

MSU Weed Science Research Program

Kixor burndown programs in no-till soybean

Trial ID: NTS02-11 Study Dir.: Sprague, Powell
Conducted: C-13W Crops Investigator: Christy Sprague

Date Planted: 5/31/2011 Row Spacing: 7.5 IN
Variety: Agrow 2330 No. of Reps: 4
Population: 200,000 seeds/A % OM: 2.7
Soil Type: Silt Loam pH: 7.6
Plot Size: 10 X 30 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: No-tilled into standing corn stubble
Fertilizer: None at planting

Crop and Weed Description

Table with 4 columns: Weed, Code, Common Name, Scientific Name. Lists weeds 1-11 and crop 1 (GLXMA SOYBEAN).

Application Description

A
Application Timing: 7EPP
Date Treated: 5/9/2011
Time Treated: 4:25 pm
% Cloud Cover: 60
Air Temp., Unit: 72 F
% Relative Humidity: 39
Wind Speed/Unit/Dir: 5 mph S
Soil Temp., Unit: 69 F
Soil/Leaf Surface M: 5 5
Soil Moist (1=w 5=d): 3

Crop Stage at Each Application

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

Weed Stage at Each Application

A
Weed 1 Name: TAROF
Height (In.): 8-12"
Stage (L): flowering
Weed 2 Name: LAMAM
Height (In.): 4-6"
Stage (L): flowering
Weed 3 Name: ERIST
Height (In.): 3-6"
Stage (L): 40-80
Weed 4 Name: STEME
Height (In.): 1-3"
Stage (L): earlyseed
Weed 5 Name: DAUCA
Height (In.): 6-9" dia
Stage (L): 100-120
Weed 6 Name: POAAN
Height (In.): 2"
Stage (L): flowering
Weed 7 Name: PTLAG
Height (In.): 6-16"
Stage (L): 6-20
Weed 8 Name: CAPBP
Height (In.): 3-5" dia
Stage (L): earlyseed

Weed Density (plants/sq. ft.)

Table with 6 columns (1-6) and 2 rows (Weed Name, Density). Weed Name: TAROF, ERICA, DAUCA, ERIST, PTLAG, ANGR. Density: <1, <1, 2, 3, 4, <1

Application Equipment

Table with 10 columns: Appl, Sprayer, Speed, Nozzle, Nozzle, Nozzle, Nozzle, Boom, Type, MPH, Type, Size, Height, Spacing, Width, GPA, Carrier, PSI. Row A: Cub, 3.8, AirMix, 11003, 24", 20", 100", 19, Water, 28

Comments: Roundup PowerMax (32 fl oz/A) + AMS (17 lb/100 gal) was applied on June 25, 2011 to the entire study.

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Table with columns: Weed Code, Crop Code, Rating Data Type, Rating Unit, Rating Date, Trt-Eval Interval, # Subsamples, Dec., Trt No., Treatment Name, Form Conc, Form Type, Rate, Rate Unit, Grow Stg, Appl Code, TAROF, LAMAM, ERIST, STEME, CAPBP, DAUCA. Includes summary statistics at the bottom.

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Table with columns: Weed Code, Crop Code, Rating Data Type, Rating Unit, Rating Date, Trt-Eval Interval, # Subsamples, Dec., POAAN, PTLRE, N.T.Weed overall, GLXMA, DAUCA, TAROF. Includes treatment details like Roundup PowerMax, AMS, 2,4-D Ester, Sharpen, Untreated, OpTill, Verdict, Prowl H2O and summary statistics for LSD, Standard Deviation, and CV.

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Weed Code								CHEAL	AMBEL	GLXMA	GLXMA
Crop Code										moisture	yield
Rating Data Type								control	control	percent	bu/acre
Rating Unit								percent	percent	percent	percent
Rating Date								7/25/2011	7/25/2011	10/31/2011	10/31/2011
Trt-Eval Interval								77 DA-A	77 DA-A	175 DA-A	at 13% M
# Subsamples, Dec.								0	0	1	1
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A	99	99	14.3	65.1
1	AMS		WG	17	lb/100 gal	7 EPP	A				
2	2,4-D Ester	3.8	L	1	pt/a	7 EPP	A	99	99	14.5	60.5
2	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A				
2	AMS		WG	17	lb/100 gal	7 EPP	A				
3	Sharpen	2.85	L	1	fl oz/a	7 EPP	A	99	99	14.4	56.9
3	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A				
3	MSO		L	1	% v/v	7 EPP	A				
3	AMS		WG	17	lb/100 gal	7 EPP	A				
4	Untreated							96	99	14.6	29.7
5	OpTill	68	WG	2	oz/a	7 EPP	A	99	99	14.3	67.2
5	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A				
5	MSO		L	1	% v/v	7 EPP	A				
5	AMS		WG	17	lb/100 gal	7 EPP	A				
6	Verdict	5.57	L	5	fl oz/a	7 EPP	A	99	99	14.5	55.7
6	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A				
6	MSO		L	1	% v/v	7 EPP	A				
6	AMS		WG	17	lb/100 gal	7 EPP	A				
7	Sharpen	2.85	L	1	fl oz/a	7 EPP	A	99	99	14.3	58.1
7	Prowl H2O	3.8	L	2.25	pt/a	7 EPP	A				
7	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A				
7	MSO		L	1	% v/v	7 EPP	A				
7	AMS		WG	17	lb/100 gal	7 EPP	A				
LSD (P=.05)								3.9	0.0	0.39	14.18
Standard Deviation								2.6	0.0	0.26	9.54
CV								2.69	0.0	1.82	16.99

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