Department of Agricultural and Resource Economics

2020 STOCKER/BACKGROUNDING BUDGET

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Andrew P. Griffith, Associate Professor Email: agriff14@utk.edu

Becky Bowling, UT Extension Specialist Email: bowling10@utk.edu

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		ċ	\$	ċ							
Pasture Production			- ²	ş	\$							
	acre		- \$	\$	\$							
Hay Production	acre		- \$	\$	\$							
Purchased Hay	ton		- \$	\$	\$							
Supplemental Feed	lb 		- \$	\$	\$							
Salt and Mineral	lb .		- \$	\$	\$							
Vet & Med	head		- \$	\$	\$							
Death Loss	%	\$	_ %	\$	\$							
Other Expenses	head		- \$	\$	\$							
Labor	hours		\$	\$	\$							
		Produ	uction Expenses	\$	\$							
Interest on Calf Purchase	\$ \$	\$	%	\$	\$							
Interest on Other Variable Expenses	\$	\$	%	\$	\$							
Marketing	head		\$	\$	\$							
Land Rent	acre		\$	\$	\$							
		Total Va	riable Expenses									
	Returns to Variable Expenses											
Fixed Expenses			•									
Livestock Facilities & Equipment	head		\$	\$	\$							
Pasture and Hay Machinery/Equipment	head			\$								
Miscellaneous Overhead ¹	head		\$	\$	\$							
		Total	Fixed Expenses	\$	\$							
			Tatal Famous	<u> </u>	A							
***	Total Expenses											
Ne	t Keturi	n to Land an	d Management	\$	>							

Estimated Returns and Expe	nses for	Stocker/Ba	ack	groundir	ng (Operation	in '	Tennessee	
Item	Unit	Quantity		Price		\$/Head	\$/	/Group Total	Your Farm
Revenue									
Feeder Cattle	lb	800	\$	1.40	\$	1,120.21	\$	67,369.57	
		To	otal	Revenue	\$	1,120.21	\$	67,369.57	
Variable Expenses									
Calf Purchase	lb	504	\$	1.52	\$	766.90	\$	47,548.00	
Pasture Production	acre	0.67	\$	119.28	\$	79.52	\$	4,930.32	
Hay Production	acre	0.30	\$	179.32	\$	53.80	\$	3,335.39	
Purchased Hay	ton		\$	80.00	\$	-	\$	-	
Supplemental Feed	lb	601	\$	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	
Death Loss	%	\$ 766.90		3%	\$	23.01	\$		
Other Expenses	head	1	\$	1.00	\$	1.00	\$	62.00	
Labor	hours	4	\$	10.00	\$	40.00	\$	2,480.00	
	Production Expenses				\$	1,054.87	\$	63,975.74	
Interest on Calf Purchase	\$	\$ 766.90		6%	\$	18.95	\$	1,175.06	
Interest on Other Variable Expenses	\$	\$ 287.97		6%	\$	7.12	\$	441.23	
Marketing	head	1	\$	24.80	\$	24.80	\$	1,537.63	
Land Rent	acre	0.00	\$	-	\$	_	\$	-	
		Total Varia	ble	Expenses	\$	1,105.74	\$	67,129.67	
	Returns to Variable Expenses					14.47	\$	239.89	
Fixed 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 Expenses				64.77		4,015.51	
		Total Expenses			\$	1,170.51	\$	71,145.18	
	Ne	et Return to I	nagement	\$	(50.30)	\$	(3,775.62)		

Footnotes:

¹Miscellaneous overhead is assumed to be 10% 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

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 \$0.43/lb
P₂O₅: 30 lbs/ac at \$0.37/lb
K₂O: 30 lbs/ac at \$0.32/lb

One application of broadleaf herbicide

• Stocking rate: 1.5 hd/ac

- Hay

Nitrogen: 100 lbs/ac at \$0.43/lb
P₂O₅: 30 lbs/ac at \$0.37/lb

K₂O: 30 lbs/ac at \$0.32/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/headInsurance: 0.25% 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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