University of Georgia

WEED CONTROL IN ENLIST SOYBEANS

Trial ID: SB-13-16 Study Dir.: JOHN RICHBURG
Location: PONDER FARM Investigator: Eric P. Prostko

Reps: 4 Plots: 5 by 25 feet
Spray vol: 15 GAL/AC Mix Size: 1.5 liters (.65176 liters calculated mix size)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Rep 1	2	3	4
1	NTC								101	209	301	410
2	SURVEIL	48	WG	2.83	oz/a	PRE	A	2.119 g/mx	102	201	308	406
3	SURVEIL	48	WG	2.83	oz/a	PRE	A	2.119 g/mx	103	212	304	412
	ENLIST DUO	3.33	SL	75.0	oz/a	POST1	B	58.59 ml/mx				
	BRONC AMS			2.5	% v/v	POST1	B	37.5 ml/mx				
	ENLIST DUO	3.33	SL	75.0	oz/a	POST2	C	58.59 ml/mx				
	BRONC AMS			2.5	% v/v	POST2	C	37.5 ml/mx				
4	SURVEIL	48	WG	2.83	oz/a	PRE	A	2.119 g/mx	104	207	302	407
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST1	B	25.0 ml/mx				
	DURANGO DMA	4	SL	32.0	oz/a	POST1	B	25.0 ml/mx				
	BRONC AMS			2.5	% v/v	POST1	B	37.5 ml/mx				
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST2	C	25.0 ml/mx				
	DURANGO DMA	4	SL	32.0	oz/a	POST2	C	25.0 ml/mx				
	BRONC AMS			2.5	% v/v	POST2	C	37.5 ml/mx				
5	SURVEIL	48	WG	2.83	oz/a	PRE	A	2.119 g/mx	105	206	312	402
	LIBERTY	2.34	SL	29.0	oz/a	POST1	B	22.65 ml/mx				
	BRONC AMS			2.5	% v/v	POST1	B	37.5 ml/mx				
	LIBERTY	2.34	SL	29.0	oz/a	POST2	C	22.65 ml/mx				
	BRONC AMS			2.5	% v/v	POST2	C	37.5 ml/mx				
6	SURVEIL	48	WG	2.83	oz/a	PRE	A	2.119 g/mx	106	211	303	404
	ENLIST DUO	3.33	SL	75.0	oz/a	POST1	B	58.59 ml/mx				
	BRONC AMS			2.5	% v/v	POST1	B	37.5 ml/mx				
	LIBERTY	2.34	SL	29.0	oz/a	POST2	C	22.65 ml/mx				
	BRONC AMS			2.5	% v/v	POST2	C	37.5 ml/mx				
7	SURVEIL	48	WG	2.83	oz/a	PRE	A	2.119 g/mx	107	204	311	409
	LIBERTY	2.34	SL	29.0	oz/a	POST1	B	22.65 ml/mx				
	BRONC AMS			2.5	% v/v	POST1	B	37.5 ml/mx				
	ENLIST DUO	3.33	SL	75.0	oz/a	POST2	C	58.59 ml/mx				
	BRONC AMS			2.5	% v/v	POST2	C	37.5 ml/mx				
8	SURVEIL	48	WG	2.83	oz/a	PRE	A	2.119 g/mx	108	205	310	403
	ENLIST DUO	3.33	SL	75.0	oz/a	POST1	B	58.59 ml/mx				
	PREFIX	5.29	EC	32.0	oz/a	POST1	B	25.0 ml/mx				
	BRONC AMS			2.5	% v/v	POST1	B	37.5 ml/mx				
9	SURVEIL	48	WG	2.83	oz/a	PRE	A	2.119 g/mx	109	210	307	405
	ENLIST DUO	3.33	SL	75.0	oz/a	POST1	B	58.59 ml/mx				
	DUAL II MAGNUM	7.64	EC	16.0	oz/a	POST1	B	12.5 ml/mx				
	BRONC AMS			2.5	% v/v	POST1	B	37.5 ml/mx				
10	SURVEIL	48	WG	2.83	oz/a	PRE	A	2.119 g/mx	110	208	306	411
	LIBERTY	2.34	SL	29.0	oz/a	POST1	B	22.65 ml/mx				
	PREFIX	5.29	EC	32.0	oz/a	POST1	B	25.0 ml/mx				
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST1	B	25.0 ml/mx				
	BRONC AMS			2.5	% v/v	POST1	B	37.5 ml/mx				
11	SURVEIL	48	WG	2.83	oz/a	PRE	A	2.119 g/mx	111	203	305	401
	LIBERTY	2.34	SL	29.0	oz/a	POST1	B	22.65 ml/mx				
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST1	B	25.0 ml/mx				
	DUAL II MAGNUM	7.64	EC	16.0	oz/a	POST1	B	12.5 ml/mx				
	BRONC AMS			2.5	% v/v	POST1	B	37.5 ml/mx				
12	SURVEIL	48	WG	2.83	oz/a	PRE	A	2.119 g/mx	112	202	309	408
	LIBERTY	2.34	SL	29.0	oz/a	POST1	B	22.65 ml/mx				
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST1	B	25.0 ml/mx				
	BRONC AMS			2.5	% v/v	POST1	B	37.5 ml/mx				
	LIBERTY	2.34	SL	29.0	oz/a	POST2	C	22.65 ml/mx				
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST2	C	25.0 ml/mx				
	BRONC AMS			2.5	% v/v	POST2	C	37.5 ml/mx				

Sort Order: Treatment

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WEED CONTROL IN ENLIST SOYBEANS

Trial ID: SB-13-16 Study Dir.: JOHN RICHBURG
Location: PONDER FARM Investigator: Eric P. Prostko

Trial Comments

SURVEIL = CHLORANSULAM (12%) + FLUMIOXAZIN (36%)
PREFIX = FOMESAFEN (0.95 LB/GAL)+ S-MOC (4.34 LB/GAL)
ENLIST DUO = 2,4-D CHOLINE (1.6 LB/GAL)+ GLYPHOSATE (1.7 LB/GAL)

SUMMARY:

1) PRE APPLICATIONS OF SURVEIL CAUSED EARLY SOYBEAN STUNTING (13-18%).

2) POST APPLICATIONS OF ENLIST DUO + PREFIX AND LIBERTY + PREFIX CAUSED SOYBEAN LEAF BURN.

3) GENERALLY, PALMER AMARANTH AND ANNUAL GRASS CONTROL WAS BETTER WHEN PRE APPLICATIONS OF SURVEIL WERE FOLLOWED BY POST APPLICATIONS OF ENLIST DUO OR DURANGO + 2,4-D CHOLINE, OR LIBERTY.

4) ON JULY 22 (72 DAP), PALMER AMARANTH CONTROL EXCEEDED 99% WITH ALL TREATMENTS EXCEPT SURVEIL APPLIED PRE (91% CONTROL).

5) ON JULY 22 (72 DAP), ANNUAL GRASS CONTROL EXCEEDED 91% WITH ALL TREATMENTS EXCEPT SURVEIL APPLIED PRE (77% CONTROL).

6) POST2 APPLICATION WAS NOT REALLY NEEDED IN THIS TEST!

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WEED CONTROL IN ENLIST SOYBEANS

Trial ID: SB-13-16 Study Dir.: JOHN RICHBURG
Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: JOHN RICHBURG **Title:** _____
Affiliation: _____ **Postal Code:** _____

Investigator: Eric P. Prostko **Title:** _____
Affiliation: _____ **Postal Code:** _____

Trial Status: _____ **Initiation Date:** _____ **Country:** _____
City: _____ **State/Prov.:** _____ **Postal Code:** _____
Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N

Objective:

Conclusions:

CROP AND PEST DESCRIPTION

Weed 1. AMAPA PALMER AMARANTH **2.** AGRASS MILLET/CROW/CRAB/GOOSE

Crop 1: GLYMA SOYBEAN **Variety:** 49R15X5 **Planting Date:** May-11-16
Planting Method: MONOSEM **Rate:** 127000 S/A **Depth:** 1.5 IN
Perennial Age: ____ _____ **Row Spacing:** 36 IN **Seed Bed:** _____
Soil Temperature: ____ _ **Soil Moisture:** OPTIMUM **Emergence Date:** _____

Plot Width, Unit: 5 FT **Plot Length, Unit:** 25 FT **Reps:** 4
Site Type: _____
Tillage Type: CONVENTIONAL **Study Design:** RACOBL
Trial Initiation Comments: _____
_____

Previous:	Crops	Pesticides	Year
1.	SOYBEAN	2015	____

MAINTENANCE

Field Prep./Maintenance: _____

No.	Date	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.	_____	_____	____	_____	___	_____	_____

SOIL DESCRIPTION

Texture: SAND **% OM:** 0.58 **% Sand:** 94 **% Silt:** 2 **% Clay:** 4
pH: 6.0 **CEC:** 2.4 **Soil Name:** FUQUAY **Fertility Level:** GOOD

MOISTURE CONDITIONS

On:	Date	Time	Amount	Unit	Type	Interval	Unit
1.	May-10-16	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	___
2.	May-12-16	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	___
3.	May-16-16	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	___
4.	May-17-16	_____	0.54	IN	RAINFALL	_____	___
5.	May-19-16	_____	0.33	IN	RAINFALL	_____	___

Overall Moisture Conditions: _____
Closest Weather Station: _____ **Distance:** _____ **Unit:** __

APPLICATION DESCRIPTION

	A		B		C		D	E	F
Application Date:	May-12-16		Jun-14-16		Jul-6-16		_____	_____	_____
Time of Day:	8:00 AM		10:00 AM		7:40 AM		_____	_____	_____
Application Method:	BROADCAST		BROADCAST		BROADCAST		_____	_____	_____
Application Timing:	PRE		POST1		POST2		_____	_____	_____
Applic. Placement:	SOIL		FOLIAGE		FOLIAGE		_____	_____	_____
Air Temp., Unit:	71	F	86	F	81	F	____ _	____ _	____ _
% Relative Humidity:	69		70		63		_____	_____	_____
Wind Velocity, Unit:	0	MPH	3	MPH	4	MPH	____	____	____
Dew Presence (Y/N):	N		N		Y		_	_	_
Water Hardness:	--		--		--		_____	_____	_____
Soil Temp., Unit:	70	F	85	F	78	F	____ _	____ _	____ _
Soil Moisture:	OPTIMUM		OPTIMUM		DRY		_____	_____	_____
% Cloud Cover:	50		5		5		_____	_____	_____

CROP STAGE AT EACH APPLICATION

	A		B		C		D	E	F
Crop 1 Stage: GLYMA	_____		_____		_____		_____	_____	_____
Stage Scale:	_____		V5		R2		_____	_____	_____
Height, Unit:	____	____	10	IN	20	IN	____	____	____

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WEED STAGE AT EACH APPLICATION

		A	B	C	D	E	F
Weed 1	**Stage:**	AMAPA	2" TALL	NONE			
Stage Scale:							
Density, Unit:							
Weed 2	**Stage:**	AGRASS	3-4" TALL	NONE			
Stage Scale:							
Density, Unit:							

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK	SAME AS B			
Operating Pressure:	28	38				
Nozzle Type:	AIXR	AIXR				
Nozzle Size:	11002	11002				
Nozzle Spacing, Unit:	20 IN	20 IN				
Nozzles/Row:						
Band Width, Unit:						
Boom Length, Unit:	60 IN	60 IN				
Boom Height, Unit:	20 IN	20 IN				
Ground Speed, Unit:	3.0 MPH	3.5 MPH				
Incorporation Equip.:						
Hours to Incorp.:						
Incorp. Depth, Unit:						
Carrier:	WATER	WATER				
Spray Volume, Unit:	15 GPA	15 GPA				
Spray pH:						
Propellant:	CO2	CO2				
Tank Mix (Y/N):	_	_	_	_	_	_

Trt No	**Treatment Application Comment**
__	

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Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	----- GLYMA PLANT - STUNTING PERCENT May-25-16	AMAPA ----- CONTROL PERCENT May-25-16	----- GLYMA PLANT - STUNTING PERCENT Jun-7-16	AMAPA ----- CONTROL PERCENT Jun-7-16	AGRASS ----- CONTROL PERCENT Jun-7-16	----- GLYMA LEAF - BURN PERCENT Jun-24-16
								1	2	3	4	5	6
1	NTC							0.0 d	0.0 c	0.0 a	0.0 c	0.0 c	0.0 c
2	SURVEIL	48	WG	2.83	oz/a	PRE	A	16.3 ab	76.5 b	0.0 a	99.0 a	93.8 ab	0.0 c
3	SURVEIL	48	WG	2.83	oz/a	PRE	A	16.3 ab	99.0 a	0.0 a	99.0 a	97.0 a	0.0 c
	ENLIST DUO	3.33	SL	75.0	oz/a	POST1	B						
	BRONC AMS			2.5	% v/v	POST1	B						
	ENLIST DUO	3.33	SL	75.0	oz/a	POST2	C						
	BRONC AMS			2.5	% v/v	POST2	C						
4	SURVEIL	48	WG	2.83	oz/a	PRE	A	15.0 abc	99.0 a	0.0 a	99.0 a	92.3 ab	0.0 c
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST1	B						
	DURANGO DMA	4	SL	32.0	oz/a	POST1	B						
	BRONC AMS			2.5	% v/v	POST1	B						
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST2	C						
	DURANGO DMA	4	SL	32.0	oz/a	POST2	C						
	BRONC AMS			2.5	% v/v	POST2	C						
5	SURVEIL	48	WG	2.83	oz/a	PRE	A	12.5 c	99.0 a	0.0 a	98.0 b	98.0 a	0.0 c
	LIBERTY	2.34	SL	29.0	oz/a	POST1	B						
	BRONC AMS			2.5	% v/v	POST1	B						
	LIBERTY	2.34	SL	29.0	oz/a	POST2	C						
	BRONC AMS			2.5	% v/v	POST2	C						
6	SURVEIL	48	WG	2.83	oz/a	PRE	A	16.3 ab	99.0 a	0.0 a	99.0 a	98.0 a	0.0 c
	ENLIST DUO	3.33	SL	75.0	oz/a	POST1	B						
	BRONC AMS			2.5	% v/v	POST1	B						
	LIBERTY	2.34	SL	29.0	oz/a	POST2	C						
	BRONC AMS			2.5	% v/v	POST2	C						
7	SURVEIL	48	WG	2.83	oz/a	PRE	A	12.5 c	99.0 a	0.0 a	99.0 a	95.8 ab	0.0 c
	LIBERTY	2.34	SL	29.0	oz/a	POST1	B						
	BRONC AMS			2.5	% v/v	POST1	B						
	ENLIST DUO	3.33	SL	75.0	oz/a	POST2	C						
	BRONC AMS			2.5	% v/v	POST2	C						
8	SURVEIL	48	WG	2.83	oz/a	PRE	A	13.8 bc	99.0 a	0.0 a	99.0 a	95.8 ab	15.0 a
	ENLIST DUO	3.33	SL	75.0	oz/a	POST1	B						
	PREFIX	5.29	EC	32.0	oz/a	POST1	B						
	BRONC AMS			2.5	% v/v	POST1	B						
9	SURVEIL	48	WG	2.83	oz/a	PRE	A	17.5 a	99.0 a	0.0 a	99.0 a	92.0 ab	3.8 b
	ENLIST DUO	3.33	SL	75.0	oz/a	POST1	B						
	DUAL II MAGNUM	7.64	EC	16.0	oz/a	POST1	B						
	BRONC AMS			2.5	% v/v	POST1	B						
10	SURVEIL	48	WG	2.83	oz/a	PRE	A	13.8 bc	99.0 a	0.0 a	99.0 a	91.0 b	15.0 a
	LIBERTY	2.34	SL	29.0	oz/a	POST1	B						
	PREFIX	5.29	EC	32.0	oz/a	POST1	B						
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST1	B						
	BRONC AMS			2.5	% v/v	POST1	B						
11	SURVEIL	48	WG	2.83	oz/a	PRE	A	15.0 abc	99.0 a	0.0 a	99.0 a	93.5 ab	2.5 b
	LIBERTY	2.34	SL	29.0	oz/a	POST1	B						
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST1	B						
	DUAL II MAGNUM	7.64	EC	16.0	oz/a	POST1	B						
	BRONC AMS			2.5	% v/v	POST1	B						

Means followed by same letter or symbol do not significantly differ (P=.10, Duncan's New MRT)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Could not calculate LSD (% mean diff) for columns 3,7 because error mean square = 0.

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6
	Weed Code							-----	AMAPA	-----	AMAPA	AGRASS	-----
	Crop Code							GLYMA	-----	GLYMA	-----	-----	GLYMA
	Part Rated							PLANT -		PLANT -			LEAF -
	Rating Data Type							STUNTING	CONTROL	STUNTING	CONTROL	CONTROL	BURN
	Rating Unit							PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Rating Date							May-25-16	May-25-16	Jun-7-16	Jun-7-16	Jun-7-16	Jun-24-16
12	SURVEIL	48	WG	2.83	oz/a	PRE	A	13.8 bc	99.0 a	0.0 a	99.0 a	95.8 ab	0.0 c
	LIBERTY	2.34	SL	29.0	oz/a	POST1	B						
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST1	B						
	BRONC AMS			2.5	% v/v	POST1	B						
	LIBERTY	2.34	SL	29.0	oz/a	POST2	C						
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST2	C						
	BRONC AMS			2.5	% v/v	POST2	C						
	LSD P=.10							3.05	15.55	.	0.69	5.12	1.35
	Standard Deviation							2.55	12.99	0.00	0.58	4.28	1.13
	CV							18.83	14.62	0.0	0.64	4.93	37.43
	Grand Mean							13.54	88.88	0.00	90.67	86.90	3.02
	Bartlett's X2							3.945	0.0	0.0	0.0	11.751	0.061
	P(Bartlett's X2)							0.915	.	.	.	0.302	0.805
	Replicate F							6.301	1.000	0.000	1.000	2.442	0.407
	Replicate Prob(F)							0.0017	0.4051	1.0000	0.4051	0.0816	0.7487
	Treatment F							12.728	19.560	0.000	9784.001	164.698	102.630
	Treatment Prob(F)							0.0001	0.0001	1.0000	0.0001	0.0001	0.0001

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	AMAPA ----- CONTROL PERCENT Jun-24-16	AGRASS ----- CONTROL PERCENT Jun-24-16	AMAPA ----- CONTROL PERCENT Jul-22-16	AGRASS ----- CONTROL PERCENT Jul-22-16
	Weed Code										
	Crop Code										
	Part Rated										
	Rating Data Type										
	Rating Unit										
	Rating Date										
								7	8	9	10
1	NTC							0.0 b	0.0 c	0.0 c	0.0 c
2	SURVEIL	48	WG	2.83	oz/a	PRE	A	99.0 a	97.0 ab	90.5 b	77.3 b
3	SURVEIL	48	WG	2.83	oz/a	PRE	A	99.0 a	99.0 a	99.0 a	99.0 a
	ENLIST DUO	3.33	SL	75.0	oz/a	POST1	B				
	BRONC AMS			2.5	% v/v	POST1	B				
	ENLIST DUO	3.33	SL	75.0	oz/a	POST2	C				
	BRONC AMS			2.5	% v/v	POST2	C				
4	SURVEIL	48	WG	2.83	oz/a	PRE	A	99.0 a	96.8 b	99.0 a	95.5 a
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST1	B				
	DURANGO DMA	4	SL	32.0	oz/a	POST1	B				
	BRONC AMS			2.5	% v/v	POST1	B				
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST2	C				
	DURANGO DMA	4	SL	32.0	oz/a	POST2	C				
	BRONC AMS			2.5	% v/v	POST2	C				
5	SURVEIL	48	WG	2.83	oz/a	PRE	A	99.0 a	99.0 a	99.0 a	95.5 a
	LIBERTY	2.34	SL	29.0	oz/a	POST1	B				
	BRONC AMS			2.5	% v/v	POST1	B				
	LIBERTY	2.34	SL	29.0	oz/a	POST2	C				
	BRONC AMS			2.5	% v/v	POST2	C				
6	SURVEIL	48	WG	2.83	oz/a	PRE	A	99.0 a	99.0 a	99.0 a	98.0 a
	ENLIST DUO	3.33	SL	75.0	oz/a	POST1	B				
	BRONC AMS			2.5	% v/v	POST1	B				
	LIBERTY	2.34	SL	29.0	oz/a	POST2	C				
	BRONC AMS			2.5	% v/v	POST2	C				
7	SURVEIL	48	WG	2.83	oz/a	PRE	A	99.0 a	99.0 a	99.0 a	99.0 a
	LIBERTY	2.34	SL	29.0	oz/a	POST1	B				
	BRONC AMS			2.5	% v/v	POST1	B				
	ENLIST DUO	3.33	SL	75.0	oz/a	POST2	C				
	BRONC AMS			2.5	% v/v	POST2	C				
8	SURVEIL	48	WG	2.83	oz/a	PRE	A	99.0 a	99.0 a	99.0 a	99.0 a
	ENLIST DUO	3.33	SL	75.0	oz/a	POST1	B				
	PREFIX	5.29	EC	32.0	oz/a	POST1	B				
	BRONC AMS			2.5	% v/v	POST1	B				
9	SURVEIL	48	WG	2.83	oz/a	PRE	A	99.0 a	99.0 a	99.0 a	98.0 a
	ENLIST DUO	3.33	SL	75.0	oz/a	POST1	B				
	DUAL II MAGNUM	7.64	EC	16.0	oz/a	POST1	B				
	BRONC AMS			2.5	% v/v	POST1	B				
10	SURVEIL	48	WG	2.83	oz/a	PRE	A	99.0 a	98.0 ab	99.0 a	96.8 a
	LIBERTY	2.34	SL	29.0	oz/a	POST1	B				
	PREFIX	5.29	EC	32.0	oz/a	POST1	B				
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST1	B				
	BRONC AMS			2.5	% v/v	POST1	B				
11	SURVEIL	48	WG	2.83	oz/a	PRE	A	99.0 a	99.0 a	99.0 a	92.0 a
	LIBERTY	2.34	SL	29.0	oz/a	POST1	B				
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST1	B				
	DUAL II MAGNUM	7.64	EC	16.0	oz/a	POST1	B				
	BRONC AMS			2.5	% v/v	POST1	B				

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
Weed Code								AMAPA	AGRASS	AMAPA	AGRASS
Crop Code								-----	-----	-----	-----
Part Rated											
Rating Data Type								CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit								PERCENT	PERCENT	PERCENT	PERCENT
Rating Date								Jun-24-16	Jun-24-16	Jul-22-16	Jul-22-16
								7	8	9	10
12	SURVEIL	48	WG	2.83	oz/a	PRE	A	99.0 a	99.0 a	99.0 a	99.0 a
	LIBERTY	2.34	SL	29.0	oz/a	POST1	B				
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST1	B				
	BRONC AMS			2.5	% v/v	POST1	B				
	LIBERTY	2.34	SL	29.0	oz/a	POST2	C				
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST2	C				
	BRONC AMS			2.5	% v/v	POST2	C				
LSD P=.10								.	1.77	5.87	8.50
Standard Deviation								0.00	1.48	4.91	7.10
CV								0.0	1.64	5.45	8.12
Grand Mean								90.75	90.31	90.04	87.42
Bartlett's X2								0.0	2.334	0.0	20.925
P(Bartlett's X2)								.	0.311	.	0.002*
Replicate F								0.000	2.462	1.000	0.943
Replicate Prob(F)								1.0000	0.0799	0.4051	0.4312
Treatment F								0.000	1473.572	134.536	63.100
Treatment Prob(F)								1.0000	0.0001	0.0001	0.0001

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WEED CONTROL IN ENLIST SOYBEANS

Trial ID: SB-13-16 Study Dir.: JOHN RICHBURG
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code
AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.
Part Rated
PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)
LEAF = LEAF / FOLIAGE

University of Georgia

WEED CONTROL IN ENLIST SOYBEANS

Trial ID: SB-13-16 Study Dir.: JOHN RICHBURG
Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot	----- GLYMA PLANT - STUNTING PERCENT May-25-16 (1)	AMAPA ----- CONTROL PERCENT May-25-16 (2)	----- GLYMA PLANT - STUNTING PERCENT Jun-7-16 (3)	AMAPA ----- CONTROL PERCENT Jun-7-16 (4)	AGRASS ----- CONTROL PERCENT Jun-7-16 (5)	----- GLYMA LEAF - BURN PERCENT Jun-24-16 (6)
1	NTC							101	0.0	0.0	0.0	0.0	0.0	0.0
								209	0.0	0.0	0.0	0.0	0.0	0.0
								301	0.0	0.0	0.0	0.0	0.0	0.0
								410	0.0	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0	0.0
2	SURVEIL	48	WG	2.83	oz/a	PRE	A	102	15.0	9.0	0.0	99.0	95.0	0.0
								201	20.0	99.0	0.0	99.0	95.0	0.0
								308	15.0	99.0	0.0	99.0	95.0	0.0
								406	15.0	99.0	0.0	99.0	90.0	0.0
								Mean =	16.3	76.5	0.0	99.0	93.8	0.0
3	SURVEIL	48	WG	2.83	oz/a	PRE	A	103	15.0	99.0	0.0	99.0	95.0	0.0
	ENLIST DUO	3.33	SL	75.0	oz/a	POST1	B	212	20.0	99.0	0.0	99.0	99.0	0.0
	BRONC AMS			2.5	% v/v	POST1	B	304	20.0	99.0	0.0	99.0	99.0	0.0
	ENLIST DUO	3.33	SL	75.0	oz/a	POST2	C	412	10.0	99.0	0.0	99.0	95.0	0.0
	BRONC AMS			2.5	% v/v	POST2	C							
								Mean =	16.3	99.0	0.0	99.0	97.0	0.0
4	SURVEIL	48	WG	2.83	oz/a	PRE	A	104	15.0	99.0	0.0	99.0	95.0	0.0
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST1	B	207	15.0	99.0	0.0	99.0	85.0	0.0
	DURANGO DMA	4	SL	32.0	oz/a	POST1	B	302	15.0	99.0	0.0	99.0	99.0	0.0
	BRONC AMS			2.5	% v/v	POST1	B	407	15.0	99.0	0.0	99.0	90.0	0.0
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST2	C							
	DURANGO DMA	4	SL	32.0	oz/a	POST2	C							
	BRONC AMS			2.5	% v/v	POST2	C							
								Mean =	15.0	99.0	0.0	99.0	92.3	0.0
5	SURVEIL	48	WG	2.83	oz/a	PRE	A	105	15.0	99.0	0.0	99.0	95.0	0.0
	LIBERTY	2.34	SL	29.0	oz/a	POST1	B	206	15.0	99.0	0.0	95.0	99.0	0.0
	BRONC AMS			2.5	% v/v	POST1	B	312	10.0	99.0	0.0	99.0	99.0	0.0
	LIBERTY	2.34	SL	29.0	oz/a	POST2	C	402	10.0	99.0	0.0	99.0	99.0	0.0
	BRONC AMS			2.5	% v/v	POST2	C							
								Mean =	12.5	99.0	0.0	98.0	98.0	0.0
6	SURVEIL	48	WG	2.83	oz/a	PRE	A	106	15.0	99.0	0.0	99.0	99.0	0.0
	ENLIST DUO	3.33	SL	75.0	oz/a	POST1	B	211	20.0	99.0	0.0	99.0	99.0	0.0
	BRONC AMS			2.5	% v/v	POST1	B	303	15.0	99.0	0.0	99.0	99.0	0.0
	LIBERTY	2.34	SL	29.0	oz/a	POST2	C	404	15.0	99.0	0.0	99.0	95.0	0.0
	BRONC AMS			2.5	% v/v	POST2	C							
								Mean =	16.3	99.0	0.0	99.0	98.0	0.0
7	SURVEIL	48	WG	2.83	oz/a	PRE	A	107	15.0	99.0	0.0	99.0	99.0	0.0
	LIBERTY	2.34	SL	29.0	oz/a	POST1	B	204	15.0	99.0	0.0	99.0	99.0	0.0
	BRONC AMS			2.5	% v/v	POST1	B	311	10.0	99.0	0.0	99.0	95.0	0.0
	ENLIST DUO	3.33	SL	75.0	oz/a	POST2	C	409	10.0	99.0	0.0	99.0	90.0	0.0
	BRONC AMS			2.5	% v/v	POST2	C							
								Mean =	12.5	99.0	0.0	99.0	95.8	0.0
8	SURVEIL	48	WG	2.83	oz/a	PRE	A	108	15.0	99.0	0.0	99.0	95.0	15.0
	ENLIST DUO	3.33	SL	75.0	oz/a	POST1	B	205	15.0	99.0	0.0	99.0	99.0	15.0
	PREFIX	5.29	EC	32.0	oz/a	POST1	B	310	10.0	99.0	0.0	99.0	99.0	15.0
	BRONC AMS			2.5	% v/v	POST1	B	403	15.0	99.0	0.0	99.0	90.0	15.0
								Mean =	13.8	99.0	0.0	99.0	95.8	15.0
9	SURVEIL	48	WG	2.83	oz/a	PRE	A	109	15.0	99.0	0.0	99.0	99.0	0.0
	ENLIST DUO	3.33	SL	75.0	oz/a	POST1	B	210	20.0	99.0	0.0	99.0	99.0	5.0
	DUAL II MAGNUM	7.64	EC	16.0	oz/a	POST1	B	307	20.0	99.0	0.0	99.0	85.0	5.0
	BRONC AMS			2.5	% v/v	POST1	B	405	15.0	99.0	0.0	99.0	85.0	5.0
								Mean =	17.5	99.0	0.0	99.0	92.0	3.8
10	SURVEIL	48	WG	2.83	oz/a	PRE	A	110	15.0	99.0	0.0	99.0	90.0	15.0
	LIBERTY	2.34	SL	29.0	oz/a	POST1	B	208	15.0	99.0	0.0	99.0	85.0	15.0
	PREFIX	5.29	EC	32.0	oz/a	POST1	B	306	15.0	99.0	0.0	99.0	99.0	15.0
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST1	B	411	10.0	99.0	0.0	99.0	90.0	15.0
	BRONC AMS			2.5	% v/v	POST1	B							
								Mean =	13.8	99.0	0.0	99.0	91.0	15.0

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot	1	2	3	4	5	6
	Weed Code								-----	AMAPA	-----	AMAPA	AGRASS	-----
	Crop Code								GLYMA	-----	GLYMA	-----	-----	GLYMA
	Part Rated								PLANT -		PLANT -			LEAF -
	Rating Data Type								STUNTING	CONTROL	STUNTING	CONTROL	CONTROL	BURN
	Rating Unit								PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Rating Date								May-25-16	May-25-16	Jun-7-16	Jun-7-16	Jun-7-16	Jun-24-16
11	SURVEIL	48	WG	2.83	oz/a	PRE	A	111	20.0	99.0	0.0	99.0	99.0	5.0
	LIBERTY	2.34	SL	29.0	oz/a	POST1	B	203	15.0	99.0	0.0	99.0	85.0	0.0
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST1	B	305	15.0	99.0	0.0	99.0	95.0	0.0
	DUAL II MAGNUM	7.64	EC	16.0	oz/a	POST1	B	401	10.0	99.0	0.0	99.0	95.0	5.0
	BRONC AMS			2.5	% v/v	POST1	B							
								Mean =	15.0	99.0	0.0	99.0	93.5	2.5
12	SURVEIL	48	WG	2.83	oz/a	PRE	A	112	20.0	99.0	0.0	99.0	99.0	0.0
	LIBERTY	2.34	SL	29.0	oz/a	POST1	B	202	15.0	99.0	0.0	99.0	90.0	0.0
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST1	B	309	10.0	99.0	0.0	99.0	99.0	0.0
	BRONC AMS			2.5	% v/v	POST1	B	408	10.0	99.0	0.0	99.0	95.0	0.0
	LIBERTY	2.34	SL	29.0	oz/a	POST2	C							
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST2	C							
	BRONC AMS			2.5	% v/v	POST2	C							
								Mean =	13.8	99.0	0.0	99.0	95.8	0.0

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot	AMAPA ----- CONTROL PERCENT Jun-24-16 7	AGRASS ----- CONTROL PERCENT Jun-24-16 8	AMAPA ----- CONTROL PERCENT Jul-22-16 9	AGRASS ----- CONTROL PERCENT Jul-22-16 10
1	NTC							101	0.0	0.0	0.0	0.0
								209	0.0	0.0	0.0	0.0
								301	0.0	0.0	0.0	0.0
								410	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0
2	SURVEIL	48	WG	2.83	oz/a	PRE	A	102	99.0	99.0	65.0	99.0
								201	99.0	95.0	99.0	60.0
								308	99.0	99.0	99.0	90.0
								406	99.0	95.0	99.0	60.0
								Mean =	99.0	97.0	90.5	77.3
3	SURVEIL	48	WG	2.83	oz/a	PRE	A	103	99.0	99.0	99.0	99.0
	ENLIST DUO	3.33	SL	75.0	oz/a	POST1	B	212	99.0	99.0	99.0	99.0
	BRONC AMS			2.5	% v/v	POST1	B	304	99.0	99.0	99.0	99.0
	ENLIST DUO	3.33	SL	75.0	oz/a	POST2	C	412	99.0	99.0	99.0	99.0
	BRONC AMS			2.5	% v/v	POST2	C					
								Mean =	99.0	99.0	99.0	99.0
4	SURVEIL	48	WG	2.83	oz/a	PRE	A	104	99.0	99.0	99.0	99.0
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST1	B	207	99.0	90.0	99.0	85.0
	DURANGO DMA	4	SL	32.0	oz/a	POST1	B	302	99.0	99.0	99.0	99.0
	BRONC AMS			2.5	% v/v	POST1	B	407	99.0	99.0	99.0	99.0
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST2	C					
	DURANGO DMA	4	SL	32.0	oz/a	POST2	C					
	BRONC AMS			2.5	% v/v	POST2	C					
								Mean =	99.0	96.8	99.0	95.5
5	SURVEIL	48	WG	2.83	oz/a	PRE	A	105	99.0	99.0	99.0	99.0
	LIBERTY	2.34	SL	29.0	oz/a	POST1	B	206	99.0	99.0	99.0	99.0
	BRONC AMS			2.5	% v/v	POST1	B	312	99.0	99.0	99.0	85.0
	LIBERTY	2.34	SL	29.0	oz/a	POST2	C	402	99.0	99.0	99.0	99.0
	BRONC AMS			2.5	% v/v	POST2	C					
								Mean =	99.0	99.0	99.0	95.5
6	SURVEIL	48	WG	2.83	oz/a	PRE	A	106	99.0	99.0	99.0	99.0
	ENLIST DUO	3.33	SL	75.0	oz/a	POST1	B	211	99.0	99.0	99.0	99.0
	BRONC AMS			2.5	% v/v	POST1	B	303	99.0	99.0	99.0	99.0
	LIBERTY	2.34	SL	29.0	oz/a	POST2	C	404	99.0	99.0	99.0	95.0
	BRONC AMS			2.5	% v/v	POST2	C					
								Mean =	99.0	99.0	99.0	98.0
7	SURVEIL	48	WG	2.83	oz/a	PRE	A	107	99.0	99.0	99.0	99.0
	LIBERTY	2.34	SL	29.0	oz/a	POST1	B	204	99.0	99.0	99.0	99.0
	BRONC AMS			2.5	% v/v	POST1	B	311	99.0	99.0	99.0	99.0
	ENLIST DUO	3.33	SL	75.0	oz/a	POST2	C	409	99.0	99.0	99.0	99.0
	BRONC AMS			2.5	% v/v	POST2	C					
								Mean =	99.0	99.0	99.0	99.0
8	SURVEIL	48	WG	2.83	oz/a	PRE	A	108	99.0	99.0	99.0	99.0
	ENLIST DUO	3.33	SL	75.0	oz/a	POST1	B	205	99.0	99.0	99.0	99.0
	PREFIX	5.29	EC	32.0	oz/a	POST1	B	310	99.0	99.0	99.0	99.0
	BRONC AMS			2.5	% v/v	POST1	B	403	99.0	99.0	99.0	99.0
								Mean =	99.0	99.0	99.0	99.0
9	SURVEIL	48	WG	2.83	oz/a	PRE	A	109	99.0	99.0	99.0	99.0
	ENLIST DUO	3.33	SL	75.0	oz/a	POST1	B	210	99.0	99.0	99.0	95.0
	DUAL II MAGNUM	7.64	EC	16.0	oz/a	POST1	B	307	99.0	99.0	99.0	99.0
	BRONC AMS			2.5	% v/v	POST1	B	405	99.0	99.0	99.0	99.0
								Mean =	99.0	99.0	99.0	98.0
10	SURVEIL	48	WG	2.83	oz/a	PRE	A	110	99.0	99.0	99.0	99.0
	LIBERTY	2.34	SL	29.0	oz/a	POST1	B	208	99.0	95.0	99.0	99.0
	PREFIX	5.29	EC	32.0	oz/a	POST1	B	306	99.0	99.0	99.0	90.0
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST1	B	411	99.0	99.0	99.0	99.0
	BRONC AMS			2.5	% v/v	POST1	B					
								Mean =	99.0	98.0	99.0	96.8

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot	7	8	9	10
	Weed Code								AMAPA	AGRASS	AMAPA	AGRASS
	Crop Code								-----	-----	-----	-----
	Part Rated											
	Rating Data Type								CONTROL	CONTROL	CONTROL	CONTROL
	Rating Unit								PERCENT	PERCENT	PERCENT	PERCENT
	Rating Date								Jun-24-16	Jun-24-16	Jul-22-16	Jul-22-16
11	SURVEIL	48	WG	2.83	oz/a	PRE	A	111	99.0	99.0	99.0	85.0
	LIBERTY	2.34	SL	29.0	oz/a	POST1	B	203	99.0	99.0	99.0	85.0
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST1	B	305	99.0	99.0	99.0	99.0
	DUAL II MAGNUM	7.64	EC	16.0	oz/a	POST1	B	401	99.0	99.0	99.0	99.0
	BRONC AMS			2.5	% v/v	POST1	B					
								Mean =	99.0	99.0	99.0	92.0
12	SURVEIL	48	WG	2.83	oz/a	PRE	A	112	99.0	99.0	99.0	99.0
	LIBERTY	2.34	SL	29.0	oz/a	POST1	B	202	99.0	99.0	99.0	99.0
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST1	B	309	99.0	99.0	99.0	99.0
	BRONC AMS			2.5	% v/v	POST1	B	408	99.0	99.0	99.0	99.0
	LIBERTY	2.34	SL	29.0	oz/a	POST2	C					
	2,4-D CHOLINE	3.8	SL	32.0	oz/a	POST2	C					
	BRONC AMS			2.5	% v/v	POST2	C					
								Mean =	99.0	99.0	99.0	99.0

University of Georgia

WEED CONTROL IN ENLIST SOYBEANS

Trial ID: SB-13-16 Study Dir.: JOHN RICHBURG
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code
AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.
Part Rated
PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)
LEAF = LEAF / FOLIAGE