

MSU Weed Science Research Program

Evaluation of ET in No-Till Soybean

Trial ID: NTS02-07
 Conducted: C-13 Campus

Study Dir.: Sprague, Powell
 Investigator: Christy Sprague

Date Planted: 5/14/07	Row Spacing: 7.5 IN
Variety: Asgrow 2107	No. of Reps: 4
Population: 205,000 seeds/acre	% OM: 2.9
Soil Type: Sandy Clay Loam	pH: 7.1
Plot Size: 10 X 30 FT	Design: RANDOMIZED COMPLETE BLOCK

Tillage: No-Till
Fertilizer: None at Planting

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	MELAL	COCKLE, WHITE	MELANDRIUM ALBUM (MILL.) GARCKE
2.	TAROF	DANDELION, COMMON	TARAXACUM OFFICINALE WEBER IN WIGGERS
3.	ERIST	FLEABANE, ROUGH	ERIGERON STRIGOSUS
4.	ANGR	mainly foxtail and crabgrass sp.	SETARIA and DIGITARIA SP.
5.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
6.	STEME	CHICKWEED, COMMON	STELLARIA MEDIA (L.) VILL./CYR.
Crop	Code	Common Name	
1.	GLXMA	SOYBEAN	

Application Description

A

Application Timing: 7 day EPP
Date Treated: 5/7/07
Time Treated: 11:00 am
% Cloud Cover: 30
Air Temp., Unit: 68 F
% Relative Humidity: 33
Wind Speed/Unit/Dir: 7 mph SE
Soil Temp., Unit: 60 F
Soil/Leaf Surface M: 5 5
Soil Moist (1=w 5=d): 5

Crop Stage at Each Application

A

Crop Name: GLXMA
Height (In.): -
Stage (L): -

Weed Stage at Each Application

A

Weed 1 Name: MELAL
Height (In.): 8-12"
Stage (L): -

Weed 2 Name: TAROF
Height (In.): 10-18" dia
Stage (L): -

Weed 3 Name: ERIST
Height (In.): 6-10"
Stage (L): -

Weed 4 Name: ANGR
Height (In.): 4-6"
Stage (L): -

Weed 5 Name: CHEAL
Height (In.): 1/4-1"
Stage (L): coty- 4

Weed 6 Name: STEME
Height (In.): 3-6"
Stage (L): Flowering

MSU Weed Science Research Program

Evaluation of ET in No-Till Soybean

Trial ID: NTS02-07
Conducted: C-13 Campus

Study Dir.: Sprague, Powell
Investigator: Christy Sprague

Weed Density (plants/sq. ft.)

	1	2	3	4	5	6
Date:	7/10/07	7/10/07	7/10/07	7/10/07	7/10/07	7/10/07
Weed Name:	STEME	VERPG	ERIST	TAROF	DAUCA	MELAL
Density:	< 1	< 1	1	6	< 1	< 1
	7	8				
Date:	7/10/07	7/10/07				
Weed Name:	ANGR	CHEAL				
Density:	36	< 1				

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom			
	Type	MPH	Type	Size	Height	Spacing	Width	GPA	Carrier	PSI
A	Cub	3.8	AirMix	11003	24"	20"	100"	19	H20	27

MSU Weed Science Research Program

Evaluation of ET in No-Till Soybean

Trial ID: NTS02-07
 Conducted: C-13 Campus

Study Dir.: Sprague, Powell
 Investigator: Christy Sprague

Weed Code								STEME	VERPG	ERIPH	TAROF	DAUCA	STEME	VERPG
Crop Code														
Rating Data Type								control	control	control	control	control	control	control
Rating Unit								percent	percent	percent	percent	percent	percent	percent
Rating Date								5/14/07	5/14/07	5/14/07	5/14/07	5/14/07	5/21/07	5/21/07
Trt-Eval Interval								7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	14 DA-A	14 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code							
1	Roundup WeatherMax	4.5	SL	22	fl oz/a	7 EPP	A	28	25	14	0	3	99	92
1	Dual II Magnum	7.64	EC	1.33	pt/a	7 EPP	A							
1	AMS		WG	17	lb/100 gal	7 EPP	A							
2	Roundup WeatherMax	4.5	SL	22	fl oz/a	7 EPP	A	31	24	18	29	13	99	96
2	ET	0.2	L	1	fl oz/a	7 EPP	A							
2	Dual II Magnum	7.64	EC	1.33	pt/a	7 EPP	A							
2	AMS		WG	17	lb/100 gal	7 EPP	A							
3	Roundup WeatherMax	4.5	SL	22	fl oz/a	7 EPP	A	36	26	24	50	10	99	99
3	ET	0.2	L	1	fl oz/a	7 EPP	A							
3	Valor	51	WG	2	oz/a	7 EPP	A							
3	AMS		WG	17	lb/100 gal	7 EPP	A							
4	Untreated							0	0	0	0	0	0	0
5	Roundup WeatherMax	4.5	SL	22	fl oz/a	7 EPP	A	35	20	20	38	10	99	99
5	ET	0.2	L	1	fl oz/a	7 EPP	A							
5	FirstRate	84	WG	0.3	oz/a	7 EPP	A							
5	AMS		WG	17	lb/100 gal	7 EPP	A							
6	Roundup WeatherMax	4.5	SL	22	fl oz/a	7 EPP	A	28	20	21	31	15	99	97
6	ET	0.2	L	1	fl oz/a	7 EPP	A							
6	Pursuit	70	WG	1.4	oz/a	7 EPP	A							
6	AMS		WG	17	lb/100 gal	7 EPP	A							
7	Rage D-Tech	4	EC	0.75	pt/a	7 EPP	A	30	28	31	45	13	63	91
7	Dual II Magnum	7.64	EC	1.33	pt/a	7 EPP	A							
7	Crop Oil Concentrate		L	1	% v/v	7 EPP	A							
8	Roundup WeatherMax	4.5	SL	22	fl oz/a	7 EPP	A	43	35	43	43	15	99	99
8	Rage D-Tech	4	EC	0.75	pt/a	7 EPP	A							
8	Dual II Magnum	7.64	EC	1.33	pt/a	7 EPP	A							
8	AMS		WG	17	lb/100 gal	7 EPP	A							
9	Roundup WeatherMax	4.5	SL	22	fl oz/a	7 EPP	A	28	30	33	34	15	99	99
9	2,4-D Ester	4	L	1	pt/a	7 EPP	A							
9	Dual II Magnum	7.64	EC	1.33	pt/a	7 EPP	A							
9	AMS		WG	17	lb/100 gal	7 EPP	A							
LSD (P=.05)								12.3	11.1	10.8	10.3	8.6	2.4	6.4
Standard Deviation								8.4	7.6	7.4	7.1	5.7	1.7	4.4
CV								29.38	33.11	32.95	23.67	53.71	1.99	5.08

MSU Weed Science Research Program

Evaluation of ET in No-Till Soybean

Trial ID: NTS02-07
 Conducted: C-13 Campus

Study Dir.: Sprague, Powell
 Investigator: Christy Sprague

Weed Code	ERIPH	TAROF	DAUCA	STEME	VERPG	ERIPH	TAROF
Crop Code							
Rating Data Type	control	control	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Rating Date	5/21/07	5/21/07	5/21/07	6/7/07	6/7/07	6/7/07	6/7/07
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	31 DA-A	31 DA-A	31 DA-A	31 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	ERIPH	TAROF	DAUCA	STEME	VERPG	ERIPH	TAROF
1	Roundup WeatherMax	4.5	SL	22	fl oz/a	7 EPP	A	66	70	33	99	99	95	99
1	Dual II Magnum	7.64	EC	1.33	pt/a	7 EPP	A							
1	AMS		WG	17	lb/100 gal	7 EPP	A							
2	Roundup WeatherMax	4.5	SL	22	fl oz/a	7 EPP	A	54	68	27	99	99	92	97
2	ET	0.2	L	1	fl oz/a	7 EPP	A							
2	Dual II Magnum	7.64	EC	1.33	pt/a	7 EPP	A							
2	AMS		WG	17	lb/100 gal	7 EPP	A							
3	Roundup WeatherMax	4.5	SL	22	fl oz/a	7 EPP	A	71	87	45	99	99	89	96
3	ET	0.2	L	1	fl oz/a	7 EPP	A							
3	Valor	51	WG	2	oz/a	7 EPP	A							
3	AMS		WG	17	lb/100 gal	7 EPP	A							
4	Untreated							0	0	0	0	0	0	0
5	Roundup WeatherMax	4.5	SL	22	fl oz/a	7 EPP	A	63	83	30	99	99	93	96
5	ET	0.2	L	1	fl oz/a	7 EPP	A							
5	FirstRate	84	WG	0.3	oz/a	7 EPP	A							
5	AMS		WG	17	lb/100 gal	7 EPP	A							
6	Roundup WeatherMax	4.5	SL	22	fl oz/a	7 EPP	A	78	75	55	99	99	92	91
6	ET	0.2	L	1	fl oz/a	7 EPP	A							
6	Pursuit	70	WG	1.4	oz/a	7 EPP	A							
6	AMS		WG	17	lb/100 gal	7 EPP	A							
7	Rage D-Tech	4	EC	0.75	pt/a	7 EPP	A	15	43	7	35	97	33	28
7	Dual II Magnum	7.64	EC	1.33	pt/a	7 EPP	A							
7	Crop Oil Concentrate		L	1	% v/v	7 EPP	A							
8	Roundup WeatherMax	4.5	SL	22	fl oz/a	7 EPP	A	78	70	35	99	99	95	75
8	Rage D-Tech	4	EC	0.75	pt/a	7 EPP	A							
8	Dual II Magnum	7.64	EC	1.33	pt/a	7 EPP	A							
8	AMS		WG	17	lb/100 gal	7 EPP	A							
9	Roundup WeatherMax	4.5	SL	22	fl oz/a	7 EPP	A	68	83	27	99	99	97	77
9	2,4-D Ester	4	L	1	pt/a	7 EPP	A							
9	Dual II Magnum	7.64	EC	1.33	pt/a	7 EPP	A							
9	AMS		WG	17	lb/100 gal	7 EPP	A							
LSD (P=.05)								15.4	14.0	18.1	2.8	2.2	8.5	17.5
Standard Deviation								10.5	9.6	12.0	1.9	1.5	5.8	12.0
CV								19.31	14.95	41.68	2.38	1.71	7.66	16.39

MSU Weed Science Research Program

Evaluation of ET in No-Till Soybean

Trial ID: NTS02-07
 Conducted: C-13 Campus

Study Dir.: Sprague, Powell
 Investigator: Christy Sprague

Weed Code	DAUCA		
Crop Code		GLXMA	GLXMA
Rating Data Type	control	moisture	yield
Rating Unit	percent	percent	bu/acre
Rating Date	6/7/07	10/8/07	10/8/07
Trt-Eval Interval	31 DA-A	154 DA-A	at 13% M

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code			
1	Roundup WeatherMax	4.5	SL	22	fl oz/a	7 EPP	A	73	14.6	45.7
1	Dual II Magnum	7.64	EC	1.33	pt/a	7 EPP	A			
1	AMS		WG	17	lb/100 gal	7 EPP	A			
2	Roundup WeatherMax	4.5	SL	22	fl oz/a	7 EPP	A	80	15.4	40.7
2	ET	0.2	L	1	fl oz/a	7 EPP	A			
2	Dual II Magnum	7.64	EC	1.33	pt/a	7 EPP	A			
2	AMS		WG	17	lb/100 gal	7 EPP	A			
3	Roundup WeatherMax	4.5	SL	22	fl oz/a	7 EPP	A	73	15.0	43.1
3	ET	0.2	L	1	fl oz/a	7 EPP	A			
3	Valor	51	WG	2	oz/a	7 EPP	A			
3	AMS		WG	17	lb/100 gal	7 EPP	A			
4	Untreated							0	17.1	13.8
5	Roundup WeatherMax	4.5	SL	22	fl oz/a	7 EPP	A	70	15.3	43.5
5	ET	0.2	L	1	fl oz/a	7 EPP	A			
5	FirstRate	84	WG	0.3	oz/a	7 EPP	A			
5	AMS		WG	17	lb/100 gal	7 EPP	A			
6	Roundup WeatherMax	4.5	SL	22	fl oz/a	7 EPP	A	91	15.2	42.8
6	ET	0.2	L	1	fl oz/a	7 EPP	A			
6	Pursuit	70	WG	1.4	oz/a	7 EPP	A			
6	AMS		WG	17	lb/100 gal	7 EPP	A			
7	Rage D-Tech	4	EC	0.75	pt/a	7 EPP	A	23	17.2	29.2
7	Dual II Magnum	7.64	EC	1.33	pt/a	7 EPP	A			
7	Crop Oil Concentrate		L	1	% v/v	7 EPP	A			
8	Roundup WeatherMax	4.5	SL	22	fl oz/a	7 EPP	A	30	15.8	35.3
8	Rage D-Tech	4	EC	0.75	pt/a	7 EPP	A			
8	Dual II Magnum	7.64	EC	1.33	pt/a	7 EPP	A			
8	AMS		WG	17	lb/100 gal	7 EPP	A			
9	Roundup WeatherMax	4.5	SL	22	fl oz/a	7 EPP	A	89	15.4	41.8
9	2,4-D Ester	4	L	1	pt/a	7 EPP	A			
9	Dual II Magnum	7.64	EC	1.33	pt/a	7 EPP	A			
9	AMS		WG	17	lb/100 gal	7 EPP	A			
LSD (P=.05)								17.5	1.90	11.39
Standard Deviation								11.5	1.30	7.80
CV								19.51	8.32	20.91