

# CLEMSON

## EXTENSION

Department of Applied Economics and Statistics

Phone: 864-656-3475



### SWEET POTATOES - FOR FRESH MARKET - IRRIGATED

ESTIMATED COSTS AND RETURNS PER ACRE, 2008/2009  
 BASED ON 1.1 BUSHEL CONTAINER - HARVEST LATE OCTOBER OR EARLY NOVEMBER

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
<b>1. GROSS RECEIPTS</b>					
US #1	CONT	350.00	\$12.00	\$4,200.00	_____
US #1 JUMBO	CONT	90.00	\$10.00	\$900.00	_____
US #2	CONT	90.00	\$8.00	\$720.00	_____
TOTAL RECEIPTS AND AVERAGE PRICE:		530.00	\$10.98	<b>\$5,820.00</b>	_____
<b>2. VARIABLE COSTS</b>					
TRANSPLANTS	THOU.	17.00	\$30.00	\$510.00	_____
FERTILIZER					
6-6-18	LBS	1000.00	\$0.20	\$200.00	_____
LIME (PRORATED)	TON	0.33	\$52.50	\$17.33	_____
HERBICIDES	ACRE	1.00	\$29.67	\$29.67	_____
INSECTICIDES	ACRE	1.00	\$16.43	\$16.43	_____
NEMATICIDES	ACRE	1.00	\$52.20	\$52.20	_____
TRANSPLANT LABOR	HRS	10.00	\$6.50	\$65.00	_____
IRRIGATION, MACHINERY & LABOR	ACRE	1.00	\$42.28	\$42.28	_____
HARVEST LABOR	HRS	40.00	\$6.50	\$260.00	_____
CURING & STORAGE	CONT	530.00	\$1.00	\$530.00	_____
BOXING	CONT	530.00	\$1.25	\$662.50	_____
MARKETING	CONT	530.00	\$0.50	\$265.00	_____
1.1 BUSHEL CONTAINER	EACH	530.00	\$1.00	\$530.00	_____
BULK BINS (3 YR. PRORATED)	EACH	3.00	\$4.00	\$12.00	_____
TRACTOR/MACHINERY	ACRE	1.00	\$134.96	\$134.96	_____
LABOR	HRS	24.59	\$6.50	\$159.84	_____
INTEREST ON OP. CAP.	DOL.	\$533.94	9.0%	\$48.05	_____
TOTAL VARIABLE COSTS:				<b>\$3,535.26</b>	_____
<b>3. INCOME ABOVE VARIABLE COSTS:</b>				<b>\$2,284.74</b>	_____
<b>4. FIXED COSTS</b>					
TRACTOR/MACHINERY	ACRE	1.00	\$200.38	\$200.38	_____
IRRIGATION	ACRE	1.00	\$84.71	\$84.71	_____
TOTAL FIXED COSTS:				<b>\$285.09</b>	_____
<b>5. OTHER COSTS</b>					
LAND RENT	ACRE	1.00	\$25.00	\$25.00	_____
GENERAL OVERHEAD	DOL.	\$3,535.26	9.0%	\$318.17	_____
TOTAL OTHER COSTS:				<b>\$343.17</b>	_____
<b>6. TOTAL COSTS:</b>				<b>\$4,163.52</b>	_____
<b>7. NET RETURNS TO RISK AND MANAGEMENT:</b>				<b>\$1,656.48</b>	_____

<u>BREAK-EVEN AVERAGE YIELD</u>		<u>BREAK-EVEN AVG PRICE PER 1.1 BUSHEL</u>	
VARIABLE COSTS	214 1.1 BU.	VARIABLE COSTS	\$6.67
TOTAL COSTS	290 1.1 BU.	TOTAL COSTS	\$7.86

\* PLEASE NOTE: THIS BUDGET IS FOR PLANNING PURPOSES ONLY.  
 \*\* BASED ON IMPROVED PRODUCTION PRACTICES FOR COMMERCIAL PRODUCERS.

SWEET POTATOES - FOR FRESH MARKET - IRRIGATED						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR SWEET POTATOES						
MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
4	DISK W/ SPRAYER 16'	1.00	0.17	0.15	\$2.00	\$3.42
4	SUBSOILER-BEDDER 4-ROW	1.00	0.21	0.19	\$3.05	\$2.87
5	TRANSPLANTER 2-ROW	1.00	2.52	2.29	\$13.74	\$24.23
6&7	CULTIVATOR 4-ROW	3.00	0.76	0.69	\$5.94	\$7.11
6	TRACTOR MTD SPRAYER	2.00	0.35	0.32	\$2.28	\$3.28
6	HERBICIDE APPLICATOR 12'	1.00	0.17	0.15	\$1.33	\$1.49
4&6	SIDEDRESSER 2-ROW	2.00	1.23	1.12	\$9.04	\$9.90
4&6	NURSE TANK ON PICK-UP	2.00	0.37	0.34	\$2.10	\$3.20
5&6	POTATO HARVESTER	4.00	3.48	3.16	\$83.60	\$127.16
5&6	FARM WAGON	4.00	0.66	0.60	\$6.12	\$8.84
5&6	TRUCK 1.5 TON	4.00	1.01	0.92	\$5.76	\$8.88
PER ACRE TOTALS FOR SELECTED OPERATIONS			10.93	9.93	\$134.96	\$200.38
UNALLOCATED LABOR(HRS./AC.)			13.66			
Note: Six inches of water is applied using a 30 acre real travel gun irrigation system. One application per month is put down in each month April through September. It is assumed that the irrigation system is used on two crops each year. This results in reducing the fixed cost by 1/2.						

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES						
YIELD	PRICE (\$/1.1 bu.)					
1.1 BU.	\$8.78	\$9.88	\$10.98	\$12.08	\$13.18	
424	\$584.96	\$1,051.36	\$1,518.24	\$1,984.16	\$2,450.56	
477	\$851.55	\$1,376.25	\$1,901.49	\$2,425.65	\$2,950.35	
530	\$1,118.14	\$1,701.14	\$2,284.74	\$2,867.14	\$3,450.14	
583	\$1,384.73	\$2,026.03	\$2,667.99	\$3,308.63	\$3,949.93	
636	\$1,651.32	\$2,350.92	\$3,051.24	\$3,750.12	\$4,449.72	

CHEMICAL USE ASSUMPTIONS FOR SWEET POTATOES					
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH
HERBICIDES					
clomazone (Command)	PT	2.50	\$11.87	\$29.67	1X JUN
INSECTICIDES					
phosmet (Imidam)	LB	2.00	\$6.53	\$13.06	2X APR
chlorpyrifos (Lorsban)	QT	2.00	\$8.21	\$16.43	1X APR
NEMATICIDES					
dichloropropene+chloropicrin (Telone C17)	GAL	4.00	\$13.05	\$52.20	1X APR
TOTAL:				\$111.36	
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.					

THE CLEMSON UNIVERSITY COOPERATIVE EXTENSION SERVICE OFFERS ITS PROGRAMS TO PEOPLE OF ALL AGES, REGARDLESS OF RACE, COLOR, SEX, RELIGION, NATIONAL ORIGIN, OR HANDICAP AND IS AN EQUAL OPPORTUNITY EMPLOYER. COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS--STATE OF SOUTH CAROLINA, CLEMSON UNIVERSITY, U.S. DEPARTMENT OF AGRICULTURE, AND SOUTH CAROLINA COUNTIES COOPERATING.