

Commercial comparisons in no-till soybean

Trial ID: NTS01-09 Study Dir.: Sprague, Powell
 Conducted: C-13 Campus Investigator: Christy Sprague

Date Planted: 5/20/09 Row Spacing: 7.5 IN
 Variety: Asgrow 2107 No. of Reps: 4
 Population: 200,000 % OM: 2.9
 Soil Type: Silt Loam pH: 7.5
 Plot Size: 10 X 30 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: No-Till drilled into standing corn stalks
 Fertilizer: None

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	TAROF	DANDELION, COMMON	TARAXACUM OFFICINALE
2.	STEME	CHICKWEED, COMMON	STELLARIA MEDIA (L.)
3.	ERIST	FLEABANE, ROUGH	ERIGERON STRIGOSUS MUHL.
4.	RANAB	BUTTERCUP, SMALLFLOWER	RANUNCULUS ABORTIVUS L.
5.	ANGR	mainly foxtail species	SETARI SP.
6.	AMBEL	RAGWEED, COMMON	AMBROSIA ARTEMISIFOLIA L.
Crop	Code	Common Name	
1.	GLXMA	SOYBEAN	

Application Description

	A	B	C
Application Timing:	7 EPP	MPOS	POST
Date Treated:	5/8/09	6/23/09	6/25/09
Time Treated:	9:00 am	10:30 pm	12:30 pm
% Cloud Cover:	5	0	45
Air Temp., Unit:	69 F	89 F	89 F
% Relative Humidity:	65.8	60	52
Wind Speed/Unit/Dir:	2 mph SW	2 mph SW	4 mph SW
Soil Temp., Unit:	54.7 F	73 F	77 F
Soil/Leaf Surface M:	4 5	3 5	5 5
Soil Moist (1=w 5=d):	3	3	4

Crop Stage at Each Application

	A	B	C
Crop Name:	GLXMA	GLXMA	GLXMA
Height (In.):	-	5	7
Stage (L):	-	V2	V2-V3

Weed Stage at Each Application

	A	B	C
Weed 1 Name:	TAROF	TAROF	TAROF
Height (In.):	10 dia.	14 dia	15 dia
Stage (L):	many	many	many
Weed 2 Name:	STEME	STEME	STEME
Height (In.):	10 dia	14 dia	10 dia
Stage (L):	many	many	many
Weed 3 Name:	ERIST	ERIST	ERIST
Height (In.):	9	24	24
Stage (L):	many	many	many
Weed 4 Name:	RANAB	RANAB	RANAB
Height (In.):	4 dia	6 dia	8 dia
Stage (L):	many	many	many
Weed 5 Name:	ANGR	ANGR	ANGR
Height (In.):	-	5	6
Stage (L):	-	3	4
Weed 6 Name:	AMBEL	AMBEL	AMBEL
Height (In.):	-	4	5
Stage (L):	-	many	many

Weed Density (plants/sq. ft.)

Weed Name:	1	2	3	4	5	6
TAROF	1	5	8	<1	4	2

Application Equipment

Appl	Sprayer Type	Speed MPH	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	GPA	Carrier	PSI
A	Cub	3.8	AirMix	11003	27"	20"	100"	19	Water	28
B	Cub	3.8	AirMix	11003	27"	20"	100"	19	Water	28
C	Cub	3.8	AirMix	11003	27"	20"	100"	19	Water	28

Commercial comparisons in no-till soybean

Trial ID: NTS01-09
 Conducted: C-13 Campus

Study Dir.: Sprague, Powell
 Investigator: Christy Sprague

Weed Code	GLXMA	STEME	ERIST	TAROF	RANAB	MELAL	NOTILL	GLXMA	ANGR
Crop Code	injury	control	control	control	control	control	control	injury	control
Rating Data Type	percent	percent	percent	percent	percent	percent	percent	percent	percent
Rating Unit	6/12/09	6/12/09	6/12/09	6/12/09	6/12/09	6/12/09	6/26/09	6/26/09	6/26/09
Rating Date	35 DA-A	35 DA-A	35 DA-A	35 DA-A	35 DA-A	35 DA-A	3 DA-B	3 DA-B	3 DA-B
Trt-Eval Interval									

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	GLXMA	STEME	ERIST	TAROF	RANAB	MELAL	NOTILL	GLXMA	ANGR
18	Prefix	5.29	L	2	pt/a	7 EPP	A	0	85	75	17	85	96	59	0	95
18	Gramoxone Inteon	2	SL	2.5	pt/a	7 EPP	A									
18	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A									
18	Herbimax (COC)		L	1	% v/v	7 EPP	A									
18	Touchdown Total	4.17	SL	24	fl oz/a	POST	C									
18	AMS		WG	17	lb/100 gal	POST	C									
19	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A	0	99	99	99	99	99	93	0	0
19	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A									
19	AMS		WG	17	lb/100 gal	7 EPP	A									
19	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C									
19	AMS		WG	17	lb/100 gal	POST	C									
20	Ignite	2.34	L	22	fl oz/a	7 EPP	A	0	79	85	93	23	91	58	0	0
20	AMS		WG	17	lb/100 gal	7 EPP	A									
20	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C									
20	AMS		WG	17	lb/100 gal	POST	C									
21	Ignite	2.34	L	36	fl oz/a	7 EPP	A	0	91	90	99	30	99	58	0	0
21	AMS		WG	17	lb/100 gal	7 EPP	A									
21	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C									
21	AMS		WG	17	lb/100 gal	POST	C									
22	Untreated							0	0	0	0	0	0	23	0	0
23	Canopy	75	WG	2.25	oz/a	7 EPP	A	0	82	99	87	99	94	75	0	71
23	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A									
23	Herbimax (COC)		L	1	% v/v	7 EPP	A									
23	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C									
23	AMS		WG	17	lb/100 gal	POST	C									
24	Weed-free							0	99	99	98	99	99	99	0	99
24	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A									
24	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A									
24	AMS		WG	17	lb/100 gal	7 EPP	A									
24	Roundup PowerMax	4.5	SL	22	fl oz/a	MPOS	B									
24	AMS		WG	17	lb/100 gal	MPOS	B									
24	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C									
24	AMS		WG	17	lb/100 gal	POST	C									
LSD (P=.05)								0.0	7.9	16.0	13.5	14.0	6.2	14.6	1.0	14.2
Standard Deviation								0.0	5.6	11.3	9.6	9.9	4.4	10.4	0.7	10.1
CV								0.0	6.23	12.72	11.1	11.63	4.72	12.99	16.53	15.92

Commercial comparisons in no-till soybean

Trial ID: NTS01-09
 Conducted: C-13 Campus

Study Dir.: Sprague, Powell
 Investigator: Christy Sprague

Weed Code	AMBEL	NOTILL	GLXMA	ANGR	AMBEL	NOTILL	GLXMA	ANGR	AMBEL
Crop Code	control	WEEDS	injury	control	control	WEEDS	injury	control	control
Rating Data Type	percent	percent	percent	percent	percent	percent	percent	percent	percent
Rating Unit	6/26/09	7/24/09	7/24/09	7/24/09	7/24/09	8/20/09	8/20/09	8/20/09	8/20/09
Rating Date	3 DA-B	31 DA-B	31 DA-B	31 DA-B	31 DA-B	56 DA-C	56 DA-C	56 DA-C	56 DA-C
Trt-Eval Interval									

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	AMBEL	NOTILL	GLXMA	ANGR	AMBEL	NOTILL	GLXMA	ANGR	AMBEL
18	Prefix	5.29	L	2	pt/a	7 EPP	A	99	92	0	99	99	96	2	99	99
18	Gramoxone Inteon	2	SL	2.5	pt/a	7 EPP	A									
18	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A									
18	Herbimax (COC)		L	1	% v/v	7 EPP	A									
18	Touchdown Total	4.17	SL	24	fl oz/a	POST	C									
18	AMS		WG	17	lb/100 gal	POST	C									
19	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A	0	98	0	99	99	93	0	96	99
19	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A									
19	AMS		WG	17	lb/100 gal	7 EPP	A									
19	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C									
19	AMS		WG	17	lb/100 gal	POST	C									
20	Ignite	2.34	L	22	fl oz/a	7 EPP	A	0	82	0	99	99	95	1	98	99
20	AMS		WG	17	lb/100 gal	7 EPP	A									
20	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C									
20	AMS		WG	17	lb/100 gal	POST	C									
21	Ignite	2.34	L	36	fl oz/a	7 EPP	A	0	90	0	97	99	92	1	99	98
21	AMS		WG	17	lb/100 gal	7 EPP	A									
21	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C									
21	AMS		WG	17	lb/100 gal	POST	C									
22	Untreated							0	0	0	0	0	0	0	0	0
23	Canopy	75	WG	2.25	oz/a	7 EPP	A	99	99	0	99	99	99	0	99	99
23	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A									
23	Herbimax (COC)		L	1	% v/v	7 EPP	A									
23	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C									
23	AMS		WG	17	lb/100 gal	POST	C									
24	Weed-free							99	99	0	99	99	99	0	99	99
24	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A									
24	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A									
24	AMS		WG	17	lb/100 gal	7 EPP	A									
24	Roundup PowerMax	4.5	SL	22	fl oz/a	MPOS	B									
24	AMS		WG	17	lb/100 gal	MPOS	B									
24	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C									
24	AMS		WG	17	lb/100 gal	POST	C									

LSD (P=.05)	13.2	11.5	1.7	0.9	0.0	11.2	1.5	2.9	1.5
Standard Deviation	9.4	8.1	1.2	0.6	0.0	7.9	1.1	2.1	1.1
CV	11.79	9.28	244.62	0.68	0.0	9.03	255.99	2.21	1.12

Commercial comparisons in no-till soybean

Trial ID: NTS01-09
 Conducted: C-13 Campus

Study Dir.: Sprague, Powell
 Investigator: Christy Sprague

Weed Code	CHEAL	GLXMA	GLXMA
Crop Code	control	moisture	yield
Rating Data Type	percent	percent	bu/acre
Rating Unit	8/20/09	10/13/09	10/13/09
Rating Date	56 DA-C	158 DA-A	at 13% M
Trt-Eval Interval			

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code			
1	Envive (3.5 oz)	41.3	WG					99	16.3	67.5
1	Classic	25	WG	1.28	oz/a	7 EPP	A			
1	Harmony SG	50	WG	0.208	oz/a	7 EPP	A			
1	Valor	51	WG	2	oz/a	7 EPP	A			
1	Prowl H2O	3.8	L	2	pt/a	7 EPP	A			
1	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A			
1	Herbimax (COC)		L	1	% v/v	7 EPP	A			
1	Flexstar (IFN)	1.88	L	1	pt/a	MPOS	B			
1	Assure II (IFN)	0.88	L	8	fl oz/a	MPOS	B			
1	Herbimax (COC) (IFN)		L	1	% v/v	MPOS	B			
2	Prowl H2O	3.8	L	2	pt/a	7 EPP	A	99	15.3	68.2
2	Extreme	2.17	L	3	pt/a	7 EPP	A			
2	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A			
2	Activator 90		L	0.25	% v/v	7 EPP	A			
2	AMS		WG	17	lb/100 gal	7 EPP	A			
2	Flexstar	1.88	L	10	fl oz/a	MPOS	B			
2	Herbimax (COC)		L	1	% v/v	MPOS	B			
3	Boundary	6.5	L	2.5	pt/a	7 EPP	A	96	16.3	64.0
3	Gramoxone Inteon	2	SL	2.5	pt/a	7 EPP	A			
3	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A			
3	Herbimax (COC)		L	1	% v/v	7 EPP	A			
3	Flexstar	1.88	L	1	pt/a	MPOS	B			
3	Fusion	2.56	L	8	fl oz/a	MPOS	B			
3	Herbimax (COC)		L	0.5	% v/v	MPOS	B			
4	Valor XLT	40.3	WG	3.5	oz/a	7 EPP	A	99	19.4	65.8
4	Prowl H2O	3.8	L	2	pt/a	7 EPP	A			
4	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A			
4	Activator 90		L	0.25	% v/v	7 EPP	A			
4	Cobra	2	L	8	fl oz/a	MPOS	B			
4	SelectMax	0.97	L	10	fl oz/a	MPOS	B			
4	Activator 90		L	0.25	% v/v	MPOS	B			
4	AMS		WG	2.5	lb/a	MPOS	B			
5	Ignite	2.34	L	22	fl oz/a	7 EPP	A	98	18.1	61.0
5	Prowl H2O	3.8	L	2	pt/a	7 EPP	A			
5	AMS		WG	17	lb/100 gal	7 EPP	A			
5	Flexstar	1.88	L	1	pt/a	MPOS	B			
5	Select	2	L	6	oz/a	MPOS	B			
5	Herbimax (COC)		L	1	% v/v	MPOS	B			
6	Ignite	2.34	L	22	fl oz/a	7 EPP	A	99	16.9	61.0
6	Valor	51	WG	2.5	oz/a	7 EPP	A			
6	AMS		WG	17	lb/100 gal	7 EPP	A			
6	Flexstar	1.88	L	1	pt/a	MPOS	B			
6	Select	2	L	6	oz/a	MPOS	B			
6	Herbimax (COC)		L	1	% v/v	MPOS	B			
7	Envive (2.5 oz)	41.3	WG					99	16.9	69.2
7	Classic	25	WG	0.92	oz/a	7 EPP	A			
7	Harmony SG	50	WG	0.149	oz/a	7 EPP	A			
7	Valor	51	WG	1.5	oz/a	7 EPP	A			
7	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A			
7	Herbimax (COC)		L	1	% v/v	7 EPP	A			
7	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C			
7	AMS		WG	17	lb/100 gal	POST	C			
8	Flexstar GT	3.31	SL	3	pt/a	7 EPP	A	99	15.1	69.2
8	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A			
8	Herbimax (COC)		L	0.5	% v/v	7 EPP	A			
8	AMS		WG	17	lb/100 gal	7 EPP	A			
8	Touchdown Total	4.17	SL	24	fl oz/a	POST	C			
8	AMS		WG	17	lb/100 gal	POST	C			

Commercial comparisons in no-till soybean

Trial ID: NTS01-09
 Conducted: C-13 Campus

Study Dir.: Sprague, Powell
 Investigator: Christy Sprague

Weed Code	CHEAL	GLXMA	GLXMA
Crop Code	control	moisture	yield
Rating Data Type	percent	percent	bu/acre
Rating Unit	8/20/09	10/13/09	10/13/09
Rating Date	56 DA-C	158 DA-A	at 13% M
Trt-Eval Interval			

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code			
9	Extreme	2.17	L	3	pt/a	7 EPP	A	99	15.0	71.7
9	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A			
9	Activator 90		L	0.25	% v/v	7 EPP	A			
9	AMS		WG	17	lb/100 gal	7 EPP	A			
9	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C			
9	AMS		WG	17	lb/100 gal	POST	C			
10	Python	80	WG	0.8	oz/a	7 EPP	A	99	14.2	73.6
10	Durango DMA	4	SL	24	fl oz/a	7 EPP	A			
10	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A			
10	AMS		WG	17	lb/100 gal	7 EPP	A			
10	Durango DMA	4	SL	24	fl oz/a	POST	C			
10	AMS		WG	17	lb/100 gal	POST	C			
11	Sonic	70	WG	3	oz/a	7 EPP	A	99	15.4	68.2
11	Durango DMA	4	SL	24	fl oz/a	7 EPP	A			
11	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A			
11	AMS		WG	17	lb/100 gal	7 EPP	A			
11	Durango DMA	4	SL	24	fl oz/a	POST	C			
11	AMS		WG	17	lb/100 gal	POST	C			
12	Prowl H2O	3.8	L	2	pt/a	7 EPP	A	99	15.2	68.0
12	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A			
12	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A			
12	AMS		WG	17	lb/100 gal	7 EPP	A			
12	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C			
12	AMS		WG	17	lb/100 gal	POST	C			
13	IntRRo	4	L	2	qt/a	7 EPP	A	97	15.6	70.7
13	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A			
13	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A			
13	AMS		WG	17	lb/100 gal	7 EPP	A			
13	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C			
13	AMS		WG	17	lb/100 gal	POST	C			
14	Valor	51	WG	2	oz/a	7 EPP	A	99	14.8	66.7
14	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A			
14	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A			
14	AMS		WG	17	lb/100 gal	7 EPP	A			
14	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C			
14	AMS		WG	17	lb/100 gal	POST	C			
15	Valor XLT	40.3	WG	3	oz/a	7 EPP	A	99	15.0	68.9
15	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A			
15	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A			
15	AMS		WG	17	lb/100 gal	7 EPP	A			
15	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C			
15	AMS		WG	17	lb/100 gal	POST	C			
16	Gangster (2.4 oz/A)							99	15.1	70.0
16	Gangster (V)	51	WG	2	oz/a	7 EPP	A			
16	Gangster (FR)	84	WG	0.4	oz/a	7 EPP	A			
16	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A			
16	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A			
16	AMS		WG	17	lb/100 gal	7 EPP	A			
16	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C			
16	AMS		WG	17	lb/100 gal	POST	C			
17	Boundary	6.5	L	2.5	pt/a	7 EPP	A	99	14.9	68.2
17	Gramoxone Inteon	2	SL	2.5	pt/a	7 EPP	A			
17	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A			
17	Herbimax (COC)		L	1	% v/v	7 EPP	A			
17	Flexstar GT	3.31	SL	3	pt/a	POST	C			
17	Activator 90		L	0.25	% v/v	POST	C			
17	AMS		WG	17	lb/100 gal	POST	C			

Commercial comparisons in no-till soybean

Trial ID: NTS01-09
 Conducted: C-13 Campus

Study Dir.: Sprague, Powell
 Investigator: Christy Sprague

Weed Code	CHEAL	GLXMA	GLXMA
Crop Code	control	moisture	yield
Rating Data Type	percent	percent	bu/acre
Rating Unit	8/20/09	10/13/09	10/13/09
Rating Date	56 DA-C	158 DA-A	at 13% M
Trt-Eval Interval			

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code			
18	Prefix	5.29	L	2	pt/a	7 EPP	A	99	14.2	68.9
18	Gramoxone Inteon	2	SL	2.5	pt/a	7 EPP	A			
18	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A			
18	Herbimax (COC)		L	1	% v/v	7 EPP	A			
18	Touchdown Total	4.17	SL	24	fl oz/a	POST	C			
18	AMS		WG	17	lb/100 gal	POST	C			
19	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A	90	15.0	67.4
19	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A			
19	AMS		WG	17	lb/100 gal	7 EPP	A			
19	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C			
19	AMS		WG	17	lb/100 gal	POST	C			
20	Ignite	2.34	L	22	fl oz/a	7 EPP	A	87	14.5	67.5
20	AMS		WG	17	lb/100 gal	7 EPP	A			
20	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C			
20	AMS		WG	17	lb/100 gal	POST	C			
21	Ignite	2.34	L	36	fl oz/a	7 EPP	A	88	14.7	64.8
21	AMS		WG	17	lb/100 gal	7 EPP	A			
21	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C			
21	AMS		WG	17	lb/100 gal	POST	C			
22	Untreated							0	15.5	32.8
23	Canopy	75	WG	2.25	oz/a	7 EPP	A	99	15.4	66.7
23	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A			
23	Herbimax (COC)		L	1	% v/v	7 EPP	A			
23	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C			
23	AMS		WG	17	lb/100 gal	POST	C			
24	Weed-free							99	15.0	68.4
24	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A			
24	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A			
24	AMS		WG	17	lb/100 gal	7 EPP	A			
24	Roundup PowerMax	4.5	SL	22	fl oz/a	MPOS	B			
24	AMS		WG	17	lb/100 gal	MPOS	B			
24	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C			
24	AMS		WG	17	lb/100 gal	POST	C			
LSD (P=.05)								3.4	1.96	10.36
Standard Deviation								2.4	1.39	7.33
CV								2.55	8.9	11.07