Soybean, High Yield History*-2024

NC STATE UNIVERSITY

ESTIMATED COSTS AND RETURNS PER ACRE, 2024 70 BUSHEL AVERAGE YIELD HISTORY*

			PRICE OR	TOTAL PER ACRE	YOUR FARM
	UNIT	QUANTITY	COST/UNIT	PER AURE	FARIN
1. GROSS RECEIPTS					
SOYBEANS***	BU.	70.00	\$12.95	\$906.50	
TOTAL RECEIPTS:				\$906.50	
2. VARIABLE COSTS					
SOYBEAN SEED	THOU.	130.00	\$0.55	\$71.50	
FERTILIZER					
46% SUPERPHOSPHATE	LBS	122.00	\$0.46	\$56.12	
0-0-60 MURATE OF POTASH	LBS	164.00	\$0.51		
LIME SPREAD	TON	0.33	\$85.00	\$28.05	
HERBICIDES**	ACRE	1.00	\$15.51		
FUNGICIDES**	ACRE	1.00	\$27.25	\$27.25	
INSECTICIDES**	ACRE	1.00	\$45.00	\$45.00	
FERTILIZER SPREADING	ACRE	1.00	\$12.00		
HAULING	BU.	70.00	\$0.60		
TRACTOR/MACHINERY	ACRE	1.00	\$84.83	ቁት <u>ት</u> .00 \$84 83	
CONSULTING SERVICES****	ACRE	1.00	\$84.83 \$26.00		
LABOR		1.00	\$28.00 \$14.91		
INTEREST ON OP. CAP.	DOL.	1.58 \$217.73	\$14.91 8.5%	Φ23.00 <u></u> ¢18.51	
INTEREST ON UP. CAP.	DOL.	\$Z17.73	0.370	۵۱۵.۵۱	
TOTAL VARIABLE COSTS:			_	\$533.97	
3. INCOME ABOVE VARIABLE COSTS:				\$372.53	
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$166.53	\$166.53	
TOTAL FIXED COSTS:			_	\$166.53	
5. OTHER COSTS					
GENERAL OVERHEAD	DOL.	\$533.97	7.0%	\$37.38	
TOTAL OTHER COSTS:			=	\$37.38	
				<u> </u>	
6. TOTAL COSTS:				\$737.88	
7. NET RETURNS TO LAND, RISK, AND MANAG	EMENT:			\$168.62	
BREAK-EVEN YIELD					
VARIABLE COSTS	41	BU.	VARIABLE (\$7.63
TOTAL COSTS	57	BU.	TOTAL COS	STS	\$10.54

-THIS BUDGET WAS DEVELOPED FOR PLANNING PURPOSES ONLY AND DOES NOT INCLUDE LAND RENT, EACH GROWER SHOULD

CALCULATE THEIR COST BASED ON THEIR PRICE OF INPUTS, LOCATION, AND MAINTENANCE PRACTICES

- FERTILIZER AMOUNTS ARE BASED ON HISTORICAL DATA OF REMOVAL RATES FOR N, P2O5, K20 AND YIELD. GROWERS SHOULD SOIL SAMPLE TO DETERMINE RATES OF APPLICATION FOR NUTRIENTS IN SOYBEANS

SOYBEAN	SOYBEANS - FULL SEASON-HIGH YIELD								
	PER ACRE MACHINERY AND LABOR			_					
MONTH	OPERATION	TIMES	LABOR	MACHINE	VARIABLE	FIXED			
		OVER	HOURS	HOURS	COSTS	COSTS			
5	HEAVY DISK 20'	1.00	0.12	0.10	\$5.39	\$14.38			
5	TANDOM LIGHT DISK 30'	1.00	0.08	0.07	\$5.43	\$12.25			
5 or 6	PLANTER 16-ROW	1.00	0.14	0.12	\$7.75	\$36.38			
5,6	HIBOY 90'	4.00	0.10	0.08	\$17.76	\$32.00			
10	COMBINE LARGE W/ HEADER 30'	1.00	0.14	0.12	\$42.80	\$62.94			
10	GRAIN CART 2000	1.00	0.12	0.10	\$5.70	\$8.58			
PER AC	RE TOTALS FOR								
SELECTED OPERATIONS			0.70	0.59	\$84.83	\$166.53			
UNALLOCATED LABOR(HRS./AC.)			0.88						

-EQUIPMENT SELECTION IN THESE BUDGETS VARY FOR COST REPRESENTATION OF VARIATION IN PRACTICES, ACTUAL EQUIPMENT SELECTION WILL VARY FROM FARM TO FARM AND REGION TO REGION

YIELD	/ARIABLE COSTS AT DIFFERING YIELDS AND PRICES PRICE (\$/bu.)						
BU.	\$11.66	\$12.30	\$12.95	\$13.60	\$14.25		
59	\$160.57	\$198.33	\$236.68	\$275.03	\$313.38		
64	\$215.87	\$256.83	\$298.43	\$340.03	\$381.63		
70	\$282.23	\$327.03	\$372.53	\$418.03	\$463.53		
76	\$348.59	\$397.23	\$446.63	\$496.03	\$545.43		
81	\$403.89	\$455.73	\$508.38	\$561.03	\$613.68		

*THE YIELD REPRESENTED IN THIS BUDGET IS NOT A FUNCTION OF THE MAINTENANCE PRACTICES LISTED. IT IS ASSUMED FARMERS WILL ADJUST THEIR MAINTENANCE PRACTICES BASED ON THEIR ABILITY TO MAXIMIZE PROFIT WITH THEIR GIVEN YIELD HISTORY. **HERBICIDE COST ASSUMED NO RESISTANCE MANAGEMENT, GROWERS SHOULD ONLY APPLY PESTICIDES AS NEEDED

SOYBEAN PRICES IN THIS BUDGET ARE BASED ON FUTURES PRICES + .30 BASIS FOR LOCAL CONTRACTS AS OF 12-5-2023, BASIS *CONSULTING SERVICES INCLUDE SOIL SAMPLING WITH ANALYSIS AND SCOUTING IN SEASON

IN NORTH CAROINA IS RELATIVE TO THE DISTANCE FROM SOYBEAN PROCESSING FACLITIES IN FAYETTEVILLE, NC Prepared by: Derek Washburn and Cassie Scanlan, NC State Department of Agricultural and Resource Economics Edited by: Rachel Vann, Wesley Everman, Jenny Carleo, and LeAnn Lux -NC State Department of Crop and Soil Science