

BCM 41 Enterprise Budgets for Spring Calving Beef Cows

Spring Calving Beef Cow Herd

Assumptions: 100 cows, 4 bulls, 12 replacement heifers, 95% calf crop, steers wean at 550 lbs., heifers wean at 500 lbs., 4% calf death loss, 1% cow death loss, cows weigh 1,100 lbs., bulls weigh 2,200 lbs. and used 4 years, cow cull rate of 10% (culled at 10 years). Budget adjusted to fit herd size.

A spring calving beef cow herd for 100 beef cows.

Your spring calving cow herd for:

50 cows.

Economic Planning Budget (cash-flow)

	No.	Unit	Weight	Price	Total
Receipts					
Steers calves	45	hd.	550	\$92.00	\$22,770.00
Heifers calves	34	hd.	500	\$84.00	\$14,280.00
Cull yearling heifers	2	hd.	900	\$68.00	\$1,224.00
Cull cows	9	hd.	1,100	\$38.00	\$3,762.00
Cull bulls	0.75	hd.	2,200	\$45.00	\$742.50
<u>Total receipts</u>	<u>90.75</u>	<u>hd.</u>			<u>\$42,778.50</u>

Cash-flow budget

	No.	Unit	Weight	Price	Total
Receipts					
	22	hd.	550	\$92.00	\$11,132.00
	17	hd.	500	\$84.00	\$7,140.00
	1	hd.	900	\$68.00	\$612.00
	4	hd.	1,100	\$38.00	\$1,672.00
	0.25	hd.	2,200	\$45.00	\$247.50
	44.25				\$20,803.50

Variable costs

Cattle costs

	Amount	Unit	Price	Unit	Dollars
Heifers	0	head	\$450.00	\$/hd.	\$0.00
Cows	0	head	\$600.00	\$/hd.	\$0.00
Bulls	0.75	head	\$1,800	\$/hd.	\$1,350.00
<u>Purchase costs</u>	<u>0.75</u>	<u>head</u>	<u>\$75.00</u>	<u>\$/hd.</u>	<u>\$56.25</u>
Total arrival cost					\$1,406.25

Variable costs

Cattle costs

	Amount	Unit	Price	Unit	Dollars
	0	hd.	\$450.00	\$/hd.	\$0.00
	0	hd.	\$600.00	\$/hd.	\$0.00
	0.25	hd.	\$1,800	\$/hd.	\$450.00
	<u>0.25</u>	<u>hd.</u>	<u>\$75.00</u>	<u>\$/hd.</u>	<u>\$18.75</u>
					\$468.75

Feed costs

milk replacer	0	lbs.	\$68.66	\$/cwt.	\$0.00
calf creep feed	0	lbs.	\$3.00	\$/cwt.	\$0.00
hay	225	tons	\$60.00	\$/ton	\$13,500.00
haylage	0	tons	\$35.30	\$/ton	\$0.00
corn silage	0	tons	\$18.00	\$/ton	\$0.00
corn stalks / straw	0	tons	\$0.00	\$/ton	\$0.00
crop aftermath	100	acres	\$5.00	\$/acre	\$500.00
pasture	250	acres	\$40.00	\$/acre	\$10,000.00
grain (corn)	300	bu.	\$2.50	\$/bu.	\$750.00
grain (oats)	0	bu.	\$1.45	\$/bu.	\$0.00
protein supplement	1,300	lbs.	\$300.00	\$/ton	\$195.00
minerals/vitamins	5,000	lbs.	\$18.00	\$/cwt.	\$900.00
t.m. salt	5,000	lbs.	\$12.00	\$/cwt.	\$600.00
<u>milling & mixing</u>	<u>10,000</u>	<u>lbs.</u>	<u>\$0.50</u>	<u>\$/cwt.</u>	<u>\$50.00</u>
Total feed costs					\$26,445.00

Feed costs

	0	lbs.	\$68.66	\$/cwt.	\$0.00
	0	lbs.	\$3.00	\$/cwt.	\$0.00
	113	tons	\$60.00	\$/ton	\$6,780.00
	0	tons	\$35.30	\$/ton	\$0.00
	0	tons	\$18.00	\$/ton	\$0.00
	0	tons	\$0.00	\$/ton	\$0.00
	50	acres	\$5.00	\$/acre	\$250.00
	125	acres	\$40.00	\$/acre	\$5,000.00
	150	bu.	\$2.50	\$/bu.	\$375.00
	0	bu.	\$1.45	\$/bu.	\$0.00
	650	lbs.	\$300.00	\$/ton	\$97.50
	2,500	lbs.	\$18.00	\$/cwt.	\$450.00
	2,500	lbs.	\$12.00	\$/cwt.	\$300.00
	<u>100</u>	<u>lbs.</u>	<u>\$0.50</u>	<u>\$/cwt.</u>	<u>\$50.00</u>
					\$13,253.00

Livestock costs

death loss, calves	4 %		\$88.00
death loss, cows	1 %		\$22.00
Interest cost, cattle	0 \$	10.50 %APR	\$0.00
bedding	10,000 lbs.	\$40.00 \$/ton	\$200.00
veterinary		\$3.00 \$/hd.	\$300.00
medicines-vaccines		\$12.00 \$/hd.	\$1,200.00
supplies		\$7.00 \$/hd.	\$700.00
power, fuel & utilities		\$6.00 \$/hd.	\$600.00
marketing costs	90.75	\$35.00 \$/hd.	\$3,176.25
<u>misc.</u>	<u>0</u>	<u>\$0.00 \$/hd.</u>	<u>\$0.00</u>
Total livestock costs			\$6,286.25

Livestock costs

4 %		\$47.00
1 %		\$11.75
0 \$	10.5 %APR	\$0.00
6000 lbs.	\$40.00 \$/ton	\$120.00
	\$3.00 \$/hd.	\$150.00
	\$13.00 \$/hd.	\$650.00
	\$7.50 \$/hd.	\$375.00
	\$6.00 \$/hd.	\$300.00
45.25	\$35.00 \$/hd.	\$1,583.75
	<u>\$0.00 \$/hd.</u>	<u>\$0.00</u>
		\$3,237.50

Fixed costs

Building investment	\$20,000		
annual costs(R,T,I)	5.00 %	\$1,000.00	
Equipment investment	\$20,000		
annual costs (R,T,I)	10.00 %	\$2,000.00	
Livestock investment	\$67,200		
<u>annual costs(I)</u>	<u>0.50 %</u>	<u>\$336.00</u>	
Total fixed costs		\$3,336.00	

Fixed costs

Building inv.	\$12,000		
annual costs	5 %	\$600	
Equipment inv.	\$12,500		
annual costs	10 %	\$1,250	
Livestock inv.	\$33,600		
<u>annual costs</u>	<u>0.5 %</u>	<u>\$168</u>	
		\$2,018	

Returns on Resources

For Herd of 100 Cows

For your cow herd of :

50

Est. Receipts	\$42,778.50	\$20,803.50
<u>Variable costs</u>	<u>\$34,137.50</u>	<u>\$16,959.25</u>
Returns to labor, management & capital	\$8,641.00	\$3,844.25
<u>Fixed costs</u>	<u>\$3,336.00</u>	<u>\$2,018</u>
Returns to labor & management	\$5,305.00	\$1,826.25
Returns to labor, management & capital / cow	\$86.41	\$76.89
Calf Breakeven costs / cwt.	\$70.98	\$73.01
Est. hours of labor / cow	10.25	12.00

Capitla Investment

Building investment	\$20,000	12,000		
annual costs(D,I,R,T,I)	12.00 %	\$2,400.00	14 %	\$1,680.00
Equipment investment	\$25,000	12,500		
annual costs (D,I,R,T,I)	15.00 %	\$3,750.00	15 %	\$1,875.00
Livestock investment	\$67,200	33,600		
<u>annual costs(D,I,I)</u>	<u>12.00 %</u>	<u>\$8,064.00</u>	<u>12 %</u>	<u>\$4,032.00</u>
Total capital costs		\$14,214.00		\$7,587.00