

Beef Backgrounding Planning Budget

Use the "Your estimate" column to plan your operation's costs and returns for 2022.

	Winter backgrounding	Pasture backgrounding	Your
	per steer ¹	per steer ¹	estimate
Income			
Market steer sales	1,305.47	1,255.50	
Less death loss (1 percent)	13.05	12.56	
Total income	1,292.41	1,242.95	
Operating costs	0		
Purchased steer	996.45	1,054.21	
Pasture (rental rate)	0.00	38.22	
Feed, mineral and stored forage	145.72	68.93	
Labor	43.75	26.25	
Veterinary, drugs and supplies	18.00	15.00	
Marketing and hauling	32.64	31.39	
Machinery and utilities	58.36	26.34	
Livestock facility repair	3.75	0.75	
Professional fees (legal, accounting, etc.)	1.00	1.00	
Miscellaneous	3.50	3.50	
Operating interest	16.01	16.15	
Total operating costs	1,319.17	1,281.74	
Ownership costs			
Depreciation on livestock facilities	3.87	0.62	
Interest on livestock facilities	2.74	0.44	
Insurance and taxes on capital items	4.03	3.07	
Total ownership costs	10.64	4.12	+0
Total costs	1,329.81	1,285.86	
Income over operating costs	-26.76	-38.80	4
Income over total costs	-37.40	-42.92	
Pounds of gain per steer purchased	216.85	177.25	
Feed cost per pound gain	0.67	0.60	
Breakeven steer price per pound	1.65	1.68	

Table 1. Missouri beef steer backgrounding planning budget for 2022.

¹ Totals may not sum due to rounding.

Written by Wesley Tucker, Field Specialist, Agricultural Business; Eldon Cole, Field Specialist, Livestock; Joe Horner, State Specialist, Agricultural Business

Table 2. Input assumptions used in beef steer winter backgrounding planning budget for 2022.

Selected input quantities	Per unit	Selected input prices	Dollars per unit	
Steer purchase weight, pounds	590	Steer purchase price, per hundredweight	168.89	
Market steer sale weight, pounds	815	Market steer sale price, per hundredweight	160.18	
Labor, hours per head	2.5	Labor cost, per hour	17.50	
Feeding period, days	105			
Average daily gain, pounds	2.14			

Table 3. Input assumptions used in beef steer pasture backgrounding planning budget for 2022.

Selected input quantities	input quantities Per unit Selected input prices		Dollars per unit	
Steer purchase weight, pounds	590	Steer purchase price, per hundredweight	178.68	
Market steer sale weight, pounds	775	Market steer sale price, per hundredweight	162.00	
Labor, hours per head	1.5	Labor cost, per hour	17.50	
Feeding period, days	105			
Average daily gain, pounds	1.76			

Table 4. Feed and stored forage in beef steer backgrounding planning budgets for 2022, on a per steer basis.

Feed description		Winter backgrounding ¹		Pasture backgrounding ²	
	Cost per unit	Pounds	Dollars	Pounds	Dollars
Mixed hay, per ton	85.00	1,221	51.89		
Corn, per bushel	5.25	754	70.69		
Protein supplement, per ton	220.00	107	11.77	525	57.75
Salt and minerals, per ton	800.00	27	10.80	27	10.80
Limestone, per hundredweight	9.50	6	0.57	4	0.38
	Fotal	2,115	145.72	556	68.93

¹ Winter backgrounding ration assumes 105 days on feed and 2.14 pound average daily gain for a steer.

² Pasture backgrounding ration assumes 105 days on feed and 1.76 pound average daily gain for a steer

Table 5. Machinery assumptions used in beef steer backgrounding planning budgets for 2022.

	Winter backgrounding ¹		Pasture backgrounding ²	
Cost per hour	Hours	Dollars	Hours	Dollars
44.88	25	1,122.00		
30.00	20	600.00	10.0	300.00
28.00	8	224.00	8.0	224.00
10.00	40	400.00	52.5	525.00
Total		2,346.00		1,049.00
steer		55.86		23.84
ng budget are based on 44 steers.				
	44.88 30.00 28.00 10.00	44.88 25 30.00 20 28.00 8 10.00 40 Total Steer g budget are based on 42 steers. ng budget are based on 44 steers.	44.88 25 1,122.00 30.00 20 600.00 28.00 8 224.00 10.00 40 400.00 Total 2,346.00 steer 55.86 g budget are based on 42 steers. 55.86	44.88 25 1,122.00 30.00 20 600.00 10.0 28.00 8 224.00 8.0 10.00 40 400.00 52.5 Total 2,346.00 55.86 g budget are based on 42 steers. 55.86

Farmers can also customize this budget to fit their own operations by using the Missouri Beef Enterprise Tool (https://extension.missouri.edu/media/wysiwyg/Extensiondata/Pro/Beef/Docs/MissouriBeefEnterprise.xlsx). Download the spreadsheet tool to keep an electronic copy of your cost and return estimates in Missouri.



Issued in furtherance of the Cooperative Extension Work Acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture. Director, Cooperative Extension, University of Missouri, Columbia, MO 65211 • MU Extension provides equal opportunity to all participants in extension programs and activities and for all employees and applicants for employment on the basis of their demonstrated ability and competence without discrimination on the basis of race, color, national origin, ancestry, religion, sex, sexual orientation, gender identity, gender expression, age, genetic information, disability or protected veteran status. • 573-882-7216 • extension.missouri.edu