

2007 Soybean Herbicide Programs

Trial ID: 07SRR-1 Protocol ID:
Location: Concord, NE Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

General Trial Information

Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trial Location

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

Cooperator/Landowner

Cooperator: Haskell Agricultural Laboratory Country: USA
Organization: University of Nebraska Phone No: 402-584-2261
Address 1: 57905 866 RD Fax No: 402-584-3859
City: Concord
State/Prov: NE
Postal Code: 68728

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: Asgrow 2703
BBCH Scale: BSOY Planting Date: 06-07-07
Planting Method: seeded Rate, Unit: 180946 s/a
Depth, Unit: 1.5 in
Row Spacing, Unit: 30 in
Seed Bed: MEDIUM/TRASHY
Harvest Date: 10-25-07 Harvest Equipment: Massey 10
Harvested Width, Unit: 5 ft Harvested Length, Unit: 26 ft
% Standard Moisture: 13.0

Pest Description

Pest 1 Type: W Code: SETVI Setaria viridis
Common Name: Green foxtail
Pest 2 Type: W Code: ABUTH Abutilon theophrasti
Common Name: Velvetleaf

Site and Design

Plot Width, Unit: 10 FT Site Type: FIELD
Plot Length, Unit: 30 FT Tillage Type: CONVENTIONAL-TILL
Replications: 3 Study Design: Randomized Complete Block

	Previous Crops	Year
1.	Corn, field	2006

Field Prep./Maintenance:
Disced May 3, 2007 (twice)
Field cultivated 6-6-07

Soil Description

% Sand: 10 % OM: 3.6 Texture: SILTY CLAY LOAM
% Silt: 58 pH: 6.8 Soil Name: Baltic
% Clay: 32 CEC: 21.4 Fert. Level: good

Application Description

	A	B	C	D
Application Date:	06-08-07	07-02-07	07-13-07	07-23-07
Time of Day:	12:30 pm	4:15 pm	11:15 am	2:45 pm
Application Method:	spray	spray	spray	spray
Application Timing:	PRE	EPOST	MPOST	45 DAP
Application Placement:	surface	foliar	foliar	foliar
Air Temperature, Unit:	74 f	92 f	82 f	90 f
% Relative Humidity:	25	48	25	66
Wind Velocity, Unit:	2 mph	3 mph	2.5 mph	3 mph
Wind Direction:	w	s	s	s
Dew Presence (Y/N):	n	n	n	n
Soil Temperature, Unit:	70 f	80 f	75 f	82 f
Soil Moisture:	adequate	dry	dry	adequate
% Cloud Cover:	40	75	0	0

Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		BBCH	BBCH	BBCH
Stage Majority, Percent:		V2	V4/R1	V6/R2
Height, Unit:		6 in	12 in	18 in
Height Minimum, Maximum:		4 8		

Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Disc., Scale:	SETVI W	SETVI W	SETVI W	SETVI W
Height, Unit:		6 in	12 in	18 in
Height Minimum, Maximum:		4 8		
Density, Unit:		1 m2	1 m2	1 m2
Pest 2 Code, Disc., Scale:	ABUTH W	ABUTH W	ABUTH W	ABUTH W
Height, Unit:		8 in	12 in	18 in
Height Minimum, Maximum:			6 16	12 24
Density, Unit:		5 m2	5 m2	5 m2

Application Equipment

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

Date	By	Notes
07-02-07		Trial received little rainfall after application. Control with soil applied products was less than desired. Also, no soybean injury was observed in trial except for very slight (2-5%) stunting with treatment 6 F7119.

Date	By	Deviations
07-30-07		On treatments 3 and 9 the LPOST treatment was not applied due to no weeds present at planned application timing.

2007 Soybean Herbicide Programs											
Trial ID: 07SRR-1			Protocol ID:								
Location: Concord, NE			Study Director: Stevan Knezevic								
			Investigator: Stevan Knezevic								
Description	Soybean	Soybean	Soybean	Green foxtail	Green foxtail	Green foxtail	Green foxtail	Velvetleaf			
Rating Date	10-25-07	10-25-07	10-25-07	07-02-07	07-12-07	08-10-07	08-10-07	07-02-07			
Rating Data Type	Yield@13%	Moisture	Test weight	Control	Control	Control	Density	Control			
Rating Unit	bu/A	%	lb/bu	Percent	Percent	Percent	m2 RunCH	Percent			
Days After First/Last Applic.	139 94	139 94	139 94	24 0	34 10	63 18	63 18	24 0			
Plant-Eval Interval	140 DP-1	140 DP-1	140 DP-1	25 DP-1	35 DP-1	64 DP-1	64 DP-1	25 DP-1			
Trt No.	Treatment	Rate	Growth Stage								
1	Nontreated Check			35.0 b	9.3 a	50.8 a	0.0 b	0.0 d	0.0 b	1.0 b	0.0 c
2	Prefix	2 pt/a	PRE	46.1 a	9.3 a	52.0 a	10.0 ab	99.0 a	99.0 a	1.0 b	0.0 c
	Touchdown Total	24 oz/a	EPOST								
	Ammonium Sulfate	8.5 lb/100 gal	EPOST								
3	Touchdown Total	24 oz/a	EPOST	48.0 a	9.3 a	52.7 a	0.0 b	99.0 a	99.0 a	1.0 b	0.0 c
	Ammonium Sulfate	8.5 lb/100 gal	EPOST								
	Touchdown Total	24 oz/a	not appl								
	Ammonium Sulfate	8.5 lb/100 gal	not appl								
4	Authority First	3.2 oz/a	PRE	45.8 a	9.3 a	52.4 a	23.3 a	18.3 c	99.0 a	1.0 b	13.3 bc
	Roundup Original MAX	22 oz/a	45DAP								
	Ammonium Sulfate	17 lb/100 gal	45DAP								
5	Authority MTZ	10 oz/a	PRE	46.1 a	9.4 a	52.4 a	15.0 ab	15.0 cd	99.0 a	1.0 b	10.0 bc
	Roundup Original MAX	22 oz/a	45DAP								
	Ammonium Sulfate	17 lb/100 gal	45DAP								
6	F7119	4.8 oz/a	PRE	44.0 a	9.3 a	52.6 a	26.7 a	36.7 b	99.0 a	1.0 b	43.3 a
	Roundup Original MAX	22 oz/a	45DAP								
	Ammonium Sulfate	17 lb/100 gal	45DAP								
7	Roundup Original MAX	22 oz/a	45DAP	41.1 ab	9.3 a	51.4 a	0.0 b	0.0 d	99.0 a	1.5 a	0.0 c
	Ammonium Sulfate	17 lb/100 gal	45DAP								
8	Sonic	3 oz/a	PRE	47.6 a	9.1 a	53.4 a	26.7 a	30.0 bc	99.0 a	1.0 b	15.0 bc
	Durango	24 oz/a	MPOST								
	Ammonium Sulfate	2.5 lb/a	MPOST								
9	GF-1280	24 oz/a	EPOST	46.8 a	9.2 a	52.1 a	0.0 b	99.0 a	99.0 a	1.0 b	0.0 c
	Ammonium Sulfate	2.5 lb/a	EPOST								
	GF-1280	24 oz/a	not appl								
	Ammonium Sulfate	2.5 lb/a	not appl								
10	Valor	2 oz/a	PRE	47.2 a	9.2 a	53.9 a	13.3 ab	13.3 cd	99.0 a	1.0 b	18.3 b
	Roundup Original MAX	22 oz/a	MPOST								
	Ammonium Sulfate	17 lb/100 gal	MPOST								
11	Gangster V	2 oz/a	PRE	47.1 a	9.3 a	53.6 a	13.3 ab	13.3 cd	99.0 a	1.0 b	17.5 b
	Gangster FR	0.4 oz/a	PRE								
	Roundup Original MAX	22 oz/a	MPOST								
	Ammonium Sulfate	17 lb/100 gal	MPOST								
LSD (P=.05)		7.14	0.20	2.13	17.97	16.90	0.00	0.28	17.43		
Standard Deviation		4.19	0.12	1.25	10.55	9.92	0.00	0.16	10.16		
CV		9.32	1.26	2.38	90.45	25.77	0.0	15.64	95.14		
Grand Mean		44.98	9.27	52.48	11.67	38.52	90.0	1.05	10.68		
Replicate F		0.464	0.021	0.627	2.048	1.508	0.000	0.850	2.195		
Replicate Prob(F)		0.6351	0.9795	0.5445	0.1552	0.2455	1.0000	0.4448	0.1403		
Treatment F		2.512	0.973	1.682	3.098	49.489	0.000	2.550	5.135		
Treatment Prob(F)		0.0382	0.4951	0.1546	0.0151	0.0001	1.0000	0.0430	0.0013		

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.

Northeast Research & Extension Center

Description				Velvetleaf	Velvetleaf	Velvetleaf
Rating Date				07-12-07	08-10-07	08-10-07
Rating Data Type				Control	Control	Density
Rating Unit				Percent	Percent	m2 RunCH
Days After First/Last Applic.				34 10	63 18	63 18
Plant-Eval Interval				35 DP-1	64 DP-1	64 DP-1
Trt No.	Treatment Name	Rate Rate Unit	Growth Stage			
1	Nontreated Check			0.0 d	0.0 b	3.7 a
2	Prefix	2 pt/a	PRE	99.0 a	99.0 a	2.0 a
	Touchdown Total	24 oz/a	EPOST			
	Ammonium Sulfate	8.5 lb/100 gal	EPOST			
3	Touchdown Total	24 oz/a	EPOST	99.0 a	99.0 a	3.3 a
	Ammonium Sulfate	8.5 lb/100 gal	EPOST			
	Touchdown Total	24 oz/a	not appl			
	Ammonium Sulfate	8.5 lb/100 gal	not appl			
4	Authority First	3.2 oz/a	PRE	23.3 c	99.0 a	1.7 a
	Roundup Original MAX	22 oz/a	45DAP			
	Ammonium Sulfate	17 lb/100 gal	45DAP			
5	Authority MTZ	10 oz/a	PRE	27.5 c	99.0 a	2.7 a
	Roundup Original MAX	22 oz/a	45DAP			
	Ammonium Sulfate	17 lb/100 gal	45DAP			
6	F7119	4.8 oz/a	PRE	43.3 b	99.0 a	1.3 a
	Roundup Original MAX	22 oz/a	45DAP			
	Ammonium Sulfate	17 lb/100 gal	45DAP			
7	Roundup Original MAX	22 oz/a	45DAP	0.0 d	99.0 a	2.3 a
	Ammonium Sulfate	17 lb/100 gal	45DAP			
8	Sonic	3 oz/a	PRE	25.0 c	99.0 a	1.3 a
	Durango	24 oz/a	MPOST			
	Ammonium Sulfate	2.5 lb/a	MPOST			
9	GF-1280	24 oz/a	EPOST	99.0 a	99.0 a	4.0 a
	Ammonium Sulfate	2.5 lb/a	EPOST			
	GF-1280	24 oz/a	not appl			
	Ammonium Sulfate	2.5 lb/a	not appl			
10	Valor	2 oz/a	PRE	23.3 c	99.0 a	2.3 a
	Roundup Original MAX	22 oz/a	MPOST			
	Ammonium Sulfate	17 lb/100 gal	MPOST			
11	Gangster V	2 oz/a	PRE	25.0 c	99.0 a	2.0 a
	Gangster FR	0.4 oz/a	PRE			
	Roundup Original MAX	22 oz/a	MPOST			
	Ammonium Sulfate	17 lb/100 gal	MPOST			
LSD (P=.05)				7.24	0.00	2.57
Standard Deviation				4.22	0.00	1.51
CV				9.99	0.0	62.31
Grand Mean				42.23	90.0	2.42
Replicate F				2.585	0.000	0.372
Replicate Prob(F)				0.1031	1.0000	0.6941
Treatment F				248.744	0.000	1.084
Treatment Prob(F)				0.0001	1.0000	0.4183

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.

Additional Treatment Information

Treatment Name

Ammonium Sulfate = |

Rate Unit

PT/A = Pints Product per Acre (Metric=L/HA)|P

OZ/A = Ounces Product per Acre (Metric=ML-G/HA)|O

LB/100 GAL = Pounds Dry Product per 100 Gallons Mix (Metric=KG/100 L)|]

LB/A = Pounds Dry Product per Acre (Metric=KG/10A)|AH

2007 Treatments for control of Volunteer RR Corn in RR Soybean

Trial ID: 07SRR-2 Protocol ID: 07SRR-2 Volunteer Corn
Location: Concord, NE Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

General Trial Information

Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trial Location

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

Cooperator/Landowner

Cooperator: Haskell Agricultural Laboratory Country: USA
Organization: University of Nebraska Phone No: 402-584-2261
Address 1: 57905 866 RD Fax No: 402-584-3859
City: Concord
State/Prov: NE
Postal Code: 68728

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: Asgrow 2703
BBCH Scale: BSOY Planting Date: 06-07-07
Planting Method: seeded Rate, Unit: 180946 s/a
Depth, Unit: 1.5 in
Row Spacing, Unit: 30 in
Seed Bed: MEDIUM/TRASHY
Harvest Date: 10-25-07 Harvest Equipment: Massey 10
Harvested Width, Unit: 5 ft Harvested Length, Unit: 26 ft
% Standard Moisture: 13.0

Pest Description

Pest 1 Type: W Code: ZEAMX Zea mays
Common Name: Corn

Site and Design

Plot Width, Unit: 10 FT Site Type: FIELD
Plot Length, Unit: 30 FT Tillage Type: CONVENTIONAL-TILL
Replications: 3 Study Design: Randomized Complete Block

Table with 2 columns: Previous Crops, Year. Row 1: 1. Corn, field 2006

Field Prep./Maintenance:
Disced May 3, 2007 (twice)
Field cultivated 6-6-07

Soil Description

% Sand: 10 % OM: 3.6 Texture: SILTY CLAY LOAM
% Silt: 58 pH: 6.8 Soil Name: Baltic
% Clay: 32 CEC: 21.4 Fert. Level: good

Application Description

Table with 2 columns: Application Date, Time of Day, Application Method, Application Timing, Application Placement, Air Temperature, Unit, % Relative Humidity, Wind Velocity, Unit, Wind Direction, Dew Presence (Y/N), Soil Temperature, Unit, Soil Moisture, % Cloud Cover.

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	GLXMA BSOY
Stage Scale Used:	BBCH
Stage Majority, Percent:	4T/R1
Height, Unit:	12 in

Pest Stage At Each Application

	A
Pest 1 Code, Disc., Scale:	ZEAMX W
Stage Minimum, Percent:	v4 50
Stage Maximum, Percent:	v8 50
Height, Unit:	24 in
Height Minimum, Maximum:	12 36
Density, Unit:	3 m2

Application Equipment

	A
Appl. Equipment:	BACKPACK
Operating Pressure, Unit:	38 PSI
Nozzle Type:	TURBO TEE
Nozzle Size:	11002
Nozzle Spacing, Unit:	20 IN
Boom Length, Unit:	10 FT
Boom Height, Unit:	12 IN
Ground Speed, Unit:	2.6 MPH
Carrier:	WATER
Spray Volume, Unit:	20 GPA
Mix Size, Unit:	1.8 Liters
Propellant:	co2

Northeast Research & Extension Center

2007 Treatments for control of Volunteer RR Corn in RR Soybean

Trial ID: 07SRR-2
Location: Concord, NE

Protocol ID: 07SRR-2 Volunteer Corn
Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Description	Soybean 10-25-07 Yield@13% bu/A	Soybean 10-25-07 Moisture %	Soybean 10-25-07 Test Weight lb/bu	12" Vol corn 07-26-07 Control Percent	36" Vol corn 07-26-07 Control Percent	12" Vol corn 08-10-07 Control Percent	36" Vol corn 08-10-07 Control Percent	Volunteer Corn 09-06-07 Control Percent				
Rating Date	104	104	104	13	13	28	28	55				
Rating Data Type	104	104	104	13	13	28	28	55				
Rating Unit	DP-1	DP-1	DP-1	DP-1	DP-1	DP-1	DP-1	DP-1				
Days After First/Last Applic.												
Plant-Eval Interval												
Trt No.	Treatment Name	Rate	Growth Unit	Stage								
1	Nontreated Check				34.7 a	9.3 a	50.8 a	0.0 e	0.0 d	0.0 d	0.0 d	0.0 d
	Roundup Original Max	32 oz/a	POST									
	Ammonium Sulfate	17 lb/100 gal	POST									
2	Roundup Original Max	32 oz/a	POST		41.2 a	9.4 a	52.7 a	80.0 a	88.3 a	94.3 a	88.3 ab	86.7 c
	Assure II	6 oz/a	POST									
	COC	0.5 % v/v	POST									
	Ammonium Sulfate	17 lb/100 gal	POST									
3	Select Max	6 oz/a	POST		44.2 a	9.3 a	51.6 a	63.3 cd	73.3 b	91.7 ab	76.7 b	91.7 ab
	Roundup Original Max	32 oz/a	POST									
	Ammonium Sulfate	17 lb/100 gal	POST									
4	Select Max	6 oz/a	POST		40.3 a	9.4 a	52.4 a	68.3 bc	70.0 bc	86.7 abc	86.7 ab	91.7 ab
	Roundup Original Max	32 oz/a	POST									
	Ammonium Sulfate	17 lb/100 gal	POST									
	COC	0.5 % v/v	POST									
5	Fusilade DX	4 oz/a	POST		40.5 a	9.3 a	51.2 a	53.3 d	60.0 c	80.0 c	76.7 b	90.0 bc
	Touchdown Total	35 oz/a	POST									
	Ammonium Sulfate	8.5 lb/100 gal	POST									
6	Fusilade DX	6 oz/a	POST		43.1 a	9.3 a	52.6 a	61.7 cd	75.0 b	83.3 bc	90.0 ab	91.7 ab
	Touchdown Total	35 oz/a	POST									
	Ammonium Sulfate	8.5 lb/100 gal	POST									
7	Select Max	6 oz/a	POST		42.8 a	9.3 a	53.3 a	67.5 bc	75.0 b	80.0 c	90.0 ab	95.0 a
	Touchdown Total	35 oz/a	POST									
	Ammonium Sulfate	8.5 lb/100 gal	POST									
8	Select Max	8 oz/a	POST		40.8 a	9.3 a	52.4 a	75.0 ab	76.7 ab	90.0 ab	86.7 ab	93.3 ab
	Touchdown Total	35 oz/a	POST									
	Ammonium Sulfate	8.5 lb/100 gal	POST									
9	Fusilade DX	4 oz/a	POST		39.5 a	9.2 a	51.3 a	60.0 cd	73.3 b	80.0 c	90.0 ab	91.7 ab
	Touchdown Total	35 oz/a	POST									
	Ammonium Sulfate	8.5 lb/100 gal	POST									
	COC	0.5 % v/v	POST									
10	Fusilade DX	6 oz/a	POST		41.0 a	9.1 a	52.5 a	80.0 a	80.0 ab	80.0 c	90.0 ab	95.0 a
	Touchdown Total	35 oz/a	POST									
	Ammonium Sulfate	8.5 lb/100 gal	POST									
	COC	0.5 % v/v	POST									
11	Select Max	6 oz/a	POST		43.4 a	9.2 a	52.4 a	80.0 a	78.3 ab	93.3 a	91.7 a	93.3 ab
	Touchdown Total	35 oz/a	POST									
	Ammonium Sulfate	8.5 lb/100 gal	POST									
	COC	0.5 % v/v	POST									
12	Select Max	8 oz/a	POST		42.6 a	9.2 a	51.9 a	81.7 a	80.0 ab	93.3 a	90.0 ab	93.3 ab
	Touchdown Total	35 oz/a	POST									
	Ammonium Sulfate	8.5 lb/100 gal	POST									
	COC	0.5 % v/v	POST									
LSD (P=.05)		5.23	0.20	1.75	11.14	11.71	9.95	14.07	4.90			
Standard Deviation		3.07	0.12	1.03	6.54	6.88	5.84	8.26	2.87			
CV		7.46	1.26	1.97	10.18	9.94	7.36	10.36	3.4			
Grand Mean		41.18	9.28	52.08	64.24	69.17	79.39	79.72	84.44			
Replicate F		5.813	0.255	3.996	2.803	5.154	1.957	0.254	1.092			
Replicate Prob(F)		0.0102	0.7777	0.0347	0.0845	0.0157	0.1674	0.7779	0.3546			
Treatment F		2.003	1.250	1.526	34.816	32.952	57.932	28.828	258.579			
Treatment Prob(F)		0.0853	0.3195	0.1981	0.0001	0.0001	0.0001	0.0001	0.0001			

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

2007 Treatments for control of Volunteer RR Corn in RR Soybean

Trial ID: 07SRR-2
Location: Concord, NE

Protocol ID: 07SRR-2 Volunteer Corn
Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Additional Treatment Information

Treatment Name

Ammonium Sulfate = |

Rate Unit

OZ/A = Ounces Product per Acre (Metric=ML-G/HA)O

LB/100 GAL = Pounds Dry Product per 100 Gallons Mix (Metric=KG/100 L)]

% V/V = Percent, Volume Product per Volume Mix Basis (Metric=same)Z

2007 Dry formulation 2,4 DB (T101) to enhance glyphosate weed control

Trial ID: 07SRR-3
Location: Concord, NE

Protocol ID: 07SRR-3
Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

General Trial Information

Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trial Location

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

Cooperator/Landowner

Cooperator: Haskell Agricultural Laboratory
Organization: University of Nebraska
Address 1: 57905 866 RD
City: Concord
State/Prov: NE
Postal Code: 68728
Country: USA
Phone No: 402-584-2261
Fax No: 402-584-3859

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: Asgrow 2703
BBCH Scale: BSOY
Planting Method: seeded
Depth, Unit: 1.5 in
Row Spacing, Unit: 30 in
Seed Bed: MEDIUM/TRASHY
Harvest Date: 10-25-07
Harvested Width, Unit: 5 ft
% Standard Moisture: 13.0
Planting Date: 06-07-07
Rate, Unit: 180946 s/a
Harvest Equipment: Massey 10
Harvested Length, Unit: 26 ft

Pest Description

Pest 1 Type: W Code: ABUTH Abutilon theophrasti
Common Name: Velvetleaf
Pest 2 Type: W Code: AMATA Amaranthus tamariscinus
Common Name: Common waterhemp

Site and Design

Plot Width, Unit: 10 FT Site Type: FIELD
Plot Length, Unit: 30 FT Tillage Type: NO-TILL
Replications: 3 Study Design: Randomized Complete Block

Soil Description

% Sand: 10 % OM: 3.6 Texture: SILTY CLAY LOAM
% Silt: 58 pH: 6.8 Soil Name: Baltic
% Clay: 32 CEC: 21.4 Fert. Level: GOOD

Application Description

	A
Application Date:	07-13-07
Time of Day:	11:45 am
Application Method:	spray
Application Timing:	post
Application Placement:	foliar
Air Temperature, Unit:	82 f
% Relative Humidity:	25
Wind Velocity, Unit:	2.5 mph
Wind Direction:	s
Dew Presence (Y/N):	n
Soil Temperature, Unit:	75 f
Soil Moisture:	dry
% Cloud Cover:	10

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	GLXMA BSOY
Stage Scale Used:	BBCH
Stage Majority, Percent:	4T/R1 100
Height, Unit:	12 in

Pest Stage At Each Application

	A
Pest 1 Code, Disc., Scale:	ABUTH W
Height, Unit:	12 in
Height Minimum, Maximum:	6 18
Density, Unit:	5 m2
Pest 2 Code, Disc., Scale:	AMATA W
Height, Unit:	18 in
Height Minimum, Maximum:	12 24
Density, Unit:	1 m2

Application Equipment

	A
Appl. Equipment:	BACKPACK
Operating Pressure, Unit:	38 PSI
Nozzle Type:	TURBO TEE
Nozzle Size:	11002
Nozzle Spacing, Unit:	20 IN
Boom Length, Unit:	10 FT
Boom Height, Unit:	12 IN
Ground Speed, Unit:	2.7 MPH
Carrier:	WATER
Spray Volume, Unit:	20 GPA
Mix Size, Unit:	1.8 Liters
Propellant:	co2

2007 Dry formulation 2,4 DB (T101) to enhance glyphosate weed control

Trial ID: 07SRR-3
 Location: Concord, NE

Protocol ID: 07SRR-3
 Study Director: Stevan Knezevic
 Investigator: Stevan Knezevic

Description	Soybean 10-25-07	Soybean 10-25-07	Soybean 10-25-07	Soybean 07-20-07	Velvetleaf 07-20-07	Soybean 07-26-07	Velvetleaf 07-26-07	Waterhemp 07-26-07	Soybean 08-03-07				
Rating Date	Yield@13%	Moisture	Test Weight	Injury	Control	Injury	Control	Control	Injury				
Rating Data Type	bu/A	%	lb/bu	Percent	Percent	Percent	Percent	Percent	Percent				
Rating Unit	104 104	104 104	104 104	7 7	7 7	13 13	13 13	13 13	21 21				
Days After First/Last Applic.	140 DP-1	140 DP-1	140 DP-1	43 DP-1	43 DP-1	49 DP-1	49 DP-1	49 DP-1	57 DP-1				
Plant-Eval Interval													
Trt No.	Treatment Name	Rate	Unit	Growth Stage									
1	Nontreated Check				33.9 b	9.3 a	51.2 a	0.0 b	0.0 c	0.0 c	0.0 c	0.0 c	
2	Credit Extra	32 oz/a	POST		42.4 a	9.2 a	51.1 a	0.0 b	91.7 b	0.0 c	99.0 a	93.5 a	0.0 c
	Ammonium Sulfate	17 lb/100 gal	POST										
3	T101	0.48 oz/a	POST		32.9 b	9.3 a	51.1 a	0.0 b	0.0 c	0.0 c	6.7 c	0.0 b	0.0 c
	Ammonium Sulfate	17 lb/100 gal	POST										
4	Credit Extra	32 oz/a	POST		41.5 a	9.2 a	52.3 a	0.0 b	90.0 b	2.7 b	97.7 a	92.3 a	2.0 b
	T101	0.48 oz/a	POST										
	Ammonium Sulfate	17 lb/100 gal	POST										
5	T101	0.72 oz/a	POST		31.0 b	9.2 a	52.0 a	1.7 b	0.0 c	1.7 bc	10.0 b	0.0 b	0.0 c
	Ammonium Sulfate	17 lb/100 gal	POST										
6	Credit Extra	32 oz/a	POST		40.9 a	9.2 a	52.0 a	10.0 a	95.0 a	10.0 a	99.0 a	96.3 a	3.7 a
	T101	0.72 oz/a	POST										
	Ammonium Sulfate	17 lb/100 gal	POST										
LSD (P=.05)		3.76	0.14	2.97	2.14	2.14	2.61	2.39	4.13	1.47			
Standard Deviation		2.07	0.08	1.63	1.18	1.18	1.43	1.31	2.19	0.81			
CV		5.57	0.86	3.16	60.61	2.56	60.02	2.52	4.66	85.73			
Grand Mean		37.1	9.23	51.62	1.94	46.11	2.39	52.06	47.03	0.94			
Replicate F		1.753	0.275	1.034	1.000	1.000	2.135	0.613	0.142	1.610			
Replicate Prob(F)		0.2226	0.7652	0.3905	0.4019	0.4019	0.1690	0.5609	0.8702	0.2476			
Treatment F		17.690	1.059	0.307	34.600	5516.800	22.081	4538.278	1656.651	11.068			
Treatment Prob(F)		0.0001	0.4369	0.8980	0.0001	0.0001	0.0001	0.0001	0.0001	0.0008			

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.

Northeast Research & Extension Center

Description				Velvetleaf	Waterhemp	Soybean	Velvetleaf	Waterhemp
Rating Date				08-03-07	08-03-07	09-06-07	09-06-07	09-06-07
Rating Data Type				Control	Control	Injury	Control	Control
Rating Unit				Percent	Percent	Percent	Percent	Percent
Days After First/Last Applic.				21 21	21 21	55 55	55 55	55 55
Plant-Eval Interval				57 DP-1	57 DP-1	91 DP-1	91 DP-1	91 DP-1
Trt No.	Treatment Name	Rate Rate Unit	Growth Stage					
1	Nontreated Check			0.0 d	0.0 d	0.0 a	0.0 b	0.0 b
2	Credit Extra	32 oz/a	POST	98.3 a	96.0 b	0.0 a	99.0 a	99.0 a
	Ammonium Sulfate	17 lb/100 gal	POST					
3	T101	0.48 oz/a	POST	5.0 c	0.0 d	0.0 a	0.0 b	0.0 b
	Ammonium Sulfate	17 lb/100 gal	POST					
4	Credit Extra	32 oz/a	POST	97.0 a	94.0 c	0.0 a	99.0 a	99.0 a
	T101	0.48 oz/a	POST					
	Ammonium Sulfate	17 lb/100 gal	POST					
5	T101	0.72 oz/a	POST	10.0 b	0.0 d	0.0 a	0.0 b	0.0 b
	Ammonium Sulfate	17 lb/100 gal	POST					
6	Credit Extra	32 oz/a	POST	98.3 a	99.0 a	0.0 a	99.0 a	99.0 a
	T101	0.72 oz/a	POST					
	Ammonium Sulfate	17 lb/100 gal	POST					
LSD (P=.05)				1.58	1.72	0.00	0.00	0.00
Standard Deviation				0.87	0.91	0.00	0.00	0.00
CV				1.69	1.9	0.0	0.0	0.0
Grand Mean				51.44	48.17	0.0	49.5	49.5
Replicate F				3.824	0.800	0.000	0.000	0.000
Replicate Prob(F)				0.0584	0.4823	1.0000	1.0000	1.0000
Treatment F				10318.530	10031.641	0.000	0.000	0.000
Treatment Prob(F)				0.0001	0.0001	1.0000	1.0000	1.0000

Means followed by same letter do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

<u>Additional Treatment Information</u>	
<u>Treatment Name</u>	Ammonium Sulfate =
<u>Rate Unit</u>	
OZ/A = Ounces Product per Acre (Metric=ML-G/HA) O	
LB/100 GAL = Pounds Dry Product per 100 Gallons Mix (Metric=KG/100 L)]	

2007 Rage D-Tech Burndown

Trial ID: 07SRR-4	Protocol ID: 07
Location: Concord, NE	Study Director: Stevan Knezevic
	Investigator: Stevan Knezevic

General Trial Information

Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trial Location

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

Cooperator/Landowner

Cooperator: Haskell Agricultural Laboratory	Country: USA
Organization: University of Nebraska	Phone No: 402-584-2261
Address 1: 57905 866 RD	Fax No: 402-584-3859
City: Concord	
State/Prov: NE	
Postal Code: 68728	

Pest Description

Pest 1 Type: W Code: THLSS Thlaspi sp.
Common Name: Pennycress

Pest 2 Type: W Code: LAMAM Lamium amplexicaule
Common Name: Henbit

Pest 3 Type: W Code: DESSS Descurainia sp.
Common Name: Tansymustard

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

Pest 5 Type: W Code: TAROF Taraxacum officinale
Common Name: Common dandelion

Site and Design

Plot Width, Unit: 10 FT	Site Type: FIELD
Plot Length, Unit: 30 FT	Tillage Type: NO-TILL
Replications: 3	Study Design: Randomized Complete Block

Soil Description

% Sand: 18	% OM: 3.8	Texture: SILTY CLAY LOAM
% Silt: 50	pH: 6.1	Soil Name: Kennebec Maskell
% Clay: 32	CEC: 15.5	Fert. Level: EXCELLENT

Application Description

	A
Application Date:	05-10-07
Time of Day:	1:00 pm
Application Method:	spray
Application Timing:	Burndown
Application Placement:	foliar
Air Temperature, Unit:	89 f
% Relative Humidity:	36
Wind Velocity, Unit:	1 mph
Wind Direction:	s
Dew Presence (Y/N):	n
Soil Temperature, Unit:	70 f
% Cloud Cover:	40

Pest Stage At Each Application

	A	
Pest 1 Code, Disc., Scale:	THLSS	W
Height, Unit:	10	in
Density, Unit:	10	m2
Pest 2 Code, Disc., Scale:	LAMAM	W
Height, Unit:	4	in
Density, Unit:	50	m2
Pest 3 Code, Disc., Scale:	DESSS	W
Height, Unit:	5	in
Density, Unit:	8	m2
Pest 4 Code, Disc., Scale:	ERICA	W
Height, Unit:	3	in
Density, Unit:	4	m2
Pest 5 Code, Disc., Scale:	TAROF	W
Diameter, Unit:	5	in
Density, Unit:	1	m2

Application Equipment

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

2007 Rage D-Tech Burndown									
Trial ID: 07SRR-4			Protocol ID: 07						
Location: Concord, NE			Study Director: Stevan Knezevic						
			Investigator: Stevan Knezevic						

Description	Pennycress	Henbit	TansyMustard	Marestail	Dandelion	Pennycress	Henbit	TansyMustard
Rating Date	05-16-07	05-16-07	05-16-07	05-16-07	05-16-07	05-25-07	05-25-07	05-25-07
Rating Data Type	Control	Control	Control	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Days After First/Last Applic.	6 6	6 6	6 6	6 6	6 6	15 15	15 15	15 15
Plant-Eval Interval								
Trt No.	Treatment Name	Rate	Unit	Growth Stage				
1	Rage D-Tech	0.75	pt/a	Burndown	43.3 b	20.0 b		70.0 a
	COC	1	% v/v	Burndown				60.0 a
	Ammonium Sulfate	17	lb/100 gal	Burndown				86.7 b
2	Rage D-Tech	0.5	pt/a	Burndown	63.3 a	46.7 a	45.0	71.7 a
	Roundup Original MAX	22	oz/a	Burndown				50.0 b
	Ammonium Sulfate	17	lb/100 gal	Burndown				99.0 a
3	2,4-D LV Ester	1	pt/a	Burndown	15.0 c	3.3 c	0.0	28.3 b
	COC	1	% v/v	Burndown				35.0 c
	Ammonium Sulfate	17	lb/100 gal	Burndown				23.3 c
4	Roundup Original MAX	22	oz/a	Burndown	50.0 b	43.3 a	60.0	66.7 a
	Ammonium Sulfate	17	lb/100 gal	Burndown				99.0 a
5	2,4-D LV Ester	1	pt/a	Burndown	63.3 a	46.7 a	65.0	80.0 a
	Roundup Original MAX	22	oz/a	Burndown				40.0 c
	Ammonium Sulfate	17	lb/100 gal	Burndown				99.0 a
LSD (P=.05)		12.27			14.98			28.05
Standard Deviation		6.52			7.96			14.52
CV		13.87			24.87			22.93
Grand Mean		47.0			32.0		17.92	63.33
Replicate F		2.471			1.263			0.292
Replicate Prob(F)		0.1460			0.3336			0.7552
Treatment F		27.882			18.053			5.787
Treatment Prob(F)		0.0001			0.0005			0.0222
								0.0000
								1.0000
								0.6340
								0.3708
								95.672
								50.865
								0.0001
								0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Description				Marestail	Dandelion
Rating Date				05-25-07	05-25-07
Rating Data Type				Control	Control
Rating Unit				Percent	Percent
Days After First/Last Applic.				15 15	15 15
Plant-Eval Interval					
Trt No.	Treatment Name	Rate	Unit	Growth Stage	
1	Rage D-Tech	0.75	pt/a	Burndown	76.7 b
	COC	1	% v/v	Burndown	60.0 a
	Ammonium Sulfate	17	lb/100 gal	Burndown	
2	Rage D-Tech	0.5	pt/a	Burndown	99.0 a
	Roundup Original MAX	22	oz/a	Burndown	75.0 a
	Ammonium Sulfate	17	lb/100 gal	Burndown	
3	2,4-D LV Ester	1	pt/a	Burndown	73.3 b
	COC	1	% v/v	Burndown	
	Ammonium Sulfate	17	lb/100 gal	Burndown	
4	Roundup Original MAX	22	oz/a	Burndown	99.0 a
	Ammonium Sulfate	17	lb/100 gal	Burndown	
5	2,4-D LV Ester	1	pt/a	Burndown	99.0 a
	Roundup Original MAX	22	oz/a	Burndown	89.5 a
	Ammonium Sulfate	17	lb/100 gal	Burndown	
LSD (P=.05)				7.05	120.76
Standard Deviation				3.65	9.50
CV				4.08	12.7
Grand Mean				89.4	74.83
Replicate F				1.500	1.552
Replicate Prob(F)				0.2870	0.4306
Treatment F				39.193	4.817
Treatment Prob(F)				0.0001	0.3066

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.

Additional Treatment Information

Treatment Name

Ammonium Sulfate = |

Rate Unit

PT/A = Pints Product per Acre (Metric=L/HA)|P

% V/V = Percent, Volume Product per Volume Mix Basis (Metric=same)|Z

LB/100 GAL = Pounds Dry Product per 100 Gallons Mix (Metric=KG/100 L)|J

OZ/A = Ounces Product per Acre (Metric=ML-G/HA)|O

2007 Burndown and residual in NT SB with QCG78

Trial ID: 07SRR-5	Protocol ID:
Location: Concord, NE	Study Director: Stevan Knezevic
	Investigator: Stevan Knezevic

General Trial Information

Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trial Location

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

Cooperator/Landowner

Cooperator: Haskell Agricultural Laboratory	Country: USA
Organization: University of Nebraska	Phone No: 402-584-2261
Address 1: 57905 866 RD	Fax No: 402-584-3859
City: Concord	
State/Prov: NE	
Postal Code: 68728	

Crop Description

Crop 1: GLXMA Glycine max	Soybean
Variety: Garst 2834 RR	
BBCH Scale: BSOY	Planting Date: 06-07-07
Planting Method: seeded	Rate, Unit: 180946 s/a
Depth, Unit: 1.5 in	
Row Spacing, Unit: 30 in	
Harvest Date: 10-12-07	Harvest Equipment: Almaco
Harvested Width, Unit: 5 ft	Harvested Length, Unit: 27 ft
% Standard Moisture: 13.0	Moisture Meter: Dickey John
Weighing Equipment: Ohaus	

Pest Description

Pest 1 Type: W	Code: ERICA	Erigeron canadensis
	Common Name:	Canada horseweed
Pest 2 Type: W	Code: THLAR	Thlaspi arvense
	Common Name:	Field pennycress
Pest 3 Type: W	Code: DESPI	Descurainia pinnata
	Common Name:	tansymustard
Pest 4 Type: W	Code: LAMAM	Lamium amplexicaule
	Common Name:	Henbit
Pest 5 Type: W	Code: LACSE	Lactuca serriola
	Common Name:	Prickly lettuce
Pest 6 Type: W	Code: SETVI	Setaria viridis
	Common Name:	Green foxtail
Pest 7 Type: W	Code: AMARE	Amaranthus retroflexus
	Common Name:	redroot pigweed
Pest 8 Type: W	Code: AMATU	Amaranthus tuberculatus
	Common Name:	Tall waterhemp
Pest 9 Type: W	Code: ABUTH	Abutilon theophrasti
	Common Name:	Velvetleaf

Site and Design

Plot Width, Unit: 10	FT	Site Type: FIELD
Plot Length, Unit: 30	FT	Tillage Type: NO-TILL
Replications: 3		Study Design: Randomized Complete Block

Soil Description

% Sand: 18	% OM: 3.8	Texture: SILTY CLAY LOAM
% Silt: 50	pH: 6.1	Soil Name: Kennebec Maskell
% Clay: 32	CEC: 15.5	Fert. Level: EXCELLENT

Application Description

	A	B
Application Date:	05-10-07	07-18-07
Time of Day:	10:45 am	10:30 am
Application Method:	spray	spray
Application Timing:	burndown	POST
Application Placement:	foliar	foliar
Air Temperature, Unit:	74 f	84 f
% Relative Humidity:	35	68
Wind Velocity, Unit:	2 mph	2 mph
Wind Direction:	ne	sw
Dew Presence (Y/N):	n	n
Soil Temperature, Unit:	60 f	78 f
Soil Moisture:	adequate	dry
% Cloud Cover:	0	100

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		BBCH
Stage Majority, Percent:		R2/6T
Height, Unit:		12 in
Height Minimum, Maximum:		9 15

Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	ERICA W	ERICA W
Stage Majority, Percent:	Rosett	BUD
Height, Unit:	3 in	18 in
Height Minimum, Maximum:		12 24
Density, Unit:	5 m2	
Pest 2 Code, Disc., Scale:	THLAR W	THLAR W
Stage Majority, Percent:	Flower	
Height, Unit:	6 in	
Density, Unit:	10 m2	
Pest 3 Code, Disc., Scale:	DESPI W	DESPI W
Stage Majority, Percent:	Flower	
Height, Unit:	6 in	
Density, Unit:	3 m2	
Pest 4 Code, Disc., Scale:	LAMAM W	LAMAM W
Stage Majority, Percent:	Bud	
Height, Unit:	4 in	
Density, Unit:	10 m2	
Pest 5 Code, Disc., Scale:	LACSE W	LACSE W
Stage Majority, Percent:	Rosett	
Height, Unit:	3 in	
Density, Unit:	1 m2	
Pest 6 Code, Disc., Scale:	SETVI W	SETVI W
Height, Unit:		12 in
Height Minimum, Maximum:		8 18
Density, Unit:		10 m2
Pest 7 Code, Disc., Scale:	AMARE W	AMARE W
Height, Unit:		18 in
Height Minimum, Maximum:		15 30
Density, Unit:		1 m2
Pest 8 Code, Disc., Scale:	AMATU W	AMATU W
Height, Unit:		24 in
Height Minimum, Maximum:		18 36
Density, Unit:		1 m2
Pest 9 Code, Disc., Scale:	ABUTH W	ABUTH W
Height, Unit:		24 in
Height Minimum, Maximum:		12 36
Density, Unit:		1 m2

Application Equipment

	A	B
Appl. Equipment:	BACKPACK	BACKPACK
Operating Pressure, Unit:	40 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:	2.7 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** **Deviations**
05-10-07 js All Prefix used was the actual Dual/Reflex premix from Syngenta

Northeast Research & Extension Center

2007 Burndown and residual in NT SB with QCG78

Trial ID: 07SRR-5
Location: Concord, NE

Protocol ID:
Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Description		Soybean	Soybean	Soybean	Marestail	Marestail	Marestail	Marestail	Pennycress			
Rating Date		10-21-07	10-21-07	10-21-07	05-18-07	05-25-07	07-17-07	08-21-07	05-18-07			
Rating Data Type		Yield@13%	Moisture	Test Weight	Control	Control	Control	Control	Control			
Rating Unit		bu/A	%	lb/bu	Percent	Percent	Percent	Percent	Percent			
Days After First/Last Applic.		164 95	164 95	164 95	8 8	15 15	68 68	103 34	8 8			
Plant-Eval Interval		136 DP-1	136 DP-1	136 DP-1	-20 DP-1	-13 DP-1	40 DP-1	75 DP-1	-20 DP-1			
Trt No.	Treatment Name	Rate	Unit	Growth Stage								
1	COC	1	% v/v	Burndown	26.8 a-d	12.1 a	56.7 a	76.7 ab	86.3 b-e	53.3 def	54.7 b-e	71.7 abc
	2,4-D Ester	8	oz a/a	Burndown								
	CLASSIC	0.08	oz a/a	Burndown								
	HARMONY GT	0.248	oz a/a	Burndown								
	VALOR	1.02	oz a/a	Burndown								
	ROUNDUP WEATHERMAX	7.56	oz a/a	POST								
	Ammonium Sulfate	32	oz a/a	POST								
2	COC	1	% v/v	Burndown	11.2 e	12.3 a	56.8 a	78.3 ab	78.3 def	36.7 f	31.7 ef	75.0 ab
	2,4-D Ester	8	oz a/a	Burndown								
	VALOR	1.02	oz a/a	Burndown								
	ROUNDUP WEATHERMAX	7.56	oz a/a	POST								
	Ammonium Sulfate	32	oz a/a	POST								
3	COC	1	% v/v	Burndown	16.3 cde	11.6 a	56.6 a	76.7 ab	76.7 ef	41.7 ef	45.0 cde	71.7 abc
	2,4-D Ester	8	oz a/a	Burndown								
	VALOR	1.27	oz a/a	Burndown								
	ROUNDUP WEATHERMAX	7.56	oz a/a	POST								
	Ammonium Sulfate	32	oz a/a	POST								
4	COC	1	% v/v	Burndown	32.0 ab	12.1 a	56.8 a	53.3 d	73.3 f	83.0 abc	81.3 ab	53.3 c
	2,4-D Ester	8	oz a/a	Burndown								
	AUTHORITY FIRST	2.26	oz a/a	Burndown								
	ROUNDUP WEATHERMAX	7.56	oz a/a	POST								
	Ammonium Sulfate	32	oz a/a	POST								
5	COC	1	% v/v	Burndown	18.2 b-e	12.0 a	56.7 a	81.7 ab	83.3 b-f	33.3 f	53.3 b-e	76.7 ab
	2,4-D Ester	8	oz a/a	Burndown								
	PREFIX	16.76	oz a/a	Burndown								
	REFLEX	4	oz a/a	Burndown								
	ROUNDUP WEATHERMAX	7.56	oz a/a	POST								
	Ammonium Sulfate	32	oz a/a	POST								
6	COC	1	% v/v	Burndown	16.7 cde	12.3 a	56.7 a	56.7 cd	80.0 c-f	71.3 bcd	79.3 abc	56.7 bc
	2,4-D Ester	8	oz a/a	Burndown								
	CLASSIC	0.08	oz a/a	Burndown								
	HARMONY GT	0.026	oz a/a	Burndown								
	ROUNDUP WEATHERMAX	7.56	oz a/a	POST								
	Ammonium Sulfate	32	oz a/a	POST								
7	NIS	0.25	% v/v	Burndown	37.4 a	12.4 a	56.6 a	80.0 ab	90.0 abc	89.7 abc	92.7 a	80.0 a
	ROUNDUP WEATHERMAX	7.56	oz a/a	Burndown								
	2,4-D Ester	8	oz a/a	Burndown								
	CLASSIC	0.08	oz a/a	Burndown								
	HARMONY GT	0.248	oz a/a	Burndown								
	VALOR	1.02	oz a/a	Burndown								
	ROUNDUP WEATHERMAX	7.56	oz a/a	POST								
	Ammonium Sulfate	32	oz a/a	POST								
8	NIS	0.25	% v/v	Burndown	29.5 abc	12.4 a	56.6 a	88.3 a	92.3 ab	66.7 cde	69.7 a-d	83.3 a
	ROUNDUP WEATHERMAX	7.56	oz a/a	Burndown								
	2,4-D Ester	8	oz a/a	Burndown								
	VALOR	1.02	oz a/a	Burndown								
	ROUNDUP WEATHERMAX	7.56	oz a/a	POST								
	Ammonium Sulfate	32	oz a/a	POST								
9	NIS	0.25	% v/v	Burndown	33.6 a	11.8 a	56.7 a	70.0 bcd	88.3 bcd	99.0 a	99.0 a	68.3 abc
	ROUNDUP WEATHERMAX	7.56	oz a/a	Burndown								
	2,4-D Ester	8	oz a/a	Burndown								
	AUTHORITY FIRST	2.26	oz a/a	Burndown								
	ROUNDUP WEATHERMAX	7.56	oz a/a	POST								
	Ammonium Sulfate	32	oz a/a	POST								

Northeast Research & Extension Center

Description				Soybean	Soybean	Soybean	Marestail	Marestail	Marestail	Marestail	Pennycress
Rating Date				10-21-07	10-21-07	10-21-07	05-18-07	05-25-07	07-17-07	08-21-07	05-18-07
Rating Data Type				Yield@13%	Moisture	Test Weight	Control	Control	Control	Control	Control
Rating Unit				bu/A	%	lb/bu	Percent	Percent	Percent	Percent	Percent
Days After First/Last Applic.				164 95	164 95	164 95	8 8	15 15	68 68	103 34	8 8
Plant-Eval Interval				136 DP-1	136 DP-1	136 DP-1	-20 DP-1	-13 DP-1	40 DP-1	75 DP-1	-20 DP-1
Trt No.	Treatment Name	Rate	Growth Stage								
10	NIS	0.25 % v/v	Burndown	28.1 a-d	12.1 a	56.8 a	86.7 ab	93.0 ab	93.3 ab	82.7 ab	80.0 a
	ROUNDUP WEATHERMAX	7.56 oz a/a	Burndown								
	2,4-D Ester	8 oz a/a	Burndown								
	PREFIX	16.76 oz a/a	Burndown								
	REFLEX	4 oz a/a	Burndown								
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST								
	Ammonium Sulfate	32 oz a/a	POST								
11	NIS	0.25 % v/v	Burndown	24.2 a-e	11.7 a	56.7 a	71.7 abc	99.0 a	99.0 a	97.7 a	66.7 abc
	ROUNDUP WEATHERMAX	7.56 oz a/a	Burndown								
	2,4-D Ester	8 oz a/a	Burndown								
	CLASSIC	0.08 oz a/a	Burndown								
	HARMONY GT	0.026 oz a/a	Burndown								
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST								
	Ammonium Sulfate	32 oz a/a	POST								
12	ROUNDUP WEATHERMAX	7.56 oz a/a	Burndown	14.9 de	12.0 a	56.7 a	80.0 ab	99.0 a	99.0 a	82.7 ab	63.3 abc
	2,4-D Ester	8 oz a/a	Burndown								
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST								
	Ammonium Sulfate	32 oz a/a	POST								
13	COC	1 % v/v	Burndown	16.4 cde	12.5 a	56.3 a	80.0 ab	91.3 ab	41.7 ef	38.3 de	80.0 a
	2,4-D Ester	8 oz a/a	Burndown								
	CLASSIC	0.08 oz a/a	Burndown								
	HARMONY GT	0.248 oz a/a	Burndown								
	VALOR	1.02 oz a/a	Burndown								
	EXPRESS	0.075 oz a/a	Burndown								
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST								
	Ammonium Sulfate	32 oz a/a	POST								
14	Nontreated Check						0.0 e	0.0 g	0.0 g	0.0 f	0.0 d
	LSD (P=.05)			13.99	0.90	0.54	17.70	10.64	26.33	34.91	21.56
	Standard Deviation			8.26	0.53	0.32	10.54	6.34	15.69	20.80	12.84
	CV			35.17	4.39	0.56	15.06	7.84	24.2	32.06	19.4
	Grand Mean			23.49	12.1	56.67	70.0	80.79	64.83	64.86	66.19
	Replicate F			2.974	0.064	0.243	1.173	1.587	4.863	3.539	1.097
	Replicate Prob(F)			0.0719	0.9377	0.7865	0.3253	0.2237	0.0161	0.0437	0.3488
	Treatment F			3.063	0.759	0.423	13.637	45.073	11.723	5.761	8.064
	Treatment Prob(F)			0.0110	0.6836	0.9372	0.0001	0.0001	0.0001	0.0001	0.0001

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

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

Northeast Research & Extension Center

Description				Pennycress	Tansy Mustard	Tansy Mustard	Henbit	Henbit	P.Lettuce	P.Lettuce
Rating Date				05-25-07	05-18-07	05-25-07	05-18-07	05-25-07	05-18-07	05-25-07
Rating Data Type				Control	Control	Control	Control	Control	Control	Control
Rating Unit				Percent	Percent	Percent	Percent	Percent	Percent	Percent
Days After First/Last Applic.				15 15	8 8	15 15	8 8	15 15	8 8	15 15
Plant-Eval Interval				-13 DP-1	-20 DP-1	-13 DP-1	-20 DP-1	-13 DP-1	-20 DP-1	-13 DP-1
Trt No.	Treatment Name	Rate	Growth Stage							
1	COC	1 % v/v	Burndown	93.0 b	80.0	99.0	80.0 a	89.5 ab	99.0 a	95.0 ab
	2,4-D Ester	8 oz a/a	Burndown							
	CLASSIC	0.08 oz a/a	Burndown							
	HARMONY GT	0.248 oz a/a	Burndown							
	VALOR	1.02 oz a/a	Burndown							
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST							
	Ammonium Sulfate	32 oz a/a	POST							
2	COC	1 % v/v	Burndown	97.7 a			80.0 a	89.5 ab	93.3 a	99.0 a
	2,4-D Ester	8 oz a/a	Burndown							
	VALOR	1.02 oz a/a	Burndown							
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST							
	Ammonium Sulfate	32 oz a/a	POST							
3	COC	1 % v/v	Burndown	99.0 a	90.0	99.0	65.0 ab	81.7 ab	94.3 a	99.0 a
	2,4-D Ester	8 oz a/a	Burndown							
	VALOR	1.27 oz a/a	Burndown							
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST							
	Ammonium Sulfate	32 oz a/a	POST							
4	COC	1 % v/v	Burndown	80.0 c			37.5 c	55.0 d	73.3 b	84.7 bc
	2,4-D Ester	8 oz a/a	Burndown							
	AUTHORITY FIRST	2.26 oz a/a	Burndown							
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST							
	Ammonium Sulfate	32 oz a/a	POST							
5	COC	1 % v/v	Burndown	96.3 ab	80.0	99.0	72.5 ab	90.0 ab	97.0 a	99.0 a
	2,4-D Ester	8 oz a/a	Burndown							
	PREFIX	16.76 oz a/a	Burndown							
	REFLEX	4 oz a/a	Burndown							
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST							
	Ammonium Sulfate	32 oz a/a	POST							
6	COC	1 % v/v	Burndown	81.7 c			25.0 cd	62.5 cd	32.5 d	77.5 c
	2,4-D Ester	8 oz a/a	Burndown							
	CLASSIC	0.08 oz a/a	Burndown							
	HARMONY GT	0.026 oz a/a	Burndown							
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST							
	Ammonium Sulfate	32 oz a/a	POST							
7	NIS	0.25 % v/v	Burndown	96.0 ab			60.0 b	87.5 ab	88.3 a	91.3 ab
	ROUNDUP WEATHERMAX	7.56 oz a/a	Burndown							
	2,4-D Ester	8 oz a/a	Burndown							
	CLASSIC	0.08 oz a/a	Burndown							
	HARMONY GT	0.248 oz a/a	Burndown							
	VALOR	1.02 oz a/a	Burndown							
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST							
	Ammonium Sulfate	32 oz a/a	POST							
8	NIS	0.25 % v/v	Burndown	99.0 a	80.0	99.0	80.0 a	94.0 a	90.0 a	97.7 ab
	ROUNDUP WEATHERMAX	7.56 oz a/a	Burndown							
	2,4-D Ester	8 oz a/a	Burndown							
	VALOR	1.02 oz a/a	Burndown							
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST							
	Ammonium Sulfate	32 oz a/a	POST							
9	NIS	0.25 % v/v	Burndown	97.7 a	85.0	98.0	27.5 cd	75.0 bc	73.3 b	85.0 bc
	ROUNDUP WEATHERMAX	7.56 oz a/a	Burndown							
	2,4-D Ester	8 oz a/a	Burndown							
	AUTHORITY FIRST	2.26 oz a/a	Burndown							
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST							
	Ammonium Sulfate	32 oz a/a	POST							
10	NIS	0.25 % v/v	Burndown	99.0 a			65.0 ab	80.0 ab	99.0 a	99.0 a
	ROUNDUP WEATHERMAX	7.56 oz a/a	Burndown							
	2,4-D Ester	8 oz a/a	Burndown							
	PREFIX	16.76 oz a/a	Burndown							
	REFLEX	4 oz a/a	Burndown							
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST							
	Ammonium Sulfate	32 oz a/a	POST							

Northeast Research & Extension Center

Description				Pennycress	Tansy Mustard	Tansy Mustard	Henbit	Henbit	P.Lettuce	P.Lettuce
Rating Date				05-25-07	05-18-07	05-25-07	05-18-07	05-25-07	05-18-07	05-25-07
Rating Data Type				Control	Control	Control	Control	Control	Control	Control
Rating Unit				Percent	Percent	Percent	Percent	Percent	Percent	Percent
Days After First/Last Applic.				15 15	8 8	15 15	8 8	15 15	8 8	15 15
Plant-Eval Interval				-13 DP-1	-20 DP-1	-13 DP-1	-20 DP-1	-13 DP-1	-20 DP-1	-13 DP-1
Trt No.	Treatment Name	Rate	Growth Stage							
11	NIS	0.25 % v/v	Burndown	99.0 a	80.0	99.0	37.5 c	94.5 a	41.7 cd	86.3 abc
	ROUNDUP WEATHERMAX	7.56 oz a/a	Burndown							
	2,4-D Ester	8 oz a/a	Burndown							
	CLASSIC	0.08 oz a/a	Burndown							
	HARMONY GT	0.026 oz a/a	Burndown							
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST							
	Ammonium Sulfate	32 oz a/a	POST							
12	ROUNDUP WEATHERMAX	7.56 oz a/a	Burndown	99.0 a			15.0 de	81.3 ab	50.0 c	88.0 abc
	2,4-D Ester	8 oz a/a	Burndown							
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST							
	Ammonium Sulfate	32 oz a/a	POST							
13	COC	1 % v/v	Burndown	93.0 b	90.0	90.0	63.3 ab	93.3 a	93.3 a	96.0 ab
	2,4-D Ester	8 oz a/a	Burndown							
	CLASSIC	0.08 oz a/a	Burndown							
	HARMONY GT	0.248 oz a/a	Burndown							
	VALOR	1.02 oz a/a	Burndown							
	EXPRESS	0.075 oz a/a	Burndown							
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST							
	Ammonium Sulfate	32 oz a/a	POST							
14	Nontreated Check			0.0 d	0.0	0.0	0.0 e	0.0 e	0.0 e	0.0 d
LSD (P=.05)				4.58	.	.	19.63	16.77	12.74	13.82
Standard Deviation				2.73	.	.	11.28	9.69	7.53	8.16
CV				3.1	.	.	22.29	12.63	10.28	9.54
Grand Mean				87.88	24.38	28.46	50.6	76.7	73.23	85.54
Replicate F				1.166			0.622	0.640	0.065	0.140
Replicate Prob(F)				0.3275			0.5500	0.5404	0.9372	0.8699
Treatment F				273.825			16.503	19.979	49.774	29.445
Treatment Prob(F)				0.0001			0.0001	0.0001	0.0001	0.0001

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

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

Northeast Research & Extension Center

Description				Green Foxtail	Green Foxtail	Redroot Pigweed	Redroot Pigweed	Waterhemp	Waterhemp
Rating Date				07-17-07	08-21-07	07-17-07	08-21-07	07-17-07	08-21-07
Rating Data Type				Control	Control	Control	Control	Control	Control
Rating Unit				Percent	Percent	Percent	Percent	Percent	Percent
Days After First/Last Applic.				68 68	103 34	68 68	103 34	68 68	103 34
Plant-Eval Interval				40 DP-1	75 DP-1	40 DP-1	75 DP-1	40 DP-1	75 DP-1
Trt No.	Treatment Name	Rate	Growth Stage						
1	COC	1 % v/v	Burndown	50.0 abc	97.7 a	99.0 a	99.0 a	68.0 ab	97.7 a
	2,4-D Ester	8 oz a/a	Burndown						
	CLASSIC	0.08 oz a/a	Burndown						
	HARMONY GT	0.248 oz a/a	Burndown						
	VALOR	1.02 oz a/a	Burndown						
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST						
	Ammonium Sulfate	32 oz a/a	POST						
2	COC	1 % v/v	Burndown	35.0 cd	84.5 ab	79.5 b	99.0 a	89.5 a	99.0 a
	2,4-D Ester	8 oz a/a	Burndown						
	VALOR	1.02 oz a/a	Burndown						
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST						
	Ammonium Sulfate	32 oz a/a	POST						
3	COC	1 % v/v	Burndown	31.7 cd	89.7 ab	99.0 a	99.0 a	74.5 a	99.0 a
	2,4-D Ester	8 oz a/a	Burndown						
	VALOR	1.27 oz a/a	Burndown						
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST						
	Ammonium Sulfate	32 oz a/a	POST						
4	COC	1 % v/v	Burndown	40.0 bcd	96.0 a	96.0 a	99.0 a	86.3 a	99.0 a
	2,4-D Ester	8 oz a/a	Burndown						
	AUTHORITY FIRST	2.26 oz a/a	Burndown						
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST						
	Ammonium Sulfate	32 oz a/a	POST						
5	COC	1 % v/v	Burndown	56.7 abc	89.7 ab	20.0 c	99.0 a	36.7 bc	91.3 a
	2,4-D Ester	8 oz a/a	Burndown						
	PREFIX	16.76 oz a/a	Burndown						
	REFLEX	4 oz a/a	Burndown						
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST						
	Ammonium Sulfate	32 oz a/a	POST						
6	COC	1 % v/v	Burndown	10.0 de	83.3 ab	99.0 a	96.0 a	73.0 ab	86.0 a
	2,4-D Ester	8 oz a/a	Burndown						
	CLASSIC	0.08 oz a/a	Burndown						
	HARMONY GT	0.026 oz a/a	Burndown						
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST						
	Ammonium Sulfate	32 oz a/a	POST						
7	NIS	0.25 % v/v	Burndown	68.3 ab	99.0 a	99.0 a	99.0 a	86.3 a	99.0 a
	ROUNDUP WEATHERMAX	7.56 oz a/a	Burndown						
	2,4-D Ester	8 oz a/a	Burndown						
	CLASSIC	0.08 oz a/a	Burndown						
	HARMONY GT	0.248 oz a/a	Burndown						
	VALOR	1.02 oz a/a	Burndown						
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST						
	Ammonium Sulfate	32 oz a/a	POST						
8	NIS	0.25 % v/v	Burndown	73.3 a	96.0 a	99.0 a	99.0 a	83.0 a	99.0 a
	ROUNDUP WEATHERMAX	7.56 oz a/a	Burndown						
	2,4-D Ester	8 oz a/a	Burndown						
	VALOR	1.02 oz a/a	Burndown						
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST						
	Ammonium Sulfate	32 oz a/a	POST						
9	NIS	0.25 % v/v	Burndown	46.7 abc	97.7 a	96.0 a	99.0 a	86.3 a	83.0 a
	ROUNDUP WEATHERMAX	7.56 oz a/a	Burndown						
	2,4-D Ester	8 oz a/a	Burndown						
	AUTHORITY FIRST	2.26 oz a/a	Burndown						
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST						
	Ammonium Sulfate	32 oz a/a	POST						
10	NIS	0.25 % v/v	Burndown	73.3 a	89.3 ab	99.0 a	99.0 a	82.7 a	86.3 a
	ROUNDUP WEATHERMAX	7.56 oz a/a	Burndown						
	2,4-D Ester	8 oz a/a	Burndown						
	PREFIX	16.76 oz a/a	Burndown						
	REFLEX	4 oz a/a	Burndown						
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST						
	Ammonium Sulfate	32 oz a/a	POST						

Northeast Research & Extension Center

Description				Green Foxtail	Green Foxtail	Redroot Pigweed	Redroot Pigweed	Waterhemp	Waterhemp
Rating Date				07-17-07	08-21-07	07-17-07	08-21-07	07-17-07	08-21-07
Rating Data Type				Control	Control	Control	Control	Control	Control
Rating Unit				Percent	Percent	Percent	Percent	Percent	Percent
Days After First/Last Applic.				68 68	103 34	68 68	103 34	68 68	103 34
Plant-Eval Interval				40 DP-1	75 DP-1	40 DP-1	75 DP-1	40 DP-1	75 DP-1
Trt No.	Treatment Name	Rate	Growth Unit Stage						
11	NIS	0.25 % v/v	Burndown	10.0 de	73.3 b	99.0 a	99.0 a	20.0 c	78.0 a
	ROUNDUP WEATHERMAX	7.56 oz a/a	Burndown						
	2,4-D Ester	8 oz a/a	Burndown						
	CLASSIC	0.08 oz a/a	Burndown						
	HARMONY GT	0.026 oz a/a	Burndown						
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST						
	Ammonium Sulfate	32 oz a/a	POST						
12	ROUNDUP WEATHERMAX	7.56 oz a/a	Burndown	0.0 e	73.0 b	0.0 d	73.0 b	0.0 c	54.7 a
	2,4-D Ester	8 oz a/a	Burndown						
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST						
	Ammonium Sulfate	32 oz a/a	POST						
13	COC	1 % v/v	Burndown	60.0 abc	93.0 ab	99.0 a	99.0 a	97.0 a	99.0 a
	2,4-D Ester	8 oz a/a	Burndown						
	CLASSIC	0.08 oz a/a	Burndown						
	HARMONY GT	0.248 oz a/a	Burndown						
	VALOR	1.02 oz a/a	Burndown						
	EXPRESS	0.075 oz a/a	Burndown						
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST						
	Ammonium Sulfate	32 oz a/a	POST						
14	Nontreated Check			0.0 e	0.0 c				
LSD (P=.05)				31.12	22.22	11.77	11.53	37.77	27.96
Standard Deviation				18.42	13.19	6.93	6.79	22.24	16.46
CV				46.47	15.88	8.32	7.02	32.73	18.28
Grand Mean				39.64	83.01	83.35	96.77	67.95	90.08
Replicate F				2.715	0.290	0.095	1.087	0.397	1.184
Replicate Prob(F)				0.0874	0.7511	0.9099	0.3556	0.6774	0.3258
Treatment F				6.078	11.068	68.940	3.365	5.422	1.860
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0073	0.0004	0.1028

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				Velvetleaf	Velvetleaf
Rating Date				07-17-07	08-21-07
Rating Data Type				Control	Control
Rating Unit				Percent	Percent
Days After First/Last Applic.				68 68	103 34
Plant-Eval Interval				40 DP-1	75 DP-1
Trt No.	Treatment Name	Rate	Growth Unit Stage		
1	COC	1 % v/v	Burndown	33.3 def	69.7 a-d
	2,4-D Ester	8 oz a/a	Burndown		
	CLASSIC	0.08 oz a/a	Burndown		
	HARMONY GT	0.248 oz a/a	Burndown		
	VALOR	1.02 oz a/a	Burndown		
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST		
	Ammonium Sulfate	32 oz a/a	POST		
2	COC	1 % v/v	Burndown	30.0 ef	35.0 de
	2,4-D Ester	8 oz a/a	Burndown		
	VALOR	1.02 oz a/a	Burndown		
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST		
	Ammonium Sulfate	32 oz a/a	POST		
3	COC	1 % v/v	Burndown	35.0 c-f	35.0 de
	2,4-D Ester	8 oz a/a	Burndown		
	VALOR	1.27 oz a/a	Burndown		
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST		
	Ammonium Sulfate	32 oz a/a	POST		
4	COC	1 % v/v	Burndown	79.7 a	86.0 ab
	2,4-D Ester	8 oz a/a	Burndown		
	AUTHORITY FIRST	2.26 oz a/a	Burndown		
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST		
	Ammonium Sulfate	32 oz a/a	POST		
5	COC	1 % v/v	Burndown	0.0 f	68.0 a-d
	2,4-D Ester	8 oz a/a	Burndown		
	PREFIX	16.76 oz a/a	Burndown		
	REFLEX	4 oz a/a	Burndown		
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST		
	Ammonium Sulfate	32 oz a/a	POST		
6	COC	1 % v/v	Burndown	69.7 abc	74.7 abc
	2,4-D Ester	8 oz a/a	Burndown		
	CLASSIC	0.08 oz a/a	Burndown		
	HARMONY GT	0.026 oz a/a	Burndown		
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST		
	Ammonium Sulfate	32 oz a/a	POST		
7	NIS	0.25 % v/v	Burndown	40.0 b-e	92.7 ab
	ROUNDUP WEATHERMAX	7.56 oz a/a	Burndown		
	2,4-D Ester	8 oz a/a	Burndown		
	CLASSIC	0.08 oz a/a	Burndown		
	HARMONY GT	0.248 oz a/a	Burndown		
	VALOR	1.02 oz a/a	Burndown		
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST		
	Ammonium Sulfate	32 oz a/a	POST		
8	NIS	0.25 % v/v	Burndown	18.3 ef	59.7 bcd
	ROUNDUP WEATHERMAX	7.56 oz a/a	Burndown		
	2,4-D Ester	8 oz a/a	Burndown		
	VALOR	1.02 oz a/a	Burndown		
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST		
	Ammonium Sulfate	32 oz a/a	POST		
9	NIS	0.25 % v/v	Burndown	68.3 a-d	96.7 ab
	ROUNDUP WEATHERMAX	7.56 oz a/a	Burndown		
	2,4-D Ester	8 oz a/a	Burndown		
	AUTHORITY FIRST	2.26 oz a/a	Burndown		
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST		
	Ammonium Sulfate	32 oz a/a	POST		
10	NIS	0.25 % v/v	Burndown	28.3 ef	61.7 a-d
	ROUNDUP WEATHERMAX	7.56 oz a/a	Burndown		
	2,4-D Ester	8 oz a/a	Burndown		
	PREFIX	16.76 oz a/a	Burndown		
	REFLEX	4 oz a/a	Burndown		
	ROUNDUP WEATHERMAX	7.56 oz a/a	POST		
	Ammonium Sulfate	32 oz a/a	POST		

Northeast Research & Extension Center

Description				Velvetleaf	Velvetleaf	
Rating Date				07-17-07	08-21-07	
Rating Data Type				Control	Control	
Rating Unit				Percent	Percent	
Days After First/Last Applic.				68 68	103 34	
Plant-Eval Interval				40 DP-1	75 DP-1	
Trt No.	Treatment Name	Rate	Unit	Growth Stage		
11	NIS	0.25	% v/v	Burndown	73.3 ab	99.0 a
	ROUNDUP WEATHERMAX	7.56	oz a/a	Burndown		
	2,4-D Ester	8	oz a/a	Burndown		
	CLASSIC	0.08	oz a/a	Burndown		
	HARMONY GT	0.026	oz a/a	Burndown		
	ROUNDUP WEATHERMAX	7.56	oz a/a	POST		
	Ammonium Sulfate	32	oz a/a	POST		
12	ROUNDUP WEATHERMAX	7.56	oz a/a	Burndown	0.0 f	40.0 cd
	2,4-D Ester	8	oz a/a	Burndown		
	ROUNDUP WEATHERMAX	7.56	oz a/a	POST		
	Ammonium Sulfate	32	oz a/a	POST		
13	COC	1	% v/v	Burndown	22.5 ef	62.5 a-d
	2,4-D Ester	8	oz a/a	Burndown		
	CLASSIC	0.08	oz a/a	Burndown		
	HARMONY GT	0.248	oz a/a	Burndown		
	VALOR	1.02	oz a/a	Burndown		
	EXPRESS	0.075	oz a/a	Burndown		
	ROUNDUP WEATHERMAX	7.56	oz a/a	POST		
	Ammonium Sulfate	32	oz a/a	POST		
14	Nontreated Check				0.0 f	0.0 e
LSD (P=.05)				35.84	39.17	
Standard Deviation				21.17	23.19	
CV				59.44	36.87	
Grand Mean				35.61	62.89	
Replicate F				0.214	2.408	
Replicate Prob(F)				0.8091	0.1123	
Treatment F				5.140	4.344	
Treatment Prob(F)				0.0004	0.0011	

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.

Additional Treatment Information

Treatment Name

Ammonium Sulfate = |

Rate Unit

% V/V = Percent, Volume Product per Volume Mix Basis (Metric=same)|Z

OZ A/A = Ounces Active Ingredient per Acre (Metric=G A/HA)|B

2007 Glufosinate / Soybean / Efficacy / Weed Control Programs / LL Soybean Demo

Trial ID: 07SLL-6
Location: Concord, NE

Protocol ID:
Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

General Trial Information

Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trial Location

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

Cooperator/Landowner

Cooperator: Haskell Agricultural Laboratory
Organization: University of Nebraska
Address 1: 57905 866 RD
City: Concord
State/Prov: NE
Postal Code: 68728
Country: USA
Phone No: 402-584-2261
Fax No: 402-584-3859

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: SG2579LL Description: Liberty Link soybean
BBCH Scale: BSOY Planting Date: 07-02-07
Planting Method: seeded Rate, Unit: 180946 s/a
Depth, Unit: 1.5 in
Row Spacing, Unit: 30 in

Pest Description

Pest 1 Type: W Code: ABUTH Abutilon theophrasti
Common Name: Velvetleaf
Pest 2 Type: W Code: HIBTR Hibiscus trionum
Common Name: Venice mallow

Site and Design

Plot Width, Unit: 10 FT Site Type: FIELD
Plot Length, Unit: 30 FT Tillage Type: CONVENTIONAL-TILL
Replications: 3 Study Design: Randomized Complete Block

	Previous Crops	Year
1.	Corn, field	2006

Soil Description

% Sand: 10 % OM: 3.6 Texture: SILTY CLAY LOAM
% Silt: 58 pH: 6.8 Soil Name: Baltic
% Clay: 32 CEC: 21.4 Fert. Level: good

Application Description

	A	B	C
Application Date:	07-02-07	07-30-07	08-13-07
Time of Day:	9 pm	1:30 pm	10 am
Application Method:	spray	spray	spray
Application Timing:	PRE	EPOST	MPOST
Application Placement:	surface	foliar	foliar
Air Temperature, Unit:	80 f	84 f	78 f
% Relative Humidity:	70	64	80
Wind Velocity, Unit:	3 mph	4 mph	3 mph
Wind Direction:	s	s	s
Dew Presence (Y/N):	n	n	n
Soil Temperature, Unit:	79 f	80 f	80 f
Soil Moisture:	dry	adequate	wet
% Cloud Cover:	25	95	0

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		BBCH	BBCH
Stage Majority, Percent:		1T	5T 50
Stage Minimum, Percent:			4T 25
Stage Maximum, Percent:		2T 50	6T 25
Height, Unit:		2 in	10 in
Height Minimum, Maximum:			8 12

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Disc., Scale:	ABUTH W	ABUTH W	ABUTH W
Stage Majority, Percent:		2-4TL	6-8TL
Height, Unit:		2 in	8 in
Density, Unit:		3 m2	3 m2
Pest 2 Code, Disc., Scale:	HIBTR W	HIBTR W	HIBTR W
Stage Majority, Percent:		4L	8L
Height, Unit:		2 in	4 in
Density, Unit:		5 m2	5 m2

Application Equipment

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

2007 Glufosinate / Soybean / Efficacy / Weed Control Programs / LL Soybean Demo

Trial ID: 07SLL-6
Location: Concord, NE

Protocol ID:
Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Description	Soybean	Soybean	Soybean	Velvetleaf	Velvetleaf	Velvetleaf	Venice Mallow	Venice Mallow				
Rating Date	08-13-07	08-26-07	09-06-07	08-13-07	08-26-07	09-06-07	08-13-07	08-26-07				
Rating Data Type	Injury	Injury	Injury	Control	Control	Control	Control	Control				
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent				
Days After First/Last Applic.	42 0	55 13	66 24	42 0	55 13	66 24	42 0	55 13				
Plant-Eval Interval	42 DP-1	55 DP-1	66 DP-1	42 DP-1	55 DP-1	66 DP-1	42 DP-1	55 DP-1				
Trt No.	Treatment Name	Rate	Unit	Growth Stage								
1	Nontreated Check				0.0 a	0.0 a	0.0 a	0.0 e	0.0 b	0.0 b	0.0 b	0.0 b
2	Prowl H20	3 pt/a		PRE	0.0 a	0.0 a	0.0 a	0.0 e	99.0 a	99.0 a	0.0 c	99.0 a
	SP17385	22 oz/a		MPOST								
	Ammonium Sulfate	8.5 lb/100 gal		MPOST								
3	Prefix	1.5 pt/a		PRE	0.0 a	0.0 a	0.0 a	0.0 e	99.0 a	99.0 a	0.0 c	99.0 a
	SP17385	22 oz/a		MPOST								
	Ammonium Sulfate	8.5 lb/100 gal		MPOST								
4	Domain	14 oz/a		PRE	0.0 a	0.0 a	0.0 a	0.0 e	99.0 a	99.0 a	8.3 c	99.0 a
	SP17385	22 oz/a		MPOST								
	Ammonium Sulfate	8.5 lb/100 gal		MPOST								
5	Valor	3 oz/a		PRE	0.0 a	0.0 a	0.0 a	40.0 cd	99.0 a	99.0 a	13.3 c	99.0 a
	SP17385	22 oz/a		MPOST								
	Ammonium Sulfate	8.5 lb/100 gal		MPOST								
6	Authority First	4 oz/a		PRE	0.0 a	0.0 a	0.0 a	76.7 ab	99.0 a	99.0 a	76.7 b	99.0 a
	SP17385	22 oz/a		MPOST								
	Ammonium Sulfate	8.5 lb/100 gal		MPOST								
7	Authority First	4 oz/a		PRE	0.0 a	0.0 a	0.0 a	63.3 bc	99.0 a	99.0 a	76.7 b	99.0 a
	Liberty	32 oz/a		MPOST								
	Ammonium Sulfate	8.5 lb/100 gal		MPOST								
8	Sencor	6 oz/a		PRE	0.0 a	0.0 a	0.0 a	16.7 de	99.0 a	99.0 a	0.0 c	99.0 a
	SP17385	22 oz/a		MPOST								
	Ammonium Sulfate	8.5 lb/100 gal		MPOST								
9	SP17385	22 oz/a		EPOST	0.0 a	0.0 a	0.0 a	99.0 a	99.0 a	99.0 a	99.0 a	99.0 a
	Ammonium Sulfate	8.5 lb/100 gal		EPOST								
	SP17385	22 oz/a		MPOST								
	Ammonium Sulfate	8.5 lb/100 gal		MPOST								
10	Liberty	32 oz/a		EPOST	0.0 a	0.0 a	0.0 a	99.0 a	99.0 a	99.0 a	99.0 a	99.0 a
	Ammonium Sulfate	8.5 lb/100 gal		EPOST								
	Liberty	32 oz/a		MPOST								
	Ammonium Sulfate	8.5 lb/100 gal		MPOST								
LSD (P=.05)					0.00	0.00	0.00	27.99	0.00	0.00	19.73	0.00
Standard Deviation					0.00	0.00	0.00	16.32	0.00	0.00	11.50	0.00
CV					0.0	0.0	0.0	41.35	0.0	0.0	30.84	0.0
Grand Mean					0.0	0.0	0.0	39.47	89.1	89.1	37.3	89.1
Replicate F					0.000	0.000	0.000	3.017	0.000	0.000	2.400	0.000
Replicate Prob(F)					1.0000	1.0000	1.0000	0.0742	1.0000	1.0000	0.1192	1.0000
Treatment F					0.000	0.000	0.000	19.768	0.000	0.000	44.570	0.000
Treatment Prob(F)					1.0000	1.0000	1.0000	0.0001	1.0000	1.0000	0.0001	1.0000

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

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

Northeast Research & Extension Center

Description				Venice Mallow
Rating Date				09-06-07
Rating Data Type				Control
Rating Unit				Percent
Days After First/Last Applic.				66 24
Plant-Eval Interval				66 DP-1
Trt No.	Treatment Name	Rate	Unit	Growth Stage
1	Nontreated Check			0.0 b
2	Prowl H20	3	pt/a	PRE
	SP17385	22	oz/a	MPOST
	Ammonium Sulfate	8.5	lb/100 gal	MPOST
3	Prefix	1.5	pt/a	PRE
	SP17385	22	oz/a	MPOST
	Ammonium Sulfate	8.5	lb/100 gal	MPOST
4	Domain	14	oz/a	PRE
	SP17385	22	oz/a	MPOST
	Ammonium Sulfate	8.5	lb/100 gal	MPOST
5	Valor	3	oz/a	PRE
	SP17385	22	oz/a	MPOST
	Ammonium Sulfate	8.5	lb/100 gal	MPOST
6	Authority First	4	oz/a	PRE
	SP17385	22	oz/a	MPOST
	Ammonium Sulfate	8.5	lb/100 gal	MPOST
7	Authority First	4	oz/a	PRE
	Liberty	32	oz/a	MPOST
	Ammonium Sulfate	8.5	lb/100 gal	MPOST
8	Sencor	6	oz/a	PRE
	SP17385	22	oz/a	MPOST
	Ammonium Sulfate	8.5	lb/100 gal	MPOST
9	SP17385	22	oz/a	EPOST
	Ammonium Sulfate	8.5	lb/100 gal	EPOST
	SP17385	22	oz/a	MPOST
	Ammonium Sulfate	8.5	lb/100 gal	MPOST
10	Liberty	32	oz/a	EPOST
	Ammonium Sulfate	8.5	lb/100 gal	EPOST
	Liberty	32	oz/a	MPOST
	Ammonium Sulfate	8.5	lb/100 gal	MPOST
LSD (P=.05)				0.00
Standard Deviation				0.00
CV				0.0
Grand Mean				89.1
Replicate F				0.000
Replicate Prob(F)				1.0000
Treatment F				0.000
Treatment Prob(F)				1.0000

Means followed by same letter do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

<u>Additional Treatment Information</u>
<u>Treatment Name</u>
Ammonium Sulfate =
<u>Rate Unit</u>
PT/A = Pints Product per Acre (Metric=L/HA) P
OZ/A = Ounces Product per Acre (Metric=ML-G/HA) O
LB/100 GAL = Pounds Dry Product per 100 Gallons Mix (Metric=KG/100 L)]

2007 Glufosinate / Soybean / Efficacy / Weed Control Programs / LL Soybean 15"

Trial ID: 07SLL-7
Location: Concord, NE

Protocol ID:
Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

General Trial Information

Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trial Location

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

Cooperator/Landowner

Cooperator: Haskell Agricultural Laboratory
Organization: University of Nebraska
Address 1: 57905 866 RD
City: Concord
State/Prov: NE
Postal Code: 68728
Country: USA
Phone No: 402-584-2261
Fax No: 402-584-3859

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: SG2579LL **Description:** Liberty Link soybean
BBCH Scale: BSOY **Planting Date:** 07-02-07
Planting Method: seeded **Rate, Unit:** 162891 s/a
Depth, Unit: 1.5 in
Row Spacing, Unit: 15 in

Site and Design

Plot Width, Unit: 10 FT **Site Type:** Field
Plot Length, Unit: 30 FT **Tillage Type:** NO-TILL
Replications: 3 **Study Design:** Randomized Complete Block

	Previous Crops	Year
1.	Corn, field	2006

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.	06-20-07	glyphosate	5.5	lb ai/g	sl	32	oz/a

Soil Description

% Sand: 10 **% OM:** 3.6 **Texture:** SILTY CLAY LOAM
% Silt: 58 **pH:** 6.8 **Soil Name:** Baltic
% Clay: 32 **CEC:** 21.4 **Fert. Level:** good

Application Description

	A	B	C	D	E	F
Application Date:	07-02-07	07-23-07	07-30-07	08-03-07	08-13-07	08-26-07
Time of Day:	9 pm	3 pm				
Application Method:	spray	spray	spray	spray	spray	spray
Application Timing:	PRE	21 DAP	28 DAP	32 DAP	21 DA B	28 DA C
Application Placement:	surface	foliar	foliar	foliar	foliar	foliar
Air Temperature, Unit:	80 f	90 f	84 f	80 f	78 f	87 f
% Relative Humidity:	70	66	64	50	80	77
Wind Velocity, Unit:	3 mph	3 mph	4 mph	4 mph	3 mph	5 mph
Wind Direction:	s	s	s	s	s	ssw
Dew Presence (Y/N):	n	n	n	n	n	n
Soil Temperature, Unit:	79 f	82 f	80 f	70 f	72 f	75 f
Soil Moisture:	dry	adequate	dry	dry	wet	wet
% Cloud Cover:	25	0	95	95	0	0

G	
Application Date:	09-04-07
Time of Day:	
Application Method:	spray
Application Timing:	32 DA D
Application Placement:	foliar
Air Temperature, Unit:	84 f
% Relative Humidity:	54
Wind Velocity, Unit:	3 mph
Wind Direction:	ssw
Dew Presence (Y/N):	n
Soil Temperature, Unit:	78 f
Soil Moisture:	adequate
% Cloud Cover:	0

Crop Stage At Each Application

	A	B	C	D	E	F
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		BBCH	BBCH	BBCH	BBCH	BBCH
Stage Majority, Percent:		1T	2T	3T	5T/R1	R2
Height, Unit:		1 in	2 in	5 in	10 in	18 in
Height Minimum, Maximum:				4 6	8 12	12 24
G						
Crop 1 Code, BBCH Scale:	GLXMA BSOY					
Stage Scale Used:	BBCH					
Stage Majority, Percent:	R3					
Height, Unit:	18 in					
Height Minimum, Maximum:	12 24					

Application Equipment

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

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

Date	By	Notes
07-23-07		There was minimal weed pressure in this trial (not enough to rate). This was due in part to later planting and little rain after this planting. Also, in this no till setting the first flush of weeds were controlled with the burndown application.

Northeast Research & Extension Center

2007 Glufosinate / Soybean / Efficacy / Weed Control Programs / LL Soybean 15"

Trial ID: 07SLL-7
 Location: Concord, NE

Protocol ID:
 Study Director: Stevan Knezevic
 Investigator: Stevan Knezevic

Description	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	
Rating Date	07-23-07	07-30-07	08-03-07	08-13-07	08-26-07	09-04-07	09-24-07	
Rating Data Type	Injury	Injury	Injury	Injury	Injury	Injury	Injury	
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
Days After First/Last Applic.	21 0	28 0	32 0	42 0	55 0	64 0	84 20	
Plant-Eval Interval	21 DP-1	28 DP-1	32 DP-1	42 DP-1	55 DP-1	64 DP-1	84 DP-1	
Trt No.	Treatment Name	Rate	Unit	Growth Stage				
1	Nontreated Check				0.0 a	0.0 a	0.0 a	0.0 a
2	Prowl H20	3 pt/a		PRE	0.0 a	0.0 a	0.0 a	0.0 a
	SP17385	22 oz/a		21 DAP				
	Ammonium Sulfate	8.5 lb/100 gal		21 DAP				
3	Prowl H20	3 pt/a		PRE	0.0 a	0.0 a	0.0 a	0.0 a
	SP17385	22 oz/a		32 DAP				
	Ammonium Sulfate	8.5 lb/100 gal		32 DAP				
4	Authority First	4 oz/a		PRE	0.0 a	0.0 a	0.0 a	0.0 a
	SP17385	22 oz/a		21 DAP				
	Ammonium Sulfate	8.5 lb/100 gal		21 DAP				
5	Authority First	4 oz/a		PRE	0.0 a	0.0 a	0.0 a	0.0 a
	SP17385	22 oz/a		32 DAP				
	Ammonium Sulfate	8.5 lb/100 gal		32 DAP				
6	SP17385	22 oz/a		21 DAP	0.0 a	0.0 a	0.0 a	0.0 a
	Ammonium Sulfate	8.5 lb/100 gal		21 DAP				
	SP17385	22 oz/a		21 DA B				
	Ammonium Sulfate	8.5 lb/100 gal		21 DA B				
7	SP17385	29 oz/a		21 DAP	0.0 a	0.0 a	0.0 a	0.0 a
	Ammonium Sulfate	8.5 lb/100 gal		21 DAP				
	SP17385	29 oz/a		21 DA B				
	Ammonium Sulfate	8.5 lb/100 gal		21 DA B				
8	SP17385	22 oz/a		28 DAP	0.0 a	0.0 a	0.0 a	0.0 a
	Ammonium Sulfate	8.5 lb/100 gal		28 DAP				
	SP17385	22 oz/a		28 DA C				
	Ammonium Sulfate	8.5 lb/100 gal		28 DA C				
9	SP17385	29 oz/a		28 DAP	0.0 a	0.0 a	0.0 a	0.0 a
	Ammonium Sulfate	8.5 lb/100 gal		28 DAP				
	SP17385	29 oz/a		28 DA C				
	Ammonium Sulfate	8.5 lb/100 gal		28 DA C				
10	SP17385	43 oz/a		32 DAP	0.0 a	0.0 a	0.0 a	0.0 a
	Ammonium Sulfate	8.5 lb/100 gal		32 DAP				
	SP17385	43 oz/a		32 DA D				
	Ammonium Sulfate	8.5 lb/100 gal		32 DA D				
11	Liberty	60 oz/a		32 DAP	0.0 a	0.0 a	0.0 a	0.0 a
	Ammonium Sulfate	8.5 lb/100 gal		32 DAP				
	Liberty	60 oz/a		32 DA D				
	Ammonium Sulfate	8.5 lb/100 gal		32 DA D				
LSD (P=.05)		0.00		0.00	0.00	0.00	0.00	0.00
Standard Deviation		0.00		0.00	0.00	0.00	0.00	0.00
CV		0.0		0.0	0.0	0.0	0.0	0.0
Grand Mean		0.0		0.0	0.0	0.0	0.0	0.0
Replicate F		0.000		0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)		1.0000		1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F		0.000		0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)		1.0000		1.0000	1.0000	1.0000	1.0000	1.0000

Means followed by same letter do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Additional Treatment Information	
Treatment Name	Ammonium Sulfate =
Rate Unit	PT/A = Pints Product per Acre (Metric=L/HA)P

Additional Treatment Information

OZ/A = Ounces Product per Acre (Metric=ML-G/HA)[O

LB/100 GAL = Pounds Dry Product per 100 Gallons Mix (Metric=KG/100 L)]

2007 Glufosinate / Soybean / Efficacy / Weed Control Programs / LL Soybean 30"

Trial ID: 07SLL-8
Location: Concord, NE

Protocol ID:
Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

General Trial Information

Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trial Location

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

Cooperator/Landowner

Cooperator: Haskell Agricultural Laboratory
Organization: University of Nebraska
Address 1: 57905 866 RD
City: Concord
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Postal Code: 68728
Country: USA
Phone No: 402-584-2261
Fax No: 402-584-3859

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: SG2579LL Description: Liberty Link soybean
BBCH Scale: BSOY Planting Date: 07-02-07
Planting Method: seeded Rate, Unit: 180946 s/a
Depth, Unit: 1.5 in
Row Spacing, Unit: 30 in

Pest Description

Pest 1 Type: W Code: SETVI Setaria viridis
Common Name: Green foxtail
Pest 2 Type: W Code: ABUTH Abutilon theophrasti
Common Name: Velvetleaf
Pest 3 Type: W Code: HIBTR Hibiscus trionum
Common Name: Venice mallow

Site and Design

Plot Width, Unit: 10 FT Site Type: FIELD
Plot Length, Unit: 30 FT Tillage Type: CONVENTIONAL-TILL
Replications: 3 Study Design: Randomized Complete Block

Previous Crops	Year
1. Corn, field	2006

Soil Description

% Sand: 10 % OM: 3.6 Texture: SILTY CLAY LOAM
% Silt: 58 pH: 6.8 Soil Name: Baltic
% Clay: 32 CEC: 21.4 Fert. Level: good

Application Description

	A	B	C	D	E	F
Application Date:	07-02-07	07-23-07	07-30-07	08-03-07	08-13-07	08-26-07
Time of Day:	9 pm	3 pm				
Application Method:	spray	spray	spray	spray	spray	spray
Application Timing:	PRE	21 DAP	28 DAP	32 DAP	21 DA B	28 DA C
Application Placement:	surface	foliar	foliar	foliar	foliar	foliar
Air Temperature, Unit:	80 f	90 f	84 f	80 f	78 f	87 f
% Relative Humidity:	70	66	64	50	80	77
Wind Velocity, Unit:	3 mph	3 mph	4 mph	4 mph	3 mph	5 mph
Wind Direction:	s	s	s	s	s	ssw
Dew Presence (Y/N):	n	n	n	n	n	n
Soil Temperature, Unit:	79 f	82 f	80 f	70 f	72 f	75 f
Soil Moisture:	dry	adequate	dry	dry	wet	wet
% Cloud Cover:	25	0	95	95	0	0

	G
Application Date:	09-04-07
Time of Day:	
Application Method:	spray
Application Timing:	32 DA D
Application Placement:	foliar
Air Temperature, Unit:	84 f
% Relative Humidity:	54
Wind Velocity, Unit:	3 mph
Wind Direction:	ssw
Dew Presence (Y/N):	n
Soil Temperature, Unit:	78 f
Soil Moisture:	adequate
% Cloud Cover:	0

Crop Stage At Each Application

	A	B	C	D	E	F
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		BBCH	BBCH	BBCH	BBCH	BBCH
Stage Majority, Percent:		1T	2T	3T	5T/R1	R2
Height, Unit:		1 in	2 in	5 in	10 in	18 in
Height Minimum, Maximum:				4 6	8 12	12 24
	G					
Crop 1 Code, BBCH Scale:	GLXMA BSOY					
Stage Scale Used:	BBCH					
Stage Majority, Percent:	R3					
Height, Unit:	18 in					
Height Minimum, Maximum:	12 24					

Pest Stage At Each Application

	A	B	C	D	E
Pest 1 Code, Disc., Scale:	SETVI W	SETVI W	SETVI W	SETVI W	SETVI W
Height, Unit:		1 in	2 in	3 in	6 in
Height Minimum, Maximum:				2 4	5 7
Density, Unit:		5 m2	5 m2	5 m2	5 m2
Pest 2 Code, Disc., Scale:	ABUTH W	ABUTH W	ABUTH W	ABUTH W	ABUTH W
Stage Majority, Percent:			2-4TL		
Height, Unit:		1 in	2 in	3 in	8
Height Minimum, Maximum:				2 4	10 12
Density, Unit:		3 m2	3 m2	3 m2	3 m2
Pest 3 Code, Disc., Scale:	HIBTR W	HIBTR W	HIBTR W	HIBTR W	HIBTR W
Stage Majority, Percent:			4L		
Height, Unit:		1 in	2 in	2 in	4 in
Height Minimum, Maximum:				2 3	3 5
Density, Unit:		5 m2	5 m2	5 m2	5 m2
	F		G		
Pest 1 Code, Disc., Scale:	SETVI W	SETVI W			
Height, Unit:	4 in	6 in			
Height Minimum, Maximum:		4 8			
Density, Unit:	5 m2	5 m2			
Pest 2 Code, Disc., Scale:	ABUTH W	ABUTH W			
Stage Majority, Percent:	none				
Height, Unit:		4 in			
Height Minimum, Maximum:					
Density, Unit:		3 m2			
Pest 3 Code, Disc., Scale:	HIBTR W	HIBTR W			
Stage Majority, Percent:	none				
Height, Unit:		4 in			
Height Minimum, Maximum:					
Density, Unit:		5 m2			

Application Equipment

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

Northeast Research & Extension Center

2007 Glufosinate / Soybean / Efficacy / Weed Control Programs / LL Soybean 30"

Trial ID: 07SLL-8
Location: Concord, NE

Protocol ID:
Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Description	Soybean	Soybean	Soybean	Soybean	Green foxtail	Green foxtail	Green foxtail	Velvetleaf	Velvetleaf
Rating Date	08-13-07	08-26-07	09-04-07	09-24-07	08-26-07	09-04-07	09-24-07	08-13-07	08-26-07
Rating Data Type	Injury	Injury	Injury	Injury	Control	Control	Control	Control	Control
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Days After First/Last Applic.	42 0	55 0	64 0	84 20	55 0	64 0	84 20	42 0	55 0
Plant-Eval Interval	42 DP-1	55 DP-1	64 DP-1	84 DP-1	55 DP-1	64 DP-1	84 DP-1	42 DP-1	55 DP-1
Trt No.	Treatment Name	Rate	Unit	Growth Stage					
1	Nontreated Check				0.0 a	0.0 a	0.0 a	0.0 a	0.0 b
2	Prowl H20	3 pt/a		PRE	0.0 a	0.0 a	0.3 a	0.0 a	0.0 a
	SP17385	22 oz/a		21 DAP					
	Ammonium Sulfate	8.5 lb/100 gal		21 DAP					
3	Prowl H20	3 pt/a		PRE	0.0 a	0.0 a	0.0 a	0.0 a	0.0 a
	SP17385	22 oz/a		32 DAP					
	Ammonium Sulfate	8.5 lb/100 gal		32 DAP					
4	Authority First	4 oz/a		PRE	0.0 a	3.3 a	0.0 a	0.0 a	0.0 a
	SP17385	22 oz/a		21 DAP					
	Ammonium Sulfate	8.5 lb/100 gal		21 DAP					
5	Authority First	4 oz/a		PRE	0.0 a	0.0 a	0.0 a	0.0 a	0.0 a
	SP17385	22 oz/a		32 DAP					
	Ammonium Sulfate	8.5 lb/100 gal		32 DAP					
6	SP17385	22 oz/a		21 DAP	0.0 a	3.3 a	1.7 a	0.0 a	0.0 a
	Ammonium Sulfate	8.5 lb/100 gal		21 DAP					
	SP17385	22 oz/a		21 DA B					
	Ammonium Sulfate	8.5 lb/100 gal		21 DA B					
7	SP17385	29 oz/a		21 DAP	0.0 a	6.7 a	0.0 a	0.0 a	0.0 a
	Ammonium Sulfate	8.5 lb/100 gal		21 DAP					
	SP17385	29 oz/a		21 DA B					
	Ammonium Sulfate	8.5 lb/100 gal		21 DA B					
8	SP17385	22 oz/a		28 DAP	0.0 a	0.0 a	0.7 a	0.0 a	0.0 a
	Ammonium Sulfate	8.5 lb/100 gal		28 DAP					
	SP17385	22 oz/a		28 DA C					
	Ammonium Sulfate	8.5 lb/100 gal		28 DA C					
9	SP17385	29 oz/a		28 DAP	0.0 a	0.0 a	1.7 a	0.0 a	0.0 a
	Ammonium Sulfate	8.5 lb/100 gal		28 DAP					
	SP17385	29 oz/a		28 DA C					
	Ammonium Sulfate	8.5 lb/100 gal		28 DA C					
10	SP17385	43 oz/a		32 DAP	0.0 a	0.0 a	0.0 a	0.0 a	0.0 a
	Ammonium Sulfate	8.5 lb/100 gal		32 DAP					
	SP17385	43 oz/a		32 DA D					
	Ammonium Sulfate	8.5 lb/100 gal		32 DA D					
11	Liberty	60 oz/a		32 DAP	0.0 a	0.0 a	0.0 a	0.0 a	0.0 a
	Ammonium Sulfate	8.5 lb/100 gal		32 DAP					
	Liberty	60 oz/a		32 DA D					
	Ammonium Sulfate	8.5 lb/100 gal		32 DA D					
LSD (P=.05)		0.00	4.50	1.63	0.00	20.05	21.81	18.56	2.97
Standard Deviation		0.00	2.64	0.96	0.00	11.77	12.81	10.90	1.68
CV		0.0	217.8	242.44	0.0	15.21	15.79	12.68	1.88
Grand Mean		0.0	1.21	0.39	0.0	77.36	81.09	85.94	89.59
Replicate F		0.000	0.761	0.233	0.000	9.026	5.454	2.921	0.650
Replicate Prob(F)		1.0000	0.4803	0.7946	1.0000	0.0016	0.0129	0.0771	0.5382
Treatment F		0.000	2.174	1.449	0.000	16.273	15.469	21.748	937.170
Treatment Prob(F)		1.0000	0.0669	0.2302	1.0000	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Northeast Research & Extension Center

Description				Velvetleaf	Velvetleaf	Venice Mallow	Venice Mallow	Venice Mallow	Venice Mallow
Rating Date				09-04-07	09-24-07	08-13-07	08-26-07	09-04-07	09-24-07
Rating Data Type				Control	Control	Control	Control	Control	Control
Rating Unit				Percent	Percent	Percent	Percent	Percent	Percent
Days After First/Last Applic.				64 0	84 20	42 0	55 0	64 0	84 20
Plant-Eval Interval				64 DP-1	84 DP-1	42 DP-1	55 DP-1	64 DP-1	84 DP-1
Trt No.	Treatment Name	Rate Rate Unit	Growth Stage						
1	Nontreated Check			0.0 c	0.0 b	0.0 b	0.0 b	0.0 b	0.0 b
2	Prowl H20	3 pt/a	PRE	99.0 a	99.0 a	84.5 a	84.5 a	74.5 a	74.5 a
	SP17385	22 oz/a	21 DAP						
	Ammonium Sulfate	8.5 lb/100 gal	21 DAP						
3	Prowl H20	3 pt/a	PRE	99.0 a	99.0 a	99.0 a	94.5 a	90.0 a	80.0 a
	SP17385	22 oz/a	32 DAP						
	Ammonium Sulfate	8.5 lb/100 gal	32 DAP						
4	Authority First	4 oz/a	PRE	99.0 a	99.0 a	99.0 a	99.0 a	99.0 a	99.0 a
	SP17385	22 oz/a	21 DAP						
	Ammonium Sulfate	8.5 lb/100 gal	21 DAP						
5	Authority First	4 oz/a	PRE	99.0 a	99.0 a	99.0 a	99.0 a	97.0 a	99.0 a
	SP17385	22 oz/a	32 DAP						
	Ammonium Sulfate	8.5 lb/100 gal	32 DAP						
6	SP17385	22 oz/a	21 DAP	99.0 a	99.0 a	99.0 a	99.0 a	99.0 a	99.0 a
	Ammonium Sulfate	8.5 lb/100 gal	21 DAP						
	SP17385	22 oz/a	21 DA B						
	Ammonium Sulfate	8.5 lb/100 gal	21 DA B						
7	SP17385	29 oz/a	21 DAP	99.0 a	99.0 a	84.5 a	99.0 a	99.0 a	99.0 a
	Ammonium Sulfate	8.5 lb/100 gal	21 DAP						
	SP17385	29 oz/a	21 DA B						
	Ammonium Sulfate	8.5 lb/100 gal	21 DA B						
8	SP17385	22 oz/a	28 DAP	99.0 a	99.0 a	99.0 a	84.5 a	99.0 a	97.0 a
	Ammonium Sulfate	8.5 lb/100 gal	28 DAP						
	SP17385	22 oz/a	28 DA C						
	Ammonium Sulfate	8.5 lb/100 gal	28 DA C						
9	SP17385	29 oz/a	28 DAP	99.0 a	99.0 a	99.0 a	89.5 a	99.0 a	99.0 a
	Ammonium Sulfate	8.5 lb/100 gal	28 DAP						
	SP17385	29 oz/a	28 DA C						
	Ammonium Sulfate	8.5 lb/100 gal	28 DA C						
10	SP17385	43 oz/a	32 DAP	94.5 b	99.0 a	99.0 a	94.5 a	94.5 a	99.0 a
	Ammonium Sulfate	8.5 lb/100 gal	32 DAP						
	SP17385	43 oz/a	32 DA D						
	Ammonium Sulfate	8.5 lb/100 gal	32 DA D						
11	Liberty	60 oz/a	32 DAP	99.0 a	99.0 a	99.0 a	94.5 a	90.0 a	99.0 a
	Ammonium Sulfate	8.5 lb/100 gal	32 DAP						
	Liberty	60 oz/a	32 DA D						
	Ammonium Sulfate	8.5 lb/100 gal	32 DA D						
LSD (P=.05)				3.74	0.00	18.48	17.98	27.78	26.80
Standard Deviation				2.02	0.00	8.30	8.07	12.05	11.62
CV				2.26	0.0	9.49	9.46	14.08	13.54
Grand Mean				89.59	90.0	87.36	85.27	85.55	85.86
Replicate F				0.450	0.000	2.222	7.548	0.606	0.945
Replicate Prob(F)				0.6512	1.0000	0.1669	0.0206	0.4586	0.3594
Treatment F				648.810	0.000	25.381	25.484	11.847	13.128
Treatment Prob(F)				0.0001	1.0000	0.0001	0.0001	0.0009	0.0006

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.

Additional Treatment Information	
Treatment Name	Ammonium Sulfate =
Rate Unit	
PT/A = Pints Product per Acre (Metric=L/HA) P	
OZ/A = Ounces Product per Acre (Metric=ML-G/HA) O	
LB/100 GAL = Pounds Dry Product per 100 Gallons Mix (Metric=KG/100 L)]	