

Northeast Research & Extension Center

2009 BAS Saflufenacil Soybean Preplant Burndown Efficacy and Tolerance

Trial ID: 09HD91A1.0 SB Burndown	Protocol ID: 09HD91A1.0 SB Burndown
Location: Concord, NE	Study Director: Stevan Knezevic
Project ID:	Investigator: Stevan Knezevic
	Sponsor Contact:

General Trial Information

Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trial Status: F one-year/final

Trial Location

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

Personnel

Study Director: Stevan Knezevic
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 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)
	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 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: THLSS *Thlaspi* sp.
Common Name: Pennycress

Pest 2 Type: W Code: DESPI *Descurainia pinnata*
Common Name: Pinnate tansymustard

Pest 3 Type: W Code: TAROF *Taraxacum officinale*
Common Name: Common dandelion

Pest 4 Type: W Code: ERICA *Conyza canadensis*
Common Name: Canada horseweed

Pest 5 Type: W Code: BROTE *Bromus tectorum*
Common Name: Downy brome

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Pest 6 Type: W Code: ABUTH Abutilon theophrasti
Common Name: Velvetleaf

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 L 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 Code	Tank Mix
1.	07-01-09	Roundup Powermax	5.5	lbai/ga	SL	28	OZ/A	N	no

Comment: Applied Maintenance to treated 10 by 30 plot only (not running checks). Also did put on the nontreated check treatment. Soybean 3T; 6 in height.

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
Application Date:	04-22-09	05-07-09
Time of Day:	10 am	4:30 pm
Application Method:	spray	spray
Application Timing:	36 EPP	21 EPP
Application Placement:	foliar	foliar
Applied By:	js	js
Air Temperature, Unit:	60 F	73 F
% Relative Humidity:	33	55
Wind Velocity, Unit:	2 mph	4 mph
Wind Direction:	NE	N
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	45 F	64 F
Soil Moisture:	adequate	adequate
% Cloud Cover:	0	20

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Crop 2 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY

Pest Stage At Each Application

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	A		B	
Pest 1 Code, Type, Scale:	THLSS	W	THLSS	W
Height, Unit:	2	in	8	in
Height Minimum, Maximum:	1	3	4	12
Density, Unit:	5	m2	5	m2
Pest 2 Code, Type, Scale:	DESPI	W	DESPI	W
Height, Unit:	2	in	4	in
Height Minimum, Maximum:	1	3	2	6
Density, Unit:	5	m2	5	m2
Pest 3 Code, Type, Scale:	TAROF	W	TAROF	W
Diameter, Unit:			4	in
Height, Unit:			1.5	in
Height Minimum, Maximum:			1	2
Density, Unit:			1	m2
Pest 4 Code, Type, Scale:	ERICA	W	ERICA	W
Height, Unit:			1.5	in
Height Minimum, Maximum:			1	2
Density, Unit:			1	m2
Pest 5 Code, Type, Scale:	BROTE	W	BROTE	W
Height, Unit:			5	in
Height Minimum, Maximum:			4	6
Density, Unit:			1	m2
Pest 6 Code, Type, Scale:	ABUTH	W	ABUTH	W
Stage Majority, Percent:			10	
Height, Unit:			0.5	in
Height Minimum, Maximum:			0.25	0.75
Density, Unit:			1	m2

Application Equipment

	A		B	
Appl. Equipment:	BACKPACK		BACKPACK	
Operating Pressure, Unit:	36	PSI	40	PSI
Nozzle Type:	TURBO TEE		TURBO TEE	
Nozzle Size:	11002		11002	
Nozzle Spacing, Unit:	20	IN	20	IN
Boom Length, Unit:	10	FT	10	FT
Boom Height, Unit:	12	IN	12	IN
Ground Speed, Unit:	2.5 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	

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Trial ID: 09HD91A1.0 SB Burndown Protocol ID: 09HD91A1.0 SB Burndown
 Location: Concord, NE Study Director: Stevan Knezevic
 Project ID: Investigator: Stevan Knezevic
 Sponsor Contact:

Description							Kruger SB	Kruger SB	Kruger SB	Pioneer SB	Pioneer SB	Pioneer SB	
Rating Date							11-07-09	11-07-09	11-07-09	11-07-09	11-07-09	11-07-09	
Rating Type							Yield@13%	Moisture	Test WT	Yield@13%	Moisture	Test WT	
Rating Unit							bu/A	%	lb/bu	bu/A	%	lb/bu	
Days After First/Last Applic.							199 184	199 184	199 184	199 184	199 184	199 184	
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	5	6
1	Nontreated Check							33.560 cd	10.897 a	48.213 d	30.973 e	11.307 a	51.190 d
2	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP B		47.453 a	10.943 a	60.583 abc	49.220 ab	11.377 a	60.740 bc
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
3	Roundup Original	32 oz/a		840 g a/ha		21 EPP B		48.243 a	10.987 a	61.137 abc	45.933 abc	11.343 a	60.543 bc
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
4	Roundup Original	32 oz/a		840 g a/ha		21 EPP B		46.990 a	11.043 a	59.667 abc	49.083 ab	11.370 a	59.943 bc
	2,4-D LV4	15.8 oz/a		526 g a/ha		21 EPP B							
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
5	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP B		50.660 a	11.037 a	61.893 a	50.770 ab	11.193 a	60.860 ab
	Roundup Original	32 oz/a		840 g a/ha		21 EPP B							
	2,4-D LV4	15.8 oz/a		526 g a/ha		21 EPP B							
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
6	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		36 EPP A		42.827 abc	11.060 a	57.083 c	39.457 cde	11.267 a	58.415 c
	Roundup Original	32 oz/a		840 g a/ha		36 EPP A							
	MSO	1 % v/v				36 EPP A							
	Ammonium Sulfate	17 lb/100 gal				36 EPP A							
7	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP B		47.547 a	11.047 a	60.900 abc	49.173 ab	11.220 a	60.423 bc
	Roundup Original	32 oz/a		840 g a/ha		21 EPP B							
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
8	Sharpen (BAS 80004)	2 oz/a		50 g a/ha		36 EPP A		45.407 ab	11.037 a	61.220 abc	44.463 abc	11.157 a	63.130 a
	Roundup Original	32 oz/a		840 g a/ha		36 EPP A							
	MSO	1 % v/v				36 EPP A							
	Ammonium Sulfate	17 lb/100 gal				36 EPP A							
9	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP B		43.663 ab	11.180 a	60.503 abc	45.930 abc	11.640 a	59.867 bc
	PROWL H2O	48 oz/a		1600 g a/ha		21 EPP B							
	Roundup Original	32 oz/a		840 g a/ha		21 EPP B							
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
10	Valor	2 oz/a		71.4 g a/ha		21 EPP B		44.947 ab	11.093 a	60.860 abc	44.817 abc	11.590 a	58.990 bc
	Roundup Original	32 oz/a		840 g a/ha		21 EPP B							
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
11	OPTILL (BAS 80400)	2 oz/a		95 g a/ha		21 EPP B		47.297 a	11.073 a	60.743 abc	52.733 a	11.643 a	60.663 bc
	Roundup Original	32 oz/a		840 g a/ha		21 EPP B							
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
12	OPTILL (BAS 80400)	2 oz/a		95 g a/ha		21 EPP B		43.533 ab	11.077 a	59.867 abc	45.990 abc	11.783 a	60.143 bc
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
13	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP B		44.080 ab	11.017 a	59.867 abc	47.527 abc	11.570 a	60.183 bc
	SENCOR	0.75 lb/a		630 g a/ha		21 EPP B							
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							

Northeast Research & Extension Center

Description								Kruger SB	Kruger SB	Kruger SB	Pioneer SB	Pioneer SB	Pioneer SB
Rating Date								11-07-09	11-07-09	11-07-09	11-07-09	11-07-09	11-07-09
Rating Type								Yield@13%	Moisture	Test WT	Yield@13%	Moisture	Test WT
Rating Unit								bu/A	%	lb/bu	bu/A	%	lb/bu
Days After First/Last Applic.								199 184	199 184	199 184	199 184	199 184	199 184
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	5	6
14	Sharpen (BAS 80004)	1	oz/a	25	g a/ha	21 EPP	B	42.360 abc	11.020 a	61.280 ab	50.260 ab	11.340 a	60.463 bc
	Ignite 280 SL	32	oz/a	655	g a/ha	21 EPP	B						
	MSO	1	% v/v			21 EPP	B						
	Ammonium Sulfate	17	lb/100 gal			21 EPP	B						
15	Sharpen (BAS 80004)	1	oz/a	25	g a/ha	21 EPP	B	36.287 bcd	11.207 a	57.700 bc	42.023 bcd	11.277 a	59.845 bc
	Gramoxone Inteon	48	oz/a	840	g a/ha	21 EPP	B						
	MSO	1	% v/v			21 EPP	B						
	Ammonium Sulfate	17	lb/100 gal			21 EPP	B						
16	Ignite 280 SL	32	oz/a	655	g a/ha	21 EPP	B	49.347 a	11.070 a	61.140 abc	51.283 a	11.247 a	60.743 bc
	MSO	1	% v/v			21 EPP	B						
	Ammonium Sulfate	17	lb/100 gal			21 EPP	B						
17	Gramoxone Inteon	48	oz/a	840	g a/ha	21 EPP	B	31.667 d	10.940 a	49.640 d	34.477 de	11.373 a	50.240 d
	MSO	1	% v/v			21 EPP	B						
	Ammonium Sulfate	17	lb/100 gal			21 EPP	B						
LSD (P=.05)								9.5347	0.2122	4.1794	8.8539	0.4033	2.3394
Standard Deviation								5.7187	0.1273	2.4993	5.3104	0.2419	1.3936
CV								13.03	1.15	4.24	11.66	2.12	2.35
Grand Mean								43.87	11.04	58.96	45.54	11.39	59.2
Bartlett's X2								18.592	33.283	44.851	19.289	35.812	30.665
P(Bartlett's X2)								0.29	0.007*	0.001*	0.254	0.003*	0.006*
Replicate F								1.878	3.512	0.036	1.119	0.508	0.333
Replicate Prob(F)								0.1694	0.0418	0.9642	0.3391	0.6065	0.7201
Treatment F								2.654	1.136	7.618	3.748	1.719	17.221
Treatment Prob(F)								0.0092	0.3665	0.0001	0.0007	0.0939	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.

Description								Soybean	Soybean	Brome	Brome	Tansy Mustard	Tansy Mustard
Rating Date								06-18-09	06-30-09	05-29-09	06-30-09	05-29-09	06-30-09
Rating Type								Injury	Injury	Control	Control	Control	Control
Rating Unit								%	%	Percent	Percent	Percent	Percent
Days After First/Last Applic.								57 42	69 54	37 22	69 54	37 22	69 54
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	7	8	9	10	11	12
1	Nontreated Check							0.0 a	0.0 a	0.0 d	0.0 d	0.0 b	0.0 c
2	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP B		0.0 a	0.0 a	3.3 d	16.7 c	99.0 a	86.3 ab
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
3	Roundup Original	32 oz/a		840 g a/ha		21 EPP B		0.0 a	0.0 a	99.0 a	99.0 a	99.0 a	99.0 a
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
4	Roundup Original	32 oz/a		840 g a/ha		21 EPP B		0.0 a	0.0 a	99.0 a	99.0 a	99.0 a	99.0 a
	2,4-D LV4	15.8 oz/a		526 g a/ha		21 EPP B							
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
5	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP B		0.0 a	0.0 a	99.0 a	99.0 a	99.0 a	99.0 a
	Roundup Original	32 oz/a		840 g a/ha		21 EPP B							
	2,4-D LV4	15.8 oz/a		526 g a/ha		21 EPP B							
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
6	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		36 EPP A		0.0 a	0.0 a	99.0 a	99.0 a	99.0 a	99.0 a
	Roundup Original	32 oz/a		840 g a/ha		36 EPP A							
	MSO	1 % v/v				36 EPP A							
	Ammonium Sulfate	17 lb/100 gal				36 EPP A							
7	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP B		0.0 a	0.0 a	99.0 a	99.0 a	99.0 a	99.0 a
	Roundup Original	32 oz/a		840 g a/ha		21 EPP B							
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
8	Sharpen (BAS 80004)	2 oz/a		50 g a/ha		36 EPP A		0.0 a	0.0 a	99.0 a	99.0 a	99.0 a	99.0 a
	Roundup Original	32 oz/a		840 g a/ha		36 EPP A							
	MSO	1 % v/v				36 EPP A							
	Ammonium Sulfate	17 lb/100 gal				36 EPP A							
9	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP B		0.0 a	0.0 a	99.0 a	99.0 a	99.0 a	99.0 a
	PROWL H2O	48 oz/a		1600 g a/ha		21 EPP B							
	Roundup Original	32 oz/a		840 g a/ha		21 EPP B							
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
10	Valor	2 oz/a		71.4 g a/ha		21 EPP B		0.0 a	0.0 a	97.7 ab	99.0 a	99.0 a	99.0 a
	Roundup Original	32 oz/a		840 g a/ha		21 EPP B							
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
11	OPTILL (BAS 80400)	2 oz/a		95 g a/ha		21 EPP B		0.0 a	0.0 a	99.0 a	99.0 a	99.0 a	99.0 a
	Roundup Original	32 oz/a		840 g a/ha		21 EPP B							
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
12	OPTILL (BAS 80400)	2 oz/a		95 g a/ha		21 EPP B		0.0 a	0.0 a	16.7 c	20.0 c	99.0 a	99.0 a
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
13	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP B		0.0 a	0.0 a	3.3 d	16.7 c	99.0 a	99.0 a
	SENCOR	0.75 lb/a		630 g a/ha		21 EPP B							
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							

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Description							Soybean	Soybean	Brome	Brome	Tansy Mustard	Tansy Mustard		
Rating Date							06-18-09	06-30-09	05-29-09	06-30-09	05-29-09	06-30-09		
Rating Type							Injury	Injury	Control	Control	Control	Control		
Rating Unit							%	%	Percent	Percent	Percent	Percent		
Days After First/Last Applic.							57	42	69	54	37	22	69	54
Trt-Eval Interval														
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	7	8	9	10	11	12	
14	Sharpen (BAS 80004)	1	oz/a	25	g a/ha	21 EPP	B	0.0 a	0.0 a	96.0 ab	99.0 a	99.0 a	99.0 a	
	Ignite 280 SL	32	oz/a	655	g a/ha	21 EPP	B							
	MSO	1	% v/v			21 EPP	B							
	Ammonium Sulfate	17	lb/100 gal			21 EPP	B							
15	Sharpen (BAS 80004)	1	oz/a	25	g a/ha	21 EPP	B	0.0 a	0.0 a	99.0 a	99.0 a	99.0 a	91.0 a	
	Gramoxone Inteon	48	oz/a	840	g a/ha	21 EPP	B							
	MSO	1	% v/v			21 EPP	B							
	Ammonium Sulfate	17	lb/100 gal			21 EPP	B							
16	Ignite 280 SL	32	oz/a	655	g a/ha	21 EPP	B	0.0 a	0.0 a	99.0 a	99.0 a	99.0 a	99.0 a	
	MSO	1	% v/v			21 EPP	B							
	Ammonium Sulfate	17	lb/100 gal			21 EPP	B							
17	Gramoxone Inteon	48	oz/a	840	g a/ha	21 EPP	B	0.0 a	0.0 a	91.3 b	79.5 b	99.0 a	71.3 b	
	MSO	1	% v/v			21 EPP	B							
	Ammonium Sulfate	17	lb/100 gal			21 EPP	B							
LSD (P=.05)							0.00	0.00	7.29	9.05	0.00	17.35		
Standard Deviation							0.00	0.00	4.36	5.40	0.00	10.41		
CV							0.0	0.0	5.71	6.95	0.0	11.52		
Grand Mean							0.0	0.0	76.37	77.7	93.18	90.33		
Bartlett's X2							0.0	0.0	4.39	5.091	0.0	3.85		
P(Bartlett's X2)							.	.	0.495	0.078	.	0.146		
Replicate F							0.000	0.000	0.887	1.822	0.000	1.934		
Replicate Prob(F)							1.0000	1.0000	0.4231	0.1810	1.0000	0.1611		
Treatment F							0.000	0.000	259.213	143.122	0.000	16.468		
Treatment Prob(F)							1.0000	1.0000	0.0001	0.0001	1.0000	0.0001		

Description								Tansy Mustard	Tansy Mustard	Dandelion	Dandelion	Dandelion	Dandelion
Rating Date								08-03-09	08-03-09	05-29-09	06-30-09	08-03-09	08-03-09
Rating Type								Control	Density	Control	Control	Control	Density
Rating Unit								Percent	m ² RunCH	Percent	Percent	Percent	m ² RunCH
Days After First/Last Applic.								103 88	103 88	37 22	69 54	103 88	103 88
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	13	14	15	16	17	18
1	Nontreated Check							0.0 b	0.0 a	0.0 e	0.0 i	0.0 d	0.0 d
2	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP B		99.0 a	3.3 a	83.0 abc	51.7 ef	98.3 a	6.7 c
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
3	Roundup Original	32 oz/a		840 g a/ha		21 EPP B		99.0 a	3.3 a	88.3 ab	68.3 b-e	98.7 a	10.0 bc
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
4	Roundup Original	32 oz/a		840 g a/ha		21 EPP B		99.0 a	3.3 a	83.3 abc	76.7 a-d	96.0 a	14.3 ab
	2,4-D LV4	15.8 oz/a		526 g a/ha		21 EPP B							
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
5	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP B		99.0 a	4.3 a	99.0 a	83.3 abc	99.0 a	9.7 bc
	Roundup Original	32 oz/a		840 g a/ha		21 EPP B							
	2,4-D LV4	15.8 oz/a		526 g a/ha		21 EPP B							
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
6	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		36 EPP A		99.0 a	2.3 a	71.7 c	41.7 fg	96.7 a	11.0 abc
	Roundup Original	32 oz/a		840 g a/ha		36 EPP A							
	MSO	1 % v/v				36 EPP A							
	Ammonium Sulfate	17 lb/100 gal				36 EPP A							
7	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP B		99.0 a	2.3 a	97.7 ab	68.3 b-e	98.3 a	7.0 c
	Roundup Original	32 oz/a		840 g a/ha		21 EPP B							
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
8	Sharpen (BAS 80004)	2 oz/a		50 g a/ha		36 EPP A		99.0 a	2.0 a	88.7 ab	75.0 a-d	98.7 a	10.0 bc
	Roundup Original	32 oz/a		840 g a/ha		36 EPP A							
	MSO	1 % v/v				36 EPP A							
	Ammonium Sulfate	17 lb/100 gal				36 EPP A							
9	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP B		99.0 a	4.7 a	98.0 a	68.3 b-e	98.3 a	8.3 bc
	PROWL H2O	48 oz/a		1600 g a/ha		21 EPP B							
	Roundup Original	32 oz/a		840 g a/ha		21 EPP B							
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
10	Valor	2 oz/a		71.4 g a/ha		21 EPP B		99.0 a	2.0 a	84.7 abc	56.7 def	96.3 a	12.5 abc
	Roundup Original	32 oz/a		840 g a/ha		21 EPP B							
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
11	OPTILL (BAS 80400)	2 oz/a		95 g a/ha		21 EPP B		99.0 a	3.7 a	99.0 a	89.0 ab	99.0 a	11.7 abc
	Roundup Original	32 oz/a		840 g a/ha		21 EPP B							
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
12	OPTILL (BAS 80400)	2 oz/a		95 g a/ha		21 EPP B		99.0 a	1.3 a	99.0 a	76.7 a-d	98.3 a	16.7 a
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
13	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP B		99.0 a	1.7 a	81.7 bc	66.7 cde	98.7 a	8.3 bc
	SENCOR	0.75 lb/a		630 g a/ha		21 EPP B							
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							

Northeast Research & Extension Center

Description							Tansy Mustard	Tansy Mustard	Dandelion	Dandelion	Dandelion	Dandelion	
Rating Date							08-03-09	08-03-09	05-29-09	06-30-09	08-03-09	08-03-09	
Rating Type							Control	Density	Control	Control	Control	Density	
Rating Unit							Percent	m2 RunCH	Percent	Percent	Percent	m2 RunCH	
Days After First/Last Applic.							103 88	103 88	37 22	69 54	103 88	103 88	
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	13	14	15	16	17	18
14	Sharpen (BAS 80004)	1	oz/a	25	g a/ha	21 EPP	B	99.0 a	3.0 a	99.0 a	93.3 a	98.7 a	12.0 abc
	Ignite 280 SL	32	oz/a	655	g a/ha	21 EPP	B						
	MSO	1	% v/v			21 EPP	B						
	Ammonium Sulfate	17	lb/100 gal			21 EPP	B						
15	Sharpen (BAS 80004)	1	oz/a	25	g a/ha	21 EPP	B	99.0 a	3.3 a	43.3 d	26.7 gh	86.7 b	12.3 abc
	Gramoxone Inteon	48	oz/a	840	g a/ha	21 EPP	B						
	MSO	1	% v/v			21 EPP	B						
	Ammonium Sulfate	17	lb/100 gal			21 EPP	B						
16	Ignite 280 SL	32	oz/a	655	g a/ha	21 EPP	B	99.0 a	4.7 a	99.0 a	85.0 abc	98.0 a	11.7 abc
	MSO	1	% v/v			21 EPP	B						
	Ammonium Sulfate	17	lb/100 gal			21 EPP	B						
17	Gramoxone Inteon	48	oz/a	840	g a/ha	21 EPP	B	99.0 a	2.7 a	36.7 d	10.0 hi	78.3 c	11.7 abc
	MSO	1	% v/v			21 EPP	B						
	Ammonium Sulfate	17	lb/100 gal			21 EPP	B						
LSD (P=.05)							0.00	3.04	16.25	21.21	6.52	6.39	
Standard Deviation							0.00	1.82	9.74	12.72	3.91	3.83	
CV							0.0	64.52	12.25	20.85	4.32	37.5	
Grand Mean							93.18	2.82	79.53	61.02	90.47	10.23	
Bartlett's X2							0.0	13.102	18.088	18.151	59.181	7.643	
P(Bartlett's X2)							.	0.518	0.053	0.20	0.001*	0.907	
Replicate F							0.000	6.399	0.336	1.231	1.641	1.472	
Replicate Prob(F)							1.0000	0.0046	0.7168	0.3054	0.2097	0.2450	
Treatment F							0.000	1.370	24.327	13.634	112.318	2.718	
Treatment Prob(F)							1.0000	0.2180	0.0001	0.0001	0.0001	0.0083	

Northeast Research & Extension Center

Description								Marestail	Marestail	Marestail	Marestail	Pennycress	Velvetleaf	Velvetleaf
Rating Date								05-29-09	06-30-09	08-03-09	08-03-09	05-29-09	05-29-09	06-30-09
Rating Type								Control	Control	Control	Density	Control	Control	Control
Rating Unit								Percent	Percent	Percent	m2 RunCH	Percent	Percent	Percent
Days After First/Last Applic.								37 22	69 54	103 88	103 88	37 22	37 22	69 54
Trt-Eval Interval														
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	19	20	21	22	23	24	25
14	Sharpen (BAS 80004)	1	oz/a	25	g a/ha	21 EPP	B	99.0 a	99.0 a	99.0 a	3.3 a	99.0 a	99.0 a	63.3 abc
	Ignite 280 SL	32	oz/a	655	g a/ha	21 EPP	B							
	MSO	1	% v/v			21 EPP	B							
	Ammonium Sulfate	17	lb/100 gal			21 EPP	B							
15	Sharpen (BAS 80004)	1	oz/a	25	g a/ha	21 EPP	B	99.0 a	96.0 a	99.0 a	2.0 a	99.0 a	99.0 a	65.0 abc
	Gramoxone Inteon	48	oz/a	840	g a/ha	21 EPP	B							
	MSO	1	% v/v			21 EPP	B							
	Ammonium Sulfate	17	lb/100 gal			21 EPP	B							
16	Ignite 280 SL	32	oz/a	655	g a/ha	21 EPP	B	99.0 a	99.0 a	99.0 a	2.7 a	99.0 a	90.0 abc	0.0 d
	MSO	1	% v/v			21 EPP	B							
	Ammonium Sulfate	17	lb/100 gal			21 EPP	B							
17	Gramoxone Inteon	48	oz/a	840	g a/ha	21 EPP	B	99.0 a	73.3 b	99.0 a	2.0 a	99.0 a	83.3 c	0.0 d
	MSO	1	% v/v			21 EPP	B							
	Ammonium Sulfate	17	lb/100 gal			21 EPP	B							
LSD (P=.05)								0.00	11.91	0.00	2.41	0.00	9.49	30.38
Standard Deviation								0.00	7.14	0.00	1.45	0.00	5.69	18.22
CV								0.0	7.93	0.0	66.45	0.0	6.33	37.1
Grand Mean								93.18	90.12	93.18	2.18	93.18	89.82	49.12
Bartlett's X2								0.0	6.71	0.0	17.322	0.0	8.937	18.402
P(Bartlett's X2)								.	0.243	.	0.239	.	0.112	0.104
Replicate F								0.000	0.197	0.000	1.209	0.000	0.721	0.562
Replicate Prob(F)								1.0000	0.8221	1.0000	0.3117	1.0000	0.4938	0.5755
Treatment F								0.000	34.080	0.000	1.178	0.000	52.212	11.015
Treatment Prob(F)								1.0000	0.0001	1.0000	0.3355	1.0000	0.0001	0.0001

Description								Velvetleaf	Velvetleaf	Lambsquarter	Green foxtail	Green foxtail	Green foxtail
Rating Date								08-03-09	08-03-09	05-29-09	06-30-09	08-03-09	08-03-09
Rating Type								Control	Control	Control	Control	Control	Density
Rating Unit								Percent	m2 RunCH	Percent	Percent	Percent	m2 RunCH
Days After First/Last Applic.								103 88	103 88	37 22	69 54	103 88	103 88
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	26	27	28	29	30	31
1	Nontreated Check							0.0 c	0.0 a	0.0 b	0.0 f	0.0 c	0.0 a
2	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP B		99.0 a	5.0 a	99.0 a	23.3 cd	99.0 a	8.3 a
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
3	Roundup Original	32 oz/a		840 g a/ha		21 EPP B		99.0 a	5.0 a	99.0 a	0.0 f	98.7 b	6.3 a
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
4	Roundup Original	32 oz/a		840 g a/ha		21 EPP B		99.0 a	3.3 a	99.0 a	3.3 ef	99.0 a	7.7 a
	2,4-D LV4	15.8 oz/a		526 g a/ha		21 EPP B							
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
5	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP B		99.0 a	4.3 a	99.0 a	20.0 cde	98.7 b	4.3 a
	Roundup Original	32 oz/a		840 g a/ha		21 EPP B							
	2,4-D LV4	15.8 oz/a		526 g a/ha		21 EPP B							
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
6	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		36 EPP A		99.0 a	3.3 a	99.0 a	16.7 def	99.0 a	6.7 a
	Roundup Original	32 oz/a		840 g a/ha		36 EPP A							
	MSO	1 % v/v				36 EPP A							
	Ammonium Sulfate	17 lb/100 gal				36 EPP A							
7	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP B		99.0 a	5.3 a	99.0 a	20.0 cde	99.0 a	10.0 a
	Roundup Original	32 oz/a		840 g a/ha		21 EPP B							
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
8	Sharpen (BAS 80004)	2 oz/a		50 g a/ha		36 EPP A		99.0 a	4.3 a	99.0 a	20.0 cde	99.0 a	13.3 a
	Roundup Original	32 oz/a		840 g a/ha		36 EPP A							
	MSO	1 % v/v				36 EPP A							
	Ammonium Sulfate	17 lb/100 gal				36 EPP A							
9	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP B		99.0 a	3.7 a	99.0 a	94.7 a	99.0 a	5.3 a
	PROWL H2O	48 oz/a		1600 g a/ha		21 EPP B							
	Roundup Original	32 oz/a		840 g a/ha		21 EPP B							
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
10	Valor	2 oz/a		71.4 g a/ha		21 EPP B		99.0 a	3.3 a	99.0 a	76.7 b	99.0 a	10.0 a
	Roundup Original	32 oz/a		840 g a/ha		21 EPP B							
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
11	OPTILL (BAS 80400)	2 oz/a		95 g a/ha		21 EPP B		99.0 a	2.0 a	99.0 a	93.3 ab	99.0 a	10.0 a
	Roundup Original	32 oz/a		840 g a/ha		21 EPP B							
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
12	OPTILL (BAS 80400)	2 oz/a		95 g a/ha		21 EPP B		99.0 a	2.7 a	99.0 a	93.3 ab	99.0 a	6.3 a
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							
13	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP B		99.0 a	4.3 a	99.0 a	35.0 c	99.0 a	6.3 a
	SENCOR	0.75 lb/a		630 g a/ha		21 EPP B							
	MSO	1 % v/v				21 EPP B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP B							

Northeast Research & Extension Center

Description							Velvetleaf	Velvetleaf	Lambsquarter	Green foxtail	Green foxtail	Green foxtail	
Rating Date							08-03-09	08-03-09	05-29-09	06-30-09	08-03-09	08-03-09	
Rating Type							Control	Control	Control	Control	Control	Density	
Rating Unit							Percent	m2 RunCH	Percent	Percent	Percent	m2 RunCH	
Days After First/Last Applic.							103 88	103 88	37 22	69 54	103 88	103 88	
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	26	27	28	29	30	31
14	Sharpen (BAS 80004)	1	oz/a	25	g a/ha	21 EPP B	B	99.0 a	2.3 a	99.0 a	28.3 cd	99.0 a	6.3 a
	Ignite 280 SL	32	oz/a	655	g a/ha	21 EPP B	B						
	MSO	1	% v/v			21 EPP B	B						
	Ammonium Sulfate	17	lb/100 gal			21 EPP B	B						
15	Sharpen (BAS 80004)	1	oz/a	25	g a/ha	21 EPP B	B	99.0 a	3.3 a	99.0 a	16.7 def	99.0 a	11.7 a
	Gramoxone Inteon	48	oz/a	840	g a/ha	21 EPP B	B						
	MSO	1	% v/v			21 EPP B	B						
	Ammonium Sulfate	17	lb/100 gal			21 EPP B	B						
16	Ignite 280 SL	32	oz/a	655	g a/ha	21 EPP B	B	99.0 a	3.0 a	99.0 a	0.0 f	99.0 a	5.3 a
	MSO	1	% v/v			21 EPP B	B						
	Ammonium Sulfate	17	lb/100 gal			21 EPP B	B						
17	Gramoxone Inteon	48	oz/a	840	g a/ha	21 EPP B	B	98.7 b	2.0 a	99.0 a	0.0 f	99.0 a	6.0 a
	MSO	1	% v/v			21 EPP B	B						
	Ammonium Sulfate	17	lb/100 gal			21 EPP B	B						
LSD (P=.05)							0.23	3.74	0.00	17.27	0.32	7.39	
Standard Deviation							0.14	2.25	0.00	10.36	0.19	4.43	
CV							0.15	66.57	0.0	32.53	0.21	60.78	
Grand Mean							93.16	3.37	93.18	31.84	93.14	7.29	
Bartlett's X2							0.0	11.442	0.0	15.532	0.0	28.275	
P(Bartlett's X2)							.	0.651	.	0.214	.	0.013*	
Replicate F							1.000	0.202	0.000	0.417	2.133	3.080	
Replicate Prob(F)							0.3791	0.8179	1.0000	0.6627	0.1350	0.0598	
Treatment F							88172.884	1.074	0.000	33.826	47006.204	1.471	
Treatment Prob(F)							0.0001	0.4163	1.0000	0.0001	0.0001	0.1719	

Description								Waterhemp	Waterhemp	Waterhemp
Rating Date								06-30-09	08-03-09	08-03-09
Rating Type								Control	Control	Density
Rating Unit								Percent	Percent	m2 RunCH
Days After First/Last Applic.								69 54	103 88	103 88
Trt-Eval Interval										
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	32	33	34
1	Nontreated Check							0.0 g	0.0 c	0.0 a
2	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP B		83.3 a-d	99.0 a	3.3 a
	MSO	1 % v/v				21 EPP B				
	Ammonium Sulfate	17 lb/100 gal				21 EPP B				
3	Roundup Original	32 oz/a		840 g a/ha		21 EPP B		0.0 g	98.7 a	1.0 a
	MSO	1 % v/v				21 EPP B				
	Ammonium Sulfate	17 lb/100 gal				21 EPP B				
4	Roundup Original	32 oz/a		840 g a/ha		21 EPP B		3.3 g	99.0 a	4.7 a
	2,4-D LV4	15.8 oz/a		526 g a/ha		21 EPP B				
	MSO	1 % v/v				21 EPP B				
	Ammonium Sulfate	17 lb/100 gal				21 EPP B				
5	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP B		80.0 bcd	99.0 a	3.7 a
	Roundup Original	32 oz/a		840 g a/ha		21 EPP B				
	2,4-D LV4	15.8 oz/a		526 g a/ha		21 EPP B				
	MSO	1 % v/v				21 EPP B				
	Ammonium Sulfate	17 lb/100 gal				21 EPP B				
6	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		36 EPP A		55.0 f	99.0 a	2.3 a
	Roundup Original	32 oz/a		840 g a/ha		36 EPP A				
	MSO	1 % v/v				36 EPP A				
	Ammonium Sulfate	17 lb/100 gal				36 EPP A				
7	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP B		86.7 a-d	99.0 a	1.7 a
	Roundup Original	32 oz/a		840 g a/ha		21 EPP B				
	MSO	1 % v/v				21 EPP B				
	Ammonium Sulfate	17 lb/100 gal				21 EPP B				
8	Sharpen (BAS 80004)	2 oz/a		50 g a/ha		36 EPP A		60.0 ef	99.0 a	3.0 a
	Roundup Original	32 oz/a		840 g a/ha		36 EPP A				
	MSO	1 % v/v				36 EPP A				
	Ammonium Sulfate	17 lb/100 gal				36 EPP A				
9	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP B		99.0 a	99.0 a	1.7 a
	PROWL H2O	48 oz/a		1600 g a/ha		21 EPP B				
	Roundup Original	32 oz/a		840 g a/ha		21 EPP B				
	MSO	1 % v/v				21 EPP B				
	Ammonium Sulfate	17 lb/100 gal				21 EPP B				
10	Valor	2 oz/a		71.4 g a/ha		21 EPP B		96.0 ab	99.0 a	1.7 a
	Roundup Original	32 oz/a		840 g a/ha		21 EPP B				
	MSO	1 % v/v				21 EPP B				
	Ammonium Sulfate	17 lb/100 gal				21 EPP B				
11	OPTILL (BAS 80400)	2 oz/a		95 g a/ha		21 EPP B		93.0 abc	99.0 a	1.3 a
	Roundup Original	32 oz/a		840 g a/ha		21 EPP B				
	MSO	1 % v/v				21 EPP B				
	Ammonium Sulfate	17 lb/100 gal				21 EPP B				
12	OPTILL (BAS 80400)	2 oz/a		95 g a/ha		21 EPP B		99.0 a	99.0 a	1.3 a
	MSO	1 % v/v				21 EPP B				
	Ammonium Sulfate	17 lb/100 gal				21 EPP B				
13	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP B		94.0 abc	99.0 a	1.3 a
	SENCOR	0.75 lb/a		630 g a/ha		21 EPP B				
	MSO	1 % v/v				21 EPP B				
	Ammonium Sulfate	17 lb/100 gal				21 EPP B				

Northeast Research & Extension Center

Description								Waterhemp	Waterhemp	Waterhemp			
Rating Date								06-30-09	08-03-09	08-03-09			
Rating Type								Control	Control	Density			
Rating Unit								Percent	Percent	m2 RunCH			
Days After First/Last Applic.								69 54	103 88	103 88			
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	32	33	34			
14	Sharpen (BAS 80004)	1	oz/a	25	g a/ha	21 EPP	B	76.7	cde	98.7	a	3.0	a
	Ignite 280 SL	32	oz/a	655	g a/ha	21 EPP	B						
	MSO	1	% v/v			21 EPP	B						
	Ammonium Sulfate	17	lb/100 gal			21 EPP	B						
15	Sharpen (BAS 80004)	1	oz/a	25	g a/ha	21 EPP	B	70.0	def	97.7	ab	1.0	a
	Gramoxone Inteon	48	oz/a	840	g a/ha	21 EPP	B						
	MSO	1	% v/v			21 EPP	B						
	Ammonium Sulfate	17	lb/100 gal			21 EPP	B						
16	Ignite 280 SL	32	oz/a	655	g a/ha	21 EPP	B	0.0	g	98.3	ab	1.7	a
	MSO	1	% v/v			21 EPP	B						
	Ammonium Sulfate	17	lb/100 gal			21 EPP	B						
17	Gramoxone Inteon	48	oz/a	840	g a/ha	21 EPP	B	0.0	g	96.0	b	1.0	a
	MSO	1	% v/v			21 EPP	B						
	Ammonium Sulfate	17	lb/100 gal			21 EPP	B						
LSD (P=.05)								18.58		2.39		2.94	
Standard Deviation								11.14		1.43		1.77	
CV								19.02		1.54		89.16	
Grand Mean								58.59		92.84		1.98	
Bartlett's X2								15.389		12.555		21.684	
P(Bartlett's X2)								0.031*		0.014*		0.041*	
Replicate F								1.599		0.726		2.818	
Replicate Prob(F)								0.2183		0.4917		0.0746	
Treatment F								39.588		837.438		1.356	
Treatment Prob(F)								0.0001		0.0001		0.2251	

Northeast Research & Extension Center

2009 BAS Saflufenacil Soybean Preplant Burndown Efficacy and Tolerance

Trial ID: 09HD91A1.0 SB Burndown Protocol ID: 09HD91A1.0 SB Burndown
Location: Concord, NE Study Director: Stevan Knezevic
Project ID: Investigator: Stevan Knezevic
Sponsor Contact:

Rating Unit

% = percent

Percent = percent

Northeast Research & Extension Center

2009 BAS Saflufenacil Soybean Preplant Burndown Efficacy and Tolerance

Trial ID: 09HD91A1.0 SB Burndown Protocol ID: 09HD91A1.0 SB Burndown
 Location: Concord, NE Study Director: Stevan Knezevic
 Project ID: Investigator: Stevan Knezevic
 Sponsor Contact:

Description							Kruger SB	Kruger SB	Kruger SB	Pioneer SB	Pioneer SB	Pioneer SB		
Rating Date							11-07-09	11-07-09	11-07-09	11-07-09	11-07-09	11-07-09		
Rating Type							Yield@13%	Moisture	Test WT	Yield@13%	Moisture	Test WT		
Rating Unit							bu/A	%	lb/bu	bu/A	%	lb/bu		
Days After First/Last Applic.							199 184	199 184	199 184	199 184	199 184	199 184		
Trt-Eval Interval														
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	1	2	3	4	5	6
1	Nontreated Check							101	38.240	10.880	54.300	36.410	11.130	
								209	27.270	10.840	39.860	20.390	11.100	
								314	35.170	10.970	50.480	36.120	11.690	51.190
								Mean =	33.560	10.897	48.213	30.973	11.307	51.190
2	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP	B	102	56.840	10.980	61.820	57.000	11.140	61.340
	MSO	1 % v/v				21 EPP	B	214	42.820	10.800	59.790	47.410	11.630	60.620
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B	316	42.700	11.050	60.140	43.250	11.360	60.260
								Mean =	47.453	10.943	60.583	49.220	11.377	60.740
3	Roundup Original	32 oz/a		840 g a/ha		21 EPP	B	103	53.910	11.000	61.930	49.890	11.220	61.100
	MSO	1 % v/v				21 EPP	B	213	46.120	10.910	60.380	43.940	11.590	60.030
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B	302	44.700	11.050	61.100	43.970	11.220	60.500
								Mean =	48.243	10.987	61.137	45.933	11.343	60.543
4	Roundup Original	32 oz/a		840 g a/ha		21 EPP	B	104	52.780	11.070	61.100	51.480	11.180	60.260
	2,4-D LV4	15.8 oz/a		526 g a/ha		21 EPP	B	217	37.610	11.100	57.400	42.600	11.250	59.310
	MSO	1 % v/v				21 EPP	B	313	50.580	10.960	60.500	53.170	11.680	60.260
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B							
								Mean =	46.990	11.043	59.667	49.083	11.370	59.943
5	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP	B	105	49.840	11.030	61.930	48.950	11.180	60.380
	Roundup Original	32 oz/a		840 g a/ha		21 EPP	B	204	52.960	11.040	62.170	53.720	11.210	61.100
	2,4-D LV4	15.8 oz/a		526 g a/ha		21 EPP	B	303	49.180	11.040	61.580	49.640	11.190	61.100
	MSO	1 % v/v				21 EPP	B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B							
								Mean =	50.660	11.037	61.893	50.770	11.193	60.860
6	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		36 EPP	A	106	39.460	11.050	55.370	34.790	11.270	
	Roundup Original	32 oz/a		840 g a/ha		36 EPP	A	215	49.540	10.990	59.910	43.010	11.300	59.670
	MSO	1 % v/v				36 EPP	A	308	39.480	11.140	55.970	40.570	11.230	57.160
	Ammonium Sulfate	17 lb/100 gal				36 EPP	A							
								Mean =	42.827	11.060	57.083	39.457	11.267	58.415
7	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP	B	107	45.130	11.050	60.380	45.390	11.170	60.620
	Roundup Original	32 oz/a		840 g a/ha		21 EPP	B	203	54.070	11.000	61.700	52.340	11.190	60.980
	MSO	1 % v/v				21 EPP	B	317	43.440	11.090	60.620	49.790	11.300	59.670
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B							
								Mean =	47.547	11.047	60.900	49.173	11.220	60.423
8	Sharpen (BAS 80004)	2 oz/a		50 g a/ha		36 EPP	A	108	45.660	11.070	60.740	44.180	11.120	67.190
	Roundup Original	32 oz/a		840 g a/ha		36 EPP	A	202	46.480	11.050	61.340	45.390	11.170	60.980
	MSO	1 % v/v				36 EPP	A	301	44.080	10.990	61.580	43.820	11.180	61.220
	Ammonium Sulfate	17 lb/100 gal				36 EPP	A							
								Mean =	45.407	11.037	61.220	44.463	11.157	63.130

Northeast Research & Extension Center

Description								Kruger SB	Kruger SB	Kruger SB	Pioneer SB	Pioneer SB	Pioneer SB	
Rating Date								11-07-09	11-07-09	11-07-09	11-07-09	11-07-09	11-07-09	
Rating Type								Yield@13%	Moisture	Test WT	Yield@13%	Moisture	Test WT	
Rating Unit								bu/A	%	lb/bu	bu/A	%	lb/bu	
Days After First/Last Applic.								199 184	199 184	199 184	199 184	199 184	199 184	
Trt-Eval Interval														
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	1	2	3	4	5	6
9	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP	B	109	42.590	11.290	60.620	44.250	11.940	59.910
	PROWL H2O	48 oz/a		1600 g a/ha		21 EPP	B	210	46.150	11.170	60.980	52.040	11.780	60.500
	Roundup Original	32 oz/a		840 g a/ha		21 EPP	B	304	42.250	11.080	59.910	41.500	11.200	59.190
	MSO	1 % v/v				21 EPP	B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B							
								Mean =	43.663	11.180	60.503	45.930	11.640	59.867
10	Valor	2 oz/a		71.4 g a/ha		21 EPP	B	110	43.410	11.150	60.860	38.200	11.840	56.090
	Roundup Original	32 oz/a		840 g a/ha		21 EPP	B	208	46.590	11.150	61.340	51.840	11.200	60.620
	MSO	1 % v/v				21 EPP	B	312	44.840	10.980	60.380	44.410	11.730	60.260
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B							
								Mean =	44.947	11.093	60.860	44.817	11.590	58.990
11	OPTILL (BAS 80400)	2 oz/a		95 g a/ha		21 EPP	B	111	43.720	11.060	59.910	47.100	11.900	59.910
	Roundup Original	32 oz/a		840 g a/ha		21 EPP	B	205	53.730	11.030	61.700	60.450	11.150	61.220
	MSO	1 % v/v				21 EPP	B	310	44.440	11.130	60.620	50.650	11.880	60.860
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B							
								Mean =	47.297	11.073	60.743	52.733	11.643	60.663
12	OPTILL (BAS 80400)	2 oz/a		95 g a/ha		21 EPP	B	112	40.310	10.960	58.830	43.000	11.760	60.380
	MSO	1 % v/v				21 EPP	B	211	46.860	11.050	59.910	48.400	11.790	60.260
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B	309	43.430	11.220	60.860	46.570	11.800	59.790
								Mean =	43.533	11.077	59.867	45.990	11.783	60.143
13	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP	B	113	38.210	10.940	58.240	46.000	11.560	60.260
	SENCOR	0.75 lb/a		630 g a/ha		21 EPP	B	216	45.840	11.030	60.860	44.130	11.330	59.910
	MSO	1 % v/v				21 EPP	B	311	48.190	11.080	60.500	52.450	11.820	60.380
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B							
								Mean =	44.080	11.017	59.867	47.527	11.570	60.183
14	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP	B	114	50.030	10.790	60.740	47.040	11.520	60.620
	Ignite 280 SL	32 oz/a		655 g a/ha		21 EPP	B	201	49.170	10.970	61.820	52.150	11.140	60.860
	MSO	1 % v/v				21 EPP	B	315	27.880	11.300		51.590	11.360	59.910
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B							
								Mean =	42.360	11.020	61.280	50.260	11.340	60.463
15	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP	B	115	35.600	11.000	53.940	38.700	11.310	58.350
	Gramoxone Inteon	48 oz/a		840 g a/ha		21 EPP	B	207	44.870	11.040	61.460	53.090	11.190	61.340
	MSO	1 % v/v				21 EPP	B	306	28.390	11.580		34.280	11.330	
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B							
								Mean =	36.287	11.207	57.700	42.023	11.277	59.845
16	Ignite 280 SL	32 oz/a		655 g a/ha		21 EPP	B	116	47.190	11.030	60.500	47.510	11.350	59.910
	MSO	1 % v/v				21 EPP	B	206	53.650	11.070	61.460	54.070	11.180	60.980
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B	305	47.200	11.110	61.460	52.270	11.210	61.340
								Mean =	49.347	11.070	61.140	51.283	11.247	60.743
17	Gramoxone Inteon	48 oz/a		840 g a/ha		21 EPP	B	117	32.150	11.110		33.850	11.190	
	MSO	1 % v/v				21 EPP	B	212	28.840	10.670		34.330	11.750	50.240
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B	307	34.010	11.040	49.640	35.250	11.180	
								Mean =	31.667	10.940	49.640	34.477	11.373	50.240

Description							Soybean	Soybean	Brome	Brome	Tansy Mustard	Tansy Mustard		
Rating Date							06-18-09	06-30-09	05-29-09	06-30-09	05-29-09	06-30-09		
Rating Type							Injury	Injury	Control	Control	Control	Control		
Rating Unit							%	%	Percent	Percent	Percent	Percent		
Days After First/Last Applic.							57 42	69 54	37 22	69 54	37 22	69 54		
Trt-Eval Interval														
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	7	8	9	10	11	12
1	Nontreated Check							101	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
								314	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	Sharpen (BAS 80004) MSO Ammonium Sulfate	1 oz/a		25 g a/ha		21 EPP B		102	0.0	0.0	0.0	20.0	99.0	80.0
		1 % v/v				21 EPP B		214	0.0	0.0	0.0	10.0	99.0	99.0
		17 lb/100 gal				21 EPP B		316	0.0	0.0	10.0	20.0	99.0	80.0
								Mean =	0.0	0.0	3.3	16.7	99.0	86.3
3	Roundup Original MSO Ammonium Sulfate	32 oz/a		840 g a/ha		21 EPP B		103	0.0	0.0		99.0	99.0	99.0
		1 % v/v				21 EPP B		213	0.0	0.0	99.0	99.0	99.0	99.0
		17 lb/100 gal				21 EPP B		302	0.0	0.0	99.0	99.0	99.0	99.0
								Mean =	0.0	0.0	99.0	99.0	99.0	99.0
4	Roundup Original 2,4-D LV4 MSO Ammonium Sulfate	32 oz/a		840 g a/ha		21 EPP B		104	0.0	0.0		99.0	99.0	99.0
		15.8 oz/a		526 g a/ha		21 EPP B		217	0.0	0.0	99.0	99.0	99.0	99.0
		1 % v/v				21 EPP B		313	0.0	0.0	99.0	99.0	99.0	99.0
		17 lb/100 gal				21 EPP B								
								Mean =	0.0	0.0	99.0	99.0	99.0	99.0
5	Sharpen (BAS 80004) Roundup Original 2,4-D LV4 MSO Ammonium Sulfate	1 oz/a		25 g a/ha		21 EPP B		105	0.0	0.0			99.0	99.0
		32 oz/a		840 g a/ha		21 EPP B		204	0.0	0.0	99.0	99.0	99.0	99.0
		15.8 oz/a		526 g a/ha		21 EPP B		303	0.0	0.0	99.0	99.0	99.0	99.0
		1 % v/v				21 EPP B								
		17 lb/100 gal				21 EPP B								
						Mean =	0.0	0.0	99.0	99.0	99.0	99.0		
6	Sharpen (BAS 80004) Roundup Original MSO Ammonium Sulfate	1 oz/a		25 g a/ha		36 EPP A		106	0.0	0.0			99.0	99.0
		32 oz/a		840 g a/ha		36 EPP A		215	0.0	0.0	99.0	99.0	99.0	99.0
		1 % v/v				36 EPP A		308	0.0	0.0	99.0	99.0	99.0	99.0
		17 lb/100 gal				36 EPP A								
						Mean =	0.0	0.0	99.0	99.0	99.0	99.0		
7	Sharpen (BAS 80004) Roundup Original MSO Ammonium Sulfate	1 oz/a		25 g a/ha		21 EPP B		107	0.0	0.0	99.0	99.0	99.0	99.0
		32 oz/a		840 g a/ha		21 EPP B		203	0.0	0.0	99.0	99.0	99.0	99.0
		1 % v/v				21 EPP B		317	0.0	0.0	99.0	99.0	99.0	99.0
		17 lb/100 gal				21 EPP B								
						Mean =	0.0	0.0	99.0	99.0	99.0	99.0		
8	Sharpen (BAS 80004) Roundup Original MSO Ammonium Sulfate	2 oz/a		50 g a/ha		36 EPP A		108	0.0	0.0	99.0	99.0	99.0	99.0
		32 oz/a		840 g a/ha		36 EPP A		202	0.0	0.0	99.0	99.0	99.0	99.0
		1 % v/v				36 EPP A		301	0.0	0.0	99.0	99.0	99.0	99.0
		17 lb/100 gal				36 EPP A								
						Mean =	0.0	0.0	99.0	99.0	99.0	99.0		

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Description							Soybean	Soybean	Brome	Brome	Tansy Mustard	Tansy Mustard		
Rating Date							06-18-09	06-30-09	05-29-09	06-30-09	05-29-09	06-30-09		
Rating Type							Injury	Injury	Control	Control	Control	Control		
Rating Unit							%	%	Percent	Percent	Percent	Percent		
Days After First/Last Applic.							57	69	37	69	37	69		
Trt-Eval Interval							42	54	22	54	22	54		
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	7	8	9	10	11	12
9	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP	B	109	0.0	0.0	99.0	99.0	99.0	99.0
	PROWL H2O	48 oz/a		1600 g a/ha		21 EPP	B	210	0.0	0.0	99.0	99.0	99.0	99.0
	Roundup Original	32 oz/a		840 g a/ha		21 EPP	B	304	0.0	0.0	99.0	99.0	99.0	99.0
	MSO	1 % v/v				21 EPP	B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B							
								Mean =	0.0	0.0	99.0	99.0	99.0	99.0
10	Valor	2 oz/a		71.4 g a/ha		21 EPP	B	110	0.0	0.0	99.0	99.0	99.0	99.0
	Roundup Original	32 oz/a		840 g a/ha		21 EPP	B	208	0.0	0.0	95.0	99.0	99.0	99.0
	MSO	1 % v/v				21 EPP	B	312	0.0	0.0	99.0	99.0	99.0	99.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B							
								Mean =	0.0	0.0	97.7	99.0	99.0	99.0
11	OPTILL (BAS 80400)	2 oz/a		95 g a/ha		21 EPP	B	111	0.0	0.0	99.0	99.0	99.0	99.0
	Roundup Original	32 oz/a		840 g a/ha		21 EPP	B	205	0.0	0.0	99.0	99.0	99.0	99.0
	MSO	1 % v/v				21 EPP	B	310	0.0	0.0	99.0	99.0	99.0	99.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B							
								Mean =	0.0	0.0	99.0	99.0	99.0	99.0
12	OPTILL (BAS 80400)	2 oz/a		95 g a/ha		21 EPP	B	112	0.0	0.0	30.0	20.0	99.0	99.0
	MSO	1 % v/v				21 EPP	B	211	0.0	0.0	10.0	20.0	99.0	99.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B	309	0.0	0.0	10.0	20.0	99.0	99.0
								Mean =	0.0	0.0	16.7	20.0	99.0	99.0
13	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP	B	113	0.0	0.0	0.0	20.0	99.0	99.0
	SENCOR	0.75 lb/a		630 g a/ha		21 EPP	B	216	0.0	0.0	0.0	10.0	99.0	99.0
	MSO	1 % v/v				21 EPP	B	311	0.0	0.0	10.0	20.0	99.0	99.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B							
								Mean =	0.0	0.0	3.3	16.7	99.0	99.0
14	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP	B	114	0.0	0.0	90.0		99.0	99.0
	Ignite 280 SL	32 oz/a		655 g a/ha		21 EPP	B	201	0.0	0.0	99.0	99.0	99.0	99.0
	MSO	1 % v/v				21 EPP	B	315	0.0	0.0	99.0	99.0	99.0	99.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B							
								Mean =	0.0	0.0	96.0	99.0	99.0	99.0
15	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP	B	115	0.0	0.0	99.0	99.0	99.0	99.0
	Gramoxone Inteon	48 oz/a		840 g a/ha		21 EPP	B	207	0.0	0.0	99.0	99.0	99.0	99.0
	MSO	1 % v/v				21 EPP	B	306	0.0	0.0	99.0	99.0	99.0	75.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B							
								Mean =	0.0	0.0	99.0	99.0	99.0	91.0
16	Ignite 280 SL	32 oz/a		655 g a/ha		21 EPP	B	116	0.0	0.0	99.0	99.0	99.0	99.0
	MSO	1 % v/v				21 EPP	B	206	0.0	0.0	99.0	99.0	99.0	99.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B	305	0.0	0.0	99.0	99.0	99.0	99.0
								Mean =	0.0	0.0	99.0	99.0	99.0	99.0
17	Gramoxone Inteon	48 oz/a		840 g a/ha		21 EPP	B	117	0.0	0.0	85.0		99.0	99.0
	MSO	1 % v/v				21 EPP	B	212	0.0	0.0	90.0	60.0	99.0	90.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B	307	0.0	0.0	99.0	99.0	99.0	25.0
								Mean =	0.0	0.0	91.3	79.5	99.0	71.3

Description								Tansy Mustard	Tansy Mustard	Dandelion	Dandelion	Dandelion	Dandelion	
Rating Date								08-03-09	08-03-09	05-29-09	06-30-09	08-03-09	08-03-09	
Rating Type								Control	Density	Control	Control	Control	Density	
Rating Unit								Percent	m2 RunCH	Percent	Percent	Percent	m2 RunCH	
Days After First/Last Applic.								103 88	103 88	37 22	69 54	103 88	103 88	
Trt-Eval Interval														
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	13	14	15	16	17	18
1	Nontreated Check							101	0.0	0.0	0.0	0.0	0.0	0.0
								209	0.0	0.0	0.0	0.0	0.0	
								314	0.0	0.0	0.0	0.0	0.0	
								Mean =	0.0	0.0	0.0	0.0	0.0	
2	Sharpen (BAS 80004) MSO Ammonium Sulfate	1 oz/a 1 % v/v 17 lb/100 gal		25 g a/ha		21 EPP	B	102	99.0	5.0	99.0	50.0	98.0	5.0
								214	99.0	4.0	90.0	40.0	98.0	5.0
								316	99.0	1.0	60.0	65.0	99.0	10.0
								Mean =	99.0	3.3	83.0	51.7	98.3	6.7
3	Roundup Original MSO Ammonium Sulfate	32 oz/a 1 % v/v 17 lb/100 gal		840 g a/ha		21 EPP	B	103	99.0	4.0	90.0	75.0	99.0	15.0
								213	99.0	5.0	90.0	70.0	98.0	5.0
								302	99.0	1.0	85.0	60.0	99.0	10.0
								Mean =	99.0	3.3	88.3	68.3	98.7	10.0
4	Roundup Original 2,4-D LV4 MSO Ammonium Sulfate	32 oz/a 15.8 oz/a 1 % v/v 17 lb/100 gal		840 g a/ha 526 g a/ha		21 EPP	B	104	99.0	5.0	70.0	70.0	97.0	15.0
								217	99.0	2.0	90.0	80.0	92.0	20.0
								313	99.0	3.0	90.0	80.0	99.0	8.0
								Mean =	99.0	3.3	83.3	76.7	96.0	14.3
5	Sharpen (BAS 80004) Roundup Original 2,4-D LV4 MSO Ammonium Sulfate	1 oz/a 32 oz/a 15.8 oz/a 1 % v/v 17 lb/100 gal		25 g a/ha 840 g a/ha 526 g a/ha		21 EPP	B	105	99.0	10.0	99.0	70.0	99.0	8.0
								204	99.0	2.0	99.0	90.0	99.0	6.0
								303	99.0	1.0	99.0	90.0	99.0	15.0
								Mean =	99.0	4.3	99.0	83.3	99.0	9.7
6	Sharpen (BAS 80004) Roundup Original MSO Ammonium Sulfate	1 oz/a 32 oz/a 1 % v/v 17 lb/100 gal		25 g a/ha 840 g a/ha		36 EPP	A	106	99.0	4.0	70.0	50.0	97.0	12.0
								215	99.0	2.0	65.0	25.0	99.0	6.0
								308	99.0	1.0	80.0	50.0	94.0	15.0
								Mean =	99.0	2.3	71.7	41.7	96.7	11.0
7	Sharpen (BAS 80004) Roundup Original MSO Ammonium Sulfate	1 oz/a 32 oz/a 1 % v/v 17 lb/100 gal		25 g a/ha 840 g a/ha		21 EPP	B	107	99.0	5.0	99.0	60.0	98.0	6.0
								203	99.0	1.0	95.0	60.0	99.0	10.0
								317	99.0	1.0	99.0	85.0	98.0	5.0
								Mean =	99.0	2.3	97.7	68.3	98.3	7.0
8	Sharpen (BAS 80004) Roundup Original MSO Ammonium Sulfate	2 oz/a 32 oz/a 1 % v/v 17 lb/100 gal		50 g a/ha 840 g a/ha		36 EPP	A	108	99.0	2.0	96.0	80.0	99.0	10.0
								202	99.0	2.0	95.0	85.0	98.0	10.0
								301	99.0	2.0	75.0	60.0	99.0	10.0
								Mean =	99.0	2.0	88.7	75.0	98.7	10.0

Northeast Research & Extension Center

Description								Tansy Mustard	Tansy Mustard	Dandelion	Dandelion	Dandelion	Dandelion	
Rating Date								08-03-09	08-03-09	05-29-09	06-30-09	08-03-09	08-03-09	
Rating Type								Control	Density	Control	Control	Control	Density	
Rating Unit								Percent	m2 RunCH	Percent	Percent	Percent	m2 RunCH	
Days After First/Last Applic.								103 88	103 88	37 22	69 54	103 88	103 88	
Trt-Eval Interval														
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	13	14	15	16	17	18
9	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP	B	109	99.0	8.0	96.0	70.0	99.0	7.0
	PROWL H2O	48 oz/a		1600 g a/ha		21 EPP	B	210	99.0	2.0	99.0	85.0	99.0	10.0
	Roundup Original	32 oz/a		840 g a/ha		21 EPP	B	304	99.0	4.0	99.0	50.0	97.0	8.0
	MSO	1 % v/v				21 EPP	B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B							
	Mean =								99.0	4.7	98.0	68.3	98.3	8.3
10	Valor	2 oz/a		71.4 g a/ha		21 EPP	B	110	99.0	1.0	60.0	30.0	96.0	15.0
	Roundup Original	32 oz/a		840 g a/ha		21 EPP	B	208	99.0	4.0	99.0	90.0	98.0	10.0
	MSO	1 % v/v				21 EPP	B	312	99.0	1.0	95.0	50.0	95.0	
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B							
	Mean =								99.0	2.0	84.7	56.7	96.3	12.5
11	OPTILL (BAS 80400)	2 oz/a		95 g a/ha		21 EPP	B	111	99.0	4.0	99.0	85.0	99.0	10.0
	Roundup Original	32 oz/a		840 g a/ha		21 EPP	B	205	99.0	5.0	99.0	90.0	99.0	10.0
	MSO	1 % v/v				21 EPP	B	310	99.0	2.0	99.0	92.0	99.0	15.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B							
	Mean =								99.0	3.7	99.0	89.0	99.0	11.7
12	OPTILL (BAS 80400)	2 oz/a		95 g a/ha		21 EPP	B	112	99.0	2.0	99.0	75.0	98.0	20.0
	MSO	1 % v/v				21 EPP	B	211	99.0	1.0	99.0	80.0	99.0	10.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B	309	99.0	1.0	99.0	75.0	98.0	20.0
	Mean =								99.0	1.3	99.0	76.7	98.3	16.7
	13	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP	B	113	99.0	2.0	80.0	50.0	98.0
SENCOR		0.75 lb/a		630 g a/ha		21 EPP	B	216	99.0	2.0	70.0	70.0	99.0	5.0
MSO		1 % v/v				21 EPP	B	311	99.0	1.0	95.0	80.0	99.0	10.0
Ammonium Sulfate		17 lb/100 gal				21 EPP	B							
Mean =									99.0	1.7	81.7	66.7	98.7	8.3
14	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP	B	114	99.0	5.0	99.0	90.0	99.0	20.0
	Ignite 280 SL	32 oz/a		655 g a/ha		21 EPP	B	201	99.0	1.0	99.0	95.0	98.0	8.0
	MSO	1 % v/v				21 EPP	B	315	99.0	3.0	99.0	95.0	99.0	8.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B							
	Mean =								99.0	3.0	99.0	93.3	98.7	12.0
15	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP	B	115	99.0	2.0	50.0	30.0	95.0	10.0
	Gramoxone Inteon	48 oz/a		840 g a/ha		21 EPP	B	207	99.0	6.0	50.0	40.0	95.0	12.0
	MSO	1 % v/v				21 EPP	B	306	99.0	2.0	30.0	10.0	70.0	15.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B							
	Mean =								99.0	3.3	43.3	26.7	86.7	12.3
16	Ignite 280 SL	32 oz/a		655 g a/ha		21 EPP	B	116	99.0	6.0	99.0	90.0	99.0	15.0
	MSO	1 % v/v				21 EPP	B	206	99.0	2.0	99.0	90.0	99.0	10.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B	305	99.0	6.0	99.0	75.0	96.0	10.0
	Mean =								99.0	4.7	99.0	85.0	98.0	11.7
	17	Gramoxone Inteon	48 oz/a		840 g a/ha		21 EPP	B	117	99.0	4.0	40.0	10.0	85.0
MSO		1 % v/v				21 EPP	B	212	99.0	2.0	40.0	10.0	75.0	15.0
Ammonium Sulfate		17 lb/100 gal				21 EPP	B	307	99.0	2.0	30.0	10.0	75.0	10.0
Mean =									99.0	2.7	36.7	10.0	78.3	11.7

Northeast Research & Extension Center

Description								Marestail	Marestail	Marestail	Marestail	Pennycress	Velvetleaf	Velvetleaf	
Rating Date								05-29-09	06-30-09	08-03-09	08-03-09	05-29-09	05-29-09	06-30-09	
Rating Type								Control	Control	Control	Density	Control	Control	Control	
Rating Unit								Percent	Percent	Percent	m2 RunCH	Percent	Percent	Percent	
Days After First/Last Applic.								37 22	69 54	103 88	103 88	37 22	37 22	69 54	
Trt-Eval Interval															
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	19	20	21	22	23	24	25
1	Nontreated Check							101	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
								314	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
2	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP	B	102	99.0	90.0	99.0	2.0	99.0	99.0	80.0
	MSO	1 % v/v				21 EPP	B	214	99.0	99.0	99.0	7.0	99.0	95.0	50.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B	316	99.0	90.0	99.0	1.0	99.0	90.0	80.0
								Mean =	99.0	93.0	99.0	3.3	99.0	94.7	70.0
3	Roundup Original	32 oz/a		840 g a/ha		21 EPP	B	103	99.0	99.0	99.0	1.0	99.0	70.0	0.0
	MSO	1 % v/v				21 EPP	B	213	99.0	99.0	99.0	1.0	99.0	95.0	0.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B	302	99.0	99.0	99.0	2.0	99.0	90.0	0.0
								Mean =	99.0	99.0	99.0	1.3	99.0	85.0	0.0
4	Roundup Original	32 oz/a		840 g a/ha		21 EPP	B	104	99.0	99.0	99.0	1.0	99.0	99.0	0.0
	2,4-D LV4	15.8 oz/a		526 g a/ha		21 EPP	B	217	99.0	99.0	99.0	3.0	99.0	90.0	0.0
	MSO	1 % v/v				21 EPP	B	313	99.0	99.0	99.0	1.0	99.0	99.0	10.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B								
								Mean =	99.0	99.0	99.0	1.7	99.0	96.0	3.3
5	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP	B	105	99.0	99.0	99.0	1.0	99.0	99.0	70.0
	Roundup Original	32 oz/a		840 g a/ha		21 EPP	B	204	99.0	99.0	99.0	1.0	99.0	99.0	60.0
	2,4-D LV4	15.8 oz/a		526 g a/ha		21 EPP	B	303	99.0	99.0	99.0	3.0	99.0	99.0	50.0
	MSO	1 % v/v				21 EPP	B								
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B								
								Mean =	99.0	99.0	99.0	1.7	99.0	99.0	60.0
6	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		36 EPP	A	106	99.0	99.0	99.0	2.0	99.0	70.0	10.0
	Roundup Original	32 oz/a		840 g a/ha		36 EPP	A	215	99.0	75.0	99.0	2.0	99.0	99.0	50.0
	MSO	1 % v/v				36 EPP	A	308	99.0	99.0	99.0	3.0	99.0	99.0	80.0
	Ammonium Sulfate	17 lb/100 gal				36 EPP	A								
								Mean =	99.0	91.0	99.0	2.3	99.0	89.3	46.7
7	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP	B	107	99.0	99.0	99.0	3.0	99.0	99.0	90.0
	Roundup Original	32 oz/a		840 g a/ha		21 EPP	B	203	99.0	80.0	99.0	2.0	99.0	99.0	30.0
	MSO	1 % v/v				21 EPP	B	317	99.0	99.0	99.0	3.0	99.0	99.0	50.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B								
								Mean =	99.0	92.7	99.0	2.7	99.0	99.0	56.7
8	Sharpen (BAS 80004)	2 oz/a		50 g a/ha		36 EPP	A	108	99.0	99.0	99.0	5.0	99.0	95.0	60.0
	Roundup Original	32 oz/a		840 g a/ha		36 EPP	A	202	99.0	99.0	99.0	4.0	99.0	99.0	30.0
	MSO	1 % v/v				36 EPP	A	301	99.0	99.0	99.0	1.0	99.0	99.0	50.0
	Ammonium Sulfate	17 lb/100 gal				36 EPP	A								
								Mean =	99.0	99.0	99.0	3.3	99.0	97.7	46.7

Northeast Research & Extension Center

Description								Marestail	Marestail	Marestail	Marestail	Pennycress	Velvetleaf	Velvetleaf	
Rating Date								05-29-09	06-30-09	08-03-09	08-03-09	05-29-09	05-29-09	06-30-09	
Rating Type								Control	Control	Control	Density	Control	Control	Control	
Rating Unit								Percent	Percent	Percent	m2 RunCH	Percent	Percent	Percent	
Days After First/Last Applic.								37 22	69 54	103 88	103 88	37 22	37 22	69 54	
Trt-Eval Interval															
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	19	20	21	22	23	24	25
9	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP	B	109	99.0	99.0	99.0	5.0	99.0	99.0	95.0
	PROWL H2O	48 oz/a		1600 g a/ha		21 EPP	B	210	99.0	99.0	99.0	2.0	99.0	99.0	95.0
	Roundup Original	32 oz/a		840 g a/ha		21 EPP	B	304	99.0	99.0	99.0	1.0	99.0	99.0	90.0
	MSO	1 % v/v				21 EPP	B								
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B								
								Mean =	99.0	99.0	99.0	2.7	99.0	99.0	93.3
10	Valor	2 oz/a		71.4 g a/ha		21 EPP	B	110	99.0	99.0	99.0	1.0	99.0	99.0	60.0
	Roundup Original	32 oz/a		840 g a/ha		21 EPP	B	208	99.0	99.0	99.0	5.0	99.0	99.0	95.0
	MSO	1 % v/v				21 EPP	B	312	99.0	99.0	99.0	3.0	99.0	99.0	60.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B								
								Mean =	99.0	99.0	99.0	3.0	99.0	99.0	71.7
11	OPTILL (BAS 80400)	2 oz/a		95 g a/ha		21 EPP	B	111	99.0	99.0	99.0	1.0	99.0	99.0	95.0
	Roundup Original	32 oz/a		840 g a/ha		21 EPP	B	205	99.0	99.0	99.0	1.0	99.0	99.0	95.0
	MSO	1 % v/v				21 EPP	B	310	99.0	99.0	99.0	1.0	99.0	99.0	90.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B								
								Mean =	99.0	99.0	99.0	1.0	99.0	99.0	93.3
12	OPTILL (BAS 80400)	2 oz/a		95 g a/ha		21 EPP	B	112	99.0	99.0	99.0	2.0	99.0	99.0	70.0
	MSO	1 % v/v				21 EPP	B	211	99.0	90.0	99.0	1.0	99.0	99.0	95.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B	309	99.0	99.0	99.0	2.0	99.0	99.0	95.0
								Mean =	99.0	96.0	99.0	1.7	99.0	99.0	86.7
13	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP	B	113	99.0	99.0	99.0	2.0	99.0	99.0	95.0
	SENCOR	0.75 lb/a		630 g a/ha		21 EPP	B	216	99.0	99.0	99.0	3.0	99.0	99.0	50.0
	MSO	1 % v/v				21 EPP	B	311	99.0	99.0	99.0	2.0	99.0	99.0	90.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B								
								Mean =	99.0	99.0	99.0	2.3	99.0	99.0	78.3
14	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP	B	114	99.0	99.0	99.0	3.0	99.0	99.0	40.0
	Ignite 280 SL	32 oz/a		655 g a/ha		21 EPP	B	201	99.0	99.0	99.0	4.0	99.0	99.0	60.0
	MSO	1 % v/v				21 EPP	B	315	99.0	99.0	99.0	3.0	99.0	99.0	90.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B								
								Mean =	99.0	99.0	99.0	3.3	99.0	99.0	63.3
15	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP	B	115	99.0	99.0	99.0	1.0	99.0	99.0	40.0
	Gramoxone Inteon	48 oz/a		840 g a/ha		21 EPP	B	207	99.0	99.0	99.0	2.0	99.0	99.0	90.0
	MSO	1 % v/v				21 EPP	B	306	99.0	90.0	99.0	3.0	99.0	99.0	90.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B								
								Mean =	99.0	96.0	99.0	2.0	99.0	99.0	65.0
16	Ignite 280 SL	32 oz/a		655 g a/ha		21 EPP	B	116	99.0	99.0	99.0	2.0	99.0	90.0	0.0
	MSO	1 % v/v				21 EPP	B	206	99.0	99.0	99.0	5.0	99.0	90.0	0.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B	305	99.0	99.0	99.0	1.0	99.0	90.0	0.0
								Mean =	99.0	99.0	99.0	2.7	99.0	90.0	0.0
17	Gramoxone Inteon	48 oz/a		840 g a/ha		21 EPP	B	117	99.0	50.0	99.0	4.0	99.0	90.0	0.0
	MSO	1 % v/v				21 EPP	B	212	99.0	90.0	99.0	1.0	99.0	80.0	0.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B	307	99.0	80.0	99.0	1.0	99.0	80.0	0.0
								Mean =	99.0	73.3	99.0	2.0	99.0	83.3	0.0

Description							Velvetleaf	Velvetleaf	Lambsquarter	Green foxtail	Green foxtail	Green foxtail		
Rating Date							08-03-09	08-03-09	05-29-09	06-30-09	08-03-09	08-03-09		
Rating Type							Control	Control	Control	Control	Control	Density		
Rating Unit							Percent	m2 RunCH	Percent	Percent	Percent	m2 RunCH		
Days After First/Last Applic.							103 88	103 88	37 22	69 54	103 88	103 88		
Trt-Eval Interval														
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	26	27	28	29	30	31
1	Nontreated Check							101	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
								314	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	Sharpen (BAS 80004) MSO Ammonium Sulfate	1 oz/a		25 g a/ha		21 EPP B		102	99.0	5.0	99.0	40.0	99.0	5.0
		1 % v/v				21 EPP B		214	99.0	5.0	99.0	20.0	99.0	10.0
		17 lb/100 gal				21 EPP B		316	99.0	5.0	99.0	10.0	99.0	10.0
								Mean =	99.0	5.0	99.0	23.3	99.0	8.3
3	Roundup Original MSO Ammonium Sulfate	32 oz/a		840 g a/ha		21 EPP B		103	99.0	2.0	99.0	0.0	99.0	10.0
		1 % v/v				21 EPP B		213	99.0	8.0	99.0	0.0	99.0	4.0
		17 lb/100 gal				21 EPP B		302	99.0	5.0	99.0	0.0	98.0	5.0
								Mean =	99.0	5.0	99.0	0.0	98.7	6.3
4	Roundup Original 2,4-D LV4 MSO Ammonium Sulfate	32 oz/a		840 g a/ha		21 EPP B		104	99.0	2.0	99.0	0.0	99.0	5.0
		15.8 oz/a		526 g a/ha		21 EPP B		217	99.0	5.0	99.0	0.0	99.0	8.0
		1 % v/v				21 EPP B		313	99.0	3.0	99.0	10.0	99.0	10.0
		17 lb/100 gal				21 EPP B		Mean =	99.0	3.3	99.0	3.3	99.0	7.7
5	Sharpen (BAS 80004) Roundup Original 2,4-D LV4 MSO Ammonium Sulfate	1 oz/a		25 g a/ha		21 EPP B		105	99.0	10.0	99.0	40.0	99.0	5.0
		32 oz/a		840 g a/ha		21 EPP B		204	99.0	2.0	99.0	10.0	99.0	5.0
		15.8 oz/a		526 g a/ha		21 EPP B		303	99.0	1.0	99.0	10.0	98.0	3.0
		1 % v/v				21 EPP B		Mean =	99.0	4.3	99.0	20.0	98.7	4.3
6	Sharpen (BAS 80004) Roundup Original MSO Ammonium Sulfate	1 oz/a		25 g a/ha		36 EPP A		106	99.0	1.0	99.0	10.0	99.0	5.0
		32 oz/a		840 g a/ha		36 EPP A		215	99.0	4.0	99.0	20.0	99.0	10.0
		1 % v/v				36 EPP A		308	99.0	5.0	99.0	20.0	99.0	5.0
		17 lb/100 gal				36 EPP A		Mean =	99.0	3.3	99.0	16.7	99.0	6.7
7	Sharpen (BAS 80004) Roundup Original MSO Ammonium Sulfate	1 oz/a		25 g a/ha		21 EPP B		107	99.0	6.0	99.0	40.0	99.0	10.0
		32 oz/a		840 g a/ha		21 EPP B		203	99.0	4.0	99.0	10.0	99.0	5.0
		1 % v/v				21 EPP B		317	99.0	6.0	99.0	10.0	99.0	15.0
		17 lb/100 gal				21 EPP B		Mean =	99.0	5.3	99.0	20.0	99.0	10.0
8	Sharpen (BAS 80004) Roundup Original MSO Ammonium Sulfate	2 oz/a		50 g a/ha		36 EPP A		108	99.0	5.0	99.0	40.0	99.0	5.0
		32 oz/a		840 g a/ha		36 EPP A		202	99.0	5.0	99.0	10.0	99.0	10.0
		1 % v/v				36 EPP A		301	99.0	3.0	99.0	10.0	99.0	25.0
		17 lb/100 gal				36 EPP A		Mean =	99.0	4.3	99.0	20.0	99.0	13.3

Northeast Research & Extension Center

Description								Velvetleaf	Velvetleaf	Lambsquarter	Green foxtail	Green foxtail	Green foxtail	
Rating Date								08-03-09	08-03-09	05-29-09	06-30-09	08-03-09	08-03-09	
Rating Type								Control	Control	Control	Control	Control	Density	
Rating Unit								Percent	m2 RunCH	Percent	Percent	Percent	m2 RunCH	
Days After First/Last Applic.								103 88	103 88	37 22	69 54	103 88	103 88	
Trt-Eval Interval														
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	26	27	28	29	30	31
9	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP	B	109	99.0	1.0	99.0	90.0	99.0	5.0
	PROWL H2O	48 oz/a		1600 g a/ha		21 EPP	B	210	99.0	3.0	99.0	95.0	99.0	5.0
	Roundup Original	32 oz/a		840 g a/ha		21 EPP	B	304	99.0	7.0	99.0	99.0	99.0	6.0
	MSO	1 % v/v				21 EPP	B							
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B							
								Mean =	99.0	3.7	99.0	94.7	99.0	5.3
10	Valor	2 oz/a		71.4 g a/ha		21 EPP	B	110	99.0	1.0	99.0	60.0	99.0	5.0
	Roundup Original	32 oz/a		840 g a/ha		21 EPP	B	208	99.0	2.0	99.0	95.0	99.0	5.0
	MSO	1 % v/v				21 EPP	B	312	99.0	7.0	99.0	75.0	99.0	20.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B							
								Mean =	99.0	3.3	99.0	76.7	99.0	10.0
11	OPTILL (BAS 80400)	2 oz/a		95 g a/ha		21 EPP	B	111	99.0	3.0	99.0	90.0	99.0	5.0
	Roundup Original	32 oz/a		840 g a/ha		21 EPP	B	205	99.0	1.0	99.0	95.0	99.0	5.0
	MSO	1 % v/v				21 EPP	B	310	99.0	2.0	99.0	95.0	99.0	20.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B							
								Mean =	99.0	2.0	99.0	93.3	99.0	10.0
12	OPTILL (BAS 80400)	2 oz/a		95 g a/ha		21 EPP	B	112	99.0	1.0	99.0	90.0	99.0	10.0
	MSO	1 % v/v				21 EPP	B	211	99.0	2.0	99.0	95.0	99.0	5.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B	309	99.0	5.0	99.0	95.0	99.0	4.0
								Mean =	99.0	2.7	99.0	93.3	99.0	6.3
13	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP	B	113	99.0	3.0	99.0	30.0	99.0	4.0
	SENCOR	0.75 lb/a		630 g a/ha		21 EPP	B	216	99.0	6.0	99.0	30.0	99.0	10.0
	MSO	1 % v/v				21 EPP	B	311	99.0	4.0	99.0	45.0	99.0	5.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B							
								Mean =	99.0	4.3	99.0	35.0	99.0	6.3
14	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP	B	114	99.0	1.0	99.0	20.0	99.0	6.0
	Ignite 280 SL	32 oz/a		655 g a/ha		21 EPP	B	201	99.0	2.0		25.0	99.0	8.0
	MSO	1 % v/v				21 EPP	B	315	99.0	4.0	99.0	40.0	99.0	5.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B							
								Mean =	99.0	2.3	99.0	28.3	99.0	6.3
15	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP	B	115	99.0	5.0	99.0	20.0	99.0	5.0
	Gramoxone Inteon	48 oz/a		840 g a/ha		21 EPP	B	207	99.0	4.0	99.0	10.0	99.0	15.0
	MSO	1 % v/v				21 EPP	B	306	99.0	1.0	99.0	20.0	99.0	15.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B							
								Mean =	99.0	3.3	99.0	16.7	99.0	11.7
16	Ignite 280 SL	32 oz/a		655 g a/ha		21 EPP	B	116	99.0	5.0	99.0	0.0	99.0	5.0
	MSO	1 % v/v				21 EPP	B	206	99.0	1.0	99.0	0.0	99.0	6.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B	305	99.0	3.0	99.0	0.0	99.0	5.0
								Mean =	99.0	3.0	99.0	0.0	99.0	5.3
17	Gramoxone Inteon	48 oz/a		840 g a/ha		21 EPP	B	117	99.0	3.0	99.0	0.0	99.0	6.0
	MSO	1 % v/v				21 EPP	B	212	98.0	2.0	99.0	0.0	99.0	6.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B	307	99.0	1.0	99.0	0.0	99.0	6.0
								Mean =	98.7	2.0	99.0	0.0	99.0	6.0

Description								Waterhemp	Waterhemp	Waterhemp	
Rating Date								06-30-09	08-03-09	08-03-09	
Rating Type								Control	Control	Density	
Rating Unit								Percent	Percent	m2 RunCH	
Days After First/Last Applic.								69 54	103 88	103 88	
Trt-Eval Interval											
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	32	33	34
1	Nontreated Check							101 209 314	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	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP	B	102	75.0	99.0	8.0
	MSO	1 % v/v				21 EPP	B	214	80.0	99.0	1.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B	316	95.0	99.0	1.0
Mean =									83.3	99.0	3.3
3	Roundup Original	32 oz/a		840 g a/ha		21 EPP	B	103	0.0	98.0	1.0
	MSO	1 % v/v				21 EPP	B	213	0.0	99.0	1.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B	302	0.0	99.0	1.0
Mean =									0.0	98.7	1.0
4	Roundup Original	32 oz/a		840 g a/ha		21 EPP	B	104	0.0	99.0	10.0
	2,4-D LV4	15.8 oz/a		526 g a/ha		21 EPP	B	217	0.0	99.0	1.0
	MSO	1 % v/v				21 EPP	B	313	10.0	99.0	3.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B				
Mean =									3.3	99.0	4.7
5	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP	B	105	80.0	99.0	5.0
	Roundup Original	32 oz/a		840 g a/ha		21 EPP	B	204	80.0	99.0	5.0
	2,4-D LV4	15.8 oz/a		526 g a/ha		21 EPP	B	303	80.0	99.0	1.0
	MSO	1 % v/v				21 EPP	B				
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B				
Mean =									80.0	99.0	3.7
6	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		36 EPP	A	106	10.0	99.0	4.0
	Roundup Original	32 oz/a		840 g a/ha		36 EPP	A	215	75.0	99.0	1.0
	MSO	1 % v/v				36 EPP	A	308	80.0	99.0	2.0
	Ammonium Sulfate	17 lb/100 gal				36 EPP	A				
Mean =									55.0	99.0	2.3
7	Sharpen (BAS 80004)	1 oz/a		25 g a/ha		21 EPP	B	107	90.0	99.0	2.0
	Roundup Original	32 oz/a		840 g a/ha		21 EPP	B	203	75.0	99.0	1.0
	MSO	1 % v/v				21 EPP	B	317	95.0	99.0	2.0
	Ammonium Sulfate	17 lb/100 gal				21 EPP	B				
Mean =									86.7	99.0	1.7
8	Sharpen (BAS 80004)	2 oz/a		50 g a/ha		36 EPP	A	108	60.0	99.0	5.0
	Roundup Original	32 oz/a		840 g a/ha		36 EPP	A	202	60.0	99.0	2.0
	MSO	1 % v/v				36 EPP	A	301	60.0	99.0	2.0
	Ammonium Sulfate	17 lb/100 gal				36 EPP	A				
Mean =									60.0	99.0	3.0

Northeast Research & Extension Center

Description								Waterhemp	Waterhemp	Waterhemp	
Rating Date								06-30-09	08-03-09	08-03-09	
Rating Type								Control	Control	Density	
Rating Unit								Percent	Percent	m2 RunCH	
Days After First/Last Applic.								69	54	103	88
Trt-Eval Interval								69	54	103	88
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	32	33	34
9	Sharpen (BAS 80004)	1	oz/a	25	g a/ha	21 EPP	B	109	99.0	99.0	1.0
	PROWL H2O	48	oz/a	1600	g a/ha	21 EPP	B	210	99.0	99.0	1.0
	Roundup Original	32	oz/a	840	g a/ha	21 EPP	B	304	99.0	99.0	3.0
	MSO	1	% v/v			21 EPP	B				
	Ammonium Sulfate	17	lb/100 gal			21 EPP	B				
								Mean =	99.0	99.0	1.7
10	Valor	2	oz/a	71.4	g a/ha	21 EPP	B	110	99.0	99.0	3.0
	Roundup Original	32	oz/a	840	g a/ha	21 EPP	B	208	99.0	99.0	1.0
	MSO	1	% v/v			21 EPP	B	312	90.0	99.0	1.0
	Ammonium Sulfate	17	lb/100 gal			21 EPP	B				
								Mean =	96.0	99.0	1.7
11	OPTILL (BAS 80400)	2	oz/a	95	g a/ha	21 EPP	B	111	99.0	99.0	1.0
	Roundup Original	32	oz/a	840	g a/ha	21 EPP	B	205	90.0	99.0	1.0
	MSO	1	% v/v			21 EPP	B	310	90.0	99.0	2.0
	Ammonium Sulfate	17	lb/100 gal			21 EPP	B				
								Mean =	93.0	99.0	1.3
12	OPTILL (BAS 80400)	2	oz/a	95	g a/ha	21 EPP	B	112	99.0	99.0	1.0
	MSO	1	% v/v			21 EPP	B	211	99.0	99.0	1.0
	Ammonium Sulfate	17	lb/100 gal			21 EPP	B	309	99.0	99.0	2.0
								Mean =	99.0	99.0	1.3
13	Sharpen (BAS 80004)	1	oz/a	25	g a/ha	21 EPP	B	113	99.0	99.0	2.0
	SENCOR	0.75	lb/a	630	g a/ha	21 EPP	B	216	85.0	99.0	1.0
	MSO	1	% v/v			21 EPP	B	311	98.0	99.0	1.0
	Ammonium Sulfate	17	lb/100 gal			21 EPP	B				
								Mean =	94.0	99.0	1.3
14	Sharpen (BAS 80004)	1	oz/a	25	g a/ha	21 EPP	B	114	60.0	99.0	1.0
	Ignite 280 SL	32	oz/a	655	g a/ha	21 EPP	B	201	80.0	98.0	3.0
	MSO	1	% v/v			21 EPP	B	315	90.0	99.0	5.0
	Ammonium Sulfate	17	lb/100 gal			21 EPP	B				
								Mean =	76.7	98.7	3.0
15	Sharpen (BAS 80004)	1	oz/a	25	g a/ha	21 EPP	B	115	70.0	99.0	1.0
	Gramoxone Inteon	48	oz/a	840	g a/ha	21 EPP	B	207	70.0	95.0	1.0
	MSO	1	% v/v			21 EPP	B	306		99.0	1.0
	Ammonium Sulfate	17	lb/100 gal			21 EPP	B				
								Mean =	70.0	97.7	1.0
16	Ignite 280 SL	32	oz/a	655	g a/ha	21 EPP	B	116	0.0	99.0	1.0
	MSO	1	% v/v			21 EPP	B	206	0.0	99.0	1.0
	Ammonium Sulfate	17	lb/100 gal			21 EPP	B	305	0.0	97.0	3.0
								Mean =	0.0	98.3	1.7
17	Gramoxone Inteon	48	oz/a	840	g a/ha	21 EPP	B	117	0.0	99.0	1.0
	MSO	1	% v/v			21 EPP	B	212	0.0	99.0	1.0
	Ammonium Sulfate	17	lb/100 gal			21 EPP	B	307	0.0	90.0	1.0
								Mean =	0.0	96.0	1.0

Northeast Research & Extension Center

2009 BAS Saflufenacil Soybean Preplant Burndown Efficacy and Tolerance

Trial ID: 09HD91A1.0 SB Burndown Protocol ID: 09HD91A1.0 SB Burndown
Location: Concord, NE Study Director: Stevan Knezevic
Project ID: Investigator: Stevan Knezevic
Sponsor Contact:

Rating Unit

% = percent

Percent = percent