

University of Georgia

Pepper heights:

1. Ten plants per plot were measured during mid-April and early May.
2. Plant heights were not impacted in mid-April by Reflex, Eptam, Dual, or Telone.
3. By early-May, pepper heights were reduced at least 82% by Eptam. Telone II, Dual Magnum, and Reflex did not impact plant growth.

Pepper yields:

1. Jumbo pepper were harvested 5 times.
2. Reflex, Dual Magnum, and Telone had no impact on pepper production.
3. Eptam reduced pepper production at least 90%.

GENERAL COMMENTS:

1. Telone applied 12 to 14 inches deep with yetter.
2. DMDS applied 8 inches deep with supper bedder.

University of Georgia

Pepper response to DMDS or DMDS and Telone in combination with herbicides.

Trial ID: Veg14-08

Study Dir.: Edwards, Culpepper

Location: Ponder Farm 5141

Investigator: Stanley Culpepper

Weed Code	CPSAN injury percent	CPSAN injury percent	CSPAN injury percent	CPSAN injury percent	CPSAN 1 height cm	CPSAN 1 height cm	CPSAN 2 height cm	CPSAN 2 height cm
Crop Code	Apr-16-08	Apr-16-08	Apr-30-08	May-20-08	Apr-16-08	May-07-08	Apr-16-08	May-07-08
Rating Data Type	20 DA-A	20 DA-A	34 DA-A	54 DA-A	20 DA-A	41 DA-A	20 DA-A	41 DA-A
Rating Unit								
Rating Date								
Trt-Eval Interval								
ARM Action Codes								
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate
		Unit	Unit	Unit	Unit	Unit	Unit	Unit
1	DMDS 50 G Blocade Mulch No herbicide							
		0 d	0 b	0 b	0 b	16 a	31 a	19 a
2	DMDS 50 G Blocade Mulch Reflex	1 PT/A						
		0 d	2 b	0 b	0 b	18 a	30 a	16 ab
3	DMDS 50 G Blocade Mulch Eptam	3 PT/A						
		30 a	27 a	96 a	92 a	16 a	14 b	17 ab
4	DMDS 50 G Blocade Mulch Dual Magnum	1 PT/A						
		12 c	5 b	2 b	0 b	18 a	33 a	18 ab
5	DMDS 50 G Telone II 12 G No herbicide							
		2 d	0 b	0 b	0 b	16 a	31 a	18 ab
6	DMDS 50 G Telone II 12 G Reflex	1 PT/A						
		2 d	2 b	1 b	0 b	16 a	32 a	17 ab
7	DMDS 50 G Telone II 12 G Eptam	3 PT/A						
		22 b	20 a	98 a	92 a	16 a	0 c	15 b
8	DMDS 50 G Telone II 12 G Dual Magnum	1 PT/A						
		17 bc	3 b	1 b	0 b	16 a	29 a	16 ab
LSD (P=.05)		6.6	6.9	2.8	2.3	4.4	8.7	2.9
Standard Deviation		3.8	3.9	1.6	1.3	2.5	5.0	1.7
CV		36.28	53.69	6.36	5.83	15.43	19.98	9.79
Bartlett's X2		3.637	4.617	2.352	0.0	3.584	13.731	4.755
P(Bartlett's X2)		0.603	0.464	0.671	1.00	0.826	0.033*	0.69
								8.9
								5.1
								20.47
								23.26
								0.001*

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

University of Georgia

Weed Code	CPSAN 3	CPSAN 3	CPSAN 4	CPSAN 4	CPSAN 5	CPSAN 5	CPSAN 6	CPSAN 6	
Crop Code	height	height	height	height	height	height	height	height	
Rating Data Type	cm	cm	cm	cm	cm	cm	cm	cm	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Apr-16-08	May-07-08	Apr-16-08	May-07-08	Apr-16-08	May-07-08	Apr-16-08	May-07-08	
Trt-Eval Interval	20 DA-A	41 DA-A	20 DA-A	41 DA-A	20 DA-A	41 DA-A	20 DA-A	41 DA-A	
ARM Action Codes									
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	
		Unit	Unit	Unit	Unit	Unit	Unit	Unit	
		10	11	12	13	14	15	16	17
1	DMDS 50 G Blocade Mulch No herbicide	18 a	32 a	19 a	29 a	19 a	35 a	20 a	32 a
2	DMDS 50 G Blocade Mulch Reflex	18 a	33 a	20 a	32 a	19 a	35 a	15 b	28 a
3	DMDS 50 G Blocade Mulch Eptam	17 a	8 b	17 ab	8 b	16 a	6 b	15 b	7 b
4	DMDS 50 G Blocade Mulch Dual Magnum	17 a	31 a	17 ab	31 a	17 a	31 a	16 b	31 a
5	DMDS 50 G Telone II 12 G No herbicide	18 a	29 a	18 ab	31 a	17 a	32 a	17 ab	34 a
6	DMDS 50 G Telone II 12 G Reflex	16 a	30 a	18 a	31 a	17 a	32 a	18 ab	31 a
7	DMDS 50 G Telone II 12 G Eptam	17 a	6 b	15 b	0 b	16 a	0 b	18 ab	14 b
8	DMDS 50 G Telone II 12 G Dual Magnum	17 a	32 a	19 a	32 a	17 a	31 a	15 b	28 a
LSD (P=.05)		2.8	12.3	3.1	8.5	3.3	7.8	3.1	10.1
Standard Deviation		1.6	7.0	1.8	4.9	1.9	4.4	1.8	5.8
CV		9.15	28.1	10.16	20.02	10.79	17.55	10.61	22.45
Bartlett's X2		9.395	19.109	2.487	15.789	4.562	14.13	5.701	15.307
P(Bartlett's X2)		0.226	0.008*	0.928	0.015*	0.713	0.028*	0.575	0.032*

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

University of Georgia

Weed Code	CPSAN 7	CPSAN 7	CPSAN 8	CPSAN 8	CPSAN 9	CPSAN 9	CPSAN 10	CPSAN 10
Crop Code	height	height	height	height	height	height	height	height
Rating Data Type	cm	cm	cm	cm	cm	cm	cm	cm
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm
Rating Date	Apr-16-08	May-07-08	Apr-16-08	May-07-08	Apr-16-08	May-07-08	Apr-16-08	May-07-08
Trt-Eval Interval	20 DA-A	41 DA-A	20 DA-A	41 DA-A	20 DA-A	41 DA-A	20 DA-A	41 DA-A
ARM Action Codes								
Trt No.	18	19	20	21	22	23	24	25
Treatment Name								
Rate								
Rate Unit								
1 DMDS 50 G Blocade Mulch No herbicide	20 a	33 a	18 a	34 a	18 a	34 a	15 b	30 a
2 DMDS 50 G Blocade Mulch Reflex 1 PT/A	18 abc	31 a	18 a	30 a	19 a	31 a	18 ab	33 a
3 DMDS 50 G Blocade Mulch Eptam 3 PT/A	16 bc	0 b	18 a	0 b	17 a	0 b	18 ab	0 c
4 DMDS 50 G Blocade Mulch Dual Magnum 1 PT/A	15 c	31 a	17 a	30 a	18 a	33 a	18 ab	33 a
5 DMDS 50 G Telone II 12 G No herbicide	17 abc	32 a	19 a	35 a	18 a	34 a	20 a	34 a
6 DMDS 50 G Telone II 12 G Reflex 1 PT/A	19 ab	31 a	19 a	31 a	18 a	32 a	19 ab	35 a
7 DMDS 50 G Telone II 12 G Eptam 3 PT/A	17 abc	0 b	17 a	7 b	18 a	7 b	17 ab	13 b
8 DMDS 50 G Telone II 12 G Dual Magnum 1 PT/A	16 bc	30 a	17 a	27 a	17 a	28 a	18 ab	32 a
LSD (P=.05)	3.0	4.4	2.6	9.0	2.8	8.7	4.0	7.2
Standard Deviation	1.7	2.5	1.5	5.2	1.6	5.0	2.3	4.1
CV	9.93	10.63	8.31	21.32	8.9	20.06	12.93	15.77
Bartlett's X2	6.347	2.106	5.012	10.696	6.039	13.039	3.29	19.904
P(Bartlett's X2)	0.50	0.834	0.542	0.098	0.535	0.042*	0.857	0.003*

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

University of Georgia

Weed Code	AVG10PLA	AVG10PLA	CPSAN L1	CPSAN L1	CPSAN L2	CPSAN L2	CPSAN L3	CPSAN L3
Crop Code	CPSAN	CPSAN	CPSAN L1	CPSAN L1	CPSAN L2	CPSAN L2	CPSAN L3	CPSAN L3
Rating Data Type	height	height	height	height	height	height	height	height
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm
Rating Date	Apr-16-08	May-07-08	Apr-16-08	May-07-08	Apr-16-08	May-07-08	Apr-16-08	May-07-08
Trt-Eval Interval	20 DA-A	41 DA-A	20 DA-A	41 DA-A	20 DA-A	41 DA-A	20 DA-A	41 DA-A
ARM Action Codes	T1	T2						
Trt No.	26	27	29	30	31	32	33	34
Treatment Name								
Rate								
Unit								
1 DMDS 50 G Blocade Mulch No herbicide	18 a	29 a	12 a	31 a	17 a	33 a	20 a	34 a
2 DMDS 50 G Blocade Mulch Reflex 1 PT/A	18 a	28 a	18 a	32 a	18 a	34 a	20 ab	33 a
3 DMDS 50 G Blocade Mulch Eptam 3 PT/A	17 a	5 b	17 a	12 b	20 a	7 b	17 a-d	6 b
4 DMDS 50 G Blocade Mulch Dual Magnum 1 PT/A	17 a	28 a	19 a	31 a	19 a	31 a	19 abc	32 a
5 DMDS 50 G Telone II 12 G No herbicide	18 a	29 a	17 a	30 a	18 a	32 a	17 bcd	29 a
6 DMDS 50 G Telone II 12 G Reflex 1 PT/A	18 a	28 a	18 a	32 a	18 a	29 a	15 d	31 a
7 DMDS 50 G Telone II 12 G Eptam 3 PT/A	17 a	3 b	16 a	0 c	17 a	0 b	15 d	0 b
8 DMDS 50 G Telone II 12 G Dual Magnum 1 PT/A	17 a	27 a	14 a	31 a	19 a	28 a	17 cd	29 a
LSD (P=.05)	1.4	4.0	8.1	9.8	3.3	8.1	2.7	6.7
Standard Deviation	0.8	2.3	4.6	5.6	1.9	4.6	1.5	3.8
CV	4.6	10.33	28.64	22.55	10.46	19.07	8.69	15.89
Bartlett's X2	4.684	15.827	19.619	10.623	4.246	26.19	8.406	15.266
P(Bartlett's X2)	0.699	0.027*	0.006*	0.101	0.751	0.001*	0.298	0.009*

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

Column 25: T1 = ([C6]+[C8]+[C10]+[C12]+[C14]+[C16]+[C18]+[C20]+[C22]+[C24])/10

Column 26: T2 = ([C7]+[C9]+[C11]+[C13]+[C15]+[C17]+[C19]+[C21]+[C23])/10

University of Georgia

Weed Code	CPSAN L4	CPSAN L4	CPSAN L5	CPSAN 5	CPSAN L6	CPSAN L6	CPSAN L7	CPSAN 7
Crop Code	height	height	height	height	height	height	height	height
Rating Data Type	cm	cm	cm	cm	cm	cm	cm	cm
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm
Rating Date	Apr-16-08	May-07-08	Apr-16-08	May-07-08	Apr-16-08	May-07-08	Apr-16-08	May-07-08
Trt-Eval Interval	20 DA-A	41 DA-A	20 DA-A	41 DA-A	20 DA-A	41 DA-A	20 DA-A	-7264 DA
ARM Action Codes								
Trt No.	35	36	37	38	39	40	41	42
Treatment Name								
Rate								
Rate Unit								
1 DMDS 50 G Blocade Mulch No herbicide	19 a	32 a	19 a	33 a	19 a	34 a	19 a	33 a
2 DMDS 50 G Blocade Mulch Reflex 1 PT/A	19 a	34 a	18 ab	32 a	17 a	31 a	19 a	33 a
3 DMDS 50 G Blocade Mulch Eptam 3 PT/A	19 a	6 b	18 abc	6 b	19 a	8 b	17 a	6 b
4 DMDS 50 G Blocade Mulch Dual Magnum 1 PT/A	19 a	30 a	16 bc	29 a	18 a	28 a	17 a	31 a
5 DMDS 50 G Telone II 12 G No herbicide	16 ab	31 a	15 c	35 a	16 a	30 a	18 a	33 a
6 DMDS 50 G Telone II 12 G Reflex 1 PT/A	18 ab	30 a	17 abc	33 a	17 a	29 a	17 a	28 a
7 DMDS 50 G Telone II 12 G Eptam 3 PT/A	15 b	0 b	17 abc	7 b	19 a	0 b	17 a	11 b
8 DMDS 50 G Telone II 12 G Dual Magnum 1 PT/A	16 ab	34 a	17 abc	31 a	18 a	28 a	18 a	30 a
LSD (P=.05)	3.0	8.8	2.7	10.6	3.7	9.1	3.5	9.1
Standard Deviation	1.7	5.0	1.5	6.0	2.1	5.2	2.0	5.2
CV	9.69	20.44	8.73	23.33	11.99	22.11	11.22	20.2
Bartlett's X2	7.004	14.504	6.597	19.485	6.298	9.137	4.606	16.35
P(Bartlett's X2)	0.32	0.024*	0.472	0.007*	0.391	0.104	0.595	0.022*

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

University of Georgia

Weed Code	CPSAN L8	CPSAN 8	CPSAN L9	CPSAN 9	CPSANL10	CPSANL10	AVG10PLA	AVG10PLA	
Crop Code	height	height	height	height	height	height	CPSAN	CPSAN	
Rating Data Type	cm	cm	cm	cm	cm	cm	height	height	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Apr-16-08	May-07-08	Apr-16-08	May-07-08	Apr-16-08	May-07-08	Apr-16-08	May-07-08	
Trt-Eval Interval	20 DA-A	41 DA-A	20 DA-A	41 DA-A	20 DA-A	41 DA-A	20 DA-A	41 DA-A	
ARM Action Codes							T3	T4	
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	
		Unit	Unit	Unit	Unit	Unit	Unit	Unit	
43			44	45	46	47	48	49	50
1	DMDS 50 G Blocade Mulch No herbicide	18 a	30 a	18 a	31 a	19 a	32 a	18 ab	32 a
2	DMDS 50 G Blocade Mulch Reflex	19 a	34 a	18 a	31 a	20 a	31 a	19 a	33 a
3	DMDS 50 G Blocade Mulch Eptam	18 a	0 c	17 a	0 b	18 ab	7 b	18 ab	6 b
4	DMDS 50 G Blocade Mulch Dual Magnum	18 a	28 a	17 a	29 a	18 ab	32 a	18 ab	30 a
5	DMDS 50 G Telone II 12 G No herbicide	18 a	33 a	18 a	32 a	17 ab	30 a	17 ab	32 a
6	DMDS 50 G Telone II 12 G Reflex	18 a	33 a	17 a	31 a	17 ab	32 a	17 ab	31 a
7	DMDS 50 G Telone II 12 G Eptam	17 a	13 b	18 a	0 b	14 b	7 b	17 b	4 b
8	DMDS 50 G Telone II 12 G Dual Magnum	17 a	29 a	19 a	30 a	17 ab	32 a	17 ab	30 a
LSD (P=.05)		3.2	9.1	3.1	5.5	3.6	9.6	1.5	3.8
Standard Deviation		1.8	5.2	1.8	3.1	2.0	5.5	0.9	2.2
CV		10.36	20.6	10.07	13.66	11.61	21.68	4.98	8.83
Bartlett's X2		2.14	9.507	6.153	3.243	7.625	24.256	0.82	13.425
P(Bartlett's X2)		0.952	0.147	0.522	0.518	0.367	0.001*	0.997	0.062

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

Column 47: T3 = ([29]+[31]+[33]+[35]+[37]+[39]+[41]+[43]+[45]+[47])/10

Column 48: T4 = ([30]+[32]+[34]+[36]+[38]+[40]+[42]+[44]+[46]+[48])/10

University of Georgia

Weed Code	Harvest1 CPSAN	Harvest1 CPSAN	Harvest2 CPSAN	Harvest2 CPSAN	Harvest3 CPSAN	Harvest3 CPSAN	Harvest4 CPSAN	Harvest4 CPSAN	
Crop Code	#	wt (lbs)	#	wt (lbs)	#	wt (lbs)	#	wt (lbs)	
Rating Data Type	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot	
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot	
Rating Date	Jun-02-08	Jun-02-08	Jun-05-08	Jun-05-08	Jun-12-08	Jun-12-08	Jun-20-08	Jun-20-08	
Trt-Eval Interval	67 DA-A	67 DA-A	70 DA-A	70 DA-A	77 DA-A	77 DA-A	85 DA-A	85 DA-A	
ARM Action Codes									
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	
		Unit	Unit	Unit	Unit	Unit	Unit	Unit	
1	DMDS 50 G Blocade Mulch No herbicide	11 a	5 a	23 a	10 a	38 a	16 a	47 a	19 a
2	DMDS 50 G Blocade Mulch Reflex	6 a	3 a	28 a	10 a	33 a	13 a	43 a	17 a
3	DMDS 50 G Blocade Mulch Eptam	6 a	3 a	0 b	0 b	0 b	0 b	1 b	0 b
4	DMDS 50 G Blocade Mulch Dual Magnum	10 a	4 a	28 a	10 a	34 a	14 a	41 a	15 a
5	DMDS 50 G Telone II 12 G No herbicide	13 a	5 a	16 a	6 a	32 a	14 a	53 a	21 a
6	DMDS 50 G Telone II 12 G Reflex	8 a	3 a	18 a	8 a	48 a	18 a	41 a	16 a
7	DMDS 50 G Telone II 12 G Eptam	11 a	4 a	0 b	0 b	0 b	0 b	0 b	0 b
8	DMDS 50 G Telone II 12 G Dual Magnum	2 a	1 a	27 a	11 a	26 a	11 a	46 a	18 a
LSD (P=.05)		15.6	6.3	13.3	5.6	21.1	8.2	15.6	6.5
Standard Deviation		8.9	3.6	7.6	3.2	12.0	4.7	8.9	3.7
CV		106.67	105.32	43.32	46.83	45.66	43.43	26.26	27.81
Bartlett's X2		2.69	2.572	3.896	2.59	4.831	5.626	7.209	6.709
P(Bartlett's X2)		0.912	0.922	0.564	0.763	0.437	0.344	0.302	0.349

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

University of Georgia

Weed Code	Harvest5 CPSAN	Harvest5 CPSAN	Har1-2 CPSAN	Har1-2 CPSAN	Har1-5 CPSAN	Har1-5 CPSAN		
Crop Code	#	wt (lbs)	#	wt (lbs)	#	wt (lbs)		
Rating Data Type	per plot	per plot	per plot	per plot	per plot	per plot		
Rating Unit								
Rating Date	Jul-01-08	Jul-01-08						
Trt-Eval Interval	96 DA-A	96 DA-A						
ARM Action Codes			T5	T6	T7	T8		
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate		
		Unit						
1	DMDS 50 G Blocade Mulch No herbicide		9 a	4 a	34 a	14 a	128 a	53 a
2	DMDS 50 G Blocade Mulch Reflex	1 PT/A	20 a	7 a	34 a	13 a	129 a	50 a
3	DMDS 50 G Blocade Mulch Eptam	3 PT/A	5 a	2 a	6 c	3 c	13 b	5 b
4	DMDS 50 G Blocade Mulch Dual Magnum	1 PT/A	17 a	6 a	38 a	14 a	131 a	50 a
5	DMDS 50 G Telone II 12 G No herbicide		19 a	7 a	29 a	12 ab	133 a	54 a
6	DMDS 50 G Telone II 12 G Reflex	1 PT/A	14 a	5 a	26 ab	12 ab	129 a	51 a
7	DMDS 50 G Telone II 12 G Eptam	3 PT/A	5 a	2 a	11 bc	4 bc	16 b	6 b
8	DMDS 50 G Telone II 12 G Dual Magnum	1 PT/A	22 a	8 a	29 a	11 ab	123 a	48 a
LSD (P=.05)			17.7	6.4	16.3	6.9	28.4	10.7
Standard Deviation			10.1	3.6	9.3	3.9	16.2	6.1
CV			72.51	70.51	35.9	38.18	16.19	15.42
Bartlett's X2			7.642	6.617	3.198	2.559	5.916	15.48
P(Bartlett's X2)			0.365	0.47	0.866	0.923	0.433	0.03*

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

Column 59: T5 = [52]+[54]

Column 60: T6 = [53]+[55]

Column 61: T7 = [52]+[54]+[56]+[58]+[60]

Column 62: T8 = [53]+[55]+[57]+[59]+[61]

University of Georgia

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

SOIL DESCRIPTION

% Sand: 90 % OM: 1 Texture: sandy loam
 % Silt: 6 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: _____

Closest Weather Station: _____ Distance: _____ Unit: _____

APPLICATION DESCRIPTION

	A
Application Date:	Feb-19-08
Time of Day:	9 am
Application Method:	broadcast
Application Timing:	preplant
Applic. Placement:	un mulch
Air Temp., Unit:	65 F
% Relative Humidity:	74
Wind Velocity, Unit:	2 MPH
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	60 F
Soil Moisture:	moist
% Cloud Cover:	20

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	CPSAN preplant
Stage Scale:	not up
Height, Unit:	0 inch

WEED STAGE AT EACH APPLICATION

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

University of Georgia

APPLICATION EQUIPMENT

	A
Appl. Equipment:	superbedd
Operating Pressure:	24
Nozzle Type:	flat fan
Nozzle Size:	11002
Nozzle Spacing, Unit:	8 in
Nozzles/Row:	6
Band Width, Unit:	
Boom Length, Unit:	
Boom Height, Unit:	12 inch
Ground Speed, Unit:	3 mph
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	water
Spray Volume, Unit:	24 GPA
Spray pH:	
Propellant:	CO2
Tank Mix (Y/N):	Y

Trt No	Treatment Application Comment