

# Soybean, Full Season-Conventional-2021 NC STATE UNIVERSITY

ESTIMATED COSTS AND RETURNS PER ACRE, 2021  
35 BUSHEL ACTUAL YIELD.

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
<b>1. GROSS RECEIPTS</b>					
SOYBEANS	BU.	40.00	\$10.37	\$414.80	_____
TOTAL RECEIPTS:				<b>\$414.80</b>	_____
<b>2. VARIABLE COSTS</b>					
SEED (CERTIFIED) FERTILIZER	THOU.	110.00	\$0.40	\$44.00	_____
PHOSPHATE (0-46-0)	LBS	70	\$0.26	\$18.09	_____
POTASH (0-0-60)	LBS	99	\$0.21	\$20.72	_____
LIME (PRORATED)	TON	0.33	\$54.50	\$17.99	_____
HERBICIDES	ACRE	1.00	\$31.59	\$31.59	_____
INSECTICIDES	ACRE	1.00	\$0.00	\$0.00	_____
FUNGICIDES	ACRE	1.00	\$0.00	\$0.00	_____
SURFACTANT	ACRE	1.00	\$1.58	\$1.58	_____
AERIAL APPLICATION	APPL	0.00	\$0.00	\$0.00	_____
HAULING	BU.	40.00	\$0.26	\$10.40	_____
TRACTOR/MACHINERY	ACRE	1.00	\$25.41	\$25.41	_____
LABOR	HRS	1.82	\$12.67	\$23.06	_____
SCOUT	ACRE	1.00	\$12.00	\$12.00	_____
INTEREST ON OP. CAP.	DOL.	\$79.69	2.7%	\$2.17	_____
TOTAL VARIABLE COSTS:				<b>\$207.01</b>	_____
<b>3. INCOME ABOVE VARIABLE COSTS:</b>				<b>\$207.79</b>	_____
<b>4. FIXED COSTS</b>					
TRACTOR/MACHINERY	ACRE	1.00	\$54.67	\$54.67	_____
TOTAL FIXED COSTS:				<b>\$54.67</b>	_____
<b>5. OTHER COSTS</b>					
GENERAL OVERHEAD	DOL.	\$207.01	7.0%	\$14.49	_____
TOTAL OTHER COSTS:				<b>\$14.49</b>	_____
<b>6. TOTAL COSTS:</b>				<b>\$276.17</b>	_____
<b>7. NET RETURNS TO LAND, RISK, AND MANAGEMENT:</b>				<b>\$138.63</b>	_____

<b><u>BREAK-EVEN YIELD</u></b>		<b><u>BREAK-EVEN PRICE</u></b>	
VARIABLE COSTS	20 BU.	VARIABLE COSTS	\$5.18
TOTAL COSTS	27 BU.	TOTAL COSTS	\$6.90

\* 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 AND LOCATION

\*FERTILIZER IS PRICED ON A PER POUND BASIS WITH NO ADJUSTMENTS FOR NUTRIENT COST PER LB

\*SOYBEAN PRICES ARE DECEMBER FUTURE PRICES IN FALL OF 2016 PLUS A POSITIVE BASIS FOR THE COSTAL PLAIN

SOYBEANS - FULL SEASON-CONVENTIONAL-COASTAL PLAIN						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR 35 BUSHEL SOYBEANS						
MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
5	HEAVY DISK 14'	1.00	0.17	0.15	\$3.68	\$4.97
6	TANDOM LIGHT DISK 20'	1.00	0.08	0.07	\$3.81	\$5.15
7	PLANTER 12-ROW	1.00	0.11	0.10	\$5.13	\$16.25
5 or 6	HIBOY 90'	2.00	0.07	0.06	\$1.34	\$14.36
5,6	COMBINE W/ HEADER 24'	1.00	0.17	0.15	\$4.54	\$10.38
5,7	GRAIN CART 1100	1.00	0.14	0.13	\$6.91	\$3.56
PER ACRE TOTALS FOR SELECTED OPERATIONS			0.81	0.66	\$25.41	\$54.67
UNALLOCATED LABOR(HRS./AC.)			1.01			

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES					
YIELD	PRICE (\$/bu.)				
BU.	\$9.33	\$9.85	\$10.37	\$10.89	\$11.41
36	\$129.91	\$148.63	\$167.35	\$186.07	\$204.79
38	\$148.05	\$167.81	\$187.57	\$207.33	\$227.09
40	\$166.19	\$186.99	\$207.79	\$228.59	\$249.39
44	\$202.47	\$225.35	\$248.23	\$271.11	\$293.99
50	\$256.89	\$282.89	\$308.89	\$334.89	\$360.89

\*NC STATE DOES NOT ENDORSE ANY COMPANY OR CHEMICAL NAMES ASSOCIATED TO ACTIVE INGREDIENTS  
 \*HERBICIDE COST ASSUME THE NEED FOR RESISTANCE MANAGEMENT, HAND WEEDING COST NOT INCLUDED  
 \*\*CHEMICALS LISTED ARE NOT A RECOMMENDATION FOR CHEMICAL USE BUT A REPRESENTATION OF COST ASSUMPTIONS ONLY

PEST CONTROL ASSUMPTIONS FOR 35 BUSHEL SOYBEANS, CONVENTIONAL					
	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH
<b>**HERBICIDES:</b>					
pendimethalin (Prowl)	PT	1.80	\$4.13	\$7.43	MAY/JUNE
flumioxazin (Valor)	OZ	2.00	\$4.50	\$9.00	MAY/JUNE
glyphosate (Roundup ultra)	QT	1.50	\$4.19	\$6.28	JUNE
Fomasafen (Reflex)	PT	1.00	\$8.88	\$8.88	JUNE
<b>**INSECTICIDE</b>					
<b>**FUNGICIDE</b>					
TOTAL:				\$31.59	

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