## Soybean, Low Yield History\*-2024

**NC STATE** UNIVERSITY

ESTIMATED COSTS AND RETURNS PER ACRE, 2024 30 BUSHEL AVERAGE YIELD HISTORY\*

			PRICE OR	TOTAL	YOUR
	UNIT	QUANTITY	COST/UNIT	PER ACRE	FARM
GROSS RECEIPTS					
SOYBEANS***	BU.	30.00	\$12.95	\$388.50	
33.223	20.	33.00	Ψ.Ξ.σσ	<u></u>	
TOTAL RECEIPTS:				\$388.50	
2. VARIABLE COSTS					
SOYBEAN SEED FERTILIZER	THOU.	130.00	\$0.44	\$57.20	
46% SUPERPHOSPHATE	LBS	53.00	\$0.46	\$24.38	
0-0-60 MURATE OF POTASH	LBS	70.00	\$0.51	\$35.70	
LIME SPREAD	TON	0.33	\$85.00	\$28.05	
HERBICIDES**	ACRE	1.00	\$14.71	\$14.71	
FUNGICIDES**	ACRE	1.00	\$0.00	\$0.00	
INSECTICIDES**	ACRE	1.00	\$0.00		
FERTILIZER SPREADING	ACRE	1.00	\$12.00	\$12.00 <u> </u>	
HAULING	BU.	30.00	\$0.60	\$18.00	
TRACTOR/MACHINERY	ACRE	1.00	\$80.43	\$80.43	
CONSULTING SERVICES****	ACRE	1.00	\$6.00	\$6.00	
LABOR	HRS	2.05	\$14.91	\$30.57	
INTEREST ON OP. CAP.	DOL.	\$141.52	8.5%	\$12.03	
TOTAL VARIABLE COSTS:			<u></u>	\$319.07	
B. INCOME ABOVE VARIABLE COSTS:				\$69.43	
I. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$148.00	\$148.00	
TOTAL FIXED COSTS:			_	\$148.00	
5. OTHER COSTS GENERAL OVERHEAD	DOL.	\$319.07	7.0%	\$22.33	
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TOTAL OTHER COSTS:				\$22.33	
6. TOTAL COSTS:				\$489.40	

<sup>-</sup>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

25

**VARIABLE COSTS** 

**TOTAL COSTS** 

BU.

BU.

VARIABLE COSTS

**TOTAL COSTS** 

\$10.64

\$16.31

<sup>-</sup> 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

SOYBEANS - FULL SEASON-CONVENTIONAL									
	PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR SOYBEANS								
MONTH	OPERATION	TIMES	LABOR	MACHINE	VARIABLE	FIXED			
		OVER	HOURS	HOURS	COSTS	COSTS			
5	HEAVY DISK 14'	1.00	0.18	0.15	\$5.83	\$13.59			
5	TANDOM LIGHT DISK 20'	1.00	0.12	0.10	\$7.28	\$16.81			
5 or 6	PLANTER 8-ROW	1.00	0.13	0.11	\$5.35	\$23.53			
5,6	TRACTOR MTD SPRAYER 60 FT	2.00	0.10	0.08	\$3.56	\$12.48			
10	COMBINE W/ HEADER 20'	1.00	0.22	0.18	\$50.78	\$74.69			
10	GRAIN CART 1100	1.00	0.16	0.13	\$7.63	\$6.90			
PFR AC	RE TOTALS FOR								
	ED OPERATIONS		0.91	0.75	\$80.43	\$148.00			
UNALLO	OCATED LABOR(HRS./AC.)		1.14						

<sup>-</sup>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

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES							
YIELD			PRICE (\$/b	u.)			
BU.	\$11.66	\$12.30	\$12.95	\$13.60	\$14.25		
25	-\$24.57	-\$8.57	\$7.68	\$23.93	\$40.18		
28	\$8.61	\$26.53	\$44.73	\$62.93	\$81.13		
30	\$30.73	\$49.93	\$69.43	\$88.93	\$108.43		
32	\$52.85	\$73.33	\$94.13	\$114.93	\$135.73		
35	\$86.03	\$108.43	\$131.18	\$153.93	\$176.68		

<sup>\*</sup>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 YEILD HISTORY .

<sup>\*\*</sup>HERBICIDE COST ASSUMED NO RESISTANCE MANAGEMENT, GROWERS SHOULD ONLY APPLY PESTICIDES AS NEEDED

<sup>\*\*\*</sup>SOYBEAN PRICES IN THIS BUDGET ARE BASED ON FUTURES PRICES + .30 BASIS FOR LOCAL CONTRACTS AS OF 12-5-2023, BASIS \*\*\*\*CONSULTING SERVICES INCLUDES SOIL SAMPLING

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