



Wheat, Mod Yield History*-2024

NC STATE
UNIVERSITY

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

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
1. GROSS RECEIPTS					
WHEAT***	BU.	75.00	\$7.60	\$570.00	_____
TOTAL RECEIPTS:				\$570.00	_____
2. VARIABLE COSTS					
WHEAT SEED	MIL	1.50	\$47.50	\$71.25	_____
FERTILIZER					
UAN-32	LBS	293.00	\$0.64	\$187.52	_____
46% SUPERPHOSPHATE	LBS	82.00	\$0.46	\$37.72	_____
0-0-60 MURATE OF POTASH	LBS	46.00	\$0.51	\$23.46	_____
LIME SPREAD	TON	0.33	\$85.00	\$28.05	_____
HERBICIDES**	ACRE	1.00	\$36.24	\$36.24	_____
FUNGICIDES**	ACRE	1.00	\$4.06	\$4.06	_____
INSECTICIDES**	ACRE	1.00	\$0.00	\$0.00	_____
FERTILIZER SPREADING	ACRE	1.00	\$12.00	\$12.00	_____
HAULING	BU.	75.00	\$0.15	\$11.25	_____
TRACTOR/MACHINERY	ACRE	1.00	\$62.85	\$62.85	_____
CONSULTING SERVICES****	ACRE	1.00	\$15.00	\$15.00	_____
LABOR	HRS	1.80	\$14.91	\$26.84	_____
INTEREST ON OP. CAP.	DOL.	\$245.00	8.5%	\$20.82	_____
TOTAL VARIABLE COSTS:				\$537.06	_____
3. INCOME ABOVE VARIABLE COSTS:				\$32.94	_____
4. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$77.26	\$77.26	_____
TOTAL FIXED COSTS:				\$77.26	_____
5. OTHER COSTS					
GENERAL OVERHEAD	DOL.	\$537.06	7.0%	\$37.59	_____
TOTAL OTHER COSTS:				\$37.59	_____
6. TOTAL COSTS:				\$651.91	_____
7. NET RETURNS TO LAND, RISK, AND MANAGEMENT:				-\$81.91	_____

<u>BREAK-EVEN YIELD</u>		<u>BREAK-EVEN PRICE</u>	
VARIABLE COSTS	71 BU.	VARIABLE COSTS	\$7.16
TOTAL COSTS	86 BU.	TOTAL COSTS	\$8.69

-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

- FERTILIZER AMOUNTS ARE BASED ON HISTORICAL DATA OF REMOVAL RATES FOR N, P2O5, K2O AND YIELD. GROWERS SHOULD SOIL SAMPLE TO DETERMINE RATES OF APPLICATION FOR NUTRIENTS IN WHEAT



WHEAT FOR GRAIN						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR 65 BUSHEL WHEAT						
MONTH	OPERATION	TIMES OVER	LABOR HOURS	MACHINE HOURS	VARIABLE COSTS	FIXED COSTS
11	HEAVY DISK 16'	1.00	0.14	0.12	\$4.56	\$7.08
11	TANDOM LIGHT DISK 20'	1.00	0.14	0.12	\$3.80	\$5.02
6	GRAIN DRILL 16'	1.00	0.16	0.13	\$3.40	\$4.76
6	TRACTOR MTD SPRAYER 90FT	4.00	0.14	0.12	\$5.44	\$16.64
6	COMBINE W/ HEADER 20'	1.00	0.22	0.18	\$45.65	\$43.76
PER ACRE TOTALS FOR SELECTED OPERATIONS			0.80	0.67	\$62.85	\$77.26
UNALLOCATED LABOR(HRS./AC.)			1.00			

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES						
YIELD	PRICE (\$/bu.)					
BU.	\$6.84	\$7.22	\$7.60	\$7.98	\$8.36	
68	-\$70.89	-\$45.05	-\$19.21	\$6.63	\$32.47	
71	-\$50.82	-\$23.84	\$3.14	\$30.12	\$57.10	
75	-\$24.06	\$4.44	\$32.94	\$61.44	\$89.94	
79	\$2.70	\$32.72	\$62.74	\$92.76	\$122.78	
83	\$29.46	\$61.00	\$92.54	\$124.08	\$155.62	

*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 YIELD HISTORY.

**HERBICIDE COST ASSUMED NO RESISTANCE MANAGEMENT, GROWERS SHOULD ONLY APPLY PESTICIDES AS NEEDED

***FEED WHEAT PRICES IN THIS BUDGET ARE BASED ON FUTURES PRICES + .90 BASIS FOR LOCAL CONTRACTS AS OF 12-5-2023, PRICE AND BASIS FOR FEED WHEAT IN NORTH CAROLINA IS RELATIVE TO THE PRICE OF CORN

****CONSULTING SERVICES INCLUDES SOIL SAMPLE WITH ANALYSIS

Prepared by: Derek Washburn and Cassie Scanlan, NC State Department of Agricultural and Resource Economics

Edited by: Angela Post, Wesley Everman, and Jenny Carleo -NC State Department of Crop and Soil Science