

Soybean/Wheat-Conventional - 2021

NC STATE
UNIVERSITY

ESTIMATED COSTS AND RETURNS PER ACRE, 2021
60 BUSHEL WHEAT YIELD AND 35 BUSHEL SOYBEANS YIELD

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
1. GROSS RECEIPTS					
SOYBEANS	BU.	35.00	\$10.37	\$362.95	_____
WHEAT	BU.	60.00	\$5.83	\$349.80	_____
TOTAL RECEIPTS:				\$712.75	_____
2. VARIABLE COSTS					
SEED (WHEAT)	BU.	1.75	\$22.50	\$39.38	_____
SEED (SOYBEANS)	THOU.	120.00	\$0.40	\$48.00	_____
FERTILIZER					
NITROGEN (30%)	LBS	100.00	\$0.14	\$14.00	_____
PHOSPHATE (0-46-0)	LBS	130.00	\$0.26	\$33.80	_____
POTASH (0-0-60)	LBS	123.00	\$0.21	\$25.83	_____
LIME (PRORATED)	TON	0.33	\$54.50	\$17.99	_____
HERBICIDES	ACRE	1.00	\$46.88	\$46.88	_____
INSECTICIDES	ACRE	1.00	\$10.19	\$10.19	_____
FUNGICIDES	ACRE	1.00	\$7.06	\$7.06	_____
SURFACTANT	ACRE	1.00	\$3.21	\$3.21	_____
AERIAL APPLICATION	APPL	0.00	\$9.00	\$0.00	_____
HAULING	BU.	95.00	\$0.26	\$24.70	_____
TRACTOR/MACHINERY	ACRE	1.00	\$46.69	\$46.69	_____
LABOR	HRS	2.99	\$12.67	\$37.88	_____
SCOUT	ACRE	1.00	\$8.00	\$8.00	_____
INTEREST ON OP. CAP.	DOL.	\$142.11	2.7%	\$3.87	_____
TOTAL VARIABLE COSTS:				\$367.48	_____
3. INCOME ABOVE VARIABLE COSTS:				\$345.27	_____
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$101.92	\$101.92	_____
TOTAL FIXED COSTS:				\$101.92	_____
5. OTHER COSTS					
GENERAL OVERHEAD	DOL.	\$367.48	7.0%	\$25.72	_____
TOTAL OTHER COSTS:				\$25.72	_____
6. TOTAL COSTS:				\$495.12	_____
7. NET RETURNS TO LAND, RISK, AND MANAGEMENT:				\$217.63	_____

BREAK-EVEN YIELD

		<u>BREAK-EVEN PRICE</u>	
VARIABLE COSTS	1 BU.	VARIABLE COSTS	\$0.51
TOTAL COSTS	13 BU.	TOTAL COSTS	\$4.15

* PLEASE NOTE: THIS BUDGET IS FOR PLANNING PURPOSES ONLY.

*BREAKEVEN YEILDS ARE CACLUATED FROM AVERAGE YEILDS AND AVERAGE RETURNS FROM EACH CROP COMBINED

*EACH GROWER SHOULD CALCULATE THEIR COST BASED ON THEIR PRICE OF INPUTS AND LOCATION

*FERTILIZATION RATES ARE NOT A RECOMMENDATION BUT AN ASSUMPTION OF REALIZED COST BASED ON REMOVAL RATES

SOYBEANS - FOLLOWING WHEAT, CONVENTIONAL TILLAGE						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR DOUBLE-CROP SOYBEANS/WHEAT						
MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
10	HEAVY DISK 14'	1.00	0.17	0.15	\$3.68	\$4.97
11	TANDOM LIGHT DISK 20'	1.00	0.08	0.07	\$3.81	\$5.15
10 or 11	GRAIN DRILL 16'	1.00	0.14	0.13	\$3.24	\$4.57
6	PLANTER NO-TILL 16-ROW	1.00	0.12	0.11	\$10.49	\$25.21
10,11,6,7	HIBOY 90'	5.00	0.17	0.15	\$3.35	\$35.90
11&6	COMBINE LARGE W/ HEADER 34'	2.00	0.24	0.22	\$8.30	\$19.00
11&6	GRAIN CART 1100	2.00	0.29	0.26	\$13.82	\$7.12
PER ACRE TOTALS FOR SELECTED OPERATIONS			1.33	1.09	\$46.69	\$101.92
UNALLOCATED LABOR(HRS./AC.)			1.66			

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES						
YIELD		PRICE (\$/bu.)				
SOYBEANS ----->>		\$9.33	\$9.85	\$10.37	\$10.89	\$11.41
WHEAT ----->>		\$5.25	\$5.54	\$5.83	\$6.12	\$6.41
28	48	\$150.70	\$179.18	\$207.66	\$236.14	\$264.62
32	54	\$216.92	\$249.22	\$281.52	\$313.82	\$346.12
35	60	\$274.07	\$309.67	\$345.27	\$380.87	\$416.47
39	66	\$340.29	\$379.71	\$419.13	\$458.55	\$497.97
42	72	\$397.44	\$440.16	\$482.88	\$525.60	\$568.32

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

CHEMICAL USE ASSUMPTIONS FOR DOUBLE-CROP SOYBEANS/WHEAT						
		UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	MONTH
*HERBICIDES						
Wheat	thifensulfuron+tribenuron (Harmony Extra)	OZ	0.90	\$12.68	\$11.41	OCT
Soy	flumioxazin (Valor)	OZ	3.00	\$4.50	\$13.50	JUN
Soy	metolachlor (Dual Magnum)	PT	1.00	\$13.09	\$13.09	JUL
Soy	Fomasafen (Reflex)	PT	1.00	\$8.88	\$8.88	JUL
*FUNGICIDES						
Wheat	azoxystrobin (Abound)	OZ	4.00	\$1.76	\$7.06	APR
*INSECTICIDES						
Wheat	lambda-cyhalothrin (Karate-Z)	OZ	2.50	\$1.49	\$3.73	AUG
Soy	cyfluthrin (Baythroid)	OZ	5.80	\$1.11	\$6.46	APR
TOTAL:					\$64.13	

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