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Residual PRE, POST, and LAYBY options in cotton

Trial ID: C38-07

Study Dir.: Trey Koger

Location: Ponder Farm

Investigator: Stanley Culpepper

Reps: 3

Plots: 6 by 25 feet

Spray vol: 14.8 gal/ac

Mix size: 1 liters (min .57876)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No. By Rep		
										1	2	3
1	Prowl H20	3.8	L		0.95	LB A/A	PRE	A	16.89 ml/mx	101	213	302
	Roundup Weathermax	4.5	L		0.77	LB AE/A	POST	B	11.56 ml/mx			
	Valor	51	WG		0.064	LB A/A	LAYBY	C	1.016 g/mx			
	MSMA	6	SC		2	LB A/A	LAYBY	C	22.52 ml/mx			
	NIS		L		0.25	% V/V	LAYBY	C	2.5 ml/mx			
2	Prowl H20	3.8	L		0.95	LB A/A	PRE	A	16.89 ml/mx	125	201	325
	Roundup Weathermax	4.5	L		0.77	LB AE/A	POST	B	11.56 ml/mx			
	Roundup Weathermax	4.5	L		0.77	LB AE/A	LAYBY	C	11.56 ml/mx			
3	Prowl H20	3.8	L		0.95	LB A/A	PRE	A	16.89 ml/mx	102	214	303
	Roundup Weathermax	4.5	L		0.77	LB AE/A	POST	B	11.56 ml/mx			
	Dual Magnum	7.62	L		1	LB A/A	POST	B	8.866 ml/mx			
	Valor	51	WG		0.064	LB A/A	LAYBY	C	1.016 g/mx			
	MSMA	6	SC		2	LB A/A	LAYBY	C	22.52 ml/mx			
	NIS		L		0.25	% V/V	LAYBY	C	2.5 ml/mx			
4	Prowl H20	3.8	L		0.95	LB A/A	PRE	A	16.89 ml/mx	124	202	324
	Roundup Weathermax	4.5	L		0.77	LB AE/A	POST	B	11.56 ml/mx			
	Dual Magnum	7.62	L		1	LB A/A	POST	B	8.866 ml/mx			
	Roundup Weathermax	4.5	L		0.77	LB AE/A	LAYBY	C	11.56 ml/mx			
5	Prowl H20	3.8	L		0.95	LB A/A	PRE	A	16.89 ml/mx	103	215	304
	Roundup Weathermax	4.5	L		0.77	LB AE/A	POST	B	11.56 ml/mx			
	Prowl H20	3.8	L		0.95	LB A/A	POST	B	16.89 ml/mx			
	Valor	51	WG		0.064	LB A/A	LAYBY	C	1.016 g/mx			
	MSMA	6	SC		2	LB A/A	LAYBY	C	22.52 ml/mx			
	NIS		L		0.25	% V/V	LAYBY	C	2.5 ml/mx			
6	Prowl H20	3.8	L		0.95	LB A/A	PRE	A	16.89 ml/mx	123	203	323
	Roundup Weathermax	4.5	L		0.77	LB AE/A	POST	B	11.56 ml/mx			
	Prowl H20	3.8	L		0.95	LB A/A	POST	B	16.89 ml/mx			
	Roundup Weathermax	4.5	L		0.77	LB AE/A	LAYBY	C	11.56 ml/mx			
7	Prowl H20	3.8	L		0.95	LB A/A	PRE	A	16.89 ml/mx	104	216	305
	Cotoran	4	L		1	LB A/A	PRE	A	16.89 ml/mx			
	Roundup Weathermax	4.5	L		0.77	LB AE/A	POST	B	11.56 ml/mx			
	Valor	51	WG		0.064	LB A/A	LAYBY	C	1.016 g/mx			
	MSMA	6	SC		2	LB A/A	LAYBY	C	22.52 ml/mx			
	NIS		L		0.25	% V/V	LAYBY	C	2.5 ml/mx			
8	Prowl H20	3.8	L		0.95	LB A/A	PRE	A	16.89 ml/mx	122	204	322
	Cotoran	4	L		1	LB A/A	PRE	A	16.89 ml/mx			
	Roundup Weathermax	4.5	L		0.77	LB AE/A	POST	B	11.56 ml/mx			
	Roundup Weathermax	4.5	L		0.77	LB AE/A	LAYBY	C	11.56 ml/mx			
9	Prowl H20	3.8	L		0.95	LB A/A	PRE	A	16.89 ml/mx	105	217	306
	Cotoran	4	L		1	LB A/A	PRE	A	16.89 ml/mx			
	Roundup Weathermax	4.5	L		0.77	LB AE/A	POST	B	11.56 ml/mx			
	Dual Magnum	7.62	L		1	LB A/A	POST	B	8.866 ml/mx			
	Valor	51	WG		0.064	LB A/A	LAYBY	C	1.016 g/mx			
	MSMA	6	SC		2	LB A/A	LAYBY	C	22.52 ml/mx			
10	Prowl H20	3.8	L		0.95	LB A/A	PRE	A	16.89 ml/mx	121	205	321
	Cotoran	4	L		1	LB A/A	PRE	A	16.89 ml/mx			
	Roundup Weathermax	4.5	L		0.77	LB AE/A	POST	B	11.56 ml/mx			
	Dual Magnum	7.62	L		1	LB A/A	POST	B	8.866 ml/mx			
	Roundup Weathermax	4.5	L		0.77	LB AE/A	LAYBY	C	11.56 ml/mx			

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Reps: 3

Plots: 6 by 25 feet

Spray vol: 14.8 gal/ac

Mix size: 1 liters (min .57876)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No. By Rep		
										1	2	3
11	Prowl H2O	3.8		L	0.95	LB A/A	PRE	A	16.89 ml/mx	106	218	307
	Cotoran	4		L	1	LB A/A	PRE	A	16.89 ml/mx			
	Roundup Weathermax	4.5		L	0.77	LB AE/A	POST	B	11.56 ml/mx			
	Prowl H2O	3.8		L	0.95	LB A/A	POST	B	16.89 ml/mx			
	Valor	51		WG	0.064	LB A/A	LAYBY	C	1.016 g/mx			
	MSMA	6		SC	2	LB A/A	LAYBY	C	22.52 ml/mx			
	NIS			L	0.25	% V/V	LAYBY	C	2.5 ml/mx			
12	Prowl H2O	3.8		L	0.95	LB A/A	PRE	A	16.89 ml/mx	120	206	320
	Cotoran	4		L	1	LB A/A	PRE	A	16.89 ml/mx			
	Roundup Weathermax	4.5		L	0.77	LB AE/A	POST	B	11.56 ml/mx			
	Prowl H2O	3.8		L	0.95	LB A/A	POST	B	16.89 ml/mx			
	Roundup Weathermax	4.5		L	0.77	LB AE/A	LAYBY	C	11.56 ml/mx			
13	Reflex	2		L	0.375	LB A/A	PRE	A	12.67 ml/mx	107	219	308
	Roundup Weathermax	4.5		L	0.77	LB AE/A	POST	B	11.56 ml/mx			
	Valor	51		WG	0.064	LB A/A	LAYBY	C	1.016 g/mx			
	MSMA	6		SC	2	LB A/A	LAYBY	C	22.52 ml/mx			
	NIS			L	0.25	% V/V	LAYBY	C	2.5 ml/mx			
14	Reflex	2		L	0.375	LB A/A	PRE	A	12.67 ml/mx	119	207	319
	Roundup Weathermax	4.5		L	0.77	LB AE/A	POST	B	11.56 ml/mx			
	Roundup Weathermax	4.5		L	0.77	LB AE/A	LAYBY	C	11.56 ml/mx			
15	Reflex	2		L	0.375	LB A/A	PRE	A	12.67 ml/mx	108	220	309
	Roundup Weathermax	4.5		L	0.77	LB AE/A	POST	B	11.56 ml/mx			
	Dual Magnum	7.62		L	1	LB A/A	POST	B	8.866 ml/mx			
	Valor	51		WG	0.064	LB A/A	LAYBY	C	1.016 g/mx			
	MSMA	6		SC	2	LB A/A	LAYBY	C	22.52 ml/mx			
	NIS			L	0.25	% V/V	LAYBY	C	2.5 ml/mx			
16	Reflex	2		L	0.375	LB A/A	PRE	A	12.67 ml/mx	118	208	318
	Roundup Weathermax	4.5		L	0.77	LB AE/A	POST	B	11.56 ml/mx			
	Dual Magnum	7.62		L	1	LB A/A	POST	B	8.866 ml/mx			
	Roundup Weathermax	4.5		L	0.77	LB AE/A	LAYBY	C	11.56 ml/mx			
17	Reflex	2		L	0.375	LB A/A	PRE	A	12.67 ml/mx	109	221	310
	Roundup Weathermax	4.5		L	0.77	LB AE/A	POST	B	11.56 ml/mx			
	Prowl H2O	3.8		L	0.95	LB A/A	POST	B	16.89 ml/mx			
	Valor	51		WG	0.064	LB A/A	LAYBY	C	1.016 g/mx			
	MSMA	6		SC	2	LB A/A	LAYBY	C	22.52 ml/mx			
	NIS			L	0.25	% V/V	LAYBY	C	2.5 ml/mx			
18	Reflex	2		L	0.375	LB A/A	PRE	A	12.67 ml/mx	117	209	317
	Roundup Weathermax	4.5		L	0.77	LB AE/A	POST	B	11.56 ml/mx			
	Prowl H2O	3.8		L	0.95	LB A/A	POST	B	16.89 ml/mx			
	Roundup Weathermax	4.5		L	0.77	LB AE/A	LAYBY	C	11.56 ml/mx			
19	No PRE									110	222	311
	Roundup Weathermax	4.5		L	0.77	LB AE/A	POST	B	11.56 ml/mx			
	Valor	51		WG	0.064	LB A/A	LAYBY	C	1.016 g/mx			
	MSMA	6		SC	2	LB A/A	LAYBY	C	22.52 ml/mx			
	NIS			L	0.25	% V/V	LAYBY	C	2.5 ml/mx			
20	No PRE									116	210	316
	Roundup Weathermax	4.5		L	0.77	LB AE/A	POST	B	11.56 ml/mx			
	Roundup Weathermax	4.5		L	0.77	LB AE/A	LAYBY	C	11.56 ml/mx			
21	No PRE									111	223	312
	Roundup Weathermax	4.5		L	0.77	LB AE/A	POST	B	11.56 ml/mx			
	Dual Magnum	7.62		L	1	LB A/A	POST	B	8.866 ml/mx			
	Valor	51		WG	0.064	LB A/A	LAYBY	C	1.016 g/mx			
	MSMA	6		SC	2	LB A/A	LAYBY	C	22.52 ml/mx			
	NIS			L	0.25	% V/V	LAYBY	C	2.5 ml/mx			

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Reps: 3 Plots: 6 by 25 feet
 Spray vol: 14.8 gal/ac Mix size: 1 liters (min .57876)

Ttr No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No. By Rep		
										1	2	3
22	No PRE									115	211	315
	Roundup Weathermax	4.5		L	0.77	LB AE/A	POST	B	11.56 ml/mx			
	Dual Magnum	7.62		L	1	LB A/A	POST	B	8.866 ml/mx			
	Roundup Weathermax	4.5		L	0.77	LB AE/A	LAYBY	C	11.56 ml/mx			
23	No PRE									112	224	313
	Roundup Weathermax	4.5		L	0.77	LB AE/A	POST	B	11.56 ml/mx			
	Prowl H2O	3.8		L	0.95	LB A/A	POST	B	16.89 ml/mx			
	Valor	51		WG	0.064	LB A/A	LAYBY	C	1.016 g/mx			
	MSMA	6		SC	2	LB A/A	LAYBY	C	22.52 ml/mx			
	NIS			L	0.25	% V/V	LAYBY	C	2.5 ml/mx			
24	No PRE									114	212	314
	Roundup Weathermax	4.5		L	0.77	LB AE/A	POST	B	11.56 ml/mx			
	Prowl H2O	3.8		L	0.95	LB A/A	POST	B	16.89 ml/mx			
	Roundup Weathermax	4.5		L	0.77	LB AE/A	LAYBY	C	11.56 ml/mx			
25	Untreated									113	225	301

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
422.253	ml	Prowl H2O	3.8	L	
520.216	ml	Roundup Weathermax	4.5	L	
15.240	g	Valor	51	WG	
337.802	ml	MSMA	6	SC	
37.496	ml	NIS		L	
88.662	ml	Dual Magnum	7.62	L	
126.676	ml	Cotoran	4	L	
95.007	ml	Reflex	2	L	

- * 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1 liters (mix size basis).
- * Product amount calculations increased 25 % for overage adjustment.
- * 'Per volume' calculations use spray volume= 14.8 gal/ac, mix size= 1 liters.

Trial Comments

OBJECTIVE: Determine the value of residual herbicides in Roundup Ready cotton.

NOTE: Irrigation occurred within 5 days of each herbicide application.

VISUAL INJURY:

1. Minor and insignificant injury was noted with PRE and POST treatments.
2. Valor + MSMA at layby caused up to 12% stem necrosis.

WEED RESPONSE

Palmer amaranth (sensitive to glyphosate):

1. PRE herbicides were activated with irrigation and control was excellent with Prowl, Prowl + Cotoran, or Reflex at 19 DAT.
2. POST treatments including glyphosate provided complete control.
3. Late in the season:
 1. Four of six programs without PRE's provided less than 87% control.
 2. When Prowl + Cotoran or Reflex were applied PRE, control was excellent regardless of POST treatments.
 3. When Prowl was applied PRE, programs applying only glyphosate POST provided less than 83% control.

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Smallflower morningglory:

1. Cotoran and Reflex PRE provided excellent control of smallflower morningglory during early season.
2. Five programs provided less than 90% control at harvest. Three of these programs did not have a PRE herbicides and used only glyphosate for control of emerged morningglory. The other two systems included only Prowl PRE with sequential glyphosate applications or glyphosate followed by Valor plus MSMA (coverage issue) at layby.
3. Programs using Cotoran or Reflex PRE provided excellent season long control.

Large Crabgrass:

1. Glyphosate applied POST provided complete control.
2. At harvest, with Prowl or Reflex PRE, control was less than 90% when glyphosate was applied POST alone and followed by Valor + MSMA. Also, Reflex followed by sequential glyphosate applications provided less than 90% control.
3. At harvest with Prowl + Cotoran PRE, all programs provided greater than 90% control.
4. When no PRE was applied, acceptable control was noted with only 2 programs including Prowl H20 plus Roundup POST.

Florida pusley:

1. Late-season control was at least 89% with all programs. Generally, the least effective programs did not include a PRE herbicide and/or relied predominately on glyphosate as the POST control tactic.

SEED COTTON YIELD:

1. Only 7 herbicide programs had yields below 2000 lb/A; thus, 17 programs had similar yields greater than 2000 lb/A.
2. No PRE fb Roundup fb Valor plus MSMA provided the lowest yield primarily due to lack of grass control.
3. All three programs with sequential glyphosate programs not using residual herbicides after planting provided less than 2000 lbs/A .
4. All three programs with glyphosate fb Valor plus MSMA also provided less than 2000 lbs/A.

CONCLUSIONS:

1. For consistency of controlling numerous weeds while providing the greatest potential for yield, residual herbicides PRE, early POST, and layby are needed.
2. For growers who want to use MSMA mixtures at layby, residual grass herbicides are needed both PRE and early POST.

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Residual PRE, POST, and LAYBY options in cotton

Trial ID: C38-07

Study Dir.: Trey Koger

Location: Ponder Farm

Investigator: Stanley Culpepper

Weed Code		INJURY	INJURY	INJURY	INJURY	INJURY	AMAPA	AMAPA		
Crop Code		cotton	cotton	cotton	cotton	cotton				
Rating Data Type		%	%	%	%	%	%	%		
Rating Unit		control	control	control	control	control	control	control		
Rating Date		May-20-07	May-25-07	May-27-07	Jun-24-07	Jul-04-07	May-20-07	May-27-07		
Trt-Eval Interval		19 DA-A	5 DA-B	7 DA-B	8 DA-C	18 DA-C	19 DA-A	7 DA-B		
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7
1	Prowl H20	0.95	LB A/A	0 a	0 a	0 a	8 ab	0 b	95 b	99 a
	Roundup Weathermax	0.77	LB AE/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							
2	Prowl H20	0.95	LB A/A	0 a	0 a	0 a	0 c	0 b	99 a	99 a
	Roundup Weathermax	0.77	LB AE/A							
	Roundup Weathermax	0.77	LB AE/A							
3	Prowl H20	0.95	LB A/A	3 a	0 a	0 a	12 a	0 b	95 b	99 a
	Roundup Weathermax	0.77	LB AE/A							
	Dual Magnum	1	LB A/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							
4	Prowl H20	0.95	LB A/A	0 a	0 a	0 a	0 c	0 b	98 a	99 a
	Roundup Weathermax	0.77	LB AE/A							
	Dual Magnum	1	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
5	Prowl H20	0.95	LB A/A	0 a	0 a	0 a	10 ab	0 b	97 ab	99 a
	Roundup Weathermax	0.77	LB AE/A							
	Prowl H20	0.95	LB A/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							
6	Prowl H20	0.95	LB A/A	0 a	0 a	0 a	0 c	0 b	98 ab	99 a
	Roundup Weathermax	0.77	LB AE/A							
	Prowl H20	0.95	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
7	Prowl H20	0.95	LB A/A	3 a	0 a	0 a	12 a	0 b	97 ab	99 a
	Cotoran	1	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							
8	Prowl H20	0.95	LB A/A	0 a	0 a	0 a	0 c	0 b	99 a	99 a
	Cotoran	1	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
	Roundup Weathermax	0.77	LB AE/A							
9	Prowl H20	0.95	LB A/A	0 a	0 a	0 a	12 a	0 b	99 a	99 a
	Cotoran	1	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
	Dual Magnum	1	LB A/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							

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Weed Code			INJURY	INJURY	INJURY	INJURY	INJURY	AMAPA	AMAPA	
Crop Code			cotton	cotton	cotton	cotton	cotton			
Rating Data Type			%	%	%	%	%	%	%	
Rating Unit			control	control	control	control	control	control	control	
Rating Date			May-20-07	May-25-07	May-27-07	Jun-24-07	Jul-04-07	May-20-07	May-27-07	
Trt-Eval Interval			19 DA-A	5 DA-B	7 DA-B	8 DA-C	18 DA-C	19 DA-A	7 DA-B	
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7
10	Prowl H20	0.95	LB A/A	0 a	0 a	0 a	0 c	0 b	98 a	99 a
	Cotoran	1	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
	Dual Magnum	1	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
11	Prowl H20	0.95	LB A/A	3 a	0 a	0 a	11 a	0 b	99 a	99 a
	Cotoran	1	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
	Prowl H20	0.95	LB A/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							
12	Prowl H20	0.95	LB A/A	0 a	0 a	0 a	0 c	0 b	98 a	99 a
	Cotoran	1	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
	Prowl H20	0.95	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
13	Reflex	0.375	LB A/A	0 a	0 a	0 a	11 a	0 b	99 a	99 a
	Roundup Weathermax	0.77	LB AE/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							
14	Reflex	0.375	LB A/A	2 a	0 a	2 a	0 c	0 b	98 a	99 a
	Roundup Weathermax	0.77	LB AE/A							
	Roundup Weathermax	0.77	LB AE/A							
15	Reflex	0.375	LB A/A	0 a	0 a	0 a	12 a	3 a	98 a	99 a
	Roundup Weathermax	0.77	LB AE/A							
	Dual Magnum	1	LB A/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							
16	Reflex	0.375	LB A/A	0 a	0 a	2 a	0 c	0 b	98 a	99 a
	Roundup Weathermax	0.77	LB AE/A							
	Dual Magnum	1	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
17	Reflex	0.375	LB A/A	0 a	0 a	0 a	12 a	0 b	97 ab	99 a
	Roundup Weathermax	0.77	LB AE/A							
	Prowl H20	0.95	LB A/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							
18	Reflex	0.375	LB A/A	0 a	0 a	0 a	0 c	0 b	98 a	99 a
	Roundup Weathermax	0.77	LB AE/A							
	Prowl H20	0.95	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
19	No PRE			0 a	0 a	0 a	10 ab	0 b	0 c	99 a
	Roundup Weathermax	0.77	LB AE/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							

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Weed Code	INJURY	INJURY	INJURY	INJURY	INJURY	AMAPA	AMAPA		
Crop Code	cotton	cotton	cotton	cotton	cotton				
Rating Data Type	%	%	%	%	%	%	%		
Rating Unit	control	control	control	control	control	control	control		
Rating Date	May-20-07	May-25-07	May-27-07	Jun-24-07	Jul-04-07	May-20-07	May-27-07		
Trt-Eval Interval	19 DA-A	5 DA-B	7 DA-B	8 DA-C	18 DA-C	19 DA-A	7 DA-B		
ARM Action Codes									
# Subsamples, Dec.									
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
No. Name	Rate	Unit	1	2	3	4	5	6	7
20 No PRE			0 a	0 a	2 a	0 c	0 b	0 c	99 a
Roundup Weathermax	0.77	LB AE/A							
Roundup Weathermax	0.77	LB AE/A							
21 No PRE			0 a	0 a	0 a	12 a	0 b	0 c	99 a
Roundup Weathermax	0.77	LB AE/A							
Dual Magnum	1	LB A/A							
Valor	0.064	LB A/A							
MSMA	2	LB A/A							
NIS	0.25	% V/V							
22 No PRE			0 a	0 a	2 a	0 c	0 b	0 c	99 a
Roundup Weathermax	0.77	LB AE/A							
Dual Magnum	1	LB A/A							
Roundup Weathermax	0.77	LB AE/A							
23 No PRE			0 a	0 a	0 a	7 b	0 b	0 c	99 a
Roundup Weathermax	0.77	LB AE/A							
Prowl H20	0.95	LB A/A							
Valor	0.064	LB A/A							
MSMA	2	LB A/A							
NIS	0.25	% V/V							
24 No PRE			0 a	0 a	1 a	0 c	0 b	0 c	99 a
Roundup Weathermax	0.77	LB AE/A							
Prowl H20	0.95	LB A/A							
Roundup Weathermax	0.77	LB AE/A							
25 Untreated			0 a	0 a	0 a	0 c	0 b	0 c	0 b
LSD (P=.05)	3.1			0.0	1.8	3.4	1.5	2.7	0.0
Standard Deviation	1.9			0.0	1.1	2.1	0.9	1.7	0.0
CV	433.74			0.0	360.17	39.89	866.03	2.37	0.0
Bartlett's X2	1.039			0.0	0.653	14.301	0.0	19.163	0.0
P(Bartlett's X2)	0.792			.	0.957	0.046*	.	0.118	.

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

University of Georgia

Weed Code			AMAPA	AMAPA	AMAPA	AMAPA	IAQTA	IAQTA	IAQTA	
Crop Code										
Rating Data Type			%	%	%	%	%	%	%	
Rating Unit			control	control	control	control	control	control	control	
Rating Date			Jun-16-07	Jun-24-07	Jul-04-07	Sep-03-07	May-20-07	May-27-07	Jun-16-07	
Trt-Eval Interval			27 DA-B	8 DA-C	18 DA-C	79 DA-C	19 DA-A	7 DA-B	27 DA-B	
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	8	9	10	11	12	13	14
1	Prowl H20	0.95	LB A/A	89 bc	89 c	87 bcd	73 d	79 b	93 abc	87 c-g
	Roundup Weathermax	0.77	LB AE/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							
2	Prowl H20	0.95	LB A/A	94 ab	99 a	93 a-d	83 c	72 b	94 abc	76 gh
	Roundup Weathermax	0.77	LB AE/A							
	Roundup Weathermax	0.77	LB AE/A							
3	Prowl H20	0.95	LB A/A	99 a	99 a	86 cd	99 a	76 b	89 bcd	84 d-h
	Roundup Weathermax	0.77	LB AE/A							
	Dual Magnum	1	LB A/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							
4	Prowl H20	0.95	LB A/A	99 a	99 a	96 abc	94 ab	75 b	94 abc	87 b-f
	Roundup Weathermax	0.77	LB AE/A							
	Dual Magnum	1	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
5	Prowl H20	0.95	LB A/A	99 a	98 a	99 a	99 a	75 b	86 cd	89 a-f
	Roundup Weathermax	0.77	LB AE/A							
	Prowl H20	0.95	LB A/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							
6	Prowl H20	0.95	LB A/A	99 a	99 a	97 ab	99 a	78 b	92 abc	83 e-h
	Roundup Weathermax	0.77	LB AE/A							
	Prowl H20	0.95	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
7	Prowl H20	0.95	LB A/A	98 a	99 a	99 a	99 a	97 a	97 ab	94 a-e
	Cotoran	1	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							
8	Prowl H20	0.95	LB A/A	96 ab	99 a	99 a	96 ab	95 a	96 ab	98 abc
	Cotoran	1	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
	Roundup Weathermax	0.77	LB AE/A							
9	Prowl H20	0.95	LB A/A	99 a	99 a	99 a	99 a	96 a	99 a	98 abc
	Cotoran	1	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
	Dual Magnum	1	LB A/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							
10	Prowl H20	0.95	LB A/A	99 a	99 a	98 a	95 ab	96 a	97 ab	98 abc
	Cotoran	1	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
	Dual Magnum	1	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							

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Weed Code			AMAPA	AMAPA	AMAPA	AMAPA	IAQTA	IAQTA	IAQTA	
Crop Code										
Rating Data Type			%	%	%	%	%	%	%	
Rating Unit			control	control	control	control	control	control	control	
Rating Date			Jun-16-07	Jun-24-07	Jul-04-07	Sep-03-07	May-20-07	May-27-07	Jun-16-07	
Trt-Eval Interval			27 DA-B	8 DA-C	18 DA-C	79 DA-C	19 DA-A	7 DA-B	27 DA-B	
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	8	9	10	11	12	13	14
11	Prowl H20	0.95	LB A/A	99 a	99 a	99 a	99 a	97 a	99 a	98 abc
	Cotoran	1	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
	Prowl H20	0.95	LB A/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							
12	Prowl H20	0.95	LB A/A	99 a	99 a	99 a	99 a	96 a	99 a	98 ab
	Cotoran	1	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
	Prowl H20	0.95	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
13	Reflex	0.375	LB A/A	99 a	99 a	99 a	99 a	91 a	92 abc	95 a-d
	Roundup Weathermax	0.77	LB AE/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							
14	Reflex	0.375	LB A/A	99 a	99 a	99 a	94 ab	97 a	99 a	99 a
	Roundup Weathermax	0.77	LB AE/A							
	Roundup Weathermax	0.77	LB AE/A							
15	Reflex	0.375	LB A/A	99 a	99 a	99 a	99 a	95 a	99 a	96 abc
	Roundup Weathermax	0.77	LB AE/A							
	Dual Magnum	1	LB A/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							
16	Reflex	0.375	LB A/A	99 a	99 a	99 a	96 ab	96 a	99 a	96 abc
	Roundup Weathermax	0.77	LB AE/A							
	Dual Magnum	1	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
17	Reflex	0.375	LB A/A	99 a	99 a	99 a	99 a	93 a	92 abc	90 a-f
	Roundup Weathermax	0.77	LB AE/A							
	Prowl H20	0.95	LB A/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							
18	Reflex	0.375	LB A/A	99 a	99 a	99 a	99 a	96 a	99 a	93 a-f
	Roundup Weathermax	0.77	LB AE/A							
	Prowl H20	0.95	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
19	No PRE			72 e	94 b	85 d	78 cd	0 c	91 abc	76 gh
	Roundup Weathermax	0.77	LB AE/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							
20	No PRE			82 d	99 a	98 a	83 c	0 c	94 abc	90 a-f
	Roundup Weathermax	0.77	LB AE/A							
	Roundup Weathermax	0.77	LB AE/A							

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Weed Code		AMAPA	AMAPA	AMAPA	AMAPA	IAQTA	IAQTA	IAQTA		
Crop Code										
Rating Data Type		%	%	%	%	%	%	%		
Rating Unit		control	control	control	control	control	control	control		
Rating Date		Jun-16-07	Jun-24-07	Jul-04-07	Sep-03-07	May-20-07	May-27-07	Jun-16-07		
Trt-Eval Interval		27 DA-B	8 DA-C	18 DA-C	79 DA-C	19 DA-A	7 DA-B	27 DA-B		
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	8	9	10	11	12	13	14
21	No PRE Roundup Weathermax Dual Magnum Valor MSMA NIS	0.77 1 0.064 2 0.25	LB AE/A LB A/A LB A/A LB A/A % V/V	93 ab	99 a	99 a	93 ab	0 c	93 abc	87 c-g
22	No PRE Roundup Weathermax Dual Magnum Roundup Weathermax	0.77 1 0.77	LB AE/A LB A/A LB AE/A	96 ab	99 a	89 a-d	73 d	0 c	95 abc	84 d-h
23	No PRE Roundup Weathermax Prowl H20 Valor MSMA NIS	0.77 0.95 0.064 2 0.25	LB AE/A LB A/A LB A/A LB A/A % V/V	83 cd	98 a	86 bcd	93 ab	0 c	82 d	74 h
24	No PRE Roundup Weathermax Prowl H20 Roundup Weathermax	0.77 0.95 0.77	LB AE/A LB A/A LB AE/A	90 bc	99 a	90 a-d	87 bc	0 c	91 abc	83 fgh
25	Untreated			0 f	0 d	0 e	0 e	0 c	0 e	0 i
LSD (P=.05)		6.4		3.1	9.7	8.5	11.0	7.8	9.6	
Standard Deviation		3.9		1.9	5.9	5.2	6.7	4.7	5.8	
CV		4.25		1.99	6.39	5.8	10.41	5.21	6.73	
Bartlett's X2		11.882		6.798	47.321	3.92	61.229	12.758	29.413	
P(Bartlett's X2)		0.22		0.079	0.001*	0.985	0.001*	0.69	0.133	

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

University of Georgia

Weed Code			IAQTA	IAQTA	IAQTA	DIGSA	DIGSA	DIGSA	DIGSA	
Crop Code										
Rating Data Type			%	%	%	%	%	%	%	
Rating Unit			control	control	control	control	control	control	control	
Rating Date			Jun-24-07	Jul-04-07	Sep-03-07	May-27-07	Jun-16-07	Jun-24-07	Jul-04-07	
Trt-Eval Interval			8 DA-C	18 DA-C	79 DA-C	7 DA-B	27 DA-B	8 DA-C	18 DA-C	
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	15	16	17	18	19	20	21
1	Prowl H20	0.95	LB A/A	89 a	87 b	77 d	99 a	95 a	94 b	93 abc
	Roundup Weathermax	0.77	LB AE/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							
2	Prowl H20	0.95	LB A/A	80 b	93 ab	89 abc	99 a	96 a	99 a	99 a
	Roundup Weathermax	0.77	LB AE/A							
	Roundup Weathermax	0.77	LB AE/A							
3	Prowl H20	0.95	LB A/A	97 a	96 ab	97 ab	99 a	98 a	99 a	98 a
	Roundup Weathermax	0.77	LB AE/A							
	Dual Magnum	1	LB A/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							
4	Prowl H20	0.95	LB A/A	91 a	98 a	91 abc	99 a	98 a	99 a	97 ab
	Roundup Weathermax	0.77	LB AE/A							
	Dual Magnum	1	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
5	Prowl H20	0.95	LB A/A	99 a	99 a	95 ab	99 a	97 a	99 a	99 a
	Roundup Weathermax	0.77	LB AE/A							
	Prowl H20	0.95	LB A/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							
6	Prowl H20	0.95	LB A/A	94 a	98 a	99 a	99 a	98 a	99 a	99 a
	Roundup Weathermax	0.77	LB AE/A							
	Prowl H20	0.95	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
7	Prowl H20	0.95	LB A/A	99 a	99 a	95 ab	99 a	96 a	99 a	99 a
	Cotoran	1	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							
8	Prowl H20	0.95	LB A/A	99 a	99 a	99 a	99 a	96 a	99 a	99 a
	Cotoran	1	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
	Roundup Weathermax	0.77	LB AE/A							
9	Prowl H20	0.95	LB A/A	99 a	99 a	99 a	99 a	98 a	99 a	97 ab
	Cotoran	1	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
	Dual Magnum	1	LB A/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							
10	Prowl H20	0.95	LB A/A	99 a	99 a	99 a	99 a	98 a	99 a	99 a
	Cotoran	1	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
	Dual Magnum	1	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							

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Weed Code			IAQTA	IAQTA	IAQTA	DIGSA	DIGSA	DIGSA	DIGSA	
Crop Code										
Rating Data Type			%	%	%	%	%	%	%	
Rating Unit			control	control	control	control	control	control	control	
Rating Date			Jun-24-07	Jul-04-07	Sep-03-07	May-27-07	Jun-16-07	Jun-24-07	Jul-04-07	
Trt-Eval Interval			8 DA-C	18 DA-C	79 DA-C	7 DA-B	27 DA-B	8 DA-C	18 DA-C	
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Unit	15	16	17	18	19	20	21
11	Prowl H20	0.95	LB A/A	99 a	99 a	95 ab	99 a	98 a	99 a	99 a
	Cotoran	1	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
	Prowl H20	0.95	LB A/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							
12	Prowl H20	0.95	LB A/A	99 a	99 a	99 a	99 a	99 a	99 a	99 a
	Cotoran	1	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
	Prowl H20	0.95	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
13	Reflex	0.375	LB A/A	94 a	91 ab	92 abc	99 a	93 a	99 a	88 cd
	Roundup Weathermax	0.77	LB AE/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							
14	Reflex	0.375	LB A/A	99 a	99 a	93 ab	99 a	99 a	99 a	99 a
	Roundup Weathermax	0.77	LB AE/A							
	Roundup Weathermax	0.77	LB AE/A							
15	Reflex	0.375	LB A/A	99 a	99 a	99 a	99 a	94 a	98 a	96 ab
	Roundup Weathermax	0.77	LB AE/A							
	Dual Magnum	1	LB A/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							
16	Reflex	0.375	LB A/A	95 a	98 a	99 a	99 a	96 a	99 a	99 a
	Roundup Weathermax	0.77	LB AE/A							
	Dual Magnum	1	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
17	Reflex	0.375	LB A/A	97 a	95 ab	99 a	99 a	98 a	99 a	91 bc
	Roundup Weathermax	0.77	LB AE/A							
	Prowl H20	0.95	LB A/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							
18	Reflex	0.375	LB A/A	99 a	99 a	99 a	99 a	99 a	99 a	99 a
	Roundup Weathermax	0.77	LB AE/A							
	Prowl H20	0.95	LB A/A							
	Roundup Weathermax	0.77	LB AE/A							
19	No PRE			95 a	91 ab	92 abc	99 a	61 d	86 c	83 d
	Roundup Weathermax	0.77	LB AE/A							
	Valor	0.064	LB A/A							
	MSMA	2	LB A/A							
	NIS	0.25	% V/V							
20	No PRE			89 a	88 ab	85 bcd	99 a	69 c	99 a	98 ab
	Roundup Weathermax	0.77	LB AE/A							
	Roundup Weathermax	0.77	LB AE/A							

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Weed Code	IAQTA	IAQTA	IAQTA	DIGSA	DIGSA	DIGSA	DIGSA		
Crop Code									
Rating Data Type	%	%	%	%	%	%	%		
Rating Unit	control	control	control	control	control	control	control		
Rating Date	Jun-24-07	Jul-04-07	Sep-03-07	May-27-07	Jun-16-07	Jun-24-07	Jul-04-07		
Trt-Eval Interval	8 DA-C	18 DA-C	79 DA-C	7 DA-B	27 DA-B	8 DA-C	18 DA-C		
ARM Action Codes									
# Subsamples, Dec.									
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
No. Name	Rate	Unit	15	16	17	18	19	20	21
21 No PRE			99 a	99 a	97 ab	99 a	82 b	97 a	94 abc
Roundup Weathermax	0.77	LB AE/A							
Dual Magnum	1	LB A/A							
Valor	0.064	LB A/A							
MSMA	2	LB A/A							
NIS	0.25	% V/V							
22 No PRE			92 a	99 a	90 abc	99 a	85 b	99 a	97 ab
Roundup Weathermax	0.77	LB AE/A							
Dual Magnum	1	LB A/A							
Roundup Weathermax	0.77	LB AE/A							
23 No PRE			93 a	96 ab	97 ab	99 a	94 a	99 a	97 ab
Roundup Weathermax	0.77	LB AE/A							
Prowl H20	0.95	LB A/A							
Valor	0.064	LB A/A							
MSMA	2	LB A/A							
NIS	0.25	% V/V							
24 No PRE			90 a	95 ab	80 cd	99 a	96 a	99 a	99 a
Roundup Weathermax	0.77	LB AE/A							
Prowl H20	0.95	LB A/A							
Roundup Weathermax	0.77	LB AE/A							
25 Untreated			0 c	0 c	0 e	0 b	0 e	0 d	0 e
LSD (P=.05)			8.9	9.3	11.3	0.0	6.6	2.3	6.1
Standard Deviation			5.4	5.6	6.8	0.0	4.0	1.4	3.7
CV			5.89	6.09	7.57	0.0	4.46	1.45	3.98
Bartlett's X2			6.251	41.597	19.761	0.0	21.046	4.077	25.436
P(Bartlett's X2)			0.903	0.001*	0.138	.	0.394	0.253	0.008*

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

University of Georgia

Weed Code			DIGSA	RCHSC	RCHSC	SEED	SEED	
Crop Code						GOSHI	GOSHI	
Rating Data Type			%	%	%	lb	lb	
Rating Unit			control	control	control	plot	acre	
Rating Date			Sep-03-07	Jun-16-07	Sep-03-07	Sep-26-07	Sep-26-07	
Trt-Eval Interval			79 DA-C	27 DA-B	79 DA-C	102 DA-C	102 DA-C	
ARM Action Codes							TY1	
# Subsamples, Dec.							1	
Trt No.	Treatment Name	Rate	Unit	22	23	24	25	26
1	Prowl H20	0.95	LB A/A	76 de	98 a	93 bc	6 de	1816.9 de
	Roundup Weathermax	0.77	LB AE/A					
	Valor	0.064	LB A/A					
	MSMA	2	LB A/A					
	NIS	0.25	% V/V					
2	Prowl H20	0.95	LB A/A	97 ab	96 a	97 ab	7 bcd	1943.7 bcd
	Roundup Weathermax	0.77	LB AE/A					
	Roundup Weathermax	0.77	LB AE/A					
3	Prowl H20	0.95	LB A/A	97 ab	99 a	99 a	8 abc	2327.1 abc
	Roundup Weathermax	0.77	LB AE/A					
	Dual Magnum	1	LB A/A					
	Valor	0.064	LB A/A					
	MSMA	2	LB A/A					
	NIS	0.25	% V/V					
4	Prowl H20	0.95	LB A/A	95 ab	96 a	99 a	8 a-d	2255.4 a-d
	Roundup Weathermax	0.77	LB AE/A					
	Dual Magnum	1	LB A/A					
	Roundup Weathermax	0.77	LB AE/A					
5	Prowl H20	0.95	LB A/A	99 a	99 a	99 a	8 abc	2365.8 abc
	Roundup Weathermax	0.77	LB AE/A					
	Prowl H20	0.95	LB A/A					
	Valor	0.064	LB A/A					
	MSMA	2	LB A/A					
	NIS	0.25	% V/V					
6	Prowl H20	0.95	LB A/A	99 a	96 a	99 a	8 ab	2416.1 ab
	Roundup Weathermax	0.77	LB AE/A					
	Prowl H20	0.95	LB A/A					
	Roundup Weathermax	0.77	LB AE/A					
7	Prowl H20	0.95	LB A/A	99 a	99 a	99 a	9 a	2549.7 a
	Cotoran	1	LB A/A					
	Roundup Weathermax	0.77	LB AE/A					
	Valor	0.064	LB A/A					
	MSMA	2	LB A/A					
	NIS	0.25	% V/V					
8	Prowl H20	0.95	LB A/A	97 ab	97 a	99 a	8 ab	2406.4 ab
	Cotoran	1	LB A/A					
	Roundup Weathermax	0.77	LB AE/A					
	Roundup Weathermax	0.77	LB AE/A					
9	Prowl H20	0.95	LB A/A	93 ab	99 a	99 a	8 abc	2379.3 abc
	Cotoran	1	LB A/A					
	Roundup Weathermax	0.77	LB AE/A					
	Dual Magnum	1	LB A/A					
	Valor	0.064	LB A/A					
	MSMA	2	LB A/A					
	NIS	0.25	% V/V					
10	Prowl H20	0.95	LB A/A	95 ab	98 a	99 a	8 abc	2360.0 abc
	Cotoran	1	LB A/A					
	Roundup Weathermax	0.77	LB AE/A					
	Dual Magnum	1	LB A/A					
	Roundup Weathermax	0.77	LB AE/A					

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Weed Code				DIGSA	RCHSC	RCHSC	SEED	SEED
Crop Code							GOSHI	GOSHI
Rating Data Type				%	%	%	lb	lb
Rating Unit				control	control	control	plot	acre
Rating Date				Sep-03-07	Jun-16-07	Sep-03-07	Sep-26-07	Sep-26-07
Trt-Eval Interval				79 DA-C	27 DA-B	79 DA-C	102 DA-C	102 DA-C
ARM Action Codes								TY1
# Subsamples, Dec.								1
Trt No.	Treatment Name	Rate	Unit	22	23	24	25	26
11	Prowl H20	0.95	LB A/A	97 ab	99 a	99 a	8 a-d	2222.5 a-d
	Cotoran	1	LB A/A					
	Roundup Weathermax	0.77	LB AE/A					
	Prowl H20	0.95	LB A/A					
	Valor	0.064	LB A/A					
	MSMA	2	LB A/A					
	NIS	0.25	% V/V					
12	Prowl H20	0.95	LB A/A	96 ab	99 a	99 a	8 abc	2347.4 abc
	Cotoran	1	LB A/A					
	Roundup Weathermax	0.77	LB AE/A					
	Prowl H20	0.95	LB A/A					
	Roundup Weathermax	0.77	LB AE/A					
13	Reflex	0.375	LB A/A	79 cde	99 a	99 a	7 bcd	1930.2 bcd
	Roundup Weathermax	0.77	LB AE/A					
	Valor	0.064	LB A/A					
	MSMA	2	LB A/A					
	NIS	0.25	% V/V					
14	Reflex	0.375	LB A/A	86 a-d	99 a	95 abc	6 cde	1877.9 cde
	Roundup Weathermax	0.77	LB AE/A					
	Roundup Weathermax	0.77	LB AE/A					
15	Reflex	0.375	LB A/A	92 ab	99 a	99 a	7 a-d	2158.6 a-d
	Roundup Weathermax	0.77	LB AE/A					
	Dual Magnum	1	LB A/A					
	Valor	0.064	LB A/A					
	MSMA	2	LB A/A					
	NIS	0.25	% V/V					
16	Reflex	0.375	LB A/A	96 ab	99 a	99 a	7 a-d	2172.2 a-d
	Roundup Weathermax	0.77	LB AE/A					
	Dual Magnum	1	LB A/A					
	Roundup Weathermax	0.77	LB AE/A					
17	Reflex	0.375	LB A/A	99 a	98 a	99 a	8 ab	2396.8 ab
	Roundup Weathermax	0.77	LB AE/A					
	Prowl H20	0.95	LB A/A					
	Valor	0.064	LB A/A					
	MSMA	2	LB A/A					
	NIS	0.25	% V/V					
18	Reflex	0.375	LB A/A	99 a	99 a	99 a	8 ab	2394.8 ab
	Roundup Weathermax	0.77	LB AE/A					
	Prowl H20	0.95	LB A/A					
	Roundup Weathermax	0.77	LB AE/A					
19	No PRE			47 f	81 b	93 abc	5 e	1442.3 e
	Roundup Weathermax	0.77	LB AE/A					
	Valor	0.064	LB A/A					
	MSMA	2	LB A/A					
	NIS	0.25	% V/V					
20	No PRE			84 b-e	95 a	95 abc	7 bcd	1910.8 bcd
	Roundup Weathermax	0.77	LB AE/A					
	Roundup Weathermax	0.77	LB AE/A					

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Weed Code	DIGSA	RCHSC	RCHSC	SEED	SEED		
Crop Code				GOSHI	GOSHI		
Rating Data Type	%	%	%	lb	lb		
Rating Unit	control	control	control	plot	acre		
Rating Date	Sep-03-07	Jun-16-07	Sep-03-07	Sep-26-07	Sep-26-07		
Trt-Eval Interval	79 DA-C	27 DA-B	79 DA-C	102 DA-C	102 DA-C		
ARM Action Codes					TY1		
# Subsamples, Dec.					1		
Trt Treatment							
No. Name	Rate	Unit	22	23	24	25	26
21 No PRE			73 e	95 a	97 ab	7 bcd	1996.0 bcd
Roundup Weathermax	0.77	LB AE/A					
Dual Magnum	1	LB A/A					
Valor	0.064	LB A/A					
MSMA	2	LB A/A					
NIS	0.25	% V/V					
22 No PRE			78 de	96 a	90 c	8 a-d	2189.6 a-d
Roundup Weathermax	0.77	LB AE/A					
Dual Magnum	1	LB A/A					
Roundup Weathermax	0.77	LB AE/A					
23 No PRE			99 a	97 a	99 a	7 a-d	2096.7 a-d
Roundup Weathermax	0.77	LB AE/A					
Prowl H20	0.95	LB A/A					
Valor	0.064	LB A/A					
MSMA	2	LB A/A					
NIS	0.25	% V/V					
24 No PRE			90 abc	96 a	98 ab	7 a-d	2141.2 a-d
Roundup Weathermax	0.77	LB AE/A					
Prowl H20	0.95	LB A/A					
Roundup Weathermax	0.77	LB AE/A					
25 Untreated			0 g	0 c	0 d	0 f	0.0 f
LSD (P=.05)	11.4	8.9	5.0	1.5	426.48		
Standard Deviation	6.9	5.4	3.0	0.9	258.45		
CV	7.97	5.81	3.24	12.4	12.4		
Bartlett's X2	20.828	50.248	14.269	40.45	40.449		
P(Bartlett's X2)	0.234	0.001*	0.047*	0.014*	0.014*		

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

Column 26: TY1 = 290.4*[C25]

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MAINTENANCE

Field Prep./Maintenance:

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

SOIL DESCRIPTION

% Sand: 94	% OM: 1.3	Texture: sand	
% Silt: 2	pH: 6.4	Soil Name: Tifton sandy loam	
% Clay: 4	CEC: _____	Fert. Level: _____	

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

No.	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: Dry but trial was irrigated

Closest Weather Station: UGA Ponder Research Farm Distance: 0.5 Unit: mi

APPLICATION DESCRIPTION

	A	B	C
Application Date:	May-01-07	May-20-07	Jun-16-07
Time of Day:	7:00 pm	9:00 am	8:00 am
Application Method:	broadcast	broadcast	broadcast
Application Timing:	PRE	POST-ap B	Layby
Applic. Placement:	on soil	overtop	directed
Air Temp., Unit:	90 F	68 F	87 F
% Relative Humidity:	30	64	53
Wind Velocity, Unit:	3 mph	4 mph	3 mph
Dew Presence (Y/N):	N	N	N
Water Hardness:			
Soil Temp., Unit:	84 F	71 F	
Soil Moisture:	moist	moist	fair
% Cloud Cover:	0	0	0

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	GOSHI PRE	GOSHI POST	GOSHI Layby
Stage Scale:	not up	2-3 leaf	12 leaf
Height, Unit:	0 in	3 in	15 inch

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WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	AMAPA PRE	AMAPA POST	AMAPA Layby
Stage Scale:	not up	2-4 in	up to 5in
Density, Unit:	0 ydsq	15 ydsq	3 ydsq
Weed 2 Code, Stage:	RCHSC PRE	RCHSC POST	RCHSC Layby
Stage Scale:	not up	0.5-2 in	up to 10"
Density, Unit:	0 ydsq	2 ydsq	1 ydsq
Weed 3 Code, Stage:	IAQTA PRE	IAQTA POST	IAQTA Layby
Stage Scale:	not up	2-4 in	up to 10"
Density, Unit:	0 ydsq	2 ydsq	2 ydsq
Weed 4 Code, Stage:	DIGSA PRE	DIGSA POST	DIGSA Layby
Stage Scale:	not up	2-4 in	up to 6"
Density, Unit:	0 ydsq	15 ydsq	12 ydsq

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	backpack	backpack	backpack
Operating Pressure:	24	24	26
Nozzle Type:	flat fan	flat fan	floodjet
Nozzle Size:	11002	11002	TK 2
Nozzle Spacing, Unit:	18 in	18 in	36 in
Nozzles/Row:	2	2	1
Band Width, Unit:			
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
Incorporation Equip.:			
Hours to Incorp.:			
Incorp. Depth, Unit:			
Carrier:	water	water	water
Spray Volume, Unit:	15 GPA	14.8 GPA	15 GPA
Spray pH:			
Propellant:	CO2	CO2	CO2
Tank Mix (Y/N):			

Trt No	Treatment Application Comment