

University of Georgia

LL cotton response to Staple + Ignite alone or mixed with Warrant/Dual Magnum.

Trial ID: C45-11
Location: Attapulcus

Study Dir.: Stanley Culpepper
Investigator: Stanley Culpepper

Use 1 liters(s) per treatment mixture to spray 14.8 gal/ac

Plots: 6 by 25 feet

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No.	By Rep	1	2	3	4
1	Direx	4	L	1.5	pt/a	PRE	A	12.67 ml/mx	101	205	304	407		
	Ignite	2.34	L	29	oz/a	2lf/2"AM	B	15.31 ml/mx						
	Ignite	2.34	L	43	oz/a	28 d EP	C	22.7 ml/mx						
	Direx	4	L	2	pt/a	28 d EP	C	16.89 ml/mx						
2	Direx	4	L	1.5	pt/a	PRE	A	12.67 ml/mx	102	207	301	406		
	Ignite	2.34	L	29	oz/a	2lf/2"AM	B	15.31 ml/mx						
	Staple LX	3.2	L	1.7	oz/a	2lf/2"AM	B	0.8973 ml/mx						
	Ignite	2.34	L	43	oz/a	28 d EP	C	22.7 ml/mx						
	Direx	4	L	2	pt/a	28 d EP	C	16.89 ml/mx						
3	Direx	4	L	1.5	pt/a	PRE	A	12.67 ml/mx	103	208	309	404		
	Ignite	2.34	L	29	oz/a	2lf/2"AM	B	15.31 ml/mx						
	Staple LX	3.2	L	2.7	oz/a	2lf/2"AM	B	1.425 ml/mx						
	Ignite	2.34	L	43	oz/a	28 d EP	C	22.7 ml/mx						
	Direx	4	L	2	pt/a	28 d EP	C	16.89 ml/mx						
4	Direx	4	L	1.5	pt/a	PRE	A	12.67 ml/mx	104	210	306	405		
	Ignite	2.34	L	29	oz/a	2lf/2"AM	B	15.31 ml/mx						
	Dual Magnum	7.64	L	16	oz/a	2lf/2"AM	B	8.445 ml/mx						
	Ignite	2.34	L	43	oz/a	28 d EP	C	22.7 ml/mx						
	Direx	4	L	2	pt/a	28 d EP	C	16.89 ml/mx						
5	Direx	4	L	1.5	pt/a	PRE	A	12.67 ml/mx	105	202	307	410		
	Ignite	2.34	L	29	oz/a	2lf/2"AM	B	15.31 ml/mx						
	Warrant	3	L	48	oz/a	2lf/2"AM	B	25.34 ml/mx						
	Ignite	2.34	L	43	oz/a	28 d EP	C	22.7 ml/mx						
	Direx	4	L	2	pt/a	28 d EP	C	16.89 ml/mx						
6	Direx	4	L	1.5	pt/a	PRE	A	12.67 ml/mx	106	204	308	402		
	Ignite	2.34	L	29	oz/a	2lf/2"AM	B	15.31 ml/mx						
	Staple LX	3.2	L	1.7	oz/a	2lf/2"AM	B	0.8973 ml/mx						
	Dual Magnum	7.64	L	16	oz/a	2lf/2"AM	B	8.445 ml/mx						
	Ignite	2.34	L	43	oz/a	28 d EP	C	22.7 ml/mx						
	Direx	4	L	2	pt/a	28 d EP	C	16.89 ml/mx						
7	Direx	4	L	1.5	pt/a	PRE	A	12.67 ml/mx	107	209	303	409		
	Ignite	2.34	L	29	oz/a	2lf/2"AM	B	15.31 ml/mx						
	Staple LX	3.2	L	1.7	oz/a	2lf/2"AM	B	0.8973 ml/mx						
	Warrant	3	L	48	oz/a	2lf/2"AM	B	25.34 ml/mx						
	Ignite	2.34	L	43	oz/a	28 d EP	C	22.7 ml/mx						
	Direx	4	L	2	pt/a	28 d EP	C	16.89 ml/mx						
8	Direx	4	L	1.5	pt/a	PRE	A	12.67 ml/mx	108	201	310	401		
	Ignite	2.34	L	29	oz/a	2lf/2"AM	B	15.31 ml/mx						
	Staple LX	3.2	L	2.7	oz/a	2lf/2"AM	B	1.425 ml/mx						
	Dual Magnum	7.64	L	16	oz/a	2lf/2"AM	B	8.445 ml/mx						
	Ignite	2.34	L	43	oz/a	28 d EP	C	22.7 ml/mx						
	Direx	4	L	2	pt/a	28 d EP	C	16.89 ml/mx						
9	Direx	4	L	1.5	pt/a	PRE	A	12.67 ml/mx	109	206	305	408		
	Ignite	2.34	L	29	oz/a	2lf/2"AM	B	15.31 ml/mx						
	Staple LX	3.2	L	1.7	oz/a	2lf/2"AM	B	0.8973 ml/mx						
	Warrant	3	L	48	oz/a	2lf/2"AM	B	25.34 ml/mx						
	Ignite	2.34	L	43	oz/a	28 d EP	C	22.7 ml/mx						
	Direx	4	L	2	pt/a	28 d EP	C	16.89 ml/mx						

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Use 1 liters(s) per treatment mixture to spray 14.8 gal/ac

Plots: 6 by 25 feet

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code	Amt to Measure	Product	Plot No. 1	By Rep 2	3	4
10	Direx No POST	4	L	1.5	pt/a	PRE	A	12.67 ml/mx		110	203	302	403

Sort Order: Treatment

Trial Comments

OBJECTIVE: Compare Staple POST programs for crop and weed response in Liberty Link cotton.

NOTE: Direx was applied over the entire trial area at planting as requested.

VISUAL INJURY:

- At 3 d after POST treatment 35 to 37% injury was noted with Ignite + Staple (2.7 oz), Ignite + Staple + Dual mixtures, and Ignite + Staple + Warrant mixtures. Ignite plus 1.7 oz of Staple caused 25% injury, Ignite + Dual Magnum or Warrant 12 to 15% injury and Ignite alone 4% injury.
- By 8 d after POST treatment, 13 to 15% injury was noted with the 3-way mixtures while injury from all other treatments was less than 10%.
- Little to no injury was noted by 15 d after POST treatment.

PALMER RESPONSE:

- Ignite provided excellent control of Palmer amaranth, additional flushes did not occur within 25 d of POST applications.
- Excellent control was maintained with all programs including a POST application after the 28 d EP.

SICKLEPOD RESPONSE:

- All POST treatments provided complete control; however, emergence of sicklepod continued.
- Neither Warrant nor Dual provided residual control. Staple provided some control but control had dropped to less than 85% by 25 days.
- Excellent control was maintained with all programs including a POST application after the 28 d EP.

TEXAS PANICUM RESPONSE:

- Ignite controlled all emerged plants; however, emergence of panicum continued.
- Residual control from Warrant and Dual were similar and better than Staple which did not improve control compared to no residual by Ignite alone.
- Excellent control was maintained with all programs including a POST application after the 28 d EP.

MORNINGGLORY CONTROL:

- Ignite provided excellent control of Palmer amaranth, an additional flush did not occur within 25 days.
- Excellent control was maintained with all programs including a POST application after the 28 d EP.

SEED COTTON YIELD:

- POST systems of Ignite, Ignite + Warrant, or Ignite + Dual Magnum had similar yields ranging from 3714 to 3815 lbs of seed cotton. The only other system with similar yield was noted with Ignite + Staple 1.7 fl oz + Warrant (3544). Other systems including Ignite + Staple (3164-3181), Ignite + Staple + Dual (2964-3012), and Ignite + Staple 2.7 oz + Warrant (3033) produced lower yields.

GENERAL COMMENTS:

- Direx + MSMA directed to all treatments with POST applications on 7/8/2011.

LL cotton response to Staple + Ignite alone or mixed with Warrant/Dual Magnum.

Study Dir.: Stanley Culpepper
Investigator: Stanley Culpepper

Weed Code					AMAPA	AMAPA	AMAPA	AMAPA
Crop Code	GOSHI	GOSHI	GOSHI	GOSHI				
Rating Data Type	injury	injury	injury	injury	control	control	control	control
Rating Unit	%	%	%	%	%	%	%	%
Rating Date	6/2/2011	6/7/2011	6/13/2011	10/24/2011	6/13/2011	6/24/2011	7/2/2011	7/29/2011
Trt-Eval Interval	3 DA-B	8 DA-B	15 DA-B	122 DA-C	8 DA-B	25 DA-B	8 DA-C	35 DA-C
ARM Action Codes								
# Subsamples, Dec.								

Trt No.	Treatment Name	Rate	Rate Unit										
			1	2	3	4	5	6	7	8	9		
1	Direx Ignite Ignite	1.5 29 43	pt/a oz/a oz/a	4.3	d 0.3	d 0.0	a 0.0	a	99.0	a 99.0	a 99.0	a 99.0	a
2	Direx Ignite Staple LX	1.5 29 1.7 43	pt/a oz/a oz/a	24.5	b 5.8	c 0.0	a 0.0	a	99.0	a 99.0	a 99.0	a 99.0	a
3	Direx Ignite Staple LX	1.5 29 2.7 43	pt/a oz/a oz/a	35.8	a 9.0	b 2.0	a 0.0	a	99.0	a 99.0	a 99.0	a 99.0	a
4	Direx Ignite Dual Magnum	1.5 29 16 43	pt/a oz/a oz/a	14.8	c 7.0	bc 0.0	a 0.0	a	99.0	a 99.0	a 99.0	a 99.0	a
5	Direx Ignite Warrant	1.5 29 48 43	pt/a oz/a oz/a	12.3	c 9.5	b 0.0	a 0.0	a	99.0	a 99.0	a 99.0	a 99.0	a
6	Direx Ignite Staple LX	1.5 29 1.7 43	pt/a oz/a oz/a	37.0	a 15.5	a 2.0	a 0.0	a	99.0	a 99.0	a 99.0	a 99.0	a
7	Direx Ignite Warrant	1.5 29 1.7 48 43	pt/a oz/a oz/a	37.0	a 14.8	a 2.0	a 0.0	a	99.0	a 99.0	a 99.0	a 99.0	a
8	Direx Ignite Staple LX	1.5 29 2.7 16 43	pt/a oz/a oz/a	37.5	a 12.8	a 3.3	a 0.0	a	99.0	a 99.0	a 99.0	a 99.0	a
9	Direx Ignite Warrant	1.5 29 1.7 48 43	pt/a oz/a oz/a	37.5	a 15.5	a 1.5	a 0.0	a	99.0	a 99.0	a 99.0	a 99.0	a

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Weed Code					AMAPA	AMAPA	AMAPA	AMAPA
Crop Code	GOSHI	GOSHI	GOSHI	GOSHI				
Rating Data Type	injury	injury	injury	injury	control	control	control	control
Rating Unit	%	%	%	%	%	%	%	%
Rating Date	6/2/2011	6/7/2011	6/13/2011	10/24/2011	6/13/2011	6/24/2011	7/2/2011	7/29/2011
Trt-Eval Interval	3 DA-B	8 DA-B	15 DA-B	122 DA-C	8 DA-B	25 DA-B	8 DA-C	35 DA-C
ARM Action Codes								
# Subsamples, Dec.								

Trt	Treatment	Rate	Unit	1	2	3	4	5	6	7	8	9	
No.	Name	Rate	Unit	1	2	3	4	5	6	7	8	9	b
10	Direx	1.5	pt/a	0.0	d 0.0	d 0.0	a 0.0	a	0.0	b 0.0	b 0.0	b 0.0	b
	No POST												
LSD (P=.05)				6.24	2.95	3.48	0.00	.	0.00	0.00	0.00	0.00	
Standard Deviation				4.30	2.03	2.40	0.00	.	0.00	0.00	0.00	0.00	
CV				17.87	22.57	223.22	0.0	.	0.0	0.0	0.0	0.0	
Bartlett's X2				14.315	14.287	0.328	0.0	.	0.0	0.0	0.0	0.0	
P(Bartlett's X2)				0.074	0.075	0.988	.	.	.	.	.	.	
Replicate F				0.453	1.180	3.605	0.000		0.000	0.000	0.000	0.000	
Replicate Prob(F)				0.7174	0.3360	0.0261	1.0000		1.0000	1.0000	1.0000	1.0000	
Treatment F				48.839	32.747	1.023	0.000		0.000	0.000	0.000	0.000	
Treatment Prob(F)				0.0001	0.0001	0.4471	1.0000		1.0000	1.0000	1.0000	1.0000	

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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Weed Code	AMAPA	CASOB	CASOB	CASOB	CASOB	CASOB	PANTE
Crop Code							
Rating Data Type	control	control	control	control	control	control	control
Rating Unit	%	%	%	%	%	%	%
Rating Date	10/24/2011	6/13/2011	6/24/2011	7/2/2011	7/29/2011	10/24/2011	6/13/2011
Trt-Eval Interval	122 DA-C	8 DA-B	25 DA-B	8 DA-C	35 DA-C	122 DA-C	8 DA-B
ARM Action Codes							
# Subsamples, Dec.							

Trt No.	Treatment Name	Rate	Unit	Rate											
				10	11	12	13	14	15	16	17	18			
1	Direx	1.5	pt/a	99.0	a	93.8	a	52.5	c	99.0	a	99.0	a	99.0	a
	Ignite	29	oz/a												
	Ignite	43	oz/a												
	Direx	2	pt/a												
2	Direx	1.5	pt/a	99.0	a	95.0	a	70.0	ab	99.0	a	99.0	a	99.0	a
	Ignite	29	oz/a												
	Staple LX	1.7	oz/a												
	Ignite	43	oz/a												
	Direx	2	pt/a												
3	Direx	1.5	pt/a	99.0	a	96.0	a	73.8	a	99.0	a	99.0	a	99.0	a
	Ignite	29	oz/a												
	Staple LX	2.7	oz/a												
	Ignite	43	oz/a												
	Direx	2	pt/a												
4	Direx	1.5	pt/a	99.0	a	95.3	a	57.5	bc	99.0	a	99.0	a	99.0	a
	Ignite	29	oz/a												
	Dual Magnum	16	oz/a												
	Ignite	43	oz/a												
	Direx	2	pt/a												
5	Direx	1.5	pt/a	99.0	a	95.3	a	57.3	bc	99.0	a	99.0	a	99.0	a
	Ignite	29	oz/a												
	Warrant	48	oz/a												
	Ignite	43	oz/a												
	Direx	2	pt/a												
6	Direx	1.5	pt/a	99.0	a	95.8	a	74.5	a	99.0	a	99.0	a	99.0	a
	Ignite	29	oz/a												
	Staple LX	1.7	oz/a												
	Dual Magnum	16	oz/a												
	Ignite	43	oz/a												
	Direx	2	pt/a												
7	Direx	1.5	pt/a	99.0	a	96.0	a	68.8	ab	99.0	a	99.0	a	99.0	a
	Ignite	29	oz/a												
	Staple LX	1.7	oz/a												
	Warrant	48	oz/a												
	Ignite	43	oz/a												
	Direx	2	pt/a												
8	Direx	1.5	pt/a	99.0	a	97.5	a	83.8	a	99.0	a	99.0	a	99.0	a
	Ignite	29	oz/a												
	Staple LX	2.7	oz/a												
	Dual Magnum	16	oz/a												
	Ignite	43	oz/a												
	Direx	2	pt/a												
9	Direx	1.5	pt/a	99.0	a	96.0	a	77.5	a	99.0	a	99.0	a	99.0	a
	Ignite	29	oz/a												
	Staple LX	1.7	oz/a												
	Warrant	48	oz/a												
	Ignite	43	oz/a												
	Direx	2	pt/a												
10	Direx	1.5	pt/a	0.0	b	0.0	b	0.0	d	0.0	b	0.0	b	0.0	b
	No POST														

LSD (P=.05)	0.00	.	4.27	15.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Standard Deviation	0.00	.	2.94	10.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CV	0.0	.	3.42	16.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bartlett's X2	0.0	.	5.039	22.219	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P(Bartlett's X2)	.	.	0.753	0.005*	.	.	.	.	.	.	.	.

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Weed Code	AMAPA	CASOB	CASOB	CASOB	CASOB	CASOB	PANTE
Crop Code							
Rating Data Type	control	control	control	control	control	control	control
Rating Unit	%	%	%	%	%	%	%
Rating Date	10/24/2011	6/13/2011	6/24/2011	7/2/2011	7/29/2011	10/24/2011	6/13/2011
Trt-Eval Interval	122 DA-C	8 DA-B	25 DA-B	8 DA-C	35 DA-C	122 DA-C	8 DA-B
ARM Action Codes							
# Subsamples, Dec.							

Trt	Treatment	Rate	Unit	10	11	12	13	14	15	16	17	18
No.	Name	Rate	Unit									
Replicate F		0.000			3.544		1.757	0.000	0.000	0.000		0.000
Replicate Prob(F)		1.0000			0.0277		0.1792	1.0000	1.0000	1.0000		1.0000
Treatment F		0.000			422.513		21.139	0.000	0.000	0.000		0.000
Treatment Prob(F)		1.0000			0.0001		0.0001	1.0000	1.0000	1.0000		1.0000

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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Weed Code	PANTE	PANTE	PANTE	PANTE	IPOSS	IPOSS	IPOSS	IPOSS
Crop Code								
Rating Data Type	control	control	control	control	control	control	control	control
Rating Unit	%	%	%	%	%	%	%	%
Rating Date	6/24/2011	7/2/2011	7/29/2011	10/24/2011	6/13/2011	6/24/2011	7/2/2011	7/29/2011
Trt-Eval Interval	25 DA-B	8 DA-C	35 DA-C	122 DA-C	8 DA-B	25 DA-B	8 DA-C	35 DA-C
ARM Action Codes								
# Subsamples, Dec.								

Trt	Treatment	Rate	Unit	19	20	21	22	23	24	25	26	27	
No.	Name	Rate	Unit										
1	Direx	1.5	pt/a	90.5	b 99.0	a 99.0	a 97.0	a	98.3	a 99.0	a 99.0	a 99.0	a
	Ignite	29	oz/a										
	Ignite	43	oz/a										
2	Direx	2	pt/a										
2	Direx	1.5	pt/a	90.5	b 99.0	a 99.0	a 98.0	a	99.0	a 99.0	a 99.0	a 99.0	a
	Ignite	29	oz/a										
	Staple LX	1.7	oz/a										
	Ignite	43	oz/a										
	Direx	2	pt/a										
3	Direx	1.5	pt/a	91.5	b 99.0	a 99.0	a 99.0	a	99.0	a 99.0	a 99.0	a 99.0	a
	Ignite	29	oz/a										
	Staple LX	2.7	oz/a										
	Ignite	43	oz/a										
	Direx	2	pt/a										
4	Direx	1.5	pt/a	97.5	a 99.0	a 99.0	a 97.0	a	99.0	a 99.0	a 99.0	a 99.0	a
	Ignite	29	oz/a										
	Dual Magnum	16	oz/a										
	Ignite	43	oz/a										
	Direx	2	pt/a										
5	Direx	1.5	pt/a	97.5	a 99.0	a 99.0	a 95.8	a	97.5	a 99.0	a 99.0	a 99.0	a
	Ignite	29	oz/a										
	Warrant	48	oz/a										
	Ignite	43	oz/a										
	Direx	2	pt/a										
6	Direx	1.5	pt/a	95.8	a 99.0	a 99.0	a 96.8	a	99.0	a 99.0	a 99.0	a 99.0	a
	Ignite	29	oz/a										
	Staple LX	1.7	oz/a										
	Dual Magnum	16	oz/a										
	Ignite	43	oz/a										
	Direx	2	pt/a										
7	Direx	1.5	pt/a	97.0	a 99.0	a 99.0	a 98.8	a	98.3	a 99.0	a 99.0	a 99.0	a
	Ignite	29	oz/a										
	Staple LX	1.7	oz/a										
	Warrant	48	oz/a										
	Ignite	43	oz/a										
	Direx	2	pt/a										
8	Direx	1.5	pt/a	96.0	a 99.0	a 99.0	a 96.8	a	99.0	a 99.0	a 99.0	a 99.0	a
	Ignite	29	oz/a										
	Staple LX	2.7	oz/a										
	Dual Magnum	16	oz/a										
	Ignite	43	oz/a										
	Direx	2	pt/a										
9	Direx	1.5	pt/a	98.0	a 99.0	a 99.0	a 97.5	a	99.0	a 99.0	a 99.0	a 99.0	a
	Ignite	29	oz/a										
	Staple LX	1.7	oz/a										
	Warrant	48	oz/a										
	Ignite	43	oz/a										
	Direx	2	pt/a										
10	Direx	1.5	pt/a	0.0	c 0.0	b 0.0	b 0.0	b	0.0	b 0.0	b 0.0	b 0.0	b
	No POST												
LSD (P=.05)				2.74	0.00	0.00	4.03	.	1.65	0.00	0.00	0.00	
Standard Deviation				1.89	0.00	0.00	2.77	.	1.14	0.00	0.00	0.00	
CV				2.21	0.0	0.0	3.17	.	1.28	0.0	0.0	0.0	
Bartlett's X2				8.19	0.0	0.0	12.639	.	2.02	0.0	0.0	0.0	
P(Bartlett's X2)				0.415	.	.	0.081	.	0.364	.	.	.	

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Weed Code	PANTE	PANTE	PANTE	PANTE	IPOSS	IPOSS	IPOSS	IPOSS
Crop Code								
Rating Data Type	control	control	control	control	control	control	control	control
Rating Unit	%	%	%	%	%	%	%	%
Rating Date	6/24/2011	7/2/2011	7/29/2011	10/24/2011	6/13/2011	6/24/2011	7/2/2011	7/29/2011
Trt-Eval Interval	25 DA-B	8 DA-C	35 DA-C	122 DA-C	8 DA-B	25 DA-B	8 DA-C	35 DA-C
ARM Action Codes								
# Subsamples, Dec.								

Trt	Treatment	Rate	Unit	19	20	21	22	23	24	25	26	27
No.	Name	Rate	Unit									
Replicate F		1.052		0.000	0.000	0.000	1.043	1.385	0.000	0.000	0.000	0.000
Replicate Prob(F)		0.3858		1.0000	1.0000	1.0000	0.3893	0.2688	1.0000	1.0000	1.0000	1.0000
Treatment F		1018.462		0.000	0.000	0.000	493.205	2996.231	0.000	0.000	0.000	0.000
Treatment Prob(F)		0.0001		1.0000	1.0000	1.0000	0.0001	0.0001	1.0000	1.0000	1.0000	1.0000

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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Weed Code	IPOSS	GOSHI	GOSHI
Crop Code		seed yld	seed yld
Rating Data Type	control	lb/plot	LB/A
Rating Unit	%	10/24/2011	10/24/2011
Rating Date	10/24/2011	122 DA-C	122 DA-C
Trt-Eval Interval	122 DA-C	TY1	
ARM Action Codes		1	
# Subsamples, Dec.			

Trt	Treatment	Rate	Unit	28	29	30	31
No.	Name	Rate	Unit				
1	Direx	1.5	pt/a	99.0	a	12.790	a
	Ignite	29	oz/a				
	Ignite	43	oz/a				
	Direx	2	pt/a				
2	Direx	1.5	pt/a	99.0	a	10.955	bc
	Ignite	29	oz/a				
	Staple LX	1.7	oz/a				
	Ignite	43	oz/a				
	Direx	2	pt/a				
3	Direx	1.5	pt/a	99.0	a	10.895	bc
	Ignite	29	oz/a				
	Staple LX	2.7	oz/a				
	Ignite	43	oz/a				
	Direx	2	pt/a				
4	Direx	1.5	pt/a	99.0	a	13.140	a
	Ignite	29	oz/a				
	Dual Magnum	16	oz/a				
	Ignite	43	oz/a				
	Direx	2	pt/a				
5	Direx	1.5	pt/a	99.0	a	12.845	a
	Ignite	29	oz/a				
	Warrant	48	oz/a				
	Ignite	43	oz/a				
	Direx	2	pt/a				
6	Direx	1.5	pt/a	99.0	a	10.375	c
	Ignite	29	oz/a				
	Staple LX	1.7	oz/a				
	Dual Magnum	16	oz/a				
	Ignite	43	oz/a				
	Direx	2	pt/a				
7	Direx	1.5	pt/a	99.0	a	12.205	ab
	Ignite	29	oz/a				
	Staple LX	1.7	oz/a				
	Warrant	48	oz/a				
	Ignite	43	oz/a				
	Direx	2	pt/a				
8	Direx	1.5	pt/a	99.0	a	10.205	c
	Ignite	29	oz/a				
	Staple LX	2.7	oz/a				
	Dual Magnum	16	oz/a				
	Ignite	43	oz/a				
	Direx	2	pt/a				
9	Direx	1.5	pt/a	99.0	a	10.435	c
	Ignite	29	oz/a				
	Staple LX	1.7	oz/a				
	Warrant	48	oz/a				
	Ignite	43	oz/a				
	Direx	2	pt/a				
10	Direx	1.5	pt/a	0.0	b	0.000	d
	No POST						

LSD (P=.05)	0.00	.	1.7100	496.59
Standard Deviation	0.00	.	1.1785	342.24
CV	0.0	.	11.35	11.35
Bartlett's X2	0.0	.	7.141	7.141
P(Bartlett's X2)	.	.	0.522	0.522

University of Georgia

Weed Code	IPOSS	GOSHI	GOSHI
Crop Code		seed yld	seed yld
Rating Data Type	control	lb/plot	LB/A
Rating Unit	%	10/24/2011	10/24/2011
Rating Date	10/24/2011	10/24/2011	10/24/2011
Trt-Eval Interval	122 DA-C	122 DA-C	122 DA-C
ARM Action Codes			TY1
# Subsamples, Dec.			1

Trt	Treatment	Rate				
No.	Name	Rate	Unit	28	29	30
						31
Replicate F		0.000			0.044	0.044
Replicate Prob(F)		1.0000			0.9873	0.9873
Treatment F		0.000			41.985	41.985
Treatment Prob(F)		1.0000			0.0001	0.0001

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.

University of Georgia

LL cotton response to Staple + Ignite alone or mixed with Warrant/Dual Magnum.

Trial ID: C45-11
Location: Attapulgus

Study Dir.: Stanley Culpepper
Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

Study Director: Stanley Culpepper	Title: Ext. Weed Science
Affiliation: University of Georgia	
Postal Code: 31793	
Investigator: Stanley Culpepper	Title: Ext. Weed Science
Affiliation: University of Georgia	
Postal Code: 31793	

TRIAL LOCATION

City: Attapulgus	Trial Status: completed
State/Prov.: Georgia	Trial Reliability: good
	Initiation Date: 5/12/2011

Country: USA

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	AMAPA Palmer amaranth	Amaranthus palmeri
2.	CASOB Sickle pod	Cassia obtusifolia
3.	PANTE Texas panicum	Panicum texanum
4.	IPOSS Morning glory	Ipomoea sp.

Crop 1: GOSHI COTTON, SHORT STAPLE	Variety: ST4145LLB2
Planting Date: 5/12/2011	Planting Method: seeded
Rate: 3 foot	Depth: 0.75 in
Row Spacing: 36 in	Spacing Within Row: 4 in
Soil Temperature: 75.6 F	Seed Bed: flat
Soil Moisture: ideal	Emergence Date: 5/17/2011

SITE AND DESIGN

Plot Width, Unit: 6 FT	Plot Length, Unit: 25 FT	Reps: 4
Site Type: Attapulgus Research Farm		
Tillage Type: Conventional	Study Design: RANDOMIZED COMPLETE BLOCK	

SOIL DESCRIPTION

% Sand: 84	% OM: 1.3	Texture: Loamy sand
% Silt: 8	pH: 6.0	
% Clay: 8		

Overall Moisture Conditions: irrigated

Closest Weather Station: www.griffin.uga.edu/aemn/

Distance: 350 **Unit:** yd

APPLICATION DESCRIPTION

	A	B	C
Application Date:	5/12/2011	5/30/2011	6/24/2011
Time of Day:	10:22 am	8:00 am	9:00 am
Application Method:	broadcast	broadcast	broadcast
Application Timing:	PRE	2lf/2"AMA	28 d EP
Applic. Placement:	on soil	overtop	directed
Air Temp., Unit:	78.5 F	78 F	83 F
% Relative Humidity:	70	72	81
Wind Velocity, Unit:	2.2 mph	7 mph	0 mph
Dew Presence (Y/N):	N	N	Y
Soil Temp., Unit:	75.6 F	81 F	81 F
Soil Moisture:	moist	moist	moist
% Cloud Cover:	60	10	80

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	GOSHI PRE	GOSHI POST	GOSHI LPD
Stage Scale:	not up	2 lf	11 lf
Height, Unit:	0 inch	4.5 in	22 in

University of Georgia

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	AMAPA PRE	AMAPA POST	AMAPA Layby
Stage Scale:	not up	2.5 inch	4 inch
Density, Unit:	0 inch	18 ydsq	8 ydsq
Weed 2 Code, Stage:	CASOB PRE	CASOB POST	CASOB Layby
Stage Scale:	not up	4 inch	4 inch
Density, Unit:	0 inch	8 ydsq	8 ydsq
Weed 3 Code, Stage:	PANTE PRE	PANTE POST	PANTE Layby
Stage Scale:	not up	2 inch	3 inch
Density, Unit:	0 inch	8 ydsq	4 ydsq
Weed 4 Code, Stage:	IPOSS PRE	IPOSS POST	IPOSS Layby
Stage Scale:	not up	4 inch	4 inch
Density, Unit:	0 inch	8 ydsq	4 ydsq

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	backpack	backpack	backpack
Operating Pressure:	24	24	26
Nozzle Type:	flat fan	flat fan	flood jet
Nozzle Size:	11002	11002	TK 2
Nozzle Spacing, Unit:	18 in	18 in	36 in
Nozzles/Row:	2	2	1
Boom Length, Unit:	4.5 ft	4.5 ft	
Boom Height, Unit:	15 in	15 in	12 in
Ground Speed, Unit:	3 mph	3 mph	3 mph
Carrier:	water	water	water
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA
Propellant:	CO2	CO2	CO2
Tank Mix (Y/N):	Y	Y	Y