



## 2008 Cow - Calf Budget

### Spring Calving - Sell 205 Days, 550 lbs

Authors: Steve Boyles, Extension Beef Specialist  
 David Dugan, Extension Educator. ANR, Brown, County  
 Jeff Fisher, Pike County  
 John Grimes, Highland County  
 Stan Smith, Extension P.A., Fairfield County  
 Barry Ward, Leader, Production Business Management  
 Brian Freytag, OSU Extension Intern, Undergrad. Student

8/7/2008

ITEM	EXPLANATION	Your Prod Numbers	PRICE PER UNIT	Amount	YOUR BUDGET				
<b>RECEIPTS <sup>1</sup></b>									
Feeder Calf	Avg. Weight/ Calves Sold	550 lbs	% Calf Crop Weaned	81%	\$1.20 / lb	\$534.60	\$534.60		
Cull Cows	Cull Value	\$500.00	% Cull Rate	20%	% Death Loss	3%	Cows/Bull	\$85.00	85.00
Cull Bulls	800	25%	3%	25	7	7	7		
<b>TOTAL RECEIPTS</b>				\$626.64	626.64				
<b>VARIABLE COSTS</b>									
Feed <sup>2</sup>									
Days on Pasture		245							
Cows on Pasture (including opens)		100 cows							
Acres per Cow		1.5 acres							
Pasture (Hay Equivalent)		150 acres	Pasture Acres	Pasture Value (per acre)		82.50	82.50		
Hay		28 lbs		\$55.00 /acre		168.00	168.00		
Corn Silage		0 lb		\$100.00 /ton		-	-		
Days on Feed Concentrate		90 days		\$50.00 /ton					
Feed Concentrate <sup>2a</sup>		2.5 lbs		\$290.00 /ton		32.63	32.63		
Mineral		0.2 lbs		\$0.12 /lb		8.40	8.40		
<b>TOTAL FEED COSTS</b>						291.52	291.52		
Health Program <sup>3</sup>						30.00	35.00		
Marketing <sup>4</sup>						20.00	25.00		
Supplies and Misc <sup>5</sup>						13.00	17.00		
Int. on Operating Cap. <sup>6</sup>	\$167	12 mo	8.5%			14.22	14.22		
<b>TOTAL VARIABLE COSTS</b>						368.74	382.74		
<b>FIXED COSTS</b>									
Labor Charge <sup>7</sup>		8 hrs		\$13.50 /hr		108.00	108.00		
Cow Replacement <sup>8</sup>		20%		\$1,200.00 /cow		240.00	240.00		
Breeding (Cost/Cow) <sup>9</sup>		33%	Bull Cost	1800	Cows/bull	20	29.70	29.70	
Int. on Breed Stock <sup>10</sup>		902			6%	54.12	54.12		
Equipment Charge <sup>11a</sup>						48.68	48.68		
Buildings Charge <sup>11b</sup>						31.74	31.74		
Management Charge <sup>12</sup>			5%	of gross revenue		31.33	31.33		
<b>TOTAL FIXED COSTS</b>						543.57	543.57		
<b>TOTAL COSTS</b>						912.30	926.30		

**RETURN ABOVE VARIABLE COSTS**  
**RETURN ABOVE TOTAL COSTS**  
**RETURN TO LABOR AND MANAGEMENT**<sup>13</sup>

257.90	<b>243.90</b>
(285.66)	<b>(299.66)</b>
(146.33)	<b>(160.33)</b>

Values highlighted in gold may be changed to assist in computing "Your Budget" Column using macros embedded within the spreadsheet.

Values highlighted in light blue are cells embedded with macros and will be calculated for the user based on data entered.

These cells may be input manually, but macros will be overwritten!

Values highlighted in gray are stand alone cells that require direct input from the user.

<sup>1</sup> Average weaning weight = 550 @ % Calf Crop Weaned

Calf Crop Weaned can be calculated by: Number of calves weaned / Number of cows

Cull cows: Cull value X (20% cull rate - 3% death loss)=\$500 X (0.20-0.03)

Cull bulls: Cull value X (25% culling rate - 3% death loss)/number of cows/bull =800 X (0.25-0.03)/25=\$7

<sup>2</sup> Feed prices estimates from the feed software package "SESAME". For more information on diet formulation, contact the OSU Extension Beef Team at <http://beef.osu.edu>. Sesame can be found at <http://www.sesamesoft.com>

Assumes feed cost of \$2.01/day, Average Daily Gain of 3 lb/day and a crude protein level of 10.2%

Assumes total feeding of 365 days - pasture feeding of 245 days and Hay or Silage feeding of 120 days

Days on Hay or Silage automatically adjusts to days on pasture (i.e. 260 days on pasture changes hay formula to 105 days)

<sup>2a</sup> Feed Concentrate assumes a 70% corn/30% soybean meal mix - Input the days fed with feed concentrate in cell G30

(\$200/ton corn price times 70%) = 140 + (\$500/ton soybean meal price times 30%) = 150 = \$290/ton

<sup>3</sup> Costs of health program estimated by authors based on industry experience and expertise

<sup>4</sup> Costs of marketing estimated by authors based on industry experience and expertise

<sup>5</sup> Costs of supplies other other expenses estimated by authors based on industry experience and expertise

<sup>6</sup> Includes full cost of feeder steer plus 1/2 cost of feed, vet & med. and utilities for 6.5 mo. at 9% int.

<sup>7</sup> Assumes the cost of wages and benefits

<sup>8</sup> Assumes that the cost to replace is 20% of the cow.

<sup>9</sup> Breeding Cost taking the Replacement rate of 33%, the cost of a bull, and the cows per bull

<sup>10</sup> Average of bull cost and cull bull value divided by cows per bull plus the average of price per cow and cull cows

<sup>11a</sup> Machinery cost calculations are located on the next worksheet - Click Building and Machinery below

<sup>11b</sup> Machinery cost calculations are located on the next worksheet - Click Building and Machinery below

<sup>12</sup> Management charge is 5% of gross revenue

<sup>13</sup> Return to labor and management is the revenue less total expenses except operator labor and management.

It is a measure of the returns to the operator's labor and management.