



# Wheat, High Yield History\*-2024

NC STATE  
UNIVERSITY

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

	UNIT	QUANTITY	PRICE OR COST/UNIT	TOTAL PER ACRE	YOUR FARM
<b>1. GROSS RECEIPTS</b>					
WHEAT***	BU.	95.00	\$7.60	\$722.00	_____
TOTAL RECEIPTS:				<b>\$722.00</b>	_____
<b>2. VARIABLE COSTS</b>					
WHEAT SEED	MIL	1.50	\$52.00	\$78.00	_____
FERTILIZER					
UAN-32	LBS	372.00	\$0.64	\$238.08	_____
46% SUPERPHOSPHATE	LBS	104.00	\$0.46	\$47.84	_____
0-0-60 MURATE OF POTASH	LBS	59.00	\$0.51	\$30.09	_____
LIME SPREAD	TON	0.33	\$85.00	\$28.05	_____
HERBICIDES**	ACRE	1.00	\$43.58	\$43.58	_____
FUNGICIDES**	ACRE	1.00	\$20.33	\$20.33	_____
INSECTICIDES**	ACRE	1.00	\$3.42	\$3.42	_____
FERTILIZER SPREADING	ACRE	1.00	\$12.00	\$12.00	_____
HAULING	BU.	95.00	\$0.15	\$14.25	_____
TRACTOR/MACHINERY	ACRE	1.00	\$76.94	\$76.94	_____
CONSULTING SERVICES****	ACRE	1.00	\$26.00	\$26.00	_____
LABOR	HRS	1.55	\$14.91	\$23.11	_____
INTEREST ON OP. CAP.	DOL.	\$294.72	8.5%	\$25.05	_____
TOTAL VARIABLE COSTS:				<b>\$666.74</b>	_____
<b>3. INCOME ABOVE VARIABLE COSTS:</b>				<b>\$55.26</b>	_____
<b>4. FIXED COSTS</b>					
TRACTOR/MACHINERY	ACRE	1.00	\$84.96	\$84.96	_____
TOTAL FIXED COSTS:				<b>\$84.96</b>	_____
<b>5. OTHER COSTS</b>					
GENERAL OVERHEAD	DOL.	\$666.74	7.0%	\$46.67	_____
TOTAL OTHER COSTS:				<b>\$46.67</b>	_____
<b>6. TOTAL COSTS:</b>				<b>\$798.37</b>	_____
<b>7. NET RETURNS TO LAND, RISK, AND MANAGEMENT:</b>				<b>-\$76.37</b>	_____

### BREAK-EVEN YIELD

VARIABLE COSTS  
TOTAL COSTS

88 BU.  
105 BU.

### BREAK-EVEN PRICE

VARIABLE COSTS  
TOTAL COSTS

\$7.02  
\$8.40

-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, 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 20'	1.00	0.12	0.10	\$4.61	\$8.00
11	TANDOM LIGHT DISK 30'	1.00	0.08	0.07	\$4.95	\$6.84
6	GRAIN DRILL 16'	1.00	0.16	0.13	\$3.40	\$4.76
6	HIBOY 90'	3.00	0.11	0.09	\$18.33	\$21.60
6	COMBINE W/ HEADER 20'	1.00	0.22	0.18	\$45.65	\$43.76
PER ACRE TOTALS FOR SELECTED OPERATIONS			0.69	0.57	\$76.94	\$84.96
UNALLOCATED LABOR(HRS./AC.)			0.86			

**INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES**

YIELD	PRICE (\$/bu.)				
BU.	\$6.84	\$7.22	\$7.60	\$7.98	\$8.36
86	-\$77.15	-\$44.47	-\$11.79	\$20.89	\$53.57
90	-\$50.39	-\$16.19	\$18.01	\$52.21	\$86.41
95	-\$16.94	\$19.16	\$55.26	\$91.36	\$127.46
100	\$16.51	\$54.51	\$92.51	\$130.51	\$168.51
105	\$49.96	\$89.86	\$129.76	\$169.66	\$209.56

\*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

\*\*\*\*CONSULTING SERVICES INCLUDES SOIL SAMPLING WITH ANALYSIS AND IN SEASON SCOUTING

AND BASIS FOR FEED WHEAT IN NORTH CAROLINA IS RELATIVE TO THE PRICE OF CORN

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