



Sweet Potato, Organic - 2018

NC STATE UNIVERSITY

ESTIMATED COSTS PER ACRE, 2018

	BU. 50lb 1's BU. bos BU. LBS TON TON ACRE BUSHE BUSHE ACRE ACRE ACRE ACRE	250.00 100.00 13.50 3.00 0.33 1.00 4.350.00 350.00	\$25.00 \$35.00 \$45.00 \$69.00 \$97.50 \$0.26 \$1.00	\$97.50 _	
Sweet Potato GRADE # Jum TOTAL RECEIPTS: PLANTS (GREENHOUSE) FERTILIZER POULTRY LITTER LIME (PRORATED) INSECTICIDES HAULING CURING/STORAGE PACKING TRACTOR/MACHINERY SCOUTING COVER CROP LABOR TRANSPLANT LABOR HAND WEEDING LABOR HARVEST COST INTEREST ON OP. CAP. CERTIFICATION ASSESSMENT TOTAL VARIABLE COSTS:	T'S BU. bos BU. LBS TON TON ACRE BUSHE BUSHE BUSHE ACRE ACRE	250.00 100.00 13.50 3.00 0.33 1.00 350.00 350.00 350.00	\$25.00 \$35.00 \$45.00 \$69.00 \$97.50 \$0.26	\$0.00 \$6,250.00 _ \$472.50 _ \$135.00 \$22.77 _ \$97.50 _	
Sweet Potato GRADE # Jum TOTAL RECEIPTS: PLANTS (GREENHOUSE) FERTILIZER POULTRY LITTER LIME (PRORATED) INSECTICIDES HAULING CURING/STORAGE PACKING TRACTOR/MACHINERY SCOUTING COVER CROP LABOR TRANSPLANT LABOR HAND WEEDING LABOR HARVEST COST INTEREST ON OP. CAP. CERTIFICATION ASSESSMENT TOTAL VARIABLE COSTS:	T'S BU. bos BU. LBS TON TON ACRE BUSHE BUSHE BUSHE ACRE ACRE	250.00 100.00 13.50 3.00 0.33 1.00 350.00 350.00 350.00	\$25.00 \$35.00 \$45.00 \$69.00 \$97.50 \$0.26	\$0.00 \$6,250.00 _ \$472.50 _ \$135.00 \$22.77 _ \$97.50 _	
Jum TOTAL RECEIPTS: 2. VARIABLE COSTS PLANTS (GREENHOUSE) FERTILIZER POULTRY LITTER LIME (PRORATED) INSECTICIDES HAULING CURING/STORAGE PACKING TRACTOR/MACHINERY SCOUTING COVER CROP LABOR TRANSPLANT LABOR HAND WEEDING LABOR HARVEST COST INTEREST ON OP. CAP. CERTIFICATION ASSESSMENT TOTAL VARIABLE COSTS:	T'S BU. bos BU. LBS TON TON ACRE BUSHE BUSHE BUSHE ACRE ACRE	250.00 100.00 13.50 3.00 0.33 1.00 4. 350.00 350.00 350.00	\$35.00 \$45.00 \$69.00 \$97.50 \$0.26	\$0.00 \$6,250.00 _ \$472.50 _ \$135.00 \$22.77 _ \$97.50 _	
TOTAL RECEIPTS: 2. VARIABLE COSTS PLANTS (GREENHOUSE) FERTILIZER POULTRY LITTER LIME (PRORATED) INSECTICIDES HAULING CURING/STORAGE PACKING TRACTOR/MACHINERY SCOUTING COVER CROP LABOR TRANSPLANT LABOR HAND WEEDING LABOR HARVEST COST INTEREST ON OP. CAP. CERTIFICATION ASSESSMENT	LBS TON TON ACRE BUSHE BUSHE BUSHE ACRE ACRE	13.50 3.00 0.33 1.00 4. 350.00 350.00 350.00 350.00	\$35.00 \$45.00 \$69.00 \$97.50 \$0.26	\$0.00 \$6,250.00 _ \$472.50 _ \$135.00 \$22.77 _ \$97.50 _	
TOTAL RECEIPTS: 2. VARIABLE COSTS PLANTS (GREENHOUSE) FERTILIZER POULTRY LITTER LIME (PRORATED) INSECTICIDES HAULING CURING/STORAGE PACKING TRACTOR/MACHINERY SCOUTING COVER CROP LABOR TRANSPLANT LABOR HAND WEEDING LABOR HARVEST COST INTEREST ON OP. CAP. CERTIFICATION ASSESSMENT	LBS TON TON ACRE BUSHE BUSHE BUSHE ACRE ACRE	3.00 0.33 1.00 4. 350.00 5. 350.00 350.00 350.00	\$45.00 \$69.00 \$97.50 \$0.26	\$6,250.00 _ \$472.50 _ \$135.00 \$22.77 _ \$97.50 _	
PLANTS (GREENHOUSE) FERTILIZER POULTRY LITTER LIME (PRORATED) INSECTICIDES HAULING CURING/STORAGE PACKING TRACTOR/MACHINERY SCOUTING COVER CROP LABOR TRANSPLANT LABOR HAND WEEDING LABOR HARVEST COST INTEREST ON OP. CAP. CERTIFICATION ASSESSMENT	TON TON ACRE BUSHE BUSHE BUSHE ACRE ACRE	3.00 0.33 1.00 350.00 350.00 350.00	\$45.00 \$69.00 \$97.50 \$0.26	\$135.00 \$22.77 _ \$97.50 _	
FERTILIZER POULTRY LITTER LIME (PRORATED) INSECTICIDES HAULING CURING/STORAGE PACKING TRACTOR/MACHINERY SCOUTING COVER CROP LABOR TRANSPLANT LABOR HAND WEEDING LABOR HARVEST COST INTEREST ON OP. CAP. CERTIFICATION ASSESSMENT	TON TON ACRE BUSHE BUSHE BUSHE ACRE ACRE	3.00 0.33 1.00 350.00 350.00 350.00	\$45.00 \$69.00 \$97.50 \$0.26	\$135.00 \$22.77 _ \$97.50 _	
POULTRY LITTER LIME (PRORATED) INSECTICIDES HAULING CURING/STORAGE PACKING TRACTOR/MACHINERY SCOUTING COVER CROP LABOR TRANSPLANT LABOR HAND WEEDING LABOR HARVEST COST INTEREST ON OP. CAP. CERTIFICATION ASSESSMENT	TON ACRE BUSHE BUSHE BUSHE ACRE ACRE	0.33 1.00 350.00 350.00 350.00	\$69.00 \$97.50 \$0.26	\$22.77 _ \$97.50 _	
LIME (PRORATED) INSECTICIDES HAULING CURING/STORAGE PACKING TRACTOR/MACHINERY SCOUTING COVER CROP LABOR TRANSPLANT LABOR HAND WEEDING LABOR HARVEST COST INTEREST ON OP. CAP. CERTIFICATION ASSESSMENT	TON ACRE BUSHE BUSHE BUSHE ACRE ACRE	0.33 1.00 350.00 350.00 350.00	\$69.00 \$97.50 \$0.26	\$22.77 _ \$97.50 _	
INSECTICIDES HAULING CURING/STORAGE PACKING TRACTOR/MACHINERY SCOUTING COVER CROP LABOR TRANSPLANT LABOR HAND WEEDING LABOR HARVEST COST INTEREST ON OP. CAP. CERTIFICATION ASSESSMENT	ACRE BUSHE BUSHE BUSHE ACRE ACRE	1.00 350.00 350.00 350.00	\$97.50 \$0.26	\$97.50 _	
INSECTICIDES HAULING CURING/STORAGE PACKING TRACTOR/MACHINERY SCOUTING COVER CROP LABOR TRANSPLANT LABOR HAND WEEDING LABOR HARVEST COST INTEREST ON OP. CAP. CERTIFICATION ASSESSMENT	ACRE BUSHE BUSHE BUSHE ACRE ACRE	1.00 350.00 350.00 350.00	\$97.50 \$0.26	\$97.50 _	
CURING/STORAGE PACKING TRACTOR/MACHINERY SCOUTING COVER CROP LABOR TRANSPLANT LABOR HAND WEEDING LABOR HARVEST COST INTEREST ON OP. CAP. CERTIFICATION ASSESSMENT	BUSHE BUSHE ACRE ACRE	350.00 350.00	*		
CURING/STORAGE PACKING TRACTOR/MACHINERY SCOUTING COVER CROP LABOR TRANSPLANT LABOR HAND WEEDING LABOR HARVEST COST INTEREST ON OP. CAP. CERTIFICATION ASSESSMENT	BUSHE BUSHE ACRE ACRE	350.00 350.00	*	\$91.00	
PACKING TRACTOR/MACHINERY SCOUTING COVER CROP LABOR TRANSPLANT LABOR HAND WEEDING LABOR HARVEST COST INTEREST ON OP. CAP. CERTIFICATION ASSESSMENT	BUSHE ACRE ACRE	350.00		\$350.00	
TRACTOR/MACHINERY SCOUTING COVER CROP LABOR TRANSPLANT LABOR HAND WEEDING LABOR HARVEST COST INTEREST ON OP. CAP. CERTIFICATION ASSESSMENT	ACRE ACRE		\$4.00	\$1,400.00	
SCOUTING COVER CROP LABOR TRANSPLANT LABOR HAND WEEDING LABOR HARVEST COST INTEREST ON OP. CAP. CERTIFICATION ASSESSMENT TOTAL VARIABLE COSTS:	ACRE		\$57.62	\$57.62	
COVER CROP LABOR TRANSPLANT LABOR HAND WEEDING LABOR HARVEST COST INTEREST ON OP. CAP. CERTIFICATION ASSESSMENT TOTAL VARIABLE COSTS:		1.00	\$45.00	\$45.00	
LABOR TRANSPLANT LABOR HAND WEEDING LABOR HARVEST COST INTEREST ON OP. CAP. CERTIFICATION ASSESSMENT TOTAL VARIABLE COSTS:		1.00	\$50.00		
TRANSPLANT LABOR HAND WEEDING LABOR HARVEST COST INTEREST ON OP. CAP. CERTIFICATION ASSESSMENT TOTAL VARIABLE COSTS:	AOIL	1.00	Ψ30.00	Ψ30.00 _	
HAND WEEDING LABOR HARVEST COST INTEREST ON OP. CAP. CERTIFICATION ASSESSMENT TOTAL VARIABLE COSTS:	HRS	12.00	\$11.46	\$137.52	
LABOR HARVEST COST INTEREST ON OP. CAP. CERTIFICATION ASSESSMENT TOTAL VARIABLE COSTS:	HRS		•		
HARVEST COST INTEREST ON OP. CAP. CERTIFICATION ASSESSMENT TOTAL VARIABLE COSTS:	_	5.00	\$11.46		
INTEREST ON OP. CAP. CERTIFICATION ASSESSMENT TOTAL VARIABLE COSTS:	HRS	10.62	\$11.46	\$121.71 _	
CERTIFICATION ASSESSMENT TOTAL VARIABLE COSTS:	BUSHE		\$1.25	\$437.50 _	
TOTAL VARIABLE COSTS:	DOL.	\$1,185.30	5.0%		
	DOL.	\$6,250.00	\$ 0.05	\$312.50	
B. INCOME ABOVE VARIABLE COSTS:			=	\$3,534.69	
				\$2,715.31 _	
I. FIXED COSTS TRACTOR/MACHINERY	ACRE	1.00	\$83.66	\$83.66	
ORGANIC CERTIFICATION	ACRE	1.00	\$35.00	\$35.00 <u></u>	
H2A OVERHEAD	ACRE	1.00	\$289.00	\$289.00	
HZA OVERHEAD	ACRE	1.00	\$209.00	φ209.00	
TOTAL FIXED COSTS:			=	\$407.66	
5. OTHER COSTS					
GENERAL OVERHEAD	DOL.	\$3,534.69	7.0%	\$247.43 _	
TOTAL OTHER COSTS:			_	\$247.43 _	
S. TOTAL COSTS:				\$4,189.78 _	
. NET RETURNS TO LAND, RISK, AND MAN				\$2,060.22	





PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR ORGANIC SWEET POTATO							
OPERATION	TIMES	LABOR	MACHINE	VARIABLE	FIXED		
	OVER	HOURS	HOURS	COSTS	COSTS		
LIE N N/ BIOL/ 40/	4.00	0.50	0.40	* 40.04	010.11		
HEAVY DISK 16"	4.00	0.53	0.48	*	\$16.44		
DISK W/ SPRAYER 21'	1.00	0.13	0.12	\$2.37	\$3.25		
HIBOY	3.00	0.10	0.09	\$6.21	\$10.77		
SUBSOILER-BEDDER 8-ROW	1.00	0.13	0.12	\$4.50	\$4.80		
POTATO PLANTER (SWEET)	1.00	0.43	0.39	\$4.33	\$7.80		
CULTIVATOR 4-ROW	2.00	0.51	0.46	\$4.88	\$4.54		
POTATO DIGGER (SWEET)	1.00	0.87	0.79	\$8.37	\$18.30		
TRUCK 1.5 TON	8.00	2.02	1.84	\$13.12	\$17.76		
RE TOTALS FOR							
SELECTED OPERATIONS		4.72	4.29	\$57.62	\$83.66		
OCATED LABOR(HRS./AC.)		5.90					
	OPERATION HEAVY DISK 16' DISK W/ SPRAYER 21' HIBOY SUBSOILER-BEDDER 8-ROW POTATO PLANTER (SWEET) CULTIVATOR 4-ROW POTATO DIGGER (SWEET) TRUCK 1.5 TON RE TOTALS FOR	OPERATION TIMES OVER HEAVY DISK 16' 4.00 DISK W/ SPRAYER 21' 1.00 HIBOY 3.00 SUBSOILER-BEDDER 8-ROW 1.00 POTATO PLANTER (SWEET) 1.00 CULTIVATOR 4-ROW 2.00 POTATO DIGGER (SWEET) 1.00 TRUCK 1.5 TON 8.00 RE TOTALS FOR	OPERATION TIMES OVER LABOR HOURS HEAVY DISK 16' 4.00 0.53 DISK W/ SPRAYER 21' 1.00 0.13 HIBOY 3.00 0.10 SUBSOILER-BEDDER 8-ROW 1.00 0.13 POTATO PLANTER (SWEET) 1.00 0.43 CULTIVATOR 4-ROW 2.00 0.51 POTATO DIGGER (SWEET) 1.00 0.87 TRUCK 1.5 TON 8.00 2.02 RE TOTALS FOR ED OPERATIONS 4.72	OPERATION TIMES OVER LABOR HOURS MACHINE HOURS HEAVY DISK 16' 4.00 0.53 0.48 DISK W/SPRAYER 21' 1.00 0.13 0.12 HIBOY 3.00 0.10 0.09 SUBSOILER-BEDDER 8-ROW 1.00 0.13 0.12 POTATO PLANTER (SWEET) 1.00 0.43 0.39 CULTIVATOR 4-ROW 2.00 0.51 0.46 POTATO DIGGER (SWEET) 1.00 0.87 0.79 TRUCK 1.5 TON 8.00 2.02 1.84 RE TOTALS FOR TED OPERATIONS 4.72 4.29	OPERATION TIMES OVER LABOR HOURS MACHINE HOURS VARIABLE COSTS HEAVY DISK 16' 4.00 0.53 0.48 \$13.84 DISK W/ SPRAYER 21' 1.00 0.13 0.12 \$2.37 HIBOY 3.00 0.10 0.09 \$6.21 SUBSOILER-BEDDER 8-ROW 1.00 0.13 0.12 \$4.50 POTATO PLANTER (SWEET) 1.00 0.43 0.39 \$4.33 CULTIVATOR 4-ROW 2.00 0.51 0.46 \$4.88 POTATO DIGGER (SWEET) 1.00 0.87 0.79 \$8.37 TRUCK 1.5 TON 8.00 2.02 1.84 \$13.12 RE TOTALS FOR TED OPERATIONS 4.72 4.29 \$57.62		

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			PRICE OR	TOTAL	
	UNIT	QUANTITY	COST/UNIT	PER ACRE	MONTH
HERBICIDES:					
INSECTICIDES					
Dipel	LBS	5.00	\$13.00	\$65.00	APRIL, JUNE
Grandevo	LBS	1.00	\$32.50	\$32.50	MAR
TOTAL:				\$97.50	

Prepared by: Gary Bullen, Derek Washburn, Jack Wixson North Carolina State University, Dept. Agricultural and Resource Economics