

Northeast Research & Extension Center

2009 Preplant Burndown and Post Emergent Weed Control In Soybeans with KFD compounds

Trial ID: 09 SRR-5 UPI KFD Soy BD	Protocol ID: 09 SRR-5 UPI KFD Soy BD
Location: Concord, NE	Study Director:
Project ID: MTRI 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)
	BCH 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 SP40
	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)
	BCH 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 SP40
	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: DESPI *Descurainia pinnata*  
 Common Name: Pinnate tansymustard

Pest 2 Type: W Code: TAROF *Taraxacum officinale*  
 Common Name: Common dandelion

Pest 3 Type: W Code: ERICA *Conyza canadensis*  
 Common Name: Canada horseweed

Pest 4 Type: W Code: SETVI *Setaria viridis*  
 Common Name: Green foxtail

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

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

Soil Description

% Sand: 14 % OM: 2.3 Texture: SICL silty clay loam

% Silt: 56 pH: 5.5

% Clay: 30 CEC: 16.8 Fert. Level: F fair

Analyzed By:

Midwest Labs

buffer pH = 6.5

Application Description

	A	B	C
Application Date:	05-14-09	07-07-09	07-07-09
Time of Day:	10:00 am	10:30 am	10:50 am
Application Method:	spray	spray	spray
Application Timing:	Burndown	POST	POST
Application Placement:	foliar	foliar	foliar
Applied By:	js	js	js
Air Temperature, Unit:	53 F	81 F	81 F
% Relative Humidity:	59	52	52
Wind Velocity, Unit:	5 mph	3 mph	3 mph
Wind Direction:	N		
Dew Presence (Y/N):	N no	Y yes	Y yes
Soil Temperature, Unit:	49 F	77 F	77 F
Soil Moisture:	adequate	adequate	adequate
% Cloud Cover:	20	75	75

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		DESC	DESC
Stage Majority, Percent:		4T 100	4T 100
Height, Unit:		12 in	12 in
Crop 2 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		DESC	DESC
Stage Majority, Percent:		4T 100	4T 100
Height, Unit:		12 in	12 in

Pest Stage At Each Application

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	A		B		C	
Pest 1 Code, Type, Scale:	DESPI	W	DESPI	W	DESPI	W
Height, Unit:	4	in	8	in	8	in
Height Minimum, Maximum:	3	5	4	12	4	12
Pest 2 Code, Type, Scale:	TAROF	W	TAROF	W	TAROF	W
Diameter, Unit:	4	in	4	in	4	in
Height Minimum, Maximum:			2	8	2	8
Pest 3 Code, Type, Scale:	ERICA	W	ERICA	W	ERICA	W
Height, Unit:	1.5	in	12	in	12	in
Height Minimum, Maximum:	1	2	6	18	6	18
Pest 4 Code, Type, Scale:	SETVI	W	SETVI	W	SETVI	W
Height, Unit:			18	in	18	in
Height Minimum, Maximum:			12	24	12	24
Pest 5 Code, Type, Scale:	ABUTH	W	ABUTH	W	ABUTH	W
Height, Unit:	1.5	in	12	in	12	in
Height Minimum, Maximum:	1	2	8	16	8	16

Application Equipment

	A		B		C	
Appl. Equipment:	BACKPACK		backpack		backpack	
Operating Pressure, Unit:	40	PSI	20	psi	20	psi
Nozzle Type:	TURBO TEE		Turbo Tee		Turbo Tee	
Nozzle Size:	11002		11003		11003	
Nozzle Spacing, Unit:	20	IN	20	IN	20	IN
Boom Length, Unit:	10	FT	10	FT	10	FT
Boom Height, Unit:	12	IN	12	IN	12	IN
Ground Speed, Unit:	2.7 MPH		2.7 MPH		2.7 MPH	
Carrier:	WATER		WATER		WATER	
Spray Volume, Unit:	20	GPA	20	GPA	20	GPA
Mix Size, Unit:	1.8	Liters	1.8	Liters	1.8	Liters
Propellant:	co2		co2		co2	

Date            By            Notes  
07-07-09        js            Application noted Dew presence. It it either a yes or no input. Please note that it was a very slight dew at time of application.

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Location: Concord, NE Study Director:

Project ID: MTRI 06 US NE 09 01PWR Investigator: Stevan Knezevic

Sponsor Contact:

Description					Kruger SB	Kruger SB	Pioneer SB	Pioneer SB	Tansy Mustard	Tansy Mustard	
Rating Date					11-07-09	11-07-09	11-07-09	11-07-09	05-25-09	06-30-09	
Rating Type					Yield@13.0%	Moisture	Yield@13.0%	Moisture	Control	Control	
Rating Unit					bu/A	%	bu/A	%	Percent	Percent	
Days After First/Last Applic.					177 123	177 123	177 123	177 123	11 11	47 47	
Trt-Eval Interval											
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	1	2	3	4	5	6
1	Nontreated Check					3.680 b	13.477 a	0.260 b	13.523 a	0.0 e	0.0 c
2	KFD 49-01	3 oz/a		Burndown	A	34.733 a	11.060 b	34.400 a	11.443 b	38.3 d	40.0 b
	KFD 51-01	12 oz/a		Burndown	A						
	AMS	1 % ai/v		Burndown	A						
	KFD 51-01	48 oz/a		8" weeds	B						
	AMS	1 % ai/v		8" weeds	B						
3	KFD 49-01	6 oz/a		Burndown	A	39.130 a	10.987 b	40.243 a	11.567 b	40.0 d	85.0 a
	KFD 51-01	12 oz/a		Burndown	A						
	AMS	1 % ai/v		Burndown	A						
	KFD 51-01	48 oz/a		8" weeds	B						
	AMS	1 % ai/v		8" weeds	B						
4	KFD 49-01	3 oz/a		Burndown	A	38.307 a	10.900 b	39.640 a	11.547 b	45.0 cd	94.7 a
	KFD 51-01	18 oz/a		Burndown	A						
	AMS	1 % ai/v		Burndown	A						
	KFD 51-01	48 oz/a		8" weeds	B						
	AMS	1 % ai/v		8" weeds	B						
5	KFD 49-01	6 oz/a		Burndown	A	37.157 a	10.970 b	41.417 a	11.370 b	50.0 cd	97.7 a
	KFD 51-01	18 oz/a		Burndown	A						
	AMS	1 % ai/v		Burndown	A						
	KFD 51-01	48 oz/a		8" weeds	B						
	AMS	1 % ai/v		8" weeds	B						
6	Extreme	2 pt/a		Burndown	A	33.977 a	11.040 b	36.287 a	11.083 b	66.7 bc	99.0 a
	Prowl H2O	2 pt/a		Burndown	A						
	AMS	17 lb/100 gal		Burndown	A						
	Roundup Original	32 oz/a		MPOST	C						
	AMS	17 lb/100 gal		MPOST	C						
7	Prowl H2O	2 pt/a		Burndown	A	36.937 a	10.930 b	40.953 a	11.467 b	96.0 a	99.0 a
	Optill	2 oz/a		Burndown	A						
	Roundup Original	16 oz/a		Burndown	A						
	AMS	17 lb/100 gal		Burndown	A						
	Roundup Original	32 oz/a		MPOST	C						
	AMS	17 lb/100 gal		MPOST	C						
8	Extreme	2 pt/a		Burndown	A	37.320 a	11.040 b	41.190 a	11.443 b	99.0 a	99.0 a
	Sharpen	1 oz/a		Burndown	A						
	AMS	17 lb/100 gal		Burndown	A						
	Roundup Original	32 oz/a		MPOST	C						
	AMS	17 lb/100 gal		MPOST	C						

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Description					Kruger SB	Kruger SB	Pioneer SB	Pioneer SB	Tansy Mustard	Tansy Mustard	
Rating Date					11-07-09	11-07-09	11-07-09	11-07-09	05-25-09	06-30-09	
Rating Type					Yield@13.0%	Moisture	Yield@13.0%	Moisture	Control	Control	
Rating Unit					bu/A	%	bu/A	%	Percent	Percent	
Days After First/Last Applic.					177 123	177 123	177 123	177 123	11 11	47 47	
Trt-Eval Interval											
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	1	2	3	4	5	6
9	Roundup Original	16	oz/a	Burndown	A	37.897 a	11.093 b	38.463 a	11.313 b	83.3 ab	99.0 a
	AMS	17	lb/100 gal	Burndown	A						
	Roundup Original	32	oz/a	MPOST	C						
	AMS	17	lb/100 gal	MPOST	C						
LSD (P=.05)					7.2771	0.3029	9.2643	0.6303	22.27	16.16	
Standard Deviation					4.2041	0.1750	5.3521	0.3641	12.80	9.29	
CV					12.65	1.55	15.4	3.13	22.23	11.72	
Grand Mean					33.24	11.28	34.76	11.64	57.59	79.26	
Bartlett's X2					2.267	10.696	20.933	18.352	9.201	10.141	
P(Bartlett's X2)					0.972	0.22	0.007*	0.019*	0.163	0.017*	
Replicate F					0.362	0.082	0.212	0.108	1.512	0.914	
Replicate Prob(F)					0.7020	0.9221	0.8110	0.8980	0.2522	0.4222	
Treatment F					21.308	67.007	18.123	11.761	18.644	43.442	
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	

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					Tansy Mustard	Tansy Mustard	Dandelion	Dandelion	Dandelion	Dandelion	Marestail	Marestail	
Rating Date					07-30-09	07-30-09	05-25-09	06-30-09	07-30-09	07-30-09	05-25-09	06-30-09	
Rating Type					Control	Density	Control	Control	Control	Density	Control	Control	
Rating Unit					Percent	m2 RunCH	Percent	Percent	Percent	m2 RunCH	Percent	Percent	
Days After First/Last Applic.					77 23	77 23	11 11	47 47	77 23	77 23	11 11	47 47	
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	7	8	9	10	11	12	13	14
9	Roundup Original	16 oz/a		Burndown	A	99.0 a	1.3 a	30.0 d	56.7 c	99.0 a	4.3 ab	80.0 b	99.0 a
	AMS	17 lb/100 gal		Burndown	A								
	Roundup Original	32 oz/a		MPOST	C								
	AMS	17 lb/100 gal		MPOST	C								
LSD (P=.05)					0.00	2.08	12.70	19.83	0.33	2.86	13.96	11.96	
Standard Deviation					0.00	1.19	7.34	11.45	0.19	1.65	8.06	6.87	
CV					0.0	57.04	13.43	17.31	0.22	34.86	12.88	8.75	
Grand Mean					88.0	2.09	54.63	66.19	87.93	4.74	62.59	78.52	
Bartlett's X2					0.0	6.905	2.172	4.323	0.0	5.123	6.219	5.509	
P(Bartlett's X2)					.	0.439	0.704	0.742	.	0.645	0.285	0.357	
Replicate F					0.000	1.566	6.118	0.522	1.000	0.176	2.025	2.368	
Replicate Prob(F)					1.0000	0.2411	0.0106	0.6031	0.3897	0.8400	0.1644	0.1277	
Treatment F					0.000	1.771	52.467	17.132	88064.509	4.875	41.216	63.708	
Treatment Prob(F)					1.0000	0.1619	0.0001	0.0001	0.0001	0.0035	0.0001	0.0001	





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Description					Marestail	Marestail	Green foxtail	Green foxtail	Green foxtail	Velvetleaf	Velvetleaf	Velvetleaf	
Rating Date					07-30-09	07-30-09	06-30-09	07-30-09	07-30-09	05-25-09	06-30-09	07-30-09	
Rating Type					Control	Density	Control	Control	Density	Control	Control	Control	
Rating Unit					Percent	m2 RunCH	Percent	Percent	m2 RunCH	Percent	Percent	Percent	
Days After First/Last Applic.					77 23	77 23	47 47	77 23	77 23	11 11	47 47	77 23	
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	15	16	17	18	19	20	21	22
9	Roundup Original	16 oz/a		Burndown	A	99.0 a	2.7 a	10.0 c	99.0 a	16.7 a	80.0 bc	0.0 f	99.0 a
	AMS	17 lb/100 gal		Burndown	A								
	Roundup Original	32 oz/a		MPOST	C								
	AMS	17 lb/100 gal		MPOST	C								
LSD (P=.05)					0.00	2.80	8.94	0.00	8.20	17.62	14.24	0.00	
Standard Deviation					0.00	1.62	5.17	0.00	4.74	10.18	8.22	0.00	
CV					0.0	55.32	14.09	0.0	45.37	14.14	20.04	0.0	
Grand Mean					88.0	2.93	36.67	88.0	10.44	72.0	41.04	88.0	
Bartlett's X2					0.0	6.652	2.426	0.0	6.425	8.219	6.356	0.0	
P(Bartlett's X2)					.	0.466	0.489	.	0.491	0.223	0.273	.	
Replicate F					0.000	1.541	3.313	0.000	0.549	0.998	1.544	0.000	
Replicate Prob(F)					1.0000	0.2444	0.0625	1.0000	0.5879	0.3903	0.2436	1.0000	
Treatment F					0.000	1.806	190.901	0.000	3.588	25.182	63.918	0.000	
Treatment Prob(F)					1.0000	0.1496	0.0001	1.0000	0.0142	0.0001	0.0001	1.0000	

Description						Velvetleaf
Rating Date						07-30-09
Rating Type						Density
Rating Unit						m2 RunCH
Days After First/Last Applic.						77 23
Trt-Eval Interval						
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	
1	Nontreated Check					0.0 a
2	KFD 49-01	3	oz/a	Burndown	A	5.7 a
	KFD 51-01	12	oz/a	Burndown	A	
	AMS	1	% ai/v	Burndown	A	
	KFD 51-01	48	oz/a	8" weeds	B	
	AMS	1	% ai/v	8" weeds	B	
3	KFD 49-01	6	oz/a	Burndown	A	3.7 a
	KFD 51-01	12	oz/a	Burndown	A	
	AMS	1	% ai/v	Burndown	A	
	KFD 51-01	48	oz/a	8" weeds	B	
	AMS	1	% ai/v	8" weeds	B	
4	KFD 49-01	3	oz/a	Burndown	A	3.0 a
	KFD 51-01	18	oz/a	Burndown	A	
	AMS	1	% ai/v	Burndown	A	
	KFD 51-01	48	oz/a	8" weeds	B	
	AMS	1	% ai/v	8" weeds	B	
5	KFD 49-01	6	oz/a	Burndown	A	3.7 a
	KFD 51-01	18	oz/a	Burndown	A	
	AMS	1	% ai/v	Burndown	A	
	KFD 51-01	48	oz/a	8" weeds	B	
	AMS	1	% ai/v	8" weeds	B	
6	Extreme	2	pt/a	Burndown	A	3.0 a
	Prowl H2O	2	pt/a	Burndown	A	
	AMS	17	lb/100 gal	Burndown	A	
	Roundup Original	32	oz/a	MPOST	C	
	AMS	17	lb/100 gal	MPOST	C	
7	Prowl H2O	2	pt/a	Burndown	A	5.0 a
	Optill	2	oz/a	Burndown	A	
	Roundup Original	16	oz/a	Burndown	A	
	AMS	17	lb/100 gal	Burndown	A	
	Roundup Original	32	oz/a	MPOST	C	
	AMS	17	lb/100 gal	MPOST	C	
8	Extreme	2	pt/a	Burndown	A	5.3 a
	Sharpen	1	oz/a	Burndown	A	
	AMS	17	lb/100 gal	Burndown	A	
	Roundup Original	32	oz/a	MPOST	C	
	AMS	17	lb/100 gal	MPOST	C	

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Description					Velvetleaf
Rating Date					07-30-09
Rating Type					Density
Rating Unit					m <sup>2</sup> RunCH
Days After First/Last Applic.					77 23
Trt-Eval Interval					
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code
					23
9	Roundup Original	16	oz/a	Burndown	A
	AMS	17	lb/100 gal	Burndown	A
	Roundup Original	32	oz/a	MPOST	C
	AMS	17	lb/100 gal	MPOST	C
LSD (P=.05)					3.72
Standard Deviation					2.15
CV					57.46
Grand Mean					3.74
Bartlett's X <sup>2</sup>					4.215
P(Bartlett's X <sup>2</sup> )					0.755
Replicate F					0.585
Replicate Prob(F)					0.5685
Treatment F					1.890
Treatment Prob(F)					0.1326

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Location: Concord, NE      Study Director:  
Project ID: MTRI 06 US NE 09 01PWR      Investigator: Stevan Knezevic  
Sponsor Contact:

Rating Unit

% = percent

Percent = percent

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Location: Concord, NE

Study Director:

Project ID: MTRI 06 US NE 09 01PWR

Investigator: Stevan Knezevic

Sponsor Contact:

Description						Kruger SB	Kruger SB	Pioneer SB	Pioneer SB	Tansy Mustard	Tansy Mustard	
Rating Date						11-07-09	11-07-09	11-07-09	11-07-09	05-25-09	06-30-09	
Rating Type						Yield@13.0%	Moisture	Yield@13.0%	Moisture	Control	Control	
Rating Unit						bu/A	%	bu/A	%	Percent	Percent	
Days After First/Last Applic.						177 123	177 123	177 123	177 123	11 11	47 47	
Trt-Eval Interval												
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Plot	1	2	3	4	5	6
1	Nontreated Check					101	1.000	13.520	0.310	13.530	0.0	0.0
						209	9.670	13.390	0.260	13.520	0.0	0.0
						303	0.370	13.520	0.210	13.520	0.0	0.0
						Mean =	3.680	13.477	0.260	13.523	0.0	0.0
2	KFD 49-01	3 oz/a		Burndown	A	102	35.060	10.980	34.920	11.890	50.0	25.0
	KFD 51-01	12 oz/a		Burndown	A	208	30.160	11.410	27.560	10.610	30.0	25.0
	AMS	1 % ai/v		Burndown	A	304	38.980	10.790	40.720	11.830	35.0	70.0
	KFD 51-01	48 oz/a		8" weeds	B							
	AMS	1 % ai/v		8" weeds	B							
						Mean =	34.733	11.060	34.400	11.443	38.3	40.0
3	KFD 49-01	6 oz/a		Burndown	A	103	41.570	10.920	47.090	11.620		
	KFD 51-01	12 oz/a		Burndown	A	205	33.220	11.000	33.410	11.340	30.0	90.0
	AMS	1 % ai/v		Burndown	A	301	42.600	11.040	40.230	11.740	50.0	80.0
	KFD 51-01	48 oz/a		8" weeds	B							
	AMS	1 % ai/v		8" weeds	B							
						Mean =	39.130	10.987	40.243	11.567	40.0	85.0
4	KFD 49-01	3 oz/a		Burndown	A	104	41.990	10.720	41.380	11.560	50.0	95.0
	KFD 51-01	18 oz/a		Burndown	A	206	38.460	11.000	41.470	11.250	35.0	90.0
	AMS	1 % ai/v		Burndown	A	302	34.470	10.980	36.070	11.830	50.0	99.0
	KFD 51-01	48 oz/a		8" weeds	B							
	AMS	1 % ai/v		8" weeds	B							
						Mean =	38.307	10.900	39.640	11.547	45.0	94.7
5	KFD 49-01	6 oz/a		Burndown	A	105	34.880	11.030	37.750	11.390	50.0	95.0
	KFD 51-01	18 oz/a		Burndown	A	203	36.490	10.800	44.040	11.510	60.0	99.0
	AMS	1 % ai/v		Burndown	A	307	40.100	11.080	42.460	11.210	40.0	99.0
	KFD 51-01	48 oz/a		8" weeds	B							
	AMS	1 % ai/v		8" weeds	B							
						Mean =	37.157	10.970	41.417	11.370	50.0	97.7
6	Extreme	2 pt/a		Burndown	A	106	37.810	11.010	40.840	11.230	90.0	99.0
	Prowl H2O	2 pt/a		Burndown	A	207	33.490	11.130	27.890	10.780	80.0	99.0
	AMS	17 lb/100 gal		Burndown	A	305	30.630	10.980	40.130	11.240	30.0	99.0
	Roundup Original	32 oz/a		MPOST	C							
	AMS	17 lb/100 gal		MPOST	C							
						Mean =	33.977	11.040	36.287	11.083	66.7	99.0

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Description						Kruger SB	Kruger SB	Pioneer SB	Pioneer SB	Tansy Mustard	Tansy Mustard	
Rating Date						11-07-09	11-07-09	11-07-09	11-07-09	05-25-09	06-30-09	
Rating Type						Yield@13.0%	Moisture	Yield@13.0%	Moisture	Control	Control	
Rating Unit						bu/A	%	bu/A	%	Percent	Percent	
Days After First/Last Applic.						177 123	177 123	177 123	177 123	11 11	47 47	
Trt-Eval Interval												
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Plot	1	2	3	4	5	6
7	Prowl H2O	2	pt/a	Burndown	A	107	39.000	11.110	36.700	11.330	99.0	99.0
	Optill	2	oz/a	Burndown	A	204	36.670	10.620	45.810	11.710	99.0	99.0
	Roundup Original	16	oz/a	Burndown	A	306	35.140	11.060	40.350	11.360	90.0	99.0
	AMS	17	lb/100 gal	Burndown	A							
	Roundup Original	32	oz/a	MPOST	C							
	AMS	17	lb/100 gal	MPOST	C							
						Mean =	36.937	10.930	40.953	11.467	96.0	99.0
8	Extreme	2	pt/a	Burndown	A	108	41.260	11.120	42.150	11.310	99.0	99.0
	Sharpen	1	oz/a	Burndown	A	202	38.250	10.970	40.150	11.800	99.0	99.0
	AMS	17	lb/100 gal	Burndown	A	309	32.450	11.030	41.270	11.220	99.0	99.0
	Roundup Original	32	oz/a	MPOST	C							
	AMS	17	lb/100 gal	MPOST	C							
						Mean =	37.320	11.040	41.190	11.443	99.0	99.0
9	Roundup Original	16	oz/a	Burndown	A	109	34.340	11.160	39.290	11.080	90.0	99.0
	AMS	17	lb/100 gal	Burndown	A	201	42.340	11.010	45.060	11.820	80.0	99.0
	Roundup Original	32	oz/a	MPOST	C	308	37.010	11.110	31.040	11.040	80.0	99.0
	AMS	17	lb/100 gal	MPOST	C							
						Mean =	37.897	11.093	38.463	11.313	83.3	99.0

Description						Tansy Mustard	Tansy Mustard	Dandelion	Dandelion	Dandelion	Dandelion	Marestail	Marestail	
Rating Date						07-30-09	07-30-09	05-25-09	06-30-09	07-30-09	07-30-09	05-25-09	06-30-09	
Rating Type						Control	Density	Control	Control	Control	Density	Control	Control	
Rating Unit						Percent	m2 RunCH	Percent	Percent	Percent	m2 RunCH	Percent	Percent	
Days After First/Last Applic.						77 23	77 23	11 11	47 47	77 23	77 23	11 11	47 47	
Trt-Eval Interval														
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Plot	7	8	9	10	11	12	13	14
1	Nontreated Check					101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
						209	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
						303	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	0.0	0.0
2	KFD 49-01	3 oz/a		Burndown	A	102	99.0	2.0	60.0	50.0	98.0	4.0	50.0	70.0
	KFD 51-01	12 oz/a		Burndown	A	208	99.0	2.0	40.0	70.0	98.0	3.0	40.0	65.0
	AMS	1 % ai/v		Burndown	A	304	99.0	3.0	45.0	75.0	99.0	5.0	45.0	75.0
	KFD 51-01	48 oz/a		8" weeds	B									
	AMS	1 % ai/v		8" weeds	B									
						Mean =	99.0	2.3	48.3	65.0	98.3	4.0	45.0	70.0
3	KFD 49-01	6 oz/a		Burndown	A	103			75.0	80.0	99.0	5.0	50.0	80.0
	KFD 51-01	12 oz/a		Burndown	A	205	99.0	2.0	50.0	50.0	99.0	8.0	60.0	50.0
	AMS	1 % ai/v		Burndown	A	301	99.0	3.0	50.0	70.0	99.0	8.0	50.0	75.0
	KFD 51-01	48 oz/a		8" weeds	B									
	AMS	1 % ai/v		8" weeds	B									
						Mean =	99.0	2.5	58.3	66.7	99.0	7.0	53.3	68.3
4	KFD 49-01	3 oz/a		Burndown	A	104	99.0	4.0	60.0	80.0	99.0	10.0	50.0	95.0
	KFD 51-01	18 oz/a		Burndown	A	206	99.0	1.0	60.0	85.0	99.0	7.0	60.0	90.0
	AMS	1 % ai/v		Burndown	A	302	99.0	3.0	60.0	60.0	99.0	4.0	60.0	75.0
	KFD 51-01	48 oz/a		8" weeds	B									
	AMS	1 % ai/v		8" weeds	B									
						Mean =	99.0	2.7	60.0	75.0	99.0	7.0	56.7	86.7
5	KFD 49-01	6 oz/a		Burndown	A	105	99.0	2.0	70.0	80.0	99.0	8.0	70.0	95.0
	KFD 51-01	18 oz/a		Burndown	A	203	99.0	1.0	60.0	95.0	99.0	5.0	70.0	90.0
	AMS	1 % ai/v		Burndown	A	307	99.0	5.0	45.0	85.0	99.0	5.0	70.0	99.0
	KFD 51-01	48 oz/a		8" weeds	B									
	AMS	1 % ai/v		8" weeds	B									
						Mean =	99.0	2.7	58.3	86.7	99.0	6.0	70.0	94.7
6	Extreme	2 pt/a		Burndown	A	106	99.0	3.0	60.0	85.0	99.0	5.0	80.0	99.0
	Prowl H2O	2 pt/a		Burndown	A	207	99.0	2.0	35.0	70.0	99.0	6.0	60.0	90.0
	AMS	17 lb/100 gal		Burndown	A	305	99.0	2.0	30.0	50.0	99.0	5.0	50.0	99.0
	Roundup Original	32 oz/a		MPOST	C									
	AMS	17 lb/100 gal		MPOST	C									
						Mean =	99.0	2.3	41.7	68.3	99.0	5.3	63.3	96.0

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Description						Tansy Mustard	Tansy Mustard	Dandelion	Dandelion	Dandelion	Dandelion	Marestail	Marestail	
Rating Date						07-30-09	07-30-09	05-25-09	06-30-09	07-30-09	07-30-09	05-25-09	06-30-09	
Rating Type						Control	Density	Control	Control	Control	Density	Control	Control	
Rating Unit						Percent	m2 RunCH	Percent	Percent	Percent	m2 RunCH	Percent	Percent	
Days After First/Last Applic.						77 23	77 23	11 11	47 47	77 23	77 23	11 11	47 47	
Trt-Eval Interval														
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Plot	7	8	9	10	11	12	13	14
7	Prowl H2O	2 pt/a		Burndown	A	107	99.0	1.0	99.0	90.0	99.0	3.0	99.0	99.0
	Optill	2 oz/a		Burndown	A	204	99.0	2.0	99.0	95.0	99.0	6.0	99.0	90.0
	Roundup Original	16 oz/a		Burndown	A	306	99.0	3.0	90.0	75.0	99.0	4.0	90.0	90.0
	AMS	17 lb/100 gal		Burndown	A									
	Roundup Original	32 oz/a		MPOST	C									
	AMS	17 lb/100 gal		MPOST	C									
						Mean =	99.0	2.0	96.0	86.7	99.0	4.3	96.0	93.0
8	Extreme	2 pt/a		Burndown	A	108	99.0	1.0	99.0	95.0	99.0	4.0	99.0	99.0
	Sharpen	1 oz/a		Burndown	A	202	99.0	5.0	99.0	85.0	99.0	6.0	99.0	99.0
	AMS	17 lb/100 gal		Burndown	A	309	99.0	3.0	99.0	92.0	99.0	4.0	99.0	99.0
	Roundup Original	32 oz/a		MPOST	C									
	AMS	17 lb/100 gal		MPOST	C									
						Mean =	99.0	3.0	99.0	90.7	99.0	4.7	99.0	99.0
9	Roundup Original	16 oz/a		Burndown	A	109	99.0	1.0	30.0	50.0	99.0	3.0	90.0	99.0
	AMS	17 lb/100 gal		Burndown	A	201	99.0	1.0	30.0	60.0	99.0	4.0	90.0	99.0
	Roundup Original	32 oz/a		MPOST	C	308	99.0	2.0	30.0	60.0	99.0	6.0	60.0	
	AMS	17 lb/100 gal		MPOST	C									
						Mean =	99.0	1.3	30.0	56.7	99.0	4.3	80.0	99.0



Description							Marestail	Marestail	Green foxtail	Green foxtail	Green foxtail	Velvetleaf	Velvetleaf	Velvetleaf
Rating Date							07-30-09	07-30-09	06-30-09	07-30-09	07-30-09	05-25-09	06-30-09	07-30-09
Rating Type							Control	Density	Control	Control	Density	Control	Control	Control
Rating Unit							Percent	m2 RunCH	Percent	Percent	m2 RunCH	Percent	Percent	Percent
Days After First/Last Applic.							77 23	77 23	47 47	77 23	77 23	11 11	47 47	77 23
Trt-Eval Interval														
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Plot	15	16	17	18	19	20	21	22
1	Nontreated Check					101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
						209	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
						303	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	0.0	0.0
2	KFD 49-01	3 oz/a		Burndown	A	102	99.0	4.0	10.0	99.0	15.0	70.0	10.0	99.0
	KFD 51-01	12 oz/a		Burndown	A	208	99.0	2.0	10.0	99.0	10.0	60.0	10.0	99.0
	AMS	1 % ai/v		Burndown	A	304	99.0	3.0	10.0	99.0	10.0	60.0	10.0	99.0
	KFD 51-01	48 oz/a		8" weeds	B									
	AMS	1 % ai/v		8" weeds	B									
						Mean =	99.0	3.0	10.0	99.0	11.7	63.3	10.0	99.0
3	KFD 49-01	6 oz/a		Burndown	A	103	99.0	5.0	10.0	99.0	5.0	70.0	25.0	99.0
	KFD 51-01	12 oz/a		Burndown	A	205	99.0	3.0	10.0	99.0	8.0	80.0	20.0	99.0
	AMS	1 % ai/v		Burndown	A	301	99.0	3.0	10.0	99.0	6.0	75.0	25.0	99.0
	KFD 51-01	48 oz/a		8" weeds	B									
	AMS	1 % ai/v		8" weeds	B									
						Mean =	99.0	3.7	10.0	99.0	6.3	75.0	23.3	99.0
4	KFD 49-01	3 oz/a		Burndown	A	104	99.0	8.0	10.0	99.0	15.0	50.0	50.0	99.0
	KFD 51-01	18 oz/a		Burndown	A	206	99.0	2.0	10.0	99.0	10.0	80.0	20.0	99.0
	AMS	1 % ai/v		Burndown	A	302	99.0	3.0	10.0	99.0	10.0	75.0	25.0	99.0
	KFD 51-01	48 oz/a		8" weeds	B									
	AMS	1 % ai/v		8" weeds	B									
						Mean =	99.0	4.3	10.0	99.0	11.7	68.3	31.7	99.0
5	KFD 49-01	6 oz/a		Burndown	A	105	99.0	4.0	10.0	99.0	5.0	70.0	50.0	99.0
	KFD 51-01	18 oz/a		Burndown	A	203	99.0	2.0	10.0	99.0	5.0	90.0	30.0	99.0
	AMS	1 % ai/v		Burndown	A	307	99.0	3.0	30.0	99.0	18.0	80.0	40.0	99.0
	KFD 51-01	48 oz/a		8" weeds	B									
	AMS	1 % ai/v		8" weeds	B									
						Mean =	99.0	3.0	16.7	99.0	9.3	80.0	40.0	99.0
6	Extreme	2 pt/a		Burndown	A	106	99.0	3.0	90.0	99.0	5.0	99.0	90.0	99.0
	Prowl H2O	2 pt/a		Burndown	A	207	99.0	2.0	99.0	99.0	10.0	85.0	99.0	99.0
	AMS	17 lb/100 gal		Burndown	A	305	99.0	6.0	99.0	99.0	10.0	70.0	95.0	99.0
	Roundup Original	32 oz/a		MPOST	C									
	AMS	17 lb/100 gal		MPOST	C									
						Mean =	99.0	3.7	96.0	99.0	8.3	84.7	94.7	99.0

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Description						Marestail	Marestail	Green foxtail	Green foxtail	Green foxtail	Velvetleaf	Velvetleaf	Velvetleaf	
Rating Date						07-30-09	07-30-09	06-30-09	07-30-09	07-30-09	05-25-09	06-30-09	07-30-09	
Rating Type						Control	Density	Control	Control	Density	Control	Control	Control	
Rating Unit						Percent	m2 RunCH	Percent	Percent	m2 RunCH	Percent	Percent	Percent	
Days After First/Last Applic.						77 23	77 23	47 47	77 23	77 23	11 11	47 47	77 23	
Trt-Eval Interval														
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Plot	15	16	17	18	19	20	21	22
7	Prowl H2O	2 pt/a		Burndown	A	107	99.0	2.0	90.0	99.0	10.0	99.0	90.0	99.0
	Optill	2 oz/a		Burndown	A	204	99.0	3.0	95.0	99.0	20.0	99.0	85.0	99.0
	Roundup Original	16 oz/a		Burndown	A	306	99.0	2.0	99.0	99.0	15.0	99.0	99.0	99.0
	AMS	17 lb/100 gal		Burndown	A									
	Roundup Original	32 oz/a		MPOST	C									
	AMS	17 lb/100 gal		MPOST	C									
						Mean =	99.0	2.3	94.7	99.0	15.0	99.0	91.3	99.0
8	Extreme	2 pt/a		Burndown	A	108	99.0	2.0	70.0	99.0	15.0	99.0	70.0	99.0
	Sharpen	1 oz/a		Burndown	A	202	99.0	3.0	90.0	99.0	10.0	95.0	70.0	99.0
	AMS	17 lb/100 gal		Burndown	A	309	99.0	6.0	88.0	99.0	20.0	99.0	95.0	99.0
	Roundup Original	32 oz/a		MPOST	C									
	AMS	17 lb/100 gal		MPOST	C									
						Mean =	99.0	3.7	82.7	99.0	15.0	97.7	78.3	99.0
9	Roundup Original	16 oz/a		Burndown	A	109	99.0	4.0	10.0	99.0	25.0	90.0	0.0	99.0
	AMS	17 lb/100 gal		Burndown	A	201	99.0	3.0	10.0	99.0	10.0	90.0	0.0	99.0
	Roundup Original	32 oz/a		MPOST	C	308	99.0	1.0	10.0	99.0	15.0	60.0	0.0	99.0
	AMS	17 lb/100 gal		MPOST	C									
						Mean =	99.0	2.7	10.0	99.0	16.7	80.0	0.0	99.0

Description							Velvetleaf
Rating Date							07-30-09
Rating Type							Density
Rating Unit							m2 RunCH
Days After First/Last Applic.							77 23
Trt-Eval Interval							
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Plot	23
1	Nontreated Check					101	0.0
						209	0.0
						303	0.0
						Mean =	0.0
2	KFD 49-01	3	oz/a	Burndown	A	102	3.0
	KFD 51-01	12	oz/a	Burndown	A	208	10.0
	AMS	1	% ai/v	Burndown	A	304	4.0
	KFD 51-01	48	oz/a	8" weeds	B		
	AMS	1	% ai/v	8" weeds	B		
						Mean =	5.7
3	KFD 49-01	6	oz/a	Burndown	A	103	6.0
	KFD 51-01	12	oz/a	Burndown	A	205	3.0
	AMS	1	% ai/v	Burndown	A	301	2.0
	KFD 51-01	48	oz/a	8" weeds	B		
	AMS	1	% ai/v	8" weeds	B		
						Mean =	3.7
4	KFD 49-01	3	oz/a	Burndown	A	104	3.0
	KFD 51-01	18	oz/a	Burndown	A	206	4.0
	AMS	1	% ai/v	Burndown	A	302	2.0
	KFD 51-01	48	oz/a	8" weeds	B		
	AMS	1	% ai/v	8" weeds	B		
						Mean =	3.0
5	KFD 49-01	6	oz/a	Burndown	A	105	2.0
	KFD 51-01	18	oz/a	Burndown	A	203	3.0
	AMS	1	% ai/v	Burndown	A	307	6.0
	KFD 51-01	48	oz/a	8" weeds	B		
	AMS	1	% ai/v	8" weeds	B		
						Mean =	3.7
6	Extreme	2	pt/a	Burndown	A	106	2.0
	Prowl H2O	2	pt/a	Burndown	A	207	5.0
	AMS	17	lb/100 gal	Burndown	A	305	2.0
	Roundup Original	32	oz/a	MPOST	C		
	AMS	17	lb/100 gal	MPOST	C		
						Mean =	3.0

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Description						Velvetleaf
Rating Date						07-30-09
Rating Type						Density
Rating Unit						m <sup>2</sup> RunCH
Days After First/Last Applic.						77 23
Trt-Eval Interval						
Trt No.	Treatment Name	Rate	Unit	Growth Stage	Appl Code	Plot
						23
7	Prowl H2O	2	pt/a	Burndown	A	107
	Optill	2	oz/a	Burndown	A	204
	Roundup Original	16	oz/a	Burndown	A	306
	AMS	17	lb/100 gal	Burndown	A	
	Roundup Original	32	oz/a	MPOST	C	
	AMS	17	lb/100 gal	MPOST	C	
Mean =						5.0
8	Extreme	2	pt/a	Burndown	A	108
	Sharpen	1	oz/a	Burndown	A	202
	AMS	17	lb/100 gal	Burndown	A	309
	Roundup Original	32	oz/a	MPOST	C	
	AMS	17	lb/100 gal	MPOST	C	
Mean =						5.3
9	Roundup Original	16	oz/a	Burndown	A	109
	AMS	17	lb/100 gal	Burndown	A	201
	Roundup Original	32	oz/a	MPOST	C	308
	AMS	17	lb/100 gal	MPOST	C	
Mean =						4.3

Northeast Research & Extension Center

2009 Preplant Burndown and Post Emergent Weed Control In Soybeans with KFD compounds

Trial ID: 09 SRR-5 UPI KFD Soy BD      Protocol ID: 09 SRR-5 UPI KFD Soy BD  
Location: Concord, NE      Study Director:  
Project ID: MTRI 06 US NE 09 01PWR      Investigator: Stevan Knezevic  
Sponsor Contact:

Rating Unit

% = percent

Percent = percent