

CLEMSON

EXTENSION

Department of Applied Economics and Statistics

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SNAP BEANS - FOR FRESH MARKET (MACHINE HARVEST) - IRRIGATED

ESTIMATED COSTS AND RETURNS PER ACRE, 2008/2009
200 BUSHELS - HARVEST IN AUGUST - VERY SHORT SEASON

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
1. GROSS RECEIPTS					
SNAP BEANS	BU.	200.00	\$12.00	\$2,400.00	_____
TOTAL RECEIPTS:				\$2,400.00	_____
2. VARIABLE COSTS					
SEED	LBS	60.00	\$1.10	\$66.00	_____
FERTILIZER					
3-9-24	CWT	4.00	\$13.50	\$54.00	_____
SIDE DRESSING 24.5% N	CWT	3.00	\$51.02	\$153.06	_____
LIME (PRORATED)	TON	0.33	\$52.50	\$17.33	_____
HERBICIDES	ACRE	1.00	\$3.94	\$3.94	_____
INSECTICIDES	ACRE	1.00	\$36.80	\$36.80	_____
FUNGICIDES	ACRE	1.00	\$43.88	\$43.88	_____
STICKER	PT	40.00	\$2.00	\$80.00	_____
IRRIGATION, MACHINERY & LABOR	ACRE	1.00	\$42.28	\$42.28	_____
HARVESTING & HAULING	BU.	200.00	\$2.50	\$500.00	_____
ONE BUSHEL HAMPER	EACH	200.00	\$1.75	\$350.00	_____
MARKETING	BU.	200.00	\$0.60	\$120.00	_____
GRADING, CLEANING & BOXING	BU.	200.00	\$2.00	\$400.00	_____
TRACTOR/MACHINERY	ACRE	1.00	\$40.22	\$40.22	_____
LABOR	HRS	11.30	\$6.50	\$73.45	_____
INTEREST ON OP. CAP.	DOL.	\$268.76	9.0%	\$24.19	_____
TOTAL VARIABLE COSTS:				\$2,005.15	_____
3. INCOME ABOVE VARIABLE COSTS:				\$394.85	_____
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$57.72	\$57.72	_____
IRRIGATION	ACRE	1.00	\$84.71	\$84.71	_____
TOTAL FIXED COSTS:				\$142.43	_____
5. OTHER COSTS					
LAND RENT	ACRE	1.00	\$25.00	\$25.00	_____
GENERAL OVERHEAD	DOL.	\$2,005.15	9.0%	\$180.46	_____
TOTAL OTHER COSTS:				\$205.46	_____
6. TOTAL COSTS:				\$2,353.04	_____
7. NET RETURNS TO RISK AND MANAGEMENT:				\$46.96	_____

BREAK-EVEN YIELD

VARIABLE COSTS
TOTAL COSTS

123 BU.
190 BU.

BREAK-EVEN PRICE PER BUSHEL

VARIABLE COSTS \$10.03
TOTAL COSTS \$11.77

* PLEASE NOTE: THIS BUDGET IS FOR PLANNING PURPOSES ONLY.

** BASED ON IMPROVED PRODUCTION PRACTICES FOR COMMERCIAL PRODUCERS.

*** HARVESTING COST ACCOUNTS FOR ADDITIONAL LABOR ON THE 1-ROW PICKER.

SNAP BEANS - FOR FRESH MARKET (MACHINE HARVEST) - IRRIGATED						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR SNAP BEANS						
MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
2	4-BOTTOM FLIP PLOW	1.00	0.28	0.25	\$2.91	\$2.41
3	HEAVY DISK 14'	1.00	0.17	0.15	\$2.67	\$3.92
3	DISK W/ SPRAYER 16'	1.00	0.17	0.15	\$2.00	\$3.42
3	SUBSOILER-BEDDER 4-ROW	1.00	0.21	0.19	\$3.05	\$2.87
3	PLANTER 4-ROW	1.00	0.22	0.20	\$2.82	\$4.34
3,5&6	NURSE TANK ON PICK-UP	2.00	0.37	0.34	\$2.10	\$3.20
4&5	CULTIVATOR 4-ROW	2.00	0.51	0.46	\$3.96	\$4.74
5&6	SIDEDRESSER 2-ROW	1.00	0.62	0.56	\$4.52	\$4.95
3&5	PULL TYPE SPRAYER	3.00	0.59	0.54	\$3.87	\$8.13
3,4,5&6	TRUCK 1.5 TON	4.00	1.01	0.92	\$5.76	\$8.88
8	VEGETABLE PICKER 1-ROW	1.00	0.87	0.79	\$6.56	\$10.86
PER ACRE TOTALS FOR SELECTED OPERATIONS			5.02	4.55	\$40.22	\$57.72
UNALLOCATED LABOR(HRS./AC.)			6.28			
<p>Note: Six inches of water is applied using a 30 acre real travel gun irrigation system. Two applications are put down in April, three in May, and one in June. It is assumed that the irrigation system is used on two crops each year. This results in reducing the fixed cost by 1/2.</p>						

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES						
YIELD	PRICE (\$/bu.)					
BU.	\$9.60	\$10.80	\$12.00	\$13.20	\$14.40	
160	-\$195.15	-\$3.15	\$188.85	\$380.85	\$572.85	
180	-\$140.15	\$75.85	\$291.85	\$507.85	\$723.85	
200	-\$85.15	\$154.85	\$394.85	\$634.85	\$874.85	
220	-\$30.15	\$233.85	\$497.85	\$761.85	\$1,025.85	
240	\$24.85	\$312.85	\$600.85	\$888.85	\$1,176.85	

CHEMICAL USE ASSUMPTIONS FOR SNAP BEANS					
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH
HERBICIDES					
trifluralin (Treflan EC)	PT	1.25	\$3.15	\$3.94	1X MAR
INSECTICIDES					
disulfoton (Disyston)	LB	10.00	\$2.48	\$24.80	1X MAR
esfenvalerate (Asana)	OZ	10.00	\$0.69	\$6.93	2X MAY
acephate (Orthene)	LB	0.50	\$10.13	\$5.07	1X MAY
FUNGICIDES					
mefenoxam-PCNB (Ridomil)	LB	10.00	\$2.25	\$22.50	1X MAR
chlorothalonil (Bravo)	PT	6.00	\$3.56	\$21.38	1X MAY
TOTAL:				\$84.62	
<p>The above listed chemicals are examples and do not imply exclusive recommendations by Clemson University. The "Vegetable Crop Guidelines for the Southeastern US" must be consulted. Production assumptions provided by Tony Melton, (843) 661-4800, amelton@clemson.edu.</p>					

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