

# University of Georgia

## PHY485WRF response to Ignite mixtures.

Trial ID: C31-07  
 Location: Attapulgus

Study Dir.: Stanley Culpepper  
 Investigator: Stanley Culpepper

Reps: 4                      Plots: 12 by 25 feet  
 Spray vol: 14.8 gal/ac      Mix size: 2 liters (min 1.5434)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code	Amt to Measure	Product	Plot No. By Rep			
											1	2	3	4
1	PHY485WRF										101	204	302	404
	Ignite	2.34	L		29	OZ/A	POT-3lf	A	30.62 ml/mx					
	Ignite	2.34	L		29	OZ/A	POT+ 14d	B	30.62 ml/mx					
2	PHY485WRF										102	207	307	409
	Ignite	2.34	L		29	OZ/A	POT+ 14d	B	30.62 ml/mx					
	Ignite	2.34	L		29	OZ/A	POT+ 28d	C	30.62 ml/mx					
3	PHY485WRF										109	206	305	407
	WeatherMax	4.5	L		22	OZ/A	POT-3lf	A	23.23 ml/mx					
	WeatherMax	4.5	L		22	OZ/A	POT+ 14d	B	23.23 ml/mx					
4	PHY485WRF										104	210	309	405
	Ignite	2.34	L		29	OZ/A	POT	A	30.62 ml/mx					
	WeatherMax	4.5	L		22	OZ/A	POT+ 14d	B	23.23 ml/mx					
5	PHY485WRF										105	209	306	401
	WeatherMax	4.5	L		22	OZ/A	POT	A	23.23 ml/mx					
	Ignite	2.34	L		29	OZ/A	POT+ 14d	B	30.62 ml/mx					
6	PHY485WRF										106	201	310	406
	Ignite	2.34	L		29	OZ/A	POT	A	30.62 ml/mx					
	Staple	3.2	L		1.7	OZ/A	POT	A	1.795 ml/mx					
	WeatherMax	4.5	L		22	OZ/A	POT+ 14d	B	23.23 ml/mx					
7	PHY485WRF										107	205	301	402
	Ignite	2.34	L		29	OZ/A	POT	A	30.62 ml/mx					
	Dual Magnum	7.64	L		16	OZ/A	POT	A	16.89 ml/mx					
	WeatherMax	4.5	L		22	OZ/A	POT+ 14d	B	23.23 ml/mx					
8	FM 955 LLB2										103	208	303	408
	Ignite	2.34	L		29	OZ/A	POT-3lf	A	30.62 ml/mx					
	Ignite	2.34	L		29	OZ/A	POT+ 14d	B	30.62 ml/mx					
9	FM 955 LLB2										108	203	308	403
	Ignite	2.34	L		29	OZ/A	POT+ 14d	B	30.62 ml/mx					
	Ignite	2.34	L		29	OZ/A	POT+ 28d	C	30.62 ml/mx					
10	Non-treated										110	202	304	410

Sort Order: Treatment

Product quantities required for listed treatments and applications in one trial:

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
459.249	ml	Ignite	2.34	L	
174.198	ml	WeatherMax	4.5	L	
2.243	ml	Staple	3.2	L	
21.115	ml	Dual Magnum	7.64	L	

\* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 2 liters (mix size basis).  
 \* Product amount calculations increased 25 % for overage adjustment.

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Trial ID: C31-07

Study Dir.: Stanley Culpepper

Location: Attapulcus

Investigator: Stanley Culpepper

### Trial Comments

OBJECTIVE: Determine Widestrike Tolerance to Ignite Applied Topically.

#### COTTON RESPONSE:

1. Ignite applied overtop of 3 leaf cotton caused 14 to 15% visual chlorosis. The addition of Staple with Ignite did not increase injury. Dual mixed with Ignite did increase injury by 5 to 6%. Glyphosate caused less than 2% injury.
2. Six leaf cotton was injured 17% by Ignite. This application following the 3 leaf application only injured cotton 19%.
3. Little injury was noted with the Ignite application to 11 leaf cotton.
4. Cotton recovered very quickly from all treatments.

#### SEED COTTON:

1. The non-treated control was maintained weed free. Yield of Widestrike cotton was not impacted by Ignite.
2. Culpepper screwed up and allowed the research farm to overspray the trial with glyphosate to maintain it weed free thereby destroying the potential yield from the FiberMax cultivars.

May 11: PRE broadcast applications of Prowl H2O 1qt/A and Cotoran 1 qt/A.

July 15: Broadcast application of glyphosate over trial area.

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Weed Code	INJURY COTTON	INJURY COTTON	INJURY COTTON	INJURY COTTON	INJURY COTTON	SEED COTTON	SEED COTTON			
Crop Code	COTTON	COTTON	COTTON	COTTON	COTTON	COTTON	COTTON			
Rating Data Type	%	%	%	%	%	Yield	Yield			
Rating Unit	control	control	control	control	control	lb/plot	lb/A			
Rating Date	Jun-02-07	Jun-10-07	Jun-16-07	Jun-24-07	Jul-02-07	Oct-09-07	Oct-09-07			
Trt-Eval Interval	5 DA-A	13 DA-A	19 DA-A	27 DA-A	35 DA-A					
ARM Action Codes							TY1			
# Subsamples, Dec.							1			
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7
1	PHY485WRF Ignite	29	OZ/A	14 b	6 b	19 a	9 a	1 a	10 a	2978.1 a
	Ignite	29	OZ/A							
2	PHY485WRF Ignite	29	OZ/A	0 c	0 e	17 a	6 ab	0 a	11 a	3264.1 a
	Ignite	29	OZ/A							
3	PHY485WRF WeatherMax	22	OZ/A	2 c	0 e	3 d	0 c	0 a	11 a	3298.2 a
	WeatherMax	22	OZ/A							
4	PHY485WRF Ignite	29	OZ/A	15 b	5 bc	7 c	4 bc	0 a	11 a	3142.1 a
	WeatherMax	22	OZ/A							
5	PHY485WRF WeatherMax	22	OZ/A	1 c	1 de	15 b	3 bc	0 a	11 a	3319.3 a
	Ignite	29	OZ/A							
6	PHY485WRF Ignite	29	OZ/A	14 b	4 bcd	8 c	4 bc	0 a	10 a	2954.8 a
	Staple	1.7	OZ/A							
	WeatherMax	22	OZ/A							
7	PHY485WRF Ignite	29	OZ/A	21 a	10 a	8 c	6 ab	0 a	11 a	3059.4 a
	Dual Magnum	16	OZ/A							
	WeatherMax	22	OZ/A							
8	FM 955 LLB2 Ignite	29	OZ/A	0 c	3 cde	0 e	0 c	0 a		
	Ignite	29	OZ/A							
9	FM 955 LLB2 Ignite	29	OZ/A	1 c	0 e	0 e	0 c	0 a		
	Ignite	29	OZ/A							
10	Non-treated			0 c	0 e	0 e	0 c	0 a	10 a	3036.1 a
LSD (P=.05)				2.8	3.1	2.1	3.8	1.1	1.4	411.94
Standard Deviation				1.9	2.1	1.4	2.7	0.8	1.0	280.08
CV				28.76	73.82	18.68	82.9	632.46	8.94	8.94
Bartlett's X2				4.225	4.933	0.551	5.819	0.0	17.566	17.566
P(Bartlett's X2)				0.646	0.294	0.968	0.324	.	0.014*	0.014*

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Column 7: TY1 = 290.4\*[C6]



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No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.							

**SOIL DESCRIPTION**

% Sand: 84      % OM: 1.3      Texture: loamy sand  
 % Silt: 8      pH: 6.0      Soil Name: \_\_\_\_\_  
 % Clay: 8      CEC: \_\_\_\_\_      Fert. Level: \_\_\_\_\_

**ADDITIONAL MEASURED ELEMENTS**

Element	Quantity	Unit

**MOISTURE CONDITIONS**

No.	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: irrigated

Closest Weather Station: \_\_\_\_\_ Distance: \_\_\_\_\_ Unit: \_\_

**APPLICATION DESCRIPTION**

	A	B	C
Application Date:	May-28-07	Jun-10-07	Jun-24-07
Time of Day:	7:30 am	8:30 am	8:00 am
Application Method:	broadcast	broadcast	broadcast
Application Timing:	POT-3leaf	POT+14D	POT+28D
Applic. Placement:	overtop	overtop	overtop
Air Temp., Unit:	74 F	87 F	83 F
% Relative Humidity:	66	50	45
Wind Velocity, Unit:	0 mph	0 mph	0 mph
Dew Presence (Y/N):	N	N	Y
Water Hardness:			
Soil Temp., Unit:	74 F	85 F	85 F
Soil Moisture:	fair	moist	moist
% Cloud Cover:	0	0	40

**CROP STAGE AT EACH APPLICATION**

	A	B	C
Crop 1 Code, Stage:	GOSHI POT	GOSHI +14d	GOSHI +28d
Stage Scale:	2 leaf	6 leaf	11 leaf
Height, Unit:	3 in	8 in	15 in

**WEED STAGE AT EACH APPLICATION**

	A	B	C
Weed 1 Code, Stage:	.		
Stage Scale:	.		
Density, Unit:	.		

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## APPLICATION EQUIPMENT

	A	B	C
<b>Appl. Equipment:</b>	backpack	backpack	backpack
<b>Operating Pressure:</b>	24	24	24
<b>Nozzle Type:</b>	flat fan	flat fan	flat fan
<b>Nozzle Size:</b>	11002	11002	11002
<b>Nozzle Spacing, Unit:</b>	18 in	18 in	18 in
<b>Nozzles/Row:</b>	2	2	2
<b>Band Width, Unit:</b>			
<b>Boom Length, Unit:</b>	4.5 ft	4.5 ft	4.5 ft
<b>Boom Height, Unit:</b>	15 in	15 in	15 in
<b>Ground Speed, Unit:</b>	3 mph	3 mph	3 mph
<b>Incorporation Equip.:</b>			
<b>Hours to Incorp.:</b>			
<b>Incorp. Depth, Unit:</b>			
<b>Carrier:</b>	water	water	water
<b>Spray Volume, Unit:</b>	15 GPA	15 GPA	15 GPA
<b>Spray pH:</b>			
<b>Propellant:</b>	CO2	CO2	CO2
<b>Tank Mix (Y/N):</b>	Y	Y	Y

Trt No	Treatment Application Comment