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## THE 4-H DAIRY RECORD

This book is for keeping a complete lifetime record of your 4-H dairy cow. Do not keep a record of more than one cow in this book. Keep a record of every 4-H cow you own in a separate book, whether you exhibit her or not. The record starts with a summary of records up to the time of freshening and continues on until the animal is disposed of. Make the record complete in every detail, accurate and neat. It will serve as a record for you as owner of the cow, and will be a basis for learning some of the principles of good dairy practice.

What you learn in your 4-H Dairy Project will depend largely on how good a record you keep, and how you put into use the information found there. Your record book will be judged as part of your project when you exhibit this cow at a fair, and will also be taken into account should you be considered for special recognition as an outstanding 4-H dairy club member. Be sure to read the instructions on pages 1 and 3; study them carefully before you start keeping your records. This book contains:

PAGE 1	Summary of record up to the time of calving
PAGE 2	Narrative report up to the time of calving
PAGE 3	How to keep the production record
PAGES 4-17	Yearly production and feed records
PAGE 18	Annual summary record
PAGE 19	Production summary—lactation basis Reproduction record
PAGE 20	Record of exhibiting and project scoring
INSIDE BACK COVER	Pedigree

## TWO-YEAR-OLD-HEIFER PROJECT

Dairy club members continue with the same animal used in the yearling project, unless she has been culled from the herd as inferior or has died. In that case, you may substitute a yearling or a two-year-old heifer who has not yet freshened. During this year you will learn how to care for the heifer as she approaches production, and how to care for and feed her for production after she freshens. You will also learn proper care of the young calf from birth. Considerable study is possible with the milking heifer. The matter of balancing up the ration and feeding it for the most production at the lowest cost is very important.

After the heifer has freshened, you will start the production record and learn the problems of milk testing and record keeping.

Placings in this project will be scored as follows:

a. Individuality and condition of the heifer	50
b. Records and written story of methods of feeding, care, management, and cost of feeding	50

## DAIRY COW PROJECT

This is a continuation of the Two-year-old Heifer Project with complete records on feeding, breeding, and production. You will continue with the same animal as long as you remain in 4-H Dairy Club work, unless the cow is culled from the herd. The daughters of these older cows can be used for repeating the younger animal projects. This is the most important of your dairy projects, since it includes the feeding, care, and management of producing cows.

Placings in this project will be scored as follows:

a. Individuality, showing, and condition	35
b. Production (500 pounds fat on mature equivalent basis during a complete lactation of 305 days or less will earn a perfect score; with dual-purpose breeds 350 pounds will do the same)	35
c. Record of feeding, costs, and practices followed	30

## SUMMARY OF RECORDS UP TO TIME OF CALVING

This is a summary of calf and yearling records. You will start using this book when your heifer freshens. At that time summarize your feed records up to that time and fill in the information asked for on this page. This should be a summary of your calf, yearling, and two-year-old records or from the time you started keeping a record on this animal.

	CASH COSTS AND GAIN OR LOSS
Date record started.....	
Breeder.....	Purchase price or value at beginning.....
Address.....	Cost of feed fed.....
Date of purchase.....	Veterinary costs.....
Date animal was registered.....	Other cash costs.....
Date transferred to you.....	Total cash cost.....
Name and number of sire.....	Value at time of freshening.....
Name and number of dam.....	Prize money won.....
Date bred.....	Total value and receipts.....
Number of services required for conception.....	Gain or profit.....

FEEDS FED *	Pounds fed	Cost of feed fed
Whole milk.....		
Milk replacer.....		
Skim milk.....		
Calf meal.....		
Grain fed..... (Corn, oats, bran, etc.)		
.....		
High protein feed.....		
Hay (     ).....		
(     ).....		
Silage (     ).....		
(     ).....		
Pasture days (     ).....		
Total.....	xxxxxxxxxxxxxx	

\* To be copied from calf and yearling, and two-year records up to time of calving.

## RECORD AND STORY UP UNTIL TIME OF FRESHENING

Write a report about your heifer from the time you acquired her up until she calved. Include only important information.

1. Production record of her dam: \_\_\_\_\_pounds milk, \_\_\_\_\_pounds fat.

2. Is her sire proved?\_\_\_\_\_

3. If so, what is average production of all his tested daughters? \_\_\_\_\_pounds milk, \_\_\_\_\_pounds fat.

4. Did you pay cash for this heifer?\_\_\_\_\_

5. If not, what did you do to pay for her?\_\_\_\_\_

6. What financial arrangement have you had with your parents regarding feed and other costs?\_\_\_\_\_

7. Briefly, what has been your feeding program—beginning as a calf on up to freshening time?\_\_\_\_\_

8. How many cows in your home herd?\_\_\_\_\_

9. Is the herd on test?\_\_\_\_\_

10. If so, what was the average production last year? \_\_\_\_\_pounds milk, \_\_\_\_\_pounds fat.

11. Regarding the type of your heifer at time of calving, what are her strong points?\_\_\_\_\_

What are her weakest points?\_\_\_\_\_

## INSTRUCTIONS FOR KEEPING THE PRODUCTION RECORD

(Read carefully)

The next section of your book (pages 4-17) is where you will keep the production and feed record on your dairy cow. You begin that record after your heifer freshens, using two pages for each year—that is, pages 4-5, 6-7, etc., go together. Start the record with the month in which the heifer freshens. However, the “record year” always starts in July and ends with the June test. Use the calendar-month basis, with the testing year starting July 1 and ending June 30. (If the herd on your farm is on D.H.I.A. where the centering-day system is used, follow the same monthly testing period for your own cow. Start the testing year with the July test. Your D.H.I.A. supervisor will explain the centering-day system to you.)

### Weigh and Test Once a Month

Your record is figured each month from the milk weight and test on the one day, the “testing day.” The month is your “testing period.” Fill out the columns in the record as explained below.

TESTING DAY—The day of the month on which the test is made.

NUMBER OF DAYS IN TESTING PERIOD—Number of days in the particular month.

DAYS IN MILK—The days in the current month during which the cow is producing. (The production record starts on the fourth day, counting the day of freshening as the first day. *Example:* Fresh on June 10; production record starts on June 13. “18 days in milk in June.”)

POUNDS OF MILK DAILY—Milk weights for the one day in *pounds and tenths-of-a-pound*.

YIELD DURING THE TESTING PERIOD covers five items:

POUNDS OF MILK—The total for the month.

TEST—Butterfat test for the current month.

POUNDS OF BUTTERFAT—Multiply the pounds of milk by percent test for the month.

PRICE—The price per hundredweight of whole milk you received for the month, or the price per pound of fat.

VALUE OF PRODUCT—The price times the amount of milk or fat.

FEED CONSUMED DURING THE MONTH covers all items under roughage or concentrates:

SUCCULENT ROUGHAGE—Pounds of silage fed during the month. Write in at the top the feeds fed, one in each column.

DRY ROUGHAGE—Hay, fodder, etc., fed during the month. Fill out the headings for the kind of hay, then record the pounds fed.

CONCENTRATES—Fill out the headings for the different kinds of grain and high protein concentrates used; record the pounds for each when fed separately. Where a grain mixture is fed, give the amount of each ingredient in the line below the table; also the crude protein percentage of the mixture.

DAYS ON PASTURE—Number of days on pasture during the month.

COST OF PASTURE—Pasture charge for the month.

COST OF ROUGHAGE—The value of all hay, silage, and pasture for the month.

COST OF GRAIN—The value of all grain fed for the month. (Figure the cost of homegrown grains and hay at the local market price. Figure silage as costing about  $\frac{1}{3}$  the cost of hay.)

TOTAL COST OF FEED—Total cost for roughage, pasture, and grain.

VALUE OF PRODUCT ABOVE COST OF FEED—Value of the product less the total feed cost.

VALUE OF PRODUCT BELOW COST OF FEED—When the feed cost is more than the income for a particular month, record the difference in this column.

“REMARKS”—Record breeding, freshening, and dry dates in this column, and note sickness or any unusual condition. (Butterfat tests may be made by the association cow tester, buttermaker, or yourself—if you’re keeping records as part of the work in your high school classes.)

### Other Information

SUMMARY FOR THE YEAR is covered in the box at the bottom of the lefthand page. Fill out the production summary (pounds of milk and butterfat), the feed cost per hundredweight of milk and per pound of butterfat, and the return for each dollar’s worth of feed fed. Fill out the other blanks on the two pages (Record of Any Calf Born and the questions) as the information becomes available.

## PRODUCTION AND FEED RECORD

MONTH TESTED	Testing day	Number of days in testing period	Days in milk	Pounds milk daily	YIELD DURING TESTING PERIOD					FEED CONSUMED				
					Pounds milk	Test	Pounds butterfat	Price { Milk Butterfat	Value of product		Succulent roughage		Dry roughage	
									\$	c.	lbs.	lbs.	lbs.	lbs.
JULY														
AUGUST														
Total to date	xxx													
SEPTEMBER														
Total to date	xxx													
OCTOBER														
Total to date	xxx													
NOVEMBER														
Total to date	xxx													
DECEMBER														
Total to date	xxx													
JANUARY														
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FEBRUARY														
Total to date	xxx													
MARCH														
Total to date	xxx													
APRIL														
Total to date	xxx													
MAY														
Total to date	xxx													
JUNE														
TOTAL FOR YEAR	xxx													

1. Is this cow tested in D.H.I.A.? \_\_\_\_\_ If not, explain how record was kept \_\_\_\_\_
2. What financial arrangement do you have with your parents regarding paying for feed, veterinarian bills, and the returns from milk and calf? \_\_\_\_\_

### SUMMARY FOR YEAR

Pounds milk.....	
Pounds butterfat.....	
Feed cost 100 pounds milk.....	
Feed cost 1 pound butterfat.....	
Return for \$1 expended for feed .....	
I now own ____cows ____yearlings ____heifer calves	

### RECORD OF CALF BORN DURING YEAR

Date of birth \_\_\_\_\_ Sex \_\_\_\_\_

Sire \_\_\_\_\_

Raised: Name of calf \_\_\_\_\_ Number \_\_\_\_\_

Sold: Date \_\_\_\_\_ To whom \_\_\_\_\_

Purpose \_\_\_\_\_ Selling price \_\_\_\_\_

Died: Date \_\_\_\_\_ Cause \_\_\_\_\_

FOR THE YEAR 19\_\_\_ AND 19\_\_\_

DURING MONTH				Days on pasture	Cost of pasture	Cost of roughage, including pasture		Cost of grain		Total cost of feed		Value of product above cost of feed		Value of product below cost of feed		REMARKS
Concentrates																
Grain mixture	lbs.	lbs.	lbs.			\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	

3. Grain mixture fed \_\_\_\_\_; percent crude protein \_\_\_\_\_.
4. Unit prices used for feed (per ton of hay or silage, per bushel of grain, per hundredweight of purchased feed) \_\_\_\_\_
5. Outline briefly your feeding and management program, how you have overcome any problems, and what your plans are for the future in your dairy project \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
6. If this animal is owned in partnership, what share interest do you have? \_\_\_\_\_
7. Official classification \_\_\_\_\_; date \_\_\_\_\_



## PRODUCTION AND FEED RECORD

MONTH TESTED	Testing day	Number of days in testing period	Days in milk	Pounds milk daily	YIELD DURING TESTING PERIOD					FEED CONSUMED				
					Pounds milk	Test	Pounds butterfat	Price { Milk Butterfat	Value of product		Succulent roughage		Dry roughage	
									\$	c.	lbs.	lbs.	lbs.	lbs.
JULY														
AUGUST														
Total to date	xxx													
SEPTEMBER														
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Total to date	xxx													
JUNE														
TOTAL FOR YEAR	xxx													

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### SUMMARY FOR YEAR

Pounds milk.....	
Pounds butterfat.....	
Feed cost 100 pounds milk.....	
Feed cost 1 pound butterfat.....	
Return for \$1 expended for feed.....	
I now own _____ cows _____ yearlings _____ heifer calves	

### RECORD OF CALF BORN DURING YEAR

Date of birth \_\_\_\_\_ Sex \_\_\_\_\_  
 Sire \_\_\_\_\_  
 Raised: Name of calf \_\_\_\_\_ Number \_\_\_\_\_  
 Sold: Date \_\_\_\_\_ To whom \_\_\_\_\_  
 Purpose \_\_\_\_\_ Selling price \_\_\_\_\_  
 Died: Date \_\_\_\_\_ Cause \_\_\_\_\_

FOR THE YEAR 19\_\_ AND 19\_\_

DURING MONTH				Days on pasture	Cost of pasture	Cost of roughage, including pasture		Cost of grain		Total cost of feed		Value of product above cost of feed		Value of product below cost of feed		REMARKS Breeding dates, and name and number of sire used Freshening dates Dry dates Weight when fresh Quality of roughage and pasture Sickness and injury
Concentrates						\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	
Grain mixture lbs.	lbs.	lbs.	lbs.													

3. Grain mixture fed \_\_\_\_\_; percent crude protein \_\_\_\_\_

4. Unit prices used for feed (per ton of hay or silage, per bushel of grain, per hundredweight of purchased feed) \_\_\_\_\_

5. Outline briefly your feeding and management program, how you have overcome any problems, and what your plans are for the future in your dairy project \_\_\_\_\_

6. If this animal is owned in partnership, what share interest do you have? \_\_\_\_\_

7. Official classification \_\_\_\_\_; date \_\_\_\_\_

## PRODUCTION AND FEED RECORD

MONTH TESTED	Testing day	Number of days in testing period	Days in milk	Pounds milk daily	YIELD DURING TESTING PERIOD					FEED CONSUMED				
					Pounds milk	Test	Pounds butterfat	Milk { Butterfat Price	Value of product		Succulent roughage		Dry roughage	
									\$	c.	lbs.	lbs.	lbs.	lbs.
JULY														
AUGUST														
Total to date	xxx													
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TOTAL FOR YEAR	xxx													

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### SUMMARY FOR YEAR

Pounds milk.....	
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Feed cost 100 pounds milk.....	
Feed cost 1 pound butterfat.....	
Return for \$1 expended for feed.....	
I now own _____cows _____yearlings _____heifer calves	

### RECORD OF CALF BORN DURING YEAR

Date of birth \_\_\_\_\_ Sex \_\_\_\_\_  
 Sire \_\_\_\_\_  
 Raised: Name of calf \_\_\_\_\_ Number \_\_\_\_\_  
 Sold: Date \_\_\_\_\_ To whom \_\_\_\_\_  
 Purpose \_\_\_\_\_ Selling price \_\_\_\_\_  
 Died: Date \_\_\_\_\_ Cause \_\_\_\_\_

FOR THE YEAR 19\_\_\_ AND 19\_\_\_

DURING MONTH				Days on pasture	Cost of pasture	Cost of roughage, including pasture		Cost of grain		Total cost of feed		Value of product above cost of feed		Value of product below cost of feed		REMARKS Breeding dates, and name and number of sire used Freshening dates Dry dates Weight when fresh Quality of roughage and pasture Sickness and injury
Concentrates						\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	
Grain mixture	lbs.	lbs.	lbs.													

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6. If this animal is owned in partnership, what share interest do you have? \_\_\_\_\_

7. Official classification \_\_\_\_\_; date \_\_\_\_\_

## PRODUCTION AND FEED RECORD

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Pounds butterfat.....	
Feed cost 100 pounds milk.....	
Feed cost 1 pound butterfat.....	
Return for \$1 expended for feed.....	
I now own _____cows _____yearlings _____heifer calves	

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Date of birth \_\_\_\_\_ Sex \_\_\_\_\_  
 Sire \_\_\_\_\_  
 Raised: Name of calf \_\_\_\_\_ Number \_\_\_\_\_  
 Sold: Date \_\_\_\_\_ To whom \_\_\_\_\_  
 Purpose \_\_\_\_\_ Selling price \_\_\_\_\_  
 Died: Date \_\_\_\_\_ Cause \_\_\_\_\_

FOR THE YEAR 19\_\_\_ AND 19\_\_\_

DURING MONTH				Days on pasture	Cost of pasture	Cost of roughage, including pasture		Cost of grain		Total cost of feed		Value of product above cost of feed		Value of product below cost of feed		REMARKS Breeding dates, and name and number of sire used Freshening dates Dry dates Weight when fresh Quality of roughage and pasture Sickness and injury
Concentrates						\$	c.	\$	c.	\$	c.	\$	c.	\$	c.	
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3. Grain mixture fed \_\_\_\_\_; percent crude protein \_\_\_\_\_

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\_\_\_\_\_

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6. If this animal is owned in partnership, what share interest do you have? \_\_\_\_\_

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## PRODUCTION AND FEED RECORD

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### SUMMARY FOR YEAR

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Purpose \_\_\_\_\_ Selling price \_\_\_\_\_

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**FOR THE YEAR 19\_\_\_\_ AND 19\_\_\_\_**

DURING MONTH				Days on pasture	Cost of pasture	Cost of roughage, including pasture		Cost of grain		Total cost of feed		Value of product above cost of feed		Value of product below cost of feed		REMARKS Breeding dates, and name and number of sire used Freshening dates Dry dates Weight when fresh Quality of roughage and pasture Sickness and injury
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6. If this animal is owned in partnership, what share interest do you have? \_\_\_\_\_
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## PRODUCTION AND FEED RECORD

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### SUMMARY FOR YEAR

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 Sire \_\_\_\_\_  
 Raised: Name of calf \_\_\_\_\_ Number \_\_\_\_\_  
 Sold: Date \_\_\_\_\_ To whom \_\_\_\_\_  
 Purpose \_\_\_\_\_ Selling price \_\_\_\_\_  
 Died: Date \_\_\_\_\_ Cause \_\_\_\_\_

## FOR THE YEAR 19\_\_ AND 19\_\_

DURING MONTH				Days on pasture	Cost of pasture	Cost of roughage, including pasture		Cost of grain		Total cost of feed		Value of product above cost of feed		Value of product below cost of feed		REMARKS Breeding dates, and name and number of sire used Freshening dates Dry dates Weight when fresh Quality of roughage and pasture Sickness and injury
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JULY														
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TOTAL FOR YEAR	xxx													

1. Is this cow tested in D.H.I.A.? \_\_\_\_\_ If not, explain how record was kept \_\_\_\_\_

2. What financial arrangement do you have with your parents regarding paying for feed, veterinarian bills, and the returns from milk and calf? \_\_\_\_\_

### SUMMARY FOR YEAR

Pounds milk.....	
Pounds butterfat.....	
Feed cost 100 pounds milk.....	
Feed cost 1 pound butterfat.....	
Return for \$1 expended for feed.....	
I now own _____cows _____yearlings _____heifer calves	

### RECORD OF CALF BORN DURING YEAR

Date of birth \_\_\_\_\_ Sex \_\_\_\_\_  
 Sire \_\_\_\_\_  
 Raised: Name of calf \_\_\_\_\_ Number \_\_\_\_\_  
 Sold: Date \_\_\_\_\_ To whom \_\_\_\_\_  
 Purpose \_\_\_\_\_ Selling price \_\_\_\_\_  
 Died: Date \_\_\_\_\_ Cause \_\_\_\_\_

FOR THE YEAR 19\_\_ AND 19\_\_

DURING MONTH				Days on pasture	Cost of pasture	Cost of roughage, including pasture		Cost of grain		Total cost of feed		Value of product above cost of feed		Value of product below cost of feed		REMARKS Breeding dates, and name and number of sire used Freshening dates Dry dates Weight when fresh Quality of roughage and pasture Sickness and injury		
Concentrates						Grain mixture	\$	c.	\$	c.	\$	c.	\$	c.	\$		c.	
lbs.	lbs.	lbs.	lbs.															

3. Grain mixture fed \_\_\_\_\_; percent crude protein \_\_\_\_\_
4. Unit prices used for feed (per ton of hay or silage, per bushel of grain, per hundredweight of purchased feed) \_\_\_\_\_  
\_\_\_\_\_
5. Outline briefly your feeding and management program, how you have overcome any problems, and what your plans are for the future in your dairy project \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
6. If this animal is owned in partnership, what share interest do you have? \_\_\_\_\_
7. Official classification \_\_\_\_\_; date \_\_\_\_\_

## ANNUAL PROJECT SUMMARY

Summarize your project for the year on this page. Use the first column for the first year that the heifer freshens, and the following columns for each succeeding year.

	Year ending 6/30/	Year ending 6/30/	Year ending 6/30/	Year ending 6/30/	Year ending 6/30/	Year ending 6/30/	Year ending 6/30/
Date fresh .....							
Weight when fresh .....							
Days on test .....							
Days in milk .....							
Days dry .....							
Annual production—Milk .....							
Annual production—Fat .....							
Sex of calf .....							
Name of calf (female) .....							
Disposal of calf .....							
<hr/>							
RECEIPTS :							
Value of calf at birth .....							
Value of milk produced .....							
Prize money received .....							
Value of cow at end of year .....							
Total Receipts and Closing Value .....							
<hr/>							
EXPENSES :							
Value of cow at beginning of year .....							
Cost of feed fed .....							
Other cash costs .....							
Total Cost and Beginning Value .....							
<hr/>							
Net Gain or Loss During Year .....							

## PRODUCTION SUMMARY—LACTATION BASIS

Report here the total production for each lactation as completed. Each lactation starts at freshening and closes when the cow dries off. The number of days in milk and the production for the entire lactation should be listed under Total Production. If the lactation is more than 305 days, also enter the production for the first 305 days in the space provided. The mature equivalent, the percent of 500, and the production score *are not to be filled in by you*. Those will be calculated and entered when your record is scored.

Lactation (1st, 2nd, etc.)	Age (Yr.-Mo.)	Date fresh	Weight when fresh	Total production			First 305 days		Mature equivalent		Percent of 500	Production score
				Days in milk	Milk	Percent	Fat	Milk	Fat	Milk		
1												
2												
3												
4												
5												
6												
7												

## REPRODUCTION RECORD SUMMARY

Calving	Date of calving	Name and number of Sire	Sex of calf	Calf's name and eartag number	Remarks (Disposal, etc. Raised—Sold—Died)
1					
2					
3					
4					
5					
6					
7					



# PEDIGREE OF MY COW

**Sire** \_\_\_\_\_  
Name and Registration Number

Proving in D.H.I.A. or H.I.R.—

	Milk	Test	Fat
_____ Daughters	_____	_____	_____
_____ Daughters	_____	_____	_____
_____ Dams	_____	_____	_____
_____ Difference	_____	_____	_____

Classification of Daughters \_\_\_\_\_  
 \_\_\_\_\_

Other Information \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Name and Registration Number

Production of Daughters

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**Dam** \_\_\_\_\_  
Name and Registration Number

Classification \_\_\_\_\_

Production Records—

Age	Days in milk	Times milked	Milk (pounds)	Test (percent)	Fat (pounds)

Production of Daughters—

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