



4HDGR01

# DAIRY & DAIRY GOAT PROJECT RECORD



Name \_\_\_\_\_

Parent's Name \_\_\_\_\_

Mailing Address \_\_\_\_\_ Zip \_\_\_\_\_

Age \_\_\_\_\_ Jr. or Sr. \_\_\_\_\_ Month, Day, Year of Birth \_\_\_\_\_

Grade in School \_\_\_\_\_ Name of School \_\_\_\_\_

Name of 4-H Club \_\_\_\_\_

Name of 4-H Leader \_\_\_\_\_

Name of 4-H Agent \_\_\_\_\_

County \_\_\_\_\_

## Your 4-H Dairy Project

This project will help you learn about dairy animals--how to select for good type, and basic feeding, care and management techniques. You will also learn to teach other how to develop an outstanding project.

### Primary Objectives of the Dairy Project:

- Become aware of the scope and economics significance of the dairy industry.
- Acquire skills in dairy production through ownership and care of dairy animals.
- Learn marketing, processing, distribution, consumption, and use of dairy products.
- Learn and practice principles of cleanliness and sanitation as applied to the production and care of dairy products.
- Learn the nutritive value of dairy products and promote their use.
- Appreciate contributions and applications of scientific research to the dairy industry.
- Develop sportsmanship, cooperation, decision-making ability, and public speaking skills through participation in demonstrations, tours, judging, and/or exhibits.

### General Project Completion Guidelines

- Plan a project experiences using the Project Completion Guide. This should include: (A) Giving a project demonstration, (B) Performing 3 or more activities related to the member's selected dairy project, and (C) Taking part in the Dairy Advancement Program (optional).
- Have access to a dairy animal.
- Complete a project record book. **Juniors** should maintain a record of their experience within their selected dairy projects. **Seniors** should maintain a record on their project animals as well as a record of their experiences within their selected dairy projects.

Once you've completed your project, you will receive an attractive project completion certificate. Members who complete steps in the 4-H Dairy Advancement Program will receive special recognition. See the 4-H Dairy Member Advancement Program booklet for details.

## Items Required to Complete This Record

• Cover Sheet*	1
• Individual Animal Identification*	4
• Growth Record Graphs	5
• Growth Record Summary	7
• Beginning Inventory of Animals	8
• Beginning Equipment Inventory	9
• Veterinary and Health Expenses Record	10
• Breeding Record	11
• Feed Record	12
• Feed Record Summary	13
• Lactation Record	14
• Record of Show Receipts and Expenses	15
• Record of Other Expenses	16
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• Labor Record and Record of Animals sold	18
• Ending Inventory of Animals	19
• Ending Equipment Inventory	20
• Financial Summary	21
• Project Summary*	22-24
• Pictures of Your 4-H Project*	25
• Four - H Story*	26
• Advancement Program Record and Plans for Next Year	27

\*JUNIORS ARE REQUIRED TO COMPLETE ONLY THESE SECTIONS.

SENIORS ARE TO COMPLETE ALL SECTIONS OF THIS PROJECT RECORD EXCEPT THOSE LABELED "REQUIRED FOR JUNIORS TO COMPLETE ONLY".

**NOTE:** This Record Book is designed in a notebook format so that pages with limited space available for reporting multiple records can be easily photocopied.

**INDIVIDUAL ANIMAL IDENTIFICATION**

Breed \_\_\_\_\_ Birth Date \_\_\_\_\_ Tattoo \_\_\_\_\_

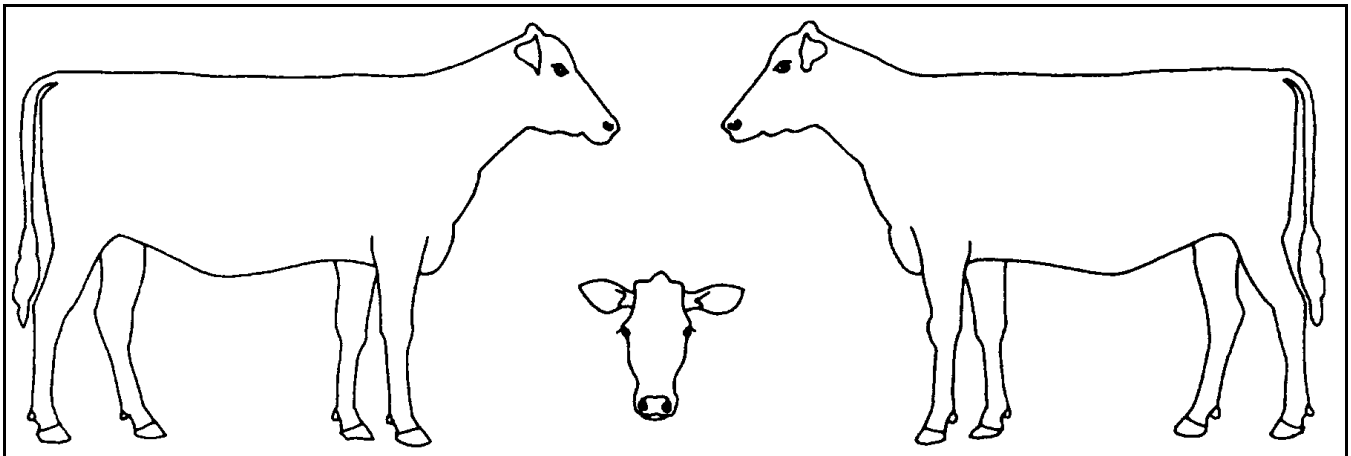
Name of Animal \_\_\_\_\_ Reg. No. If Applicable \_\_\_\_\_

Ear Tag \_\_\_\_\_ Date Required \_\_\_\_\_

Name of Breeder or Previous Owner \_\_\_\_\_

Address of Breeder or Previous Owner \_\_\_\_\_

**PICTURE OF DAIRY ANIMAL**



Use this space to sketch or include one picture of each side.

**PEDIGREE**

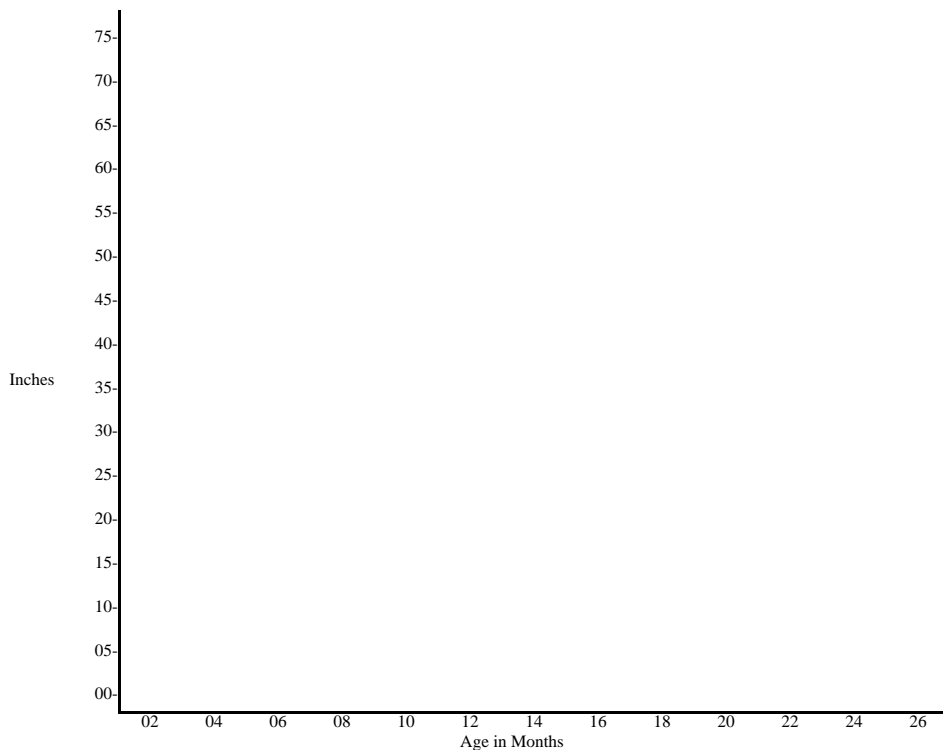
Complete as much as possible

Sire		Paternal Grandsire	Reg. No.
Name	Registration No. if applicable	Paternal Granddam	Reg. No.
Dam		Maternal Grandsire	Reg. No.
Name	Registration No. if applicable	Maternal Granddam	Reg. No.

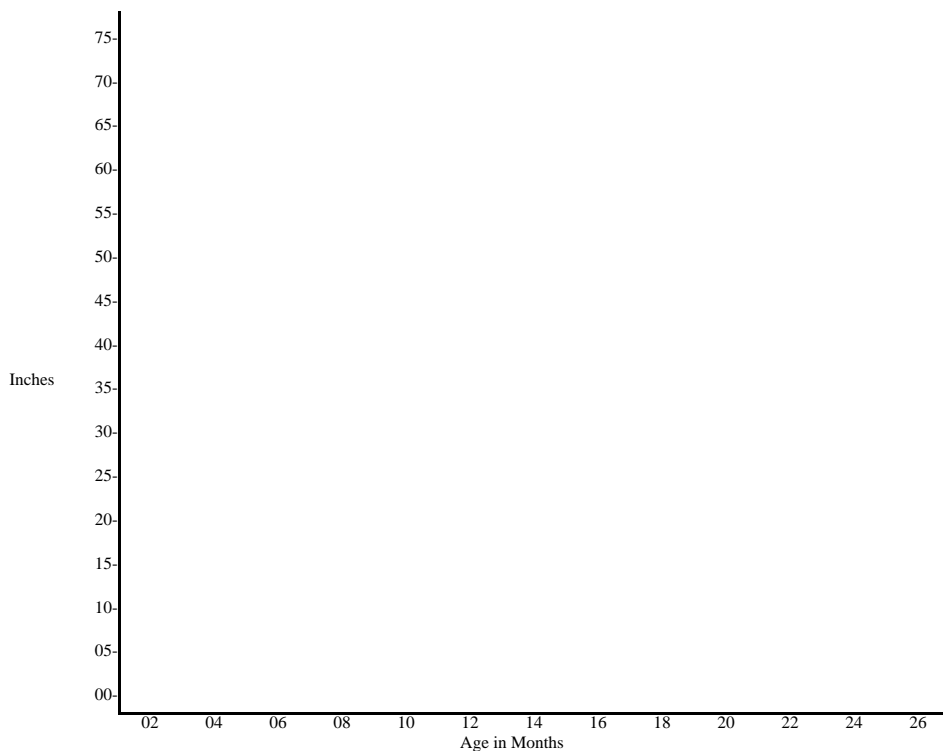
Note: If you have more than one dairy animal, you may photocopy as many animal identification pages you need to complete your record.

### GROWTH RECORD

HEART GIRTH



HEART AT WITHERS



1) Measure heart girth and height at withers of your animal at one month intervals.

2) Plot numbers on the charts (i.e. if your animal weighs 200 lbs. at two months, and is 40 inches in the heart girth, put a dot where two months and 40 inches meet.

3) Use this same procedure through to 18 months and then join the dots using straight lines.

4) Use different colored markers when putting more than one animal on a chart.

5) This growth record does not need to be completed on every animal, but once completed a few times, will teach you how to measure growth rate.

## TAPE WEIGHT TABLE FOR YOUNG GOATS

Heart Girth Inches	Pounds	Heart Girth Inches	Pounds
10 $\frac{3}{4}$	5	22 $\frac{1}{4}$	39
11 $\frac{3}{4}$	6	22 $\frac{3}{4}$	42
12 $\frac{3}{4}$	7	23 $\frac{1}{4}$	45
13 $\frac{3}{4}$	8	23 $\frac{3}{4}$	48
13 $\frac{3}{4}$	9	24 $\frac{1}{4}$	51
14 $\frac{1}{4}$	10	24 $\frac{3}{4}$	54
14 $\frac{3}{4}$	11	25 $\frac{1}{4}$	57
15 $\frac{1}{4}$	12	25 $\frac{3}{4}$	60
15 $\frac{3}{4}$	13	26 $\frac{1}{4}$	63
16 $\frac{1}{4}$	15	26 $\frac{3}{4}$	66
16 $\frac{3}{4}$	17	27 $\frac{1}{4}$	69
17 $\frac{1}{4}$	19	27 $\frac{3}{4}$	72
17 $\frac{3}{4}$	21	28 $\frac{1}{4}$	75
18 $\frac{1}{4}$	23	28 $\frac{3}{4}$	78
18 $\frac{3}{4}$	25	29 $\frac{1}{4}$	81
19 $\frac{1}{4}$	27	29 $\frac{3}{4}$	84
19 $\frac{3}{4}$	29	30 $\frac{1}{4}$	87
20 $\frac{1}{4}$	31	30 $\frac{3}{4}$	90
20 $\frac{3}{4}$	33	31 $\frac{1}{4}$	93
21 $\frac{1}{4}$	35	31 $\frac{3}{4}$	97
21 $\frac{3}{4}$	37	32 $\frac{1}{4}$	101

## HEART GIRTH MEASUREMENT AND WEIGHT FOR DAIRY CATTLE

Holstein and Brown Swiss		Guernsey and Ayrshire		Jersey	
Heart Girth (Inches)	Weight (Pounds)	Heart Girth (Inches)	Weight (Pounds)	Heart Girth (Inches)	Weight (Pounds)
31	96	27	69	26	53
32	104	29	77	27	57
34	125	31	91	29	69
35	136	32	100	30	77
37	163	34	124	31	87
38	177	35	136	32	98
40	209	36	150	33	110
42	243	38	177	35	136
44	278	40	208	37	163
45	297	41	223	39	192
47	335	43	257	41	222
48	356	44	273	42	238
50	396	46	307	44	269
51	420	47	327	45	286
53	463	49	365	47	319
54	487	50	384	48	336
55	510	51	405	50	372
56	535	52	426	51	393
57	562	53	449	52	413
59	614	55	495	53	433
61	670	56	514	55	480
62	697	57	546	56	504
63	730	59	599	57	531
64	761	60	625	58	555
65	792	61	655	59	589
66	830	62	685	60	615
67	861	63	717	61	640
69	930	64	748	62	671
70	965	65	780	63	705
71	1003	66	815	64	736
72	1041	67	849	65	770
73	1080	68	882	66	804
74	1121	69	917		
75	1158	70	949		

**GROWTH RECORDS SUMMARY**

FIRST DAIRY ANIMAL				SECOND DAIRY ANIMAL			
Age in Months	Lbs.	Height At Withers	Heart Girth	Age in Months	Lbs.	Height At Withers	Heart Girth
1.				1.			
2.				2.			
3.				3.			
4.				4.			
5.				5.			
6.				6.			
7.				7.			
8.				8.			
9.				9.			
10.				10.			
11.				11.			
12.				12.			
13.				13.			
14.				14.			
15.				15.			
16.				16.			
17.				17.			
18.				18.			
19.				19.			
20.				20.			
21.				21.			
22.				22.			
23.				23.			
24.				24.			
25.				25.			
26.				26.			

### BEGINNING INVENTORY

Beginning Inventory of Animals in the Project

NAME OR NUMBER OF ANIMALS	SEX	BIRTHDATE	BREED	BIRTH WT. OR WT. AT PURCHASE (LBS.)	VALUE AT THE START OF THIS RECORD
					\$

\*Include a summary of all the animals in your herd when the project started.

(Expenses Value 1) Total Value of  
Animals at Beginning of Project

\$ \_\_\_\_\_







**BREEDING RECORD**

SERVICE SIRE			FEMALE BRED				DESCRIPTION OF BREEDING SUPPLIES	BREEDING FEE
BREED	NAME	REG. NO.	BREED	NAME	REG. NO.	DATE BRED		
								\$

Note: The gestation length of goats is about 150 days and the gestation length of cows is about 280 days.

(Expenses Value 5)

Total \$ \_\_\_\_\_



**FEED RECORD SUMMARY**

<b>FEED</b>	<b>YEARLY COST TOTAL</b>	<b>PRICES USED PER LB. FEED</b>
Milk or replacer	\$_____	\$_____
Concentrate Mix	\$_____	\$_____
Hay	\$_____	\$_____
Other Feed	\$_____	\$_____
 TOTAL FEED COST PER YEAR (EXPENSES VALUE 6)	 \$_____	

**DIRECTIONS FOR COMPLETING FEED RECORD**

1. **POUNDS OF FEED** - This value represents the pounds of feed consumed by one animal on the date the feed was weighed, multiplied by the number of days in the months (i.e. 5 lbs. of concentrate mix was consumed on 2-18-86)  
  
5 pounds x 28 days = 140 lbs. of concentrate consumed in February.
2. **VALUE OF FEED** - This figure represents the average total value of pounds of feed consumed per animal per month. (i.e. \$2.00 per lb. of concentrate mix) =====> 2 x 140 lbs. = \$280.00
3. **DATE FEED WEIGHED** - Select a random day each month to weigh the pounds of the different types of feed consumed by your project animal. Record this date in the appropriate column.
4. **APPEARANCE OF ANIMAL** - E = EXCELLENT, G = GOOD, F = FAIR, P = POOR
5. **YEARLY TOTAL** - This figure represents the sum of the columns of lbs. of feed consumed per month, and the value of the feed consumed per month.
6. **PRICES USED PER POUND OF FEED** - This figure should represent the price per pound of feed used when calculating the value of each feed ingredient (i.e. \$2.00 per pound was the value used in this example).









**PROGENY RECORD**

ANIMAL NAME OR NO.	FRESHENING DATE	NO. MALE	NO. FEMALE	TATTOO	NAME(S)	REMARKS

**LABOR RECORD  
(In Hours)**

MONTH	FITTING GROOMING	SHOWMANSHIP	FEEDING	HEALTH/ BREEDING	MILKING	MAINT.	TOTAL
Total							

Comment concerning labor arrangements \_\_\_\_\_

1. Record time spent on dairy project.
2. If project animals are milked, fed, etc, by farm labor, or other family members, estimate what % of total labor was provided by other people.

**ANIMALS SOLD**

DATE	NAME OR NO. OF ANIMALS SOLD	AMOUNT RECEIVED
		\$

(Receipts Value 6)  
Total Received \$ \_\_\_\_\_

**INVENTORY OF ANIMALS ON HAND AT END OF PROJECT**

NAME OR NUMBER OF ANIMALS	SEX	BIRTHDATE	WEIGHT (LBS.)	(CHECK ONE)			VALUE AT END OF PROJECT*
				ORIGINAL ANIMALS	RAISED	PURCHASE D	
							\$

\*INCLUDE DEPRECIATION

(Receipts Value 1)  
 Value of Animals on hand  
 \$ \_\_\_\_\_

**EQUIPMENT ON HAND AT END OF PROJECT**

EQUIPMENT DESCRIPTION	NUMBER PURCHASED	PRESENT VALUE
BRUSHES		\$
BUCKETS		
HALTERS		

Consider depreciation or appreciation of equipment where possible.

Example: A halter costs \$10.00 new and lasts for 10 years at which time it is worn out.

$$\text{Depreciation per year} = \frac{\text{original cost}}{\# \text{ OF USEFUL YRS.}} = \frac{10.00}{10} = \$1.00$$

Subtract \$1.00 for each year the halter is used. A halter which is 5 years old is worth \$5.00.

(Receipts Value 2)

\$ \_\_\_\_\_

(Receipts Value 3)

\$ \_\_\_\_\_

**FINANCIAL SUMMARY**

Expenses

(Expenses Value 3) Total Beginning Inventory . . . . .	(Sum of Expenses Value 1 & 2)	\$ _____
(Expenses Value 4) Veterinary and Health Costs . . . . .		\$ _____
(Expenses Value 5) Breeding Fees . . . . .		\$ _____
(Expenses Value 6) Feed Costs . . . . .		\$ _____
(Expenses Value 7) Cost of DHI Testing . . . . .		\$ _____
(Expenses Value 8) Show Costs . . . . .		\$ _____
(Expenses Value 9) Other Expenses . . . . .		\$ _____
	<b>TOTAL EXPENSES</b>	\$ _____

Receipts

(Receipt Value 1) Value of animals at end of project . . . . .	\$ _____
(Receipt Value 2) Value of equipment at end of project . . . . .	\$ _____
(Receipt Value 3) Total worth of ending inventory . . . . .	\$ _____
(Receipt Value 4) Show Premiums . . . . .	\$ _____
(Receipt Value 5) Value of Milk Produced . . . . .	\$ _____
(Receipt Value 6) Animals Sold . . . . .	\$ _____
	<b>TOTAL RECEIPTS</b>

**LABOR INCOME OR PROFIT**

TOTAL RECEIPTS - TOTAL EXPENSES = \$ \_\_\_\_\_

**PROJECT SUMMARY**

List the demonstrations, talks, exhibits, newspaper articles, tours, workshops, camps, judging events, and field trips that were a part of your dairy project experience.

DATE	ACTIVITY	LEVEL			NUMBER OF TIMES
		CLUB	COUNTY	DISTRICT	

List your citizenship and community service accomplishments with the dairy project.

DATE	ACTIVITIES AND EVENTS

List your leadership accomplishments in the dairy project.

DATE	RESPONSIBILITIES

List awards, trips, medals, and other recognition received in this project  
(REQUIRED FOR JUNIORS TO COMPLETE ONLY)

DATE	RESPONSIBILITIES

List things you learned in this project.

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List the things you did in your project. (REQUIRED FOR JUNIORS ONLY)

DATE	LIST ACTIVITIES PERFORMED OR ITEMS PRODUCED, PURCHASED, SOLD, ETC.	VALUE	EXPENSES	INCOME	PROFITS



### **PICTURES OF YOUR 4-H PROJECT**

If possible show -- the beginning of your project

-- work being done

-- your completed project

**YOUR 4-H STORY**

- 1. What 4-H work has meant to you.
- 2. What you have learned.
- 3. What safety practices you used in your project.
- 4. How you managed your project.
- 5. What you can do to improve your project next year.
- 6. About your trip to Congress or camp.
- 7. What you did to make the best better.
- 8. About any other 4-H experiences.

\*Juniors a minimum of 50 words.  
\*Seniors a minimum of 150 words.

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**Advanced Program Record**

Step Number or Name	Date Completed	Project Leader's Signature

**Plans for Next Year**

Indicate the areas where you will be striving to increase your project skills and life skills:

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Selecting and Judging | <input type="checkbox"/> Fitting and Showing       | <input type="checkbox"/> Decision Making |
| <input type="checkbox"/> Management            | <input type="checkbox"/> Reproduction and Genetics | <input type="checkbox"/> Leadership      |
| <input type="checkbox"/> Health                | <input type="checkbox"/> Careers                   | <input type="checkbox"/> Public Speaking |
| <input type="checkbox"/> Feeds and Feeding     | <input type="checkbox"/> Computers                 | <input type="checkbox"/> _____           |

Specific topics you plan to explore: \_\_\_\_\_

I plan to complete step \_\_\_\_\_ of the 4-H Dairy Advancement Program next year.

**Project Review and Comment**

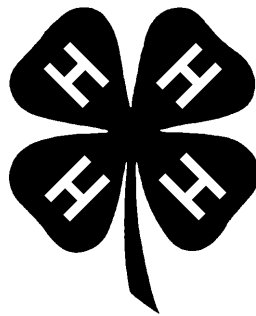
\_\_\_\_\_ has completed his/her records and I have reviewed them with him/her.

(name of member)

Comments by project leader or club leader: \_\_\_\_\_

Date: \_\_\_\_\_ Signed \_\_\_\_\_

4-H project or club leader



1. This document is 4HDAR01 (which supersedes 4-H 232), one of a series of the Florida 4-H Youth Development Program, Florida Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida. Printed November 1990; reviewed January 2009. Please visit the EDIS website at <http://edis.ifas.ufl.edu>.
2. Sandy Costello, Extension Associate--Dairy Science, B. Harris Jr., Ph.D., Prof. Nutr, Dairy Science, Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida, Gainesville, 32611.

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