

Evaluation of the new technologies Kixor and Vida in no-till soybean

Trial ID: NTS02-09 Study Dir.: Sprague, Powell
 Conducted: C-27N Campus Investigator: Christy Sprague

Date Planted: 5/19/09 Row Spacing: 7.5 IN
 Variety: Asgrow 2107 No. of Reps: 4
 Population: 200,000 % OM: 3.1
 Soil Type: Sandy Loam pH: 6.4
 Plot Size: 10 X 35 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: No-till drilled into standing corn stubble
 Fertilizer: None

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	STEME	CHICKWEED, COMMON	STELLARIA MEDIA (L.)
2.	TAROF	DANDELION, COMMON	TARAXACUM OFFICINALE
3.	ERICA	HORSEWEED (Marestail)	CONYZA CANADENSIS L.
4.	ANGR	mainly foxtail species	SETARIA SP.
5.	POANN	BLUEGRASS, ANNUAL	POA ANNUA L.
6.	AMBEL	RAGWEED, COMMON	AMBROSIA ARTEMISIIFOLIA L.
Crop	Code	Common Name	
1.	GLXMA	SOYBEAN	

Application Description

	A	B
Application Timing:	7 EPP	POST
Date Treated:	5/12/09	6/23/09
Time Treated:	2:45 pm	9:45 am
% Cloud Cover:	10	5
Air Temp., Unit:	71 F	89 F
% Relative Humidity:	31	60
Wind Speed/Unit/Dir:	3 mph SE	1 mph SW
Soil Temp., Unit:	62 F	71 F
Soil/Leaf Surface M:	5 5	5 5
Soil Moist (1=w 5=d):	3	3

Crop Stage at Each Application

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

Weed Stage at Each Application

	A	B
Weed 1 Name:	STEME	STEME
Height (In.):	8 dia	12 dia
Stage (L):	many	many
Weed 2 Name:	TAROF	TAROF
Height (In.):	6	12
Stage (L):	many	many
Weed 3 Name:	ERICA	ERICA
Height (In.):	3	12
Stage (L):	8	many
Weed 4 Name:	ANGR	ANGR
Height (In.):	5	8
Stage (L):	many	4
Weed 5 Name:	POANN	POANN
Height (In.):	2	4
Stage (L):	6	many
Weed 6 Name:	AMBEL	AMBEL
Height (In.):	-	4-6
Stage (L):	-	many

Weed Density (plants/sq. ft.)

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

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	25"	20"	100"	19	Water	28
B	Cub	3.8	AirMix	11003	27"	20"	100"	19	Water	28

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Comments: The annual grass and common ragweed populations are sporadic throughout this trial causing high variability in the evaluations of these species prior to the postemergence herbicide treatments.

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Weed Code	STEME	POANN	STEME	POAAN	ERICA	AMBEL	GLXMA	STEME	ERICA
Crop Code							injury		
Rating Data Type	control	control	control	control	control	control	percent	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent	percent
Rating Date	5/18/09	5/18/09	6/2/09	6/2/09	6/2/09	6/2/09	6/16/09	6/16/09	6/16/09
Trt-Eval Interval	6 DA-A	6 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	35 DA-A	35 DA-A	35 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	STEME	POANN	STEME	POAAN	ERICA	AMBEL	GLXMA	STEME	ERICA
12	Vida	0.2	L	1	fl oz/a	7 EPP	A	40	5	99	97	90	94	0	99	91
12	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A									
12	Herbimax (COC)		L	1	% v/v	7 EPP	A									
12	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B									
12	AMS		WG	17	lb/100 gal	POST	B									
13	Vida	0.2	L	1	fl oz/a	7 EPP	A	75	13	73	20	35	99	0	64	38
13	Valor	51	WG	2	oz/a	7 EPP	A									
13	Herbimax (COC)		L	1	% v/v	7 EPP	A									
13	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B									
13	AMS		WG	17	lb/100 gal	POST	B									
14	Vida	0.2	L	1	fl oz/a	7 EPP	A	80	13	85	33	40	99	0	64	48
14	Valor XLT	40.3	WG	3	oz/a	7 EPP	A									
14	Herbimax (COC)		L	1	% v/v	7 EPP	A									
14	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B									
14	AMS		WG	17	lb/100 gal	POST	B									
15	GWN-9794	75	WG	0.33	oz/a	7 EPP	A	18	8	28	15	18	99	0	0	0
15	Herbimax (COC)		L	1	% v/v	7 EPP	A									
15	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B									
15	AMS		WG	17	lb/100 gal	POST	B									
LSD (P=.05)								14.5	6.6	9.2	9.2	10.4	3.0	0.0	16.7	14.6
Standard Deviation								10.2	4.6	6.4	6.4	7.3	2.1	0.0	11.7	10.2
CV								19.36	46.75	9.15	12.83	10.04	2.32	0.0	17.26	14.17

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Weed Code	ANGR	AMBEL	NOTILL	GLXMA	ANGR	AMBEL	ERICA	GLXMA	GLXMA
Crop Code			WEEDS	injury				moisture	yield
Rating Data Type	control	control	control	percent	control	control	control	percent	bu/acre
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent	
Rating Date	6/16/09	6/16/09	7/16/09	7/16/09	7/16/09	7/16/09	7/16/09	10/12/09	10/12/09
Trt-Eval Interval	35 DA-A	35 DA-A	65 DA-A	65 DA-A	65 DA-A	65 DA-A	65 DA-A	153 DA-A	at 13% M

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code									
12	Vida	0.2	L	1	fl oz/a	7 EPP	A	54	60	99	0	96	99	99	16.7	66.1
12	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A									
12	Herbimax (COC)		L	1	% v/v	7 EPP	A									
12	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B									
12	AMS		WG	17	lb/100 gal	POST	B									
13	Vida	0.2	L	1	fl oz/a	7 EPP	A	72	94	99	0	93	99	99	17.6	60.2
13	Valor	51	WG	2	oz/a	7 EPP	A									
13	Herbimax (COC)		L	1	% v/v	7 EPP	A									
13	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B									
13	AMS		WG	17	lb/100 gal	POST	B									
14	Vida	0.2	L	1	fl oz/a	7 EPP	A	37	93	97	0	98	99	99	17.7	59.3
14	Valor XLT	40.3	WG	3	oz/a	7 EPP	A									
14	Herbimax (COC)		L	1	% v/v	7 EPP	A									
14	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B									
14	AMS		WG	17	lb/100 gal	POST	B									
15	GWN-9794	75	WG	0.33	oz/a	7 EPP	A	0	0	99	0	98	99	99	17.5	59.3
15	Herbimax (COC)		L	1	% v/v	7 EPP	A									
15	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B									
15	AMS		WG	17	lb/100 gal	POST	B									
LSD (P=.05)								43.8	41.1	1.3	0.0	3.7	2.8	0.0	1.36	6.83
Standard Deviation								30.7	28.8	0.9	0.0	2.6	2.0	0.0	0.95	4.78
CV								75.24	44.62	0.97	0.0	2.88	2.14	0.0	5.51	8.14