Allegany County Cooperative Extension

Junior Breeding Beef Project Record Book

Please attach a picture of your project animal here

Name: _____

Age as of 1/1_____ Years in 4-H_____

Name of Animal:_____

Project Start Date _____ Project End Date: _____

Livestock Interviews Friday of fair from 9.30-11.30 am near the livestock arena .

Project Records due into the 4Hoffice first Friday in September. If showing at State Fair Project Records will be due Second Friday of September .

Instructions

1. Use this project record for breeding beef calves born Sept 1st –Dec 31st of the previous year or born Jan 1st or after of current year.

2. Keep a separate record for each individual animal.

3. Fill out a new project record book every year for breeding beef however some information will carry over from the previous year.

4. Write the things you do with and without your animal that relates to your breeding project.

5. Keep all receipts as proof of money spent for your project. Photo copies of receipts are allowed.

6. Turn in your project records by the date that portfolios are due in order to get credit for your project.

Project Plans

Complete this section after you take ownership of your project.

Why did you choose this individual animal?

_____

_____

_____

_____

How do you plan to care for this animal?

_____

_____

_____

_____

What do you want to learn about your project this year?

_____

_____

_____

_____

How will you ensure your animal is on track for show?

_____

_____

_____

_____

Project Animal's Information

Animal's Name _____

Identification Number and/or Tattoo _____

Breed(s) _____

Gender_____ Date of Birth _____

Date of Purchase_____ Total Purchase Amount $_____

Purchase Weight _____lbs Purchase Hip Height (inches) _____

Days from Purchase until Show _____

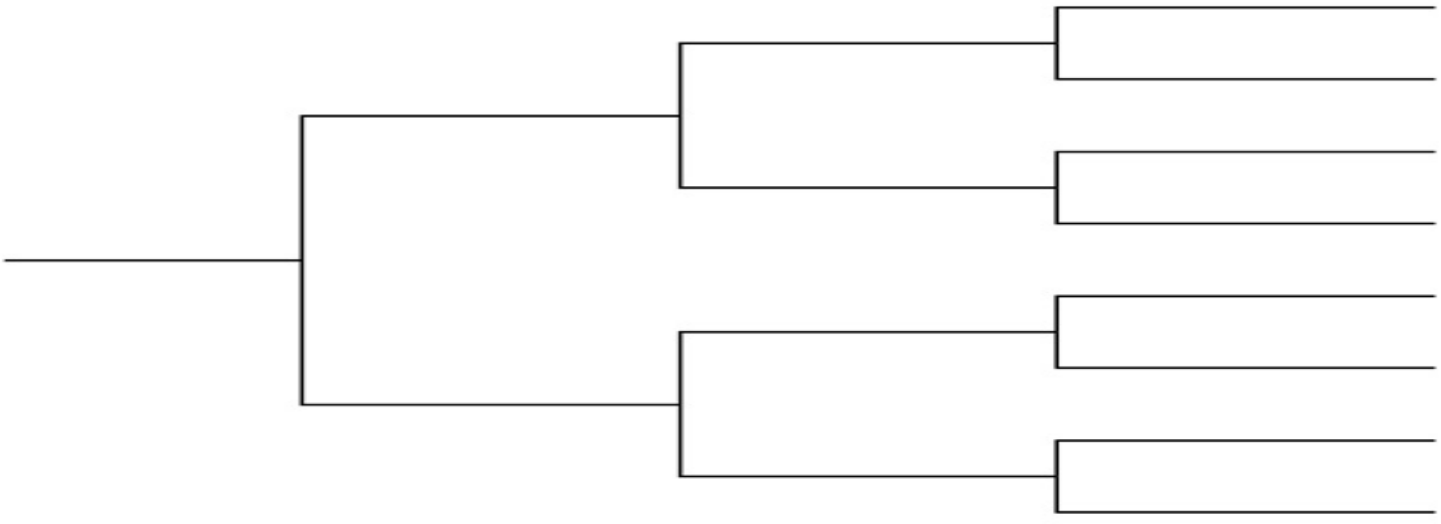
Estimated Show Weight _____lbs

Estimated amount of pounds needed to gain until show_____lbs

Estimated pounds gained per day until show _____lbs

Project's Pedigree

Fill in as much of your project's pedigree you know even if it is just different breeds that make up your animal.



Project Evaluation

How many animals did you look at before choosing this yearling? _____

Why did you choose this yearling?_____

_____

What is this animals best structural characteristic and why? _____

_____

What is one structural fault of this animal and why? _____

_____

What plan do you have in mind for this year for this yearling? _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

Project Performance

Date	Weight (lbs)	Days between last and taken weight	Total pounds gained	Pounds gained per day
Birth Weight		**X**	**X**	**X**
Weaning Weight				
Yearling Weight				

What was your yearling's over-all average daily gain? _____lbs

How many total pounds did your yearling gain while in your care? _____lbs

How well did your yearling grow? _____

How does your yearling compare to industry standards?_____

How does your yearling compare to breed standards? (if your yearling is a grade compared to the highest breed percentage present in your animal)_____

Bull Selection

If you have a heifer, compare at least two bulls including the bull you use for breeding. If you have a bull project compare him to a similar bull here.

Bull #1

Name _____ Breed _____

What are some reasons to use this bull for breeding? _____

_____

_____

What are some reasons not to use this bull for breeding?_____

_____

_____

Bull #2

Name _____ Breed _____

What are some reasons to use this bull for breeding? _____

_____

_____

What are some reasons not to use this bull for breeding?_____

_____

_____

What bull did you choose (name) _____

Breeding Evaluation

When will your animal be eligible for breeding? _____

What date do you expect to breed your animal? _____

How will you breed your animal? _____

Heat Tracking

Use this chart to help track heats on your heifer or dates you see your bull tracking animals he is to breed. Use the bleed off column to document the ID of an animal tracked by your bull and determine her cycle days and next heat to see your bull's behavior or possible conception of that animal previously tracked by your bull. Ball markers or heat detection patches can be used.

Date	Behavior displayed	Bleed off date Or Animal ID	# of days in her cycle	Next expected heat
7-20	Standing for mounting	7-21	17	8-6

*If you breed your heifer mark it here in this chart so you can check for her next heat to help determine conception. Synch protocols can also be documented here if used. Additional pages can be added.

Is your heifer showing regular cycles or did your bull have a semen evaluation

Why or why not? _____

Did you synch your heifer for breeding if so what synch protocol did you use?_____

_____

Did your animal settle on the first breeding?_____

Why or why not?_____

If conception was achieved, when is your calving date? _____

Feed Records

Example

Date	Bought (B) or Grown (G)	Feed Type/ Source	Number of Units	Weight of a Unit	Total weight	Cost per Unit Total Cost	Cost per Pound
2-7	*G*	*Hay/Forage*	*6 Bales*	*40lbs per Bale*	*240lbs*	*$2/ Bale $24.00*	*$.05*
2-7	*B*	*Corn/Energy*	*6 Bags*	*100lbs*	*600lbs*	*$10.95/ Bag $65.70*	*$.11*
2-7	*B*	*Grower/ Complete*	*8 Bags*	*100lbs*	*800lbs*	*$13.95/ Bag $111.60*	*$.14*
2-7	B	Grower/ Complete	.21 Bags	100lbs	21lbs	$10.00/ Bags $2.10	$.10

Your Records

Date	Bought (B) or Grown (G)	Feed Type/ Source	Number of Units	Weight of a Unit	Total weight	Cost per Unit Total Cost	Cost Per Pound

Information to Assist Your Feed Records

Additional pages can be added if needed. Remember purchased or bought items should have a receipt to document the purchase. Photo copies of receipts are allowed. If you are feeding more than one animal, only document the feed that is given to ***your*** individual animal. Depending on your set up we realize calculating feed cost for one individual can be difficult. Estimations for this purpose are acceptable as long as the documented receipt can prove to be accurate.

For example: You are feeding a group of ten calves and buying two hundred pound bags of feed every week at ten dollars a bag, note the relative size of your calf compared to the group. All ten calves are eating approximately 2.86 pounds of feed a day each. If your calf is the biggest and spends the most time at the feeder, he/she is probably eating more than average. This should be documented at three pounds per day.

Here is how the math works:

200 lbs of feed given to 10 calves = 20 lbs of feed per day

Divide by 7 days = 2.86 lbs of feed per calf per day

You would round up because your calf is bigger to 3 pounds per day

3 lbs X 7 days = 21 lbs of feed per week

21 lbs is less than 100 lbs therefore 21 lbs/100 lb bag is 0.21 bags

*See the last line in the example chart for documentation of this. Be sure to make a notation on the receipt to reflect the relative cost.

Summary of Feed Costs

Total cost of forages fed (add all forage cost per unit total cost) _____

Total cost of grains fed (add all grain cost per unit total cost) _____

Total cost of supplements fed (add all supplement cost per unit total cost) _____

Total feed cost (add all three totals up)_____

Project Health Treatment Records

These costs can consist of deworming, veterinary calls, vaccinations or any other health or preventive treatments.

Date	Animal or pen ID	Product name	Amount admini-stered	Route of admini-stration	Person who treated animals	Preslaughter withdrawal	Date withdrawal completed	Date and treatment results	Advising veteri-narian	Cost

Other Costs or Income

These costs can consist of general supplies like; halters, brushes, bedding, trucking, breeding cost. Income can be prize money won or manure sold etc. Final information will be placed on the financial summary page.

Date	Item/description	Cost ($)	Income ($)
Example 4/18	**Entry Fee**	**$5.00**	
Breeding fee			
Total			

Financial Summary

Here is where you are going to put all your documentation together from the previous pages.

Income

Other income total $_____

Expenses

	Beginning Evaluation ($)	Actual Amount ($)	Total ($)
Cost of animal at Purchase ($) Or *cost to raise as a calf			
Total cost of Feed ($)			
Total Health Care cost ($)			
Breeding cost ($)			
Other cost ($)			
Other income ($)			
Your cost to raise yearling project this year($)			

*Only put this value in if you had this animal last year and have continued to raise him/her. The value would carry over from your last project record.

Total pounds gained _____lbs

Your cost per pound to raise your yearling $_____ (Your cost divided by pounds gained)

Could you do something differently to increase your profit on next year's project?
(Examples: use cheaper feed, don't buy a bottle baby, or purchase a preconditioned calf)

_____

_____

How did your initial profitability evaluation and the actual compare and why?

_____

_____

What You Experienced

Where did you keep your animal? _____

_____

What did you do to take care of your animal? _____

_____

_____

How much and what did you feed your animal? _____

_____

What did you do to keep your animal healthy? _____

_____

_____

What did you do to keep your animal and equipment clean? _____

_____

_____

What did you do to groom and train your animal? _____

_____

_____

What are you doing next with your animal? _____

_____

_____

What was one skill you learned or improved this year? _____

_____

_____

What was one goal you met this year? _____

_____

What would you like to learn or do next year?_____

_____

_____

_____

Portions of this Project Book were adapted from publications from Penn State University's College of Agricultural Sciences and Penn State Extension