

MSU Weed Science Research Program

Evaluation of NuFarm Glyphosate and 2,4-D Combinations

Trial ID: NTS05-06 Study Dir.: Sprague, Powell
Conducted: H-5 East Old Soils Investigator: Christy Sprague

Date Planted: 5/25/2006 Row Spacing: 30 IN
Variety: Pioneer 91M91 No. of Reps: 4
Population: 155,000 seeds/acre % OM: 2.2
Soil Type: Sandy Loam pH: 6.9
Plot Size: 10 X 40 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: No-Till
Fertilizer: None

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	THLAR	PENNYCRESS, FIELD	THLASPI ARVENSE L.
2.	STEME	CHICKWEED, COMMON	STELLARIA MEDIA (L.) VILL./CYR.
3.	TAROF	DANDELION, COMMON	TARAXACUM OFFICINALE WEBER IN WIGGERS
4.	CAPBP	SHEPHERDSPURSE	CAPSELLA BURSA-PASTORIS (L.) MEDIK.
5.	VERPG	SPEEDWELL, PURSLANE	VERONICA PEREGRINA L.
6.	MELAL	COCKLE, WHITE	MELANDRIUM ALBUM (MILL.) GARCCKE
7.	DESPI	TANSYMUSTARD	DESCURAINIA PINNATA (WALT.) BRITT.
Crop	Code	Common Name	
1.	-	-	

Application Description

A
Application Timing: 7 EPP
Date Treated: 5/4/2006
Time Treated: 7:15 pm
% Cloud Cover: 30
Air Temp., Unit: 60 F
% Relative Humidity: 36
Wind Speed/Unit/Dir: 10 mph W
Soil Temp., Unit: 59 F
Soil/Leaf Surface M: 5 -
Soil Moist (1=w 5=d): 5

Crop Stage at Each Application

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

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Weed Stage at Each Application

A

Weed 1 Name: THLAR
 Height (In.): 8-16
 Stage (L): flowering
 Weed 2 Name: STEME
 Height (In.): 8-14 dia
 Stage (L): flowering
 Weed 3 Name: TAROF
 Height (In.): 4-8 dia
 Stage (L): flowering
 Weed 4 Name: CAPBP
 Height (In.): 6-16
 Stage (L): flowering
 Weed 5 Name: VERPG
 Height (In.): 4-6 dia
 Stage (L): many
 Weed 6 Name: MELAL
 Height (In.): 4-6
 Stage (L): 10-18
 Weed 7 Name: DESPI
 Height (In.): 8-12
 Stage (L): flowering

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	AMBEL	THLAR
Density:	<1	<1	2	1	1

Application Equipment

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

Comments: Previous Crop: Soybean. Previous Herbicide: Roundup

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Weed Code						THLAR	STEME	VERPG	THLAR	STEME	VERPG	THLAR		
Crop Code												GLYMX		
Rating Data Type						control	control	control	control	control	control	injury	control	
Rating Unit						percent	percent	percent	percent	percent	percent	percent	percent	
Rating Date						5/18/2006	5/18/2006	5/18/2006	5/25/2006	5/25/2006	5/25/2006	6/2/2006	6/2/2006	
Trt-Eval Interval						14 DA-A	14 DA-A	14 DA-A	21 DA-A	21 DA-A	21 DA-A	29 DA-A	29 DA-A	
Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code								
16	NUP-06056	3	16	fl oz/a	7 EPP	A	65	71	65	87	94	95	0	88
16	NUP 2F 02	3.8	12	fl oz/a	7 EPP	A								
16	AMS		17	lb/100 gal	7 EPP	A								
17	NUP-06056	3	16	fl oz/a	7 EPP	A	61	75	72	83	99	97	0	81
17	NUP 12K 04	3.8	12	fl oz/a	7 EPP	A								
17	AMS		17	lb/100 gal	7 EPP	A								
18	NUP-06044	4.5	10.7	fl oz/a	7 EPP	A	71	67	67	90	98	96	0	87
18	NUP 2F 02	3.8	12	fl oz/a	7 EPP	A								
18	AMS		17	lb/100 gal	7 EPP	A								
19	NUP-06044	4.5	10.7	fl oz/a	7 EPP	A	64	67	70	88	97	96	0	84
19	NUP 12K 04	3.8	12	fl oz/a	7 EPP	A								
19	AMS		17	lb/100 gal	7 EPP	A								
20	NUP-06045	4.5	10.7	fl oz/a	7 EPP	A	67	67	62	88	95	97	0	94
20	NUP 2F 02	3.8	12	fl oz/a	7 EPP	A								
20	AMS		17	lb/100 gal	7 EPP	A								
21	NUP-06045	4.5	10.7	fl oz/a	7 EPP	A	71	72	67	90	97	96	0	90
21	NUP 12K 04	3.8	12	fl oz/a	7 EPP	A								
21	AMS		17	lb/100 gal	7 EPP	A								
22	NUP-06053	4.5	10.7	fl oz/a	7 EPP	A	69	72	70	89	99	99	0	87
22	NUP 2F 02	3.8	12	fl oz/a	7 EPP	A								
22	AMS		17	lb/100 gal	7 EPP	A								
23	NUP-06053	4.5	10.7	fl oz/a	7 EPP	A	62	57	63	85	96	98	0	89
23	NUP 12K 04	3.8	12	fl oz/a	7 EPP	A								
23	AMS		17	lb/100 gal	7 EPP	A								
24	NUP 3C 02	3	16	fl oz/a	7 EPP	A	49	56	44	84	95	97	0	87
24	AMS		17	lb/100 gal	7 EPP	A								
25	NUP 3E 04	2.67	30	fl oz/a	7 EPP	A	70	66	60	92	96	98	0	89
25	AMS		17	lb/100 gal	7 EPP	A								
26	Untreated						0	0	0	0	0	0	0	0
LSD (P=.05)							10.3	11.3	9.4	9.4	3.8	2.7	0.0	8.4
Standard Deviation							7.3	8.0	6.6	6.7	2.7	1.9	0.0	5.9
CV							11.46	12.36	10.65	7.87	2.9	2.06	0.0	6.96

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Weed Code	STEME	VERPG
Crop Code		
Rating Data Type	control	control
Rating Unit	percent	percent
Rating Date	6/2/2006	6/2/2006
Trt-Eval Interval	29 DA-A	29 DA-A

Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code		
1	NUP 4U 05	3	16	fl oz/a	7 EPP	A	99	99
1	NUP 2F 02	3.8	12	fl oz/a	7 EPP	A		
1	AMS		17	lb/100 gal	7 EPP	A		
2	NUP 4U 05	3	16	fl oz/a	7 EPP	A	99	99
2	NUP 12K 04	3.8	12	fl oz/a	7 EPP	A		
2	AMS		17	lb/100 gal	7 EPP	A		
3	NUP 10B 04	3	16	fl oz/a	7 EPP	A	99	99
3	NUP 2F 02	3.8	12	fl oz/a	7 EPP	A		
3	AMS		17	lb/100 gal	7 EPP	A		
4	NUP 10B 04	3	16	fl oz/a	7 EPP	A	99	99
4	NUP 2E 03	3.8	12	fl oz/a	7 EPP	A		
4	AMS		17	lb/100 gal	7 EPP	A		
5	NUP 10B 04	3	16	fl oz/a	7 EPP	A	99	99
5	NUP 12K 04	3.8	12	fl oz/a	7 EPP	A		
5	AMS		17	lb/100 gal	7 EPP	A		
6	NUP 3C 02	3	16	fl oz/a	7 EPP	A	99	99
6	NUP 2F 02	3.8	12	fl oz/a	7 EPP	A		
6	AMS		17	lb/100 gal	7 EPP	A		
7	NUP 3C 02	3	16	fl oz/a	7 EPP	A	99	99
7	NUP 12K 04	3.8	12	fl oz/a	7 EPP	A		
7	AMS		17	lb/100 gal	7 EPP	A		
8	NUP-06042	3	16	fl oz/a	7 EPP	A	99	99
8	NUP 2F 02	3.8	12	fl oz/a	7 EPP	A		
8	AMS		17	lb/100 gal	7 EPP	A		
9	NUP-06042	3	16	fl oz/a	7 EPP	A	99	99
9	NUP 12K 04	3.8	12	fl oz/a	7 EPP	A		
9	AMS		17	lb/100 gal	7 EPP	A		
10	NUP-06004	3	16	fl oz/a	7 EPP	A	99	99
10	NUP 2F 02	3.8	12	fl oz/a	7 EPP	A		
10	AMS		17	lb/100 gal	7 EPP	A		
11	NUP-06004	3	16	fl oz/a	7 EPP	A	99	99
11	NUP 12K 04	3.8	12	fl oz/a	7 EPP	A		
11	AMS		17	lb/100 gal	7 EPP	A		
12	NUP-06008	3	16	fl oz/a	7 EPP	A	99	99
12	NUP 2F 02	3.8	12	fl oz/a	7 EPP	A		
12	AMS		17	lb/100 gal	7 EPP	A		
13	NUP-06008	3	16	fl oz/a	7 EPP	A	99	99
13	NUP 12K 04	3.8	12	fl oz/a	7 EPP	A		
13	AMS		17	lb/100 gal	7 EPP	A		
14	NUP-06055	3	16	fl oz/a	7 EPP	A	99	99
14	NUP 2F 02	3.8	12	fl oz/a	7 EPP	A		
14	AMS		17	lb/100 gal	7 EPP	A		
15	NUP-06055	3	16	fl oz/a	7 EPP	A	99	99
15	NUP 12K 04	3.8	12	fl oz/a	7 EPP	A		
15	AMS		17	lb/100 gal	7 EPP	A		

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Crop Code		
Rating Data Type	control	control
Rating Unit	percent	percent
Rating Date	6/2/2006	6/2/2006
Trt-Eval Interval	29 DA-A	29 DA-A

Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code		
16	NUP-06056	3	16	fl oz/a	7 EPP	A	99	99
16	NUP 2F 02	3.8	12	fl oz/a	7 EPP	A		
16	AMS		17	lb/100 gal	7 EPP	A		
17	NUP-06056	3	16	fl oz/a	7 EPP	A	99	99
17	NUP 12K 04	3.8	12	fl oz/a	7 EPP	A		
17	AMS		17	lb/100 gal	7 EPP	A		
18	NUP-06044	4.5	10.7	fl oz/a	7 EPP	A	99	99
18	NUP 2F 02	3.8	12	fl oz/a	7 EPP	A		
18	AMS		17	lb/100 gal	7 EPP	A		
19	NUP-06044	4.5	10.7	fl oz/a	7 EPP	A	99	99
19	NUP 12K 04	3.8	12	fl oz/a	7 EPP	A		
19	AMS		17	lb/100 gal	7 EPP	A		
20	NUP-06045	4.5	10.7	fl oz/a	7 EPP	A	99	99
20	NUP 2F 02	3.8	12	fl oz/a	7 EPP	A		
20	AMS		17	lb/100 gal	7 EPP	A		
21	NUP-06045	4.5	10.7	fl oz/a	7 EPP	A	99	99
21	NUP 12K 04	3.8	12	fl oz/a	7 EPP	A		
21	AMS		17	lb/100 gal	7 EPP	A		
22	NUP-06053	4.5	10.7	fl oz/a	7 EPP	A	99	99
22	NUP 2F 02	3.8	12	fl oz/a	7 EPP	A		
22	AMS		17	lb/100 gal	7 EPP	A		
23	NUP-06053	4.5	10.7	fl oz/a	7 EPP	A	99	99
23	NUP 12K 04	3.8	12	fl oz/a	7 EPP	A		
23	AMS		17	lb/100 gal	7 EPP	A		
24	NUP 3C 02	3	16	fl oz/a	7 EPP	A	99	99
24	AMS		17	lb/100 gal	7 EPP	A		
25	NUP 3E 04	2.67	30	fl oz/a	7 EPP	A	99	99
25	AMS		17	lb/100 gal	7 EPP	A		
26	Untreated						0	0
LSD (P=.05)							0.1	0.1
Standard Deviation							0.0	0.0
CV							0.05	0.05