

Northeast Research & Extension Center

2009 Kixor Soybean (north) Preplant efficacy in no-till 2009 FMC burndown treatments with residual

Trial ID: 09 SRR-2 Kixor FMC BD Protocol ID: 09 SRR-2 Kixor FMC BD
 Location: Concord, NE Study Director:
 Project ID: DEM-H-2009-US-D91-A-2.0 Investigator: Stevan Knezevic
 Sponsor Contact:

General Trial Information

Investigator: Stevan Knezevic

Trial Status: F one-year/final

Trial Location

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

Personnel

Investigator: Stevan Knezevic

Crop Description

Crop 1: GLXMA Glycine max Soybean
 Variety: Kruger 310 Description: Row 1,2,3 on odd plots (left)
 BBCH Scale: BSOY Planting Date: 05-28-09
 Planting Method: SEEDED seeded Rate, Unit: 156816 s/a
 Depth, Unit: 1.5 in
 Row Spacing, Unit: 30 in
 Seed Bed: MEDTRA medium/trashy
 Soil Moisture: SLIDRY slightly dry Emergence Date: 06-04-09
 Harvest Date: 11-07-09 Harvest Equipment: Almaco 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 AP40
 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

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: RAOBL Randomized Complete Block (RCB)

	Previous Crops	Previous Pesticides	Year
1.	soybean	glyphosate	2008

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Tank Mix
1.	07-01-09	Roundup Powermax	5.5	lbai/ga	SL	28	oz/A	no

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Comment: Applied Maintenance to treated 10 by 30 only (not running checks). Also did put on the nontreated check treatment

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:	05-14-09	07-01-09
Time of Day:	10:00 am	11:00 am
Application Method:	spray	spray
Application Timing:	Burndown	POST
Application Placement:	foliar	foliar
Applied By:	rrjs	js
Air Temperature, Unit:	53 F	81 F
% Relative Humidity:	59	38
Wind Velocity, Unit:	5 mph	3 mph
Wind Direction:	N	S
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	49 F	74 F
Soil Moisture:	adequate	adequate
% Cloud Cover:	20	20

Crop Stage At Each Application

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

Pest Stage At Each Application

	A	B
W	W	

Application Equipment

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

Date	By	Notes
05-14-09	js	Weed size at application: Velvetleaf and marestail 1-2", brome 4-8", all others 3-6"
07-01-09	js	Weed size at application varied due to treatments strengths of control. Green foxtail varied from 2" to 12". Other broadleaf weeds variedl from 3" to 12".

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 Location: Concord, NE Study Director:
 Project ID: DEM-H-2009-US-D91-A-2.0 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.							177 129	177 129	177 129	177 129	177 129	177 129	
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	5	6
1	Nontreated Check						A	30.943 c			28.003 b	11.260 a	
	Nontreated Check						B		11.127 a				
2	Roundup Powermax NIS	22 oz/a		870 g a/ha		14 EPP A	A	44.830 ab	11.120 a	59.233 a	40.467 a	11.163 a	61.100 a
	Ammonium Sulfate	0.25 % v/v				14 EPP A	A						
	Roundup Powermax NIS	17 lb/100 gal				14 EPP A	A						
	Roundup Powermax NIS	22 oz/a		870 g a/ha		POST B	B						
	Ammonium Sulfate	0.25 % v/v				POST B	B						
	Ammonium Sulfate	17 lb/100 gal				POST B	B						
3	Roundup Powermax 2,4-D LV Ester	22 oz/a		870 g a/ha		14 EPP A	A	44.397 ab	11.120 a	60.783 a	46.253 a	11.347 a	60.263 a
	NIS	0.25 % v/v		530 g a/ha		14 EPP A	A						
	Ammonium Sulfate	17 lb/100 gal				14 EPP A	A						
	Roundup Powermax NIS	22 oz/a		870 g a/ha		POST B	B						
	Ammonium Sulfate	0.25 % v/v				POST B	B						
	Ammonium Sulfate	17 lb/100 gal				POST B	B						
4	SHARPEN (BAS 80004)	1 oz/a		25 g a/ha		14 EPP A	A	47.090 a	11.023 a	60.027 a	46.577 a	11.173 a	60.503 a
	Roundup Powermax MSO	22 oz/a		870 g a/ha		14 EPP A	A						
	Ammonium Sulfate	1 % v/v				14 EPP A	A						
	Ammonium Sulfate	17 lb/100 gal				14 EPP A	A						
	Roundup Powermax NIS	22 oz/a		870 g a/ha		POST B	B						
	Ammonium Sulfate	0.25 % v/v				POST B	B						
	Ammonium Sulfate	17 lb/100 gal				POST B	B						
5	OPTILL (BAS 80400)	2 oz/a		95 g a/ha		14 EPP A	A	40.073 ab	11.133 a	61.640 a	43.993 a	11.173 a	60.920 a
	Roundup Powermax MSO	22 oz/a		870 g a/ha		14 EPP A	A						
	Ammonium Sulfate	1 % v/v				14 EPP A	A						
	Ammonium Sulfate	17 lb/100 gal				14 EPP A	A						
	Roundup Powermax NIS	22 oz/a		870 g a/ha		POST B	B						
	Ammonium Sulfate	0.25 % v/v				POST B	B						
	Ammonium Sulfate	17 lb/100 gal				POST B	B						
6	SHARPEN (BAS 80004) Extreme	1 oz/a		25 g a/ha		14 EPP A	A	42.710 ab	11.040 a	57.523 a	45.970 a	11.167 a	60.383 a
	MSO	48 oz/a		696 g a/ha		14 EPP A	A						
	Ammonium Sulfate	1 % v/v				14 EPP A	A						
	Ammonium Sulfate	17 lb/100 gal				14 EPP A	A						
	Roundup Powermax NIS	22 oz/a		870 g a/ha		POST B	B						
	Ammonium Sulfate	0.25 % v/v				POST B	B						
	Ammonium Sulfate	17 lb/100 gal				POST B	B						
7	SHARPEN (BAS 80004) PROWL H2O	1 oz/a		25 g a/ha		14 EPP A	A	41.277 ab	11.090 a	58.790 a	40.710 a	11.187 a	58.077 a
	Roundup Powermax MSO	32 oz/a		1060 g a/ha		14 EPP A	A						
	Ammonium Sulfate	22 oz/a		870 g a/ha		14 EPP A	A						
	Ammonium Sulfate	1 % v/v				14 EPP A	A						
	Ammonium Sulfate	17 lb/100 gal				14 EPP A	A						
	Roundup Powermax NIS	22 oz/a		870 g a/ha		POST B	B						
	Ammonium Sulfate	0.25 % v/v				POST B	B						
	Ammonium Sulfate	17 lb/100 gal				POST B	B						

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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.							177 129	177 129	177 129	177 129	177 129	177 129
Trt-Eval Interval												
Trt No.	Treatment Name	Rate	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	5	6
8	Authority Assist	5 oz/a			14 EPP	A	46.760 a	11.070 a	61.060 a	43.810 a	11.177 a	59.070 a
	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A						
	MSO	1 % v/v			14 EPP	A						
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A						
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B						
	NIS	0.25 % v/v			POST	B						
	Ammonium Sulfate	17 lb/100 gal			POST	B						
9	Authority Assist	6 oz/a			14 EPP	A	38.367 bc	11.170 a	58.890 a	39.863 a	11.607 a	59.067 a
	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A						
	MSO	1 % v/v			14 EPP	A						
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A						
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B						
	NIS	0.25 % v/v			POST	B						
	Ammonium Sulfate	17 lb/100 gal			POST	B						
10	Authority Assist	8 oz/a			14 EPP	A	42.783 ab	11.110 a	59.547 a	44.883 a	11.403 a	59.467 a
	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A						
	MSO	1 % v/v			14 EPP	A						
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A						
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B						
	NIS	0.25 % v/v			POST	B						
	Ammonium Sulfate	17 lb/100 gal			POST	B						
LSD (P=.05)							8.0042	0.2312	4.4206	10.4604	0.3424	3.3671
Standard Deviation							4.6659	0.1348	2.5241	6.0977	0.1996	1.9225
CV							11.13	1.21	4.23	14.5	1.77	3.21
Grand Mean							41.92	11.1	59.72	42.05	11.27	59.87
Bartlett's X2							13.798	23.218	11.615	10.062	33.18	14.899
P(Bartlett's X2)							0.13	0.006*	0.169	0.345	0.001*	0.061
Replicate F							2.024	0.359	0.615	0.899	2.418	0.049
Replicate Prob(F)							0.1611	0.7031	0.5546	0.4245	0.1175	0.9522
Treatment F							3.109	0.331	0.786	2.464	1.613	0.822
Treatment Prob(F)							0.0194	0.9530	0.6229	0.0494	0.1854	0.5969

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	Brome	Tansy Mustard	Tansy Mustard	Tansy Mustard	Dandelion	
Rating Date							06-30-09	05-25-09	05-25-09	07-30-09	07-30-09	05-25-09	
Rating Type							Injury	Control	Control	Control	Density	Control	
Rating Unit							%	Percent	Percent	Percent	m2 RunCH	Percent	
Days After First/Last Applic.							47 47	11 11	11 11	77 29	77 29	11 11	
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	7	8	9	10	11	12
1	Nontreated Check						A	0.0 a	0.0 b	0.0 b	0.0 b	0.0 a	0.0 e
	Nontreated Check						B						
2	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	0.0 a	99.0 a	99.0 a	99.0 a	2.0 a	51.7 d
	NIS	0.25 % v/v				14 EPP	A						
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A						
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B						
	NIS	0.25 % v/v				POST	B						
	Ammonium Sulfate	17 lb/100 gal				POST	B						
3	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	0.0 a	97.7 a	99.0 a	99.0 a	4.3 a	70.0 c
	2,4-D LV Ester	16 oz/a		530 g a/ha		14 EPP	A						
	NIS	0.25 % v/v				14 EPP	A						
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A						
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B						
	NIS	0.25 % v/v				POST	B						
	Ammonium Sulfate	17 lb/100 gal				POST	B						
4	SHARPEN (BAS 80004)	1 oz/a		25 g a/ha		14 EPP	A	0.0 a	99.0 a	99.0 a	99.0 a	2.7 a	96.0 ab
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A						
	MSO	1 % v/v				14 EPP	A						
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A						
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B						
	NIS	0.25 % v/v				POST	B						
	Ammonium Sulfate	17 lb/100 gal				POST	B						
5	OPTILL (BAS 80400)	2 oz/a		95 g a/ha		14 EPP	A	0.0 a	99.0 a	99.0 a	99.0 a	1.0 a	99.0 a
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A						
	MSO	1 % v/v				14 EPP	A						
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A						
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B						
	NIS	0.25 % v/v				POST	B						
	Ammonium Sulfate	17 lb/100 gal				POST	B						
6	SHARPEN (BAS 80004)	1 oz/a		25 g a/ha		14 EPP	A	0.0 a	92.7 a	99.0 a	99.0 a	1.5 a	97.0 a
	Extreme	48 oz/a		696 g a/ha		14 EPP	A						
	MSO	1 % v/v				14 EPP	A						
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A						
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B						
	NIS	0.25 % v/v				POST	B						
	Ammonium Sulfate	17 lb/100 gal				POST	B						
7	SHARPEN (BAS 80004)	1 oz/a		25 g a/ha		14 EPP	A	0.0 a	97.7 a	99.0 a	99.0 a	2.7 a	97.7 a
	PROWL H2O	32 oz/a		1060 g a/ha		14 EPP	A						
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A						
	MSO	1 % v/v				14 EPP	A						
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A						
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B						
	NIS	0.25 % v/v				POST	B						
	Ammonium Sulfate	17 lb/100 gal				POST	B						

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Description							Soybean	Brome	Tansy Mustard	Tansy Mustard	Tansy Mustard	Dandelion	
Rating Date							06-30-09	05-25-09	05-25-09	07-30-09	07-30-09	05-25-09	
Rating Type							Injury	Control	Control	Control	Density	Control	
Rating Unit							%	Percent	Percent	Percent	m2 RunCH	Percent	
Days After First/Last Applic.							47 47	11 11	11 11	77 29	77 29	11 11	
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	7	8	9	10	11	12
8	Authority Assist	5	oz/a			14 EPP	A	0.0 a	99.0 a	99.0 a	99.0 a	2.3 a	83.3 bc
	Roundup Powermax	22	oz/a	870	g a/ha	14 EPP	A						
	MSO	1	% v/v			14 EPP	A						
	Ammonium Sulfate	17	lb/100 gal			14 EPP	A						
	Roundup Powermax	22	oz/a	870	g a/ha	POST	B						
	NIS	0.25	% v/v			POST	B						
	Ammonium Sulfate	17	lb/100 gal			POST	B						
9	Authority Assist	6	oz/a			14 EPP	A	0.0 a	96.0 a	99.0 a	99.0 a	2.0 a	90.7 ab
	Roundup Powermax	22	oz/a	870	g a/ha	14 EPP	A						
	MSO	1	% v/v			14 EPP	A						
	Ammonium Sulfate	17	lb/100 gal			14 EPP	A						
	Roundup Powermax	22	oz/a	870	g a/ha	POST	B						
	NIS	0.25	% v/v			POST	B						
	Ammonium Sulfate	17	lb/100 gal			POST	B						
10	Authority Assist	8	oz/a			14 EPP	A	0.0 a	96.0 a	99.0 a	99.0 a	1.3 a	92.3 ab
	Roundup Powermax	22	oz/a	870	g a/ha	14 EPP	A						
	MSO	1	% v/v			14 EPP	A						
	Ammonium Sulfate	17	lb/100 gal			14 EPP	A						
	Roundup Powermax	22	oz/a	870	g a/ha	POST	B						
	NIS	0.25	% v/v			POST	B						
	Ammonium Sulfate	17	lb/100 gal			POST	B						
LSD (P=.05)							0.00	6.62	0.00	0.00	2.35	13.36	
Standard Deviation							0.00	3.86	0.00	0.00	1.36	7.79	
CV							0.0	4.4	0.0	0.0	68.65	10.01	
Grand Mean							0.0	87.6	89.1	89.1	1.98	77.77	
Bartlett's X2							0.0	6.157	0.0	0.0	6.31	18.787	
P(Bartlett's X2)							.	0.188	.	.	0.389	0.009*	
Replicate F							0.000	3.435	0.000	0.000	6.019	1.401	
Replicate Prob(F)							1.0000	0.0545	1.0000	1.0000	0.0106	0.2720	
Treatment F							0.000	191.854	0.000	0.000	2.182	48.089	
Treatment Prob(F)							1.0000	0.0001	1.0000	1.0000	0.0793	0.0001	

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Description							Dandelion	Dandelion	Dandelion	Pennycress	Pennycress	Pennycress
Rating Date							06-30-09	07-30-09	07-30-09	05-25-09	06-30-09	07-30-09
Rating Type							Control	Control	Density	Control	Control	Control
Rating Unit							Percent	Percent	m2 RunCH	Percent	Percent	Percent
Days After First/Last Applic.							47 47	77 29	77 29	11 11	47 47	77 29
Trt-Eval Interval												
Trt No.	Treatment Name	Rate	Other Rate	Other Rate Unit	Growth Stage	Appl Code	13	14	15	16	17	18
8	Authority Assist	5 oz/a			14 EPP	A	48.3 c	99.0 a	10.0 a	99.0 a	99.0 a	99.0 a
	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A						
	MSO	1 % v/v			14 EPP	A						
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A						
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B						
	NIS	0.25 % v/v			POST	B						
	Ammonium Sulfate	17 lb/100 gal			POST	B						
9	Authority Assist	6 oz/a			14 EPP	A	55.0 bc	97.3 a	11.7 a	99.0 a	99.0 a	99.0 a
	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A						
	MSO	1 % v/v			14 EPP	A						
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A						
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B						
	NIS	0.25 % v/v			POST	B						
	Ammonium Sulfate	17 lb/100 gal			POST	B						
10	Authority Assist	8 oz/a			14 EPP	A	66.7 abc	98.3 a	8.7 a	99.0 a	99.0 a	99.0 a
	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A						
	MSO	1 % v/v			14 EPP	A						
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A						
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B						
	NIS	0.25 % v/v			POST	B						
	Ammonium Sulfate	17 lb/100 gal			POST	B						
LSD (P=.05)							32.44	1.84	6.27	0.00	0.00	0.00
Standard Deviation							18.91	1.07	3.64	0.00	0.00	0.00
CV							30.66	1.21	38.58	0.0	0.0	0.0
Grand Mean							61.67	88.57	9.43	89.1	89.1	89.1
Bartlett's X2							7.106	5.688	8.387	0.0	0.0	0.0
P(Bartlett's X2)							0.525	0.338	0.30	.	.	.
Replicate F							0.114	2.286	0.259	0.000	0.000	0.000
Replicate Prob(F)							0.8927	0.1304	0.7746	1.0000	1.0000	1.0000
Treatment F							5.563	2523.026	3.065	0.000	0.000	0.000
Treatment Prob(F)							0.0010	0.0001	0.0224	1.0000	1.0000	1.0000

Description		Pennycrest		Marestail		Marestail		Marestail		Marestail		Green foxtail	
Rating Date		07-30-09		05-25-09		06-30-09		07-30-09		07-30-09		06-30-09	
Rating Type		Density		Control		Control		Control		Density		Control	
Rating Unit		m2 RunCH		Percent		Percent		Percent		m2 RunCH		Percent	
Days After First/Last Applic.		77 29		11 11		47 47		77 29		77 29		47 47	
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	19	20	21	22	23	24
1	Nontreated Check						A	0.0 a	0.0 c	0.0 c	0.0 b	0.0 a	0.0 d
	Nontreated Check						B						
2	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	3.3 a	96.0 b	99.0 a	99.0 a	2.3 a	0.0 d
	NIS	0.25 % v/v				14 EPP	A						
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A						
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B						
	NIS	0.25 % v/v				POST	B						
	Ammonium Sulfate	17 lb/100 gal				POST	B						
3	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	1.3 a	99.0 a	96.7 a	99.0 a	3.7 a	0.0 d
	2,4-D LV Ester	16 oz/a		530 g a/ha		14 EPP	A						
	NIS	0.25 % v/v				14 EPP	A						
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A						
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B						
	NIS	0.25 % v/v				POST	B						
	Ammonium Sulfate	17 lb/100 gal				POST	B						
4	SHARPEN (BAS 80004)	1 oz/a		25 g a/ha		14 EPP	A	0.7 a	99.0 a	99.0 a	99.0 a	1.3 a	20.0 c
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A						
	MSO	1 % v/v				14 EPP	A						
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A						
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B						
	NIS	0.25 % v/v				POST	B						
	Ammonium Sulfate	17 lb/100 gal				POST	B						
5	OPTILL (BAS 80400)	2 oz/a		95 g a/ha		14 EPP	A	0.7 a	99.0 a	99.0 a	99.0 a	1.0 a	96.3 a
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A						
	MSO	1 % v/v				14 EPP	A						
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A						
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B						
	NIS	0.25 % v/v				POST	B						
	Ammonium Sulfate	17 lb/100 gal				POST	B						
6	SHARPEN (BAS 80004)	1 oz/a		25 g a/ha		14 EPP	A	1.5 a	99.0 a	99.0 a	99.0 a	4.0 a	97.0 a
	Extreme	48 oz/a		696 g a/ha		14 EPP	A						
	MSO	1 % v/v				14 EPP	A						
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A						
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B						
	NIS	0.25 % v/v				POST	B						
	Ammonium Sulfate	17 lb/100 gal				POST	B						
7	SHARPEN (BAS 80004)	1 oz/a		25 g a/ha		14 EPP	A	1.0 a	99.0 a	96.0 a	99.0 a	1.7 a	80.0 b
	PROWL H2O	32 oz/a		1060 g a/ha		14 EPP	A						
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A						
	MSO	1 % v/v				14 EPP	A						
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A						
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B						
	NIS	0.25 % v/v				POST	B						
	Ammonium Sulfate	17 lb/100 gal				POST	B						

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Description							Pennycress	Marestail	Marestail	Marestail	Marestail	Green foxtail	
Rating Date							07-30-09	05-25-09	06-30-09	07-30-09	07-30-09	06-30-09	
Rating Type							Density	Control	Control	Control	Density	Control	
Rating Unit							m2 RunCH	Percent	Percent	Percent	m2 RunCH	Percent	
Days After First/Last Applic.							77 29	11 11	47 47	77 29	77 29	47 47	
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	19	20	21	22	23	24
8	Authority Assist	5	oz/a			14 EPP	A	0.7 a	99.0 a	90.0 b	99.0 a	4.0 a	94.7 a
	Roundup Powermax	22	oz/a	870	g a/ha	14 EPP	A						
	MSO	1	% v/v			14 EPP	A						
	Ammonium Sulfate	17	lb/100 gal			14 EPP	A						
	Roundup Powermax	22	oz/a	870	g a/ha	POST	B						
	NIS	0.25	% v/v			POST	B						
	Ammonium Sulfate	17	lb/100 gal			POST	B						
9	Authority Assist	6	oz/a			14 EPP	A	1.3 a	99.0 a	87.3 b	99.0 a	2.7 a	94.7 a
	Roundup Powermax	22	oz/a	870	g a/ha	14 EPP	A						
	MSO	1	% v/v			14 EPP	A						
	Ammonium Sulfate	17	lb/100 gal			14 EPP	A						
	Roundup Powermax	22	oz/a	870	g a/ha	POST	B						
	NIS	0.25	% v/v			POST	B						
	Ammonium Sulfate	17	lb/100 gal			POST	B						
10	Authority Assist	8	oz/a			14 EPP	A	1.0 a	99.0 a	85.0 b	99.0 a	3.0 a	97.7 a
	Roundup Powermax	22	oz/a	870	g a/ha	14 EPP	A						
	MSO	1	% v/v			14 EPP	A						
	Ammonium Sulfate	17	lb/100 gal			14 EPP	A						
	Roundup Powermax	22	oz/a	870	g a/ha	POST	B						
	NIS	0.25	% v/v			POST	B						
	Ammonium Sulfate	17	lb/100 gal			POST	B						
LSD (P=.05)							1.93	2.82	5.96	0.00	3.38	9.13	
Standard Deviation							1.12	1.64	3.45	0.00	1.96	5.32	
CV							97.22	1.85	4.05	0.0	82.79	9.17	
Grand Mean							1.15	88.8	85.1	89.1	2.37	58.03	
Bartlett's X2							11.881	0.0	0.405	0.0	14.8	9.347	
P(Bartlett's X2)							0.105	.	0.939	.	0.039*	0.155	
Replicate F							4.500	1.000	1.238	0.000	0.009	0.019	
Replicate Prob(F)							0.0270	0.3874	0.3162	1.0000	0.9914	0.9814	
Treatment F							1.873	1082.667	232.965	0.000	1.436	226.916	
Treatment Prob(F)							0.1267	0.0001	0.0001	1.0000	0.2485	0.0001	

Description							Green foxtail	Green foxtail	Velvetleaf	Velvetleaf	Velvetleaf	Velvetleaf	
Rating Date							07-30-09	07-30-09	05-25-09	06-30-09	07-30-09	07-30-09	
Rating Type							Control	Density	Control	Control	Control	Density	
Rating Unit							Percent	m2 RunCH	Percent	Percent	Percent	m2 RunCH	
Days After First/Last Applic.							77 29	77 29	11 11	47 47	77 29	77 29	
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	25	26	27	28	29	30
1	Nontreated Check						A	0.0 c	0.0 a	0.0 d	0.0 d	0.0 b	0.0 a
	Nontreated Check						B						
2	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	98.7 b	7.3 a	85.0 c	0.0 d	99.0 a	1.3 a
	NIS	0.25 % v/v				14 EPP	A						
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A						
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B						
	NIS	0.25 % v/v				POST	B						
	Ammonium Sulfate	17 lb/100 gal				POST	B						
3	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	99.0 a	5.7 a	89.7 bc	0.0 d	99.0 a	3.3 a
	2,4-D LV Ester	16 oz/a		530 g a/ha		14 EPP	A						
	NIS	0.25 % v/v				14 EPP	A						
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A						
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B						
	NIS	0.25 % v/v				POST	B						
	Ammonium Sulfate	17 lb/100 gal				POST	B						
4	SHARPEN (BAS 80004)	1 oz/a		25 g a/ha		14 EPP	A	99.0 a	6.0 a	96.0 ab	50.0 c	99.0 a	3.3 a
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A						
	MSO	1 % v/v				14 EPP	A						
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A						
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B						
	NIS	0.25 % v/v				POST	B						
	Ammonium Sulfate	17 lb/100 gal				POST	B						
5	OPTILL (BAS 80400)	2 oz/a		95 g a/ha		14 EPP	A	99.0 a	8.7 a	96.0 ab	89.7 a	99.0 a	2.0 a
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A						
	MSO	1 % v/v				14 EPP	A						
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A						
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B						
	NIS	0.25 % v/v				POST	B						
	Ammonium Sulfate	17 lb/100 gal				POST	B						
6	SHARPEN (BAS 80004)	1 oz/a		25 g a/ha		14 EPP	A	99.0 a	10.0 a	99.0 a	96.3 a	99.0 a	2.5 a
	Extreme	48 oz/a		696 g a/ha		14 EPP	A						
	MSO	1 % v/v				14 EPP	A						
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A						
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B						
	NIS	0.25 % v/v				POST	B						
	Ammonium Sulfate	17 lb/100 gal				POST	B						
7	SHARPEN (BAS 80004)	1 oz/a		25 g a/ha		14 EPP	A	99.0 a	6.0 a	99.0 a	85.0 ab	99.0 a	1.7 a
	PROWL H2O	32 oz/a		1060 g a/ha		14 EPP	A						
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A						
	MSO	1 % v/v				14 EPP	A						
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A						
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B						
	NIS	0.25 % v/v				POST	B						
	Ammonium Sulfate	17 lb/100 gal				POST	B						

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Description							Green foxtail	Green foxtail	Velvetleaf	Velvetleaf	Velvetleaf	Velvetleaf
Rating Date							07-30-09	07-30-09	05-25-09	06-30-09	07-30-09	07-30-09
Rating Type							Control	Density	Control	Control	Control	Density
Rating Unit							Percent	m2 RunCH	Percent	Percent	Percent	m2 RunCH
Days After First/Last Applic.							77 29	77 29	11 11	47 47	77 29	77 29
Trt-Eval Interval												
Trt No.	Treatment Name	Rate	Other Rate	Other Rate Unit	Growth Stage	Appl Code	25	26	27	28	29	30
8	Authority Assist	5 oz/a			14 EPP	A	99.0 a	10.0 a	99.0 a	75.0 b	99.0 a	3.3 a
	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A						
	MSO	1 % v/v			14 EPP	A						
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A						
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B						
	NIS	0.25 % v/v			POST	B						
	Ammonium Sulfate	17 lb/100 gal			POST	B						
9	Authority Assist	6 oz/a			14 EPP	A	99.0 a	5.0 a	99.0 a	97.0 a	99.0 a	4.3 a
	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A						
	MSO	1 % v/v			14 EPP	A						
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A						
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B						
	NIS	0.25 % v/v			POST	B						
	Ammonium Sulfate	17 lb/100 gal			POST	B						
10	Authority Assist	8 oz/a			14 EPP	A	99.0 a	8.0 a	99.0 a	93.0 a	99.0 a	4.0 a
	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A						
	MSO	1 % v/v			14 EPP	A						
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A						
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B						
	NIS	0.25 % v/v			POST	B						
	Ammonium Sulfate	17 lb/100 gal			POST	B						
LSD (P=.05)							0.31	7.48	7.82	13.02	0.00	3.11
Standard Deviation							0.18	4.34	4.56	7.59	0.00	1.80
CV							0.2	65.11	5.29	12.95	0.0	69.81
Grand Mean							89.07	6.67	86.17	58.6	89.1	2.58
Bartlett's X2							0.0	10.704	1.138	10.436	0.0	9.449
P(Bartlett's X2)							.	0.098	0.768	0.107	.	0.222
Replicate F							1.000	1.371	1.551	0.574	0.000	2.032
Replicate Prob(F)							0.3874	0.2805	0.2392	0.5730	1.0000	0.1617
Treatment F							88144.009	1.372	135.572	94.811	0.000	1.659
Treatment Prob(F)							0.0001	0.2743	0.0001	0.0001	1.0000	0.1764

Description								Waterhemp	Waterhemp
Rating Date								07-30-09	07-30-09
Rating Type								Control	Density
Rating Unit								Percent	m2 RunCH
Days After First/Last Applic.								77 29	77 29
Trt-Eval Interval									
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	31	32
1	Nontreated Check						A	0.0 b	0.0 a
	Nontreated Check						B		
2	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	99.0 a	1.7 a
	NIS	0.25 % v/v				14 EPP	A		
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A		
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B		
	NIS	0.25 % v/v				POST	B		
	Ammonium Sulfate	17 lb/100 gal				POST	B		
3	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	99.0 a	3.0 a
	2,4-D LV Ester	16 oz/a		530 g a/ha		14 EPP	A		
	NIS	0.25 % v/v				14 EPP	A		
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A		
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B		
	NIS	0.25 % v/v				POST	B		
	Ammonium Sulfate	17 lb/100 gal				POST	B		
4	SHARPEN (BAS 80004)	1 oz/a		25 g a/ha		14 EPP	A	99.0 a	3.7 a
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A		
	MSO	1 % v/v				14 EPP	A		
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A		
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B		
	NIS	0.25 % v/v				POST	B		
	Ammonium Sulfate	17 lb/100 gal				POST	B		
5	OPTILL (BAS 80400)	2 oz/a		95 g a/ha		14 EPP	A	99.0 a	5.0 a
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A		
	MSO	1 % v/v				14 EPP	A		
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A		
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B		
	NIS	0.25 % v/v				POST	B		
	Ammonium Sulfate	17 lb/100 gal				POST	B		
6	SHARPEN (BAS 80004)	1 oz/a		25 g a/ha		14 EPP	A	99.0 a	2.5 a
	Extreme	48 oz/a		696 g a/ha		14 EPP	A		
	MSO	1 % v/v				14 EPP	A		
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A		
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B		
	NIS	0.25 % v/v				POST	B		
	Ammonium Sulfate	17 lb/100 gal				POST	B		
7	SHARPEN (BAS 80004)	1 oz/a		25 g a/ha		14 EPP	A	99.0 a	3.0 a
	PROWL H2O	32 oz/a		1060 g a/ha		14 EPP	A		
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A		
	MSO	1 % v/v				14 EPP	A		
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A		
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B		
	NIS	0.25 % v/v				POST	B		
	Ammonium Sulfate	17 lb/100 gal				POST	B		

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Description							Waterhemp	Waterhemp
Rating Date							07-30-09	07-30-09
Rating Type							Control	Density
Rating Unit							Percent	m ² RunCH
Days After First/Last Applic.							77 29	77 29
Trt-Eval Interval								
Trt No.	Treatment Name	Rate	Other Rate	Other Rate Unit	Growth Stage	Appl Code	31	32
8	Authority Assist	5 oz/a			14 EPP	A	99.0 a	3.0 a
	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A		
	MSO	1 % v/v			14 EPP	A		
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A		
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B		
	NIS	0.25 % v/v			POST	B		
	Ammonium Sulfate	17 lb/100 gal			POST	B		
9	Authority Assist	6 oz/a			14 EPP	A	99.0 a	2.3 a
	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A		
	MSO	1 % v/v			14 EPP	A		
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A		
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B		
	NIS	0.25 % v/v			POST	B		
	Ammonium Sulfate	17 lb/100 gal			POST	B		
10	Authority Assist	8 oz/a			14 EPP	A	99.0 a	4.3 a
	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A		
	MSO	1 % v/v			14 EPP	A		
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A		
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B		
	NIS	0.25 % v/v			POST	B		
	Ammonium Sulfate	17 lb/100 gal			POST	B		
LSD (P=.05)							0.00	4.21
Standard Deviation							0.00	2.43
CV							0.0	85.42
Grand Mean							89.1	2.85
Bartlett's X2							0.0	13.682
P(Bartlett's X2)							.	0.09
Replicate F							0.000	0.536
Replicate Prob(F)							1.0000	0.5954
Treatment F							0.000	0.983
Treatment Prob(F)							1.0000	0.4894

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2009 Kixor Soybean (north) Preplant efficacy in no-till 2009 FMC burndown treatments with residual

Trial ID: 09 SRR-2 Kixor FMC BD Protocol ID: 09 SRR-2 Kixor FMC BD
Location: Concord, NE Study Director:
Project ID: DEM-H-2009-US-D91-A-2.0 Investigator: Stevan Knezevic
Sponsor Contact:

Rating Unit

% = percent

Percent = percent

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2009 Kixor Soybean (north) Preplant efficacy in no-till 2009 FMC burndown treatments with residual

Trial ID: 09 SRR-2 Kixor FMC BD Protocol ID: 09 SRR-2 Kixor FMC BD
 Location: Concord, NE Study Director:
 Project ID: DEM-H-2009-US-D91-A-2.0 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.								177 129	177 129	177 129	177 129	177 129	177 129
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Growth Stage	Appl Code	Plot	1	2	3	4	5	6
1	Nontreated Check					A	101	29.520	11.400		29.920	11.330	
	Nontreated Check					B	207	33.320	11.030		30.230	11.380	
							310	29.990	10.950		23.860	11.070	
							Mean =	30.943	11.127		28.003	11.260	
2	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A	102	51.340	11.040	61.700	45.320	11.210	61.220
	NIS	0.25 % v/v			14 EPP	A	205	47.620	11.030	61.820	48.880	11.200	60.980
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A	309	35.530	11.290	54.180	27.200	11.080	
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B							
	NIS	0.25 % v/v			POST	B							
	Ammonium Sulfate	17 lb/100 gal			POST	B							
							Mean =	44.830	11.120	59.233	40.467	11.163	61.100
3	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A	103	49.880	11.060	61.460	50.760	11.110	61.220
	2,4-D LV Ester	16 oz/a	530 g a/ha		14 EPP	A	209	39.490	11.230	59.670	38.460	11.750	58.710
	NIS	0.25 % v/v			14 EPP	A	306	43.820	11.070	61.220	49.540	11.180	60.860
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A							
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B							
	NIS	0.25 % v/v			POST	B							
	Ammonium Sulfate	17 lb/100 gal			POST	B							
							Mean =	44.397	11.120	60.783	46.253	11.347	60.263
4	SHARPEN (BAS 80004)	1 oz/a	25 g a/ha		14 EPP	A	104	46.140	11.080	61.460	41.870	11.200	60.030
	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A	202	45.700	11.000	60.980	45.930	11.180	61.100
	MSO	1 % v/v			14 EPP	A	303	49.430	10.990	57.640	51.930	11.140	60.380
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A							
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B							
	NIS	0.25 % v/v			POST	B							
	Ammonium Sulfate	17 lb/100 gal			POST	B							
							Mean =	47.090	11.023	60.027	46.577	11.173	60.503
5	OPTILL (BAS 80400)	2 oz/a	95 g a/ha		14 EPP	A	105	45.790	10.930	61.700	50.400	11.190	60.740
	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A	206	44.970	11.040	61.580	49.080	11.130	61.100
	MSO	1 % v/v			14 EPP	A	301	29.460	11.430		32.500	11.200	
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A							
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B							
	NIS	0.25 % v/v			POST	B							
	Ammonium Sulfate	17 lb/100 gal			POST	B							
							Mean =	40.073	11.133	61.640	43.993	11.173	60.920

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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.								177	129	177	129	177	129	
Trt-Eval Interval														
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	Plot	1	2	3	4	5	6
6	SHARPEN (BAS 80004)	1 oz/a		25 g a/ha		14 EPP	A	106	39.950	11.050	54.660	46.080	11.200	60.500
	Extreme	48 oz/a		696 g a/ha		14 EPP	A	201	47.770	10.960	61.580	48.910	11.140	61.100
	MSO	1 % v/v				14 EPP	A	308	40.410	11.110	56.330	42.920	11.160	59.550
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A							
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B							
	NIS	0.25 % v/v				POST	B							
	Ammonium Sulfate	17 lb/100 gal				POST	B							
								Mean =	42.710	11.040	57.523	45.970	11.167	60.383
7	SHARPEN (BAS 80004)	1 oz/a		25 g a/ha		14 EPP	A	107	42.350	11.100	60.860	43.610	11.170	60.140
	PROWL H2O	32 oz/a		1060 g a/ha		14 EPP	A	204	40.800	11.070	57.040	41.280	11.200	59.670
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	307	40.680	11.100	58.470	37.240	11.190	54.420
	MSO	1 % v/v				14 EPP	A							
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A							
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B							
	NIS	0.25 % v/v				POST	B							
	Ammonium Sulfate	17 lb/100 gal				POST	B							
								Mean =	41.277	11.090	58.790	40.710	11.187	58.077
8	Authority Assist	5 oz/a				14 EPP	A	108	43.270	11.100	60.140	39.880	11.210	55.250
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	203	48.530	11.060	61.460	47.760	11.180	60.980
	MSO	1 % v/v				14 EPP	A	302	48.480	11.050	61.580	43.790	11.140	60.980
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A							
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B							
	NIS	0.25 % v/v				POST	B							
	Ammonium Sulfate	17 lb/100 gal				POST	B							
								Mean =	46.760	11.070	61.060	43.810	11.177	59.070
9	Authority Assist	6 oz/a				14 EPP	A	109	42.150	11.190	60.620	37.850	11.790	58.590
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	210	39.460	11.170	57.160	39.580	11.860	58.470
	MSO	1 % v/v				14 EPP	A	304	33.490	11.150		42.160	11.170	60.140
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A							
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B							
	NIS	0.25 % v/v				POST	B							
	Ammonium Sulfate	17 lb/100 gal				POST	B							
								Mean =	38.367	11.170	58.890	39.863	11.607	59.067
10	Authority Assist	8 oz/a				14 EPP	A	110	43.460	11.160	60.140	43.390	11.850	60.140
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	208	41.000	11.120	57.400	42.860	11.170	58.120
	MSO	1 % v/v				14 EPP	A	305	43.890	11.050	61.100	48.400	11.190	60.140
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A							
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B							
	NIS	0.25 % v/v				POST	B							
	Ammonium Sulfate	17 lb/100 gal				POST	B							
								Mean =	42.783	11.110	59.547	44.883	11.403	59.467

Description								Soybean	Brome	Tansy Mustard	Tansy Mustard	Tansy Mustard	Dandelion		
Rating Date								06-30-09	05-25-09	05-25-09	07-30-09	07-30-09	05-25-09		
Rating Type								Injury	Control	Control	Control	Density	Control		
Rating Unit								%	Percent	Percent	Percent	m2 RunCH	Percent		
Days After First/Last Applic.								47	47	11	11	77	29	11	11
Trt-Eval Interval															
Trt No.	Treatment Name	Rate	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	7	8	9	10	11	12		
1	Nontreated Check					A	101	0.0	0.0	0.0	0.0	0.0	0.0		
	Nontreated Check					B	207	0.0	0.0	0.0	0.0	0.0	0.0		
							310	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	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A	102	0.0	99.0	99.0	99.0	1.0	75.0		
	NIS	0.25 % v/v			14 EPP	A	205	0.0	99.0	99.0	99.0	2.0	50.0		
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A	309	0.0	99.0	99.0	99.0	3.0	30.0		
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B									
	NIS	0.25 % v/v			POST	B									
	Ammonium Sulfate	17 lb/100 gal			POST	B									
							Mean =	0.0	99.0	99.0	99.0	2.0	51.7		
3	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A	103	0.0	99.0	99.0	99.0	3.0	75.0		
	2,4-D LV Ester	16 oz/a	530 g a/ha		14 EPP	A	209	0.0	99.0	99.0	99.0	2.0	70.0		
	NIS	0.25 % v/v			14 EPP	A	306	0.0	95.0	99.0	99.0	8.0	65.0		
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A									
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B									
	NIS	0.25 % v/v			POST	B									
	Ammonium Sulfate	17 lb/100 gal			POST	B									
							Mean =	0.0	97.7	99.0	99.0	4.3	70.0		
4	SHARPEN (BAS 80004)	1 oz/a	25 g a/ha		14 EPP	A	104	0.0	99.0	99.0	99.0	0.0	90.0		
	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A	202	0.0	99.0	99.0	99.0	3.0	99.0		
	MSO	1 % v/v			14 EPP	A	303	0.0	99.0	99.0	99.0	5.0	99.0		
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A									
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B									
	NIS	0.25 % v/v			POST	B									
	Ammonium Sulfate	17 lb/100 gal			POST	B									
							Mean =	0.0	99.0	99.0	99.0	2.7	96.0		
5	OPTILL (BAS 80400)	2 oz/a	95 g a/ha		14 EPP	A	105	0.0	99.0	99.0	99.0	1.0	99.0		
	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A	206	0.0	99.0	99.0	99.0	1.0	99.0		
	MSO	1 % v/v			14 EPP	A	301	0.0	99.0	99.0	99.0	1.0	99.0		
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A									
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B									
	NIS	0.25 % v/v			POST	B									
	Ammonium Sulfate	17 lb/100 gal			POST	B									
							Mean =	0.0	99.0	99.0	99.0	1.0	99.0		

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Description									Soybean	Brome	Tansy Mustard	Tansy Mustard	Tansy Mustard	Dandelion		
Rating Date									06-30-09	05-25-09	05-25-09	07-30-09	07-30-09	05-25-09		
Rating Type									Injury	Control	Control	Control	Density	Control		
Rating Unit									%	Percent	Percent	Percent	m2 RunCH	Percent		
Days After First/Last Applic.									47	47	11	11	77	29	11	11
Trt-Eval Interval																
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	Plot	7	8	9	10	11	12		
6	SHARPEN (BAS 80004)	1 oz/a		25 g a/ha		14 EPP	A	106	0.0	80.0	99.0	99.0	1.0	95.0		
	Extreme	48 oz/a		696 g a/ha		14 EPP	A	201	0.0	99.0	99.0	99.0		97.0		
	MSO	1 % v/v				14 EPP	A	308	0.0	99.0	99.0	99.0	2.0	99.0		
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A									
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B									
	NIS	0.25 % v/v				POST	B									
	Ammonium Sulfate	17 lb/100 gal				POST	B									
								Mean =	0.0	92.7	99.0	99.0	1.5	97.0		
7	SHARPEN (BAS 80004)	1 oz/a		25 g a/ha		14 EPP	A	107	0.0	95.0	99.0	99.0	1.0	99.0		
	PROWL H2O	32 oz/a		1060 g a/ha		14 EPP	A	204	0.0	99.0	99.0	99.0	2.0	99.0		
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	307	0.0	99.0	99.0	99.0	5.0	95.0		
	MSO	1 % v/v				14 EPP	A									
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A									
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B									
	NIS	0.25 % v/v				POST	B									
	Ammonium Sulfate	17 lb/100 gal				POST	B									
								Mean =	0.0	97.7	99.0	99.0	2.7	97.7		
8	Authority Assist	5 oz/a				14 EPP	A	108	0.0	99.0	99.0	99.0	0.0	85.0		
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	203	0.0	99.0	99.0	99.0	4.0	80.0		
	MSO	1 % v/v				14 EPP	A	302	0.0	99.0	99.0	99.0	3.0	85.0		
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A									
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B									
	NIS	0.25 % v/v				POST	B									
	Ammonium Sulfate	17 lb/100 gal				POST	B									
								Mean =	0.0	99.0	99.0	99.0	2.3	83.3		
9	Authority Assist	6 oz/a				14 EPP	A	109	0.0	90.0	99.0	99.0	2.0	90.0		
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	210	0.0	99.0	99.0	99.0	2.0	97.0		
	MSO	1 % v/v				14 EPP	A	304	0.0	99.0	99.0	99.0	2.0	85.0		
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A									
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B									
	NIS	0.25 % v/v				POST	B									
	Ammonium Sulfate	17 lb/100 gal				POST	B									
								Mean =	0.0	96.0	99.0	99.0	2.0	90.7		
10	Authority Assist	8 oz/a				14 EPP	A	110	0.0	90.0	99.0	99.0	1.0	97.0		
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	208	0.0	99.0	99.0	99.0	1.0	90.0		
	MSO	1 % v/v				14 EPP	A	305	0.0	99.0	99.0	99.0	2.0	90.0		
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A									
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B									
	NIS	0.25 % v/v				POST	B									
	Ammonium Sulfate	17 lb/100 gal				POST	B									
								Mean =	0.0	96.0	99.0	99.0	1.3	92.3		

Description								Dandelion	Dandelion	Dandelion	Pennycress	Pennycress	Pennycress
Rating Date								06-30-09	07-30-09	07-30-09	05-25-09	06-30-09	07-30-09
Rating Type								Control	Control	Density	Control	Control	Control
Rating Unit								Percent	Percent	m2 RunCH	Percent	Percent	Percent
Days After First/Last Applic.								47 47	77 29	77 29	11 11	47 47	77 29
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	13	14	15	16	17	18
1	Nontreated Check					A	101	0.0	0.0	0.0	0.0	0.0	0.0
	Nontreated Check					B	207	0.0	0.0	0.0	0.0	0.0	0.0
							310	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	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A	102	90.0	99.0	10.0	99.0	99.0	99.0
	NIS	0.25 % v/v			14 EPP	A	205	80.0	99.0	8.0	99.0	99.0	99.0
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A	309	60.0	98.0	10.0	99.0	99.0	99.0
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B							
	NIS	0.25 % v/v			POST	B							
	Ammonium Sulfate	17 lb/100 gal			POST	B							
							Mean =	76.7	98.7	9.3	99.0	99.0	99.0
3	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A	103	90.0	95.0	15.0	99.0	99.0	99.0
	2,4-D LV Ester	16 oz/a	530 g a/ha		14 EPP	A	209	85.0	99.0	10.0	99.0	99.0	99.0
	NIS	0.25 % v/v			14 EPP	A	306	90.0	99.0	15.0	99.0	99.0	99.0
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A							
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B							
	NIS	0.25 % v/v			POST	B							
	Ammonium Sulfate	17 lb/100 gal			POST	B							
							Mean =	88.3	97.7	13.3	99.0	99.0	99.0
4	SHARPEN (BAS 80004)	1 oz/a	25 g a/ha		14 EPP	A	104	50.0	97.0	8.0	99.0	99.0	99.0
	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A	202	70.0	99.0	20.0	99.0	99.0	99.0
	MSO	1 % v/v			14 EPP	A	303	85.0	99.0	10.0	99.0	99.0	99.0
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A							
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B							
	NIS	0.25 % v/v			POST	B							
	Ammonium Sulfate	17 lb/100 gal			POST	B							
							Mean =	68.3	98.3	12.7	99.0	99.0	99.0
5	OPTILL (BAS 80400)	2 oz/a	95 g a/ha		14 EPP	A	105	90.0	99.0	6.0	99.0	99.0	99.0
	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A	206	90.0	99.0	10.0	99.0	99.0	99.0
	MSO	1 % v/v			14 EPP	A	301	65.0	99.0	10.0	99.0	99.0	99.0
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A							
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B							
	NIS	0.25 % v/v			POST	B							
	Ammonium Sulfate	17 lb/100 gal			POST	B							
							Mean =	81.7	99.0	8.7	99.0	99.0	99.0

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Description									Dandelion	Dandelion	Dandelion	Pennycress	Pennycress	Pennycress
Rating Date									06-30-09	07-30-09	07-30-09	05-25-09	06-30-09	07-30-09
Rating Type									Control	Control	Density	Control	Control	Control
Rating Unit									Percent	Percent	m2 RunCH	Percent	Percent	Percent
Days After First/Last Applic.									47 47	77 29	77 29	11 11	47 47	77 29
Trt-Eval Interval														
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	Plot	13	14	15	16	17	18
6	SHARPEN (BAS 80004)	1 oz/a		25 g a/ha		14 EPP	A	106	80.0	98.0	10.0	99.0	99.0	99.0
	Extreme	48 oz/a		696 g a/ha		14 EPP	A	201	70.0	98.0		99.0	99.0	99.0
	MSO	1 % v/v				14 EPP	A	308	95.0	99.0	10.0	99.0	99.0	99.0
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A							
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B							
	NIS	0.25 % v/v				POST	B							
	Ammonium Sulfate	17 lb/100 gal				POST	B							
	Mean =								81.7	98.3	10.0	99.0	99.0	99.0
7	SHARPEN (BAS 80004)	1 oz/a		25 g a/ha		14 EPP	A	107	70.0	99.0	15.0	99.0	99.0	99.0
	PROWL H2O	32 oz/a		1060 g a/ha		14 EPP	A	204	40.0	99.0	10.0	99.0	99.0	99.0
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	307	40.0	99.0	5.0	99.0	99.0	99.0
	MSO	1 % v/v				14 EPP	A							
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A							
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B							
	NIS	0.25 % v/v				POST	B							
	Ammonium Sulfate	17 lb/100 gal				POST	B							
	Mean =								50.0	99.0	10.0	99.0	99.0	99.0
8	Authority Assist	5 oz/a				14 EPP	A	108	25.0	99.0	10.0	99.0	99.0	99.0
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	203	40.0	99.0	15.0	99.0	99.0	99.0
	MSO	1 % v/v				14 EPP	A	302	80.0	99.0	5.0	99.0	99.0	99.0
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A							
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B							
	NIS	0.25 % v/v				POST	B							
	Ammonium Sulfate	17 lb/100 gal				POST	B							
	Mean =								48.3	99.0	10.0	99.0	99.0	99.0
9	Authority Assist	6 oz/a				14 EPP	A	109	40.0	95.0	10.0	99.0	99.0	99.0
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	210	85.0	99.0	10.0	99.0	99.0	99.0
	MSO	1 % v/v				14 EPP	A	304	40.0	98.0	15.0	99.0	99.0	99.0
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A							
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B							
	NIS	0.25 % v/v				POST	B							
	Ammonium Sulfate	17 lb/100 gal				POST	B							
	Mean =								55.0	97.3	11.7	99.0	99.0	99.0
10	Authority Assist	8 oz/a				14 EPP	A	110	85.0	99.0	8.0	99.0	99.0	99.0
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	208	75.0	99.0	8.0	99.0	99.0	99.0
	MSO	1 % v/v				14 EPP	A	305	40.0	97.0	10.0	99.0	99.0	99.0
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A							
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B							
	NIS	0.25 % v/v				POST	B							
	Ammonium Sulfate	17 lb/100 gal				POST	B							
	Mean =								66.7	98.3	8.7	99.0	99.0	99.0

Description								Pennycress	Marestail	Marestail	Marestail	Marestail	Green foxtail
Rating Date								07-30-09	05-25-09	06-30-09	07-30-09	07-30-09	06-30-09
Rating Type								Density	Control	Control	Control	Density	Control
Rating Unit								m2 RunCH	Percent	Percent	Percent	m2 RunCH	Percent
Days After First/Last Applic.								77 29	11 11	47 47	77 29	77 29	47 47
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	19	20	21	22	23	24
1	Nontreated Check					A	101	0.0	0.0	0.0	0.0	0.0	0.0
	Nontreated Check					B	207	0.0	0.0	0.0	0.0	0.0	0.0
							310	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	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A	102	1.0	90.0	99.0	99.0	2.0	0.0
	NIS	0.25 % v/v			14 EPP	A	205	2.0	99.0	99.0	99.0	2.0	0.0
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A	309	7.0	99.0	99.0	99.0	3.0	0.0
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B							
	NIS	0.25 % v/v			POST	B							
	Ammonium Sulfate	17 lb/100 gal			POST	B							
							Mean =	3.3	96.0	99.0	99.0	2.3	0.0
3	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A	103	0.0	99.0	99.0	99.0	4.0	0.0
	2,4-D LV Ester	16 oz/a	530 g a/ha		14 EPP	A	209	2.0	99.0	92.0	99.0	2.0	0.0
	NIS	0.25 % v/v			14 EPP	A	306	2.0	99.0	99.0	99.0	5.0	0.0
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A							
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B							
	NIS	0.25 % v/v			POST	B							
	Ammonium Sulfate	17 lb/100 gal			POST	B							
							Mean =	1.3	99.0	96.7	99.0	3.7	0.0
4	SHARPEN (BAS 80004)	1 oz/a	25 g a/ha		14 EPP	A	104	0.0	99.0	99.0	99.0	1.0	30.0
	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A	202	1.0	99.0	99.0	99.0	2.0	20.0
	MSO	1 % v/v			14 EPP	A	303	1.0	99.0	99.0	99.0	1.0	10.0
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A							
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B							
	NIS	0.25 % v/v			POST	B							
	Ammonium Sulfate	17 lb/100 gal			POST	B							
							Mean =	0.7	99.0	99.0	99.0	1.3	20.0
5	OPTILL (BAS 80400)	2 oz/a	95 g a/ha		14 EPP	A	105	0.0	99.0	99.0	99.0	1.0	95.0
	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A	206	1.0	99.0	99.0	99.0	1.0	95.0
	MSO	1 % v/v			14 EPP	A	301	1.0	99.0	99.0	99.0	1.0	99.0
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A							
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B							
	NIS	0.25 % v/v			POST	B							
	Ammonium Sulfate	17 lb/100 gal			POST	B							
							Mean =	0.7	99.0	99.0	99.0	1.0	96.3

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Description									Pennycress	Marestail	Marestail	Marestail	Marestail	Green foxtail
Rating Date									07-30-09	05-25-09	06-30-09	07-30-09	07-30-09	06-30-09
Rating Type									Density	Control	Control	Control	Density	Control
Rating Unit									m2 RunCH	Percent	Percent	Percent	m2 RunCH	Percent
Days After First/Last Applic.									77 29	11 11	47 47	77 29	77 29	47 47
Trt-Eval Interval														
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	Plot	19	20	21	22	23	24
6	SHARPEN (BAS 80004)	1 oz/a		25 g a/ha		14 EPP	A	106	0.0	99.0	99.0	99.0	6.0	95.0
	Extreme	48 oz/a		696 g a/ha		14 EPP	A	201		99.0	99.0	99.0		99.0
	MSO	1 % v/v				14 EPP	A	308	3.0	99.0	99.0	99.0	2.0	97.0
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A							
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B							
	NIS	0.25 % v/v				POST	B							
	Ammonium Sulfate	17 lb/100 gal				POST	B							
								Mean =	1.5	99.0	99.0	99.0	4.0	97.0
7	SHARPEN (BAS 80004)	1 oz/a		25 g a/ha		14 EPP	A	107	0.0	99.0	99.0	99.0	2.0	70.0
	PROWL H2O	32 oz/a		1060 g a/ha		14 EPP	A	204	1.0	99.0	90.0	99.0	1.0	90.0
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	307	2.0	99.0	99.0	99.0	2.0	80.0
	MSO	1 % v/v				14 EPP	A							
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A							
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B							
	NIS	0.25 % v/v				POST	B							
	Ammonium Sulfate	17 lb/100 gal				POST	B							
								Mean =	1.0	99.0	96.0	99.0	1.7	80.0
8	Authority Assist	5 oz/a				14 EPP	A	108	0.0	99.0	90.0	99.0	3.0	99.0
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	203	1.0	99.0	90.0	99.0	8.0	90.0
	MSO	1 % v/v				14 EPP	A	302	1.0	99.0		99.0	1.0	95.0
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A							
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B							
	NIS	0.25 % v/v				POST	B							
	Ammonium Sulfate	17 lb/100 gal				POST	B							
								Mean =	0.7	99.0	90.0	99.0	4.0	94.7
9	Authority Assist	6 oz/a				14 EPP	A	109	2.0	99.0	80.0	99.0	3.0	95.0
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	210	1.0	99.0	92.0	99.0	3.0	90.0
	MSO	1 % v/v				14 EPP	A	304	1.0	99.0	90.0	99.0	2.0	99.0
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A							
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B							
	NIS	0.25 % v/v				POST	B							
	Ammonium Sulfate	17 lb/100 gal				POST	B							
								Mean =	1.3	99.0	87.3	99.0	2.7	94.7
10	Authority Assist	8 oz/a				14 EPP	A	110	1.0	99.0	85.0	99.0	1.0	95.0
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	208	1.0	99.0	80.0	99.0	1.0	99.0
	MSO	1 % v/v				14 EPP	A	305	1.0	99.0	90.0	99.0	7.0	99.0
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A							
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B							
	NIS	0.25 % v/v				POST	B							
	Ammonium Sulfate	17 lb/100 gal				POST	B							
								Mean =	1.0	99.0	85.0	99.0	3.0	97.7

Description									Green foxtail	Green foxtail	Velvetleaf	Velvetleaf	Velvetleaf	Velvetleaf
Rating Date									07-30-09	07-30-09	05-25-09	06-30-09	07-30-09	07-30-09
Rating Type									Control	Density	Control	Control	Control	Density
Rating Unit									Percent	m2 RunCH	Percent	Percent	Percent	m2 RunCH
Days After First/Last Applic.									77 29	77 29	11 11	47 47	77 29	77 29
Trt-Eval Interval														
Trt No.	Treatment Name	Rate	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot		25	26	27	28	29	30
1	Nontreated Check					A	101		0.0	0.0	0.0	0.0	0.0	0.0
	Nontreated Check					B	207		0.0	0.0	0.0	0.0	0.0	0.0
							310		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	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A	102		99.0	5.0	90.0	0.0	99.0	2.0
	NIS	0.25 % v/v			14 EPP	A	205		98.0	15.0	75.0	0.0	99.0	1.0
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A	309		99.0	2.0	90.0	0.0	99.0	1.0
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B								
	NIS	0.25 % v/v			POST	B								
	Ammonium Sulfate	17 lb/100 gal			POST	B								
							Mean =		98.7	7.3	85.0	0.0	99.0	1.3
3	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A	103		99.0	5.0	90.0	0.0	99.0	1.0
	2,4-D LV Ester	16 oz/a	530 g a/ha		14 EPP	A	209		99.0	6.0	80.0	0.0	99.0	6.0
	NIS	0.25 % v/v			14 EPP	A	306		99.0	6.0	99.0	0.0	99.0	3.0
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A								
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B								
	NIS	0.25 % v/v			POST	B								
	Ammonium Sulfate	17 lb/100 gal			POST	B								
							Mean =		99.0	5.7	89.7	0.0	99.0	3.3
4	SHARPEN (BAS 80004)	1 oz/a	25 g a/ha		14 EPP	A	104		99.0	8.0	90.0	60.0	99.0	6.0
	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A	202		99.0	8.0	99.0	30.0	99.0	3.0
	MSO	1 % v/v			14 EPP	A	303		99.0	2.0	99.0	60.0	99.0	1.0
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A								
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B								
	NIS	0.25 % v/v			POST	B								
	Ammonium Sulfate	17 lb/100 gal			POST	B								
							Mean =		99.0	6.0	96.0	50.0	99.0	3.3
5	OPTILL (BAS 80400)	2 oz/a	95 g a/ha		14 EPP	A	105		99.0	6.0	90.0	80.0	99.0	2.0
	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A	206		99.0	15.0	99.0	90.0	99.0	2.0
	MSO	1 % v/v			14 EPP	A	301		99.0	5.0	99.0	99.0	99.0	2.0
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A								
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B								
	NIS	0.25 % v/v			POST	B								
	Ammonium Sulfate	17 lb/100 gal			POST	B								
							Mean =		99.0	8.7	96.0	89.7	99.0	2.0

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Description									Green foxtail	Green foxtail	Velvetleaf	Velvetleaf	Velvetleaf	Velvetleaf
Rating Date									07-30-09	07-30-09	05-25-09	06-30-09	07-30-09	07-30-09
Rating Type									Control	Density	Control	Control	Control	Density
Rating Unit									Percent	m2 RunCH	Percent	Percent	Percent	m2 RunCH
Days After First/Last Applic.									77 29	77 29	11 11	47 47	77 29	77 29
Trt-Eval Interval														
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	Plot	25	26	27	28	29	30
6	SHARPEN (BAS 80004)	1 oz/a		25 g a/ha		14 EPP	A	106	99.0	10.0	99.0	95.0	99.0	2.0
	Extreme	48 oz/a		696 g a/ha		14 EPP	A	201	99.0		99.0	99.0	99.0	
	MSO	1 % v/v				14 EPP	A	308	99.0	10.0	99.0	95.0	99.0	3.0
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A							
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B							
	NIS	0.25 % v/v				POST	B							
	Ammonium Sulfate	17 lb/100 gal				POST	B							
Mean =									99.0	10.0	99.0	96.3	99.0	2.5
7	SHARPEN (BAS 80004)	1 oz/a		25 g a/ha		14 EPP	A	107	99.0	5.0	99.0	80.0	99.0	1.0
	PROWL H2O	32 oz/a		1060 g a/ha		14 EPP	A	204	99.0	8.0	99.0	95.0	99.0	2.0
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	307	99.0	5.0	99.0	80.0	99.0	2.0
	MSO	1 % v/v				14 EPP	A							
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A							
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B							
	NIS	0.25 % v/v				POST	B							
Ammonium Sulfate	17 lb/100 gal				POST	B								
Mean =									99.0	6.0	99.0	85.0	99.0	1.7
8	Authority Assist	5 oz/a				14 EPP	A	108	99.0	5.0	99.0	70.0	99.0	4.0
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	203	99.0	5.0	99.0	80.0	99.0	4.0
	MSO	1 % v/v				14 EPP	A	302	99.0	20.0	99.0	75.0	99.0	2.0
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A							
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B							
	NIS	0.25 % v/v				POST	B							
	Ammonium Sulfate	17 lb/100 gal				POST	B							
Mean =									99.0	10.0	99.0	75.0	99.0	3.3
9	Authority Assist	6 oz/a				14 EPP	A	109	99.0	3.0	99.0	95.0	99.0	8.0
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	210	99.0	10.0	99.0	97.0	99.0	3.0
	MSO	1 % v/v				14 EPP	A	304	99.0	2.0	99.0	99.0	99.0	2.0
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A							
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B							
	NIS	0.25 % v/v				POST	B							
	Ammonium Sulfate	17 lb/100 gal				POST	B							
Mean =									99.0	5.0	99.0	97.0	99.0	4.3
10	Authority Assist	8 oz/a				14 EPP	A	110	99.0	8.0	99.0	95.0	99.0	7.0
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	208	99.0	8.0	99.0	85.0	99.0	4.0
	MSO	1 % v/v				14 EPP	A	305	99.0	8.0	99.0	99.0	99.0	1.0
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A							
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B							
	NIS	0.25 % v/v				POST	B							
	Ammonium Sulfate	17 lb/100 gal				POST	B							
Mean =									99.0	8.0	99.0	93.0	99.0	4.0

Description									Waterhemp	Waterhemp
Rating Date									07-30-09	07-30-09
Rating Type									Control	Density
Rating Unit									Percent	m2 RunCH
Days After First/Last Applic.									77 29	77 29
Trt-Eval Interval										
Trt No.	Treatment Name	Rate	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	31	32	
1	Nontreated Check					A	101	0.0		
	Nontreated Check					B	207	0.0	0.0	
							310	0.0	0.0	
							Mean =	0.0	0.0	
2	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A	102	99.0	1.0	
	NIS	0.25 % v/v			14 EPP	A	205	99.0	3.0	
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A	309	99.0	1.0	
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B				
	NIS	0.25 % v/v			POST	B				
	Ammonium Sulfate	17 lb/100 gal			POST	B				
							Mean =	99.0	1.7	
3	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A	103	99.0	1.0	
	2,4-D LV Ester	16 oz/a	530 g a/ha		14 EPP	A	209	99.0	6.0	
	NIS	0.25 % v/v			14 EPP	A	306	99.0	2.0	
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A				
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B				
	NIS	0.25 % v/v			POST	B				
	Ammonium Sulfate	17 lb/100 gal			POST	B				
							Mean =	99.0	3.0	
4	SHARPEN (BAS 80004)	1 oz/a	25 g a/ha		14 EPP	A	104	99.0	4.0	
	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A	202	99.0	4.0	
	MSO	1 % v/v			14 EPP	A	303	99.0	3.0	
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A				
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B				
	NIS	0.25 % v/v			POST	B				
	Ammonium Sulfate	17 lb/100 gal			POST	B				
							Mean =	99.0	3.7	
5	OPTILL (BAS 80400)	2 oz/a	95 g a/ha		14 EPP	A	105	99.0	10.0	
	Roundup Powermax	22 oz/a	870 g a/ha		14 EPP	A	206	99.0	1.0	
	MSO	1 % v/v			14 EPP	A	301	99.0	4.0	
	Ammonium Sulfate	17 lb/100 gal			14 EPP	A				
	Roundup Powermax	22 oz/a	870 g a/ha		POST	B				
	NIS	0.25 % v/v			POST	B				
	Ammonium Sulfate	17 lb/100 gal			POST	B				
							Mean =	99.0	5.0	

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Description									Waterhemp	Waterhemp
Rating Date									07-30-09	07-30-09
Rating Type									Control	Density
Rating Unit									Percent	m2 RunCH
Days After First/Last Applic.									77 29	77 29
Trt-Eval Interval										
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	31	32
6	SHARPEN (BAS 80004)	1 oz/a		25 g a/ha		14 EPP	A	106	99.0	2.0
	Extreme	48 oz/a		696 g a/ha		14 EPP	A	201	99.0	
	MSO	1 % v/v				14 EPP	A	308	99.0	3.0
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A			
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B			
	NIS	0.25 % v/v				POST	B			
	Ammonium Sulfate	17 lb/100 gal				POST	B			
Mean =									99.0	2.5
7	SHARPEN (BAS 80004)	1 oz/a		25 g a/ha		14 EPP	A	107	99.0	2.0
	PROWL H2O	32 oz/a		1060 g a/ha		14 EPP	A	204	99.0	3.0
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	307	99.0	4.0
	MSO	1 % v/v				14 EPP	A			
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A			
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B			
	NIS	0.25 % v/v				POST	B			
Ammonium Sulfate	17 lb/100 gal				POST	B				
Mean =									99.0	3.0
8	Authority Assist	5 oz/a				14 EPP	A	108	99.0	6.0
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	203	99.0	1.0
	MSO	1 % v/v				14 EPP	A	302	99.0	2.0
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A			
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B			
	NIS	0.25 % v/v				POST	B			
	Ammonium Sulfate	17 lb/100 gal				POST	B			
Mean =									99.0	3.0
9	Authority Assist	6 oz/a				14 EPP	A	109	99.0	2.0
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	210	99.0	3.0
	MSO	1 % v/v				14 EPP	A	304	99.0	2.0
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A			
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B			
	NIS	0.25 % v/v				POST	B			
	Ammonium Sulfate	17 lb/100 gal				POST	B			
Mean =									99.0	2.3
10	Authority Assist	8 oz/a				14 EPP	A	110	99.0	4.0
	Roundup Powermax	22 oz/a		870 g a/ha		14 EPP	A	208	99.0	8.0
	MSO	1 % v/v				14 EPP	A	305	99.0	1.0
	Ammonium Sulfate	17 lb/100 gal				14 EPP	A			
	Roundup Powermax	22 oz/a		870 g a/ha		POST	B			
	NIS	0.25 % v/v				POST	B			
	Ammonium Sulfate	17 lb/100 gal				POST	B			
Mean =									99.0	4.3

Northeast Research & Extension Center

2009 Kixor Soybean (north) Preplant efficacy in no-till 2009 FMC burndown treatments with residual

Trial ID: 09 SRR-2 Kixor FMC BD Protocol ID: 09 SRR-2 Kixor FMC BD
Location: Concord, NE Study Director:
Project ID: DEM-H-2009-US-D91-A-2.0 Investigator: Stevan Knezevic
Sponsor Contact:

Rating Unit

% = percent

Percent = percent