

Soybean, Full Season-Conventional-2020

NC STATE
UNIVERSITY

ESTIMATED COSTS AND RETURNS PER ACRE, 2020
35 BUSHEL ACTUAL YIELD.

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
1. GROSS RECEIPTS					
SOYBEANS	BU.	40.00	\$9.42	\$376.80	_____
TOTAL RECEIPTS:				\$376.80	_____
2. VARIABLE COSTS					
SEED (CERTIFIED)	THOU.	110.00	\$0.40	\$44.00	_____
FERTILIZER					
PHOSPHATE (0-46-0)	LBS	70	\$0.26	\$18.09	_____
POTASH (0-0-60)	LBS	99	\$0.23	\$22.69	_____
LIME (PRORATED)	TON	0.33	\$51.00	\$16.83	_____
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	\$12.23	\$22.26	_____
SCOUT	ACRE	1.00	\$12.00	\$12.00	_____
INTEREST ON OP. CAP.	DOL.	\$80.10	5.0%	\$4.00	_____
TOTAL VARIABLE COSTS:				\$208.85	_____
3. INCOME ABOVE VARIABLE COSTS:				\$167.95	_____
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$54.67	\$54.67	_____
TOTAL FIXED COSTS:				\$54.67	_____
5. OTHER COSTS					
GENERAL OVERHEAD	DOL.	\$208.85	7.0%	\$14.62	_____
TOTAL OTHER COSTS:				\$14.62	_____
6. TOTAL COSTS:				\$278.14	_____
7. NET RETURNS TO LAND, RISK, AND MANAGEMENT:				\$98.66	_____

<u>BREAK-EVEN YIELD</u>		<u>BREAK-EVEN PRICE</u>	
VARIABLE COSTS	22 BU.	VARIABLE COSTS	\$5.22
TOTAL COSTS	30 BU.	TOTAL COSTS	\$6.95

* 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.	\$8.48	\$8.95	\$9.42	\$9.89	\$10.36	
36	\$97.47	\$114.39	\$131.31	\$148.23	\$165.15	
38	\$113.91	\$131.77	\$149.63	\$167.49	\$185.35	
40	\$130.35	\$149.15	\$167.95	\$186.75	\$205.55	
44	\$163.23	\$183.91	\$204.59	\$225.27	\$245.95	
50	\$212.55	\$236.05	\$259.55	\$283.05	\$306.55	

*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	
**HERBICIDES:						
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	
**INSECTICIDE						
**FUNGICIDE						
TOTAL:				\$31.59		

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