

University of Georgia

Palmer amaranth response to LL and RR systems with varying levels of rye residue

Trial ID: C2-11
Location: Cordele

Study Dir.: Stanley Culpepper
Investigator: Stanley Culpepper

Use 3 liters(s) per treatment mixture to spray 15 gal/ac

Plots: 12 by 30 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	Nov 1: 30 LB RR Program								101	211	317	405
	Gramoxone Inteon	2	SL	3	pt/a	BD	A	74.99 ml/mx				
	COC		L	1	qt/a	BD	A	49.99 ml/mx				
	Gramoxone Inteon	2	SL	1.5	pt/a	PRE	B	37.5 ml/mx				
	COC		L	1	qt/a	PRE	B	49.99 ml/mx				
	Reflex	2	SL	1	pt/a	PRE	B	25.0 ml/mx				
	Direx	4	L	1.5	pt/a	PRE	B	37.5 ml/mx				
	Roundup Wmax	4.5	SL	22	oz/a	POST 1	C	34.37 ml/mx				
	Staple	3.2	SL	2	oz/a	POST 1	C	3.125 ml/mx				
	Roundup Wmax	4.5	SL	22	oz/a	POST 2	D	34.37 ml/mx				
	Warrant	3	L	3	pt/a	POST 2	D	74.99 ml/mx				
	Direx	4	L	2	pt/a	PD	E	49.99 ml/mx				
	MSMA	6	L	2	pt/a	PD	E	49.99 ml/mx				
	COC		L	2	pt/a	PD	E	49.99 ml/mx				
2	Nov 1: 30 LB								102	212	318	406
	Gramoxone Inteon	2	SL	3	pt/a	BD	A	74.99 ml/mx				
	COC		L	1	qt/a	BD	A	49.99 ml/mx				
	Gramoxone Inteon	2	SL	1.5	pt/a	PRE	B	37.5 ml/mx				
	COC		L	1	qt/a	PRE	B	49.99 ml/mx				
	Reflex	2	SL	1	pt/a	PRE	B	25.0 ml/mx				
	Direx	4	L	1.5	pt/a	PRE	B	37.5 ml/mx				
	Ignite	2.34	SL	29	oz/a	POST 1	C	45.31 ml/mx				
	Dual Magnum	7.62	SL	1	pt/a	POST 1	C	25.0 ml/mx				
	Ignite	4.5	SL	29	oz/a	POST 2	D	45.31 ml/mx				
	Warrant	3	L	3	pt/a	POST 2	D	74.99 ml/mx				
	Direx	4	L	2	pt/a	PD	E	49.99 ml/mx				
	MSMA	6	L	2	pt/a	PD	E	49.99 ml/mx				
	COC		L	2	pt/a	PD	E	49.99 ml/mx				
3	Nov 1: 60 LB								103	221	301	403
	RR Program											
	Gramoxone Inteon	2	SL	3	pt/a	BD	A	74.99 ml/mx				
	COC		L	1	qt/a	BD	A	49.99 ml/mx				
	Gramoxone Inteon	2	SL	1.5	pt/a	PRE	B	37.5 ml/mx				
	COC		L	1	qt/a	PRE	B	49.99 ml/mx				
	Reflex	2	SL	1	pt/a	PRE	B	25.0 ml/mx				
	Direx	4	L	1.5	pt/a	PRE	B	37.5 ml/mx				
	Roundup Wmax	4.5	SL	22	oz/a	POST 1	C	34.37 ml/mx				
	Staple	3.2	SL	2	oz/a	POST 1	C	3.125 ml/mx				
	Roundup Wmax	4.5	SL	22	oz/a	POST 2	D	34.37 ml/mx				
	Warrant	3	L	3	pt/a	POST 2	D	74.99 ml/mx				
	Direx	4	L	2	pt/a	PD	E	49.99 ml/mx				
	MSMA	6	L	2	pt/a	PD	E	49.99 ml/mx				
	COC		L	2	pt/a	PD	E	49.99 ml/mx				

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Use 3 liters(s) per treatment mixture to spray 15 gal/ac

Plots: 12 by 30 feet

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code	Amt to Measure	Product	Plot No. 1	Plot No. 2	Plot No. 3	Plot No. 4
4	Nov 1: 60 LB									104	222	302	404
	Gramoxone Inteon	2	SL	3	pt/a	BD	A	74.99 ml/mx					
	COC		L	1	qt/a	BD	A	49.99 ml/mx					
	Gramoxone Inteon	2	SL	1.5	pt/a	PRE	B	37.5 ml/mx					
	COC		L	1	qt/a	PRE	B	49.99 ml/mx					
	Reflex	2	SL	1	pt/a	PRE	B	25.0 ml/mx					
	Direx	4	L	1.5	pt/a	PRE	B	37.5 ml/mx					
	Ignite	2.34	SL	29	oz/a	POST 1	C	45.31 ml/mx					
	Dual Magnum	7.62	SL	1	pt/a	POST 1	C	25.0 ml/mx					
	Ignite	4.5	SL	29	oz/a	POST 2	D	45.31 ml/mx					
	Warrant	3	L	3	pt/a	POST 2	D	74.99 ml/mx					
	Direx	4	L	2	pt/a	PD	E	49.99 ml/mx					
	MSMA	6	L	2	pt/a	PD	E	49.99 ml/mx					
	COC		L	2	pt/a	PD	E	49.99 ml/mx					
5	Nov 1: 90 LB									105	223	311	415
	RR Program												
	Gramoxone Inteon	2	SL	3	pt/a	BD	A	74.99 ml/mx					
	COC		L	1	qt/a	BD	A	49.99 ml/mx					
	Gramoxone Inteon	2	SL	1.5	pt/a	PRE	B	37.5 ml/mx					
	COC		L	1	qt/a	PRE	B	49.99 ml/mx					
	Reflex	2	SL	1	pt/a	PRE	B	25.0 ml/mx					
	Direx	4	L	1.5	pt/a	PRE	B	37.5 ml/mx					
	Roundup Wmax	4.5	SL	22	oz/a	POST 1	C	34.37 ml/mx					
	Staple	3.2	SL	2	oz/a	POST 1	C	3.125 ml/mx					
	Roundup Wmax	4.5	SL	22	oz/a	POST 2	D	34.37 ml/mx					
	Warrant	3	L	3	pt/a	POST 2	D	74.99 ml/mx					
	Direx	4	L	2	pt/a	PD	E	49.99 ml/mx					
	MSMA	6	L	2	pt/a	PD	E	49.99 ml/mx					
	COC		L	2	pt/a	PD	E	49.99 ml/mx					
6	Nov 1: 90 LB									106	224	312	416
	Gramoxone Inteon	2	SL	3	pt/a	BD	A	74.99 ml/mx					
	COC		L	1	qt/a	BD	A	49.99 ml/mx					
	Gramoxone Inteon	2	SL	1.5	pt/a	PRE	B	37.5 ml/mx					
	COC		L	1	qt/a	PRE	B	49.99 ml/mx					
	Reflex	2	SL	1	pt/a	PRE	B	25.0 ml/mx					
	Direx	4	L	1.5	pt/a	PRE	B	37.5 ml/mx					
	Ignite	2.34	SL	29	oz/a	POST 1	C	45.31 ml/mx					
	Dual Magnum	7.62	SL	1	pt/a	POST 1	C	25.0 ml/mx					
	Ignite	4.5	SL	29	oz/a	POST 2	D	45.31 ml/mx					
	Warrant	3	L	3	pt/a	POST 2	D	74.99 ml/mx					
	Direx	4	L	2	pt/a	PD	E	49.99 ml/mx					
	MSMA	6	L	2	pt/a	PD	E	49.99 ml/mx					
	COC		L	2	pt/a	PD	E	49.99 ml/mx					
7	Nov 1: 120 LB									107	227	325	421
	RR Program												
	Gramoxone Inteon	2	SL	3	pt/a	BD	A	74.99 ml/mx					
	COC		L	1	qt/a	BD	A	49.99 ml/mx					
	Gramoxone Inteon	2	SL	1.5	pt/a	PRE	B	37.5 ml/mx					
	COC		L	1	qt/a	PRE	B	49.99 ml/mx					
	Reflex	2	SL	1	pt/a	PRE	B	25.0 ml/mx					
	Direx	4	L	1.5	pt/a	PRE	B	37.5 ml/mx					
	Roundup Wmax	4.5	SL	22	oz/a	POST 1	C	34.37 ml/mx					
	Staple	3.2	SL	2	oz/a	POST 1	C	3.125 ml/mx					
	Roundup Wmax	4.5	SL	22	oz/a	POST 2	D	34.37 ml/mx					
	Warrant	3	L	3	pt/a	POST 2	D	74.99 ml/mx					
	Direx	4	L	2	pt/a	PD	E	49.99 ml/mx					
	MSMA	6	L	2	pt/a	PD	E	49.99 ml/mx					
	COC		L	2	pt/a	PD	E	49.99 ml/mx					

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Use 3 liters(s) per treatment mixture to spray 15 gal/ac

Plots: 12 by 30 feet

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code	Amt to Measure	Product	Plot No. 1	Plot No. 2	Plot No. 3	Plot No. 4
8	Nov 1: 120 LB									108	228	326	422
	Gramoxone Inteon	2	SL	3	pt/a	BD	A	74.99 ml/mx					
	COC		L	1	qt/a	BD	A	49.99 ml/mx					
	Gramoxone Inteon	2	SL	1.5	pt/a	PRE	B	37.5 ml/mx					
	COC		L	1	qt/a	PRE	B	49.99 ml/mx					
	Reflex	2	SL	1	pt/a	PRE	B	25.0 ml/mx					
	Direx	4	L	1.5	pt/a	PRE	B	37.5 ml/mx					
	Ignite	2.34	SL	29	oz/a	POST 1	C	45.31 ml/mx					
	Dual Magnum	7.62	SL	1	pt/a	POST 1	C	25.0 ml/mx					
	Ignite	4.5	SL	29	oz/a	POST 2	D	45.31 ml/mx					
	Warrant	3	L	3	pt/a	POST 2	D	74.99 ml/mx					
	Direx	4	L	2	pt/a	PD	E	49.99 ml/mx					
	MSMA	6	L	2	pt/a	PD	E	49.99 ml/mx					
	COC		L	2	pt/a	PD	E	49.99 ml/mx					
9	Nov 29: 30 LB									109	213	303	427
	RR Program												
	Gramoxone Inteon	2	SL	3	pt/a	BD	A	74.99 ml/mx					
	COC		L	1	qt/a	BD	A	49.99 ml/mx					
	Gramoxone Inteon	2	SL	1.5	pt/a	PRE	B	37.5 ml/mx					
	COC		L	1	qt/a	PRE	B	49.99 ml/mx					
	Reflex	2	SL	1	pt/a	PRE	B	25.0 ml/mx					
	Direx	4	L	1.5	pt/a	PRE	B	37.5 ml/mx					
	Roundup Wmax	4.5	SL	22	oz/a	POST 1	C	34.37 ml/mx					
	Staple	3.2	SL	2	oz/a	POST 1	C	3.125 ml/mx					
	Roundup Wmax	4.5	SL	22	oz/a	POST 2	D	34.37 ml/mx					
	Warrant	3	L	3	pt/a	POST 2	D	74.99 ml/mx					
	Direx	4	L	2	pt/a	PD	E	49.99 ml/mx					
	MSMA	6	L	2	pt/a	PD	E	49.99 ml/mx					
	COC		L	2	pt/a	PD	E	49.99 ml/mx					
10	Nov 29: 30 LB									110	214	304	428
	Gramoxone Inteon	2	SL	3	pt/a	BD	A	74.99 ml/mx					
	COC		L	1	qt/a	BD	A	49.99 ml/mx					
	Gramoxone Inteon	2	SL	1.5	pt/a	PRE	B	37.5 ml/mx					
	COC		L	1	qt/a	PRE	B	49.99 ml/mx					
	Reflex	2	SL	1	pt/a	PRE	B	25.0 ml/mx					
	Direx	4	L	1.5	pt/a	PRE	B	37.5 ml/mx					
	Ignite	2.34	SL	29	oz/a	POST 1	C	45.31 ml/mx					
	Dual Magnum	7.62	SL	1	pt/a	POST 1	C	25.0 ml/mx					
	Ignite	4.5	SL	29	oz/a	POST 2	D	45.31 ml/mx					
	Warrant	3	L	3	pt/a	POST 2	D	74.99 ml/mx					
	Direx	4	L	2	pt/a	PD	E	49.99 ml/mx					
	MSMA	6	L	2	pt/a	PD	E	49.99 ml/mx					
	COC		L	2	pt/a	PD	E	49.99 ml/mx					
11	Nov 29: 60 LB									111	217	319	407
	RR Program												
	Gramoxone Inteon	2	SL	3	pt/a	BD	A	74.99 ml/mx					
	COC		L	1	qt/a	BD	A	49.99 ml/mx					
	Gramoxone Inteon	2	SL	1.5	pt/a	PRE	B	37.5 ml/mx					
	COC		L	1	qt/a	PRE	B	49.99 ml/mx					
	Reflex	2	SL	1	pt/a	PRE	B	25.0 ml/mx					
	Direx	4	L	1.5	pt/a	PRE	B	37.5 ml/mx					
	Roundup Wmax	4.5	SL	22	oz/a	POST 1	C	34.37 ml/mx					
	Staple	3.2	SL	2	oz/a	POST 1	C	3.125 ml/mx					
	Roundup Wmax	4.5	SL	22	oz/a	POST 2	D	34.37 ml/mx					
	Warrant	3	L	3	pt/a	POST 2	D	74.99 ml/mx					
	Direx	4	L	2	pt/a	PD	E	49.99 ml/mx					
	MSMA	6	L	2	pt/a	PD	E	49.99 ml/mx					
	COC		L	2	pt/a	PD	E	49.99 ml/mx					

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Use 3 liters(s) per treatment mixture to spray 15 gal/ac

Plots: 12 by 30 feet

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code	Amt to Measure	Product	Plot No. 1	Plot No. 2	Plot No. 3	Plot No. 4
12	Nov 29: 60 LB									112	218	320	408
	Gramoxone Inteon	2	SL	3	pt/a	BD	A	74.99 ml/mx					
	COC		L	1	qt/a	BD	A	49.99 ml/mx					
	Gramoxone Inteon	2	SL	1.5	pt/a	PRE	B	37.5 ml/mx					
	COC		L	1	qt/a	PRE	B	49.99 ml/mx					
	Reflex	2	SL	1	pt/a	PRE	B	25.0 ml/mx					
	Direx	4	L	1.5	pt/a	PRE	B	37.5 ml/mx					
	Ignite	2.34	SL	29	oz/a	POST 1	C	45.31 ml/mx					
	Dual Magnum	7.62	SL	1	pt/a	POST 1	C	25.0 ml/mx					
	Ignite	4.5	SL	29	oz/a	POST 2	D	45.31 ml/mx					
	Warrant	3	L	3	pt/a	POST 2	D	74.99 ml/mx					
	Direx	4	L	2	pt/a	PD	E	49.99 ml/mx					
	MSMA	6	L	2	pt/a	PD	E	49.99 ml/mx					
	COC		L	2	pt/a	PD	E	49.99 ml/mx					
13	Nov 29: 90 LB									113	209	327	423
	RR Program												
	Gramoxone Inteon	2	SL	3	pt/a	BD	A	74.99 ml/mx					
	COC		L	1	qt/a	BD	A	49.99 ml/mx					
	Gramoxone Inteon	2	SL	1.5	pt/a	PRE	B	37.5 ml/mx					
	COC		L	1	qt/a	PRE	B	49.99 ml/mx					
	Reflex	2	SL	1	pt/a	PRE	B	25.0 ml/mx					
	Direx	4	L	1.5	pt/a	PRE	B	37.5 ml/mx					
	Roundup Wmax	4.5	SL	22	oz/a	POST 1	C	34.37 ml/mx					
	Staple	3.2	SL	2	oz/a	POST 1	C	3.125 ml/mx					
	Roundup Wmax	4.5	SL	22	oz/a	POST 2	D	34.37 ml/mx					
	Warrant	3	L	3	pt/a	POST 2	D	74.99 ml/mx					
	Direx	4	L	2	pt/a	PD	E	49.99 ml/mx					
	MSMA	6	L	2	pt/a	PD	E	49.99 ml/mx					
	COC		L	2	pt/a	PD	E	49.99 ml/mx					
14	Nov 29: 90 LB									114	210	328	424
	Gramoxone Inteon	2	SL	3	pt/a	BD	A	74.99 ml/mx					
	COC		L	1	qt/a	BD	A	49.99 ml/mx					
	Gramoxone Inteon	2	SL	1.5	pt/a	PRE	B	37.5 ml/mx					
	COC		L	1	qt/a	PRE	B	49.99 ml/mx					
	Reflex	2	SL	1	pt/a	PRE	B	25.0 ml/mx					
	Direx	4	L	1.5	pt/a	PRE	B	37.5 ml/mx					
	Ignite	2.34	SL	29	oz/a	POST 1	C	45.31 ml/mx					
	Dual Magnum	7.62	SL	1	pt/a	POST 1	C	25.0 ml/mx					
	Ignite	4.5	SL	29	oz/a	POST 2	D	45.31 ml/mx					
	Warrant	3	L	3	pt/a	POST 2	D	74.99 ml/mx					
	Direx	4	L	2	pt/a	PD	E	49.99 ml/mx					
	MSMA	6	L	2	pt/a	PD	E	49.99 ml/mx					
	COC		L	2	pt/a	PD	E	49.99 ml/mx					
15	Nov 29: 120 LB									115	225	323	419
	RR Program												
	Gramoxone Inteon	2	SL	3	pt/a	BD	A	74.99 ml/mx					
	COC		L	1	qt/a	BD	A	49.99 ml/mx					
	Gramoxone Inteon	2	SL	1.5	pt/a	PRE	B	37.5 ml/mx					
	COC		L	1	qt/a	PRE	B	49.99 ml/mx					
	Reflex	2	SL	1	pt/a	PRE	B	25.0 ml/mx					
	Direx	4	L	1.5	pt/a	PRE	B	37.5 ml/mx					
	Roundup Wmax	4.5	SL	22	oz/a	POST 1	C	34.37 ml/mx					
	Staple	3.2	SL	2	oz/a	POST 1	C	3.125 ml/mx					
	Roundup Wmax	4.5	SL	22	oz/a	POST 2	D	34.37 ml/mx					
	Warrant	3	L	3	pt/a	POST 2	D	74.99 ml/mx					
	Direx	4	L	2	pt/a	PD	E	49.99 ml/mx					
	MSMA	6	L	2	pt/a	PD	E	49.99 ml/mx					
	COC		L	2	pt/a	PD	E	49.99 ml/mx					

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Use 3 liters(s) per treatment mixture to spray 15 gal/ac

Plots: 12 by 30 feet

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code	Amt to Measure	Product	Plot No. 1	Plot No. 2	Plot No. 3	Plot No. 4
16	Nov 29: 120 LB									116	226	324	420
	Gramoxone Inteon	2	SL	3	pt/a	BD	A	74.99 ml/mx					
	COC		L	1	qt/a	BD	A	49.99 ml/mx					
	Gramoxone Inteon	2	SL	1.5	pt/a	PRE	B	37.5 ml/mx					
	COC		L	1	qt/a	PRE	B	49.99 ml/mx					
	Reflex	2	SL	1	pt/a	PRE	B	25.0 ml/mx					
	Direx	4	L	1.5	pt/a	PRE	B	37.5 ml/mx					
	Ignite	2.34	SL	29	oz/a	POST 1	C	45.31 ml/mx					
	Dual Magnum	7.62	SL	1	pt/a	POST 1	C	25.0 ml/mx					
	Ignite	4.5	SL	29	oz/a	POST 2	D	45.31 ml/mx					
	Warrant	3	L	3	pt/a	POST 2	D	74.99 ml/mx					
	Direx	4	L	2	pt/a	PD	E	49.99 ml/mx					
	MSMA	6	L	2	pt/a	PD	E	49.99 ml/mx					
	COC		L	2	pt/a	PD	E	49.99 ml/mx					
17	Dec 22: 30 LB									117	207	309	417
	RR Program												
	Gramoxone Inteon	2	SL	3	pt/a	BD	A	74.99 ml/mx					
	COC		L	1	qt/a	BD	A	49.99 ml/mx					
	Gramoxone Inteon	2	SL	1.5	pt/a	PRE	B	37.5 ml/mx					
	COC		L	1	qt/a	PRE	B	49.99 ml/mx					
	Reflex	2	SL	1	pt/a	PRE	B	25.0 ml/mx					
	Direx	4	L	1.5	pt/a	PRE	B	37.5 ml/mx					
	Roundup Wmax	4.5	SL	22	oz/a	POST 1	C	34.37 ml/mx					
	Staple	3.2	SL	2	oz/a	POST 1	C	3.125 ml/mx					
	Roundup Wmax	4.5	SL	22	oz/a	POST 2	D	34.37 ml/mx					
	Warrant	3	L	3	pt/a	POST 2	D	74.99 ml/mx					
	Direx	4	L	2	pt/a	PD	E	49.99 ml/mx					
	MSMA	6	L	2	pt/a	PD	E	49.99 ml/mx					
	COC		L	2	pt/a	PD	E	49.99 ml/mx					
18	Dec 22: 30 LB									118	208	310	418
	Gramoxone Inteon	2	SL	3	pt/a	BD	A	74.99 ml/mx					
	COC		L	1	qt/a	BD	A	49.99 ml/mx					
	Gramoxone Inteon	2	SL	1.5	pt/a	PRE	B	37.5 ml/mx					
	COC		L	1	qt/a	PRE	B	49.99 ml/mx					
	Reflex	2	SL	1	pt/a	PRE	B	25.0 ml/mx					
	Direx	4	L	1.5	pt/a	PRE	B	37.5 ml/mx					
	Ignite	2.34	SL	29	oz/a	POST 1	C	45.31 ml/mx					
	Dual Magnum	7.62	SL	1	pt/a	POST 1	C	25.0 ml/mx					
	Ignite	4.5	SL	29	oz/a	POST 2	D	45.31 ml/mx					
	Warrant	3	L	3	pt/a	POST 2	D	74.99 ml/mx					
	Direx	4	L	2	pt/a	PD	E	49.99 ml/mx					
	MSMA	6	L	2	pt/a	PD	E	49.99 ml/mx					
	COC		L	2	pt/a	PD	E	49.99 ml/mx					
19	Dec 22: 60 LB									119	215	305	401
	RR Program												
	Gramoxone Inteon	2	SL	3	pt/a	BD	A	74.99 ml/mx					
	COC		L	1	qt/a	BD	A	49.99 ml/mx					
	Gramoxone Inteon	2	SL	1.5	pt/a	PRE	B	37.5 ml/mx					
	COC		L	1	qt/a	PRE	B	49.99 ml/mx					
	Reflex	2	SL	1	pt/a	PRE	B	25.0 ml/mx					
	Direx	4	L	1.5	pt/a	PRE	B	37.5 ml/mx					
	Roundup Wmax	4.5	SL	22	oz/a	POST 1	C	34.37 ml/mx					
	Staple	3.2	SL	2	oz/a	POST 1	C	3.125 ml/mx					
	Roundup Wmax	4.5	SL	22	oz/a	POST 2	D	34.37 ml/mx					
	Warrant	3	L	3	pt/a	POST 2	D	74.99 ml/mx					
	Direx	4	L	2	pt/a	PD	E	49.99 ml/mx					
	MSMA	6	L	2	pt/a	PD	E	49.99 ml/mx					
	COC		L	2	pt/a	PD	E	49.99 ml/mx					

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Use 3 liters(s) per treatment mixture to spray 15 gal/ac

Plots: 12 by 30 feet

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code	Amt to Measure	Product	Plot No. 1	Plot No. 2	Plot No. 3	Plot No. 4
20	Dec 22: 60 LB									120	216	306	402
	Gramoxone Inteon	2	SL	3	pt/a	BD	A	74.99 ml/mx					
	COC		L	1	qt/a	BD	A	49.99 ml/mx					
	Gramoxone Inteon	2	SL	1.5	pt/a	PRE	B	37.5 ml/mx					
	COC		L	1	qt/a	PRE	B	49.99 ml/mx					
	Reflex	2	SL	1	pt/a	PRE	B	25.0 ml/mx					
	Direx	4	L	1.5	pt/a	PRE	B	37.5 ml/mx					
	Ignite	2.34	SL	29	oz/a	POST 1	C	45.31 ml/mx					
	Dual Magnum	7.62	SL	1	pt/a	POST 1	C	25.0 ml/mx					
	Ignite	4.5	SL	29	oz/a	POST 2	D	45.31 ml/mx					
	Warrant	3	L	3	pt/a	POST 2	D	74.99 ml/mx					
	Direx	4	L	2	pt/a	PD	E	49.99 ml/mx					
	MSMA	6	L	2	pt/a	PD	E	49.99 ml/mx					
	COC		L	2	pt/a	PD	E	49.99 ml/mx					
21	Dec 22: 90 LB									121	219	307	425
	RR Program												
	Gramoxone Inteon	2	SL	3	pt/a	BD	A	74.99 ml/mx					
	COC		L	1	qt/a	BD	A	49.99 ml/mx					
	Gramoxone Inteon	2	SL	1.5	pt/a	PRE	B	37.5 ml/mx					
	COC		L	1	qt/a	PRE	B	49.99 ml/mx					
	Reflex	2	SL	1	pt/a	PRE	B	25.0 ml/mx					
	Direx	4	L	1.5	pt/a	PRE	B	37.5 ml/mx					
	Roundup Wmax	4.5	SL	22	oz/a	POST 1	C	34.37 ml/mx					
	Staple	3.2	SL	2	oz/a	POST 1	C	3.125 ml/mx					
	Roundup Wmax	4.5	SL	22	oz/a	POST 2	D	34.37 ml/mx					
	Warrant	3	L	3	pt/a	POST 2	D	74.99 ml/mx					
	Direx	4	L	2	pt/a	PD	E	49.99 ml/mx					
	MSMA	6	L	2	pt/a	PD	E	49.99 ml/mx					
	COC		L	2	pt/a	PD	E	49.99 ml/mx					
22	Dec 22: 90 LB									122	220	308	426
	Gramoxone Inteon	2	SL	3	pt/a	BD	A	74.99 ml/mx					
	COC		L	1	qt/a	BD	A	49.99 ml/mx					
	Gramoxone Inteon	2	SL	1.5	pt/a	PRE	B	37.5 ml/mx					
	COC		L	1	qt/a	PRE	B	49.99 ml/mx					
	Reflex	2	SL	1	pt/a	PRE	B	25.0 ml/mx					
	Direx	4	L	1.5	pt/a	PRE	B	37.5 ml/mx					
	Ignite	2.34	SL	29	oz/a	POST 1	C	45.31 ml/mx					
	Dual Magnum	7.62	SL	1	pt/a	POST 1	C	25.0 ml/mx					
	Ignite	4.5	SL	29	oz/a	POST 2	D	45.31 ml/mx					
	Warrant	3	L	3	pt/a	POST 2	D	74.99 ml/mx					
	Direx	4	L	2	pt/a	PD	E	49.99 ml/mx					
	MSMA	6	L	2	pt/a	PD	E	49.99 ml/mx					
	COC		L	2	pt/a	PD	E	49.99 ml/mx					
23	Dec 22: 120 LB									123	205	321	411
	RR Program												
	Gramoxone Inteon	2	SL	3	pt/a	BD	A	74.99 ml/mx					
	COC		L	1	qt/a	BD	A	49.99 ml/mx					
	Gramoxone Inteon	2	SL	1.5	pt/a	PRE	B	37.5 ml/mx					
	COC		L	1	qt/a	PRE	B	49.99 ml/mx					
	Reflex	2	SL	1	pt/a	PRE	B	25.0 ml/mx					
	Direx	4	L	1.5	pt/a	PRE	B	37.5 ml/mx					
	Roundup Wmax	4.5	SL	22	oz/a	POST 1	C	34.37 ml/mx					
	Staple	3.2	SL	2	oz/a	POST 1	C	3.125 ml/mx					
	Roundup Wmax	4.5	SL	22	oz/a	POST 2	D	34.37 ml/mx					
	Warrant	3	L	3	pt/a	POST 2	D	74.99 ml/mx					
	Direx	4	L	2	pt/a	PD	E	49.99 ml/mx					
	MSMA	6	L	2	pt/a	PD	E	49.99 ml/mx					
	COC		L	2	pt/a	PD	E	49.99 ml/mx					

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Use 3 liters(s) per treatment mixture to spray 15 gal/ac

Plots: 12 by 30 feet

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code	Amt to Measure	Product	Plot No. 1	Plot No. 2	Plot No. 3	Plot No. 4
24	Dec 22: 120 LB									124	206	322	412
	Gramoxone Inteon	2	SL	3	pt/a	BD	A	74.99 ml/mx					
	COC		L	1	qt/a	BD	A	49.99 ml/mx					
	Gramoxone Inteon	2	SL	1.5	pt/a	PRE	B	37.5 ml/mx					
	COC		L	1	qt/a	PRE	B	49.99 ml/mx					
	Reflex	2	SL	1	pt/a	PRE	B	25.0 ml/mx					
	Direx	4	L	1.5	pt/a	PRE	B	37.5 ml/mx					
	Ignite	2.34	SL	29	oz/a	POST 1	C	45.31 ml/mx					
	Dual Magnum	7.62	SL	1	pt/a	POST 1	C	25.0 ml/mx					
	Ignite	4.5	SL	29	oz/a	POST 2	D	45.31 ml/mx					
	Warrant	3	L	3	pt/a	POST 2	D	74.99 ml/mx					
	Direx	4	L	2	pt/a	PD	E	49.99 ml/mx					
	MSMA	6	L	2	pt/a	PD	E	49.99 ml/mx					
	COC		L	2	pt/a	PD	E	49.99 ml/mx					
25	No cover-strip till RR Program									125	203	315	409
	Gramoxone Inteon	2	SL	3	pt/a	BD	A	74.99 ml/mx					
	COC		L	1	qt/a	BD	A	49.99 ml/mx					
	Gramoxone Inteon	2	SL	1.5	pt/a	PRE	B	37.5 ml/mx					
	COC		L	1	qt/a	PRE	B	49.99 ml/mx					
	Reflex	2	SL	1	pt/a	PRE	B	25.0 ml/mx					
	Direx	4	L	1.5	pt/a	PRE	B	37.5 ml/mx					
	Roundup Wmax	4.5	SL	22	oz/a	POST 1	C	34.37 ml/mx					
	Staple	3.2	SL	2	oz/a	POST 1	C	3.125 ml/mx					
	Roundup Wmax	4.5	SL	22	oz/a	POST 2	D	34.37 ml/mx					
	Warrant	3	L	3	pt/a	POST 2	D	74.99 ml/mx					
	Direx	4	L	2	pt/a	PD	E	49.99 ml/mx					
	MSMA	6	L	2	pt/a	PD	E	49.99 ml/mx					
	COC		L	2	pt/a	PD	E	49.99 ml/mx					
26	No cover-strip till RR Program									126	204	316	410
	Gramoxone Inteon	2	SL	3	pt/a	BD	A	74.99 ml/mx					
	COC		L	1	qt/a	BD	A	49.99 ml/mx					
	Gramoxone Inteon	2	SL	1.5	pt/a	PRE	B	37.5 ml/mx					
	COC		L	1	qt/a	PRE	B	49.99 ml/mx					
	Reflex	2	SL	1	pt/a	PRE	B	25.0 ml/mx					
	Direx	4	L	1.5	pt/a	PRE	B	37.5 ml/mx					
	Ignite	2.34	SL	29	oz/a	POST 1	C	45.31 ml/mx					
	Dual Magnum	7.62	SL	1	pt/a	POST 1	C	25.0 ml/mx					
	Ignite	4.5	SL	29	oz/a	POST 2	D	45.31 ml/mx					
	Warrant	3	L	3	pt/a	POST 2	D	74.99 ml/mx					
	Direx	4	L	2	pt/a	PD	E	49.99 ml/mx					
	MSMA	6	L	2	pt/a	PD	E	49.99 ml/mx					
	COC		L	2	pt/a	PD	E	49.99 ml/mx					
27	No cover - conventional RR Program									127	201	313	413
	Gramoxone Inteon	2	SL	3	pt/a	BD	A	74.99 ml/mx					
	COC		L	1	qt/a	BD	A	49.99 ml/mx					
	Gramoxone Inteon	2	SL	1.5	pt/a	PRE	B	37.5 ml/mx					
	COC		L	1	qt/a	PRE	B	49.99 ml/mx					
	Reflex	2	SL	1	pt/a	PRE	B	25.0 ml/mx					
	Direx	4	L	1.5	pt/a	PRE	B	37.5 ml/mx					
	Roundup Wmax	4.5	SL	22	oz/a	POST 1	C	34.37 ml/mx					
	Staple	3.2	SL	2	oz/a	POST 1	C	3.125 ml/mx					
	Roundup Wmax	4.5	SL	22	oz/a	POST 2	D	34.37 ml/mx					
	Warrant	3	L	3	pt/a	POST 2	D	74.99 ml/mx					
	Direx	4	L	2	pt/a	PD	E	49.99 ml/mx					
	MSMA	6	L	2	pt/a	PD	E	49.99 ml/mx					
	COC		L	2	pt/a	PD	E	49.99 ml/mx					

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Use 3 liters(s) per treatment mixture to spray 15 gal/ac

Plots: 12 by 30 feet

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Amt to Measure	Product	Plot No. By Rep			
										1	2	3	4
28	No cover - conventional									128	202	314	414
	Gramoxone Inteon	2	SL	3	pt/a	BD	A	74.99 ml/mx					
	COC		L	1	qt/a	BD	A	49.99 ml/mx					
	Gramoxone Inteon	2	SL	1.5	pt/a	PRE	B	37.5 ml/mx					
	COC		L	1	qt/a	PRE	B	49.99 ml/mx					
	Reflex	2	SL	1	pt/a	PRE	B	25.0 ml/mx					
	Direx	4	L	1.5	pt/a	PRE	B	37.5 ml/mx					
	Ignite	2.34	SL	29	oz/a	POST 1	C	45.31 ml/mx					
	Dual Magnum	7.62	SL	1	pt/a	POST 1	C	25.0 ml/mx					
	Ignite	4.5	SL	29	oz/a	POST 2	D	45.31 ml/mx					
	Warrant	3	L	3	pt/a	POST 2	D	74.99 ml/mx					
	Direx	4	L	2	pt/a	PD	E	49.99 ml/mx					
	MSMA	6	L	2	pt/a	PD	E	49.99 ml/mx					
	COC		L	2	pt/a	PD	E	49.99 ml/mx					

Sort Order: Treatment

Trial Comments

OBJECTIVE: Determine the most effective heavy residue program.

Rye Production:

1. Greater than 6000 lb/A was produced with the following:
 - A. All Nov 1 seeding rates.
 - B. Nov 29 with 120 lb/A.
 - C. None with the Dec 22 plant date.

Cotton Heights:

1. Cotton growing in the conventional system was shorter than that in the strip till into no cover system which was generally shorter than cotton grown in systems with rye. However, rate of rye or plant date of rye tended to have no impact.
2. WRF cotton treated with Ignite was generally smaller than the same system with Roundup.

Palmer Populations:

1. RR Program: Most effective programs included Rye followed by strip tilling into no cover (no weeds) followed by conventional tilled.
2. Liberty Program: All programs provided excellent control.

PLANT STANDS:

1. Treatments had no impact but there was significant variability suggesting improvement of planting into a rye system is needed.

GENERAL COMMENTS:

1. Fertilizer was 2 ton/A of chicken litter applied prior to planting any rye.
2. Very cold harsh winter.

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Palmer amaranth response to LL and RR systems with varying levels of rye residue

Trial ID: C2-11
 Location: Cordele

Study Dir.: Stanley Culpepper
 Investigator: Stanley Culpepper

Weed Code	Rye	AVG20 PL	AMAPA	AMAPA	AMAPA	GOSHI
Crop Code	WET WEIGHT	heights	CTS	CTS	CTS	stand-2rows
Rating Data Type	LB/A	CM	#/plot	#/plot	#/plot	#/plot
Rating Unit	4/25/2011	7/12/2011	6/16/2011	7/26/2011	9/13/2011	7/12/2011
Rating Date	-53 DA-B	25 DA-B	-1 DA-B	39 DA-B	88 DA-B	25 DA-B
Trt-Eval Interval	T1	T2				T3
ARM Action Codes						

Trt No.	Treatment Name	Rate	Unit	2	24	26	27	28	32	
1	Nov 1: 30 LB RR Program	6743.4367			30.488 ab	0.0	c 0.0	c 0.0	d 90.8	a
	Gramoxone Inteon	3	pt/a							
	COC	1	qt/a							
	Gramoxone Inteon	1.5	pt/a							
	COC	1	qt/a							
	Reflex	1	pt/a							
	Direx	1.5	pt/a							
	Roundup Wmax	22	oz/a							
	Staple	2	oz/a							
	Roundup Wmax	22	oz/a							
	Warrant	3	pt/a							
	Direx	2	pt/a							
	MSMA	2	pt/a							
	COC	2	pt/a							
2	Nov 1: 30 LB RR Program	28.963			bcd 0.0	0.0	c 0.0	c 0.3	cd 99.3	a
	Gramoxone Inteon	3	pt/a							
	COC	1	qt/a							
	Gramoxone Inteon	1.5	pt/a							
	COC	1	qt/a							
	Reflex	1	pt/a							
	Direx	1.5	pt/a							
	Ignite	29	oz/a							
	Dual Magnum	1	pt/a							
	Ignite	29	oz/a							
	Warrant	3	pt/a							
	Direx	2	pt/a							
	MSMA	2	pt/a							
	COC	2	pt/a							
3	Nov 1: 60 LB RR Program	6821.1467			30.988 ab	0.5	c 0.8	c 0.5	cd 86.0	a
	Gramoxone Inteon	3	pt/a							
	COC	1	qt/a							
	Gramoxone Inteon	1.5	pt/a							
	COC	1	qt/a							
	Reflex	1	pt/a							
	Direx	1.5	pt/a							
	Roundup Wmax	22	oz/a							
	Staple	2	oz/a							
	Roundup Wmax	22	oz/a							
	Warrant	3	pt/a							
	Direx	2	pt/a							
	MSMA	2	pt/a							
	COC	2	pt/a							

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Weed Code		AVG20 PL	AMAPA	AMAPA	AMAPA	GOSHI				
Crop Code	Rye	GOSHI				GOSHI				
Rating Data Type	WET WEIGHT	heights	CTS	CTS	CTS	stand-2rows				
Rating Unit	LB/A	CM	#/plot	#/plot	#/plot	#/plot				
Rating Date	4/25/2011	7/12/2011	6/16/2011	7/26/2011	9/13/2011	7/12/2011				
Trt-Eval Interval	-53 DA-B	25 DA-B	-1 DA-B	39 DA-B	88 DA-B	25 DA-B				
ARM Action Codes	T1	T2				T3				
Trt	Treatment	Rate								
No.	Name	Rate	Unit	2	24	26	27	28	32	
7	Nov 1: 120 LB RR Program			7814.0979	30.600 ab	0.0	c 0.0	c 0.3	cd 99.0	a
	Gramoxone Inteon	3	pt/a							
	COC	1	qt/a							
	Gramoxone Inteon	1.5	pt/a							
	COC	1	qt/a							
	Reflex	1	pt/a							
	Direx	1.5	pt/a							
	Roundup Wmax	22	oz/a							
	Staple	2	oz/a							
	Roundup Wmax	22	oz/a							
	Warrant	3	pt/a							
	Direx	2	pt/a							
	MSMA	2	pt/a							
	COC	2	pt/a							
8	Nov 1: 120 LB				25.863 def	0.0	c 0.5	c 0.3	cd 94.0	a
	Gramoxone Inteon	3	pt/a							
	COC	1	qt/a							
	Gramoxone Inteon	1.5	pt/a							
	COC	1	qt/a							
	Reflex	1	pt/a							
	Direx	1.5	pt/a							
	Ignite	29	oz/a							
	Dual Magnum	1	pt/a							
	Ignite	29	oz/a							
	Warrant	3	pt/a							
	Direx	2	pt/a							
	MSMA	2	pt/a							
	COC	2	pt/a							
9	Nov 29: 30 LB RR Program			3850.9254	28.838 bcd	0.8	c 0.8	c 1.0	c 94.0	a
	Gramoxone Inteon	3	pt/a							
	COC	1	qt/a							
	Gramoxone Inteon	1.5	pt/a							
	COC	1	qt/a							
	Reflex	1	pt/a							
	Direx	1.5	pt/a							
	Roundup Wmax	22	oz/a							
	Staple	2	oz/a							
	Roundup Wmax	22	oz/a							
	Warrant	3	pt/a							
	Direx	2	pt/a							
	MSMA	2	pt/a							
	COC	2	pt/a							

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Weed Code		AVG20 PL	AMAPA	AMAPA	AMAPA	
Crop Code	Rye	GOSHI				GOSHI
Rating Data Type	WET WEIGHT	heights	CTS	CTS	CTS	stand-2rows
Rating Unit	LB/A	CM	#/plot	#/plot	#/plot	#/plot
Rating Date	4/25/2011	7/12/2011	6/16/2011	7/26/2011	9/13/2011	7/12/2011
Trt-Eval Interval	-53 DA-B	25 DA-B	-1 DA-B	39 DA-B	88 DA-B	25 DA-B
ARM Action Codes	T1	T2				T3

Trt No.	Treatment Name	Rate	Unit	2	24	26	27	28	32	
13	Nov 29: 90 LB RR Program			5612.3355	28.900	bcd 0.0	c 0.0	c 0.0	d 85.8	a
	Gramoxone Inteon	3	pt/a							
	COC	1	qt/a							
	Gramoxone Inteon	1.5	pt/a							
	COC	1	qt/a							
	Reflex	1	pt/a							
	Direx	1.5	pt/a							
	Roundup Wmax	22	oz/a							
	Staple	2	oz/a							
	Roundup Wmax	22	oz/a							
	Warrant	3	pt/a							
	Direx	2	pt/a							
	MSMA	2	pt/a							
	COC	2	pt/a							
14	Nov 29: 90 LB RR Program				26.475	c-f 0.0	c 0.0	c 0.0	d 98.0	a
	Gramoxone Inteon	3	pt/a							
	COC	1	qt/a							
	Gramoxone Inteon	1.5	pt/a							
	COC	1	qt/a							
	Reflex	1	pt/a							
	Direx	1.5	pt/a							
	Ignite	29	oz/a							
	Dual Magnum	1	pt/a							
	Ignite	29	oz/a							
	Warrant	3	pt/a							
	Direx	2	pt/a							
	MSMA	2	pt/a							
	COC	2	pt/a							
15	Nov 29: 120 LB RR Program			6475.7716	33.338	a 0.0	c 0.0	c 0.0	d 108.5	a
	Gramoxone Inteon	3	pt/a							
	COC	1	qt/a							
	Gramoxone Inteon	1.5	pt/a							
	COC	1	qt/a							
	Reflex	1	pt/a							
	Direx	1.5	pt/a							
	Roundup Wmax	22	oz/a							
	Staple	2	oz/a							
	Roundup Wmax	22	oz/a							
	Warrant	3	pt/a							
	Direx	2	pt/a							
	MSMA	2	pt/a							
	COC	2	pt/a							

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Weed Code		AVG20 PL	AMAPA	AMAPA	AMAPA	
Crop Code	Rye	GOSHI				GOSHI
Rating Data Type	WET WEIGHT	heights	CTS	CTS	CTS	stand-2rows
Rating Unit	LB/A	CM	#/plot	#/plot	#/plot	#/plot
Rating Date	4/25/2011	7/12/2011	6/16/2011	7/26/2011	9/13/2011	7/12/2011
Trt-Eval Interval	-53 DA-B	25 DA-B	-1 DA-B	39 DA-B	88 DA-B	25 DA-B
ARM Action Codes	T1	T2				T3

Trt No.	Treatment Name	Rate	Unit	2	24	26	27	28	32	
16	Nov 29: 120 LB			.	28.788	bcd 0.0	c 0.0	c 0.0	d 102.5	a
	Gramoxone Inteon	3	pt/a							
	COC	1	qt/a							
	Gramoxone Inteon	1.5	pt/a							
	COC	1	qt/a							
	Reflex	1	pt/a							
	Direx	1.5	pt/a							
	Ignite	29	oz/a							
	Dual Magnum	1	pt/a							
	Ignite	29	oz/a							
	Warrant	3	pt/a							
	Direx	2	pt/a							
	MSMA	2	pt/a							
	COC	2	pt/a							
17	Dec 22: 30 LB			2978.8553	29.575	bc 0.5	c 0.5	c 0.5	cd 109.3	a
	RR Program									
	Gramoxone Inteon	3	pt/a							
	COC	1	qt/a							
	Gramoxone Inteon	1.5	pt/a							
	COC	1	qt/a							
	Reflex	1	pt/a							
	Direx	1.5	pt/a							
	Roundup Wmax	22	oz/a							
	Staple	2	oz/a							
	Roundup Wmax	22	oz/a							
	Warrant	3	pt/a							
	Direx	2	pt/a							
	MSMA	2	pt/a							
	COC	2	pt/a							
18	Dec 22: 30 LB			.	28.900	bcd 0.0	c 0.0	c 0.0	d 107.5	a
	Gramoxone Inteon	3	pt/a							
	COC	1	qt/a							
	Gramoxone Inteon	1.5	pt/a							
	COC	1	qt/a							
	Reflex	1	pt/a							
	Direx	1.5	pt/a							
	Ignite	29	oz/a							
	Dual Magnum	1	pt/a							
	Ignite	29	oz/a							
	Warrant	3	pt/a							
	Direx	2	pt/a							
	MSMA	2	pt/a							
	COC	2	pt/a							

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Weed Code		AVG20 PL	AMAPA	AMAPA	AMAPA	GOSHI				
Crop Code	Rye	GOSHI				GOSHI				
Rating Data Type	WET WEIGHT	heights	CTS	CTS	CTS	stand-2rows				
Rating Unit	LB/A	CM	#/plot	#/plot	#/plot	#/plot				
Rating Date	4/25/2011	7/12/2011	6/16/2011	7/26/2011	9/13/2011	7/12/2011				
Trt-Eval Interval	-53 DA-B	25 DA-B	-1 DA-B	39 DA-B	88 DA-B	25 DA-B				
ARM Action Codes	T1	T2				T3				
Trt	Treatment	Rate								
No.	Name	Rate	Unit	2	24	26	27	28	32	
25	No cover-strip till RR Program			0.0000	25.813 def	2.5	b 2.5	b 2.8	b 109.3	a
	Gramoxone Inteon	3	pt/a							
	COC	1	qt/a							
	Gramoxone Inteon	1.5	pt/a							
	COC	1	qt/a							
	Reflex	1	pt/a							
	Direx	1.5	pt/a							
	Roundup Wmax	22	oz/a							
	Staple	2	oz/a							
	Roundup Wmax	22	oz/a							
	Warrant	3	pt/a							
	Direx	2	pt/a							
	MSMA	2	pt/a							
	COC	2	pt/a							
26	No cover-strip till				23.825 fg	0.0	c 0.0	c 0.0	d 97.8	a
	Gramoxone Inteon	3	pt/a							
	COC	1	qt/a							
	Gramoxone Inteon	1.5	pt/a							
	COC	1	qt/a							
	Reflex	1	pt/a							
	Direx	1.5	pt/a							
	Ignite	29	oz/a							
	Dual Magnum	1	pt/a							
	Ignite	29	oz/a							
	Warrant	3	pt/a							
	Direx	2	pt/a							
	MSMA	2	pt/a							
	COC	2	pt/a							
27	No cover - conventional RR Program			0.0000	24.538 efg	5.8	a 5.8	a 6.5	a 98.0	a
	Gramoxone Inteon	3	pt/a							
	COC	1	qt/a							
	Gramoxone Inteon	1.5	pt/a							
	COC	1	qt/a							
	Reflex	1	pt/a							
	Direx	1.5	pt/a							
	Roundup Wmax	22	oz/a							
	Staple	2	oz/a							
	Roundup Wmax	22	oz/a							
	Warrant	3	pt/a							
	Direx	2	pt/a							
	MSMA	2	pt/a							
	COC	2	pt/a							

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Weed Code		AVG20 PL	AMAPA	AMAPA	AMAPA	
Crop Code	Rye	GOSHI				GOSHI
Rating Data Type	WET WEIGHT	heights	CTS	CTS	CTS	stand-2rows
Rating Unit	LB/A	CM	#/plot	#/plot	#/plot	#/plot
Rating Date	4/25/2011	7/12/2011	6/16/2011	7/26/2011	9/13/2011	7/12/2011
Trt-Eval Interval	-53 DA-B	25 DA-B	-1 DA-B	39 DA-B	88 DA-B	25 DA-B
ARM Action Codes	T1	T2				T3

Trt	Treatment	Rate	Unit	2	24	26	27	28	32	
28	No cover - conventional	.		.	21.450 g	0.0	c 0.0	c 0.0	d 102.5	a
	Gramoxone Inteon	3	pt/a							
	COC	1	qt/a							
	Gramoxone Inteon	1.5	pt/a							
	COC	1	qt/a							
	Reflex	1	pt/a							
	Direx	1.5	pt/a							
	Ignite	29	oz/a							
	Dual Magnum	1	pt/a							
	Ignite	29	oz/a							
	Warrant	3	pt/a							
	Direx	2	pt/a							
	MSMA	2	pt/a							
	COC	2	pt/a							

LSD (P=.05)	.	3.5181	0.79	0.76	0.83	18.57
Standard Deviation	.	2.4877	0.56	0.53	0.59	13.13
CV	.	8.81	145.76	122.2	114.95	13.32
Bartlett's X2	.	55.685	9.564	6.954	18.904	33.987
P(Bartlett's X2)	.	0.001*	0.144	0.642	0.169	0.166
Replicate F		0.444	0.941	1.864	1.974	1.590
Replicate Prob(F)		0.7222	0.4249	0.1423	0.1244	0.1983
Treatment F		4.378	17.296	18.765	19.504	1.234
Treatment Prob(F)		0.0001	0.0001	0.0001	0.0001	0.2333

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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Palmer amaranth response to LL and RR systems with varying levels of rye residue

Trial ID: C2-11
Location: Cordele

Study Dir.: Stanley Culpepper
Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

Study Director: Stanley Culpepper **Title:** Ext Weed Science
Affiliation: University of Georgia
Postal Code: 31795
Investigator: Stanley Culpepper **Title:** Ext Weed Science
Affiliation: University of Georgia
Postal Code: 31793

TRIAL LOCATION

City: Macon County **Trial Status:** completed
State/Prov.: Georgia **Trial Reliability:** good
Initiation Date: 11/1/2010

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*

Crop 1: SECCE RYE **Variety:** Wrens
Planting Date: 11/1/2010 **Planting Method:** drilled
Depth: 1 in
Row Spacing: 7.5 inch **Seed Bed:** flat
Soil Temperature: 78 F **Soil Moisture:** moist **Emergence Date:** 11/7/2010

Crop 2: SECCE RYE **Variety:** Wrens
Planting Date: 11/29/2010 **Planting Method:** drilled
Depth: 1 in
Row Spacing: 7.5 inch **Seed Bed:** flat
Soil Temperature: 54 F **Soil Moisture:** moist **Emergence Date:** 12/6/2010

Crop 3: SECCE RYE **Variety:** Wrens
Planting Date: 12/22/2010 **Planting Method:** drilled
Depth: 1 in
Row Spacing: 7.5 inch
Soil Temperature: 47 F **Soil Moisture:** moist **Emergence Date:** 12/30/2010

Crop 4: GOSHI COTTON, SHORT STAPLE **Variety:** PHY 499 WRF
Planting Date: 6/17/2011 **Planting Method:** hill drop
Rate: 3 foot **Depth:** 0.75 in
Row Spacing: 36 in **Spacing Within Row:** 3 foot **Seed Bed:** rip/bed
Soil Temperature: 90 F **Soil Moisture:** fair **Emergence Date:** 6/21/2011

SITE AND DESIGN

Plot Width, Unit: 12 FT **Plot Length, Unit:** 30 FT **Reps:** 4
Site Type: On Farm
Tillage Type: see plot plan **Study Design:** FACTORIAL

SOIL DESCRIPTION

% Sand: 82 **% OM:** 2.0 **Texture:** Loamy sand
% Silt: 14 **pH:** 6.3
% Clay: 4

Overall Moisture Conditions: very dry

Closest Weather Station: rainfall taken on site

Distance: 500 **Unit:** yd

APPLICATION DESCRIPTION

	A	B	C	D	E
Application Date:	4/24/2011	6/17/2011	6/27/2011	7/22/2011	8/9/2011
Time of Day:	10:00 am	12:00 pm	9:00 am	7:45 am	11:00 am
Application Method:	broadcast	broadcast	broadcast	broadcast	broadcast
Application Timing:	BD	PRE	POST 1	POST 2	PD
Applic. Placement:	overtop	on soil	overtop	overtop	directed
Air Temp., Unit:	70 F	90 F	76 F	82 F	86 F
% Relative Humidity:	61	56	68	78	70
Wind Velocity, Unit:	2 mph	3 mph	0 mph	1.5 mph	3 mph
Dew Presence (Y/N):	N	N	Y	Y	N
Soil Temp., Unit:	66 F	93 F	78 F	83 F	88 F
Soil Moisture:	fair	fair	moist	fair	fair
% Cloud Cover:	25	0	95	20	30

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CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	SECCE	SECCE	SECCE	SECCE
Stage Scale:	see data	dead	dead	dead
Crop 2 Code, Stage:	SECCE	SECCE	SECCE	SECCE
Stage Scale:	see data	dead	dead	dead
Crop 3 Code, Stage:	SECCE	SECCE	SECCE	SECCE
Stage Scale:	see data	dead	dead	dead
Crop 4 Code, Stage:	GOSHI	GOSHI	GOSHI	GOSHI
Stage Scale:	preplant	1 lf	11-12 lf	17 lf
Height, Unit:	0 inch	2.5 in	19 in	28 in

WEED STAGE AT EACH APPLICATION

	A	B	C	D
Weed 1 Code, Stage:	AMAPA	AMAPA	AMAPA	AMAPA
Stage Scale:	2 inch	2.5 inch	5 inch	12 inch
Density, Unit:	see data	see data	see data	see data

APPLICATION EQUIPMENT

	A	B	C	D	E
Appl. Equipment:	backpack	backpack	backpack	backpack	backpack
Operating Pressure:	24	24	24	24	24
Nozzle Type:	flat fan	flat fan	flat fan	flat fan	floodjet
Nozzle Size:	11002	11002	11002	11002	TK2
Nozzle Spacing, Unit:	18 in	18 in	18 in	18 in	36 in
Nozzles/Row:	2	2	2	2	1
Boom Length, Unit:	4.5 ft	4.5 ft	4.5 ft	4.5 ft	
Boom Height, Unit:	15 in	15 in	15 in	15 in	15 in
Ground Speed, Unit:	3 mph	3 mph	3 mph	3 mph	3 mph
Carrier:	water	water	water	water	water
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA	15 GPA	15 GPA
Propellant:	CO2	CO2	CO2	CO2	CO2
Tank Mix (Y/N):	Y	Y	Y	Y	Y