

Comparison of Commercial Weed Control Programs in Soybean

Trial ID: SOY04-08 Study Dir.: Sprague, Powell
 Conducted: T-10 Botany Investigator: Christy Sprague

Date Planted: 5/8/08 Row Spacing: 30 IN
 Variety: Pioneer 92M33 No. of Reps: 4
 Population: 156,000 seeds/Acre % OM: 2.7
 Soil Type: Sandy loam pH: 7.1
 Plot Size: 10 X 35 FT Desi gn: RANDOMIZED COMPLETE BLOCK

Tillage: Fall chisel plow, soil finish x2 on 5/8/08
 Fertilizer: None at planting

Crop and Weed Description			Scientific Name
Weed	Code	Common Name	
1.	ANGR	mainly foxtail species	SETARIA SP.
2.	AMBEL	RAGWEED, COMMON	AMBROSIA ARTEMISIFOLIA L.
3.	BRAKA	MUSTARD, WILD	BRASSICA KABER
4.	AMASS	REDROOT PIGWEED, POWELL AMARANTH	AMARANTHUS SP.
5.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
6.	ABUTH	VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.
Crop	Code	Common Name	
1.	GLXMA	SOYBEAN	

Application Timing:	Application Description			
	A	B	C	D
Date Treated:	5/8/08	6/12/08	6/18/08	7/14/08
Time Treated:	6:15 PM	12:45 PM	9:30 AM	9:00 AM
% Cloud Cover:	95	90	100	0
Air Temp., Unit:	56 F	82 F	57 F	66 F
% Relative Humidity:	49	59	66	57
Wind Speed/Unit/Dir:	4 mph SE	5 mph S	4 mph NW	4 mph W
Soil Temp., Unit:	62 F	74 F	59 F	68 F
Soil/Leaf Surface M:	5 -	4 5	5 5	5 5
Soil Moist (1=w 5=d):	5	3	5	5

Crop Name:	Crop Stage at Each Application			
	A	B	C	D
Height (In.):	GLXMA	GLXMA	GLXMA	GLXMA
Stage (L):	--	6-8	8-9	20
	--	V2	V3	R1

Weed Name:	Weed Stage at Each Application			
	A	B	C	D
Weed 1 Name:	ANGR	ANGR	ANGR	ANGR
Height (In.):	--	2-5	2-7	2-6
Stage (L):	--	2-3	3-5	2-3
Weed 2 Name:	AMBEL	AMBEL	AMBEL	AMBEL
Height (In.):	--	1-4	1-7	2-4
Stage (L):	--	2-8	4-10	4-6
Weed 3 Name:	BRAKA	BRAKA	BRAKA	BRAKA
Height (In.):	--	6-12	2-10	-
Stage (L):	--	flowering	flowering	-
Weed 4 Name:	AMASS	AMASS	AMASS	AMASS
Height (In.):	--	.5-2	--	2-7
Stage (L):	--	2-6	--	4-10
Weed 5 Name:	CHEAL	CHEAL	CHEAL	CHEAL
Height (In.):	--	1-3	.25-6	-
Stage (L):	--	4-8	2-many	-
Weed 6 Name:	ABUTH	ABUTH	ABUTH	ABUTH
Height (In.):	-	-	-	1-5
Stage (L):	-	-	-	4-5

Date:	Weed Density (plants/sq. ft.)						
	1	2	3	4	5	6	7
7/25/08	7/25/08	7/25/08	7/25/08	7/25/08	7/25/08	7/25/08	7/25/08
Weed Name:	CHEAL	ABUTH	ANGR	AMBEL	AMAPO	SOLPT	BRAKA
Density:	17.75	0.4	141.9	12.125	1.6	0.125	0.625

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Appl	Sprayer Type	Speed MPH	Nozzle Type	Application Equipment						
				Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	GPA	Carrier	PSI
A	Cub	3.8	AirMix	11003	24	20	100	19	water	28
B	Cub	3.8	AirMix	11003	23	20	100	19	water	28
C	Cub	3.8	AirMix	11003	26	20	100	19	water	28
D	Cub	3.8	AirMix	11003	28	20	100	19	water	28

Comments: Previous Crop- Fallow

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Weed Code								ANGR	CHEAL	AMAPO	AMBEL		
Crop Code								GLXMA	GLXMA				
Rating Data Type								injury	injury	control	control		
Rating Unit								percent	percent	percent	percent		
Rating Date								6/18/08	7/16/08	7/16/08	7/16/08		
Trt-Eval Interval								41 DA-A	69 DA-A	69 DA-A	69 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
1	Canopy	75	DF	2.25	oz/a	PRE	A	1	0	76	96	99	73
1	Linex	4	L	1	pt/a	PRE	A						
1	Cinch	7.64	EC	1	pt/a	PRE	A						
2	Gangster V (Valor)	51	WG	2.5	oz/a	PRE	A	23	0	85	98	97	98
2	Gangster FR (FirstRate)	84	WG	0.5	oz/a	PRE	A						
2	Cobra	2	EC	8	fl oz/a	MPOS	B						
2	Select Max	0.97	EC	9	fl oz/a	MPOS	B						
2	Activator 90		L	0.25	% v/v	MPOS	B						
2	AMS		WG	2.5	lb/a	MPOS	B						
3	Valor XLT	40.3	WG	4	oz/a	PRE	A	20	2	92	99	76	99
3	Cobra	2	EC	8	fl oz/a	MPOS	B						
3	Select Max	0.97	EC	9	fl oz/a	MPOS	B						
3	Activator 90		L	0.25	% v/v	MPOS	B						
3	AMS		WG	2.5	lb/a	MPOS	B						
4	Envive (3.5 oz/A)							16	1	97	99	99	99
4	Classic	25	DF	1.28	oz/a	PRE	A						
4	Valor	51	WG	2	oz/a	PRE	A						
4	Harmony SG	50	SG	0.208	oz/a	PRE	A						
4	Flexstar	1.88	L	1	pt/a	MPOS	B						
4	Assure II	0.88	L	8	fl oz/a	MPOS	B						
4	Crop Oil Concentrate		L	1	% v/v	MPOS	B						
5	Untreated							0	0	0	0	0	0
6	Prowl H2O	3.8	L	2	pt/a	PRE	A	9	2	96	99	99	95
6	Extreme	2.17	L	3	pt/a	MPOS	B						
6	Activator 90		L	0.25	% v/v	MPOS	B						
6	AMS		WG	17	lb/100 gal	MPOS	B						
7	Prowl H2O	3.8	L	2	pt/a	PRE	A	4	0	86	98	89	84
7	Roundup PowerMax	4.5	SL	22	fl oz/a	MPOS	B						
7	AMS		WG	17	lb/100 gal	MPOS	B						
8	Sonic	70	DF	3	oz/a	PRE	A	0	0	95	99	99	99
8	Durango DMA	4.17	SL	24	fl oz/a	POST	C						
8	AMS		WG	17	lb/100 gal	POST	C						
9	IntRRo	4	EC	1.5	qt/a	PRE	A	0	0	86	98	96	98
9	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C						
9	AMS		WG	17	lb/100 gal	POST	C						
10	Prefix	5.29	L	2	pt/a	PRE	A	0	0	99	99	99	99
10	Touchdown Total	4.17	SL	24	fl oz/a	POST	C						
10	AMS		WG	17	lb/100 gal	POST	C						
11	Boundary	6.5	EC	1.5	pt/a	PRE	A	0	0	99	99	99	99
11	Touchdown Total	4.17	SL	24	fl oz/a	POST	C						
11	AMS		WG	17	lb/100 gal	POST	C						
12	Sequence	5.25	EW	2.5	pt/a	MPOS	B	4	6	96	99	99	98
12	AMS		WG	17	lb/100 gal	MPOS	B						
12	Touchdown Total	4.17	SL	24	fl oz/a	LPOS	D						
12	AMS		WG	17	lb/100 gal	LPOS	D						

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Weed Code								ANGR	CHEAL	AMAPO	AMBEL		
Crop Code								GLXMA	GLXMA				
Rating Data Type								injury	injury	control	control		
Rating Unit								percent	percent	percent	percent		
Rating Date								6/18/08	7/16/08	7/16/08	7/16/08		
Trt-Eval Interval								41 DA-A	69 DA-A	69 DA-A	69 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
13	Durango DMA	4.17	SL	24	fl oz/a	MPOS	B	6	6	90	99	99	99
13	FirstRate	84	WG	0.3	oz/a	MPOS	B						
13	AMS		WG	17	lb/100 gal	MPOS	B						
13	Durango DMA	4.17	SL	24	fl oz/a	LPOS	D						
13	AMS		WG	17	lb/100 gal	LPOS	D						
14	Touchdown Total	4.17	SL	24	fl oz/a	MPOS	B	0	5	92	99	99	99
14	AMS		WG	17	lb/100 gal	MPOS	B						
14	Touchdown Total	4.17	SL	24	fl oz/a	LPOS	D						
14	AMS		WG	17	lb/100 gal	LPOS	D						
15	Roundup PowerMax	4.5	SL	22	fl oz/a	MPOS	B	0	8	89	99	99	96
15	AMS		WG	17	lb/100 gal	MPOS	B						
15	Roundup PowerMax	4.5	SL	22	fl oz/a	LPOS	D						
15	AMS		WG	17	lb/100 gal	LPOS	D						
16	Roundup WeatherMax	4.5	SL	22	fl oz/a	MPOS	B	1	5	92	99	99	98
16	AMS		WG	17	lb/100 gal	MPOS	B						
16	Roundup WeatherMax	4.5	SL	22	fl oz/a	LPOS	D						
16	AMS		WG	17	lb/100 gal	LPOS	D						
17	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C	0	7	99	99	99	99
17	AMS		WG	17	lb/100 gal	POST	C						
17	Roundup PowerMax	4.5	SL	22	fl oz/a	LPOS	D						
17	AMS		WG	17	lb/100 gal	LPOS	D						
18	Weed-free							0	0	99	99	99	99
18	Roundup WeatherMax	4.5	SL	22	fl oz/a	MPOS	B						
18	AMS		WG	17	lb/100 gal	MPOS	B						
18	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	C						
18	AMS		WG	17	lb/100 gal	POST	C						
18	Roundup WeatherMax	4.5	SL	22	fl oz/a	LPOS	D						
18	AMS		WG	17	lb/100 gal	LPOS	D						
LSD (P=.10)								2.0	1.7	3.9	2.1	12.9	2.4
Standard Deviation								1.7	1.4	3.3	1.8	10.9	2.1
CV								37.08	63.89	3.83	1.91	11.98	2.28

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Weed Code								ABUTH	BRAKA	ANGR	CHEAL	AMBEL	SOLPT
Crop Code													
Rating Data Type								control	control	control	control	control	control
Rating Unit								percent	percent	percent	percent	percent	percent
Rating Date								7/16/08	7/16/08	10/16/08	10/16/08	10/16/08	10/16/08
Trt-Eval Interval								69 DA-A	69 DA-A	161 DA-A	161 DA-A	161 DA-A	161 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
1	Canopy	75	DF	2.25	oz/a	PRE	A	99	99	68.8	99.0	65.0	88.3
1	Linex	4	L	1	pt/a	PRE	A						
1	Cinch	7.64	EC	1	pt/a	PRE	A						
2	Gangster V (Valor)	51	WG	2.5	oz/a	PRE	A	99	99	73.8	98.5	98.5	96.8
2	Gangster FR (FirstRate)	84	WG	0.5	oz/a	PRE	A						
2	Cobra	2	EC	8	fl oz/a	MPOS	B						
2	Select Max	0.97	EC	9	fl oz/a	MPOS	B						
2	Activator 90		L	0.25	% v/v	MPOS	B						
2	AMS		WG	2.5	lb/a	MPOS	B						
3	Valor XLT	40.3	WG	4	oz/a	PRE	A	99	99	88.8	99.0	99.0	88.0
3	Cobra	2	EC	8	fl oz/a	MPOS	B						
3	Select Max	0.97	EC	9	fl oz/a	MPOS	B						
3	Activator 90		L	0.25	% v/v	MPOS	B						
3	AMS		WG	2.5	lb/a	MPOS	B						
4	Envive (3.5 oz/A)							99	99	97.0	99.0	99.0	95.8
4	Classic	25	DF	1.28	oz/a	PRE	A						
4	Valor	51	WG	2	oz/a	PRE	A						
4	Harmony SG	50	SG	0.208	oz/a	PRE	A						
4	Flexstar	1.88	L	1	pt/a	MPOS	B						
4	Assure II	0.88	L	8	fl oz/a	MPOS	B						
4	Crop Oil Concentrate		L	1	% v/v	MPOS	B						
5	Untreated							0	0	0.0	0.0	0.0	0.0
6	Prowl H2O	3.8	L	2	pt/a	PRE	A	99	99	93.8	99.0	96.3	99.0
6	Extreme	2.17	L	3	pt/a	MPOS	B						
6	Activator 90		L	0.25	% v/v	MPOS	B						
6	AMS		WG	17	lb/100 gal	MPOS	B						
7	Prowl H2O	3.8	L	2	pt/a	PRE	A	99	99	76.3	99.0	86.8	63.8
7	Roundup PowerMax	4.5	SL	22	fl oz/a	MPOS	B						
7	AMS		WG	17	lb/100 gal	MPOS	B						
8	Sonic	70	DF	3	oz/a	PRE	A	99	99	90.3	99.0	99.0	98.0
8	Durango DMA	4.17	SL	24	fl oz/a	POST	C						
8	AMS		WG	17	lb/100 gal	POST	C						
9	IntRRo	4	EC	1.5	qt/a	PRE	A	98	99	76.8	99.0	98.5	76.0
9	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C						
9	AMS		WG	17	lb/100 gal	POST	C						
10	Prefix	5.29	L	2	pt/a	PRE	A	99	99	99.0	99.0	98.5	99.0
10	Touchdown Total	4.17	SL	24	fl oz/a	POST	C						
10	AMS		WG	17	lb/100 gal	POST	C						
11	Boundary	6.5	EC	1.5	pt/a	PRE	A	99	99	97.8	95.8	98.8	91.0
11	Touchdown Total	4.17	SL	24	fl oz/a	POST	C						
11	AMS		WG	17	lb/100 gal	POST	C						
12	Sequence	5.25	EW	2.5	pt/a	MPOS	B	98	99	99.0	99.0	99.0	99.0
12	AMS		WG	17	lb/100 gal	MPOS	B						
12	Touchdown Total	4.17	SL	24	fl oz/a	LPOS	D						
12	AMS		WG	17	lb/100 gal	LPOS	D						

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Weed Code	ABUTH	BRAKA	ANGR	CHEAL	AMBEL	SOLPT
Crop Code						
Rating Data Type	control	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Rating Date	7/16/08	7/16/08	10/16/08	10/16/08	10/16/08	10/16/08
Trt-Eval Interval	69 DA-A	69 DA-A	161 DA-A	161 DA-A	161 DA-A	161 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	ABUTH	BRAKA	ANGR	CHEAL	AMBEL	SOLPT
13	Durango DMA	4.17	SL	24	fl oz/a	MPOS	B	99	99	99.0	99.0	99.0	99.0
13	FirstRate	84	WG	0.3	oz/a	MPOS	B						
13	AMS		WG	17	lb/100 gal	MPOS	B						
13	Durango DMA	4.17	SL	24	fl oz/a	LPOS	D						
13	AMS		WG	17	lb/100 gal	LPOS	D						
14	Touchdown Total	4.17	SL	24	fl oz/a	MPOS	B	99	99	99.0	99.0	99.0	99.0
14	AMS		WG	17	lb/100 gal	MPOS	B						
14	Touchdown Total	4.17	SL	24	fl oz/a	LPOS	D						
14	AMS		WG	17	lb/100 gal	LPOS	D						
15	Roundup PowerMax	4.5	SL	22	fl oz/a	MPOS	B	99	99	99.0	99.0	99.0	99.0
15	AMS		WG	17	lb/100 gal	MPOS	B						
15	Roundup PowerMax	4.5	SL	22	fl oz/a	LPOS	D						
15	AMS		WG	17	lb/100 gal	LPOS	D						
16	Roundup WeatherMax	4.5	SL	22	fl oz/a	MPOS	B	99	99	99.0	99.0	99.0	99.0
16	AMS		WG	17	lb/100 gal	MPOS	B						
16	Roundup WeatherMax	4.5	SL	22	fl oz/a	LPOS	D						
16	AMS		WG	17	lb/100 gal	LPOS	D						
17	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C	99	99	98.0	99.0	99.0	99.0
17	AMS		WG	17	lb/100 gal	POST	C						
17	Roundup PowerMax	4.5	SL	22	fl oz/a	LPOS	D						
17	AMS		WG	17	lb/100 gal	LPOS	D						
18	Weed-free							99	99	99.0	99.0	99.0	99.0
18	Roundup WeatherMax	4.5	SL	22	fl oz/a	MPOS	B						
18	AMS		WG	17	lb/100 gal	MPOS	B						
18	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	C						
18	AMS		WG	17	lb/100 gal	POST	C						
18	Roundup WeatherMax	4.5	SL	22	fl oz/a	LPOS	D						
18	AMS		WG	17	lb/100 gal	LPOS	D						
LSD (P=.10)								0.5	0.0	5.08	1.23	4.24	8.53
Standard Deviation								0.4	0.0	4.30	1.04	3.59	7.22
CV								0.44	0.0	4.98	1.12	3.96	8.18

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Weed Code			
Crop Code		GLXMA	GLXMA
Rating Data Type		moisture	yield
Rating Unit		percent	bu/acre
Rating Date		10/22/08	10/22/08
Trt-Eval Interval		167 DA-A	at 13% M

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code		
1	Canopy	75	DF	2.25	oz/a	PRE	A	14.6	32.1
1	Linex	4	L	1	pt/a	PRE	A		
1	Cinch	7.64	EC	1	pt/a	PRE	A		
2	Gangster V (Valor)	51	WG	2.5	oz/a	PRE	A	14.0	37.7
2	Gangster FR (FirstRate)	84	WG	0.5	oz/a	PRE	A		
2	Cobra	2	EC	8	fl oz/a	MPOS	B		
2	Select Max	0.97	EC	9	fl oz/a	MPOS	B		
2	Activator 90		L	0.25	% v/v	MPOS	B		
2	AMS		WG	2.5	lb/a	MPOS	B		
3	Valor XLT	40.3	WG	4	oz/a	PRE	A	13.9	40.7
3	Cobra	2	EC	8	fl oz/a	MPOS	B		
3	Select Max	0.97	EC	9	fl oz/a	MPOS	B		
3	Activator 90		L	0.25	% v/v	MPOS	B		
3	AMS		WG	2.5	lb/a	MPOS	B		
4	Envive (3.5 oz/A)							13.8	39.4
4	Classic	25	DF	1.28	oz/a	PRE	A		
4	Valor	51	WG	2	oz/a	PRE	A		
4	Harmony SG	50	SG	0.208	oz/a	PRE	A		
4	Flexstar	1.88	L	1	pt/a	MPOS	B		
4	Assure II	0.88	L	8	fl oz/a	MPOS	B		
4	Crop Oil Concentrate		L	1	% v/v	MPOS	B		
5	Untreated							15.6	10.7
6	Prowl H2O	3.8	L	2	pt/a	PRE	A	13.7	44.4
6	Extreme	2.17	L	3	pt/a	MPOS	B		
6	Activator 90		L	0.25	% v/v	MPOS	B		
6	AMS		WG	17	lb/100 gal	MPOS	B		
7	Prowl H2O	3.8	L	2	pt/a	PRE	A	13.7	47.2
7	Roundup PowerMax	4.5	SL	22	fl oz/a	MPOS	B		
7	AMS		WG	17	lb/100 gal	MPOS	B		
8	Sonic	70	DF	3	oz/a	PRE	A	14.1	40.4
8	Durango DMA	4.17	SL	24	fl oz/a	POST	C		
8	AMS		WG	17	lb/100 gal	POST	C		
9	IntRRo	4	EC	1.5	qt/a	PRE	A	13.6	45.6
9	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C		
9	AMS		WG	17	lb/100 gal	POST	C		
10	Prefix	5.29	L	2	pt/a	PRE	A	14.0	43.4
10	Touchdown Total	4.17	SL	24	fl oz/a	POST	C		
10	AMS		WG	17	lb/100 gal	POST	C		
11	Boundary	6.5	EC	1.5	pt/a	PRE	A	14.0	37.6
11	Touchdown Total	4.17	SL	24	fl oz/a	POST	C		
11	AMS		WG	17	lb/100 gal	POST	C		
12	Sequence	5.25	EW	2.5	pt/a	MPOS	B	13.5	46.7
12	AMS		WG	17	lb/100 gal	MPOS	B		
12	Touchdown Total	4.17	SL	24	fl oz/a	LPOS	D		
12	AMS		WG	17	lb/100 gal	LPOS	D		

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Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

GLXMA GLXMA
 moisture yield
 percent bu/acre
 10/22/08 10/22/08
 167 DA-A at 13% M

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code		
13	Durango DMA	4.17	SL	24	fl oz/a	MPOS	B	13.4	45.6
13	FirstRate	84	WG	0.3	oz/a	MPOS	B		
13	AMS		WG	17	lb/100 gal	MPOS	B		
13	Durango DMA	4.17	SL	24	fl oz/a	LPOS	D		
13	AMS		WG	17	lb/100 gal	LPOS	D		
14	Touchdown Total	4.17	SL	24	fl oz/a	MPOS	B	13.8	41.1
14	AMS		WG	17	lb/100 gal	MPOS	B		
14	Touchdown Total	4.17	SL	24	fl oz/a	LPOS	D		
14	AMS		WG	17	lb/100 gal	LPOS	D		
15	Roundup PowerMax	4.5	SL	22	fl oz/a	MPOS	B	13.5	46.1
15	AMS		WG	17	lb/100 gal	MPOS	B		
15	Roundup PowerMax	4.5	SL	22	fl oz/a	LPOS	D		
15	AMS		WG	17	lb/100 gal	LPOS	D		
16	Roundup WeatherMax	4.5	SL	22	fl oz/a	MPOS	B	13.7	44.8
16	AMS		WG	17	lb/100 gal	MPOS	B		
16	Roundup WeatherMax	4.5	SL	22	fl oz/a	LPOS	D		
16	AMS		WG	17	lb/100 gal	LPOS	D		
17	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C	13.5	41.3
17	AMS		WG	17	lb/100 gal	POST	C		
17	Roundup PowerMax	4.5	SL	22	fl oz/a	LPOS	D		
17	AMS		WG	17	lb/100 gal	LPOS	D		
18	Weed-free							13.5	42.8
18	Roundup WeatherMax	4.5	SL	22	fl oz/a	MPOS	B		
18	AMS		WG	17	lb/100 gal	MPOS	B		
18	Roundup WeatherMax	4.5	SL	22	fl oz/a	POST	C		
18	AMS		WG	17	lb/100 gal	POST	C		
18	Roundup WeatherMax	4.5	SL	22	fl oz/a	LPOS	D		
18	AMS		WG	17	lb/100 gal	LPOS	D		
LSD (P=.10)								0.54	7.00
Standard Deviation								0.46	5.88
CV								3.28	14.54