



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 |
| • Progeny Record | 17 |
| • 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 |

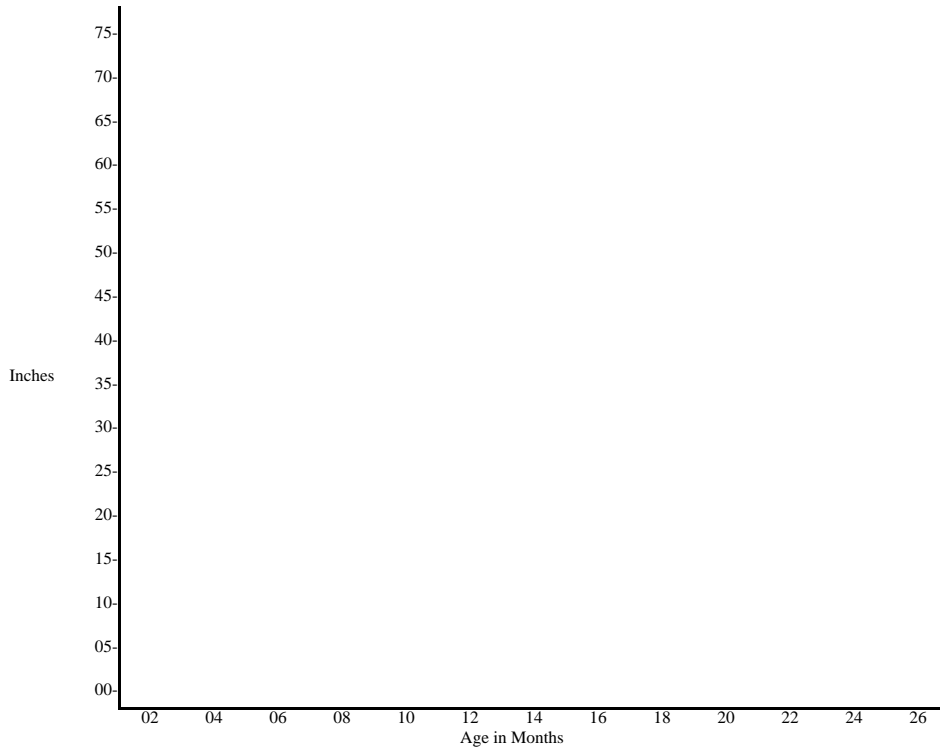
*JUNIORS ARE REQUIRED TO COMPLETE ONLY THESE SECTIONS.

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

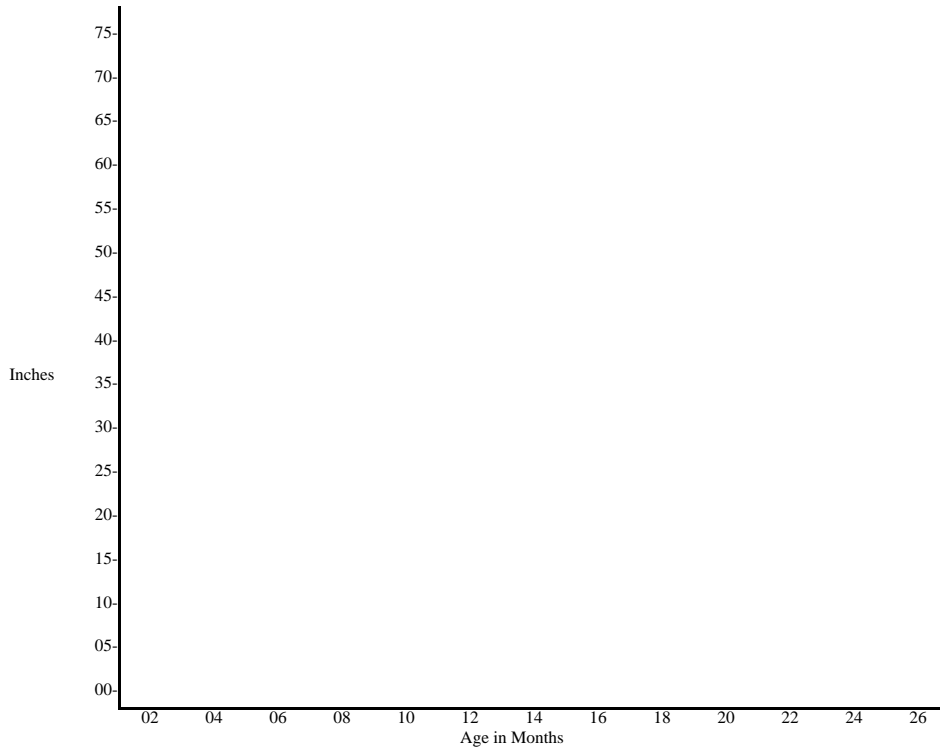
NOTE: This Record Book is designed in a notebook format so that pages with limited space available for reporting multiple records can be easily photocopied.

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

BREEDING RECORD

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

| FEED | YEARLY COST TOTAL | PRICES USED PER LB. FEED |
|-------------------------------------------------------|--------------------------|---------------------------------|
| 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).

**LABOR RECORD
(In Hours)**

| MONTH | FITTING GROOMING | SHOWMANSHIP | FEEDING | HEALTH/ BREEDING | MILKING | MAINT. | TOTAL |
|-------|---------------------|-------------|---------|---------------------|---------|--------|-------|
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| | | | | | | | |
| 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 | |
| | | | | | | | \$ |
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*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 | | |
| | | |
| | | |
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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 | \$ _____ |
| TOTAL EXPENSES | \$ _____ |

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 | \$ _____ |
| TOTAL RECEIPTS | \$ _____ |

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

| DATE | ACTIVITIES AND EVENTS |
|------|-----------------------|
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PICTURES OF YOUR 4-H PROJECT

If possible show -- the beginning of your project

-- work being done

-- your completed project

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:

- | | | |
|-----------------------------|---------------------------------|-----------------------|
| _____ Selecting and Judging | _____ Fitting and Showing | _____ Decision Making |
| _____ Management | _____ Reproduction and Genetics | _____ Leadership |
| _____ Health | _____ Careers | _____ Public Speaking |
| _____ Feeds and Feeding | _____ Computers | _____ _____ |

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.

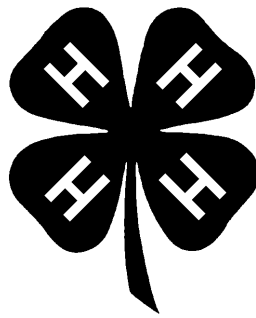
(name of member)

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 June 2002. Please visit the EDIS website at <http://edis.ifas.ufl.edu>.
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