett's X2)							0.295	0.879	0.002*	0.027*	0.206	0.583	0.144	
Replicate F							1.742	0.101	3.445	1.363	4.149	1.710	0.510	
Replicate Prob(F)							0.1975	0.9045	0.0484	0.2750	0.0283	0.2022	0.6066	
Treatment F							3.415	0.294	3.231	0.969	24.197	5.997	11.195	
Treatment Prob(F)							0.0049	0.9871	0.0063	0.5064	0.0001	0.0001	0.0001	

Description							Soybean	Green foxtail	Green foxtail	Green foxtail	Green foxtail	crabgrass	
Rating Date							07-29-09	07-08-09	07-21-09	07-21-09	07-29-09	07-08-09	
Rating Type							Crop Injury	Control	Control	Density	Control	Control	
Rating Unit							Percent	Percent	Percent	m2 RunCH	Percent	Percent	
Days After First/Last Applic.							28 28	7 7	20 20	20 20	28 28	7 7	
Trt-Eval Interval							28 DA-A	7 DA-A	20 DA-A	20 DA-A	28 DA-A	7 DA-A	
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	8	9	10	11	12	13
1	Nontreated Check							0.0 e	0.0 b	0.0 b	0.0 a	0.0 b	0.0 b
2	KFD 51-01 AMS	0.75 1	lb ae/a % ai/v	32 8.34	oz/a lb/100 gal	POST POST	A A	0.0 e	99.0 a	99.0 a	14.3 a	99.0 a	99.0 a
3	KFD 51-01 AMS	1.00 1	lb ae/a % ai/v	42.6 8.34	oz/a lb/100 gal	POST POST	A A	0.0 e	99.0 a	99.0 a	6.0 a	99.0 a	99.0 a
4	KFD 51-01 AMS Ultra Blazer	0.75 1 4	lb ae/a % ai/v oz/a	32 8.34	oz/a lb/100 gal	POST POST POST	A A A	2.0 de	99.0 a	99.0 a	17.0 a	99.0 a	99.0 a
5	KFD 51-01 AMS Ultra Blazer	1.00 1 4	lb ae/a % ai/v oz/a	42.6 8.34	oz/a lb/100 gal	POST POST POST	A A A	5.0 cd	99.0 a	99.0 a	13.3 a	99.0 a	99.0 a
6	KFD 51-01 AMS Ultra Blazer	0.75 1 8	lb ae/a % ai/v oz/a	32 8.34	oz/a lb/100 gal	POST POST POST	A A A	5.3 cd	99.0 a	99.0 a	13.3 a	99.0 a	99.0 a
7	KFD 51-01 AMS Ultra Blazer	1.00 1 8	lb ae/a % ai/v oz/a	42.6 8.34	oz/a lb/100 gal	POST POST POST	A A A	11.0 b	99.0 a	99.0 a	13.7 a	99.0 a	99.0 a
8	KFD 51-01 AMS Ultra Blazer	0.75 1 12	lb ae/a % ai/v oz/a	32 8.34	oz/a lb/100 gal	POST POST POST	A A A	7.5 bc	99.0 a	99.0 a	8.0 a	99.0 a	99.0 a
9	KFD 51-01 AMS Ultra Blazer	1.00 1 12	lb ae/a % ai/v oz/a	42.6 8.34	oz/a lb/100 gal	POST POST POST	A A A	10.7 b	99.0 a	99.0 a	20.0 a	99.0 a	99.0 a
10	KFD 51-01 AMS Ultra Blazer	0.75 1 16	lb ae/a % ai/v oz/a	32 8.34	oz/a lb/100 gal	POST POST POST	A A A	9.3 b	99.0 a	99.0 a	12.7 a	99.0 a	99.0 a
11	KFD 51-01 AMS Ultra Blazer	1.00 1 16	lb ae/a % ai/v oz/a	42.6 8.34	oz/a lb/100 gal	POST POST POST	A A A	15.7 a	99.0 a	99.0 a	8.0 a	99.0 a	99.0 a
12	Credit Extra AMS Cadet	0.75 1 0.5	lb ae/a % ai/v oz/a	32 8.34	oz/a lb/100 gal	POST POST POST	A A A	2.3 de	99.0 a	99.0 a	8.0 a	99.0 a	99.0 a
13	Credit Extra AMS Cadet	0.75 1 0.7	lb ae/a % ai/v oz/a	32 8.34	oz/a lb/100 gal	POST POST POST	A A A	5.3 cd	99.0 a	99.0 a	6.5 a	99.0 a	99.0 a
14	Credit Extra AMS Cadet	0.75 1 0.9	lb ae/a % ai/v oz/a	32 8.34	oz/a lb/100 gal	POST POST POST	A A A	8.0 bc	99.0 a	99.0 a	25.0 a	99.0 a	99.0 a
LSD (P=.05)							3.65	0.00	0.00	12.68	0.00	0.00	
Standard Deviation							2.16	0.00	0.00	7.39	0.00	0.00	
CV							36.88	0.0	0.0	62.38	0.0	0.0	
Grand Mean							5.87	91.93	91.93	11.85	91.93	91.93	
Bartlett's X2							11.895	0.0	0.0	6.046	0.0	0.0	
P(Bartlett's X2)							0.219	.	.	0.811	.	.	
Replicate F							0.009	0.000	0.000	0.156	0.000	0.000	
Replicate Prob(F)							0.9911	1.0000	1.0000	0.8569	1.0000	1.0000	
Treatment F							14.616	0.000	0.000	2.232	0.000	0.000	
Treatment Prob(F)							0.0001	1.0000	1.0000	0.0576	1.0000	1.0000	

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Description							crabgrass	crabgrass	crabgrass	Venice mallow	Venice mallow	Venice mallow	
Rating Date							07-21-09	07-21-09	07-29-09	07-08-09	07-21-09	07-21-09	
Rating Type							Control	Density	Control	Control	Control	Density	
Rating Unit							Percent	m2 RunCH	Percent	Percent	Percent	m2 RunCH	
Days After First/Last Applic.							20 20	20 20	28 28	7 7	20 20	20 20	
Trt-Eval Interval							20 DA-A	20 DA-A	28 DA-A	7 DA-A	20 DA-A	20 DA-A	
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code						
								14	15	16	17	18	19
1	Nontreated Check							0.0 b	0.0 a	0.0 b	0.0 d	0.0 c	0.0 f
2	KFD 51-01 AMS	0.75 1	lb ae/a % ai/v	32 8.34	oz/a lb/100 gal	POST POST	A A	99.0 a	2.0 a	99.0 a	91.7 c	99.0 a	4.7 c-f
3	KFD 51-01 AMS	1.00 1	lb ae/a % ai/v	42.6 8.34	oz/a lb/100 gal	POST POST	A A	99.0 a	1.0 a	99.0 a	99.0 a	99.0 a	3.0 def
4	KFD 51-01 AMS Ultra Blazer	0.75 1 4	lb ae/a % ai/v oz/a	32 8.34	oz/a lb/100 gal	POST POST POST	A A A	99.0 a	6.5 a	99.0 a	96.7 a	99.0 a	2.5 def
5	KFD 51-01 AMS Ultra Blazer	1.00 1 4	lb ae/a % ai/v oz/a	42.6 8.34	oz/a lb/100 gal	POST POST POST	A A A	99.0 a	4.0 a	99.0 a	96.0 ab	99.0 a	5.0 b-e
6	KFD 51-01 AMS Ultra Blazer	0.75 1 8	lb ae/a % ai/v oz/a	32 8.34	oz/a lb/100 gal	POST POST POST	A A A	99.0 a	6.3 a	99.0 a	99.0 a	99.0 a	9.7 b
7	KFD 51-01 AMS Ultra Blazer	1.00 1 8	lb ae/a % ai/v oz/a	42.6 8.34	oz/a lb/100 gal	POST POST POST	A A A	99.0 a	6.3 a	99.0 a	98.3 a	99.0 a	6.3 b-e
8	KFD 51-01 AMS Ultra Blazer	0.75 1 12	lb ae/a % ai/v oz/a	32 8.34	oz/a lb/100 gal	POST POST POST	A A A	99.0 a	6.0 a	99.0 a	92.0 bc	98.0 b	4.5 c-f
9	KFD 51-01 AMS Ultra Blazer	1.00 1 12	lb ae/a % ai/v oz/a	42.6 8.34	oz/a lb/100 gal	POST POST POST	A A A	99.0 a	1.0 a	99.0 a	99.0 a	99.0 a	1.5 ef
10	KFD 51-01 AMS Ultra Blazer	0.75 1 16	lb ae/a % ai/v oz/a	32 8.34	oz/a lb/100 gal	POST POST POST	A A A	99.0 a	2.0 a	99.0 a	97.7 a	99.0 a	15.0 a
11	KFD 51-01 AMS Ultra Blazer	1.00 1 16	lb ae/a % ai/v oz/a	42.6 8.34	oz/a lb/100 gal	POST POST POST	A A A	99.0 a	3.0 a	99.0 a	98.7 a	99.0 a	7.0 bcd
12	Credit Extra AMS Cadet	0.75 1 0.5	lb ae/a % ai/v oz/a	32 8.34	oz/a lb/100 gal	POST POST POST	A A A	99.0 a	3.0 a	99.0 a	99.0 a	99.0 a	9.0 bc
13	Credit Extra AMS Cadet	0.75 1 0.7	lb ae/a % ai/v oz/a	32 8.34	oz/a lb/100 gal	POST POST POST	A A A	99.0 a	2.0 a	99.0 a	99.0 a	99.0 a	2.5 def
14	Credit Extra AMS Cadet	0.75 1 0.9	lb ae/a % ai/v oz/a	32 8.34	oz/a lb/100 gal	POST POST POST	A A A	99.0 a	2.7 a	99.0 a	99.0 a	99.0 a	5.7 b-e
LSD (P=.05)							0.00	4.75	0.00	4.25	0.47	4.94	
Standard Deviation							0.00	2.77	0.00	2.52	0.28	2.88	
CV							0.0	84.59	0.0	2.79	0.3	52.8	
Grand Mean							91.93	3.27	91.93	90.36	91.86	5.45	
Bartlett's X2							0.0	10.82	0.0	17.794	0.0	8.599	
P(Bartlett's X2)							.	0.372	.	0.007*	.	0.571	
Replicate F							0.000	0.420	0.000	2.442	0.923	2.867	
Replicate Prob(F)							1.0000	0.6634	1.0000	0.1083	0.4109	0.0830	
Treatment F							0.000	1.912	0.000	322.665	27101.825	5.437	
Treatment Prob(F)							1.0000	0.1008	1.0000	0.0001	0.0001	0.0006	

Description		Venice mallow		Waterhemp		Waterhemp		Waterhemp		Waterhemp		Prostrate Spurge	
Rating Date		07-29-09		07-08-09		07-21-09		07-21-09		07-29-09		07-08-09	
Rating Type		Control		Control		Control		Density		Control		Control	
Rating Unit		Percent		Percent		Percent		m2 RunCH		Percent		Percent	
Days After First/Last Applic.		28 28		7 7		20 20		20 20		28 28		7 7	
Trt-Eval Interval		28 DA-A		7 DA-A		20 DA-A		20 DA-A		28 DA-A		7 DA-A	
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	20	21	22	23	24	25
1	Nontreated Check							0.0 b	0.0 c	0.0 c	0.0 a	0.0 b	0.0 c
2	KFD 51-01 AMS	0.75 1	lb ae/a % ai/v	32 8.34	oz/a lb/100 gal	POST POST	A A	99.0 a	98.3 b	99.0 a	6.3 a	99.0 a	93.3 b
3	KFD 51-01 AMS	1.00 1	lb ae/a % ai/v	42.6 8.34	oz/a lb/100 gal	POST POST	A A	99.0 a	99.0 a	99.0 a	5.0 a	99.0 a	99.0 a
4	KFD 51-01 AMS Ultra Blazer	0.75 1 4	lb ae/a % ai/v oz/a	32 8.34	oz/a lb/100 gal	POST POST POST	A A A	99.0 a	99.0 a	99.0 a	5.5 a	99.0 a	98.3 a
5	KFD 51-01 AMS Ultra Blazer	1.00 1 4	lb ae/a % ai/v oz/a	42.6 8.34	oz/a lb/100 gal	POST POST POST	A A A	99.0 a	99.0 a	99.0 a	3.3 a	99.0 a	99.0 a
6	KFD 51-01 AMS Ultra Blazer	0.75 1 8	lb ae/a % ai/v oz/a	32 8.34	oz/a lb/100 gal	POST POST POST	A A A	99.0 a	99.0 a	99.0 a	2.7 a	99.0 a	99.0 a
7	KFD 51-01 AMS Ultra Blazer	1.00 1 8	lb ae/a % ai/v oz/a	42.6 8.34	oz/a lb/100 gal	POST POST POST	A A A	99.0 a	99.0 a	99.0 a	3.3 a	99.0 a	99.0 a
8	KFD 51-01 AMS Ultra Blazer	0.75 1 12	lb ae/a % ai/v oz/a	32 8.34	oz/a lb/100 gal	POST POST POST	A A A	99.0 a	99.0 a	98.0 b	5.0 a	99.0 a	98.0 a
9	KFD 51-01 AMS Ultra Blazer	1.00 1 12	lb ae/a % ai/v oz/a	42.6 8.34	oz/a lb/100 gal	POST POST POST	A A A	99.0 a	99.0 a	99.0 a	10.5 a	99.0 a	99.0 a
10	KFD 51-01 AMS Ultra Blazer	0.75 1 16	lb ae/a % ai/v oz/a	32 8.34	oz/a lb/100 gal	POST POST POST	A A A	99.0 a	99.0 a	99.0 a	5.7 a	99.0 a	99.0 a
11	KFD 51-01 AMS Ultra Blazer	1.00 1 16	lb ae/a % ai/v oz/a	42.6 8.34	oz/a lb/100 gal	POST POST POST	A A A	99.0 a	99.0 a	99.0 a	6.5 a	99.0 a	99.0 a
12	Credit Extra AMS Cadet	0.75 1 0.5	lb ae/a % ai/v oz/a	32 8.34	oz/a lb/100 gal	POST POST POST	A A A	99.0 a	99.0 a	99.0 a	4.5 a	99.0 a	97.7 a
13	Credit Extra AMS Cadet	0.75 1 0.7	lb ae/a % ai/v oz/a	32 8.34	oz/a lb/100 gal	POST POST POST	A A A	99.0 a	99.0 a	99.0 a	4.5 a	99.0 a	99.0 a
14	Credit Extra AMS Cadet	0.75 1 0.9	lb ae/a % ai/v oz/a	32 8.34	oz/a lb/100 gal	POST POST POST	A A A	99.0 a	99.0 a	99.0 a	7.0 a	99.0 a	99.0 a
LSD (P=.05)				0.00				0.00	0.54	0.47	4.78	0.00	1.80
Standard Deviation				0.00				0.00	0.32	0.28	2.79	0.00	1.07
CV				0.0				0.0	0.35	0.3	55.85	0.0	1.17
Grand Mean				91.93				91.93	91.88	91.86	4.99	91.93	91.31
Bartlett's X2				0.0				0.0	0.0	0.0	7.137	0.0	1.687
P(Bartlett's X2)				0.788	.	0.64
Replicate F				0.000				0.000	0.923	0.923	1.685	0.000	2.024
Replicate Prob(F)				1.0000				1.0000	0.4109	0.4109	0.2134	1.0000	0.1540
Treatment F				0.000				0.000	20335.760	27101.825	2.244	0.000	1822.152
Treatment Prob(F)				1.0000				1.0000	0.0001	0.0001	0.0564	1.0000	0.0001

Description								Prostrate Spurge	Prostrate Spurge	Prostrate Spurge
Rating Date								07-21-09	07-21-09	07-29-09
Rating Type								Control	Density	Control
Rating Unit								Percent	m2 RunCH	Percent
Days After First/Last Applic.								20 20	20 20	28 28
Trt-Eval Interval								20 DA-A	20 DA-A	28 DA-A
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	26	27	28
1	Nontreated Check							0.0 c	0.0 a	0.0 b
2	KFD 51-01	0.75	lb ae/a	32	oz/a	POST	A	99.0 a	13.3 a	99.0 a
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A			
3	KFD 51-01	1.00	lb ae/a	42.6	oz/a	POST	A	99.0 a	10.0 a	99.0 a
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A			
4	KFD 51-01	0.75	lb ae/a	32	oz/a	POST	A	98.7 b	12.5 a	99.0 a
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A			
	Ultra Blazer	4	oz/a			POST	A			
5	KFD 51-01	1.00	lb ae/a	42.6	oz/a	POST	A	99.0 a	7.7 a	99.0 a
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A			
	Ultra Blazer	4	oz/a			POST	A			
6	KFD 51-01	0.75	lb ae/a	32	oz/a	POST	A	99.0 a	7.3 a	99.0 a
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A			
	Ultra Blazer	8	oz/a			POST	A			
7	KFD 51-01	1.00	lb ae/a	42.6	oz/a	POST	A	99.0 a	8.7 a	99.0 a
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A			
	Ultra Blazer	8	oz/a			POST	A			
8	KFD 51-01	0.75	lb ae/a	32	oz/a	POST	A	99.0 a	6.0 a	99.0 a
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A			
	Ultra Blazer	12	oz/a			POST	A			
9	KFD 51-01	1.00	lb ae/a	42.6	oz/a	POST	A	99.0 a	8.0 a	99.0 a
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A			
	Ultra Blazer	12	oz/a			POST	A			
10	KFD 51-01	0.75	lb ae/a	32	oz/a	POST	A	99.0 a	8.7 a	99.0 a
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A			
	Ultra Blazer	16	oz/a			POST	A			
11	KFD 51-01	1.00	lb ae/a	42.6	oz/a	POST	A	99.0 a	7.5 a	99.0 a
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A			
	Ultra Blazer	16	oz/a			POST	A			
12	Credit Extra	0.75	lb ae/a	32	oz/a	POST	A	99.0 a	7.5 a	99.0 a
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A			
	Cadet	0.5	oz/a			POST	A			
13	Credit Extra	0.75	lb ae/a	32	oz/a	POST	A	99.0 a	10.0 a	99.0 a
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A			
	Cadet	0.7	oz/a			POST	A			
14	Credit Extra	0.75	lb ae/a	32	oz/a	POST	A	99.0 a	11.7 a	99.0 a
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A			
	Cadet	0.9	oz/a			POST	A			
LSD (P=.05)								0.27	7.58	0.00
Standard Deviation								0.16	4.40	0.00
CV								0.17	51.86	0.0
Grand Mean								91.9	8.49	91.93
Bartlett's X2								0.0	8.585	0.0
P(Bartlett's X2)								.	0.572	.
Replicate F								0.923	1.189	0.000
Replicate Prob(F)								0.4109	0.3286	1.0000
Treatment F								81382.446	1.629	0.000
Treatment Prob(F)								0.0001	0.1712	1.0000

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.

Rating Unit

% = percent

Percent = percent

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2009 Glyphosate combination comparisons with difficult to control weeds using Cadet and Ultra Blazer

Trial ID: 09 SRR-8 KFD Cadet Protocol ID: 09 SRR-8 KFD Cadet
 Location: Concord, NE Study Director:
 Project ID: GLYP 06 US NE 09 01PWR Investigator: Stevan Knezevic
 Sponsor Contact:

Description								Kruger SB	Kruger SB	Pioneer SB	Pioneer SB	Soybean	Soybean	Soybean
Rating Date								11-07-09	11-07-09	11-07-09	11-07-09	07-06-09	07-06-09	07-21-09
Rating Type								Yield@13.0%	Moisture	Yield@13.0%	Moisture	Necrosis	Stunting	Crop Injury
Rating Unit								bu/A	%	bu/A	%	Percent	Percent	Percent
Days After First/Last Applic.								129 129	129 129	129 129	129 129	5 5	5 5	20 20
Trt-Eval Interval								129 DA-A	129 DA-A	129 DA-A	129 DA-A	38 DA-A	38 DA-A	20 DA-A
Trt No.	Treatment Name	Rate	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	1	2	3	4	5	6	7
1	Nontreated Check						101	37.840	11.560	45.460	12.280	0.0	0.0	0.0
							212	37.700	11.000	25.370	11.060	0.0	0.0	0.0
							307	32.410	10.860	28.100	10.800	0.0	0.0	0.0
							Mean =	35.983	11.140	32.977	11.380	0.0	0.0	0.0
2	KFD 51-01	0.75 lb ae/a	32 oz/a		POST	A	102	52.840	11.430	58.790	12.250	0.0	0.0	0.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	206	46.070	10.910	52.610	11.730	0.0	0.0	0.0
							309	44.010	10.920	46.710	11.330	0.0	0.0	0.0
							Mean =	47.640	11.087	52.703	11.770	0.0	0.0	0.0
3	KFD 51-01	1.00 lb ae/a	42.6 oz/a		POST	A	103	55.180	11.380	60.330	12.110	0.0	0.0	0.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	209	45.210	11.000	47.210	11.500	0.0	0.0	0.0
							302							
							Mean =	50.195	11.190	53.770	11.805	0.0	0.0	0.0
4	KFD 51-01	0.75 lb ae/a	32 oz/a		POST	A	104	48.910	11.150	57.850	11.900	15.0	5.0	8.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	205	49.950	11.210	52.940	11.880	15.0	0.0	5.0
	Ultra Blazer	4 oz/a			POST	A	312	39.630	11.040	27.790	10.750	0.0	0.0	6.0
							Mean =	46.163	11.133	46.193	11.510	10.0	1.7	6.3
5	KFD 51-01	1.00 lb ae/a	42.6 oz/a		POST	A	105	48.280	11.210	55.190	11.970	15.0	10.0	8.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	207	44.000	10.820	46.780	11.710	15.0	20.0	15.0
	Ultra Blazer	4 oz/a			POST	A	311	40.840	10.980	43.640	11.220	12.0	3.0	10.0
							Mean =	44.373	11.003	48.537	11.633	14.0	11.0	11.0
6	KFD 51-01	0.75 lb ae/a	32 oz/a		POST	A	106	48.420	11.060	58.310	11.780	15.0	10.0	12.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	204	51.320	11.260	57.600	11.880	15.0	5.0	5.0
	Ultra Blazer	8 oz/a			POST	A	305	47.080	11.250	53.690	11.970	15.0	5.0	10.0
							Mean =	48.940	11.190	56.533	11.877	15.0	6.7	9.0
7	KFD 51-01	1.00 lb ae/a	42.6 oz/a		POST	A	107	46.560	10.890	52.890	11.620	20.0	10.0	12.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	203	44.810	11.470	51.100	12.110	15.0	25.0	25.0
	Ultra Blazer	8 oz/a			POST	A	308	46.530	10.960	51.960	11.460	18.0	10.0	10.0
							Mean =	45.967	11.107	51.983	11.730	17.7	15.0	15.7
8	KFD 51-01	0.75 lb ae/a	32 oz/a		POST	A	108	48.990	10.910	55.780	11.630	20.0	25.0	16.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	214	37.830	11.330	41.720	11.180	15.0	3.0	10.0
	Ultra Blazer	12 oz/a			POST	A	303							
							Mean =	43.410	11.120	48.750	11.405	17.5	14.0	13.0
9	KFD 51-01	1.00 lb ae/a	42.6 oz/a		POST	A	109	46.490	10.920	53.180	11.490	20.0	25.0	15.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	201	48.340	11.590	53.570	12.250	20.0	25.0	15.0
	Ultra Blazer	12 oz/a			POST	A	304	47.280	11.160	53.470	11.980	15.0	10.0	15.0
							Mean =	47.370	11.223	53.407	11.907	18.3	20.0	15.0

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Description								Kruger SB	Kruger SB	Pioneer SB	Pioneer SB	Soybean	Soybean	Soybean
Rating Date								11-07-09	11-07-09	11-07-09	11-07-09	07-06-09	07-06-09	07-21-09
Rating Type								Yield@13.0%	Moisture	Yield@13.0%	Moisture	Necrosis	Stunting	Crop Injury
Rating Unit								bu/A	%	bu/A	%	Percent	Percent	Percent
Days After First/Last Applic.								129 129	129 129	129 129	129 129	5 5	5 5	20 20
Trt-Eval Interval								129 DA-A	129 DA-A	129 DA-A	129 DA-A	38 DA-A	38 DA-A	20 DA-A
Trt No.	Treatment Name	Rate	Other Rate	Other Unit	Growth Stage	Appl Code	Plot	1	2	3	4	5	6	7
10	KFD 51-01	0.75 lb ae/a	32 oz/a		POST	A	110	40.940	11.010	52.350	11.440	20.0	15.0	15.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	208	42.930	10.910	52.260	11.500	20.0	25.0	20.0
	Ultra Blazer	16 oz/a			POST	A	301	48.970	11.520	55.070	12.250	15.0	20.0	15.0
							Mean =	44.280	11.147	53.227	11.730	18.3	20.0	16.7
11	KFD 51-01	1.00 lb ae/a	42.6 oz/a		POST	A	111	43.420	11.020	41.640	11.360	25.0	25.0	20.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	210	38.620	11.010	42.830	11.340	25.0	15.0	20.0
	Ultra Blazer	16 oz/a			POST	A	313	39.060	11.360	39.900	11.150	18.0	20.0	25.0
							Mean =	40.367	11.130	41.457	11.283	22.7	20.0	21.7
12	Credit Extra	0.75 lb ae/a	32 oz/a		POST	A	112	40.710	11.040	33.480	11.300	3.0	0.0	5.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	213	41.080	11.400	39.940	11.300	3.0	0.0	4.0
	Cadet	0.5 oz/a			POST	A	314	43.330	11.300	44.760	11.250	3.0	0.0	5.0
							Mean =	41.707	11.247	39.393	11.283	3.0	0.0	4.7
13	Credit Extra	0.75 lb ae/a	32 oz/a		POST	A	113			50.590	11.320	3.0	0.0	7.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	211	42.090	10.970	39.690	11.270	5.0	0.0	5.0
	Cadet	0.7 oz/a			POST	A	310	40.760	11.050	43.720	11.280	5.0	0.0	8.0
							Mean =	41.425	11.010	44.667	11.290	4.3	0.0	6.7
14	Credit Extra	0.75 lb ae/a	32 oz/a		POST	A	114	45.160	11.530	48.680	11.370	10.0	5.0	15.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	202	47.520	11.430	49.650	12.130	10.0	15.0	20.0
	Cadet	0.9 oz/a			POST	A	306	48.730	10.980	52.650	11.740	7.0	0.0	8.0
							Mean =	47.137	11.313	50.327	11.747	9.0	6.7	14.3

Description								Soybean	Green foxtail	Green foxtail	Green foxtail	Green foxtail	crabgrass	
Rating Date								07-29-09	07-08-09	07-21-09	07-21-09	07-29-09	07-08-09	
Rating Type								Crop Injury	Control	Control	Density	Control	Control	
Rating Unit								Percent	Percent	Percent	m2 RunCH	Percent	Percent	
Days After First/Last Applic.								28 28	7 7	20 20	20 20	28 28	7 7	
Trt-Eval Interval								28 DA-A	7 DA-A	20 DA-A	20 DA-A	28 DA-A	7 DA-A	
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	Plot	8	9	10	11	12	13
1	Nontreated Check							101	0.0	0.0	0.0	0.0	0.0	0.0
								212	0.0	0.0	0.0	0.0	0.0	0.0
								307	0.0	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0	0.0
2	KFD 51-01	0.75	lb ae/a	32	oz/a	POST	A	102	0.0	99.0	99.0	15.0	99.0	99.0
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A	206	0.0	99.0	99.0	20.0	99.0	99.0
								309	0.0	99.0	99.0	8.0	99.0	99.0
								Mean =	0.0	99.0	99.0	14.3	99.0	99.0
3	KFD 51-01	1.00	lb ae/a	42.6	oz/a	POST	A	103	0.0	99.0	99.0		99.0	99.0
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A	209	0.0	99.0	99.0	6.0	99.0	99.0
								302						
								Mean =	0.0	99.0	99.0	6.0	99.0	99.0
4	KFD 51-01	0.75	lb ae/a	32	oz/a	POST	A	104	2.0	99.0	99.0	30.0	99.0	99.0
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A	205	2.0	99.0	99.0		99.0	99.0
	Ultra Blazer	4	oz/a			POST	A	312	2.0	99.0	99.0	4.0	99.0	99.0
								Mean =	2.0	99.0	99.0	17.0	99.0	99.0
5	KFD 51-01	1.00	lb ae/a	42.6	oz/a	POST	A	105	4.0	99.0	99.0	20.0	99.0	99.0
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A	207	8.0	99.0	99.0	15.0	99.0	99.0
	Ultra Blazer	4	oz/a			POST	A	311	3.0	99.0	99.0	5.0	99.0	99.0
								Mean =	5.0	99.0	99.0	13.3	99.0	99.0
6	KFD 51-01	0.75	lb ae/a	32	oz/a	POST	A	106	5.0	99.0	99.0	10.0	99.0	99.0
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A	204	5.0	99.0	99.0	10.0	99.0	99.0
	Ultra Blazer	8	oz/a			POST	A	305	6.0	99.0	99.0	20.0	99.0	99.0
								Mean =	5.3	99.0	99.0	13.3	99.0	99.0
7	KFD 51-01	1.00	lb ae/a	42.6	oz/a	POST	A	107	8.0	99.0	99.0	10.0	99.0	99.0
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A	203	15.0	99.0	99.0	25.0	99.0	99.0
	Ultra Blazer	8	oz/a			POST	A	308	10.0	99.0	99.0	6.0	99.0	99.0
								Mean =	11.0	99.0	99.0	13.7	99.0	99.0
8	KFD 51-01	0.75	lb ae/a	32	oz/a	POST	A	108	10.0	99.0	99.0	6.0	99.0	99.0
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A	214	5.0	99.0	99.0	10.0	99.0	99.0
	Ultra Blazer	12	oz/a			POST	A	303						
								Mean =	7.5	99.0	99.0	8.0	99.0	99.0
9	KFD 51-01	1.00	lb ae/a	42.6	oz/a	POST	A	109	10.0	99.0	99.0		99.0	99.0
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A	201	12.0	99.0	99.0	20.0	99.0	99.0
	Ultra Blazer	12	oz/a			POST	A	304	10.0	99.0	99.0	20.0	99.0	99.0
								Mean =	10.7	99.0	99.0	20.0	99.0	99.0

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Description								Soybean	Green foxtail	Green foxtail	Green foxtail	Green foxtail	crabgrass
Rating Date								07-29-09	07-08-09	07-21-09	07-21-09	07-29-09	07-08-09
Rating Type								Crop Injury	Control	Control	Density	Control	Control
Rating Unit								Percent	Percent	Percent	m2 RunCH	Percent	Percent
Days After First/Last Applic.								28 28	7 7	20 20	20 20	28 28	7 7
Trt-Eval Interval								28 DA-A	7 DA-A	20 DA-A	20 DA-A	28 DA-A	7 DA-A
Trt No.	Treatment Name	Rate	Other Rate	Other Unit	Growth Stage	Appl Code	Plot	8	9	10	11	12	13
10	KFD 51-01	0.75 lb ae/a	32 oz/a		POST	A	110	10.0	99.0	99.0	8.0	99.0	99.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	208	8.0	99.0	99.0	10.0	99.0	99.0
	Ultra Blazer	16 oz/a			POST	A	301	10.0	99.0	99.0	20.0	99.0	99.0
							Mean =	9.3	99.0	99.0	12.7	99.0	99.0
11	KFD 51-01	1.00 lb ae/a	42.6 oz/a		POST	A	111	15.0	99.0	99.0		99.0	99.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	210	12.0	99.0	99.0	4.0	99.0	99.0
	Ultra Blazer	16 oz/a			POST	A	313	20.0	99.0	99.0	12.0	99.0	99.0
							Mean =	15.7	99.0	99.0	8.0	99.0	99.0
12	Credit Extra	0.75 lb ae/a	32 oz/a		POST	A	112	2.0	99.0	99.0	6.0	99.0	99.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	213	3.0	99.0	99.0		99.0	99.0
	Cadet	0.5 oz/a			POST	A	314	2.0	99.0	99.0	10.0	99.0	99.0
							Mean =	2.3	99.0	99.0	8.0	99.0	99.0
13	Credit Extra	0.75 lb ae/a	32 oz/a		POST	A	113	8.0	99.0	99.0		99.0	99.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	211	3.0	99.0	99.0	3.0	99.0	99.0
	Cadet	0.7 oz/a			POST	A	310	5.0	99.0	99.0	10.0	99.0	99.0
							Mean =	5.3	99.0	99.0	6.5	99.0	99.0
14	Credit Extra	0.75 lb ae/a	32 oz/a		POST	A	114	8.0	99.0	99.0	30.0	99.0	99.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	202	10.0	99.0	99.0	20.0	99.0	99.0
	Cadet	0.9 oz/a			POST	A	306	6.0	99.0	99.0	25.0	99.0	99.0
							Mean =	8.0	99.0	99.0	25.0	99.0	99.0

Description									crabgrass	crabgrass	crabgrass	Venice mallow	Venice mallow	Venice mallow
Rating Date									07-21-09	07-21-09	07-29-09	07-08-09	07-21-09	07-21-09
Rating Type									Control	Density	Control	Control	Control	Density
Rating Unit									Percent	m2 RunCH	Percent	Percent	Percent	m2 RunCH
Days After First/Last Applic.									20 20	20 20	28 28	7 7	20 20	20 20
Trt-Eval Interval									20 DA-A	20 DA-A	28 DA-A	7 DA-A	20 DA-A	20 DA-A
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	Plot	14	15	16	17	18	19
1	Nontreated Check							101	0.0	0.0	0.0	0.0	0.0	0.0
								212	0.0	0.0	0.0	0.0	0.0	0.0
								307	0.0	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0	0.0
2	KFD 51-01	0.75	lb ae/a	32	oz/a	POST	A	102	99.0	2.0	99.0	95.0	99.0	2.0
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A	206	99.0	3.0	99.0	90.0	99.0	6.0
								309	99.0	1.0	99.0	90.0	99.0	6.0
								Mean =	99.0	2.0	99.0	91.7	99.0	4.7
3	KFD 51-01	1.00	lb ae/a	42.6	oz/a	POST	A	103	99.0		99.0	99.0	99.0	
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A	209	99.0	1.0	99.0	99.0	99.0	3.0
								302						
								Mean =	99.0	1.0	99.0	99.0	99.0	3.0
4	KFD 51-01	0.75	lb ae/a	32	oz/a	POST	A	104	99.0	3.0	99.0	97.0	99.0	2.0
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A	205	99.0		99.0	97.0	99.0	
	Ultra Blazer	4	oz/a			POST	A	312	99.0	10.0	99.0	96.0	99.0	3.0
								Mean =	99.0	6.5	99.0	96.7	99.0	2.5
5	KFD 51-01	1.00	lb ae/a	42.6	oz/a	POST	A	105	99.0	4.0	99.0	99.0	99.0	3.0
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A	207	99.0	5.0	99.0	99.0	99.0	4.0
	Ultra Blazer	4	oz/a			POST	A	311	99.0	3.0	99.0	90.0	99.0	8.0
								Mean =	99.0	4.0	99.0	96.0	99.0	5.0
6	KFD 51-01	0.75	lb ae/a	32	oz/a	POST	A	106	99.0	8.0	99.0	99.0	99.0	10.0
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A	204	99.0	10.0	99.0	99.0	99.0	4.0
	Ultra Blazer	8	oz/a			POST	A	305	99.0	1.0	99.0	99.0	99.0	15.0
								Mean =	99.0	6.3	99.0	99.0	99.0	9.7
7	KFD 51-01	1.00	lb ae/a	42.6	oz/a	POST	A	107	99.0	8.0	99.0	99.0	99.0	3.0
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A	203	99.0	8.0	99.0	99.0	99.0	6.0
	Ultra Blazer	8	oz/a			POST	A	308	99.0	3.0	99.0	97.0	99.0	10.0
								Mean =	99.0	6.3	99.0	98.3	99.0	6.3
8	KFD 51-01	0.75	lb ae/a	32	oz/a	POST	A	108	99.0	2.0	99.0	99.0	99.0	1.0
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A	214	99.0	10.0	99.0	85.0	97.0	8.0
	Ultra Blazer	12	oz/a			POST	A	303						
								Mean =	99.0	6.0	99.0	92.0	98.0	4.5
9	KFD 51-01	1.00	lb ae/a	42.6	oz/a	POST	A	109	99.0		99.0	99.0	99.0	
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A	201	99.0	1.0	99.0	99.0	99.0	2.0
	Ultra Blazer	12	oz/a			POST	A	304	99.0	1.0	99.0	99.0	99.0	1.0
								Mean =	99.0	1.0	99.0	99.0	99.0	1.5

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Description								crabgrass	crabgrass	crabgrass	Venice mallow	Venice mallow	Venice mallow
Rating Date								07-21-09	07-21-09	07-29-09	07-08-09	07-21-09	07-21-09
Rating Type								Control	Density	Control	Control	Control	Density
Rating Unit								Percent	m2 RunCH	Percent	Percent	Percent	m2 RunCH
Days After First/Last Applic.								20 20	20 20	28 28	7 7	20 20	20 20
Trt-Eval Interval								20 DA-A	20 DA-A	28 DA-A	7 DA-A	20 DA-A	20 DA-A
Trt No.	Treatment Name	Rate	Other Rate	Other Unit	Growth Stage	Appl Code	Plot	14	15	16	17	18	19
10	KFD 51-01	0.75 lb ae/a	32 oz/a		POST	A	110	99.0	3.0	99.0	99.0	99.0	15.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	208	99.0	1.0	99.0	99.0	99.0	15.0
	Ultra Blazer	16 oz/a			POST	A	301	99.0	2.0	99.0	95.0	99.0	15.0
	Mean =								99.0	2.0	99.0	97.7	99.0
11	KFD 51-01	1.00 lb ae/a	42.6 oz/a		POST	A	111	99.0		99.0	99.0	99.0	
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	210	99.0	1.0	99.0	99.0	99.0	4.0
	Ultra Blazer	16 oz/a			POST	A	313	99.0	5.0	99.0	98.0	99.0	10.0
	Mean =								99.0	3.0	99.0	98.7	99.0
12	Credit Extra	0.75 lb ae/a	32 oz/a		POST	A	112	99.0	2.0	99.0	99.0	99.0	10.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	213	99.0		99.0	99.0	99.0	
	Cadet	0.5 oz/a			POST	A	314	99.0	4.0	99.0	99.0	99.0	8.0
	Mean =								99.0	3.0	99.0	99.0	99.0
13	Credit Extra	0.75 lb ae/a	32 oz/a		POST	A	113	99.0		99.0	99.0	99.0	
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	211	99.0	3.0	99.0	99.0	99.0	2.0
	Cadet	0.7 oz/a			POST	A	310	99.0	1.0	99.0	99.0	99.0	3.0
	Mean =								99.0	2.0	99.0	99.0	99.0
14	Credit Extra	0.75 lb ae/a	32 oz/a		POST	A	114	99.0	2.0	99.0	99.0	99.0	1.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	202	99.0	1.0	99.0	99.0	99.0	6.0
	Cadet	0.9 oz/a			POST	A	306	99.0	5.0	99.0	99.0	99.0	10.0
	Mean =								99.0	2.7	99.0	99.0	99.0

Description									Venice mallow	Waterhemp	Waterhemp	Waterhemp	Waterhemp	Prostrate Spurge
Rating Date									07-29-09	07-08-09	07-21-09	07-21-09	07-29-09	07-08-09
Rating Type									Control	Control	Control	Density	Control	Control
Rating Unit									Percent	Percent	Percent	m2 RunCH	Percent	Percent
Days After First/Last Applic.									28 28	7 7	20 20	20 20	28 28	7 7
Trt-Eval Interval									28 DA-A	7 DA-A	20 DA-A	20 DA-A	28 DA-A	7 DA-A
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	Plot	20	21	22	23	24	25
1	Nontreated Check							101 212 307	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
								Mean =	0.0	0.0	0.0	0.0	0.0	0.0
2	KFD 51-01 AMS	0.75 1	lb ae/a % ai/v	32 8.34	oz/a lb/100 gal	POST POST	A A	102 206 309	99.0 99.0 99.0	99.0 99.0 97.0	99.0 99.0 99.0	10.0 6.0 3.0	99.0 99.0 99.0	95.0 90.0 95.0
								Mean =	99.0	98.3	99.0	6.3	99.0	93.3
3	KFD 51-01 AMS	1.00 1	lb ae/a % ai/v	42.6 8.34	oz/a lb/100 gal	POST POST	A A	103 209 302	99.0 99.0	99.0 99.0	99.0 99.0	5.0	99.0 99.0	99.0 99.0
								Mean =	99.0	99.0	99.0	5.0	99.0	99.0
4	KFD 51-01 AMS Ultra Blazer	0.75 1 4	lb ae/a % ai/v oz/a	32 8.34	oz/a lb/100 gal	POST POST POST	A A A	104 205 312	99.0 99.0 99.0	99.0 99.0 99.0	99.0 99.0 99.0	6.0 6.0 5.0	99.0 99.0 99.0	99.0 99.0 97.0
								Mean =	99.0	99.0	99.0	5.5	99.0	98.3
5	KFD 51-01 AMS Ultra Blazer	1.00 1 4	lb ae/a % ai/v oz/a	42.6 8.34	oz/a lb/100 gal	POST POST POST	A A A	105 207 311	99.0 99.0 99.0	99.0 99.0 99.0	99.0 99.0 99.0	6.0 3.0 1.0	99.0 99.0 99.0	99.0 99.0 99.0
								Mean =	99.0	99.0	99.0	3.3	99.0	99.0
6	KFD 51-01 AMS Ultra Blazer	0.75 1 8	lb ae/a % ai/v oz/a	32 8.34	oz/a lb/100 gal	POST POST POST	A A A	106 204 305	99.0 99.0 99.0	99.0 99.0 99.0	99.0 99.0 99.0	5.0 2.0 1.0	99.0 99.0 99.0	99.0 99.0 99.0
								Mean =	99.0	99.0	99.0	2.7	99.0	99.0
7	KFD 51-01 AMS Ultra Blazer	1.00 1 8	lb ae/a % ai/v oz/a	42.6 8.34	oz/a lb/100 gal	POST POST POST	A A A	107 203 308	99.0 99.0 99.0	99.0 99.0 99.0	99.0 99.0 99.0	4.0 5.0 1.0	99.0 99.0 99.0	99.0 99.0 99.0
								Mean =	99.0	99.0	99.0	3.3	99.0	99.0
8	KFD 51-01 AMS Ultra Blazer	0.75 1 12	lb ae/a % ai/v oz/a	32 8.34	oz/a lb/100 gal	POST POST POST	A A A	108 214 303	99.0 99.0	99.0 99.0	99.0 97.0	4.0 6.0	99.0 99.0	99.0 97.0
								Mean =	99.0	99.0	98.0	5.0	99.0	98.0
9	KFD 51-01 AMS Ultra Blazer	1.00 1 12	lb ae/a % ai/v oz/a	42.6 8.34	oz/a lb/100 gal	POST POST POST	A A A	109 201 304	99.0 99.0 99.0	99.0 99.0 99.0	99.0 99.0 99.0	15.0 6.0	99.0 99.0 99.0	99.0 99.0 99.0
								Mean =	99.0	99.0	99.0	10.5	99.0	99.0

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Description								Venice mallow	Waterhemp	Waterhemp	Waterhemp	Waterhemp	Prostrate Spurge
Rating Date								07-29-09	07-08-09	07-21-09	07-21-09	07-29-09	07-08-09
Rating Type								Control	Control	Control	Density	Control	Control
Rating Unit								Percent	Percent	Percent	m2 RunCH	Percent	Percent
Days After First/Last Applic.								28 28	7 7	20 20	20 20	28 28	7 7
Trt-Eval Interval								28 DA-A	7 DA-A	20 DA-A	20 DA-A	28 DA-A	7 DA-A
Trt No.	Treatment Name	Rate	Other Rate	Other Unit	Growth Stage	Appl Code	Plot	20	21	22	23	24	25
10	KFD 51-01	0.75 lb ae/a	32 oz/a		POST	A	110	99.0	99.0	99.0	5.0	99.0	99.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	208	99.0	99.0	99.0	2.0	99.0	99.0
	Ultra Blazer	16 oz/a			POST	A	301	99.0	99.0	99.0	10.0	99.0	99.0
							Mean =	99.0	99.0	99.0	5.7	99.0	99.0
11	KFD 51-01	1.00 lb ae/a	42.6 oz/a		POST	A	111	99.0	99.0	99.0		99.0	99.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	210	99.0	99.0	99.0	8.0	99.0	99.0
	Ultra Blazer	16 oz/a			POST	A	313	99.0	99.0	99.0	5.0	99.0	99.0
							Mean =	99.0	99.0	99.0	6.5	99.0	99.0
12	Credit Extra	0.75 lb ae/a	32 oz/a		POST	A	112	99.0	99.0	99.0	5.0	99.0	99.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	213	99.0	99.0	99.0		99.0	95.0
	Cadet	0.5 oz/a			POST	A	314	99.0	99.0	99.0	4.0	99.0	99.0
							Mean =	99.0	99.0	99.0	4.5	99.0	97.7
13	Credit Extra	0.75 lb ae/a	32 oz/a		POST	A	113	99.0	99.0	99.0		99.0	99.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	211	99.0	99.0	99.0	3.0	99.0	99.0
	Cadet	0.7 oz/a			POST	A	310	99.0	99.0	99.0	6.0	99.0	99.0
							Mean =	99.0	99.0	99.0	4.5	99.0	99.0
14	Credit Extra	0.75 lb ae/a	32 oz/a		POST	A	114	99.0	99.0	99.0	10.0	99.0	99.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	202	99.0	99.0	99.0	8.0	99.0	99.0
	Cadet	0.9 oz/a			POST	A	306	99.0	99.0	99.0	3.0	99.0	99.0
							Mean =	99.0	99.0	99.0	7.0	99.0	99.0

Description									Prostrate Spurge	Prostrate Spurge	Prostrate Spurge
Rating Date									07-21-09	07-21-09	07-29-09
Rating Type									Control	Density	Control
Rating Unit									Percent	m2 RunCH	Percent
Days After First/Last Applic.									20 20	20 20	28 28
Trt-Eval Interval									20 DA-A	20 DA-A	28 DA-A
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	Plot	26	27	28
1	Nontreated Check							101 212 307	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0
								Mean =	0.0	0.0	0.0
2	KFD 51-01	0.75	lb ae/a	32	oz/a	POST	A	102	99.0	10.0	99.0
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A	206	99.0	10.0	99.0
								309	99.0	20.0	99.0
								Mean =	99.0	13.3	99.0
3	KFD 51-01	1.00	lb ae/a	42.6	oz/a	POST	A	103	99.0		99.0
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A	209	99.0	10.0	99.0
								302			
								Mean =	99.0	10.0	99.0
4	KFD 51-01	0.75	lb ae/a	32	oz/a	POST	A	104	99.0	5.0	99.0
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A	205	99.0		99.0
	Ultra Blazer	4	oz/a			POST	A	312	98.0	20.0	99.0
								Mean =	98.7	12.5	99.0
5	KFD 51-01	1.00	lb ae/a	42.6	oz/a	POST	A	105	99.0	3.0	99.0
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A	207	99.0	15.0	99.0
	Ultra Blazer	4	oz/a			POST	A	311	99.0	5.0	99.0
								Mean =	99.0	7.7	99.0
6	KFD 51-01	0.75	lb ae/a	32	oz/a	POST	A	106	99.0	4.0	99.0
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A	204	99.0	8.0	99.0
	Ultra Blazer	8	oz/a			POST	A	305	99.0	10.0	99.0
								Mean =	99.0	7.3	99.0
7	KFD 51-01	1.00	lb ae/a	42.6	oz/a	POST	A	107	99.0	10.0	99.0
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A	203	99.0	6.0	99.0
	Ultra Blazer	8	oz/a			POST	A	308	99.0	10.0	99.0
								Mean =	99.0	8.7	99.0
8	KFD 51-01	0.75	lb ae/a	32	oz/a	POST	A	108	99.0	2.0	99.0
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A	214	99.0	10.0	99.0
	Ultra Blazer	12	oz/a			POST	A	303			
								Mean =	99.0	6.0	99.0
9	KFD 51-01	1.00	lb ae/a	42.6	oz/a	POST	A	109	99.0		99.0
	AMS	1	% ai/v	8.34	lb/100 gal	POST	A	201	99.0	10.0	99.0
	Ultra Blazer	12	oz/a			POST	A	304	99.0	6.0	99.0
								Mean =	99.0	8.0	99.0

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Description								Prostrate Spurge	Prostrate Spurge	Prostrate Spurge
Rating Date								07-21-09	07-21-09	07-29-09
Rating Type								Control	Density	Control
Rating Unit								Percent	m2 RunCH	Percent
Days After First/Last Applic.								20 20	20 20	28 28
Trt-Eval Interval								20 DA-A	20 DA-A	28 DA-A
Trt No.	Treatment Name	Rate	Other Rate	Other Unit	Growth Stage	Appl Code	Plot	26	27	28
10	KFD 51-01	0.75 lb ae/a	32 oz/a		POST	A	110	99.0	10.0	99.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	208	99.0	8.0	99.0
	Ultra Blazer	16 oz/a			POST	A	301	99.0	8.0	99.0
							Mean =	99.0	8.7	99.0
11	KFD 51-01	1.00 lb ae/a	42.6 oz/a		POST	A	111	99.0		99.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	210	99.0	5.0	99.0
	Ultra Blazer	16 oz/a			POST	A	313	99.0	10.0	99.0
							Mean =	99.0	7.5	99.0
12	Credit Extra	0.75 lb ae/a	32 oz/a		POST	A	112	99.0	5.0	99.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	213	99.0		99.0
	Cadet	0.5 oz/a			POST	A	314	99.0	10.0	99.0
							Mean =	99.0	7.5	99.0
13	Credit Extra	0.75 lb ae/a	32 oz/a		POST	A	113	99.0		99.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	211	99.0	10.0	99.0
	Cadet	0.7 oz/a			POST	A	310	99.0	10.0	99.0
							Mean =	99.0	10.0	99.0
14	Credit Extra	0.75 lb ae/a	32 oz/a		POST	A	114	99.0	15.0	99.0
	AMS	1 % ai/v	8.34 lb/100 gal		POST	A	202	99.0	10.0	99.0
	Cadet	0.9 oz/a			POST	A	306	99.0	10.0	99.0
							Mean =	99.0	11.7	99.0

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2009 Glyphosate combination comparisons with difficult to control weeds using Cadet and Ultra Blazer

Trial ID: 09 SRR-8 KFD Cadet Protocol ID: 09 SRR-8 KFD Cadet
Location: Concord, NE Study Director:
Project ID: GLYP 06 US NE 09 01PWR Investigator: Stevan Knezevic
Sponsor Contact:

Rating Unit

% = percent

Percent = percent