

# Sweetpotato - 2024

ESTIMATED COSTS PER ACRE, 2024  
 Variety: Covington  
 Harvested Yield (BU/Ac.): 410.00

Bin = 40 BU  
 BU = 50 lbs  
 Carton = 40 lbs

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
<b>1. GROSS RECEIPTS</b>					
		Yield	Price/BU		
Sweetpotato GRADE # 1's	BU. 50lbs	300.00	\$11.00	\$3,300.00	
Lower Grade	BU.	110.00	\$5.50	\$605.00	
Average Price per Bushel	BU		\$9.52		
<b>TOTAL RECEIPTS:</b>				<b>\$3,905.00</b>	
<b>2. VARIABLE COSTS</b>					
SWEETPOTATO SLIPS	THOU.	13.50	\$40.00	\$540.00	
FERTILIZER					
AMMONIUM SULFATE	LBS	380.95	\$0.74	\$281.90	
46% SUPERPHOSPHATE	LBS	125.00	\$0.30	\$37.50	
0-0-60 MURATE OF POTASH	LBS	266.67	\$0.46	\$122.67	
LIME SPREAD	TON	0.33	\$85.00	\$28.05	
PESTICIDE					
MULTIPURPOSE FUMIGATION	PER ACRE	1.00	\$210.00	\$210.00	
HERBICIDES	PER ACRE	1.00	\$29.06	\$29.06	
INSECTICIDES	PER ACRE	1.00	\$29.99	\$29.99	
TRACTOR/MACHINERY	PER ACRE	1.00	\$212.90	\$212.90	
CONSULTING SERVICES	PER ACRE	1.00	\$15.00	\$15.00	
LABOR					
TRANSPLANT	HRS	10.00	\$14.91	\$149.10	
HAND WEEDING	HRS	2.00	\$14.91	\$29.82	
TRACTOR/MACHINERY	HRS	6.10	\$14.91	\$90.95	
HARVEST COST	BUSHEL	410.00	\$1.50	\$615.00	
STORAGE	BUSHEL	410.00	\$1.00	\$410.00	
TRANSPORTATION	BUSHEL	410.00	\$0.10	\$41.00	
COVER CROP	PER ACRE	1.00	\$50.00	\$50.00	
INTEREST ON OP. CAP.	DOL.	\$1,446.47	8.5%	\$122.95	
<b>TOTAL VARIABLE COSTS:</b>				<b>\$3,015.89</b>	
<b>3. INCOME ABOVE VARIABLE COSTS:</b>				<b>\$889.11</b>	
<b>4. FIXED COSTS</b>					
TRACTOR/MACHINERY	PER ACRE	1.00	\$212.90	\$212.90	
H2A OVERHEAD	PER ACRE	1.00	\$206.00	\$206.00	
<b>TOTAL FIXED COSTS:</b>				<b>\$418.90</b>	
<b>5. OTHER COSTS</b>					
GENERAL OVERHEAD***	DOL.	\$3,015.89	7.0%	\$211.11	
<b>TOTAL OTHER COSTS:</b>				<b>\$211.11</b>	
<b>6. TOTAL COSTS:</b>				<b>\$3,645.90</b>	
<b>7. NET RETURNS TO LAND, RISK, AND MANAGEMENT:</b>				<b>\$259.10</b>	

<b>BREAK-EVEN YIELD</b>			<b>BREAK-EVEN PRICE</b>		
VARIABLE COSTS	317 BU.	15.8 Bins	VARIABLE COSTS	\$7.36 per BU.	\$147.12 / Bin
TOTAL COSTS	383 BU.	19.1 Bins	TOTAL COSTS	\$8.89 per BU.	\$177.85 / Bin

\* PLEASE NOTE: THIS BUDGET IS FOR PLANNING PURPOSES ONLY.  
 \*\* GLOBAL GAP CERTIFICATION, CROP INSURANCE AND LAND RENT ARE NOT INCLUDED IN THIS BUDGET  
 \*\*\* GENERAL OVERHEAD IS TO CAPURE GENERAL FACILITY COSTS AND MAINTENANCE

Notes: N based on 2019 SE Vegetable Handbook. P & K based on Eastern NC removal rates.  
 Assuming 500/BU acre yield with pack out of 67% #1 Grade, 30% Lower Grade, and 3% Culls.  
 Interest on operating capital assumes an average loan length of 6 months.

**PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR SWEETPOTATOES**

MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
4,9,11	HEAVY DISK 16'	3.00	0.43	0.36	\$16.17	\$46.77
5	DISK W/ SPRAYER 21'	1.00	0.14	0.12	\$4.02	\$11.67
5	SUBSOILER-BEDDER 8-ROW	2.00	0.29	0.24	\$15.72	\$53.96
5	TOBACCO BED SHAPER 4-ROW	1.00	0.19	0.16	\$2.22	\$3.91
5	POTATO PLANTER (SWEET)	1.00	0.47	0.39	\$7.58	\$22.92
5,5,6	CULTIVATOR W/ HERBICIDE 4-ROW	3.00	0.68	0.57	\$11.01	\$25.35
6	TRACTOR MTD SPRAYER 90FT	4.00	0.14	0.12	\$6.16	\$30.28
8	ROTARY MOWER 14'	1.00	0.18	0.15	\$2.05	\$4.54
8	4-ROW DISC PLOW	1.00	0.19	0.16	\$6.70	\$13.50
11	BROADCAST SEEDER	1.00	0.12	0.10	\$1.84	\$3.78
11	TANDOM LIGHT DISK 20'	1.00	0.14	0.12	\$4.42	\$10.98
PER ACRE TOTALS FOR SELECTED OPERATIONS			2.71	2.27	\$71.63	\$212.90
UNALLOCATED LABOR(HRS./AC.)			3.39			

**INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES**

YIELD BU. / Ac.	PRICE (\$/BU.)			YIELD Bins / Ac.	PRICE (\$/Bin)		
	\$4.00	\$8.00	\$12.00		\$80.00	\$160.00	\$240.00
300	-\$1,815.89	-\$615.89	\$584.11	15	-\$1,815.89	-\$615.89	\$584.11
400	-\$1,415.89	\$184.11	\$1,784.11	20	-\$1,415.89	\$184.11	\$1,784.11
500	-\$1,015.89	\$984.11	\$2,984.11	25	-\$1,015.89	\$984.11	\$2,984.11
600	-\$615.89	\$1,784.11	\$4,184.11	30	-\$615.89	\$1,784.11	\$4,184.11
700	-\$215.89	\$2,584.11	\$5,384.11	35	-\$215.89	\$2,584.11	\$5,384.11

**CHEMICAL USE ASSUMPTIONS FOR SWEETPOTATOES**

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH
MULTIPURPOSE FUMIGATION:					
dichloropropene (Telone II)	GAL	7.00	\$30.00	\$210.00	MAY
HERBICIDES:					
flumioxazin (Valor)	OZ	3.00	\$3.85	\$11.56	MAY
clomazone (Command)	PT	1.00	\$17.50	\$17.50	MAY
metolachlor (Dual Magnum)	PT	0.75	\$11.19	\$8.39	MAY
INSECTICIDES					
bifenthrin	OZ	32.00	\$0.94	\$29.99	MAY, JUNE
TOTAL:				\$67.44	

Notes: Use of Telone II and Velum Prime assumes that the field has a high level of nematodes and/or *M. enterlobii* has been detected.  
 Velum Prime used at the rate of 6 oz per acre with chemical cost of \$2.97 per acre. Quantity of Telone II is for row application

Prepared by: Daniel Tregeagle, Derek Washburn, and Cassie Scanlan  
 North Carolina State University, Dept. Agricultural and Resource Economics