

Peanuts, Runner Type-Strip Till-2023

**NC STATE
UNIVERSITY**

ESTIMATED COSTS AND RETURNS PER ACRE, 2023
4000 POUND YIELD STATE AVERAGE

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
1. GROSS RECEIPTS					
PEANUTS (QUOTA)	LBS	4000.00	\$0.24	\$960.00	_____
TOTAL RECEIPTS:				\$960.00	_____
2. VARIABLE COSTS					
SEED	LBS	110.00	\$0.93	\$102.30	_____
INOCULANT FERTILIZER	ACRE	1.00	\$6.00	\$6.00	_____
NITROGEN	LBS	0.00	\$0.36	\$0.00	_____
PHOSPHATE	LBS	30.00	\$0.32	\$9.60	_____
POTASH	LBS	90.00	\$0.51	\$45.90	_____
MANGANESE	LBS	3.00	\$0.35	\$1.05	_____
BORON	LBS	2.50	\$1.50	\$3.75	_____
LIME (PRORATED)	TON	0.50	\$57.00	\$28.50	_____
GYPHOSUM (spread)	TON	0.30	\$55.00	\$16.50	_____
HERBICIDES	ACRE	1.00	\$80.86	\$80.86	_____
INSECTICIDES	ACRE	1.00	\$16.39	\$16.39	_____
FUNGICIDES	ACRE	1.00	\$77.21	\$77.21	_____
SCOUTING	ACRE	1.00	\$20.00	\$20.00	_____
HAULING	TON	2.00	\$12.00	\$23.95	_____
DRYING & CLEANING	TON	2.00	\$45.00	\$89.82	_____
STATE CHECK-OFF FEE	TON	2.00	\$3.00	\$5.99	_____
NATIONAL ASSESSMENT	DOL.	\$ 960.00	0.95%	\$9.12	_____
CROP INSURANCE	ACRE	1.00	\$30.00	\$30.00	_____
TRACTOR/MACHINERY	ACRE	1.00	\$129.96	\$129.96	_____
LABOR	HRS	4.21	\$14.16	\$59.61	_____
INTEREST ON OP. CAP.	DOL.	\$288.82	8.0%	\$23.11	_____
TOTAL VARIABLE COSTS:				\$779.62	_____
3. INCOME ABOVE VARIABLE COSTS:				\$180.38	_____
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$174.77	\$174.77	_____
TOTAL FIXED COSTS:				\$174.77	_____
5. OTHER COSTS					
GENERAL OVERHEAD	DOL.	\$779.62	7.0%	\$54.57	_____
TOTAL OTHER COSTS:				\$54.57	_____
6. TOTAL COSTS:				\$1,008.96	_____
7. NET RETURNS TO LAND, RISK, AND MANAGEMENT:				-\$48.96	_____

<u>BREAK-EVEN YIELD</u>		<u>BREAK-EVEN PRICE</u>	
VARIABLE COSTS	3157 LBS	VARIABLE COSTS	\$0.20
TOTAL COSTS	4276 LBS	TOTAL COSTS	\$0.25

* THIS BUDGET WAS DEVELOPED FOR PLANNING PURPOSES ONLY AND DOES NOT INCLUDE LAND RENT

** NATIONAL ASSESSMENT IS 1% OF GROSS RECEIPT AND IS ALSO NAMED NATIONAL LOSS,PROMOTION,RESEARCH ASSESSMENT.

*FERTILIZER COST IS PRICE PER LB OF FERTILZER LISTED. FARMERS SHOULD USE SOIL TEST TO DETERMINE NUTRIENT RATES

*FERTILIZER AMOUNTS ARE BASED ON REMOVAL RATES , NUTRIENT REMOVAL RATES CAN BE FOUND HERE

PEANUTS - STRIP TILL-RUNNER						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR 3800 YIELD PEANUTS						
MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
4	STRIP TILL RIG	1.00	0.26	0.22	\$18.56	\$27.14
4	PEANUT PLANTER	1.00	0.25	0.21	\$6.83	\$8.24
5,6,7,8,9	HIBOY 90'	8.00	0.29	0.24	\$56.72	\$59.52
6	DIGGER INVERTER 6-ROW	1.00	0.41	0.34	\$18.01	\$19.01
10	PEANUT COMBINE 4-ROW	1.00	0.66	0.55	\$29.84	\$60.86
PER ACRE TOTALS FOR SELECTED OPERATIONS			1.87	1.56	\$129.96	\$174.77
UNALLOCATED LABOR(HRS./AC.)			2.34			

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES					
YIELD	PRICE (\$/lbs)				
LBS.	\$0.20	\$0.23	\$0.24	\$0.26	\$0.28
3400	-\$83.76	\$16.56	\$50.00	\$116.88	\$183.76
3700	-\$33.73	\$75.44	\$111.83	\$184.61	\$257.39
4000	\$16.30	\$134.32	\$173.66	\$252.34	\$331.02
4300	\$66.33	\$193.20	\$235.49	\$320.07	\$404.65
4600	\$116.36	\$252.08	\$297.32	\$387.80	\$478.28

*NC STATE DOES NOT ENDORSE ANY COMPANY OR CHEMICAL NAMES ASSOCIATED TO ACTIVE INGREDIENTS

**CHEMICALS LISTED ARE NOT A RECOMMENDATION FOR CHEMICAL USE BUT A REPRESENTATION OF COST ASSUMPTIONS ONLY

*PEST CONTROL ASSUMPTIONS FOR 3800 YIELD PEANUTS					
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH
**HERBICIDES:					
glyphosate (Roundup ultra)	QT	1.00	\$4.19	\$4.19	APR
2,4-D	PT	1.00	\$1.82	\$1.82	APR
paraquat (Gramoxone Extra)	PT	3.00	\$2.97	\$8.91	MAY
s-metolachlor (Dual Magnum EC)	PT	1.33	\$7.75	\$10.31	MAY
flumioxazin (Valor)	OZ	2.00	\$4.50	\$9.00	MAY
paraquat (Gramoxone Extra)	PT	0.68	\$2.97	\$2.02	JUN
bentazon (Basagran)	PT	1.60	\$9.64	\$15.42	JUN
bentazon + acifluorfen	PT	1.50	\$10.13	\$15.19	JUN
2, 4-DB	PT	4.00	\$3.50	\$14.00	JUN
**INSECTICIDES:					
imidacloprid (Admire Pro)	OZ	9.00	\$1.00	\$9.00	MAY
lambda-cyhalothrin (Karate-Z)	OZ	2.00	\$1.49	\$2.99	JUL
acephate (Orthene)	OZ	12.00	\$0.37	\$4.40	AUG
**FUNGICIDES:					
chlorothalonil (Bravo)	PT	2.72	\$5.13	\$13.94	JUL
fluxapyroxad + pyraclostrobin (Priaxor)	OZ	8.00	\$2.85	\$22.81	JUL
prothioconazole+tebuconazole (Provost)	OZ	10.00	\$1.58	\$15.82	AUG
Azoxystrobin + benzovinfupyr (Elatius)	OZ	9.50	\$2.59	\$24.64	SEP
TOTAL:				\$174.46	

Prepared by: David Jordan, Derek Washburn
North Carolina State University, Dept. Agricultural and Resource Economics