



**2011 Bell Peppers on Plastic Budget**  
**Fumigant – 1,3-Dichloropropene plus Chloropicrin (Telone)**  
**Mulch – High Barrier Black on Black Blockade Mulch (Smooth)**

Prepared by  
**Esendugue Greg Fonsah, Agricultural and Applied Economics, UGA**  
**Myra Clarisse Ferrer, Graduate Student, Agricultural and Applied Economics, UGA**

**Table 1.** Yields and prices of producing bell peppers with 1,3-dichloropropene plus chloropicrin on high barrier black on black blockade mulch (Smooth) in Georgia.

	<b>BEST</b>	<b>OPTIMISTIC</b>	<b>MEDIAN</b>	<b>PESSIMISTIC</b>	<b>WORST</b>
Yield (cartons)	1794	1611	1428.16	1245.19	1062
Price per carton	16.00	14.00	12.00	10.00	8.00

**Table 2.** Pre-harvesting variable cost of producing bell peppers with 1,3-dichloropropene plus chloropicrin on high barrier black on black blockade mulch (Smooth) in Georgia.

<b>Item</b>	<b>Unit</b>	<b>Quantity</b>	<b>Price</b>	<b>Amt/acre</b>	<b>Yours</b>
Plants	Thousand	7.50	\$29.50	\$221.25	
Lime, applied	Ton	1.00	\$28.50	\$28.50	
Base Fertilizer	lbs.	12.00	\$26.41	\$316.88	
Sidedress Fertilizer (soluble)	Gal.	60.00	\$2.82	\$169.37	
Insecticide	Acre	1.00	\$240.16	\$240.16	
Fungicide	Acre	1.00	\$349.02	\$349.02	
Nematicide	Acre	1.00	\$822.88	\$822.88	
Herbicide	Acre	1.00	\$111.68	\$111.68	
Plastic	Roll	2.80	\$68.50	\$191.80	
Plastic Removal	Acre	1.00	\$75.00	\$75.00	
Drip Tape	Ft	8700.00	\$0.02	\$174.00	
Fumigation and Mulching	Acre	1.00	\$1,219.00	\$1,219.00	
Machinery	Hr.	5.00	\$21.00	\$105.00	
Transplant Labor	Hr.	20.00	\$7.00	\$140.00	
Labor	Hr.	33.00	\$6.00	\$198.00	
Land rent	Acre	1.00	\$110.00	\$110.00	
Irrigation (Mach + Labor)	Acre	1.00	\$65.08	\$65.08	
Interest on Oper. Cap.	\$	4537.61	\$0.07	\$158.82	
<b>Pre-Harvest Variable Costs</b>				<b>\$4,696.43</b>	

**Table 3.** Harvesting and marketing costs of producing bell peppers with 1,3-dichloropropene plus chloropicrin on high barrier black on black blockade mulch (Smooth) in Georgia.

Item	Unit	Quantity	Price	Amt/acre	Yours
Picking and hauling	Ctn.	1428	\$0.85	\$1,213.93	
Grading and packing	Ctn.	1428	\$1.10	\$1,570.97	
Container	Ctn.	1428	\$0.75	\$1,071.12	
Marketing 8.50 % GROSS	Ctn.	1428	\$1.02	\$1,456.72	
<b>Total Harvest and Marketing</b>			<b>\$3.72</b>	<b>\$5,312.75</b>	
<b>Total Variable Costs</b>					
				<b>\$10,009.18</b>	

**Table 4.** Fixed costs of producing bell peppers with 1,3-dichloropropene plus chloropicrin on high barrier black on black blockade mulch (Smooth) in Georgia.

Item	Unit	Quantity	Price	Amt/acre	Yours
Machinery	Acre	1.00	\$53.59	\$53.59	
Irrigation	Acre	1.00	\$220.65	\$220.65	
Land	Acre	1.00	\$0.00	\$0.00	
Overhead and Management	\$	4696.43	\$0.15	\$704.46	
<b>Total Fixed Costs</b>				<b>\$978.71</b>	
<b>Total budgeted cost per acre</b>					
				<b>\$10,987.89</b>	

**Table 5.** Risk-rated returns over total costs of producing bell peppers with 1,3-dichloropropene plus chloropicrin on high barrier black on black blockade mulch (Smooth) in Georgia.

Description	Optimistic			Expected	Pessimistic		
Returns(\$)	11,000	9,383	7,767	6,150	4,533	2,917	1,300
Chances	7%	16%	31%	50%			
Chances				50%	31%	16%	7%
<b>CHANCES FOR PROFIT</b>							
	<b>97%</b>	<b>BASE BUDGETED NET REVENUE</b>				<b>6,150</b>	

#### Acknowledgment

This project was supported by CSREES Grant entitled "Assisting Vegetable Growers in the adoption of methyl bromide alternatives for weeds, diseases, and nematodes", 2006-2009.