Department of Agricultural and Resource Economics

2021 STOCKER/BACKGROUNDING BUDGET

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The stocker/backgrounding 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 Expenses for Stocker/Backgrounding Operation in Tennessee												
Item	Unit	Quantity	Price	\$/Head	\$/Group Total	Your Farm						
Revenue												
Feeder Cattle	lb		\$	\$	\$							
			Total Revenue	\$	\$							
Variable Expenses												
Calf Purchase	lb		\$		\$							
Pasture Production	acre		\$	\$								
Hay Production	acre		\$	\$	\$							
Purchased Hay	ton		\$	\$	\$							
Supplemental Feed	lb		\$	\$	\$							
Salt and Mineral	lb		\$	\$	\$							
Vet & Med	head		\$	\$	\$							
Other Expenses	head		\$	\$	\$							
Labor	hours		\$	\$	\$							
		Produ	iction Expenses	\$								
			-									
Interest on Calf Purchase	\$	\$	_ %	\$	¢							
Interest on Other Variable Expenses	\$ \$	\$	% %	\$	\$ \$							
Marketing	head	Ψ	\$			-						
Land Rent	acre		\$	\$								
- 0.1.0	Total Variable Expenses											
	\$											
Fixed Expenses			·	-								
Livestock Facilities & Equipment	head		\$	\$	\$							
Pasture and Hay Machinery/Equipment	head		\$	\$	\$							
Miscellaneous Overhead	head		\$	\$	\$							
Total Fixed Expense				\$	\$							
			-									
	Total Expenses	\$	\$									
N	et Retur		d Management									

Estimated Returns and Exp	penses for	Stocker/Bac	kgroundi	ng	Operation	ı in	Tennessee	
Item	Unit	Quantity	Price		\$/Head	\$/	Group Total	Your Farr
venue								
Feeder Cattle ¹	lb	800 \$	1.40	\$	1,064.20	\$	65,980.50	
		Tota	l Revenue	\$	1,064.20	\$	65,980.50	
riable Expenses								
Calf Purchase	lb	504 \$	1.50	\$	756.98	\$	46,933.00	
Pasture Production	acre	0.67 \$	116.28	\$	77.52	\$	4,806.32	
Hay Production	acre	0.30 \$	175.12	\$	52.54	\$	3,257.27	
Purchased Hay	ton	\$	80.00	\$	-	\$	-	
Supplemental Feed	lb	601.35 \$	0.11	\$	64.65	\$	4,008.03	
Salt & Mineral	lb	30 \$	0.35	\$	10.50	\$	651.00	
Vet & Med	head	1 \$	15.50	\$	15.50	\$	961.00	
Other Expenses	head	1 \$	1.00	\$	1.00	\$	62.00	
Labor	hours	4 \$	10.00	\$	40.00	\$	2,480.00	
	Production Expenses				1,018.69	\$	63,158.62	-
Interest on Calf Purchase	\$	\$ 756.98	6%	\$	18.71	\$	1,159.87	
Interest on Other Variable Expenses	\$	\$ 261.70	6%	\$	6.47	\$	400.99	
Marketing	head	1 \$	24.66	\$	23.43	\$	1,452.50	
Land Rent	acre	0.00 \$	-	\$	-	\$	-	
	Total Variable Expenses				1,067.29	\$	66,171.98	
	Returns to Variable Expenses				(3.09)	\$	(191.48)	
ed Expenses								
Livestock Facilities & Equipment	head	1 \$	11.67	\$	11.67	\$	723.75	
Pasture & Hay Machinery/Equipment	head	1 \$	48.33	\$	48.33	\$	2,996.33	
Miscellaneous Overhead ¹	head	1 \$	47.65	\$	4.77	\$	295.44	
		Total Fixed			64.77	\$	4,015.51	
	Total Expenses				1,132.06	\$	70,187.49	
	Net	Net Return to Management				\$	(4,206.99)	

Footnotes:

¹Feeder cattle revenue and marketing accounts for death loss. Revenue = 800 lb x \$1.40/lb x (1 - death loss %). Marketing cost is calculated the same way.

²Miscellaneous overhead is assumed to be 10 percent of total overhead costs to account for unforeseen costs associated with overhead.

Stocker/Backgrounding Budget Assumptions

Group Data (assumptions are averages over groups of cattle purchased in different weeks but marketed at the same time):

- Ownership: 150 days

Gain: 2 lbs/day

- 5 percent death loss

Supplemental Feed (assumptions are averages over groups of cattle purchased in different weeks but marketed at the same time):

- 4 lbs/day commercial feed for 150 days (600 pounds)
- Pasture/Hay:
- Pasture

• Nitrogen: 60 lbs/ac at \$0.40/lb

P₂O₅: 30 lbs/ac at \$0.30/lb

• K₂O: 30 lbs/ac at \$0.35/lb

One application of broadleaf herbicide

• Stocking rate: 1.5 hd/ac

- Hay

• Nitrogen: 100 lbs/ac at \$0.40/lb

P₂O₅: 30 lbs/ac at \$0.30/lb

K₂O: 30 lbs/ac at \$0.35/lb

• One application of broadleaf herbicide

Hay yield: 2.5 tons/ac

Veterinary/Medicine:

- Respiratory vaccine (2), clostridial bacterin (2), deworm (1), fly tags (1), implant (1) Marketing:

- Commission: \$16.00/head

Insurance: 0.25 percent on total saleHauling: \$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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