

MSU Weed Science Research Program

Planting Interval for Canopy EX in Soybean

Trial ID: NTS04-06 Study Dir.: Sprague, Powell
 Conducted: H-5 Old Soils Farm Investigator: Christy Sprague

Date Planted: 5/25/2006	Row Spacing: 30 IN
Variety: Pioneer 91M91	No. of Reps: 4
Population: 155,000 seed/acre	% OM: 2.2
Soil Type: Sandy Loam	pH: 6.9
Plot Size: 10 X 30 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.) GARCKE
7.	DESPI	TANSYMUSTARD	DESCURAINIA PINNATA (WALT.) BRITT.
8.	ANGR	Annual grass	mainly foxtail, panicum
9.	AMBEL	RAGWEED, COMMON	AMBROSIA ELATIOR L.
Crop	Code	Common Name	
1.	GLXMA	SOYBEAN	

Application Description

	A	B
Application Timing:	7 EPP	POST
Date Treated:	5/4/2006	6/20/2006
Time Treated:	6:45 pm	10:00 am
% Cloud Cover:	20	0
Air Temp., Unit:	63 F	65 F
% Relative Humidity:	36	63
Wind Speed/Unit/Dir:	12 mph W	4 mph N
Soil Temp., Unit:	59 F	66 F
Soil/Leaf Surface M:	5 -	3 5
Soil Moist (1=w 5=d):	5	3

Crop Stage at Each Application

	A	B
Crop Name:	GLXMA	GLXMA
Height (In.):	-	2-4"
Stage (L):	-	1-2 tri

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Weed Stage at Each Application

	A	B
Weed 1 Name:	THLAR	THLAR
Height (In.):	8"-16"	-
Stage (L):	flowering	-
Weed 2 Name:	STEME	STEME
Height (In.):	8-14 dia	-
Stage (L):	flowering	-
Weed 3 Name:	TAROF	TAROF
Height (In.):	4"-8" dia	-
Stage (L):	flowering	-
Weed 4 Name:	CAPBP	CAPBP
Height (In.):	6"-16"	-
Stage (L):	flowering	-
Weed 5 Name:	VERPG	VERPG
Height (In.):	4"-6" dia	-
Stage (L):	many	-
Weed 6 Name:	MELAL	MELAL
Height (In.):	4"-6"	-
Stage (L):	10-18	-
Weed 7 Name:	DESPI	DESPI
Height (In.):	8"-12"	-
Stage (L):	flowering	-
Weed 8 Name:	ANGR	ANGR
Height (In.):	-	1-3"
Stage (L):	-	2-3lf
Weed 9 Name:	AMBEL	AMBEL
Height (In.):	-	1-4"
Stage (L):	-	2-6lf

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:	ANGR	AMBEL	TAROF	SOLPT	THLAR
Density:	2	1	1	<1	2

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	28"	20"	100"	19	water	27
B	Willmar	8.0	TT	11005	24"	20"	60'	18	water	35

Comments: Previous Crop: Soybean. Previous Herbicide: Roundup.

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Weed Code	THLAR	STEME	VERPG	GLXMA	THLAR	STEME	VERPG
Crop Code							
Rating Data Type	control	control	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Rating Date	5/25/2006	5/25/2006	5/25/2006	6/10/2006	6/10/2006	6/10/2006	6/10/2006
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	37 DA-A	37 DA-A	37 DA-A	37 DA-A

Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code	THLAR	STEME	VERPG	GLXMA	THLAR	STEME	VERPG
1	Canopy EX (1.1 oz)						96	97	99	0	99	99	99
1	Classic	25	1	oz/a	7 EPP	A							
1	Express (50%)	50	0.15	oz/a	7 EPP	A							
1	Roundup WeatherMax	4.5	22	fl oz/a	7 EPP	A							
1	2,4-D Ester	4	1	pt/a	7 EPP	A							
1	AMS		17	lb/100 gal	7 EPP	A							
1	Roundup WeatherMax	4.5	22	fl oz/a	POST	B							
1	AMS		17	lb/100 gal	POST	B							
2	Canopy EX (1.65 oz)						96	99	99	0	99	99	99
2	Classic	25	1.5	oz/a	7 EPP	A							
2	Express (50%)	50	0.23	oz/a	7 EPP	A							
2	Roundup WeatherMax	4.5	22	fl oz/a	7 EPP	A							
2	2,4-D Ester	4	1	pt/a	7 EPP	A							
2	AMS		17	lb/100 gal	7 EPP	A							
2	Roundup WeatherMax	4.5	22	fl oz/a	POST	B							
2	AMS		17	lb/100 gal	POST	B							
3	Canopy EX (2.2 oz)						96	98	99	0	99	99	99
3	Classic	25	2	oz/a	7 EPP	A							
3	Express (50%)	50	0.3	oz/a	7 EPP	A							
3	Roundup WeatherMax	4.5	22	fl oz/a	7 EPP	A							
3	2,4-D Ester	4	1	pt/a	7 EPP	A							
3	AMS		17	lb/100 gal	7 EPP	A							
3	Roundup WeatherMax	4.5	22	fl oz/a	POST	B							
3	AMS		17	lb/100 gal	POST	B							
4	Roundup WeatherMax	4.5	22	fl oz/a	7 EPP	A	96	98	99	0	99	99	99
4	2,4-D Ester	4	1	pt/a	7 EPP	A							
4	AMS		17	lb/100 gal	7 EPP	A							
4	Roundup WeatherMax	4.5	22	fl oz/a	POST	B							
4	AMS		17	lb/100 gal	POST	B							
5	Canopy	75	2.25	oz/a	7 EPP	A	92	95	99	0	99	99	99
5	Roundup WeatherMax	4.5	22	fl oz/a	7 EPP	A							
5	2,4-D Ester	4	1	pt/a	7 EPP	A							
5	AMS		17	lb/100 gal	7 EPP	A							
5	Roundup WeatherMax	4.5	22	fl oz/a	POST	B							
5	AMS		17	lb/100 gal	POST	B							
6	Canopy	75	3.5	oz/a	7 EPP	A	96	98	99	0	99	99	99
6	Roundup WeatherMax	4.5	22	fl oz/a	7 EPP	A							
6	2,4-D Ester	4	1	pt/a	7 EPP	A							
6	AMS		17	lb/100 gal	7 EPP	A							
6	Roundup WeatherMax	4.5	22	fl oz/a	POST	B							
6	AMS		17	lb/100 gal	POST	B							
7	Untreated						0	0	0	0	0	0	0
7	Roundup WeatherMax	4.5	22	fl oz/a	POST	B							
7	AMS		17	lb/100 gal	POST	B							
LSD (P=.05)							2.5	1.6	0.0	0.0	0.0	0.0	0.0
Standard Deviation							1.7	1.1	0.0	0.0	0.0	0.0	0.0
CV							2.07	1.27	0.0	0.0	0.0	0.0	0.0

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					ANGR	AMBEL	ABUTH	GLXMA	ANGR	CHEAL	ABUTH		
					control	control	control	injury	control	control	control		
					percent	percent	percent	percent	percent	percent	percent		
					6/10/2006	6/10/2006	6/10/2006	6/20/2006	6/20/2006	6/20/2006	6/20/2006		
Trt-Eval Interval					37 DA-A	37 DA-A	37 DA-A	47 DA-A	47 DA-A	47 DA-A	47 DA-A		
Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code							
1	Canopy EX (1.1 oz)						93	98	99	0	79	99	99
1	Classic	25	1	oz/a	7 EPP	A							
1	Express (50%)	50	0.15	oz/a	7 EPP	A							
1	Roundup WeatherMax	4.5	22	fl oz/a	7 EPP	A							
1	2,4-D Ester	4	1	pt/a	7 EPP	A							
1	AMS		17	lb/100 gal	7 EPP	A							
1	Roundup WeatherMax	4.5	22	fl oz/a	POST	B							
1	AMS		17	lb/100 gal	POST	B							
2	Canopy EX (1.65 oz)						94	99	99	0	81	99	99
2	Classic	25	1.5	oz/a	7 EPP	A							
2	Express (50%)	50	0.23	oz/a	7 EPP	A							
2	Roundup WeatherMax	4.5	22	fl oz/a	7 EPP	A							
2	2,4-D Ester	4	1	pt/a	7 EPP	A							
2	AMS		17	lb/100 gal	7 EPP	A							
2	Roundup WeatherMax	4.5	22	fl oz/a	POST	B							
2	AMS		17	lb/100 gal	POST	B							
3	Canopy EX (2.2 oz)						97	99	99	0	84	99	99
3	Classic	25	2	oz/a	7 EPP	A							
3	Express (50%)	50	0.3	oz/a	7 EPP	A							
3	Roundup WeatherMax	4.5	22	fl oz/a	7 EPP	A							
3	2,4-D Ester	4	1	pt/a	7 EPP	A							
3	AMS		17	lb/100 gal	7 EPP	A							
3	Roundup WeatherMax	4.5	22	fl oz/a	POST	B							
3	AMS		17	lb/100 gal	POST	B							
4	Roundup WeatherMax	4.5	22	fl oz/a	7 EPP	A	0	0	0	0	5	37	20
4	2,4-D Ester	4	1	pt/a	7 EPP	A							
4	AMS		17	lb/100 gal	7 EPP	A							
4	Roundup WeatherMax	4.5	22	fl oz/a	POST	B							
4	AMS		17	lb/100 gal	POST	B							
5	Canopy	75	2.25	oz/a	7 EPP	A	93	99	99	0	77	99	99
5	Roundup WeatherMax	4.5	22	fl oz/a	7 EPP	A							
5	2,4-D Ester	4	1	pt/a	7 EPP	A							
5	AMS		17	lb/100 gal	7 EPP	A							
5	Roundup WeatherMax	4.5	22	fl oz/a	POST	B							
5	AMS		17	lb/100 gal	POST	B							
6	Canopy	75	3.5	oz/a	7 EPP	A	91	99	99	0	81	99	99
6	Roundup WeatherMax	4.5	22	fl oz/a	7 EPP	A							
6	2,4-D Ester	4	1	pt/a	7 EPP	A							
6	AMS		17	lb/100 gal	7 EPP	A							
6	Roundup WeatherMax	4.5	22	fl oz/a	POST	B							
6	AMS		17	lb/100 gal	POST	B							
7	Untreated						0	0	0	0	0	0	0
7	Roundup WeatherMax	4.5	22	fl oz/a	POST	B							
7	AMS		17	lb/100 gal	POST	B							
LSD (P=.05)					5.5	1.1	0.0	0.0	7.4	26.6	0.7		
Standard Deviation					3.7	0.8	0.0	0.0	5.0	17.9	0.5		
CV					5.51	1.08	0.0	0.0	8.57	23.58	0.66		

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Weed Code	SOLPT	AMBEL	GLXMA	ANGR	AMBEL	CHEAL	ABUTH
Crop Code							
Rating Data Type	control	control	injury	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Rating Date	6/20/2006	6/20/2006	7/21/2006	7/21/2006	7/21/2006	7/21/2006	7/21/2006
Trt-Eval Interval	47 DA-A	47 DA-A	78 DA-A	78 DA-A	78 DA-A	78 DA-A	78 DA-A

Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code	SOLPT	AMBEL	GLXMA	ANGR	AMBEL	CHEAL	ABUTH
1	Canopy EX (1.1 oz)						45	93	4	86	90	99	98
1	Classic	25	1	oz/a	7 EPP	A							
1	Express (50%)	50	0.15	oz/a	7 EPP	A							
1	Roundup WeatherMax	4.5	22	fl oz/a	7 EPP	A							
1	2,4-D Ester	4	1	pt/a	7 EPP	A							
1	AMS		17	lb/100 gal	7 EPP	A							
1	Roundup WeatherMax	4.5	22	fl oz/a	POST	B							
1	AMS		17	lb/100 gal	POST	B							
2	Canopy EX (1.65 oz)						54	91	13	80	90	99	95
2	Classic	25	1.5	oz/a	7 EPP	A							
2	Express (50%)	50	0.23	oz/a	7 EPP	A							
2	Roundup WeatherMax	4.5	22	fl oz/a	7 EPP	A							
2	2,4-D Ester	4	1	pt/a	7 EPP	A							
2	AMS		17	lb/100 gal	7 EPP	A							
2	Roundup WeatherMax	4.5	22	fl oz/a	POST	B							
2	AMS		17	lb/100 gal	POST	B							
3	Canopy EX (2.2 oz)						87	98	21	83	92	99	98
3	Classic	25	2	oz/a	7 EPP	A							
3	Express (50%)	50	0.3	oz/a	7 EPP	A							
3	Roundup WeatherMax	4.5	22	fl oz/a	7 EPP	A							
3	2,4-D Ester	4	1	pt/a	7 EPP	A							
3	AMS		17	lb/100 gal	7 EPP	A							
3	Roundup WeatherMax	4.5	22	fl oz/a	POST	B							
3	AMS		17	lb/100 gal	POST	B							
4	Roundup WeatherMax	4.5	22	fl oz/a	7 EPP	A	35	0	6	88	83	96	98
4	2,4-D Ester	4	1	pt/a	7 EPP	A							
4	AMS		17	lb/100 gal	7 EPP	A							
4	Roundup WeatherMax	4.5	22	fl oz/a	POST	B							
4	AMS		17	lb/100 gal	POST	B							
5	Canopy	75	2.25	oz/a	7 EPP	A	63	92	6	84	89	99	99
5	Roundup WeatherMax	4.5	22	fl oz/a	7 EPP	A							
5	2,4-D Ester	4	1	pt/a	7 EPP	A							
5	AMS		17	lb/100 gal	7 EPP	A							
5	Roundup WeatherMax	4.5	22	fl oz/a	POST	B							
5	AMS		17	lb/100 gal	POST	B							
6	Canopy	75	3.5	oz/a	7 EPP	A	68	92	8	83	94	99	98
6	Roundup WeatherMax	4.5	22	fl oz/a	7 EPP	A							
6	2,4-D Ester	4	1	pt/a	7 EPP	A							
6	AMS		17	lb/100 gal	7 EPP	A							
6	Roundup WeatherMax	4.5	22	fl oz/a	POST	B							
6	AMS		17	lb/100 gal	POST	B							
7	Untreated						0	0	0	84	86	99	94
7	Roundup WeatherMax	4.5	22	fl oz/a	POST	B							
7	AMS		17	lb/100 gal	POST	B							
LSD (P=.05)							40.7	8.4	7.4	10.1	11.7	3.9	6.8
Standard Deviation							27.4	5.7	4.9	6.8	7.9	2.6	4.6
CV							54.71	8.51	59.99	8.08	8.83	2.69	4.71

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Weed Code SOLPT
 Crop Code
 Rating Data Type control
 Rating Unit percent
 Rating Date 7/21/2006
 Trt-Eval Interval 78 DA-A

Trt No.	Treatment Name	Form Conc	Rate	Unit	Grow Stg	Appl Code	
1	Canopy EX (1.1 oz)						84
1	Classic	25	1	oz/a	7 EPP	A	
1	Express (50%)	50	0.15	oz/a	7 EPP	A	
1	Roundup WeatherMax	4.5	22	fl oz/a	7 EPP	A	
1	2,4-D Ester	4	1	pt/a	7 EPP	A	
1	AMS		17	lb/100 gal	7 EPP	A	
1	Roundup WeatherMax	4.5	22	fl oz/a	POST	B	
1	AMS		17	lb/100 gal	POST	B	
2	Canopy EX (1.65 oz)						82
2	Classic	25	1.5	oz/a	7 EPP	A	
2	Express (50%)	50	0.23	oz/a	7 EPP	A	
2	Roundup WeatherMax	4.5	22	fl oz/a	7 EPP	A	
2	2,4-D Ester	4	1	pt/a	7 EPP	A	
2	AMS		17	lb/100 gal	7 EPP	A	
2	Roundup WeatherMax	4.5	22	fl oz/a	POST	B	
2	AMS		17	lb/100 gal	POST	B	
3	Canopy EX (2.2 oz)						92
3	Classic	25	2	oz/a	7 EPP	A	
3	Express (50%)	50	0.3	oz/a	7 EPP	A	
3	Roundup WeatherMax	4.5	22	fl oz/a	7 EPP	A	
3	2,4-D Ester	4	1	pt/a	7 EPP	A	
3	AMS		17	lb/100 gal	7 EPP	A	
3	Roundup WeatherMax	4.5	22	fl oz/a	POST	B	
3	AMS		17	lb/100 gal	POST	B	
4	Roundup WeatherMax	4.5	22	fl oz/a	7 EPP	A	93
4	2,4-D Ester	4	1	pt/a	7 EPP	A	
4	AMS		17	lb/100 gal	7 EPP	A	
4	Roundup WeatherMax	4.5	22	fl oz/a	POST	B	
4	AMS		17	lb/100 gal	POST	B	
5	Canopy	75	2.25	oz/a	7 EPP	A	88
5	Roundup WeatherMax	4.5	22	fl oz/a	7 EPP	A	
5	2,4-D Ester	4	1	pt/a	7 EPP	A	
5	AMS		17	lb/100 gal	7 EPP	A	
5	Roundup WeatherMax	4.5	22	fl oz/a	POST	B	
5	AMS		17	lb/100 gal	POST	B	
6	Canopy	75	3.5	oz/a	7 EPP	A	77
6	Roundup WeatherMax	4.5	22	fl oz/a	7 EPP	A	
6	2,4-D Ester	4	1	pt/a	7 EPP	A	
6	AMS		17	lb/100 gal	7 EPP	A	
6	Roundup WeatherMax	4.5	22	fl oz/a	POST	B	
6	AMS		17	lb/100 gal	POST	B	
7	Untreated						92
7	Roundup WeatherMax	4.5	22	fl oz/a	POST	B	
7	AMS		17	lb/100 gal	POST	B	
LSD (P=.05)							18.0
Standard Deviation							12.1
CV							13.96