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TAVIUM + VG FOR WEED CONTROL IN XTEND SOYBEANS			
Trial ID:	SB-07-18	Study Dir.:	HENRY MCLEAN
Location:	PONDER FARM	Investigator:	Eric P. Prostko

Reps: 4 Plots: 6 by 25 feet
 Spray vol: 15 GAL/AC Mix Size: 1.5 L (total for 4 plots; minimum=0.782 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	NTC								101	204	302	401
2	BOUNDARY	6.5	EC	24.0	oz/a	PRE	A	18.75 mL/mx	102	208	301	402
	ROUNDUP POWERMAX	5.5	SL	28.4	oz/a	POST	B	22.19 mL/mx				
	TAVIUM + VG	3.39	CS	56.5	oz/a	POST	B	44.14 mL/mx				
	INTACT			0.5	% v/v	POST	B	7.499 mL/mx				
	CLASS ACT RIDION			1.0	% v/v	POST	B	15.0 mL/mx				
3	BROADAXE XC	7	EC	20.0	oz/a	PRE	A	15.62 mL/mx	103	206	310	407
	ROUNDUP POWERMAX	5.5	SL	28.4	oz/a	POST	B	22.19 mL/mx				
	TAVIUM + VG	3.39	CS	56.5	oz/a	POST	B	44.14 mL/mx				
	INTACT			0.5	% v/v	POST	B	7.499 mL/mx				
	CLASS ACT RIDION			1.0	% v/v	POST	B	15.0 mL/mx				
4	PREFIX	5.25	EC	32.0	oz/a	PRE	A	25.0 mL/mx	104	203	309	408
	ROUNDUP POWERMAX	5.5	SL	28.4	oz/a	POST	B	22.19 mL/mx				
	TAVIUM + VG	3.39	CS	56.5	oz/a	POST	B	44.14 mL/mx				
	INTACT			0.5	% v/v	POST	B	7.499 mL/mx				
	CLASS ACT RIDION			1.0	% v/v	POST	B	15.0 mL/mx				
5	VALOR SX	51	WG	2.0	oz/a	PRE	A	1.498 g/mx	105	207	303	409
	ROUNDUP POWERMAX	5.5	SL	28.4	oz/a	POST	B	22.19 mL/mx				
	XTENDIMAX + VG	2.9	SL	22.0	oz/a	POST	B	17.19 mL/mx				
	INTACT			0.5	% v/v	POST	B	7.499 mL/mx				
	CLASS ACT RIDION			1.0	% v/v	POST	B	15.0 mL/mx				
6	ZIDUA PRO	4.09	SC	4.5	oz/a	PRE	A	3.515 mL/mx	106	202	308	410
	ROUNDUP POWERMAX	5.5	SL	28.4	oz/a	POST	B	22.19 mL/mx				
	ENGENIA	5	EC	12.8	oz/a	POST	B	9.999 mL/mx				
	INTACT			0.5	% v/v	POST	B	7.499 mL/mx				
	CLASS ACT RIDION			1.0	% v/v	POST	B	15.0 mL/mx				
7	TRICOR	4	L	8.0	oz/a	PRE	A	6.249 mL/mx	107	209	304	405
	PROWL H20	3.8	SC	32.0	oz/a	PRE	A	25.0 mL/mx				
	REFLEX	2	SL	24.0	oz/a	POST	B	18.75 mL/mx				
	2,4-DB	1.75	SL	2.0	oz/a	POST	B	1.562 mL/mx				
	NIS			0.25	% v/v	POST	B	3.75 mL/mx				
8	TRICOR	4	L	8.0	oz/a	PRE	A	6.249 mL/mx	108	210	306	404
	ROUNDUP POWERMAX	5.5	SL	32.0	oz/a	POST	B	25.0 mL/mx				
	REFLEX	2	SL	24.0	oz/a	POST	B	18.75 mL/mx				
9	TRICOR	4	L	8.0	oz/a	PRE	A	6.249 mL/mx	109	205	307	406
	ROUNDUP POWERMAX	5.5	SL	32.0	oz/a	POST	B	25.0 mL/mx				
	XTENDIMAX +VG	2.9	SL	22.0	oz/a	POST	B	17.19 mL/mx				
	WARRANT	3	SC	48.0	oz/a	POST	B	37.5 mL/mx				
	INTACT			0.5	% v/v	POST	B	7.499 mL/mx				
10	NTC								110	201	305	403

Sort Order: Treatment

Trial Comments
<p>BOUNDARY = METRIBUZIN (1.25 LBS/GAL) + S-METOLACHLOR (5.25 LBS/GAL) ZIDUA PRO = PYROXASULFONE (2.88 LBS/GAL) + IMAZETHAPYR (1.33 LBS/GAL) + SAFLUFENACIL (0.48 LBS/GAL) BROADAXE = SULFENTRAZONE (0.7 LBS/GAL) + S-METOLACHLOR (6.3 LBS/GAL) PREFIX = S-METOLACHLOR (4.34 LBS/GAL) + FOMESAFEN (0.95 LBS/GAL) TAVIUM PLUS VAPOR GRIP = S-METOLACHLOR + DICAMBA</p> <p>NIS = INDUCE</p> <p>ANNUAL GRASSES = NON-UNIFORM FIXTURE OF TEXAS PANICUM + CRABGRASS + GOOSEGRASS + CROWFOOTGRASS.</p> <p><u>**PUT INTACT THEN CLASS ACT RIDION IN SPRAY MIXTURE FIRST</u></p> <p>HARVEST DATE: OCTOBER 30, 2018 HARVEST MOISTURE: 13%</p>

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MISSING YIELD DATA IN PLOT 203 DUE TO COMBINE/OPERATOR ERROR.

SUMMARY:

- 1) AT 10 DAT, THE FOLLOWING PRE TREATMENTS CAUSED SOYBEAN STUNTING EQUAL TO OR IN EXCESS OF 10%: BROADAXE XC = 10%; PREFIX = 15%; VALOR SX = 12.5%; ZIDUA PRO = 13.8%. BUT, ONLY ZIDUA PRO CAUSED SOYBEAN STUNTING THAT LASTED THROUGHOUT THE SEASON.
- 2) GENERALLY, ROUNDUP + TAVIUM WAS MORE INJURIOUS TO SOYBEANS THAN ROUNDUP + XTENDIMAX (I.E. LEAF BURN).
- 3) ALL DICAMBA PROGRAMS (PRE + POST) PROVIDED EXCELLENT CONTROL OF PALMER AMARANTH AND ANNUAL GRASSES (95+%).
- 4) TRICOR + PROWL FB REFLEX + 2,4-DB + NIS (CONVENTIONAL SYSTEM) AND TRICOR FB ROUNDUP + REFLEX (RR SYSTEM) PROVIDED EQUIVALENT WEED CONTROL COMPARED TO ANY DICAMBA SYSTEM.
- 5) ALL HERBICIDE TREATED PLOTS HAD HIGHER YIELDS THAN THE NTC. BUT, THERE WERE NO DIFFERENCES IN SOYBEAN YIELD BETWEEN HERBICIDE TREATMENTS.

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TAVIUM + VG FOR WEED CONTROL IN XTEND SOYBEANS

Trial ID: SB-07-18 Study Dir.: HENRY MCLEAN
 Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: HENRY MCLEAN **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 PLAMER AMARANTH **2.** AGRASS TX PAN; CRAB; CROW; GOOSE

Crop 1: GLYMA SOYBEAN **Variety:** PIONEER P54A54X **Planting Date:** May-14-18
Planting Method: MONOSEM **Rate:** 156816 SEED/A **Depth:** 1.5 IN
Perennial Age: _____ **Row Spacing:** 30 IN **Seed Bed:** _____
Soil Temperature: _____ **Soil Moisture:** OPTIMUM **Emergence Date:** _____

Plot Width, Unit: 6 FT **Plot Length, Unit:** 25 FT **Reps:** 4
Site Type: _____
Tillage Type: CONVENTIONAL **Study Design:** RACOBL
Trial Initiation Comments: 500 LBS/A 5-15-30 - PREPLANT

Previous: Crops	Pesticides	Year
1. PEANUT	2017	_____

MAINTENANCE

Field Prep./Maintenance: _____

No.	Date	Treatment Name	Form	Form	Form	Rate	Rate	Unit
1.	_____	_____	_____	_____	_____	_____	_____	_____

SOIL DESCRIPTION

Texture: SAND **% OM:** 0.63 **% Sand:** 96 **% Silt:** 0 **% Clay:** 4
pH: 6.2 **CEC:** 3.0 **Soil Name:** TIFTON **Fertility Level:** GOOD

MOISTURE CONDITIONS

On: Date	Time	Amount	Unit	Type	Interval	Unit
1. May-14-18	1 HAT	0.5		IN SPRINKLER - LATERAL MOVE		_____
2. May-14-18	_____	0.02		IN RAINFALL		_____
3. May-15-18	_____	0.35		IN RAINFALL		_____
4. May-16-18	_____	0.69		IN RAINFALL		_____
5. May-17-18	_____	0.26		IN RAINFALL		_____
6. May-20-18	_____	0.1		IN RAINFALL		_____
7. May-21-18	_____	0.07		IN RAINFALL		_____
8. May-22-18	_____	0.22		IN RAINFALL		_____
9. Jun-11-18	_____	0.5		IN SPRINKLER - LATERAL MOVE		_____
10.	_____	_____		_____		_____

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

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	May-14-18	Jun-13-18	_____	_____	_____	_____
Time of Day:	11:45 AM	7:45 AM	_____	_____	_____	_____
Application Method:	BROADCAST	BROADCAST	_____	_____	_____	_____
Application Timing:	PRE	POST	_____	_____	_____	_____
Applic. Placement:	SOIL	FOLIAGE	_____	_____	_____	_____
Air Temp., Unit:	77 F	73 F	_____	_____	_____	_____
% Relative Humidity:	69	100	_____	_____	_____	_____
Wind Velocity, Unit:	3 MPH	2 MPH	_____	_____	_____	_____
Dew Presence (Y/N):	N	Y	_____	_____	_____	_____
Water Hardness:	--	--	_____	_____	_____	_____
Soil Temp., Unit:	80 F	78 F	_____	_____	_____	_____
Soil Moisture:	OPTIMUM	OPTIMUM	_____	_____	_____	_____
% Cloud Cover:	100	100	_____	_____	_____	_____

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CROP STAGE AT EACH APPLICATION							
		A	B	C	D	E	F
Crop 1	Stage: GLYMA	_____	_____	_____	_____	_____	_____
	Stage Scale:	_____	√5	_____	_____	_____	_____
	Height, Unit:	_____	12 IN	_____	_____	_____	_____

WEED STAGE AT EACH APPLICATION							
		A	B	C	D	E	F
Weed 1	Stage: AMAPA	_____	1-4"	_____	_____	_____	_____
	Stage Scale:	_____	_____	_____	_____	_____	_____
	Density, Unit:	_____	_____	_____	_____	_____	_____
Weed 2	Stage: AGRASS	_____	1-3"	_____	_____	_____	_____
	Stage Scale:	_____	_____	_____	_____	_____	_____
	Density, Unit:	_____	_____	_____	_____	_____	_____

APPLICATION EQUIPMENT							
		A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK	_____	_____	_____	_____	_____
Operating Pressure:	44	44	_____	_____	_____	_____	_____
Nozzle Type:	TTI	TTI	_____	_____	_____	_____	_____
Nozzle Size:	02	02	_____	_____	_____	_____	_____
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:	3.5	MPH	3.5 MPH	_____	_____	_____	_____
Incorporation Equip.:	_____	_____	_____	_____	_____	_____	_____
Hours to Incorp.:	_____	_____	_____	_____	_____	_____	_____
Incorp. Depth, Unit:	_____	_____	_____	_____	_____	_____	_____
Carrier:	_____	_____	_____	_____	_____	_____	_____
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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TAVIUM + VG FOR WEED CONTROL IN XTEND SOYBEANS											
Trial ID: SB-07-18		Study Dir.: HENRY MCLEAN									
Location: PONDER FARM		Investigator: Eric P. Prostko									
Weed Code			----- GLYMA CROP -	AMAPA -----	AGRASS -----	----- GLYMA CROP -	AMAPA -----	AGRASS -----			
Crop Code			STUNTING PERCENT	CONTROL PERCENT	CONTROL PERCENT	STUNTING PERCENT	CONTROL PERCENT	CONTROL PERCENT			
Part Rated			May-24-18	May-24-18	May-24-18	Jun-4-18	Jun-4-18	Jun-4-18			
Rating Data Type											
Rating Unit											
Rating Date											
Trt-Eval Interval											
PRM Data Type											
# Subsamples, Dec.											
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate	Grow Stg	Appl Code						
						1	2	3	4	5	6
1 NTC						0.0 c	0.0 b	0.0 b	0.0 a	0.0 b	0.0 b
2 BOUNDARY						6.3 abc	99.0 a	99.0 a	0.0 a	99.0 a	93.0 a
ROUNDUP POWERMAX											
TAVIUM + VG											
INTACT											
CLASS ACT RIDION											
3 BROADAXE XC						10.0 abc	99.0 a	99.0 a	0.0 a	99.0 a	96.8 a
ROUNDUP POWERMAX											
TAVIUM + VG											
INTACT											
CLASS ACT RIDION											
4 PREFIX						15.0 a	99.0 a	99.0 a	2.5 a	99.0 a	98.0 a
ROUNDUP POWERMAX											
TAVIUM + VG											
INTACT											
CLASS ACT RIDION											
5 VALOR SX						12.5 ab	99.0 a	99.0 a	0.0 a	99.0 a	99.0 a
ROUNDUP POWERMAX											
XTENDIMAX + VG											
INTACT											
CLASS ACT RIDION											
6 ZIDUA PRO						13.8 a	99.0 a	99.0 a	5.0 a	99.0 a	99.0 a
ROUNDUP POWERMAX											
ENGENIA											
INTACT											
CLASS ACT RIDION											
7 TRICOR						7.5 abc	99.0 a	99.0 a	2.5 a	99.0 a	99.0 a
PROWL H20											
REFLEX											
2,4-DB											
NIS											
8 TRICOR						2.5 bc	99.0 a	99.0 a	0.0 a	98.0 a	94.8 a
ROUNDUP POWERMAX											
REFLEX											
9 TRICOR						7.5 abc	99.0 a	98.0 a	0.0 a	99.0 a	95.8 a
ROUNDUP POWERMAX											
XTENDIMAX +VG											
WARRANT											
INTACT											
10 NTC						0.0 c	0.0 b	0.0 b	0.0 a	0.0 b	0.0 b
Tukey's HSD P=.10						10.80	.	1.39	5.85	1.39	9.01
Standard Deviation						4.90	0.00	0.63	2.65	0.63	4.09
CV						65.29	0.0	0.8	265.27	0.8	5.27
Grand Mean						7.50	79.20	79.10	1.00	79.10	77.53
Levene's F						0.973	0.00		2.444		0.88
Levene's Prob(F)						0.481	0.00*		0.032*		0.553
Replicate F						1.946	0.000	1.000	2.842	1.000	2.974
Replicate Prob(F)						0.1460	1.0000	0.4079	0.0565	0.4079	0.0493
Treatment F						4.923	0.000	17381.002	1.737	17381.002	400.579
Treatment Prob(F)						0.0006	1.0000	0.0001	0.1288	0.0001	0.0001

Means followed by same letter or symbol do not significantly differ (P=.10, Tukey's HSD)
 Missing data estimates are included in columns: Average=14,15
 Could not calculate Tukey's HSD (% mean diff) for columns 2,11,12 because error mean square = 0.

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Weed Code	-----		AMAPA	AGRASS	AMAPA	AGRASS
Crop Code	GLYMA		-----	-----	-----	-----
Part Rated	CROP -					
Rating Data Type	LEAF -		CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	BURN		PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	STUNTING		Jun-19-18	Jun-19-18	Jul-26-18	Jul-26-18
Trt-Eval Interval	PERCENT					
PRM Data Type	Jun-4-18					
# Subsamples, Dec.						
Trt Treatment	Form	Form	Rate	Grow	Appl	
No. Name	Conc	Type	Rate	Stg	Code	
			Unit			
1 NTC						7 8 9 10 11 12
2 BOUNDARY	6.5	EC	24.0 oz/a	PRE	A	0.0 b 0.0 d 0.0 b 0.0 b 0.0 b 0.0 b
ROUNDUP POWERMAX	5.5	SL	28.4 oz/a	POST	B	11.3 a 10.0 c 99.0 a 98.0 a 99.0 a 99.0 a
TAVIUM + VG	3.39	CS	56.5 oz/a	POST	B	
INTACT			0.5 % v/v	POST	B	
CLASS ACT RIDION			1.0 % v/v	POST	B	
3 BROADAXE XC	7	EC	20.0 oz/a	PRE	A	6.3 ab 13.8 b 99.0 a 98.0 a 99.0 a 99.0 a
ROUNDUP POWERMAX	5.5	SL	28.4 oz/a	POST	B	
TAVIUM + VG	3.39	CS	56.5 oz/a	POST	B	
INTACT			0.5 % v/v	POST	B	
CLASS ACT RIDION			1.0 % v/v	POST	B	
4 PREFIX	5.25	EC	32.0 oz/a	PRE	A	6.3 ab 11.3 bc 99.0 a 99.0 a 99.0 a 99.0 a
ROUNDUP POWERMAX	5.5	SL	28.4 oz/a	POST	B	
TAVIUM + VG	3.39	CS	56.5 oz/a	POST	B	
INTACT			0.5 % v/v	POST	B	
CLASS ACT RIDION			1.0 % v/v	POST	B	
5 VALOR SX	51	WG	2.0 oz/a	PRE	A	2.5 ab 0.0 d 76.5 a 99.0 a 99.0 a 99.0 a
ROUNDUP POWERMAX	5.5	SL	28.4 oz/a	POST	B	
XTENDIMAX + VG	2.9	SL	22.0 oz/a	POST	B	
INTACT			0.5 % v/v	POST	B	
CLASS ACT RIDION			1.0 % v/v	POST	B	
6 ZIDUA PRO	4.09	SC	4.5 oz/a	PRE	A	10.0 ab 0.0 d 99.0 a 99.0 a 99.0 a 99.0 a
ROUNDUP POWERMAX	5.5	SL	28.4 oz/a	POST	B	
ENGENIA	5	EC	12.8 oz/a	POST	B	
INTACT			0.5 % v/v	POST	B	
CLASS ACT RIDION			1.0 % v/v	POST	B	
7 TRICOR	4	L	8.0 oz/a	PRE	A	10.0 ab 20.0 a 99.0 a 99.0 a 99.0 a 99.0 a
PROWL H20	3.8	SC	32.0 oz/a	PRE	A	
REFLEX	2	SL	24.0 oz/a	POST	B	
2,4-DB	1.75	SL	2.0 oz/a	POST	B	
NIS			0.25 % v/v	POST	B	
8 TRICOR	4	L	8.0 oz/a	PRE	A	2.5 ab 17.5 a 99.0 a 99.0 a 99.0 a 99.0 a
ROUNDUP POWERMAX	5.5	SL	32.0 oz/a	POST	B	
REFLEX	2	SL	24.0 oz/a	POST	B	
9 TRICOR	4	L	8.0 oz/a	PRE	A	2.5 ab 0.0 d 99.0 a 99.0 a 99.0 a 99.0 a
ROUNDUP POWERMAX	5.5	SL	32.0 oz/a	POST	B	
XTENDIMAX +VG	2.9	SL	22.0 oz/a	POST	B	
WARRANT	3	SC	48.0 oz/a	POST	B	
INTACT			0.5 % v/v	POST	B	
10 NTC						0.0 b 0.0 d 0.0 b 0.0 b 0.0 b 0.0 b
Tukey's HSD P=.10						11.06 3.00 31.37 1.86 . .
Standard Deviation						5.02 1.36 14.23 0.84 0.00 0.00
CV						97.88 18.77 18.49 1.07 0.0 0.0
Grand Mean						5.13 7.25 76.95 79.00 79.20 79.20
Levene's F						0.964 2.444 0.00 0.00 0.00
Levene's Prob(F)						0.488 0.032* 0.00* 0.00* 0.00*
Replicate F						2.674 2.250 1.000 2.250 0.000 0.000
Replicate Prob(F)						0.0673 0.1053 0.4079 0.1053 1.0000 1.0000
Treatment F						2.840 143.100 33.462 9752.501 0.000 0.000
Treatment Prob(F)						0.0172 0.0001 0.0001 0.0001 1.0000 1.0000

Means followed by same letter or symbol do not significantly differ (P=.10, Tukey's HSD)
 Missing data estimates are included in columns: Average=14,15
 Could not calculate Tukey's HSD (% mean diff) for columns 2,11,12 because error mean square = 0.

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							----- GLYMA CROP - STUNTING PERCENT Jul-26-18 73 DA-A	----- GLYMA PLOT - YIELD LBS/PLOT Oct-30-18	----- GLYMA PLOT - YIELD BU/A Oct-30-18 TY1 - 1
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Stg	Appl Code	13	14	15
1	NTC						0.0 b	0.0 b	0.0 b
2	BOUNDARY	6.5	EC	24.0 oz/a	PRE	A	2.5 ab	7.8 a	37.8 a
	ROUNDUP POWERMAX	5.5	SL	28.4 oz/a	POST	B			
	TAVIUM + VG	3.39	CS	56.5 oz/a	POST	B			
	INTACT			0.5 % v/v	POST	B			
	CLASS ACT RIDION			1.0 % v/v	POST	B			
3	BROADAXE XC	7	EC	20.0 oz/a	PRE	A	2.5 ab	9.1 a	44.2 a
	ROUNDUP POWERMAX	5.5	SL	28.4 oz/a	POST	B			
	TAVIUM + VG	3.39	CS	56.5 oz/a	POST	B			
	INTACT			0.5 % v/v	POST	B			
	CLASS ACT RIDION			1.0 % v/v	POST	B			
4	PREFIX	5.25	EC	32.0 oz/a	PRE	A	7.5 ab	9.1 a	44.2 a
	ROUNDUP POWERMAX	5.5	SL	28.4 oz/a	POST	B			
	TAVIUM + VG	3.39	CS	56.5 oz/a	POST	B			
	INTACT			0.5 % v/v	POST	B			
	CLASS ACT RIDION			1.0 % v/v	POST	B			
5	VALOR SX	51	WG	2.0 oz/a	PRE	A	0.0 b	10.0 a	48.3 a
	ROUNDUP POWERMAX	5.5	SL	28.4 oz/a	POST	B			
	XTENDIMAX + VG	2.9	SL	22.0 oz/a	POST	B			
	INTACT			0.5 % v/v	POST	B			
	CLASS ACT RIDION			1.0 % v/v	POST	B			
6	ZIDUA PRO	4.09	SC	4.5 oz/a	PRE	A	10.0 a	8.2 a	39.6 a
	ROUNDUP POWERMAX	5.5	SL	28.4 oz/a	POST	B			
	ENGENIA	5	EC	12.8 oz/a	POST	B			
	INTACT			0.5 % v/v	POST	B			
	CLASS ACT RIDION			1.0 % v/v	POST	B			
7	TRICOR	4	L	8.0 oz/a	PRE	A	0.0 b	9.8 a	47.2 a
	PROWL H20	3.8	SC	32.0 oz/a	PRE	A			
	REFLEX	2	SL	24.0 oz/a	POST	B			
	2,4-DB	1.75	SL	2.0 oz/a	POST	B			
	NIS			0.25 % v/v	POST	B			
8	TRICOR	4	L	8.0 oz/a	PRE	A	0.0 b	9.8 a	47.2 a
	ROUNDUP POWERMAX	5.5	SL	32.0 oz/a	POST	B			
	REFLEX	2	SL	24.0 oz/a	POST	B			
9	TRICOR	4	L	8.0 oz/a	PRE	A	0.0 b	9.4 a	45.4 a
	ROUNDUP POWERMAX	5.5	SL	32.0 oz/a	POST	B			
	XTENDIMAX +VG	2.9	SL	22.0 oz/a	POST	B			
	WARRANT	3	SC	48.0 oz/a	POST	B			
	INTACT			0.5 % v/v	POST	B			
10	NTC						0.0 b	0.0 b	0.0 b
Tukey's HSD P=.10							9.46	2.39	11.55
Standard Deviation							4.29	1.08	5.23
CV							190.78	14.77	14.77
Grand Mean							2.25	7.31	35.37
Levene's F							2.59	1.719	1.719
Levene's Prob(F)							0.024*	0.13	0.13
Replicate F							2.307	1.283	1.283
Replicate Prob(F)							0.0992	0.3011	0.3011
Treatment F							2.849	52.517	52.517
Treatment Prob(F)							0.0169	0.0001	0.0001

Means followed by same letter or symbol do not significantly differ (P=.10, Tukey's HSD)
 Missing data estimates are included in columns: Average=14,15
 Could not calculate Tukey's HSD (% mean diff) for columns 2,11,12 because error mean square = 0.

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TAVIUM + VG FOR WEED CONTROL IN XTEND SOYBEANS

Trial ID: SB-07-18 Study Dir.: HENRY MCLEAN
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code

AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.

Part Rated

LEAF = LEAF / FOLIAGE

PRM Data Type

TY1 = 4.84*[14]

University of Georgia

TAVIUM + VG FOR WEED CONTROL IN XTEND SOYBEANS										
Trial ID: SB-07-18		Study Dir.: HENRY MCLEAN								
Location: PONDER FARM		Investigator: Eric P. Prostko								
Weed Code					----- GLYMA CROP -	AMAPA -----	AGRASS -----	----- GLYMA CROP -	AMAPA -----	
Crop Code					STUNTING PERCENT	CONTROL PERCENT	CONTROL PERCENT	STUNTING PERCENT	CONTROL PERCENT	
Part Rated					May-24-18	May-24-18	May-24-18	Jun-4-18	Jun-4-18	
Rating Data Type										
Rating Unit										
Rating Date										
Trt-Eval Interval										
PRM Data Type										
# Subsamples, Dec.										
Trt Treatment	Form	Form	Rate	Grow	Appl	1	2	3	4	5
No. Name	Conc	Type	Rate Unit	Stg	Code Plot					
1 NTC					101	0.0	0.0	0.0	0.0	0.0
					204	0.0	0.0	0.0	0.0	0.0
					302	0.0	0.0	0.0	0.0	0.0
					401	0.0	0.0	0.0	0.0	0.0
					Mean =	0.0	0.0	0.0	0.0	0.0
2 BOUNDARY	6.5	EC	24.0 oz/a	PRE	A 102	0.0	99.0	99.0	0.0	99.0
ROUNDUP POWERMAX	5.5	SL	28.4 oz/a	POST	B 208	10.0	99.0	99.0	0.0	99.0
TAVIUM + VG	3.39	CS	56.5 oz/a	POST	B 301	15.0	99.0	99.0	0.0	99.0
INTACT			0.5 % v/v	POST	B 402	0.0	99.0	99.0	0.0	99.0
CLASS ACT RIDION			1.0 % v/v	POST	B					
					Mean =	6.3	99.0	99.0	0.0	99.0
3 BROADAXE XC	7	EC	20.0 oz/a	PRE	A 103	20.0	99.0	99.0	0.0	99.0
ROUNDUP POWERMAX	5.5	SL	28.4 oz/a	POST	B 206	10.0	99.0	99.0	0.0	99.0
TAVIUM + VG	3.39	CS	56.5 oz/a	POST	B 310	0.0	99.0	99.0	0.0	99.0
INTACT			0.5 % v/v	POST	B 407	10.0	99.0	99.0	0.0	99.0
CLASS ACT RIDION			1.0 % v/v	POST	B					
					Mean =	10.0	99.0	99.0	0.0	99.0
4 PREFIX	5.25	EC	32.0 oz/a	PRE	A 104	20.0	99.0	99.0	0.0	99.0
ROUNDUP POWERMAX	5.5	SL	28.4 oz/a	POST	B 203	15.0	99.0	99.0	10.0	99.0
TAVIUM + VG	3.39	CS	56.5 oz/a	POST	B 309	10.0	99.0	99.0	0.0	99.0
INTACT			0.5 % v/v	POST	B 408	15.0	99.0	99.0	0.0	99.0
CLASS ACT RIDION			1.0 % v/v	POST	B					
					Mean =	15.0	99.0	99.0	2.5	99.0
5 VALOR SX	51	WG	2.0 oz/a	PRE	A 105	20.0	99.0	99.0	0.0	99.0
ROUNDUP POWERMAX	5.5	SL	28.4 oz/a	POST	B 207	10.0	99.0	99.0	0.0	99.0
XTENDIMAX + VG	2.9	SL	22.0 oz/a	POST	B 303	10.0	99.0	99.0	0.0	99.0
INTACT			0.5 % v/v	POST	B 409	10.0	99.0	99.0	0.0	99.0
CLASS ACT RIDION			1.0 % v/v	POST	B					
					Mean =	12.5	99.0	99.0	0.0	99.0
6 ZIDUA PRO	4.09	SC	4.5 oz/a	PRE	A 106	15.0	99.0	99.0	10.0	99.0
ROUNDUP POWERMAX	5.5	SL	28.4 oz/a	POST	B 202	10.0	99.0	99.0	10.0	99.0
ENGENIA	5	EC	12.8 oz/a	POST	B 308	20.0	99.0	99.0	0.0	99.0
INTACT			0.5 % v/v	POST	B 410	10.0	99.0	99.0	0.0	99.0
CLASS ACT RIDION			1.0 % v/v	POST	B					
					Mean =	13.8	99.0	99.0	5.0	99.0
7 TRICOR	4	L	8.0 oz/a	PRE	A 107	10.0	99.0	99.0	0.0	99.0
PROWL H20	3.8	SC	32.0 oz/a	PRE	A 209	0.0	99.0	99.0	10.0	99.0
REFLEX	2	SL	24.0 oz/a	POST	B 304	10.0	99.0	99.0	0.0	99.0
2,4-DB	1.75	SL	2.0 oz/a	POST	B 405	10.0	99.0	99.0	0.0	99.0
NIS			0.25 % v/v	POST	B					
					Mean =	7.5	99.0	99.0	2.5	99.0
8 TRICOR	4	L	8.0 oz/a	PRE	A 108	10.0	99.0	99.0	0.0	99.0
ROUNDUP POWERMAX	5.5	SL	32.0 oz/a	POST	B 210	0.0	99.0	99.0	0.0	99.0
REFLEX	2	SL	24.0 oz/a	POST	B 306	0.0	99.0	99.0	0.0	95.0
					404	0.0	99.0	99.0	0.0	99.0
					Mean =	2.5	99.0	99.0	0.0	98.0
9 TRICOR	4	L	8.0 oz/a	PRE	A 109	10.0	99.0	99.0	0.0	99.0
ROUNDUP POWERMAX	5.5	SL	32.0 oz/a	POST	B 205	10.0	99.0	99.0	0.0	99.0
XTENDIMAX +VG	2.9	SL	22.0 oz/a	POST	B 307	10.0	99.0	95.0	0.0	99.0
WARRANT	3	SC	48.0 oz/a	POST	B 406	0.0	99.0	99.0	0.0	99.0
INTACT			0.5 % v/v	POST	B					
					Mean =	7.5	99.0	98.0	0.0	99.0
10 NTC					110	0.0	0.0	0.0	0.0	0.0
					201	0.0	0.0	0.0	0.0	0.0
					305	0.0	0.0	0.0	0.0	0.0
					403	0.0	0.0	0.0	0.0	0.0
					Mean =	0.0	0.0	0.0	0.0	0.0

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date Trt-Eval Interval PRM Data Type # Subsamples, Dec.						AGRASS ----- CONTROL PERCENT Jun-4-18	----- GLYMA CROP - STUNTING PERCENT Jun-4-18	----- GLYMA LEAF - BURN PERCENT Jun-19-18	AMAPA ----- CONTROL PERCENT Jun-19-18	AGRASS ----- CONTROL PERCENT Jun-19-18
Trt Treatment No. Name	Form Form Conc Type	Rate Rate Unit	Grow Stg	Appl Code	Plot	6	7	8	9	10
1 NTC					101	0.0	0.0	0.0	0.0	0.0
					204	0.0	0.0	0.0	0.0	0.0
					302	0.0	0.0	0.0	0.0	0.0
					401	0.0	0.0	0.0	0.0	0.0
					Mean =	0.0	0.0	0.0	0.0	0.0
2 BOUNDARY	6.5 EC	24.0 oz/a	PRE	A	102	75.0	5.0	10.0	99.0	95.0
ROUNDUP POWERMAX	5.5 SL	28.4 oz/a	POST	B	208	99.0	10.0	10.0	99.0	99.0
TAVIUM + VG	3.39 CS	56.5 oz/a	POST	B	301	99.0	20.0	10.0	99.0	99.0
INTACT		0.5 % v/v	POST	B	402	99.0	10.0	10.0	99.0	99.0
CLASS ACT RIDION		1.0 % v/v	POST	B						
					Mean =	93.0	11.3	10.0	99.0	98.0
3 BROADAXE XC	7 EC	20.0 oz/a	PRE	A	103	90.0	5.0	10.0	99.0	95.0
ROUNDUP POWERMAX	5.5 SL	28.4 oz/a	POST	B	206	99.0	10.0	15.0	99.0	99.0
TAVIUM + VG	3.39 CS	56.5 oz/a	POST	B	310	99.0	0.0	15.0	99.0	99.0
INTACT		0.5 % v/v	POST	B	407	99.0	10.0	15.0	99.0	99.0
CLASS ACT RIDION		1.0 % v/v	POST	B						
					Mean =	96.8	6.3	13.8	99.0	98.0
4 PREFIX	5.25 EC	32.0 oz/a	PRE	A	104	95.0	5.0	10.0	99.0	99.0
ROUNDUP POWERMAX	5.5 SL	28.4 oz/a	POST	B	203	99.0	20.0	10.0	99.0	99.0
TAVIUM + VG	3.39 CS	56.5 oz/a	POST	B	309	99.0	0.0	15.0	99.0	99.0
INTACT		0.5 % v/v	POST	B	408	99.0	0.0	10.0	99.0	99.0
CLASS ACT RIDION		1.0 % v/v	POST	B						
					Mean =	98.0	6.3	11.3	99.0	99.0
5 VALOR SX	51 WG	2.0 oz/a	PRE	A	105	99.0	0.0	0.0	99.0	99.0
ROUNDUP POWERMAX	5.5 SL	28.4 oz/a	POST	B	207	99.0	10.0	0.0	99.0	99.0
XTENDIMAX + VG	2.9 SL	22.0 oz/a	POST	B	303	99.0	0.0	0.0	9.0	99.0
INTACT		0.5 % v/v	POST	B	409	99.0	0.0	0.0	99.0	99.0
CLASS ACT RIDION		1.0 % v/v	POST	B						
					Mean =	99.0	2.5	0.0	76.5	99.0
6 ZIDUA PRO	4.09 SC	4.5 oz/a	PRE	A	106	99.0	10.0	0.0	99.0	99.0
ROUNDUP POWERMAX	5.5 SL	28.4 oz/a	POST	B	202	99.0	20.0	0.0	99.0	99.0
ENGENIA	5 EC	12.8 oz/a	POST	B	308	99.0	10.0	0.0	99.0	99.0
INTACT		0.5 % v/v	POST	B	410	99.0	0.0	0.0	99.0	99.0
CLASS ACT RIDION		1.0 % v/v	POST	B						
					Mean =	99.0	10.0	0.0	99.0	99.0
7 TRICOR	4 L	8.0 oz/a	PRE	A	107	99.0	10.0	20.0	99.0	99.0
PROWL H20	3.8 SC	32.0 oz/a	PRE	A	209	99.0	10.0	20.0	99.0	99.0
REFLEX	2 SL	24.0 oz/a	POST	B	304	99.0	10.0	20.0	99.0	99.0
2,4-DB	1.75 SL	2.0 oz/a	POST	B	405	99.0	10.0	20.0	99.0	99.0
NIS		0.25 % v/v	POST	B						
					Mean =	99.0	10.0	20.0	99.0	99.0
8 TRICOR	4 L	8.0 oz/a	PRE	A	108	95.0	0.0	15.0	99.0	99.0
ROUNDUP POWERMAX	5.5 SL	32.0 oz/a	POST	B	210	90.0	0.0	15.0	99.0	99.0
REFLEX	2 SL	24.0 oz/a	POST	B	306	99.0	0.0	20.0	99.0	99.0
					404	95.0	10.0	20.0	99.0	99.0
					Mean =	94.8	2.5	17.5	99.0	99.0
9 TRICOR	4 L	8.0 oz/a	PRE	A	109	90.0	0.0	0.0	99.0	99.0
ROUNDUP POWERMAX	5.5 SL	32.0 oz/a	POST	B	205	99.0	10.0	0.0	99.0	99.0
XTENDIMAX +VG	2.9 SL	22.0 oz/a	POST	B	307	95.0	0.0	0.0	99.0	99.0
WARRANT	3 SC	48.0 oz/a	POST	B	406	99.0	0.0	0.0	99.0	99.0
INTACT		0.5 % v/v	POST	B						
					Mean =	95.8	2.5	0.0	99.0	99.0
10 NTC					110	0.0	0.0	0.0	0.0	0.0
					201	0.0	0.0	0.0	0.0	0.0
					305	0.0	0.0	0.0	0.0	0.0
					403	0.0	0.0	0.0	0.0	0.0
					Mean =	0.0	0.0	0.0	0.0	0.0

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date Trt-Eval Interval PRM Data Type # Subsamples, Dec.						AMAPA ----- CONTROL PERCENT Jul-26-18	AGRASS ----- CONTROL PERCENT Jul-26-18	----- GLYMA CROP - STUNTING PERCENT Jul-26-18 73 DA-A	----- GLYMA PLOT - YIELD LBS/PLOT Oct-30-18	----- GLYMA PLOT - YIELD BU/A Oct-30-18			
									- 1	TY1 - 1			
Trt	Treatment	Form	Form	Rate	Grow	Appl							
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	11	12	13	14	15
1	NTC							101	0.0	0.0	0.0	0.0	0.0
								204	0.0	0.0	0.0	0.0	0.0
								302	0.0	0.0	0.0	0.0	0.0
								401	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0
2	BOUNDARY	6.5	EC	24.0	oz/a	PRE	A	102	99.0	99.0	0.0	6.9	33.4
	ROUNDUP POWERMAX	5.5	SL	28.4	oz/a	POST	B	208	99.0	99.0	0.0	9.7	46.9
	TAVIUM + VG	3.39	CS	56.5	oz/a	POST	B	301	99.0	99.0	10.0	6.2	30.0
	INTACT			0.5	% v/v	POST	B	402	99.0	99.0	0.0	8.4	40.7
	CLASS ACT RIDION			1.0	% v/v	POST	B						
								Mean =	99.0	99.0	2.5	7.8	37.8
3	BROADAXE XC	7	EC	20.0	oz/a	PRE	A	103	99.0	99.0	0.0	8.9	43.1
	ROUNDUP POWERMAX	5.5	SL	28.4	oz/a	POST	B	206	99.0	99.0	10.0	7.6	36.8
	TAVIUM + VG	3.39	CS	56.5	oz/a	POST	B	310	99.0	99.0	0.0	9.3	45.0
	INTACT			0.5	% v/v	POST	B	407	99.0	99.0	0.0	10.7	51.8
	CLASS ACT RIDION			1.0	% v/v	POST	B						
								Mean =	99.0	99.0	2.5	9.1	44.2
4	PREFIX	5.25	EC	32.0	oz/a	PRE	A	104	99.0	99.0	10.0	7.5	36.3
	ROUNDUP POWERMAX	5.5	SL	28.4	oz/a	POST	B	203	99.0	99.0	20.0	.	.
	TAVIUM + VG	3.39	CS	56.5	oz/a	POST	B	309	99.0	99.0	0.0	10.3	49.9
	INTACT			0.5	% v/v	POST	B	408	99.0	99.0	0.0	9.6	46.5
	CLASS ACT RIDION			1.0	% v/v	POST	B						
								Mean =	99.0	99.0	7.5	9.1	44.2
5	VALOR SX	51	WG	2.0	oz/a	PRE	A	105	99.0	99.0	0.0	9.9	47.9
	ROUNDUP POWERMAX	5.5	SL	28.4	oz/a	POST	B	207	99.0	99.0	0.0	11.0	53.2
	XTENDIMAX + VG	2.9	SL	22.0	oz/a	POST	B	303	99.0	99.0	0.0	8.1	39.2
	INTACT			0.5	% v/v	POST	B	409	99.0	99.0	0.0	10.9	52.8
	CLASS ACT RIDION			1.0	% v/v	POST	B						
								Mean =	99.0	99.0	0.0	10.0	48.3
6	ZIDUA PRO	4.09	SC	4.5	oz/a	PRE	A	106	99.0	99.0	10.0	7.6	36.8
	ROUNDUP POWERMAX	5.5	SL	28.4	oz/a	POST	B	202	99.0	99.0	20.0	6.9	33.4
	ENGENIA	5	EC	12.8	oz/a	POST	B	308	99.0	99.0	10.0	9.9	47.9
	INTACT			0.5	% v/v	POST	B	410	99.0	99.0	0.0	8.3	40.2
	CLASS ACT RIDION			1.0	% v/v	POST	B						
								Mean =	99.0	99.0	10.0	8.2	39.6
7	TRICOR	4	L	8.0	oz/a	PRE	A	107	99.0	99.0	0.0	9.7	46.9
	PROWL H20	3.8	SC	32.0	oz/a	PRE	A	209	99.0	99.0	0.0	10.8	52.3
	REFLEX	2	SL	24.0	oz/a	POST	B	304	99.0	99.0	0.0	8.6	41.6
	2,4-DB	1.75	SL	2.0	oz/a	POST	B	405	99.0	99.0	0.0	9.9	47.9
	NIS			0.25	% v/v	POST	B						
								Mean =	99.0	99.0	0.0	9.8	47.2
8	TRICOR	4	L	8.0	oz/a	PRE	A	108	99.0	99.0	0.0	10.3	49.9
	ROUNDUP POWERMAX	5.5	SL	32.0	oz/a	POST	B	210	99.0	99.0	0.0	10.2	49.4
	REFLEX	2	SL	24.0	oz/a	POST	B	306	99.0	99.0	0.0	8.6	41.6
								404	99.0	99.0	0.0	9.9	47.9
								Mean =	99.0	99.0	0.0	9.8	47.2
9	TRICOR	4	L	8.0	oz/a	PRE	A	109	99.0	99.0	0.0	10.0	48.4
	ROUNDUP POWERMAX	5.5	SL	32.0	oz/a	POST	B	205	99.0	99.0	0.0	8.3	40.2
	XTENDIMAX +VG	2.9	SL	22.0	oz/a	POST	B	307	99.0	99.0	0.0	8.6	41.6
	WARRANT	3	SC	48.0	oz/a	POST	B	406	99.0	99.0	0.0	10.6	51.3
	INTACT			0.5	% v/v	POST	B						
								Mean =	99.0	99.0	0.0	9.4	45.4
10	NTC							110	0.0	0.0	0.0	0.0	0.0
								201	0.0	0.0	0.0	0.0	0.0
								305	0.0	0.0	0.0	0.0	0.0
								403	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0

University of Georgia

TAVIUM + VG FOR WEED CONTROL IN XTEND SOYBEANS

Trial ID: SB-07-18 Study Dir.: HENRY MCLEAN
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code

AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.

Part Rated

LEAF = LEAF / FOLIAGE

PRM Data Type

TY1 = 4.84*[14]