

Beef Backgrounding Planning Budget

Use the "Your estimate" column to plan your operation's costs and returns for 2024.

	Winter backgrounding	Pasture backgrounding	Your
-	per steer ¹	per steer ¹	estimate
Income			
Market steer sales	2,198.63	2,187.98	
Less death loss (1 percent)	-21.99	-21.88	
Total income	2,176.64	2,166.10	
Operating costs			
Purchased steer	1,663.56	1,784.99	
Pasture (rental rate)	0.00	43.00	
Feed, mineral and stored forage	175.88	88.78	
Labor	44.25	26.55	
Veterinary, drugs and supplies	20.00	17.00	
Marketing and hauling	54.97	54.70	
Machinery and utilities	71.14	31.86	
Livestock facility repair	4.00	1.00	
Professional fees (legal, accounting, etc.)	1.00	1.00	
Miscellaneous	4.00	4.00	
Operating interest	47.29	49.04	
Total operating costs	2,086.09	2,101.91	
Ownership costs			
Depreciation on livestock facilities	3.87	0.62	
Interest on livestock facilities	4.76	0.76	
Insurance and taxes on capital items	5.98	5.15	
Total ownership costs	14.61	6.52	
Total costs	2,100.70	2,108.44	
Income over operating costs	90.55	64.19	
Income over total costs	75.94	57.66	
Pounds of gain per steer purchased	216.85	177.25	
Feed cost per pound gain	0.81	0.74	
Breakeven steer price per pound	2.60	2.75	

Table 1. Missouri beef steer backgrounding planning budget for 2024.

¹ Totals may not sum due to rounding.

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Table 2. Input assumptions used in beef steer winter backgrounding planning budget for 2024.

Selected input quantities	Per unit	Selected input prices	Dollars per unit	
Steer purchase weight, pounds	590	Steer purchase price, per hundredweight	281.96	
Market steer sale weight, pounds	815	Market steer sale price, per hundredweight	269.77	
Labor, hours per head	2.5	Labor cost, per hour	17.70	
Feeding period, days	105			
Average daily gain, pounds	2.14			

Table 3. Input assumptions used in beef steer pasture backgrounding planning budget for 2024.

Selected input quantities	Per unit	Selected input prices	Dollars per unit	
Steer purchase weight, pounds	590	Steer purchase price, per hundredweight	302.54	
Market steer sale weight, pounds	775	Market steer sale price, per hundredweight	282.32	
Labor, hours per head	1.5	Labor cost, per hour	17.70	
Feeding period, days	105			
Average daily gain, pounds	1.76			

Table 4. Feed and stored forage in beef steer backgrounding planning budgets for 2024, on a per steer basis.

	Cost per unit	Winter backgrounding ¹		Pasture backgrounding ²	
Feed description		Pounds	Dollars	Pounds	Dollars
Mixed hay, per ton	165.00	1,053	86.87		
Corn, per bushel	5.00	450	40.18		
Protein supplement, per ton	275.00	270	37.13	525	72.19
Salt and minerals, per ton	1,200.00	18	10.80	27	16.38
Limestone, per hundredweight	10.00	9	0.90	2	0.21
Te	otal	1,800	175.88	554	88.78

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 2024.

		Winter backgrounding ¹		Pasture backgrounding ²	
Description	Cost per hour	Hours	Dollars	Hours	Dollars
Tractor; 105 MFWD	53.67	25	1,341.75		
Truck	40.00	20	800.00	10.0	400.00
Livestock trailer	30.00	8	240.00	8.0	240.00
4-wheeler	12.00	40	480.00	52.5	630.00
	Total		2,861.75		1,270.00
Total	per steer		68.14		28.86

¹ Machinery needs for winter backgrounding budget are based on 42 steers.

² Machinery needs for pasture backgrounding budget are based on 44 steers.

Abbreviations: MFWD = mechanical front-wheel drive tractor

Farmers can also customize this budget to fit their own operations by using the <u>Missouri Beef Enterprise Tool</u> (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.



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