Next Generation Formulatons of Glyphosate

Trial ID: NTS05-08 Study Dir.: Sprague, Powell
Conducted: T-16 Botany Investigator: Christy Sprague

Date Planted: 5/13/08 **Row Spacing:** 7.5 IN
Variety: Asgrow 2107 **No. of Reps:** 5
Population: 210,000 seeds/Acre **% OM:** 2.6
Soil Type: Sandy Loam **pH:** 6.3
Plot Size: 10 **X** 40 **FT** **Design:** RANDOMIZED COMPLETE BLOCK

Tillage: No-till into standing corn stubble
Fertilizer: none at planting

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
2.	ERICA	HORSEWEED (Marestail)	CONYZA CANADENSIS L.
3.	TAROF	DANDELION, COMMON	TARAXACUM OFFICINALE
4.	VERPG	SPEEDWELL, PURSLANE	VERONICA PEREGRINA L.
5.	AMASS	REDROOT PIGWEED, POWELL AMARANTH	AMARANTHUS SP.
6.	STEME	CHICKWEED, COMMON	STELLARIA MEDIA (L.)

Crop	Code	Common Name
1.	GLXMA	SOYBEAN

Application Description

	A
Application Timing:	POST
Date Treated:	6/12/08
Time Treated:	3:30 PM
% Cloud Cover:	90
Air Temp., Unit:	85 F
% Relative Humidity:	51
Wind Speed/Unit/Dir:	6 mph S
Soil Temp., Unit:	77 F
Soil/Leaf Surface M:	4 5
Soil Moist (1=w 5=d):	4

Crop Stage at Each Application

	A
Crop Name:	GLXMA
Height (In.):	3-5
Stage (L):	VC-V1

Weed Stage at Each Application

	A
Weed 1 Name:	CHEAL
Height (In.):	1-16
Stage (L):	4-many
Weed 2 Name:	ERICA
Height (In.):	2-10
Stage (L):	many
Weed 3 Name:	TAROF
Height (In.):	8-15
Stage (L):	flowering
Weed 4 Name:	VERPG
Height (In.):	2-6
Stage (L):	flowering
Weed 5 Name:	AMASS
Height (In.):	1-2
Stage (L):	4-8
Weed 6 Name:	STEME
Height (In.):	8-13
Stage (L):	flowering

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Weed Density (plants/sq. ft.)

	1	2	3	4	5	6	7
Date:	7/25/08	7/25/08	7/25/08	7/25/08	7/25/08	7/25/08	7/25/08
Weed Name:	TAROF	ERICA	CHEAL	ERIST	ANGR	VERPG	ABUTH
Density:	0.1	0.7	6.1	0.3	6.2	1.3	0.3

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	26	20	100	19	water	28

MSU Weed Science Research Program

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Weed Code								CHEAL	ERICA
Crop Code									
Rating Data Type								control	control
Rating Unit								percent	percent
Rating Date								7/1/08	7/1/08
Trt-Eval Interval								19 DA-A	19 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code		
1	MON 76238	4.5	SL	0.56	lb ae/a	POST	A	84	92
2	MON 76237	4.5	SL	0.56	lb ae/a	POST	A	94	86
3	MON 79790	4.5	SL	0.56	lb ae/a	POST	A	93	89
4	MON 76301	4.5	SL	0.56	lb ae/a	POST	A	94	95
5	MON 76410	4.5	SL	0.56	lb ae/a	POST	A	96	91
6	MON 76186	4.5	SL	0.56	lb ae/a	POST	A	74	90
7	MON 76415	4.5	SL	0.56	lb ae/a	POST	A	76	89
8	Untreated							0	0
9	MON 76238	4.5	SL	0.75	lb ae/a	POST	A	96	98
10	MON 76237	4.5	SL	0.75	lb ae/a	POST	A	98	93
11	MON 79790	4.5	SL	0.75	lb ae/a	POST	A	92	98
12	MON 76301	4.5	SL	0.75	lb ae/a	POST	A	99	98
13	MON 76410	4.5	SL	0.75	lb ae/a	POST	A	92	97
14	MON 76186	4.5	SL	0.75	lb ae/a	POST	A	93	96
15	MON 76415	4.5	SL	0.75	lb ae/a	POST	A	95	97
16	MON 79616	4.2	SL	0.75	lb ae/a	POST	A	96	93
17	MON 79614	5	SL	0.75	lb ae/a	POST	A	76	86
17	Activator 90		L	0.25	% v/v	POST	A		
18	MON 79685	4	SL	0.75	lb ae/a	POST	A	82	99
LSD (P=.10)								8.6	5.7
Standard Deviation								8.2	5.4
CV								9.61	6.14