

## Wheat, Low Yield Threshold\*-2023

NC STATE UNIVERSITY

ESTIMATED COSTS AND RETURNS PER ACRE, 2023 65 BUSHEL YIELD AVERAGE HISTORY\*

			PRICE OR	TOTAL	YOUR
	UNIT	QUANTITY	COST/UNIT	PER ACRE	FARM
CDOSS DECEIPTS					
. GROSS RECEIPTS WHEAT***	BU.	FF 00	<b>\$7.25</b>	\$404.2E	
WHEAT	DU.	55.00	\$7.35	ֆ404.25 <u></u>	
TOTAL RECEIPTS:				\$404.25	
VARIABLE COSTS					
SEED (CERTIFIED)	MIL	1.50	\$16.50	\$24.75	
FERTILIZER					
30-0-0, NITROGEN SOLUTION	LBS	230.00	\$0.36		
0-46-0, SUPER PHOSPHATE	LBS	60.00	\$0.46	\$27.60	
0-0-60, POTASH	LBS	34.00	\$0.51	\$17.34	
LIME (PRORATED)	TON	0.33	\$57.00	\$18.81	
HERBICIDES**	ACRE	1.00	\$10.49	\$10.49	
FUNGICIDES**	ACRE	1.00	\$0.00	\$0.00	
INSECTICIDES**	ACRE	1.00	\$0.00	\$0.00	
AERIAL APPLICATION	APPL	0.00	\$14.00		
HAULING	BU.	55.00	\$0.15	\$8.25	
TRACTOR/MACHINERY	ACRE	1.00	\$54.05	\$54.05	
SCOUT	ACRE	0.00	\$16.00	\$0.00	
LABOR	HRS	1.31	\$14.16	\$18.55	
INTEREST ON OP. CAP.	DOL.	\$117.92	8.0%		
TOTAL VARIABLE COSTS:			=	\$272.07	
. INCOME ABOVE VARIABLE COSTS:				\$132.18	
. INCOME ABOVE VARIABLE COSTS.				φ132.16 <u></u>	
. FIXED COSTS					
TRACTOR/MACHINERY	ACRE	1.00	\$58.27	\$58.27	
TOTAL FIXED COSTS:				\$58.27	
			=	\$58.27	
OTHER COSTS	DOI	<b>*</b> 070.07	7.00		
	DOL.	\$272.07	7.0%		
OTHER COSTS	DOL.	\$272.07	7.0% =	\$19.04	
OTHER COSTS  GENERAL OVERHEAD  TOTAL OTHER COSTS:	DOL.	\$272.07	7.0% =	\$19.04	
OTHER COSTS  GENERAL OVERHEAD  TOTAL OTHER COSTS:	DOL.	\$272.07	7.0% =	\$19.04	
OTHER COSTS  GENERAL OVERHEAD  TOTAL OTHER COSTS:  TOTAL COSTS:		\$272.07	7.0% =	\$19.04	
OTHER COSTS  GENERAL OVERHEAD  TOTAL OTHER COSTS:  TOTAL COSTS:		\$272.07	7.0%	\$19.04 \$19.04 \$349.38	
GENERAL OVERHEAD			7.0% =	\$19.04	
GENERAL OVERHEAD  TOTAL OTHER COSTS:  TOTAL COSTS:  NET RETURNS TO LAND, RISK, AND MANA			_	\$19.04	

<sup>-</sup>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

<sup>-</sup> FERTILIZER AMOUNTS ARE BASED ON HISTORICAL DATA OF REMOVAL RATES FOR N, P2O5, K20 AND YEILD. GROWERS SHOULD SOIL SAMPLE TO DETERMINE RATES OF APPLICATION FOR NUTRIENTS IN WHEAT



WHEAT F	OR GRAIN						
PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR WHEAT							
MONTH	OPERATION	TIMES	LABOR	MACHINE	VARIABLE	FIXED	
		OVER	HOURS	HOURS	COSTS	COSTS	
11	TANDOM LIGHT DISK 20'	1.00	0.14	0.12	\$3.80	\$5.02	
6	BROADCAST SEEDER	1.00	0.12	0.10	\$1.52	\$1.77	
6	TRACTOR MTD SPRAYER 60 FT	2.00	0.10	0.08	\$3.08	\$7.72	
6	COMBINE W/ HEADER 20'	1.00	0.22	0.18	\$45.65	\$43.76	
PER AC	RE TOTALS FOR						
SELECT	ED OPERATIONS		0.58	0.48	\$54.05	\$58.27	
UNALLC	OCATED LABOR(HRS./AC.)		0.73				

INCOME ABOVE VARIABLE COSTS AT DIFFERING YIELDS AND PRICES								
YIELD		PRICE (\$/bu.)						
BU.	\$6.62	\$6.98	\$7.35	\$7.72	\$8.09			
50	\$59.68	\$77.68	\$96.18	\$114.68	\$133.18			
52	\$72.62	\$91.34	\$110.58	\$129.82	\$149.06			
55	\$92.03	\$111.83	\$132.18	\$152.53	\$172.88			
58	\$111.44	\$132.32	\$153.78	\$175.24	\$196.70			
61	\$130.85	\$152.81	\$175.38	\$197.95	\$220.52			

<sup>\*</sup>THE YEILD 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 YEILD HISTORY.

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

<sup>\*\*</sup>HERBICIDE COST ASSUME NO RESISTANCE MANAGEMENT, GROWERS SHOULD ONLY APPLY PESTICIDES AS NEEDED

<sup>\*\*\*</sup>FEED WHEAT PRICES IN THIS BUDGET ARE BASED ON FUTURES PRICES + .80 BASIS FOR LOCAL CONTRACTS AS OF 12-15-2022, PRICE AND BASIS FOR FEED WHEAT IN NORTH CAROINA IS RELATIVE TO THE PRICE OF CORN

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