Soybean, High Yield Threshold*-2023



ESTIMATED COSTS AND RETURNS PER ACRE, 2023

			PRICE OR	TOTAL	YOUR
	UNIT	QUANTITY	COST/UNIT	PER ACRE	FARM
GROSS RECEIPTS					
SOYBEANS***	BU.	70.00	\$14.22	\$995.40	
TOTAL RECEIPTS:				\$995.40	
VARIABLE COSTS				,	
SEED (CERTIFIED)	THOU.	130.00	\$0.42	\$54.60	
FERTILIZER	11100.	130.00	Φ0.42	\$54.00	
PHOSPHATE (0-46-0)	LBS	120.00	\$0.46	\$55.20	
POTASH (0-0-60)	LBS	164.00	\$0.51	\$83.64	
LIME (PRORATED)	TON	0.33	\$57.00	\$18.81	
HERBICIDES**	ACRE	1.00	\$72.61	\$72.61	
FUNGICIDES**	ACRE	1.00	\$47.41	\$47.41	
INSECTICIDES**	ACRE	1.00	\$16.50	\$16.50 <u> </u>	
HAULING	BU.	70.00	\$0.60		
TRACTOR/MACHINERY	ACRE	1.00	\$84.70	\$42.00 \$84.70	
SCOUT	ACRE	1.00	\$16.00		
LABOR	HRS	1.67	\$16.00 \$14.16	\$16.00	
INTEREST ON OP. CAP.	DOL.	\$216.74	8.0%	\$23.65	
INTEREST ON OP. CAP.	DOL.	\$210.74	6.0%	\$17.34	
TOTAL VARIABLE COSTS:			_	\$532.46	
INCOME ABOVE VARIABLE COSTS:				\$462.94	
FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$106.84	\$106.84	
			_	_	
TOTAL FIXED COSTS:				\$106.84	
OTHER COSTS					
GENERAL OVERHEAD	DOL.	\$532.46	7.0%	\$37.27	
TOTAL OTHER COCTO.			_	\$37.27	
TOTAL OTHER COSTS:				\$37.27	
. TOTAL COSTS:				\$676.57	
NET RETURNS TO LAND, RISK, AND MA	NAGEMENT:			\$318.83	
BREAK-EVEN YIELD	BR		EAK-EVEN PRICE		
VARIABLE COSTS	37	BU.	VARIABLE COSTS		\$7.61 \$9.67
TOTAL COSTS	48	BU.	TOTAL COS	TOTAL COSTS	

⁻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 MAINTENECE PRACTICES

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

SOYBEAN	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 20'	1.00	0.12	0.10	\$4.61	\$8.00		
5 5	TANDOM LIGHT DISK 30'	1.00	0.12	0.10	\$4.95	\$6.84		
_					*	•		
5 or 6	PLANTER 16-ROW	1.00	0.14	0.12	\$7.13	\$21.50		
5,6	HIBOY 90'	4.00	0.14	0.12	\$24.44	\$28.80		
10	COMBINE LARGE W/ HEADER 30'	1.00	0.14	0.12	\$38.47	\$36.88		
10	GRAIN CART 2000	1.00	0.12	0.10	\$5.10	\$4.82		
PER ACI	RE TOTALS FOR							
SELECT	ED OPERATIONS		0.74	0.63	\$84.70	\$106.84		
UNALLO	CATED LABOR(HRS./AC.)		0.93					

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

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES									
YIELD		PRICE (\$/bu.)							
BU.	\$12.80	\$13.51	\$14.22	\$14.93	\$15.64				
59	\$229.34	\$271.23	\$313.12	\$355.01	\$396.90				
64	\$290.34	\$335.78	\$381.22	\$426.66	\$472.10				
70	\$363.54	\$413.24	\$462.94	\$512.64	\$562.34				
76	\$436.74	\$490.70	\$544.66	\$598.62	\$652.58				
81	\$497.74	\$555.25	\$612.76	\$670.27	\$727.78				

^{*}THE YEILD 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.

^{**}HERBICIDE COST ASSUME NO RESISTANCE MANAGEMENT, GROWERS SHOULD ONLY APPLY PESTICIDES AS NEEDED

^{***}SOYBEAN PRICES IN THIS BUDGET ARE BASED ON FUTURES PRICES + .15 BASIS FOR LOCAL CONTRACTS AS OF 12-15-2022, BASIS IN NORTH CAROINA IS RELATIVE TO THE DISTANCE FROM SOYBEAN PROCESSING FACLITIES IN FAYETTEVILLE, NC Prepared by: Derek Washburn, NC State Department of Agricultural and Resource Economics Edited by: Rachel Vann, Wesley Everman, and Jenny Carleo -NC State Department of Crop and Soil Science