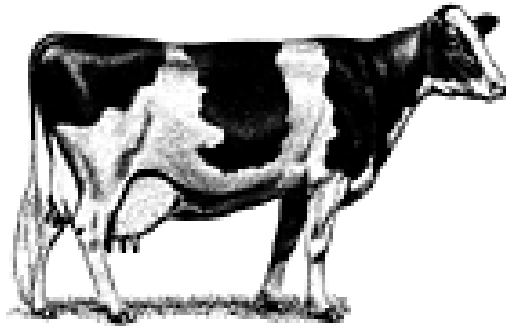




Virginia 4-H Dairy Project



Senior Record Book (for youth ages 14-19)

Name _____ Date of Birth _____ Age _____

Physical Address _____

Mailing Address (if different) _____

What county/city 4-H program are you enrolled in with this project _____

4-H Club _____ Years in 4-H (including this year) _____

Is the place where you keep your project animal registered with the National Animal Identification System (NAIS) Yes No

Date Project Started _____ Date Project Completed: _____

Member Statement:

I hereby certify that I have personally kept records on this project and have personally completed this record book.

4-H Member's Signature _____ Date: _____

Record Approval: The 4-H member has completed this record book to a satisfactory level.

Parent/Guardian Signature: _____

4-H Leader's Signature: _____

Instructions for Using this Record Book

This record is designed to be the place for you to keep records on your animal projects. Read through the book carefully and complete all sections requested (for example, project planning, feed and health care purchases, supplies and tools, results from shows, and a financial summary). Do not leave any sections blank unless they do not relate to your project animal. It is important that you do your own work, but ask your 4-H leader, Extension Agent, parents, or other 4-H volunteers for help when you do not understand something.

This project record book is for record-keeping only. Information about how to raise these animals can be found in various 4-H Project Guides. Copies of project guides may be obtained from your local Virginia Cooperative Extension office.

1. Read through this book and familiarize yourself with the kinds of records you will need and where information should be recorded. Discuss the book with your parent and/or 4-H leader.
2. Complete essential information when you first start your project, such as the cover page and the project planning page. Share your goals with your 4-H leader.
3. Keep your records up to date. Record information as it occurs. Consider setting aside specific times during the project when you will work on your record book.
4. Write neatly and legibly. Use only one color ink.
5. Include at least one photograph of you with your project animal, but do not include more than two pages of photos. Additional clippings should be displayed in a scrapbook, not this record book.
6. Maintain your book in a 3-ring notebook/binder or folder.
7. Write a project story that captures what happened during your project. Discuss your goals, your activities, your challenges, and your accomplishments. Project stories must be at least five sentences; more experienced 4-H members' stories should be more in depth.

Revised 2007 by: Kelly Mallory, Extension Agent, 4-H Youth; Kaci Coppedge, Extension Agent, 4-H Youth; Cyndi Estienne, Extension Agent, 4-H Youth; Mary Elizabeth Williams, Extension Agent, 4-H Youth; Jocelyn Dailey, Extension Agent, 4-H Youth; Leslie Prillaman, Extension Agent, 4-H Youth; Bertha Durbin, 4-H Volunteer; Sandra Turner, 4-H Volunteer; Mark Walberg, Extension Animal Science Specialist, Virginia Tech; Celeste Crisman, Extension Equine Specialist, Virginia Tech; David Winston, Extension Dairy Specialist, Virginia Tech.

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Project Planning

This page should be completed at the start of your project and share it with your 4-H leader.

1. Set at least three goals for yourself this year.

- What do you want to learn?

- What do you hope to accomplish?

- What new activities do you want to try?

Please tell us about your project animal (check all that apply)

- I purchased my project animal
- My project animal is bred & owned (from a cow on my family farm)
- I lease my project animal
- I board my project animal at another farm

Project Planning

1. What factors will you consider when selecting your project (breed, age, price, muscling, etc...)?

2. Where will you get your project ? Reasons for selecting that breeder, farm, or business?

3. How much do you expect to spend on your project?

Purchase price or value of the animal \$ _____

Cost of Feed \$ _____

Cost of Supplies \$ _____

Other Costs \$ _____

Expected Total Expenses \$ _____

4. How will you pay for your project animal and expenses?

After completion, show this page to your 4-H leader for approval.

Leaders Signature: _____ Date: _____

Dairy Project Inventory Record

Use one chart for all animals. Copy additional pages as needed

Animal ID (Name or #)	Registration # and/or Tattoo	Description (breed, color, marking, etc...)	Birth date of Animal	Ownership Information	Animal Value or Purchase Price
				<input type="checkbox"/> Raised on the Farm <input type="checkbox"/> Purchased _____ (purchase date) <input type="checkbox"/> Leased _____ (lease date)	
				<input type="checkbox"/> Raised on the Farm <input type="checkbox"/> Purchased _____ (purchase date) <input type="checkbox"/> Leased _____ (lease date)	
				<input type="checkbox"/> Raised on the Farm <input type="checkbox"/> Purchased _____ (purchase date) <input type="checkbox"/> Leased _____ (lease date)	
				<input type="checkbox"/> Raised on the Farm <input type="checkbox"/> Purchased _____ (purchase date) <input type="checkbox"/> Leased _____ (lease date)	
				<input type="checkbox"/> Raised on the Farm <input type="checkbox"/> Purchased _____ (purchase date) <input type="checkbox"/> Leased _____ (lease date)	
				<input type="checkbox"/> Raised on the Farm <input type="checkbox"/> Purchased _____ (purchase date) <input type="checkbox"/> Leased _____ (lease date)	

Dairy Identification Page

(Complete this page for ONE of your cow or heifer projects)

Animal's Name: _____

Registration/Tattoo/Tag: _____

Breed: _____ Date of Birth: _____

Name of Breeder: _____

City, State: _____

Pedigree

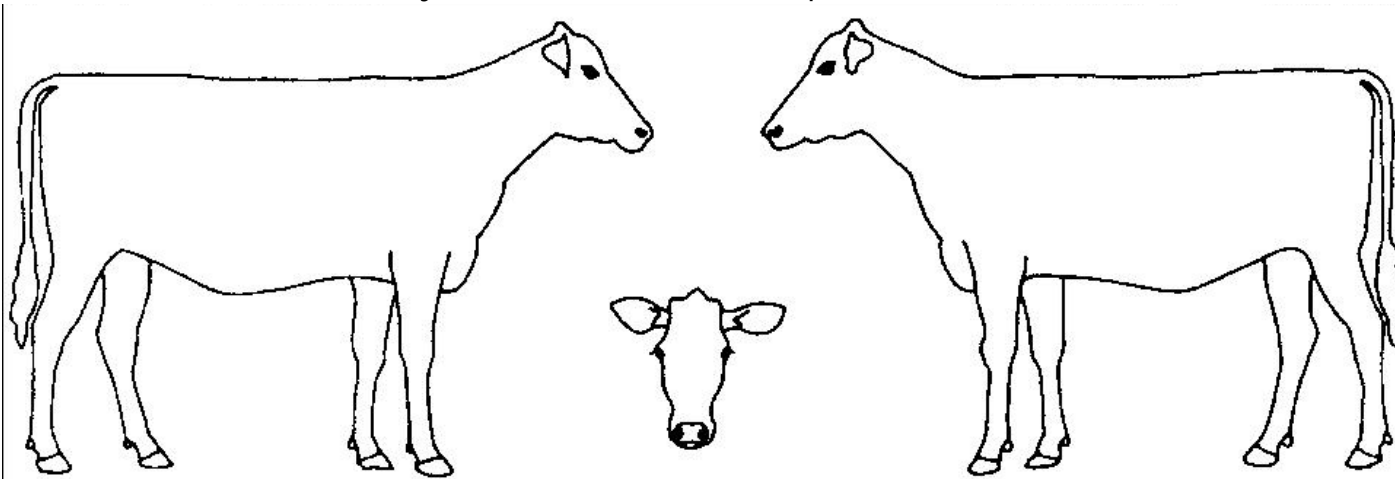
_____	Paternal Grandsire	Number
Sire's Name	Number	
	Paternal Granddam	Number

_____	Maternal Grandsire	Number
Dam's Name	Number	
	Maternal Granddam	Number

Identification

Use the diagram below to note your animal's markings.

For breeds such as Jersey or Brown Swiss, attach a photo and be sure to ID with a tattoo!



Dairy Heifer Growth Table

* Choose one heifer and track her growth. *

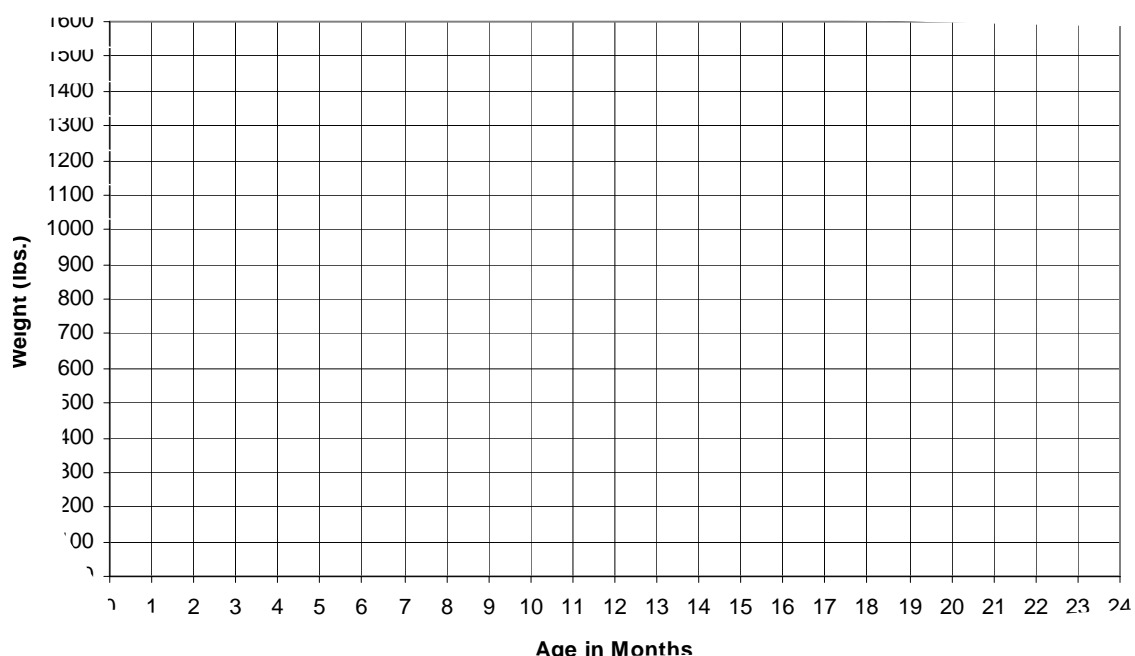
Animal's Name: _____ Breed: _____

Use a weight tape and/or livestock scales to measure your heifer each month. Record the weight of your heifer on the table below then plot the information on the Heifer Growth Chart on the next page. This will help you see how fast your heifer is growing. If possible, compare your heifer's data to national averages. A chart is available from your local Extension Office or can be located on the Internet.

Date	Age (month)	Weight (lbs.)	Height (inches)

Once you record your data in the table above, plot those points on the graph below and connect each point with a line

Dairy Heifer Growth Chart



At what weight should your heifer be bred? _____

What can be done to encourage growth in heifers that are too small? _____

What are some possible disadvantages of too fast growth rates in heifers? _____

Animal Care and Management

Your project requires regular care and management. List the things necessary to take care of your project animal(s).

Include the following:

- Feeding and watering practices
- Grooming (clipping, trimming, foot care, etc.....)
- Health practices and medicines
- General Management (cleaning living area and feed pans, halter breaking, training, etc...)

Daily—Things done every day
<i>Example: fed animal , gave fresh water, spent time with animal</i>
Weekly—Things done once a week
<i>Example: Cleaned feed and water containers, gave new bedding</i>
Monthly—Things done once a month
<i>Example: Groomed my animal</i>
Yearly—Things done one time or occasionally throughout the year
<i>Example: Trimmed feet</i>

Equipment and Supply Inventory

At the beginning of the 4-H year, take an inventory of what equipment and supplies are on hand. If the cost is not known, estimate the replacement value. Add new equipment or supplies you purchase to the list. If equipment is shared between 4-H members, divide the cost between

Beginning Inventory - Equipment on hand at beginning of the project year
Remember that these are not "new" items. Wear and tear occurs on equipment we use again from year to year. These items will depreciate (go down in value). Please take this into account when putting a dollar value on your inventory items.

Amount & Kind	Beginning Value	End Value
<i>Ex: 3 used rope halters</i>	<i>\$12.00</i>	<i>\$9.00</i>

New Inventory - Equipment and supplies purchased during the project year
Wear and tear occurs on equipment as we use it. New items will depreciate (go down in value). Please take this into account when putting a dollar value on your inventory items.

Amount & Kind	Beginning Value	End Value
<i>Ex: new show halter</i>	<i>\$80.00</i>	<i>\$75.00</i>
<i>fly Spray</i>	<i>\$15.00</i>	<i>\$0.00</i>
Total Inventory Value	\$	\$



\$	-	\$	=	\$	Equipment Expenses
----	---	----	---	----	---------------------------

Worksheet - How to Calculate Monthly Cost of Feeds

This worksheet provides you with the formula and practice on calculating how much you spend per month on feed. This information is needed to complete page 9. If you feel comfortable with this calculation you do not need to complete this page just move on to page 9.

Grain

Cost of a bag of grain: \$ _____ / _____ lbs in the bag = \$ _____ per lb

Amount fed: _____ lbs per day X _____ days (in month) = _____ lbs

Monthly cost of grain: \$ _____ X _____ lbs =

(Cost per lb grain) (Total amount fed) (Monthly Cost of Grain)

Hay

Cost of a bale of hay: \$ _____ / _____ lbs per bale = \$ _____ per lb

Amount fed: _____ lbs per day X _____ days (in month) = _____ lbs

Monthly cost of hay: \$ _____ X _____ lbs =

(Cost per lb of hay) (Total amount fed) (Monthly Cost of Hay)

Supplements

Cost of package: \$ _____ / _____ oz or lb. in container = \$ _____ per oz or lb.

Amount fed: _____ oz or lb. per day X _____ days (in month) = _____ oz or lb.

Monthly cost of supplements: \$ _____ X _____ oz or lb. =

(Cost per oz or lb.) (Total amount fed) (Monthly cost of Supplement)

Pasture

Pasture costs money! Maintaining pasture requires fertilizer, lime, seed, mowing (hiring someone or buying diesel for the tractor), repairing fence boards, etc. If you'd like to estimate the cost of providing pasture for your horse, take the dollars spent on these items each month and divide by the number of horses who use that pasture.

	÷		=	
--	---	--	---	--

(Dollars spent)

(Number of horses)

(Monthly cost of pasture)

Feed Records and Expenses

Keeping good feed records is important. A good practice is to enter your feed expenses when you buy feed. Put a calendar in the barn and write down the amount and the kind of feed used each day. At the end of the month, total each kind of feed used and its cost and record the information below. Home-raised feeds should be valued at

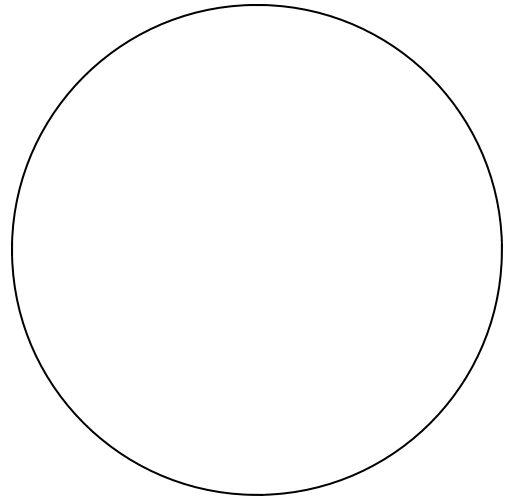
<u>Month</u>	<u>Type of Feed</u> <small>(grain, silage, hay, pasture, etc.)</small>	<u>Amount</u> <small>(indicate lbs, bales, etc.)</small>	<u>Cost or Value</u>	
____ days	_____	_____	\$ _____	\$ _____
	_____	_____	\$ _____	Total Costs
	_____	_____	\$ _____	
____ days	_____	_____	\$ _____	\$ _____
	_____	_____	\$ _____	Total Costs
	_____	_____	\$ _____	
____ days	_____	_____	\$ _____	\$ _____
	_____	_____	\$ _____	Total Costs
	_____	_____	\$ _____	
____ days	_____	_____	\$ _____	\$ _____
	_____	_____	\$ _____	Total Costs
	_____	_____	\$ _____	
____ days	_____	_____	\$ _____	\$ _____
	_____	_____	\$ _____	Total Costs
	_____	_____	\$ _____	
____ days	_____	_____	\$ _____	\$ _____
	_____	_____	\$ _____	Total Costs
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____ days	_____	_____	\$ _____	\$ _____
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____ days	_____	_____	\$ _____	\$ _____
	_____	_____	\$ _____	Total Costs
	_____	_____	\$ _____	
____ days	_____	_____	\$ _____	\$ _____
	_____	_____	\$ _____	Total Costs
	_____	_____	\$ _____	
____ days	_____	_____	\$ _____	\$ _____
	_____	_____	\$ _____	Total Costs
	_____	_____	\$ _____	

TOTAL FEED COSTS FOR PROJECT \$ _____

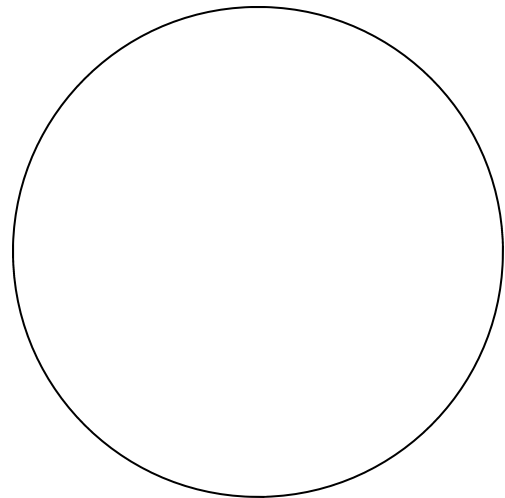
Feed Summary

Calculate the total amount of feed used and the amount spent of feed. Leave any blank that do not apply. Complete the pie charts below.

<input type="text"/>	Total Pounds of Grain	_____	lbs
<input type="text"/>	Total Pounds of Forage	_____	lbs
<input type="text"/>	Total Pounds of Supplements	_____	lbs
	Total Pounds Fed	_____	lbs



<input type="text"/>	Total Cost of Grain	_____	\$
<input type="text"/>	Total Cost of Forage	_____	\$
<input type="text"/>	Total Cost of Supplements	_____	\$
	Total Feed Cost	_____	\$



Question

How do these pie charts compare?

Feed Tag Information

Please attach a tag or label from one feed being used for your project animal. If a home-made mix is used please describe the mix on the back of this page.

1. What production level or type of animal is this feed designed for?
(*Ex. lactating animal, growing animal, etc....*)
2. What is the Crude Protein level of this feed?
3. What is the main ingredient in this feed?
(Hint: if the answer is not clear, it's probably the first ingredient listed.)
4. Is this a medicated feed?

Health Record

Vaccination Record			
Name of Animal(s) Vaccinated	Date(s)	Vaccination Type <small>* The starred vaccines are often given in combination. If your animal receives a combination just circle what is included and list the cost once.</small>	Cost
		IBR, PI3, BVD & BRSV*	
		Brucellosis	
		Clostridium	
		Leptospirosis and/or Vibrio*	
		Ecoil	
		Other:	
Total Vaccination Expenses			\$

Deworming Record			
Date	Name of Animal(s) Treated	Brand, Dose & how you gave it	Cost
Total Deworming Expenses			\$

Other Health Expenses (Vet Checks, Treatments, Hoof Care, etc..)

Date	Animal(s)	Diagnosis/Treatment/Procedure Reason for Vet Check	Cost
Total Other Health Expenses			\$

Breeding and Calving Summary

Animal ID	Date Bred	Total Semen Costs	Date Checked Pregnant	Date Calved	Sex of Calf	End Product
	1st Service: _____ 2nd Service: _____ 3rd Service: _____					<input type="checkbox"/> Added to Herd <input type="checkbox"/> Sold \$ _____
	1st Service: _____ 2nd Service: _____ 3rd Service: _____					<input type="checkbox"/> Added to Herd <input type="checkbox"/> Sold \$ _____
	1st Service: _____ 2nd Service: _____ 3rd Service: _____					<input type="checkbox"/> Added to Herd <input type="checkbox"/> Sold \$ _____
	1st Service: _____ 2nd Service: _____ 3rd Service: _____					<input type="checkbox"/> Added to Herd <input type="checkbox"/> Sold \$ _____
	1st Service: _____ 2nd Service: _____ 3rd Service: _____					<input type="checkbox"/> Added to Herd <input type="checkbox"/> Sold \$ _____
	1st Service: _____ 2nd Service: _____ 3rd Service: _____					<input type="checkbox"/> Added to Herd <input type="checkbox"/> Sold \$ _____
Total Semen Costs		\$				

Miscellaneous Expenses or Fees

List any expenses that do not fit into one of the previous categories. Examples: Entry fees, transportation, breed association dues, registration papers, etc.

Date	Description	Cost \$
<i>Example 7/1</i>	<i>County Fair Entry Fees</i>	<i>\$40.00</i>
Total Miscellaneous Expenses		\$

Miscellaneous Income

Any income from the sale of products from your project animal. (animals or offspring sold)

Date	Description	Income \$
Total Miscellaneous Income		\$

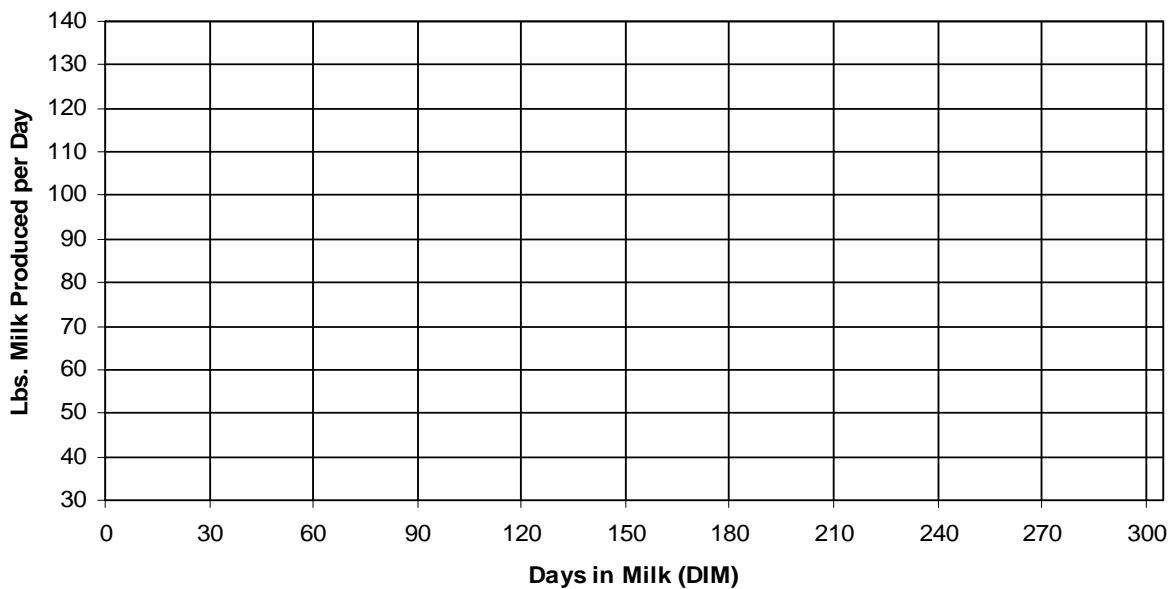
Lactating Cow Production Table and Graph

Complete the following table to keep a record of your cow's production and the monthly income she earns

Month	Days in Milk	Average Lbs. Milk/Day	Total Lbs. Milk per Month	Cwts. Per Month (divide lbs./month by 100)	Lbs. Protein per Month	Lbs. Fat Per Month	Price Received per Cwt.	Total Value of Milk Sold (cwt. X price/cwt.)
January								
February								
March								
April								
May								
June								
July								
August								
September								
October								
November								
December								
Total Value of Milk Sold \$								

Instructions: Use the "Average Lbs. Milk per Day" column from the table above to complete this graph. Find the "Days in Milk" along the bottom of the graph and then plot a point at her average pounds per day. Connect the dots with a line. Where does her peak production occur?

Milk Production Graph



Show Ring Record

Record the date and name of any shows attended, placing out of the number of entries in the class, and any premium money earned.

Date	Show	Class	Placing	Premiums Won
			----- out of -----	
			----- out of -----	
			----- out of -----	
			----- out of -----	
			----- out of -----	
			----- out of -----	
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			----- out of -----	
			----- out of -----	
			----- out of -----	
			----- out of -----	
			----- out of -----	
Total Premiums Won				\$

Project Financial Summary (one chart for all)

Every project has a value, even those which are leased or borrowed. Please work with the owner or breeder to determine the value of the project.

Value of Project Animal(s)	\$
<u><i>Income</i></u>	\$
1. Animals or Offspring Sold p16	\$
2. Milk Sold p17	\$
3. Premiums Won p18	\$
Total Income =	\$
<u><i>Expenses</i></u>	\$
<ul style="list-style-type: none"> • Many youth select projects as a hobby or for fun, but all projects will incur expenses. • Please use this section to list all expenses related to participating with this project animal 	
1. Leasing Fees (if animal is leased)	\$
2. Equipment Expenses p 9	\$
3. Feed Expenses (<i>if not included with leasing fees</i>) pg 11	\$
4. Health Care Expenses (Vaccinations pg14 + Deworming p14 + Other Health Expenses p15)	\$
5. Breeding Expenses pg 15	\$
Total Expenses =	\$
Financial Summary (Total Income–Total Expenses)	\$

Questions

1. Was the cost of keeping your project what you expected?

2. What will you do differently next year ?

Note: You may photocopy pages 19-20 and add to other project books if you have more than one project type.

4-H Activities

Number of club meetings held: _____

Number you attended _____

What 4-H committees did you serve on?

Did you hold an officer position in your 4-H Club? Yes No

If Yes, which one ?

- President Vice President Secretary Treasurer
 Reporter Chaplain Other _____

What other 4-H leadership roles did you hold this year? (camp counselor, teen leader, etc...)

What other 4-H clubs did you belong to and/or what other projects did you complete?

4-H Activities

(community service, workshops, camps, Share-the-Fun, county contests, judging teams, etc....)

Activity	Date	Location	Placing or Comments

Activities other than 4-H

What other clubs or groups did you belong to this year? (school, church, community, etc...)

List any activities you participated in for scouts, sports groups, church, community service, etc. that were not affiliated with 4-H.

Activity	Date	Comments

What leadership roles did you fulfill outside of 4-H? (school, church, community, etc...)

Note: You may photocopy pages 19-20 and add to other project books if you have more than one project type.

4-H Story

The motto of 4-H is "learn by doing". Each year we learn something new by participating in a 4-H project. Please write a story that explains:

- *What you have learned*
- *New skills you have gained over this past year in 4-H*
- *What goals you accomplished. If you accomplished your goals, how did you do so?*

Other Examples that you may consider writing about include: Something that happened that was funny, sad or exciting, Challenges you faced and how you overcame them, Who helped you with your project and how they contributed, Things you are most proud of. Feel free to relate your 4-H experience to other parts of your life (school, home, family, friends, etc..). Stories must be at least five sentences.



Project Photos



** Please limit yourself to a maximum of two photo pages. **
Additional memorabilia should be displayed in a scrapbook or 4-H portfolio.

**Optional—Record Book Scorecard*

4-H Members: Leave this page blank.

The person judging your book will complete the score card.

<u>Points Possible</u>	<u>Scoring Criteria</u>	<u>Points Awarded by Judge</u>
10	Neatness (legible writing, one color ink, well-organized)	_____
15	Completeness (all pages and sections, complete thoughts and ideas)	_____
5	Signatures obtained on front cover (member, parent, leader)	_____
10	Accuracy (no math errors, factual statements made)	_____
20	Project Work (goals set, evidence of work throughout the year, goals accomplished, book completed by 4-H member, not an adult)	_____
10	4-H Participation (meetings, clinics, workshops, camps, contests, educational experiences)	_____
20	Project Story (well-written, original, creative, complete thoughts, grammar, mechanics)	_____
10	Photos, clippings, etc. (include at least one photo, not more than 2 pages)	_____
100	Total Points Earned by 4-H'er	_____

Scoring: 90-100 Blue, 75-89 Red, 74 or below White

Judges' Comments: