Department of Agricultural and Resource Economics

2025 COW-CALF BUDGET

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The cow-calf budget was developed to assist Tennessee cattle producers in estimating the cost of production and net return to land and management. This budget should be considered a template or guide to estimating expenses and revenues, and it should not be considered representative of all circumstances. Users of this budget are encouraged to enter information into the budget that reflects their individual situation and production practices. Using information most closely related to a particular operation will improve the decision-making process.

Disclaimer: Significant variability in inputs, prices and production practices exist across operations and from region to region. The information contained in this spreadsheet relies on estimates and assumptions specific to Tennessee. This budget should not be construed as a reflection of all circumstances across the state, as regional variability does exist. To improve the value of this tool, users are encouraged to use inputs, prices, production practices and management that are employed on their specific operation.



Estimated Returns and Exp	penses fo	r Beef Cow-	Calf Operatio	n in Tenne	essee
Item	Unit	Quantity	Price	\$/Cow	\$/Herd
Revenue					
Cull Cows	lb		\$	\$	\$
Heifer Calves	lb		\$	\$	\$
Steer Calves	lb		\$	\$	_ \$
			Total Revenue	\$	_ \$
Variable Expenses					
Pasture Production	acre		\$	\$	\$
Hay Production	acre		\$	\$	\$
Purchased Hay per Cow	ton		\$	\$	_ \$
Bull (Pasture & Hay)	\$		\$	\$	\$
Supplemental Feed	head		\$	\$	\$
Salt & Mineral	lb		\$	\$	\$
Vet & Med	head		\$	\$	\$
Reproduction (Artificial Insemination)	head		\$	\$	\$
Other Expenses	head		\$	\$	\$
Labor	hours		\$	\$	_ \$
		Produ	uction Expenses	\$	\$
Interest	\$	\$	%	\$	\$
Marketing	head		\$	\$	\$
Land Rent	acre		\$	\$	\$
To		Total Va	riable Expenses	\$	\$
	\$	\$			
Fixed Expenses					
Livestock Facilities & Equipment	head		\$		\$
Pasture & Hay Machinery/Equipment	head		\$	\$	_ \$
Purchased Breeding Stock	head		\$	\$	_ \$
Purchased Heifers, (not bred)	head		\$	\$	_ \$
Miscellaneous Overhead	head		\$	\$	\$
		Total	Fixed Expenses	\$	\$
	Total Expenses	\$	\$		
	\$				

Estimated Returns and Expenses for Beef Cow-Calf Operation in Tennessee											
Item	Unit	Quantity		Price		\$/Cow		\$/Herd	Your Farm		
Revenue 1											
Cull Cows	lb	1200	\$	1.40	\$	268.80	\$	13,440.00			
Heifer Calves	lb	520	\$	2.40	\$	324.48	\$	16,224.00			
Steer Calves	lb	550	\$	2.65	\$	641.30	\$	32,065.00			
	Total Revenue \$ 1,234							61,729.00			
Variable Expenses											
Pasture Production	acre	2.00	\$	145.57	\$	291.14	\$	14,557.00			
Hay Production	acre	0.90	\$	224.57	\$	202.11	\$	10,105.65			
Purchased Hay per Cow	ton	0.00	\$	100.00	\$	-	\$	-			
Bull (Pasture & Hay) ²	\$	1.7	\$	493.25	\$	33.54	\$	1,677.06			
Supplemental Feed	head	1	\$	26.78	\$	26.78	\$	1,338.75			
Salt & Mineral	lb	91	\$	0.46	\$	41.98	\$	2,098.75			
Vet & Med	head	1	\$	33.09	\$	33.09	\$	1,654.60			
Reproduction (Artificial Insemination) ³	head	0	\$	69.25	\$	-	\$	-			
Other Expenses	head	1	\$	1.50	\$	1.50	\$	75.00			
Labor	hours	8	\$	15.00	\$	120.00	\$	6,000.00			
	Production Expenses \$ 750.14 \$ 37,506.81										
Interest	\$	\$ 750.14		7%	\$	26.25	\$	1,312.74			
Marketing	head	0.86	\$	46.48	\$	39.97	\$	1,998.55			
Land Rent	acre	0.00		-	\$	-	\$	-			
		Total Variable Expenses				816.36	\$	40,818.10			
	Returns to Variable Expenses				\$	418.22	\$	20,910.90			
Fixed Expenses											
Livestock Facilities & Equipment	head	1	\$	71.09	\$	71.09	\$	3,554.66			
Pasture & Hay Machinery/Equipment	head	1	\$	223.16	\$	223.16	\$	11,158.13			
Purchased Breeding Stock ⁴	head	1	\$	29.91	\$	29.91	\$	1,495.50			
Purchased Heifers, (not bred)	head	0.00	\$ 3	3,000.00	\$	-	\$	-			
Miscellaneous Overhead ⁵	head	1	\$	235.29	\$	23.53	\$	1,176.45			
		Total Fixe	ed I	Expenses	\$	347.69	\$	17,384.73			
	Total Expenses				\$:	1.164.06	\$	58,202.83			
	Net Return to Land and Management					70.52	\$	3,526.17			

Footnotes:

The same method is used to calculate heifer and steer calf revenue on a \$/cow basis.

¹Cull cow revenue (\$/cow) = (weight X price X number of cows sold) / total number of cows \$268.80 = (1200 lbs X \$1.40/lb X 8 cows sold) / 50 cows

²Accounts for bull pasture and hay costs on a yearly basis. Assumes costs are 1.7 times higher than a cow.

³If artificial insemination is utilized, then users of this budget are encouraged to evaluate the number of breeding bulls.

⁴Accounts for annual depreciation and interest on purchased breeding stock (cows and bulls).

⁵Miscellaneous overhead is assumed to be 10% of total overhead costs to account for unforeseen costs associated with overhead.

Cow-Calf Budget Assumptions

Herd Data:

- 50 cow herd with two breeding herd bulls
- 90 percent calf crop with 2 percent death loss for calves (22 steers & 13 heifers sold)
- 16 percent cull cow rate with 2 percent death loss for cows (eight cows sold)
- 100 percent of replacement heifers are retained from the herd

Supplemental Feed:

- Replacement heifers: 3 lbs/day commercial feed for 150 days (450 pounds)
- Herd bulls: 5 lbs/day commercial feed for 60 days (300 pounds)
- Calves: 2 lbs/day commercial feed for 30 days (60 pounds)

Pasture/Hay:

- Pasture
 - Nitrogen: 60 lbs/ac at \$0.60/lb
 - P₂O₅: 30 lbs/ac at \$0.57/lb
 - K₂O: 30 lbs/ac at \$0.38/lb
 - One application of broadleaf herbicide
 - Stocking rate: 2 ac/cow-calf pair
- Hay
 - Nitrogen: 100 lbs/ac at \$0.60/lb
 - P₂O₅: 30 lbs/ac at \$0.57/lb
 - K₂O: 30 lbs/ac at \$0.38/lb
 - One application of broadleaf herbicide
 - Hay yield: 2.5 tons/ac
 - Feeding: 30 lbs/day of hay for 150 days (2.25 tons/yr)

Veterinary/Medicine:

- Cows: respiratory vaccine (1), clostridial bacterin (1), deworm (1), fly tags (2)
- Replacement heifers: respiratory vaccine (2), clostridial bacterin (2), deworm (1), fly tags (1)
- Herd bulls: respiratory vaccine (1), clostridial bacterin (1), deworm (1), fly tags (2), breeding soundness exam
- Calves: respiratory vaccine (2), clostridial bacterin (2), deworm (1), fly tags (1), implant (1)

Marketing:

- Commission: 2.5 percent on total sale
- Insurance: 0.25 percent on total sale
- Hauling: \$3/loaded mile for 30 miles

Buildings/Equipment:

- Buildings: 1,500-ft² hay barn, 800-ft² equipment shed, corral, chute, head gate, fencing
- Equipment: 60-hp tractor, disc mower, hay rake, hay baler, hay wagon, rotary mower, tractor-mounted sprayer, truck



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