

Comparison of different Production Systems in Roundup Ready soybean

Trial ID: SOY11-09
Conducted: B-10 Quonset

Study Dir.: Hasenick, Sprague, Powell
Investigator: Christy Sprague

Date Planted: 5/19/09
Variety: See comments
Population: 175,000
Soil Type: Sandy Loam
Plot Size: 10 X 30 FT
Row Spacing: 15 IN
No. of Reps: 4
% OM: 3.3
pH: 7.1
Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall disked, spring soil finished twice
Fertilizer: None

Crop and Weed Description

Table with 4 columns: Weed Code, Common Name, Scientific Name, and Crop Code/Common Name. Lists weeds 1-4 and crop 1.

Application Description

Table with 6 columns (A-E) and 11 rows of application data including timing, date, time, cloud cover, air temp, humidity, wind speed, soil temp, and soil moisture.

Crop Stage at Each Application

Table with 6 columns (A-E) showing crop name (GLXMA) and height/stage at each application.

Weed Stage at Each Application

Table with 6 columns (A-E) showing weed names (AMAPO, CHEAL, ANGR, AMBEL) and their height/stage at each application.

Weed Density (plants/sq. ft.)

Table with 6 columns (1-5) showing weed names (ANGR, CHEAL, AMAPO, AMBEL, ABUTH) and their densities.

Application Equipment

Table with 12 columns (Appl, Sprayer, Speed, Nozzle, Nozzle, Nozzle, Nozzle, Boom, GPA, Carrier, PSI) listing equipment for applications A-E.

Comments: Varieties: Dekalb 27-52, Asgrow 2902, Asgrow 3006

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Weed Code	GLXMA	GLXMA	ANGR	CHEAL	AMAPO	AMBEL	ABUTH	GLXMA
Crop Code	injury	injury	control	control	control	control	control	injury
Rating Data Type	percent	percent	percent	percent	percent	percent	percent	percent
Rating Unit	6/25/09	7/24/09	7/24/09	7/24/09	7/24/09	7/24/09	7/24/09	8/20/09
Rating Date	37 DA-A	29 DA-C	29 DA-C	29 DA-C	29 DA-C	29 DA-C	29 DA-C	56 DA-C
Tri-Eval Interval								

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	GLXMA injury percent	GLXMA injury percent	ANGR control percent	CHEAL control percent	AMAPO control percent	AMBEL control percent	ABUTH control percent	GLXMA injury percent
12	AG 2902 - CruiserMax Pak							10	0	99	89	99	99	99	0
12	IntRRo	4	L	2	qt/a	PRE	A								
12	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C								
12	AMS		WG	17	lb/100 gal	POST	C								
12	Mustang Max	0.8	L	2.8	fl oz/a	R3	E								
12	Headline	2.09	L	6	fl oz/a	R3	E								
13	AG 3006 - untreated seed							7	0	99	92	99	99	99	0
13	IntRRo	4	L	2	qt/a	PRE	A								
13	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C								
13	AMS		WG	17	lb/100 gal	POST	C								
14	AG 3006 - untreated seed							5	0	99	99	99	99	99	0
14	Roundup PowerMax	4.5	SL	22	fl oz/a	MPOS	B								
14	AMS		WG	17	lb/100 gal	MPOS	B								
14	Roundup PowerMax	4.5	SL	22	fl oz/a	LPOS	D								
14	AMS		WG	17	lb/100 gal	LPOS	D								
15	AG 3006 - CruiserMax Pak							6	0	99	89	99	99	99	0
15	IntRRo	4	L	2	qt/a	PRE	A								
15	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C								
15	AMS		WG	17	lb/100 gal	POST	C								
16	AG 3006 - CruiserMax Pak							4	0	99	86	99	99	99	0
16	IntRRo	4	L	2	qt/a	PRE	A								
16	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C								
16	AMS		WG	17	lb/100 gal	POST	C								
16	Mustang Max	0.8	L	2.8	fl oz/a	R3	E								
17	AG 3006 - CruiserMax Pak							6	0	99	86	99	99	99	0
17	IntRRo	4	L	2	qt/a	PRE	A								
17	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C								
17	AMS		WG	17	lb/100 gal	POST	C								
17	Headline	2.09	L	6	fl oz/a	R3	E								
18	AG 3006 - CruiserMax Pak							5	0	99	89	99	99	99	0
18	IntRRo	4	L	2	qt/a	PRE	A								
18	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C								
18	AMS		WG	17	lb/100 gal	POST	C								
18	Mustang Max	0.8	L	2.8	fl oz/a	R3	E								
18	Headline	2.09	L	6	fl oz/a	R3	E								
LSD (P=.05)								5.4	0.0	0.5	9.0	0.3	0.8	0.3	0.0
Standard Deviation								3.8	0.0	0.3	6.4	0.2	0.5	0.2	0.0
CV								74.13	0.0	0.34	7.04	0.24	0.54	0.24	0.0

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Weed Code				ANGR	CHEAL	AMAPO	AMBEL	ABUTH	GLXMA		CHEAL	GLXMA			
Crop Code				control	control	control	control	control	white mold	control	GLXMA	moisture			
Rating Data Type				percent	percent	percent	percent	percent	percent	percent	percent	percent			
Rating Unit				8/20/09	8/20/09	8/20/09	8/20/09	8/20/09	9/28/09	9/28/09	10/19/09				
Rating Date				56 DA-C	56 DA-C	56 DA-C	56 DA-C	56 DA-C	95 DA-C	95 DA-C	153 DA-A				
Tri-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code								
12	AG 2902 - CruiserMax Pak							99	91	99	99	99			
12	IntRRo	4	L	2	qt/a	PRE	A				8	87			
12	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C					11.9			
12	AMS		WG	17	lb/100 gal	POST	C								
12	Mustang Max	0.8	L	2.8	fl oz/a	R3	E								
12	Headline	2.09	L	6	fl oz/a	R3	E								
13	AG 3006 - untreated seed							99	96	99	99	99			
13	IntRRo	4	L	2	qt/a	PRE	A				6	96			
13	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C					13.3			
13	AMS		WG	17	lb/100 gal	POST	C								
14	AG 3006 - untreated seed							99	99	99	99	99			
14	Roundup PowerMax	4.5	SL	22	fl oz/a	MPOS	B				9	99			
14	AMS		WG	17	lb/100 gal	MPOS	B					13.2			
14	Roundup PowerMax	4.5	SL	22	fl oz/a	LPOS	D								
14	AMS		WG	17	lb/100 gal	LPOS	D								
15	AG 3006 - CruiserMax Pak							99	95	99	99	99			
15	IntRRo	4	L	2	qt/a	PRE	A				11	86			
15	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C					12.8			
15	AMS		WG	17	lb/100 gal	POST	C								
16	AG 3006 - CruiserMax Pak							99	93	99	99	99			
16	IntRRo	4	L	2	qt/a	PRE	A				18	91			
16	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C					12.6			
16	AMS		WG	17	lb/100 gal	POST	C								
16	Mustang Max	0.8	L	2.8	fl oz/a	R3	E								
17	AG 3006 - CruiserMax Pak							99	90	99	99	99			
17	IntRRo	4	L	2	qt/a	PRE	A				13	88			
17	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C					12.7			
17	AMS		WG	17	lb/100 gal	POST	C								
17	Headline	2.09	L	6	fl oz/a	R3	E								
18	AG 3006 - CruiserMax Pak							99	93	99	99	99			
18	IntRRo	4	L	2	qt/a	PRE	A				16	87			
18	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C					12.8			
18	AMS		WG	17	lb/100 gal	POST	C								
18	Mustang Max	0.8	L	2.8	fl oz/a	R3	E								
18	Headline	2.09	L	6	fl oz/a	R3	E								
LSD (P=.05)								1.1	8.2	0.0	0.0	0.0	8.9	12.0	1.05
Standard Deviation								0.8	5.8	0.0	0.0	0.0	6.3	8.5	0.74
CV								0.79	6.23	0.0	0.0	0.0	105.32	9.37	6.11

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Weed Code
 Crop Code
 Rating Data Type: GLXMA
 Rating Unit: yield
 Rating Date: bu/acre
 Trt-Eval Interval: 10/19/09
 at 13% M

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	
1	DKB27-52 - untreated seed							84.7
1	IntRRo	4	L	2	qt/a	PRE	A	
1	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C	
1	AMS		WG	17	lb/100 gal	POST	C	
2	DKB27-52 - untreated seed							86.9
2	Roundup PowerMax	4.5	SL	22	fl oz/a	MPOS	B	
2	AMS		WG	17	lb/100 gal	MPOS	B	
2	Roundup PowerMax	4.5	SL	22	fl oz/a	LPOS	D	
2	AMS		WG	17	lb/100 gal	LPOS	D	
3	DKB27-52 - CruiserMax Pak							83.8
3	IntRRo	4	L	2	qt/a	PRE	A	
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C	
3	AMS		WG	17	lb/100 gal	POST	C	
4	DKB27-52 - CruiserMax Pak							88.1
4	IntRRo	4	L	2	qt/a	PRE	A	
4	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C	
4	AMS		WG	17	lb/100 gal	POST	C	
4	Mustang Max	0.8	L	2.8	fl oz/a	R3	E	
5	DKB27-52 - CruiserMax Pak							92.0
5	IntRRo	4	L	2	qt/a	PRE	A	
5	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C	
5	AMS		WG	17	lb/100 gal	POST	C	
5	Headline	2.09	L	6	fl oz/a	R3	E	
6	DKB27-52 - CruiserMax Pak							88.5
6	IntRRo	4	L	2	qt/a	PRE	A	
6	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C	
6	AMS		WG	17	lb/100 gal	POST	C	
6	Mustang Max	0.8	L	2.8	fl oz/a	R3	E	
6	Headline	2.09	L	6	fl oz/a	R3	E	
7	AG 2902 - untreated seed							76.8
7	IntRRo	4	L	2	qt/a	PRE	A	
7	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C	
7	AMS		WG	17	lb/100 gal	POST	C	
8	AG 2902 - untreated seed							81.1
8	Roundup PowerMax	4.5	SL	22	fl oz/a	MPOS	B	
8	AMS		WG	17	lb/100 gal	MPOS	B	
8	Roundup PowerMax	4.5	SL	22	fl oz/a	LPOS	D	
8	AMS		WG	17	lb/100 gal	LPOS	D	
9	AG 2902 - CruiserMax Pak							75.2
9	IntRRo	4	L	2	qt/a	PRE	A	
9	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C	
9	AMS		WG	17	lb/100 gal	POST	C	
10	AG 2902 - CruiserMax Pak							80.1
10	IntRRo	4	L	2	qt/a	PRE	A	
10	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C	
10	AMS		WG	17	lb/100 gal	POST	C	
10	Mustang Max	0.8	L	2.8	fl oz/a	R3	E	
11	AG 2902 - CruiserMax Pak							82.0
11	IntRRo	4	L	2	qt/a	PRE	A	
11	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C	
11	AMS		WG	17	lb/100 gal	POST	C	
11	Headline	2.09	L	6	fl oz/a	R3	E	

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 Rating Data Type
 Rating Unit
 Rating Date
 Trt-Eval Interval

GLXMA
 yield
 bu/acre
 10/19/09
 at 13% M

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	
12	AG 2902 - CruiserMax Pak							80.4
12	IntRRo	4	L	2	qt/a	PRE	A	
12	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C	
12	AMS		WG	17	lb/100 gal	POST	C	
12	Mustang Max	0.8	L	2.8	fl oz/a	R3	E	
12	Headline	2.09	L	6	fl oz/a	R3	E	
13	AG 3006 - untreated seed							76.4
13	IntRRo	4	L	2	qt/a	PRE	A	
13	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C	
13	AMS		WG	17	lb/100 gal	POST	C	
14	AG 3006 - untreated seed							83.0
14	Roundup PowerMax	4.5	SL	22	fl oz/a	MPOS	B	
14	AMS		WG	17	lb/100 gal	MPOS	B	
14	Roundup PowerMax	4.5	SL	22	fl oz/a	LPOS	D	
14	AMS		WG	17	lb/100 gal	LPOS	D	
15	AG 3006 - CruiserMax Pak							81.6
15	IntRRo	4	L	2	qt/a	PRE	A	
15	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C	
15	AMS		WG	17	lb/100 gal	POST	C	
16	AG 3006 - CruiserMax Pak							77.7
16	IntRRo	4	L	2	qt/a	PRE	A	
16	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C	
16	AMS		WG	17	lb/100 gal	POST	C	
16	Mustang Max	0.8	L	2.8	fl oz/a	R3	E	
17	AG 3006 - CruiserMax Pak							81.6
17	IntRRo	4	L	2	qt/a	PRE	A	
17	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C	
17	AMS		WG	17	lb/100 gal	POST	C	
17	Headline	2.09	L	6	fl oz/a	R3	E	
18	AG 3006 - CruiserMax Pak							83.2
18	IntRRo	4	L	2	qt/a	PRE	A	
18	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C	
18	AMS		WG	17	lb/100 gal	POST	C	
18	Mustang Max	0.8	L	2.8	fl oz/a	R3	E	
18	Headline	2.09	L	6	fl oz/a	R3	E	
LSD (P=.05)								7.17
Standard Deviation								5.07
CV								6.15