

# 4-H Market Livestock Budget Template

This template is designed to assist members, parents and leaders in gaining a better understanding of the various factors which need to be considered if selecting a 4-H Market Livestock project. Youth can utilize technology in assessing various factors in developing a project budget, thereby gaining a realistic perspective of what their project might actually cost. While the budgeting concepts contained within the template can be used for non-market livestock projects, several of the template calculations are designed specifically for Market Livestock projects.

## Preliminary Data:

To effectively utilize the capabilities of this template, members will need to provide information regarding certain parameters of the animal(s) they intend to purchase and the type/value of feeds that they will be using. This data will be utilized in helping to calculate figures for the Feeds section of the actual budget form, found on page 2. If you only have one project animal, then there is no need to enter information under the "Animal 2" heading. {Note: "yellow" fields contain calculated values}

### Animals:

	Animal 1	Animal 2
Estimated Purchase Weight (lbs):	<input type="text"/>	<input type="text"/>
Estimated Final Market Weight (lbs):	<input type="text"/>	<input type="text"/>
Projected Net Weight Gained (lbs):	0	0
Total Pounds Weight Gained (all animals):	0	

### Feeds:

	Feed Conversion	Grain (%)	Hay (%)
<b>Beef</b> (2.80 ADG)	6	75	25
<b>Goat</b> (0.33 ADG)	7.5	70	30
<b>Sheep</b> (0.75 ADG)	4	75	25
<b>Sheep</b> (0.50 ADG)	6	50	50
<b>Swine</b> (1.80 ADG)	4	100	0

Projected Feed Conversion Ratio (select value from chart or enter your own value):

Total Estimated Pounds of Feed Needed for Project (all animals): 0

Average Percentage Composition of Ration from:  % Grain  % Hay  
 {Enter value from table above, or your own values - must total 100}

Note: some complete feeds may require supplemental roughage (hay) -- check feed tag for details.

Estimated Total Pounds of Feed Purchased: 0 lbs. Grain 0 lbs. Hay

Note: If feasible (grains especially) should be purchased in 2-3 week supplies to avoid feed becoming stale.

Estimated Average Feed Cost per Pound (enter in cents):  Grain  Hay  
 {Enter values in decimal format as shown in the examples below}

Examples: 50 lb bag of feed costs \$12.00; \$12.00 / 50 = 0.24; enter **0.24** in box for Grain  
 Hay costs \$130 per Ton; \$130.00 / 2000 = 0.065; enter **0.065** in box for Hay

Estimated Total Project Feed Costs (in dollars): \$ 0.00 Grain \$ 0.00 Hay  
 {Copy these values to the **Grain** and **Hay** sections of the Budget template, on page 2}

OVER

# 4-H Market Livestock Budget Template

Species: \_\_\_\_\_

Member Name: \_\_\_\_\_

Date Prepared: \_\_\_\_\_

**Fixed Costs:**

Fixed costs cover items that typically have multiple years of serviceable "life" within the project area. While the initial cost may all occur within one year, the impact of that expense can be spread out over the expected "life" of that item. While you may not have to pay directly for these expenses, they are important to consider in gaining a realistic picture of your total project experience.

Type	Description	Existing Value	Cost for Improvements
Shelter/Barn			
Fences/Panels			
Feed Equipment			
Water Equipment			

**Total Fixed Costs** (inc. Existing Value and Improvement Costs): 0.00

**Annual Income & Expenses:**

These are the costs and receipts that occur within a given project year.

INCOME (Est.)		
Animal Sale Value (see #14 of Project Planning Worksheet <u>or</u> enter own value)		
	Animal 1	
	Animal 2	
Premiums/Awards		
Other Income		
<b>Total Income</b>		<b>0.00</b>
EXPENSES (Est.)		
Animal Purchase Value (see #12-B of Project Planning Worksheet <u>or</u> enter own value)		
	Animal 1	
	Animal 2	
Feed		
	Grain / Concentrates (see bottom of previous page <u>or</u> enter own estimates)	
	Hay / Roughages (see bottom of previous page <u>or</u> enter own estimates)	
	Pasture	
	Supplements	
Entry Fees / Inspection Fees		
Hauling / Transportation		
Health Care / Veterinary		
Interest (on money borrowed)		
Marketing / Sales / Commissions		
Show Equipment		
Supplies		
Other Expense		
<b>Total Expenses</b>		<b>0.00</b>
<b>Estimated Profit or Loss (Annual)</b>		<b>0.00</b>

**Overall Budget** (including projected Fixed Costs & Annual Income/Expense)

Fixed costs are prorated over the number of years the member will be in project, then added to Annual budget.

How many more years (including this year) do you plan to take this species in 4-H?

Your estimated overall project profitability for this year (based on data provided above): #DIV/0!

## 4-H Market Livestock "Break-even" Analysis

Congratulations. Having completed the "4-H Market Livestock Budget Template " you have taken a big step in beginning to operate like a successful, real world livestock producer. The most effective large & small-scale producers know and have an excellent understanding of their production costs, projected market prices and understand how these factors ultimately influence what they can afford to pay for animals coming into their feedlots. Successful producers frequently conduct various "break-even" analyses to determine how changes in purchase price, sales price, or operating practices (feed, health, marketing, etc.) impact overall profitability.

Just like a producer, most members want to achieve a profit from their 4-H market animal project experience. This section's calculations will help guide youth in determining (based on preliminary data & budget information provided above) what they can afford to pay when purchasing their market livestock project animals - if they were to simply "break-even" (make no profit; have no loss). As they likely are striving to make a profit, they would not want to spend the entire estimated purchase price allowance listed below. *{Note : as you make adjustments to the preliminary data and/or budget figures above, the "break-even" figures below will automatically adjust upward or downward. }*

It is important to realize that the more accurate members are in projecting actual costs within their budget, the more accurate these results will be.

### Project Animal Purchase Price "Break-Even" Analysis

	<u>without Fixed Cost</u>	<u>with Fixed Cost</u>
"Total Income"	0.00	0.00
less "Total Expense" (excluding Animal Purchase Value)	0.00	0.00
less "Fixed Cost" (on average annual basis )	n/a	#DIV/0!
<b><i>Estimated Animal Purchase Price Allowance</i></b>	0.00	#DIV/0!

#### **Purchasing one animal** (per preliminary data, must have income value entered for only Animal 1 above)

Estimated Purchase Weight (Animal #1)	0	0
Divided by Purchase Price Allowance	0.00	#DIV/0!
<b><i>Break-Even Purchase Price</i></b> (per pound)	#DIV/0!	#DIV/0!

#### **Purchasing two animals** (per preliminary data, must have income value entered for Animal 2 above)

Estimated Purchase Weight (Animal #1)	0	0
Estimated Purchase Weight (Animal #2)	0	0
Divided by Purchase Price Allowance	0.00	0.00
<b><i>Break-Even Purchase Price</i></b> (per pound)	#DIV/0!	#DIV/0!