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Broccoli and cabbage response to Goal and Dual overtop of mulch.

Trial ID: Veg34-08 Study Dir.: Stanley Culpepper
Location: Ponder farm Investigator: Stanley Culpepper

Reps: 3 Plots: 12 by 15 feet
Spray vol: 14.8 gal/ac Mix size: 1 liters (min .69451)

Trt 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
1	No herbicide No holes in mulch									101	209	307
2	No herbicide Holes in mulch									102	208	310
3	Goal No holes in mulch	4	F		1	PT/A	preplant	A A	8.445 ml/mx	103	201	303
4	Goal Holes in mulch	4	F		1	PT/A	preplant	A A	8.445 ml/mx	104	206	304
5	Goal No holes in mulch	4	F		2	PT/A	preplant	A A	16.89 ml/mx	105	207	301
6	Goal Holes in mulch	4	F		2	PT/A	preplant	A A	16.89 ml/mx	106	202	308
7	Dual Magnum No holes in mulch	7.62	L		1	PT/A	preplant	A A	8.445 ml/mx	107	205	306
8	Dual Magnum Holes in mulch	7.62	L		1	PT/A	preplant	A A	8.445 ml/mx	108	210	305
9	Dual Magnum	7.62	L		1	PT/A	POST	B	8.445 ml/mx	109	204	302
10	Dual Magnum	7.62	L		2	PT/A	POST	B	16.89 ml/mx	110	203	309

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
63.338	ml	Goal	4	F	
52.782	ml	Dual Magnum	7.62	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.

Trial Comments

OBJECTIVE: Determine cabbage and broccoli response to Dual or Goal applied pretransplant.

BROCCOLI RESPONSE:
1. Visual injury was less than 6% with Dual Magnum. Holes pre-punched in mulch did not impact injury.
2. Injury to Goal was dependent on rate. Injury was minor with 1 pt/A but did reach 12% with 2 pt/A of Goal 4F. Holes prepunched in the mulch had little impact.
3. Ten plants per plot were measured twice during the season. At one month after planting, treatments did not impact plant growth. However, plants were shorter at 6 WAP when Goal or Dual were applied in plots with prepunched holes.
4. No impact on yield was noted with any treatment.

CABBAGE RESPONSE:
1. Visual injury was less than 7% with Dual Magnum. Holes pre-punched in mulch did not impact injury.
2. Injury to Goal was significant and at least 20% at 9 DAT. Injury was likely volatility of the product from the mulch. A rate response was noted and there was only a slight trend for higher injury with prepunched holes.
3. Ten plants per plot were measured twice during the season. At one month after planting, Goal at 2 pt reduced growth regardless of hole punching process (a similar trend was noted with 1 pt/A).

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4. Yield was reduced by 2 pt/A of Goal regardless of hole punching. A similar trend was noted with 1 pt/A of Goal.

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Trial ID: Veg34-08 Study Dir.: Stanley Culpepper
Location: Ponder farm Investigator: Stanley Culpepper

Trt No.	Treatment Name	Rate	Rate Unit	1	2	3	4	6	7	8	9
	Weed Code			BRSOK	BRSOK	BRSOK	BRSOK	BRSOL	BRSOL	BRSOL	BRSOL
	Crop Code			injury	injury	injury	injury	injury	injury	injury	injury
	Rating Data Type			%	%	%	%	%	%	%	%
	Rating Unit			Oct-21-07	Oct-27-07	Nov-10-07	Dec-01-07	Oct-21-07	Oct-27-07	Nov-10-07	Dec-01-07
	Rating Date			SC	SC	SC	SC	SC	SC	SC	SC
	Assessed By			9 DA-A	15 DA-A	20 DA-B	41 DA-B	9 DA-A	6 DA-B	20 DA-B	41 DA-B
	Trt-Eval Interval										
	ARM Action Codes										
1	No herbicide No holes in mulch			0 d	0 c	0 c	0 a	0 c	0 c	0 c	0 c
2	No herbicide Holes in mulch			0 d	0 c	0 c	0 a	0 c	0 c	0 c	0 c
3	Goal No holes in mulch	1	PT/A	9 bc	4 bc	4 abc	0 a	22 b	21 b	14 b	3 bc
4	Goal Holes in mulch	1	PT/A	7 c	9 b	8 ab	6 a	21 b	20 b	17 b	6 bc
5	Goal No holes in mulch	2	PT/A	12 a	8 b	8 ab	3 a	25 ab	42 a	25 a	11 ab
6	Goal Holes in mulch	2	PT/A	10 ab	13 a	10 a	5 a	30 a	43 a	28 a	18 a
7	Dual Magnum No holes in mulch	1	PT/A	0 d	0 c	0 c	2 a	0 c	4 c	5 c	5 bc
8	Dual Magnum Holes in mulch	1	PT/A	0 d	4 bc	6 abc	3 a	0 c	6 c	5 c	0 c
9	Dual Magnum	1	PT/A	0 d	2 c	5 abc	3 a	0 c	0 c	2 c	0 c
10	Dual Magnum	2	PT/A	0 d	0 c	2 bc	2 a	0 c	0 c	2 c	2 c
	LSD (P=.05)			2.4	4.4	6.6	7.1	5.9	10.5	6.4	8.0
	Standard Deviation			1.4	2.6	3.8	4.1	3.5	6.1	3.7	4.6
	CV			37.25	63.89	90.26	176.51	35.51	44.56	38.12	103.95
	Bartlett's X2			4.104	1.335	2.874	1.861	0.478	2.434	1.775	4.066
	P(Bartlett's X2)			0.25	0.931	0.824	0.932	0.787	0.786	0.971	0.54

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

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Weed Code				plant 1	plant 2	plant 3	plant 4	plant 5	plant 6	plant 7	plant 8
Crop Code				BRSOK	BRSOK	BRSOK	BRSOK	BRSOK	BRSOK	BRSOK	BRSOK
Rating Data Type				ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit				cm	cm	cm	cm	cm	cm	cm	cm
Rating Date				Nov-05-07	Nov-05-07	Nov-05-07	Nov-05-07	Nov-05-07	Nov-05-07	Nov-05-07	Nov-05-07
Assessed By											
Trt-Eval Interval											
ARM Action Codes											
Trt No.	Treatment Name	Rate	Rate Unit	11	12	13	14	15	16	17	18
1	No herbicide No holes in mulch			20 a	20 ab	19 ab	21 a	22 a	19 ab	19 a	16 a
2	No herbicide Holes in mulch			18 a	23 a	18 ab	20 a	18 ab	19 ab	19 a	18 a
3	Goal No holes in mulch	1	PT/A	17 a	18 ab	18 ab	17 a	19 ab	14 b	18 ab	16 a
4	Goal Holes in mulch	1	PT/A	14 a	11 b	17 ab	17 a	14 b	18 ab	18 ab	18 a
5	Goal No holes in mulch	2	PT/A	15 a	15 ab	16 ab	15 a	17 ab	18 ab	14 b	15 a
6	Goal Holes in mulch	2	PT/A	15 a	16 ab	15 b	18 a	15 b	17 ab	17 ab	17 a
7	Dual Magnum No holes in mulch	1	PT/A	14 a	18 ab	16 ab	20 a	18 ab	20 ab	17 ab	18 a
8	Dual Magnum Holes in mulch	1	PT/A	18 a	17 ab	16 ab	15 a	19 ab	19 ab	18 ab	17 a
9	Dual Magnum	1	PT/A	16 a	19 ab	17 ab	19 a	19 ab	16 ab	17 ab	15 a
10	Dual Magnum	2	PT/A	16 a	20 ab	20 a	17 a	18 ab	22 a	18 ab	17 a
LSD (P=.05)				5.2	8.3	4.4	5.1	5.4	5.5	4.3	5.5
Standard Deviation				3.0	4.8	2.6	3.0	3.2	3.2	2.5	3.2
CV				18.47	27.09	14.91	16.66	17.55	17.65	14.22	19.36
Bartlett's X2				7.392	19.535	9.598	11.504	11.413	7.491	7.711	5.944
P(Bartlett's X2)				0.596	0.021*	0.384	0.175	0.248	0.586	0.462	0.745

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

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Weed Code				plant 9	plant 10	AVG10PLA	plant 1	plant 2	plant 3	plant 4	plant 5
Crop Code				BRSOK	BRSOK	BRSOK	BRSOK	BRSOK	BRSOK	BRSOK	BRSOK
Rating Data Type				ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit				cm	cm	cm	cm	cm	cm	cm	cm
Rating Date				Nov-05-07	Nov-05-07	Nov-05-07	Nov-20-07	Nov-20-07	Nov-20-07	Nov-20-07	Nov-20-07
Assessed By											
Trt-Eval Interval											
ARM Action Codes						T1					
Trt No.	Treatment Name	Rate	Rate Unit	19	20	21	23	24	25	26	27
1	No herbicide No holes in mulch			20 a	15 a	19 a	34 a	30 ab	31 a	33 a	31 a
2	No herbicide Holes in mulch			12 b	18 a	18 abc	31 a	26 abc	31 a	30 a	32 a
3	Goal No holes in mulch	1	PT/A	16 ab	18 a	17 abc	32 a	34 a	27 ab	32 a	25 a
4	Goal Holes in mulch	1	PT/A	17 ab	20 a	16 bc	28 a	19 c	17 b	26 a	25 a
5	Goal No holes in mulch	2	PT/A	18 ab	16 a	16 c	29 a	25 bc	24 ab	32 a	32 a
6	Goal Holes in mulch	2	PT/A	18 ab	18 a	16 bc	27 a	21 c	25 ab	26 a	26 a
7	Dual Magnum No holes in mulch	1	PT/A	17 ab	15 a	17 abc	30 a	25 bc	28 ab	29 a	30 a
8	Dual Magnum Holes in mulch	1	PT/A	18 ab	18 a	17 abc	30 a	26 abc	29 ab	29 a	30 a
9	Dual Magnum	1	PT/A	16 ab	18 a	17 abc	30 a	24 bc	31 ab	25 a	27 a
10	Dual Magnum	2	PT/A	18 ab	17 a	18 ab	29 a	25 bc	30 ab	28 a	28 a
LSD (P=.05)				5.5	5.5	2.0	7.9	8.2	12.3	7.4	7.3
Standard Deviation				3.2	3.2	1.2	4.6	4.8	7.2	4.3	4.3
CV				18.86	18.24	6.66	15.32	18.72	26.25	14.87	14.91
Bartlett's X2				16.642	5.274	3.611	11.283	7.558	17.991	23.766	5.238
P(Bartlett's X2)				0.055	0.728	0.935	0.257	0.579	0.035*	0.005*	0.813

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

Column 19: T1 = @AVG([C11].[C20])

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Weed Code				plant 6	plant 7	plant 8	plant 9	plant 10	AVG10PLA	plant 1	plant 2
Crop Code				BRSOK	BRSOK	BRSOK	BRSOK	BRSOK	BRSOK	BRSOL	BRSOL
Rating Data Type				ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit				cm	cm	cm	cm	cm	cm	cm	cm
Rating Date				Nov-20-07	Nov-20-07	Nov-20-07	Nov-20-07	Nov-20-07	Nov-20-07	Nov-05-07	Nov-05-07
Assessed By											
Trt-Eval Interval											
ARM Action Codes											
Trt No.	Treatment Name	Rate	Rate Unit	28	29	30	31	32	33	35	36
1	No herbicide No holes in mulch			33 a	32 a	33 a	29 a	29 ab	31 a	16 a	18 a
2	No herbicide Holes in mulch			30 a	25 a	25 a	29 a	28 ab	29 ab	14 ab	16 ab
3	Goal No holes in mulch	1	PT/A	30 a	30 a	29 a	30 a	30 ab	30 ab	13 ab	15 ab
4	Goal Holes in mulch	1	PT/A	25 a	26 a	29 a	24 a	26 ab	24 c	14 ab	14 ab
5	Goal No holes in mulch	2	PT/A	27 a	29 a	28 a	27 a	35 a	29 ab	8 b	14 ab
6	Goal Holes in mulch	2	PT/A	25 a	28 a	29 a	29 a	27 ab	26 bc	16 a	12 b
7	Dual Magnum No holes in mulch	1	PT/A	30 a	31 a	27 a	27 a	26 ab	28 ab	16 a	16 ab
8	Dual Magnum Holes in mulch	1	PT/A	27 a	29 a	27 a	29 a	29 ab	29 ab	14 ab	15 ab
9	Dual Magnum	1	PT/A	30 a	28 a	27 a	25 a	25 b	27 bc	13 ab	14 ab
10	Dual Magnum	2	PT/A	31 a	31 a	27 a	27 a	29 ab	28 ab	15 ab	18 a
LSD (P=.05)				8.1	8.0	8.6	11.0	7.6	3.5	6.2	4.3
Standard Deviation				4.7	4.7	5.0	6.4	4.4	2.0	3.6	2.5
CV				16.35	16.22	17.96	23.18	15.61	7.24	25.8	16.42
Bartlett's X2				13.379	11.54	9.419	7.909	12.114	14.918	11.326	7.922
P(Bartlett's X2)				0.146	0.241	0.40	0.543	0.207	0.093	0.254	0.542

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

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Weed Code				plant 3	plant 4	plant 5	plant 6	plant 7	plant 8	plant 9	plant 10
Crop Code				BRSOL	BRSOL	BRSOL	BRSOL	BRSOL	BRSOL	BRSOL	BRSOL
Rating Data Type				ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit				cm	cm	cm	cm	cm	cm	cm	cm
Rating Date				Nov-05-07	Nov-05-07	Nov-05-07	Nov-05-07	Nov-05-07	Nov-05-07	Nov-05-07	Nov-05-07
Assessed By											
Trt-Eval Interval											
ARM Action Codes											
Trt No.	Treatment Name	Rate	Rate Unit	37	38	39	40	41	42	43	44
1	No herbicide No holes in mulch			18 a	16 a	18 a	15 a	14 a	14 a	15 a	11 b
2	No herbicide Holes in mulch			17 a	14 a	18 a	17 a	16 a	14 a	15 a	16 a
3	Goal No holes in mulch	1	PT/A	14 ab	13 a	17 a	15 a	16 a	15 a	15 a	16 a
4	Goal Holes in mulch	1	PT/A	12 ab	16 a	16 a	16 a	17 a	15 a	13 a	14 ab
5	Goal No holes in mulch	2	PT/A	12 ab	13 a	7 b	10 b	13 a	12 a	12 a	14 ab
6	Goal Holes in mulch	2	PT/A	9 b	16 a	13 a	7 b	15 a	10 a	10 a	13 ab
7	Dual Magnum No holes in mulch	1	PT/A	16 ab	13 a	15 a	16 a	14 a	14 a	12 a	12 ab
8	Dual Magnum Holes in mulch	1	PT/A	16 ab	15 a	16 a	15 a	10 a	14 a	15 a	15 ab
9	Dual Magnum	1	PT/A	15 ab	15 a	16 a	16 a	16 a	15 a	15 a	14 ab
10	Dual Magnum	2	PT/A	13 ab	15 a	18 a	15 a	17 a	15 a	14 a	13 ab
LSD (P=.05)				6.2	3.8	4.8	3.6	6.0	4.4	6.7	3.6
Standard Deviation				3.6	2.2	2.8	2.1	3.5	2.5	3.9	2.1
CV				25.55	15.2	18.04	14.97	23.81	18.25	28.55	15.28
Bartlett's X2				16.863	13.809	12.703	13.585	21.187	6.355	12.775	4.533
P(Bartlett's X2)				0.051	0.129	0.177	0.138	0.012*	0.704	0.173	0.873

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

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Trt No.	Treatment Name	Rate	Rate Unit	45	47	48	49	50	51	52	53
	Weed Code			AVG10PLA	plant 1	plant 2	plant 3	plant 4	plant 5	plant 6	plant 7
	Crop Code			BRSOL	BRSOL	BRSOL	BRSOL	BRSOL	BRSOL	BRSOL	BRSOL
	Rating Data Type			ht	ht	ht	ht	ht	ht	ht	ht
	Rating Unit			cm	cm	cm	cm	cm	cm	cm	cm
	Rating Date			Nov-05-07	Nov-20-07	Nov-20-07	Nov-20-07	Nov-20-07	Nov-20-07	Nov-20-07	Nov-20-07
	Assessed By										
	Trt-Eval Interval										
	ARM Action Codes			T2							
1	No herbicide No holes in mulch			16 a	24 a	22 ab	26 a	23 a	24 a	23 a	23 a
2	No herbicide Holes in mulch			16 a	22 abc	21 abc	22 a	17 a	21 a	20 a	21 a
3	Goal No holes in mulch	1	PT/A	15 a	25 a	22 ab	20 ab	20 a	21 a	19 ab	21 a
4	Goal Holes in mulch	1	PT/A	15 a	15 c	16 bc	20 ab	18 a	20 a	21 a	16 a
5	Goal No holes in mulch	2	PT/A	12 b	17 bc	18 abc	20 ab	18 a	19 a	11 b	19 a
6	Goal Holes in mulch	2	PT/A	12 b	19 abc	15 c	19 ab	18 a	19 a	21 a	17 a
7	Dual Magnum No holes in mulch	1	PT/A	14 a	23 ab	23 a	24 a	22 a	23 a	17 ab	20 a
8	Dual Magnum Holes in mulch	1	PT/A	15 a	21 abc	20 abc	12 b	20 a	21 a	20 a	21 a
9	Dual Magnum	1	PT/A	15 a	22 ab	23 a	24 a	23 a	21 a	23 a	21 a
10	Dual Magnum	2	PT/A	15 a	21 abc	24 a	25 a	24 a	23 a	25 a	21 a
	LSD (P=.05)			1.5	6.4	5.7	7.6	7.4	5.1	7.3	6.1
	Standard Deviation			0.9	3.7	3.3	4.4	4.3	3.0	4.3	3.6
	CV			5.96	17.92	16.21	20.91	21.26	13.98	21.45	17.76
	Bartlett's X2			8.607	7.309	10.279	15.325	10.505	10.168	19.362	16.947
	P(Bartlett's X2)			0.474	0.605	0.328	0.082	0.311	0.337	0.022*	0.05*

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)
Column 41: T2 = @AVG([C35].[C44])

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Weed Code Crop Code Rating Data Type Rating Unit Rating Date Assessed By Trt-Eval Interval ARM Action Codes			plant 8 BRSOL ht cm Nov-20-07	plant 9 BRSOL ht cm Nov-20-07	plant 10 BRSOL ht cm Nov-20-07	AVG10PLA BRSOL ht cm Nov-20-07	harv 1 BRSOK # per plot Jan-07-08	harv 1 BRSOK wt/lb per plot Jan-07-08	harv 1 BRSOL # per plot Jan-22-08	harv 1 BRSOL wt/lb per plot Jan-22-08
Trt No.	Treatment Name	Rate Rate Unit	54	55	56	57	59	60	62	63
1	No herbicide No holes in mulch		23 a	24 a	26 a	24 a	12 a	4 a	3 b-e	4 bcd
2	No herbicide Holes in mulch		23 a	20 a	18 b	20 abc	11 a	4 a	4 ab	7 ab
3	Goal No holes in mulch	1 PT/A	21 a	20 a	17 b	21 abc	10 a	4 a	0 de	0 cd
4	Goal Holes in mulch	1 PT/A	18 a	22 a	20 ab	19 bc	11 a	4 a	2 b-e	3 bcd
5	Goal No holes in mulch	2 PT/A	19 a	13 b	17 b	17 c	10 a	4 a	1 cde	1 cd
6	Goal Holes in mulch	2 PT/A	20 a	20 a	20 ab	19 bc	11 a	3 a	0 e	0 d
7	Dual Magnum No holes in mulch	1 PT/A	24 a	22 a	24 ab	22 ab	10 a	4 a	4 abc	6 abc
8	Dual Magnum Holes in mulch	1 PT/A	23 a	21 a	23 ab	20 abc	11 a	4 a	5 ab	8 ab
9	Dual Magnum	1 PT/A	21 a	23 a	22 ab	22 ab	11 a	4 a	7 a	11 a
10	Dual Magnum	2 PT/A	23 a	23 a	24 ab	23 a	11 a	4 a	4 a-d	6 abc
LSD (P=.05)			4.7	5.6	7.0	3.5	2.2	1.2	3.2	5.0
Standard Deviation			2.7	3.3	4.1	2.0	1.3	0.7	1.9	2.9
CV			12.66	15.79	19.3	9.78	11.79	17.78	62.23	62.78
Bartlett's X2			23.378	11.857	6.164	16.533	4.528	5.609	9.568	10.139
P(Bartlett's X2)			0.005*	0.222	0.723	0.057	0.807	0.778	0.297	0.255

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

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Weed Code			harv 2	harv 2	harv 3	harv 3	harv 4	harv 4	harv1-2	harv1-2
Crop Code			BRSOL	BRSOL	BRSOL	BRSOL	BRSOL	BRSOL	BRSOL	BRSOL
Rating Data Type			#	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb
Rating Unit			per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot
Rating Date			Jan-30-08	Jan-30-08	Feb-04-08	Feb-04-08	Feb-12-08	Feb-12-08	Feb-12-08	Feb-12-08
Assessed By										
Trt-Eval Interval										
ARM Action Codes									T3	T4
Trt No.	Treatment Name	Rate / Unit	64	65	66	67	68	69	70	71
1	No herbicide No holes in mulch		1 abc	2 ab	6 a	9 a	0 e	0 c	4 bcd	6 bcd
2	No herbicide Holes in mulch		2 ab	3 ab	2 cd	3 cd	1 de	1 c	6 ab	10 ab
3	Goal No holes in mulch	1 PT/A	1 abc	1 ab	5 ab	7 ab	3 bc	4 ab	1 d	1 d
4	Goal Holes in mulch	1 PT/A	0 bc	0 b	4 abc	6 abc	2 cd	3 bc	3 cd	4 cd
5	Goal No holes in mulch	2 PT/A	0 c	0 b	3 bcd	4 bcd	5 a	7 a	1 d	1 d
6	Goal Holes in mulch	2 PT/A	1 abc	1 ab	3 a-d	5 a-d	4 ab	5 ab	1 d	1 d
7	Dual Magnum No holes in mulch	1 PT/A	2 abc	2 ab	2 cd	3 cd	2 de	3 bc	6 abc	8 abc
8	Dual Magnum Holes in mulch	1 PT/A	1 abc	1 ab	3 bcd	4 bcd	0 de	0 c	6 ab	9 ab
9	Dual Magnum	1 PT/A	1 abc	2 ab	1 d	2 d	0 e	0 c	8 a	13 a
10	Dual Magnum	2 PT/A	2 a	3 a	4 a-d	6 a-d	0 e	0 c	6 ab	9 ab
LSD (P=.05)			1.7	2.4	2.5	3.8	1.6	2.9	2.9	4.6
Standard Deviation			1.0	1.4	1.5	2.2	0.9	1.7	1.7	2.7
CV			89.89	95.66	44.94	46.1	53.46	69.8	41.0	43.16
Bartlett's X2			5.416	7.576	12.588	16.728	5.474	5.466	10.631	24.665
P(Bartlett's X2)			0.712	0.476	0.182	0.053	0.485	0.486	0.224	0.003*

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)
Column 63: T3 = ([C62]+[C64])
Column 64: T4 = ([C63]+[C65])

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Trt No.	Treatment Name	Rate	Rate Unit	harv1-4 BRSOL # per plot Feb-12-08 T5 72	harv1-4 BRSOL wt/lb per plot Feb-12-08 T6 73
1	No herbicide No holes in mulch			9 a	14 ab
2	No herbicide Holes in mulch			9 a	14 ab
3	Goal No holes in mulch	1	PT/A	10 a	13 ab
4	Goal Holes in mulch	1	PT/A	9 a	13 abc
5	Goal No holes in mulch	2	PT/A	8 ab	12 bc
6	Goal Holes in mulch	2	PT/A	8 b	11 c
7	Dual Magnum No holes in mulch	1	PT/A	9 a	14 ab
8	Dual Magnum Holes in mulch	1	PT/A	9 a	14 ab
9	Dual Magnum	1	PT/A	9 a	14 ab
10	Dual Magnum	2	PT/A	10 a	15 a
LSD (P=.05)				1.2	2.4
Standard Deviation				0.7	1.4
CV				7.83	10.25
Bartlett's X2				2.598	5.394
P(Bartlett's X2)				0.957	0.799

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)
Column 65: T5 = ([C62]+[C64]+[C66]+[C68])
Column 66: T6 = ([C63]+[C65]+[C67]+[C69])

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Broccoli and cabbage response to Goal and Dual overtop of mulch.

Trial ID: Veg34-08 Study Dir.: Stanley Culpepper
Location: Ponder farm Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

Study Director: Stanley Culpepper **Title:** Ext. Weed Science
Affiliation: University of Georgia
Postal Code: 31794

Investigator: Stanley Culpepper **Title:** Ext. Weed Science
Affiliation: University of Georgia
Postal Code: 31794

TRIAL LOCATION

City: TyTy **Trial Status:** completed
State/Prov.: Ga **Trial Reliability:** good
Postal Code: 31795 **Initiation Date:** Oct-12-07
Country: USA **Planned Completion Date:** _____
E-Longitude of LL Corner °: _____ **N-Latitude of LL Corner °:** _____
Altitude of LL Corner: _____ **Unit:** _____ **Angle y-axis to North °:** _____
Directions:

COOPERATOR/LANDOWNER

Cooperator: _____ **Country:** _____
Org: _____ **Phone No:** _____
Address 1: _____ **Fax No:** _____
Address 2: _____
City: _____
State/Prov: _____
Postal Code: _____

Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N
Guidelines: _____ **Guideline Description:** _____

Objective:

Conclusions:

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.			

Crop 1: BRSOK broccli **Variety:** Marathon
Planting Date: Oct-12-07 **Planting Method:** transplant
Rate: 1 12 inch **Depth:** 1.5 in **Perennial Age:** ____ _____
Row Spacing: 6 ft **Spacing Within Row:** 12 in **Seed Bed:** mulch
Soil Temperature: 78 f **Soil Moisture:** moist **Emergence Date:** _____

Crop 2: BRSOL cabbage **Variety:** Bravo
Planting Date: Oct-12-07 **Planting Method:** transplant
Rate: 1 12 inch **Depth:** 1.5 in **Perennial Age:** ____ _____
Row Spacing: 6 ft **Spacing Within Row:** 12 in **Seed Bed:** mulch
Soil Temperature: 78 f **Soil Moisture:** moist **Emergence Date:** _____

SITE AND DESIGN

Plot Width, Unit: 12 FT **Plot Length, Unit:** 15 FT **Reps:** 3
Site Type: Ponder Farm
Tillage Type: Conventional **Study Design:** RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments:

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	Previous Crops	Previous Pesticides	Year
1.			

MAINTENANCE

Field Prep./Maintenance:

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

SOIL DESCRIPTION

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

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

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

APPLICATION DESCRIPTION

	A	B
Application Date:	Oct-12-07	Oct-21-07
Time of Day:	8:00 am	8:00 am
Application Method:	broadcast	broadcast
Application Timing:	preplant	post
Applic. Placement:	overtop	overtop
Air Temp., Unit:	59 f	63 f
% Relative Humidity:	51	61
Wind Velocity, Unit:	3 mph	0 mph
Dew Presence (Y/N):	n	y
Water Hardness:		
Soil Temp., Unit:	55 f	
Soil Moisture:	fair	moist
% Cloud Cover:	0	20

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	BRSOK preplant	BRSOK POST
Stage Scale:	not up	4 leaf
Height, Unit:	0 inch	4 inch
Crop 2 Code, Stage:	BRSOL preplant	BRSOL POST
Stage Scale:	not up	4 leaf
Height, Unit:	0 inch	4 inch

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WEED STAGE AT EACH APPLICATION

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

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	backpack	backpack
Operating Pressure:	24	24
Nozzle Type:	flat fan	flat fan
Nozzle Size:	11002	11002
Nozzle Spacing, Unit:	18 inch	18 inch
Nozzles/Row:	2	2
Band Width, Unit:		
Boom Length, Unit:	4.5 ft	4.5 ft
Boom Height, Unit:	15 inch	15 inch
Ground Speed, Unit:	3 mph	3 mph
Incorporation Equip.:		
Hours to Incorp.:		
Incorp. Depth, Unit:		
Carrier:	water	water
Spray Volume, Unit:	14.8 GPA	14.8 GPA
Spray pH:		
Propellant:	CO2	CO2
Tank Mix (Y/N):	y	y

Trt No	Treatment Application Comment