

MSU Weed Science Research Program

NuFarm Glyphosate Mixed Salt POST RR Soybean Screen

Trial ID: SOY11-06 Study Dir.: Sprague, Powell
Conducted: N Quonset Field Investigator: Christy Sprague

Date Planted: 6/5/2006 Row Spacing: 30 IN
Variety: Garst 1827 RR/STS No. of Reps: 4
Population: 150,000 seed/acre % OM: 3.3
Soil Type: Loam pH: 6.9
Plot Size: 10 X 35 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Spring Chisel and disk, 6/5/06
Fertilizer: None at planting

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	AMASS	Redroot pigweed, Powell amaranth	Amaranthus sp.
2.	ABUTH	VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.
3.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
4.	AMBEL	RAGWEED, COMMON	AMBROSIA ARTEMISIIFOLIA
5.	ANGR	Annual grass	mainly foxtail, panicum
6.	SOLPT	NIGHTSHADE, EASTERN BLACK	SOLANUM PTYCANTHUM DUNAL
7.	BRAKA/SINAR	MUSTARD, WILD	BRASSICA KABER

Crop	Code	Common Name
1.	GLXMA	SOYBEAN

Application Description

A
Application Timing: Post
Date Treated: 7/6/2006
Time Treated: 4:00 PM
% Cloud Cover: 20
Air Temp., Unit: 78 F
% Relative Humidity: 30
Wind Speed/Unit/Dir: 5 mph NE
Soil Temp., Unit: 83 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.): 7-9"
Stage (L): 3 V

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Weed Stage at Each Application

A

Weed 1 Name: AMASS
 Height (In.): 2-7"
 Stage (L): 4-many
 Weed 2 Name: ABUTH
 Height (In.): 2-6"
 Stage (L): 2-5
 Weed 3 Name: CHEAL
 Height (In.): 1-9"
 Stage (L): 4-many
 Weed 4 Name: AMBEL
 Height (In.): 0.5-9"
 Stage (L): 2-many
 Weed 5 Name: ANGR
 Height (In.): 3-8"
 Stage (L): 4-7
 Weed 6 Name: SOLPT
 Height (In.): 0.5-1"
 Stage (L): 2-4
 Weed 7 Name: BRAKA/SINAR
 Height (In.): 2-5"
 Stage (L): 2-4

Weed Density (plants/sq. ft.)

	1	2	3	4	5
Date:	7/21/2006	7/21/2006	7/21/2006	7/21/2006	7/21/2006
Weed Name:	CHEAL	ABUTH	ANGR	BRAKA	AMBEL
Density:	<1	1	2	1	4

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	26"	20"	100"	19	water	27

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Weed Code							ANGR	ABUTH	AMBEL	CHEAL	ANGR	CHEAL	AMARE	
Crop Code														
Rating Data Type							control	control	control	control	control	control	control	control
Rating Unit							percent	percent	percent	percent	percent	percent	percent	percent
Rating Date							7/13/2006	7/13/2006	7/13/2006	7/13/2006	7/20/2006	7/20/2006	7/20/2006	7/20/2006
Trt-Eval Interval							7 DA-A	7 DA-A	7 DA-A	7 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code								
1	NUP 3C 02	3	24	fl oz/a	POST	A	86	75	72	65	96	97	99	
1	Ammonium sulfate		17	lb/100 gal	POST	A								
2	NUP 4U 05	3	24	fl oz/a	POST	A	85	76	75	31	95	81	99	
2	Ammonium sulfate		17	lb/100 gal	POST	A								
3	NUP 10B 04	3	24	fl oz/a	POST	A	89	80	78	78	99	93	99	
3	Ammonium sulfate		17	lb/100 gal	POST	A								
4	NUP 3C 02	3	16	fl oz/a	POST	A	83	61	72	53	99	93	99	
4	Ammonium sulfate		17	lb/100 gal	POST	A								
5	NUP 4U 05	3	16	fl oz/a	POST	A	85	68	70	28	97	71	99	
5	Ammonium sulfate		17	lb/100 gal	POST	A								
6	NUP 10B 04	3	16	fl oz/a	POST	A	88	78	72	43	97	80	99	
6	Ammonium sulfate		17	lb/100 gal	POST	A								
7	NUP-06053	4.5	16	fl oz/a	POST	A	89	78	74	39	98	73	99	
7	Ammonium sulfate		17	lb/100 gal	POST	A								
8	NUP-06042	3	24	fl oz/a	POST	A	88	78	69	60	99	95	99	
8	Ammonium sulfate		17	lb/100 gal	POST	A								
9	NUP-06073	3	24	fl oz/a	POST	A	86	75	67	63	99	95	99	
9	Ammonium sulfate		17	lb/100 gal	POST	A								
10	NUP-06077	4.5	16	fl oz/a	POST	A	85	71	66	70	99	96	99	
10	Ammonium sulfate		17	lb/100 gal	POST	A								
11	NUP-06004	3	24	fl oz/a	POST	A	87	80	74	53	99	94	99	
11	Ammonium sulfate		17	lb/100 gal	POST	A								
12	NUP-06044	4.5	16	fl oz/a	POST	A	88	78	73	65	99	93	99	
12	Ammonium sulfate		17	lb/100 gal	POST	A								
13	NUP-06008	3	24	fl oz/a	POST	A	86	76	76	38	98	92	99	
13	Ammonium sulfate		17	lb/100 gal	POST	A								
14	NUP-06045	4.5	16	fl oz/a	POST	A	84	78	72	70	97	92	99	
14	Ammonium sulfate		17	lb/100 gal	POST	A								
15	NUP-06036	4.5	16	fl oz/a	POST	A	88	76	71	85	99	96	99	
15	Ammonium sulfate		17	lb/100 gal	POST	A								
16	NUP-06036	4.5	11	fl oz/a	POST	A	80	65	57	73	97	93	99	
16	Ammonium sulfate		17	lb/100 gal	POST	A								
17	NUP 3C 02	3.0	48	fl oz/a	POST	A	91	83	77	83	99	99	99	
17	Ammonium sulfate		17	lb/100 gal	POST	A								
18	NUP 10B 04	3.0	48	fl oz/a	POST	A	88	78	70	90	99	99	99	
18	Ammonium sulfate		17	lb/100 gal	POST	A								
19	NUP 4U 05	3.0	48	fl oz/a	POST	A	89	80	68	59	99	91	99	
19	Ammonium sulfate		17	lb/100 gal	POST	A								
20	Untreated Control					A	0	0	0	0	0	0	0	
LSD (P=.05)							4.9	11.1	13.7	22.9	3.8	7.9	0.0	
Standard Deviation							3.5	7.9	9.7	15.9	2.7	5.6	0.0	
CV							4.24	11.0	14.34	27.76	2.87	6.46	0.0	

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Weed Code	ABUTH	AMBEL	ANGR	CHEAL	AMARE	ABUTH	AMBEL	ANGR
Crop Code								
Rating Data Type	control	control	control	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent
Rating Date	7/20/2006	7/20/2006	7/27/2006	7/27/2006	7/27/2006	7/27/2006	7/27/2006	8/4/2006
Trt-Eval Interval	14 DA-A	14 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	29 DA-A

Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code	ABUTH	AMBEL	ANGR	CHEAL	AMARE	ABUTH	AMBEL	ANGR
1	NUP 3C 02	3	24	fl oz/a	POST	A	99	97	96	97	99	98	99	95
1	Ammonium sulfat		17	lb/100 gal	POST	A								
2	NUP 4U 05	3	24	fl oz/a	POST	A	99	99	96	76	99	96	97	94
2	Ammonium sulfat		17	lb/100 gal	POST	A								
3	NUP 10B 04	3	24	fl oz/a	POST	A	99	98	98	95	99	99	98	96
3	Ammonium sulfat		17	lb/100 gal	POST	A								
4	NUP 3C 02	3	16	fl oz/a	POST	A	92	97	98	87	97	98	95	95
4	Ammonium sulfat		17	lb/100 gal	POST	A								
5	NUP 4U 05	3	16	fl oz/a	POST	A	98	98	96	71	99	94	96	96
5	Ammonium sulfat		17	lb/100 gal	POST	A								
6	NUP 10B 04	3	16	fl oz/a	POST	A	96	98	97	77	99	99	97	94
6	Ammonium sulfat		17	lb/100 gal	POST	A								
7	NUP-06053	4.5	16	fl oz/a	POST	A	99	98	98	75	99	99	92	96
7	Ammonium sulfat		17	lb/100 gal	POST	A								
8	NUP-06042	3	24	fl oz/a	POST	A	99	99	98	93	99	98	98	97
8	Ammonium sulfat		17	lb/100 gal	POST	A								
9	NUP-06073	3	24	fl oz/a	POST	A	98	97	98	95	99	99	97	97
9	Ammonium sulfat		17	lb/100 gal	POST	A								
10	NUP-06077	4.5	16	fl oz/a	POST	A	98	99	99	96	99	99	96	96
10	Ammonium sulfat		17	lb/100 gal	POST	A								
11	NUP-06004	3	24	fl oz/a	POST	A	99	99	98	96	99	98	99	96
11	Ammonium sulfat		17	lb/100 gal	POST	A								
12	NUP-06044	4.5	16	fl oz/a	POST	A	97	99	99	93	99	98	97	94
12	Ammonium sulfat		17	lb/100 gal	POST	A								
13	NUP-06008	3	24	fl oz/a	POST	A	99	99	98	94	98	99	99	94
13	Ammonium sulfat		17	lb/100 gal	POST	A								
14	NUP-06045	4.5	16	fl oz/a	POST	A	99	98	97	95	99	99	97	94
14	Ammonium sulfat		17	lb/100 gal	POST	A								
15	NUP-06036	4.5	16	fl oz/a	POST	A	99	99	99	98	99	99	97	98
15	Ammonium sulfat		17	lb/100 gal	POST	A								
16	NUP-06036	4.5	11	fl oz/a	POST	A	99	95	98	95	99	97	97	92
16	Ammonium sulfat		17	lb/100 gal	POST	A								
17	NUP 3C 02	3.0	48	fl oz/a	POST	A	99	99	99	99	99	98	98	98
17	Ammonium sulfat		17	lb/100 gal	POST	A								
18	NUP 10B 04	3.0	48	fl oz/a	POST	A	99	99	99	98	97	99	97	97
18	Ammonium sulfat		17	lb/100 gal	POST	A								
19	NUP 4U 05	3.0	48	fl oz/a	POST	A	99	99	98	92	99	98	99	96
19	Ammonium sulfat		17	lb/100 gal	POST	A								
20	Untreated Control					A	0	0	0	0	0	0	0	0
LSD (P=.05)							4.1	2.2	2.3	9.6	2.0	3.8	4.1	4.6
Standard Deviation							2.9	1.6	1.6	6.8	1.4	2.7	2.9	3.2
CV							3.14	1.67	1.77	7.86	1.47	2.89	3.12	3.56

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Weed Code	CHEAL	AMARE	AMBEL	ABUTH
Crop Code				
Rating Data Type	control	control	control	control
Rating Unit	percent	percent	percent	percent
Rating Date	8/4/2006	8/4/2006	8/4/2006	8/4/2006
Trt-Eval Interval	29 DA-A	29 DA-A	29 DA-A	29 DA-A

Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code				
1	NUP 3C 02	3	24	fl oz/a	POST	A	94	99	99	99
1	Ammonium sulfate		17	lb/100 gal	POST	A				
2	NUP 4U 05	3	24	fl oz/a	POST	A	69	99	99	99
2	Ammonium sulfate		17	lb/100 gal	POST	A				
3	NUP 10B 04	3	24	fl oz/a	POST	A	86	99	99	99
3	Ammonium sulfate		17	lb/100 gal	POST	A				
4	NUP 3C 02	3	16	fl oz/a	POST	A	88	99	99	99
4	Ammonium sulfate		17	lb/100 gal	POST	A				
5	NUP 4U 05	3	16	fl oz/a	POST	A	71	99	99	99
5	Ammonium sulfate		17	lb/100 gal	POST	A				
6	NUP 10B 04	3	16	fl oz/a	POST	A	77	99	99	99
6	Ammonium sulfate		17	lb/100 gal	POST	A				
7	NUP-06053	4.5	16	fl oz/a	POST	A	72	99	96	98
7	Ammonium sulfate		17	lb/100 gal	POST	A				
8	NUP-06042	3	24	fl oz/a	POST	A	89	99	99	99
8	Ammonium sulfate		17	lb/100 gal	POST	A				
9	NUP-06073	3	24	fl oz/a	POST	A	88	99	96	98
9	Ammonium sulfate		17	lb/100 gal	POST	A				
10	NUP-06077	4.5	16	fl oz/a	POST	A	95	99	98	98
10	Ammonium sulfate		17	lb/100 gal	POST	A				
11	NUP-06004	3	24	fl oz/a	POST	A	88	99	99	97
11	Ammonium sulfate		17	lb/100 gal	POST	A				
12	NUP-06044	4.5	16	fl oz/a	POST	A	87	99	98	98
12	Ammonium sulfate		17	lb/100 gal	POST	A				
13	NUP-06008	3	24	fl oz/a	POST	A	86	99	99	98
13	Ammonium sulfate		17	lb/100 gal	POST	A				
14	NUP-06045	4.5	16	fl oz/a	POST	A	89	99	99	99
14	Ammonium sulfate		17	lb/100 gal	POST	A				
15	NUP-06036	4.5	16	fl oz/a	POST	A	97	99	99	99
15	Ammonium sulfate		17	lb/100 gal	POST	A				
16	NUP-06036	4.5	11	fl oz/a	POST	A	94	99	98	97
16	Ammonium sulfate		17	lb/100 gal	POST	A				
17	NUP 3C 02	3.0	48	fl oz/a	POST	A	98	99	99	98
17	Ammonium sulfate		17	lb/100 gal	POST	A				
18	NUP 10B 04	3.0	48	fl oz/a	POST	A	99	98	99	99
18	Ammonium sulfate		17	lb/100 gal	POST	A				
19	NUP 4U 05	3.0	48	fl oz/a	POST	A	87	99	98	98
19	Ammonium sulfate		17	lb/100 gal	POST	A				
20	Untreated Control					A	0	0	0	0

LSD (P=.05)	10.7	0.8	2.0	2.4
Standard Deviation	7.6	0.6	1.4	1.7
CV	9.19	0.59	1.52	1.83