

Weed Control Programs in Non-GMO Soybean

Trial ID: Soy 10-09 Study Dir.: Sprague, Powell
Conducted: C-28 South Investigator: Christy Sprague

Date Planted: 6/2/09 Row Spacing: 30 IN
Variety: Pioneer 92M61 No. of Reps: 4
Population: 157,000 % OM: 3.2
Soil Type: Silty Clay Loam pH: 6.9
Plot Size: 10 X 35 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Spring soil finished twice
Fertilizer: None

Crop and Weed Description

Table with 4 columns: Weed Code, Common Name, Scientific Name, and Crop Code. Lists weeds 1-5 and crop 1 (GLXMA).

Application Description

Table with 3 columns: Application Timing, A, B. Lists parameters like Date Treated, Time Treated, % Cloud Cover, etc.

Crop Stage at Each Application

Table with 3 columns: Crop Name, A, B. Lists Crop Name (GLXMA), Height (In.), and Stage (L).

Weed Stage at Each Application

Table with 3 columns: Weed Name, A, B. Lists Weed 1-5 names, Height (In.), and Stage (L).

Weed Density (plants/sq. ft.)

Table with 6 columns: Weed Name, 1, 2, 3, 4, 5. Lists Weed Name and Density for ANGR, CHEAL, AMAPO, AMBEL, ABUTH.

Application Equipment

Table with 11 columns: Appl, Sprayer Type, Speed MPH, Nozzle Type, Nozzle Size, Nozzle Height, Nozzle Spacing, Boom Width, GPA, Carrier, PSI. Lists equipment for A and B.

Comments: Reps 1 and 2 only have PRE treatments, Reps 3 and 4 have the followup POST applications.

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Weed Code								ANGR	AMBEL	ABUTH	ANGR	AMBEL	ABUTH	reps 1&2		
Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	GLXMA injury percent 7/14/09 42 DA-A	control percent 7/14/09 42 DA-A	control percent 7/14/09 42 DA-A	control percent 7/14/09 42 DA-A	GLXMA injury percent 7/27/09 55 DA-A	control percent 7/27/09 55 DA-A	control percent 7/27/09 55 DA-A	control percent 7/27/09 55 DA-A	injury percent 8/4/09 15 DA-B			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code									
1	Authority MTZ	45	DF	10	oz/a	PRE	A	5	96	99	94	5	93	98	90	0
1	Valor XLT	40.3	DG	3	oz/a	PRE	A									
2	Canopy	75	DF	4	oz/a	PRE	A	10	99	95	86	6	99	99	91	3
2	IntRRo	4	EC	2	qt/a	PRE	A									
2	Resource	0.86	L	4	fl oz/a	POST	B									
2	Herbimax (COC)		L	1	qt/a	POST	B									
3	Valor XLT	40.3	DG	4	oz/a	PRE	A	4	61	95	99	3	83	95	99	0
3	Sencor	75	DF	4	oz/a	PRE	A									
3	Select Max	0.97	EC	9	fl oz/a	POST	B									
3	Herbimax (COC)		L	1	% v/v	POST	B									
4	Boundary	6.5	EC	2.4	pt/a	PRE	A	0	99	99	84	5	99	96	91	0
4	Cadet	0.91	EC	0.6	fl oz/a	POST	B									
4	Herbimax (COC)		L	1	qt/a	POST	B									
5	Canopy	75	DF	2.25	oz/a	PRE	A	3	99	88	77	13	98	91	83	4
5	Linex	4	L	1	pt/a	PRE	A									
5	Dual II Magnum	7.64	L	1.33	pt/a	PRE	A									
5	Cobra	2	EC	6	fl oz/a	POST	B									
5	Resource	0.86	L	4	fl oz/a	POST	B									
5	Herbimax (COC)		L	1	% v/v	POST	B									
6	Envive (3.5oz)	41.3	DG			PRE	A	4	96	99	98	5	95	97	97	8
6	Classic	25	DF	1.28	oz/a	PRE	A									
6	Harmony SG	50	DF	0.208	oz/a	PRE	A									
6	Valor SX	51	WG	2	oz/a	PRE	A									
6	Prowl H2O	3.8	L	2	pt/a	PRE	A									
7	Prefix	5.29	L	2	pt/a	PRE	A	3	99	99	78	5	99	99	97	0
7	Authority MTZ	45	DF	10	oz/a	PRE	A									
7	Resource	0.86	L	4	fl oz/a	POST	B									
7	Herbimax (COC)		L	1	qt/a	POST	B									
8	Valor SX	51	WG	2.5	oz/a	PRE	A	5	99	98	99	1	99	97	97	5
8	Pursuit Plus	2.9	L	2.5	pt/a	PRE	A									
9	Python	80	DG	0.8	oz/a	PRE	A	1	92	97	98	5	93	92	96	0
9	Sencor	75	DF	8	oz/a	PRE	A									
9	Assure II	0.88	L	7	fl oz/a	POST	B									
9	Herbimax (COC)		L	1	% v/v	POST	B									
LSD (P=.05)								6.3	16.5	8.4	13.4	9.6	11.0	10.0	15.1	8.5
Standard Deviation								4.4	11.3	5.8	9.2	6.5	7.5	6.8	10.3	3.7
CV								116.0	12.1	5.99	10.16	124.08	7.89	7.12	11.09	179.57

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Weed Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH	reps 3&4	ANGR	CHEAL	AMAPO
Crop Code	reps 1&2	reps 1&2	reps 1&2	reps 1&2	reps 1&2	GLXMA	reps 3&4	reps 3&4	reps 3&4
Rating Data Type	control	control	control	control	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent	percent	percent
Rating Date	8/4/09	8/4/09	8/4/09	8/4/09	8/4/09	8/4/09	8/4/09	8/4/09	8/4/09
Trt-Eval Interval	15 DA-B	15 DA-B	15 DA-B	15 DA-B	15 DA-B	15 DA-B	15 DA-B	15 DA-B	15 DA-B

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH	reps 3&4	ANGR	CHEAL	AMAPO
1	Authority MTZ	45	DF	10	oz/a	PRE	A	97	99	99	99	90	0	91	99	99
1	Valor XLT	40.3	DG	3	oz/a	PRE	A									
2	Canopy	75	DF	4	oz/a	PRE	A	93	99	99	90	93	14	99	99	99
2	IntRRo	4	EC	2	qt/a	PRE	A									
2	Resource	0.86	L	4	fl oz/a	POST	B									
2	Herbimax (COC)		L	1	qt/a	POST	B									
3	Valor XLT	40.3	DG	4	oz/a	PRE	A	68	99	99	90	99	4	99	99	99
3	Sencor	75	DF	4	oz/a	PRE	A									
3	Select Max	0.97	EC	9	fl oz/a	POST	B									
3	Herbimax (COC)		L	1	% v/v	POST	B									
4	Boundary	6.5	EC	2.4	pt/a	PRE	A	99	97	99	93	87	6	99	99	99
4	Cadet	0.91	EC	0.6	fl oz/a	POST	B									
4	Herbimax (COC)		L	1	qt/a	POST	B									
5	Canopy	75	DF	2.25	oz/a	PRE	A	98	99	99	89	87	15	99	99	99
5	Linex	4	L	1	pt/a	PRE	A									
5	Dual II Magnum	7.64	L	1.33	pt/a	PRE	A									
5	Cobra	2	EC	6	fl oz/a	POST	B									
5	Resource	0.86	L	4	fl oz/a	POST	B									
5	Herbimax (COC)		L	1	% v/v	POST	B									
6	Envive (3.5oz)	41.3	DG			PRE	A	99	99	99	99	99	0	98	99	99
6	Classic	25	DF	1.28	oz/a	PRE	A									
6	Harmony SG	50	DF	0.208	oz/a	PRE	A									
6	Valor SX	51	WG	2	oz/a	PRE	A									
6	Prowl H2O	3.8	L	2	pt/a	PRE	A									
7	Prefix	5.29	L	2	pt/a	PRE	A	99	99	99	99	80	9	99	99	99
7	Authority MTZ	45	DF	10	oz/a	PRE	A									
7	Resource	0.86	L	4	fl oz/a	POST	B									
7	Herbimax (COC)		L	1	qt/a	POST	B									
8	Valor SX	51	WG	2.5	oz/a	PRE	A	99	99	99	99	99	0	99	99	99
8	Pursuit Plus	2.9	L	2.5	pt/a	PRE	A									
9	Python	80	DG	0.8	oz/a	PRE	A	83	99	99	92	99	7	99	99	99
9	Sencor	75	DF	8	oz/a	PRE	A									
9	Assure II	0.88	L	7	fl oz/a	POST	B									
9	Herbimax (COC)		L	1	% v/v	POST	B									

LSD (P=.05)	7.7	2.2	0.0	22.2	20.3	10.3	8.6	0.5	0.0
Standard Deviation	3.3	0.9	0.0	9.6	8.8	4.5	3.7	0.2	0.0
CV	3.6	0.95	0.0	10.19	9.51	75.47	3.82	0.24	0.0

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Weed Code	AMBEL	ABUTH	PRE only	PRE only	PRE+POST	PRE+POST
Crop Code	reps 3&4	reps 3&4	GLXMA	GLXMA	GLXMA	GLXMA
Rating Data Type	control	control	moisture	yield	moisture	yield
Rating Unit	percent	percent	percent	bu/acre	percent	bu/acre
Rating Date	8/4/09	8/4/09	11/1/09	11/1/09	11/1/09	11/1/09
Trt-Eval Interval	15 DA-B	15 DA-B	152 DA-A	at 13% M	152 DA-A	at 13% M

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
1	Authority MTZ	45	DF	10	oz/a	PRE	A	95	96	16.7	63.6		
1	Valor XLT	40.3	DG	3	oz/a	PRE	A						
2	Canopy	75	DF	4	oz/a	PRE	A	99	99	16.8	63.4	16.2	60.3
2	IntrRo	4	EC	2	qt/a	PRE	A						
2	Resource	0.86	L	4	fl oz/a	POST	B						
2	Herbimax (COC)		L	1	qt/a	POST	B						
3	Valor XLT	40.3	DG	4	oz/a	PRE	A	96	99	17.4	47.7	16.2	66.7
3	Sencor	75	DF	4	oz/a	PRE	A						
3	Select Max	0.97	EC	9	fl oz/a	POST	B						
3	Herbimax (COC)		L	1	% v/v	POST	B						
4	Boundary	6.5	EC	2.4	pt/a	PRE	A	99	99	16.9	54.9	17.3	66.0
4	Cadet	0.91	EC	0.6	fl oz/a	POST	B						
4	Herbimax (COC)		L	1	qt/a	POST	B						
5	Canopy	75	DF	2.25	oz/a	PRE	A	98	99	17.8	52.9	16.2	59.4
5	Linex	4	L	1	pt/a	PRE	A						
5	Dual II Magnum	7.64	L	1.33	pt/a	PRE	A						
5	Cobra	2	EC	6	fl oz/a	POST	B						
5	Resource	0.86	L	4	fl oz/a	POST	B						
5	Herbimax (COC)		L	1	% v/v	POST	B						
6	Envive (3.5oz)	41.3	DG			PRE	A	95	99	16.5	62.2		
6	Classic	25	DF	1.28	oz/a	PRE	A						
6	Harmony SG	50	DF	0.208	oz/a	PRE	A						
6	Valor SX	51	WG	2	oz/a	PRE	A						
6	Prowl H2O	3.8	L	2	pt/a	PRE	A						
7	Prefix	5.29	L	2	pt/a	PRE	A	99	98	16.0	55.4	16.2	64.7
7	Authority MTZ	45	DF	10	oz/a	PRE	A						
7	Resource	0.86	L	4	fl oz/a	POST	B						
7	Herbimax (COC)		L	1	qt/a	POST	B						
8	Valor SX	51	WG	2.5	oz/a	PRE	A	97	99	12.1	68.1		
8	Pursuit Plus	2.9	L	2.5	pt/a	PRE	A						
9	Python	80	DG	0.8	oz/a	PRE	A	97	98	15.5	62.9	16.3	63.8
9	Sencor	75	DF	8	oz/a	PRE	A						
9	Assure II	0.88	L	7	fl oz/a	POST	B						
9	Herbimax (COC)		L	1	% v/v	POST	B						
LSD (P=.05)								6.9	3.6	5.97	9.65	1.32	11.31
Standard Deviation								3.0	1.6	3.88	6.27	0.51	4.40
CV								3.08	1.61	23.95	10.62	3.13	6.93