

University of Georgia

TACKLE FOR BURNDOWN AND POST WEED CONTROL IN SOYBEANS												
Trial ID:		SB-02-10		Study Dir.:								
Location:		PONDER FARM		Investigator:		Eric P. Prostko						
Reps: 4		Plots: 6 by 20 feet										
Spray vol: 15 gal/ac		Mix size: 1.5 liters (min .62569)										
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Stg	Appl Code	Amt Product to Measure	Rep 1	2	3	4
1	NTC								101	208	309	406
2	TACKLE AMS-XTRA NIS	4.12 SL 3.4 L		32.0 oz/a 96.0 oz/a 0.25 % v/v		BRNDWN A BRNDWN A BRNDWN A		25.0 ml/mx 74.99 ml/mx 3.75 ml/mx	102	207	305	407
3	TACKLE AMS-XTRA NIS TACKLE AMS-XTRA NIS	4.12 SL 3.4 L 4.12 SL 3.4 L		32.0 oz/a 96.0 oz/a 0.25 % v/v 32.0 oz/a 96.0 oz/a 0.25 % v/v		BRNDWN A BRNDWN A BRNDWN A EPOST B EPOST B EPOST B		25.0 ml/mx 74.99 ml/mx 3.75 ml/mx 25.0 ml/mx 74.99 ml/mx 3.75 ml/mx	103	206	306	409
4	GLYFOS X-TRA TACKLE AMS-XTRA NIS	4 SL 4.12 SL 3.4 L		32.0 oz/a 32.0 oz/a 96.0 oz/a 0.25 % v/v		BRNDWN A EPOST B EPOST B EPOST B		25.0 ml/mx 25.0 ml/mx 74.99 ml/mx 3.75 ml/mx	104	205	307	401
5	GLYFOS X-TRA TACKLE AMS-XTRA NIS	4 SL 4.12 SL 3.4 L		32.0 oz/a 64.0 oz/a 96.0 oz/a 0.25 % v/v		BRNDWN A EPOST B EPOST B EPOST B		25.0 ml/mx 49.99 ml/mx 74.99 ml/mx 3.75 ml/mx	105	204	308	402
6	GLYFOS X-TRA EXTREME AMS-XTRA NIS	4 SL 2.17 ME 3.4 L		32.0 oz/a 3.0 pt/a 96.0 oz/a 0.25 % v/v		BRNDWN A EPOST B EPOST B EPOST B		25.0 ml/mx 37.5 ml/mx 74.99 ml/mx 3.75 ml/mx	106	209	301	403
7	ROUNDUP W-MAX VALOR SX REFLEX NIS	5.5 SL 51 WG 2 SL		22.0 oz/a 1.0 oz/a 1.5 pt/a 0.25 % v/v		BRNDWN A BRNDWN A EPOST B EPOST B		17.19 ml/mx 0.7489 g/mx 18.75 ml/mx 3.75 ml/mx	107	202	302	404
8	ROUNDUP W-MAX TRICOR REFLEX NIS	5.5 SL 75 DG 2 SL		22.0 oz/a 5.3 oz/a 1.5 pt/a 0.25 % v/v		BRNDWN A BRNDWN A EPOST B EPOST B		17.19 ml/mx 3.969 g/mx 18.75 ml/mx 3.75 ml/mx	108	201	303	405
9	ROUNDUP W-MAX TRICOR	5.5 SL 75 DG		22.0 oz/a 5.3 oz/a		BRNDWN A BRNDWN A		17.19 ml/mx 3.969 q/mx	109	203	304	408

Sort Order: Treatment

Trial Comments

EXTREME = GLYPHOSATE (2 LBS/GAL) + PURSUIT (0.17 LBS/GAL)
 TACKLE = GLYPHOSATE (4 LBS/GAL) + PURSUIT (0.128/GAL)
 RATE OF AMS IS EQUIVALENT TO 17 LBS/100 GALS OR 2.55 LBS/A
 NIS = 80/20

GRASS = TEXAS MILLET + CRABGRASS + CROWFOOTGRASS
 IPOSP = IVYLEAF + PITTED

SUMMARY:

- 1) SOYBEAN INJURY WAS MINIMAL FROM ALL TREATMENTS (<5%).
- 2) WHEN TRICOR WAS MIXED WITH ROUNDUP, BURNDOWN CONTROL OF ANNUAL GRASSES WAS SLOWED DOWN.
- 3) NO TREATMENT IN THIS TEST PROVIDED ACCEPTABLE CONTROL OF ANNUAL MORNINGGLORY.
- 4) ON JULY 26 (54 DAP), ANNUAL GRASS CONTROL WITH EXTREME AND TACKLE WAS EQUIVALENT (> 95%).
- 5) ON JULY 26 (54 DAP), THE ONLY TREATMENTS THAT PROVIDED ACCEPTABLE CONTROL OF FLORIDA PUSLEY (> 80%) WERE GLYPHOSATE (BURNDOWN) FOLLOWED BY TACKLE AT 32 OR 64 OZ/A (EPOST). HOWEVER, CONTROL FROM THE TACKLE TREATMENTS WAS NOT STATISTICALLY BETTER THAN THE CONTROL PROVIDED BY EXTREME.

TACKLE FOR BURNDOWN AND POST WEED CONTROL IN SOYBEANS			
Trial ID:	SB-02-10	Study Dir.:	
Location:	PONDER FARM	Investigator:	Eric P. Prostko

Weed 1: I.POSP	IVYLEAF + PITTED	Weed 2: RCHSC	FLORIDA PUSLEY
Weed 3: GRASS	PANTE+DIGSP+CROWFOOT	Weed 4: _____	_____
Crop 1: GLYMA	SOYBEAN	Variety: PIONEER 96M60RR	Planting Date: Jun-2-10
Planting Method: MONOSEM		Rate: 10	SEED/FT Depth: 2 IN
Perennial Age: _____		Row Spacing: 36 IN	Seed Bed: _____
Soil Temperature: _____		Soil Moisture: OPTIMUM	Emergence Date: _____

Plot Width, Unit:	6	FT	Plot Length, Unit:	20	FT	Reps:	4
Site Type:							
Tillage Type:	CONVENTIONAL			Study Design: RACOB			
Trial Initiation Comments:	TEMIK 15G INFR @ 5 LBS/A						

Previous: Crops	Pesticides	Year
1.		

Field Prep./Maintenance:							
No.	Date	Treatment Name	Form Conc	Form Unit	Form Rate Type	Rate	Unit
1.							

Texture: SAND **% OM:** 1.21 **% Sand:** 92 **% Silt:** 6 **% Clay:** 2
pH: 6.0 **CEC:** **Soil Name:** **Fertility Level:**

On:	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions:		
Closest Weather Station:	Distance:	Unit:

Application Description		A	B	C	D	E	F
Application Date:	May-20-10	Jun-17-10					
Time of Day:	8:30 AM	8:00 AM					
Application Method:	BROADCAST	BROADCAST					
Application Timing:	BRNDWN	EPOST					
Applic. Placement:	FOLIAGE	FOLIAGE					
Air Temp., Unit:	75 F	74 F					
% Relative Humidity:	68	93					
Wind Velocity, Unit:	1 MPH	0 MPH					
Dew Presence (Y/N):	Y	Y					
Water Hardness:	--	--					
Soil Temp., Unit:	71 F	79 F					
Soil Moisture:	OPTIMUM	OPTIMUM					
% Cloud Cover:	0	0					

		A	B	C	D	E	F
Crop 1	Stage: GLYMA						
	Stage Scale:		V2				
	Height, Unit:		4 IN				

		WEED STAGE AT RCHSPT PLANTATION					
		A	B	C	D	E	F
Weed 1	Stage: IPOSP	3-4"	4-5"				
	Stage Scale:						
	Density, Unit:						
Weed 2	Stage: RCHSC	2"	7-8"				
	Stage Scale:		FLOWERING				
	Density, Unit:						
Weed 3	Stage: GRASS	3-4"	5-6"				
	Stage Scale:						
	Density, Unit:						

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 Location: PONDER FARM Investigator: Eric P. Prostko

		APPLICATION EQUIPMENT					
		A	B	C	D	E	F
Appl. Equipment:	BACKPACK SAME						
Operating Pressure:	38						
Nozzle Type:	FLAT FAN						
Nozzle Size:	11002DG						
Nozzle Spacing, Unit:	20	IN					
Nozzles/Row:							
Band Width, Unit:							
Boom Length, Unit:	60	IN					
Boom Height, Unit:	16	IN					
Ground Speed, Unit:	3.5	MPH					
Incorporation Equip.:							
Hours to Incorp.:							
Incorp. Depth, Unit:							
Carrier:	WATER						
Spray Volume, Unit:	15	GPA					
Spray pH:							
Propellant:	CO2						
Tank Mix (Y/N):							

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Location:		PONDER FARM		Investigator:		Eric P. Prostko						
Weed Code						GRASS	IPOSP	GLYMA	GRASS	RCHSC	IPOSP	
Crop Code						-----	-----	-----	-----	-----	-----	
Part Rated								PLANT -				
Rating Data Type						CONTROL	CONTROL	INJURY	CONTROL	CONTROL	CONTROL	
Rating Unit						PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Rating Date						May-26-10	May-26-10	Jun-15-10	Jun-15-10	Jun-15-10	Jun-15-10	
Trt	Treatment	Form	Form	Rate	Grow	Appl						
No.	Name	Conc	Type	Rate	Unit	Stg	Code					
								1	2	3	4	5
												6
1	NTC							0.3 d	0.0 c	0.0 a	0.0 e	0.0 c
2	TACKLE	4.12 SL		32.0 oz/a	BRNDWN	A		92.0 ab	0.0 c	3.8 a	92.5 a	32.5 b
	AMS-XTRA	3.4 L		96.0 oz/a	BRNDWN	A						32.5 c
	NIS			0.25 % v/v	BRNDWN	A						
3	TACKLE	4.12 SL		32.0 oz/a	BRNDWN	A		86.3 b	0.0 c	2.5 a	83.8 abc	16.3 bc
	AMS-XTRA	3.4 L		96.0 oz/a	BRNDWN	A						37.5 bc
	NIS			0.25 % v/v	BRNDWN	A						
	TACKLE	4.12 SL		32.0 oz/a	EPOST	B						
	AMS-XTRA	3.4 L		96.0 oz/a	EPOST	B						
	NIS			0.25 % v/v	EPOST	B						
4	GLYFOS X-TRA	4 SL		32.0 oz/a	BRNDWN	A		94.8 a	0.0 c	0.0 a	77.5 bcd	78.8 a
	TACKLE	4.12 SL		32.0 oz/a	EPOST	B						37.5 bc
	AMS-XTRA	3.4 L		96.0 oz/a	EPOST	B						
	NIS			0.25 % v/v	EPOST	B						
5	GLYFOS X-TRA	4 SL		32.0 oz/a	BRNDWN	A		96.0 a	0.0 c	0.0 a	68.8 d	77.5 a
	TACKLE	4.12 SL		64.0 oz/a	EPOST	B						53.8 abc
	AMS-XTRA	3.4 L		96.0 oz/a	EPOST	B						
	NIS			0.25 % v/v	EPOST	B						
6	GLYFOS X-TRA	4 SL		32.0 oz/a	BRNDWN	A		92.3 ab	0.0 c	2.5 a	72.5 cd	70.0 a
	EXTREME	2.17 ME		3.0 pt/a	EPOST	B						46.3 abc
	AMS-XTRA	3.4 L		96.0 oz/a	EPOST	B						
	NIS			0.25 % v/v	EPOST	B						
7	ROUNDUP W-MAX	5.5 SL		22.0 oz/a	BRNDWN	A		94.5 a	32.5 b	2.5 a	87.5 ab	71.3 a
	VALOR SX	51 WG		1.0 oz/a	BRNDWN	A						56.3 ab
	REFLEX	2 SL		1.5 pt/a	EPOST	B						
	NIS			0.25 % v/v	EPOST	B						
8	ROUNDUP W-MAX	5.5 SL		22.0 oz/a	BRNDWN	A		57.5 c	50.0 a	2.5 a	81.3 a-d	71.3 a
	TRICOR	75 DG		5.3 oz/a	BRNDWN	A						45.0 abc
	REFLEX	2 SL		1.5 pt/a	EPOST	B						
	NIS			0.25 % v/v	EPOST	B						
9	ROUNDUP W-MAX	5.5 SL		22.0 oz/a	BRNDWN	A		53.8 c	50.0 a	2.5 a	76.3 bcd	76.3 a
	TRICOR	75 DG		5.3 oz/a	BRNDWN	A						62.5 a
LSD (P=.10)							7.04	2.02	5.09	13.13	21.47	18.90
Standard Deviation							5.82	1.67	4.21	10.85	17.75	15.62
CV							7.85	11.32	233.07	15.26	32.35	37.86
Grand Mean							74.14	14.72	1.81	71.11	54.86	41.25
Bartlett's X2							17.144	0.0	0.908	7.695	3.246	7.067
P(Bartlett's X2)							0.029*	.	0.97	0.36	0.861	0.422
Replicate F							1.874	1.000	2.235	0.425	2.101	1.916
Replicate Prob(F)							0.1609	0.4098	0.1101	0.7370	0.1266	0.1539
Treatment F							121.932	739.000	0.451	25.997	11.602	5.490
Treatment Prob(F)							0.0001	0.0001	0.8778	0.0001	0.0001	0.0005

Means followed by same letter 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.

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Trial ID: Location:		SB-02-10 PONDER FARM		Study Dir.: Investigator:		Eric P. Prostko				
Weed Code Crop Code Part Rated Rating Data Type						RCHSC ----- CONTROL	GRASS ----- CONTROL	IPOSP ----- CONTROL	GRASS ----- CONTROL	RCHSC ----- CONTROL
Rating Unit Rating Date						PERCENT Jun-29-10	PERCENT Jun-29-10	PERCENT Jun-29-10	PERCENT Jul-26-10	PERCENT Jul-26-10
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code	7	8	9	10
1	NTC						0.0 d	0.0 c	0.0 e	0.0 c
2	TACKLE AMS-XTRA NIS	4.12 SL 3.4 L		32.0 oz/a 96.0 oz/a 0.25 % v/v	BRNDWN A BRNDWN A BRNDWN A		12.5 cd	98.0 a	20.0 de	80.0 a
3	TACKLE AMS-XTRA NIS TACKLE AMS-XTRA NIS	4.12 SL 3.4 L 4.12 SL 3.4 L		32.0 oz/a 96.0 oz/a 0.25 % v/v 32.0 oz/a 96.0 oz/a 0.25 % v/v	BRNDWN A BRNDWN A BRNDWN A EPOST B EPOST B EPOST B		27.5 c	99.0 a	50.0 abc	99.8 a
4	GLYFOS X-TRA TACKLE AMS-XTRA NIS	4 SL 4.12 SL 3.4 L		32.0 oz/a 32.0 oz/a 96.0 oz/a 0.25 % v/v	BRNDWN A EPOST B EPOST B EPOST B		89.8 a	97.0 a	25.0 cde	99.8 a
5	GLYFOS X-TRA TACKLE AMS-XTRA NIS	4 SL 4.12 SL 3.4 L		32.0 oz/a 64.0 oz/a 96.0 oz/a 0.25 % v/v	BRNDWN A EPOST B EPOST B EPOST B		98.0 a	99.0 a	53.8 ab	100.0 a
6	GLYFOS X-TRA EXTREME AMS-XTRA NIS	4 SL 2.17 ME 3.4 L		32.0 oz/a 3.0 pt/a 96.0 oz/a 0.25 % v/v	BRNDWN A EPOST B EPOST B EPOST B		89.8 a	98.0 a	32.5 bcd	99.3 a
7	ROUNDUP W-MAX VALOR SX REFLEX NIS	5.5 SL 51 WG 2 SL		22.0 oz/a 1.0 oz/a 1.5 pt/a 0.25 % v/v	BRNDWN A BRNDWN A EPOST B EPOST B		90.8 a	67.5 b	62.5 a	36.3 b
8	ROUNDUP W-MAX TRICOR REFLEX NIS	5.5 SL 75 DG 2 SL		22.0 oz/a 5.3 oz/a 1.5 pt/a 0.25 % v/v	BRNDWN A BRNDWN A EPOST B EPOST B		93.0 a	62.5 b	57.5 ab	52.5 b
9	ROUNDUP W-MAX TRICOR	5.5 SL 75 DG		22.0 oz/a 5.3 oz/a	BRNDWN A BRNDWN A		68.8 b	66.0 b	38.8 a-d	42.5 b
LSD (P=.10)						19.68	15.89	24.47	21.41	27.03
Standard Deviation						16.27	13.13	20.23	17.69	22.34
CV						25.69	17.2	53.54	26.1	37.24
Grand Mean						63.33	76.33	37.78	67.78	60.0
Bartlett's X2						21.301	31.621	1.279	61.104	25.464
P(Bartlett's X2)						0.003*	0.001*	0.973	0.001*	0.001*
Replicate F						0.888	0.782	1.299	0.754	0.383
Replicate Prob(F)						0.4612	0.5159	0.2976	0.5309	0.7662
Treatment F						22.925	24.931	4.082	17.063	8.518
Treatment Prob(F)						0.0001	0.0001	0.0035	0.0001	0.0001

Means followed by same letter do not significantly differ ($P \geq 10$; Duncan's New MRT)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Trial ID: SB-02-10 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code

RCHSC = PUSLEY, FLORIDA / RICHARDIA SCABRA L.

Part Rated

PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)