



4-H Dairy Cattle Care and Feed Book



Circle One:	Junior	Intermediate	Senior
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Manatee County

Name _____ Age (September 1) _____

Club _____

Years in 4-H _____ Years in Project _____

I hereby certify that I have personally been responsible for the care of this/these animal(s), have personally kept records on this project, and have personally completed this Care and Feed Book.

Member Signature _____ Final Date _____ Initials for fair _____

I, the parents/guardian certify that my child has completed this Care and Feed Book, and I have reviewed it for completeness and accuracy of reporting.

Parent/Guardian Signature _____ Final Date _____ Initials for fair _____

I have reviewed this 4-H Care and Feed Book for completeness and accuracy of reporting.

Organizational Leader Signature _____ Final Date _____ Initials for fair _____

FOR USE AT THE MANATEE COUNTY FAIR AND AS THE 4-H PROJECT BOOK

Note: The Manatee County Fair requires that a Care and Feed Record Book (this book) is submitted for any project a youth submits a registration for at the Manatee County Fair. Even if the youth doesn't show at the fair or complete the project, they must still submit a Care and Feed Record Book. If you do not turn in a Care and Feed Record Book to the Fair, you may not participate in the next year's Manatee County Fair.

Purpose

The purpose of a 4-H Dairy Cattle project is:

- To become aware of the scope and economic significance of the dairy industry.
- To acquire skills in dairy production through ownership and the care of dairy animals.
- To 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.
- To understand the business aspects and economics of purchasing animals, feeds, facilities, and equipment for a dairy project.
- To develop integrity, sportsmanship, and cooperation.
- To develop leadership abilities, build character, and assume citizenship responsibilities.

4-H Dairy Cattle Care and Feed Book Guidelines:

It is suggested that a copy of the Care and Feed Book be made for use as a work copy. Records should then be transferred into this book for submission.

- Your Care and Feed Book should start with the **purchase date of your animal or September 1st of the current 4-H year (for ongoing project animals)**.
- Your Care and Feed Book should contain information relating only to your current dairy project animals. If you have more than one project animal you must identify which animal when completing the various sections of this record book. **Do not use ditto marks anywhere in this book.**
- Always double-check your math and have someone check your Project Essay for spelling and grammar before you write it in the final record book.
- **Your final Care and Feed Book must be hand written by the 4-H'er (Juniors may use pencil or pen (blue or black ink), Intermediates & Seniors must use pen (blue or black ink), however the Project Essay may be typed (on 8 ½ X 11, single-sided paper, in a 12-point font, double-spaced, by the 4-H member and inserted. If you type your essay or write it on a separate sheet of paper **DO NOT TAPE THE STORY TO THE PAGES, USE HOLE PUNCH AND INSERT THE PAGES.** Write a note on the first page of the essay section to **“SEE ATTACHED”**.**
- **Do not submit your Overall Story to the fair** with this book. **This story should ONLY be included in your 4-H Record Book that is submitted to 4-H for judging.** For more information, see the “How To of Putting Your 4-H Member Record Book Together”.
 - Junior members (age 8-10) Essay length is at least one (1) page.
 - Intermediate members (age 11-13) Essay length is at least two (2) pages.
 - Senior members (age 14-18) Essay length is at least three (3) pages.

I. PROJECT PLANS AND GOALS (Write answers in complete sentences)

These areas are to be filled in, signed and dated at the beginning of the project for full points.

What would you like to learn or accomplish this year? (Goals):

Member Signature: _____ Date: _____

What has your leader agreed to help you with this year?

Leader Signature: _____ Date: _____

How will your parent(s)/guardian(s) help you with this project?

Parent/Guardian Signature: _____ Date: _____

II. PROJECT INVENTORY * (must be completed by Fair Care & Feed Book check in)

List items you will keep past the end of this project on this page. List all equipment you had at the beginning of the project as well as those items you purchased this year. (Inventory examples include clippers, clipper blades, blowers, grooming chutes, collars, halters, feed pans/feeders, milking stand, brushes, buckets, tack, milking stands, etc.) **DO NOT** list expendable items such as shampoo. **Wear and tear occurs on equipment we use from year to year. These items will depreciate (go down in value) each year we use them. By listing the depreciated value you will have a more accurate value of your inventory at the end of the project.**

Complete columns pertaining to your age level (Jr., Int., Sr.)

Please refer to Project Terms and Explanation, page 30, for descriptions of each column.

Item Description	Date Acquired	Purchase Cost or Value	Value at beginning of current project year	Depreciation (10% of purchase cost)	Value at end of project
Jr. Int. & Sr. complete this section	Jr. Int. & Sr. complete this section	Jr. Int. & Sr. complete this section	Seniors only	Seniors Only	Seniors Only
Total Depreciation (Depreciation is an Expense)					
Value at End/Total Assets					

II. PROJECT INVENTORY Continued * (must be completed by Fair Care & Feed Book check in)

Item Description Jr. Int. & Sr. complete this section	Date Acquired Jr. Int. & Sr. complete this section	Purchase Cost or Value Jr. Int. & Sr. complete this section	Value at beginning of current project year Seniors only	Depreciation (10% of purchase cost) Seniors Only	Value at end of project Seniors Only
Total Depreciation (Depreciation is an Expense)					
Value at End/Total Assets					

Total Depreciation from page 4 _____
Total Depreciation from page 5 + _____
Total Depreciation = _____

Value at end/total assets page 4 _____
Value at end /total assets page 5 + _____
Total value of assets = _____

III. PROJECT ANIMAL INVENTORY * (must be up to date by Fair Care and Feed Book check in)

List all project animals you own at the beginning of the project and add animals you purchase or animals born during the project year. Animals sold should have a \$0 value at end of project on this page, and the income from their sale should be recorded under INCOME – ANIMALS SOLD (Page 13, Section IX).

****Beginning \$ Value:** Value of existing animals at beginning of project OR purchase cost of new animals OR value of animals born.

***Animals received as a gift should have \$0 beginning value and estimated value at the end.**

***Value at End of Project:** Your animal’s value should increase and is an estimated value.

If you need help determining the value at the end of the project consider contacting the breeder.

Animal Tag # or Tattoo #	Breed	Sex	Date Born	Date Acquired	** Beginning \$ Value or Purchase Price	* \$ Value at end of project	Indicate if animal sold, kept, died, returned
Value at Beginning							
Value at End/Value of Animal Assets							

IV. PEDIGREE – Complete as much as possible. If you have more than 4 animals, copy this page to add additional pedigrees * (must be completed by Fair Care and Feed Book check in)

Animal #1 – Name and Tag # _____

Sire	Paternal Grandsire	Reg. No.
Name	Reg. No.	Paternal Granddam
		Reg. No.

Dam	Maternal Grandsire	Reg. No.
Name	Reg. No.	Maternal Granddam
		Reg. No.

Animal #2 – Name and Tag # _____

Sire	Paternal Grandsire	Reg. No.
Name	Reg. No.	Paternal Granddam
		Reg. No.

Dam	Maternal Grandsire	Reg. No.
Name	Reg. No.	Maternal Granddam
		Reg. No.

Animal #3 – Name and Tag # _____

Sire	Paternal Grandsire	Reg. No.
Name	Reg. No.	Paternal Granddam
		Reg. No.

Dam	Maternal Grandsire	Reg. No.
Name	Reg. No.	Maternal Granddam
		Reg. No.

Animal #4 – Name and Tag # _____

Sire	Paternal Grandsire	Reg. No.
Name	Reg. No.	Paternal Granddam
		Reg. No.

Dam	Maternal Grandsire	Reg. No.
Name	Reg. No.	

V. NON-FEED EXPENSES * (must be completed by Fair Care and Feed Book check in)

List everything that you spent money on that you will **NOT** have at the end of the project or that you may run out of. This should **NOT** include feed or hay. This includes entry fees/Exhibitor fair pass, veterinary expenses (health papers), bedding, pure bred registration fees, breeding expenses, semen, pregnancy test fees, deworming items, hoof trimming, and other expendable items such as shampoo, printing of pictures, wipes, ink, etc. **Items that can be reused in the future (such as tools) should be listed on the Project Inventory page (page 4) only.**

Date	Description	Paid to	Total Cost
Total Non-Feed Expenses			

VI. FEED EXPENSES * (must be up to date by Fair Care and Feed Book check in)

List all feed and supplement expenses on pages 9 & 10. Each feed purchase should be listed separately or monthly. Be sure to always include the feed weight. **All hay expenses are to be recorded on page 11. Please total pages 9 & 10 at the bottom of page 10.**

***Youth that show leased animals should record the amount of feed consumed per month on this page. Ask owner for the amounts if needed. See page 31 for example.**

NO DITTO MARKS PLEASE

Date	Description	Paid To	Pounds	Total Cost
Page Total – Pounds of Feed				
Page Total – Feed Cost				

VI. FEED EXPENSES continued* (must be up to date by Fair Care and Feed Book check in)

List all feed and supplement expenses on pages 9 & 10. Each feed purchase should be listed separately or monthly. Be sure to always include the feed weight. **All hay expenses are to be recorded on page 11. Please total pages 9 & 10 at the bottom of page 10.**

***Youth that show leased animals should record the amount of feed consumed per month on this page. Ask owner for the amounts if needed. See page 31 for example.**

NO DITTO MARKS PLEASE

Date	Description	Paid To	Pounds	Total Cost
Page Total – Pounds of Feed				
Page Total – Feed Cost				

Total Pounds of Feed page 9 _____ **Total Feed Cost page 9** \$ _____
Total Pound of Feed page 10 _____ **Total Feed Cost page 10** \$ _____
Total Pounds of Feed = _____ **Total Feed Cost** = \$ _____

VII. HAY EXPENSES * (to be up to date by Fair Care and Feed Book check in)

List all hay expenses on this page. Each hay purchase should be listed separately or monthly.
(This is hay that is eaten, not used for bedding. Bedding is listed on page 8 under Non-Food expenses)

If the animal(s) were kept in a pasture for forage, record this as a note in this section. Do not forget to include the purchase of hay that was fed at the fair.

Date	Variety or Type	Paid To	Quantity # of bales	Total Cost
Page Total – Hay Cost				

IX. INCOME - ANIMAL(S) SOLD

() Check here if you did not sell your project animal. **If you have no income from this project, THEN ENTER ZERO.**

Date	Description (Breed, ID# if any)	Purchased by	Age	Total

Income from Sale of Animals \$ _____

X. OTHER INCOME – SHOW PREMIUMS

Other project income should be recorded here, such as show premiums (**ribbon money**) or other money earned. Keep in mind, every animal exhibited at the county fair receives monetary premiums that should be recorded in this section. Be sure to identify the animal. **If you have no other income from this project, THEN ENTER ZERO.**

Date	Description (Show/contest/demonstration/placing and or ribbon)	Total
	Total Other Income	

XI. SPONSOR INCOME

You should record any money given to you, to support your project, by sponsors, farmers or an individual here. Example: **Leased animals that the owner provides feed for at no expense to you.** Also, if someone buys feed or hay for your animal, or if someone else (a farm or an individual) pays for expenses. You should be able to ask what it costs per day per animal. Multiply the number of days by the cost per day to get a total. **See page 31 for example.**

IF NONE, ENTER ZERO.

Sponsor's Name	Total
Total Sponsor Income	

XII. CALVING RECORD * (to be up to date by Fair Care and Feed Book check in)

List all calves born to your project animal(s). Record the income received from the sale of any calves. If you kept the any calves, indicate "kept" **IF NONE, ENTER ZERO.**

Date Born	Calf Name	Sex	Dam Identification #	Sire/Reg. #	Sale Value of Calf (If not sold, also write "kept")

Income from Sale of Calves \$_____

XIII. MILK PRODUCTION RECORD * (must be up to date by Fair Care and Feed Book check in)

List the average monthly amount of milk produced (in pounds) by each animal. Record the income received from milk sales if you receive a milk check. **If your animal is housed at a dairy, contact that dairy for monthly production records. If you exchange milk for housing/care with the dairy, you should still record the milk produced but indicate below that you do not receive income from milk produced by your cow(s).** If your animals are not lactating enter zero.

	Animal # 1	Animal #2	Animal #3	Animal #4	Animal #5	Total
September						
October						
November						
December						
January						
February						
March						
April						
May						
June						
July						
August						
Yearly Total						

Income from Sale of Milk \$_____

I do not receive income for milk produced by my cow(s)_____ (√)

XIV. GROWTH AND DEVELOPMENT RECORD * (must be up to date by Fair Care and Feed Book check in)

1. Measure heart girth and height at withers of your animal at one month intervals.
2. Record this information in the tables on pages 16-17 for each animal.
3. Use the conversion table on page 18 to convert heart girth measurements into approximate weight measurements. Record these in the tables on pages 16-17.
4. Add a photo of each animal for identification purposes below each table.
5. Plot the height and weight for each animal on the charts on page 19 & 20. Use a different colored pencils for each animal when putting more than one animal on the chart. Be sure to label which color is which animal at the bottom of page 19 & 20.

Animal #1					Animal #2				
	Age in Months	Height at Withers	Heart Girth	Weight (pounds)		Age in Months	Height at Withers	Heart Girth	Weight (pounds)
Aug					Aug				
Sept					Sept				
Oct					Oct				
Nov					Nov				
Dec					Dec				
Jan					Jan				
Feb					Feb				
Mar					Mar				
Apr					Apr				
May					May				
June					June				
July					July				
Aug					Aug				

Place picture of animal one below

Place picture of animal two below

XIV. GROWTH AND DEVELOPMENT RECORD, Continued. (If you have more than 4 animals, copy this page to add additional Growth and Development Records)

Animal #3					Animal #4				
	Age in Months	Height at Withers	Heart Girth	Weight (pounds)		Age in Months	Height at Withers	Heart Girth	Weight (pounds)
Aug					Aug				
Sept					Sept				
Oct					Oct				
Nov					Nov				
Dec					Dec				
Jan					Jan				
Feb					Feb				
Mar					Mar				
Apr					Apr				
May					May				
June					June				
July					July				
Aug					Aug				

Place picture of animal one below

Place picture of animal two below

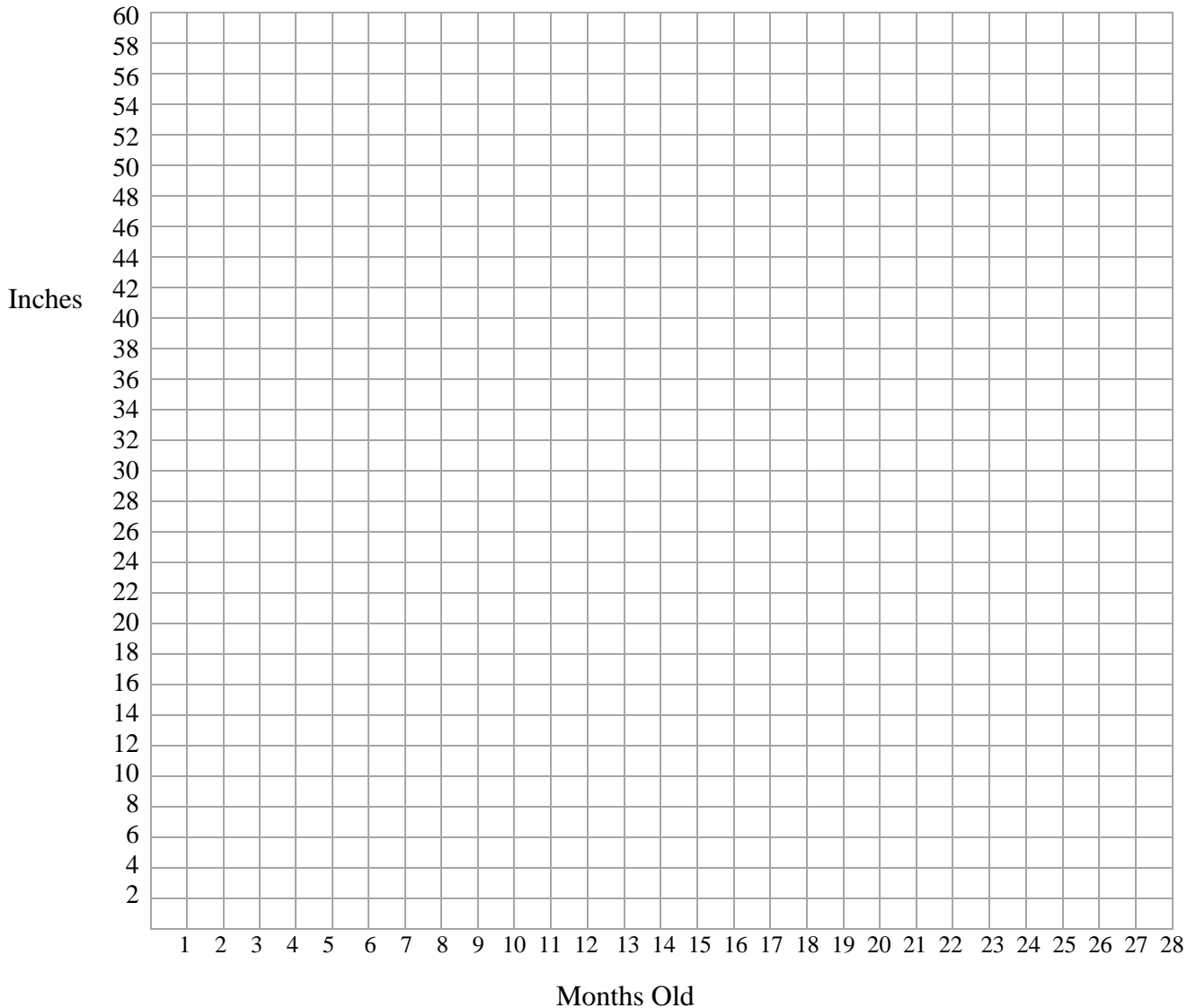
TAPE WEIGHT TABLE FOR DAIRY CATTLE

Holstein & Brown Swiss		Guernsey & 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		

XIV. GROWTH AND DEVELOPMENT RECORD, Continued *(must be up to date by Fair Care and Feed Book check in)

1. Plot the height measurements from pages 16-17 for each animal below. For example, if at the start of your project Animal # 1 was 2 months old and 30 inches tall, put a dot where 2 months and 30 inches meet.
2. Repeat the procedure for every month you measured your animal's height during your project.
3. Use a different colored pencil to represent each animal in your project.
4. **If any of your animals are older than 28 months, indicate this below the chart on this page.**

HEIGHT AT WITHERS



Animal # 1 Color: _____

Animal # 3 Color: _____

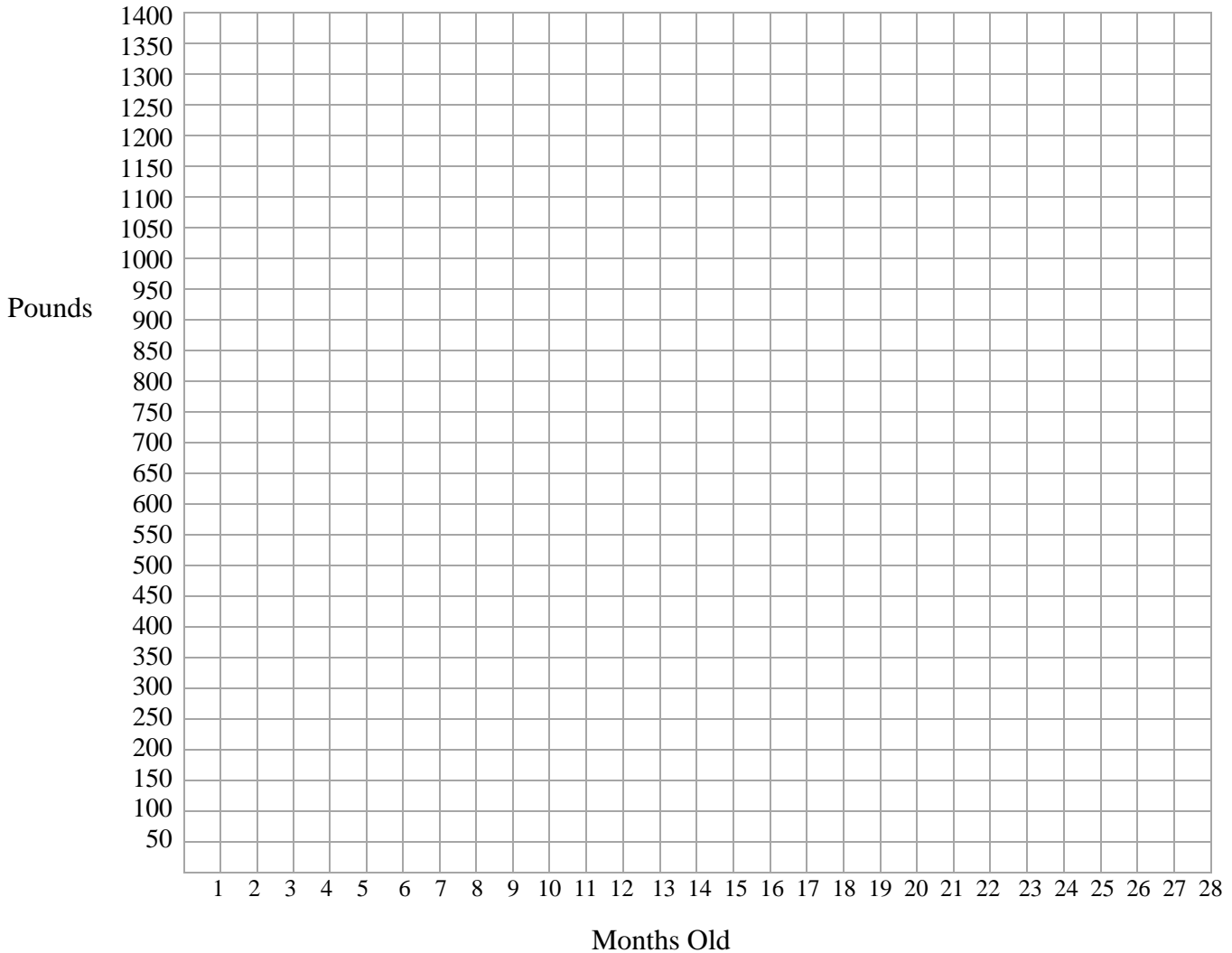
Animal # 2 Color: _____

Animal # 4 Color: _____

XIV. GROWTH AND DEVELOPMENT RECORD, Continued *(must be up to date by Fair Care and Feed Book check in)

1. Plot the weight measurements from pages 16-17 for each animal below. For example, if at the start of your project Animal # 1 was 6 months old and 400 pounds, put a dot where 6 months and 400 pounds meet.
2. Repeat the procedure for every month you measured your animal's weight during your project.
3. Use a different colored pencil to represent each animal in your project.
4. **If any of your animals are older than 28 months, indicate this below the chart on this page.**

WEIGHT



Animal # 1 Color: _____

Animal # 3 Color: _____

Animal # 2 Color: _____

Animal # 4 Color: _____

XVI. PROJECT FINANCIAL SUMMARY * (must be up to date by Fair Care and Feed Book check in)

If your project will continue past the County Fair fill in areas with an * in PENCIL for the fair check in then rewrite in PEN (if you are an Int. or Sr.) before you turn your book in to 4-H for judging.

INCOME		Section Total	Grand Total
1	Income – Animal Sold (<i>From page 13, Sec. IX</i>)		
2	Other Income – Show Premiums & Receipts (<i>page 13, Sec. X</i>)		
3	Sponsor Income (<i>page 14, Sec. XI</i>)		
4 *	Calving/Kidding Record Sales (<i>page 14, Sec. XII</i>)		
5 *	Milk Sales (<i>page 15, Sec. XIII</i>)		
6	TOTAL INCOME (<i>Add Lines 1 + 2 + 3 + 4 + 5</i>)		
EXPENSES			
7 *	Total Depreciation (<i>page 5, Sec. II</i>) ONLY SENIORS COMPLETE THIS LINE		
8 *	Total Non-Feed Expenses (<i>page 8, Sec. V</i>)		
9 *	Total Feed Expenses (<i>page 9 & 10, Sec. VI</i>)		
10 *	Total Hay Expenses (<i>page 11, Sec. VII</i>)		
11 *	TOTAL EXPENSES (<i>Add Lines 7 + 8 + 9 + 10</i>)		
SUMMARY			
12	FINAL PROFIT/LOSS (<i>Subtract Line 11 from Line 6</i>)		
ASSETS			
13 *	Value of Project Assets (<i>page 4, Sec. II</i>) ONLY SENIORS COMPLETE THIS LINE		
14 *	Value of Animal Assets (<i>page 6, Sec. III</i>)		
15	Total Assets (<i>Add Lines 13 + 14</i>) ONLY SENIORS COMPLETE THIS LINE		

XVII. PICTURES OF YOUR PROJECT * (You should have at least half of your pictures by the Fair Record Book check in date)

Show your project from the beginning to the end along with different skills that you have learned. This should include a **minimum of 8 pictures**. Include a caption with each picture. Captions should be in complete sentences. The pictures and captions should compliment your project essay. Explain what you are doing and why you are doing the things shown in the picture. What skills are you demonstrating and why? **Limit the number of pictures of you just posing with your animal without you demonstrating something to (2) pictures.** Spelling and grammar are included in the judge's decision.

Do not cover up the directions.

Pictures (continued):

DO NOT ADD ADDITIONAL PAGES

Pictures (continued):

DO NOT ADD ADDITIONAL PAGES

PROJECT TERMS AND EXPLANATIONS

NOTES AND EXAMPLES FOR PROJECT INVENTORY (page 4)

- **Date Acquired** - List the date (mm/dd/yy) you obtained this item. On items older than one year, list only the year.
- **Purchase Cost or Value** - What did this item cost when you first got it? (If you did not purchase this item and it was given to you, what was its value?)
- **Value at Beginning of Project Year** – If you bought the item this 4-H project year, this number would be the same as the “Purchase Cost or Value”. If you had this item last project year, use the “Value at End of Project” from last year’s record book.
- **Depreciation of 10%** - Each year your items will “depreciate” (lose value) by 10% of the original purchase cost. For new items, estimate 10% depreciation even if you have had the item for less than a year (ex: purchased in November of the 4-H year and it is now January).
- **Value at the End of the Project** - This is the value at the beginning of the project year minus the depreciation.

Examples:

Items Description	Date Acquired	Purchase Cost or Value	Value at beginning of project year	Depreciation (10% of purchase cost)	Value at end of project
Rope	Purchased 4 years ago	\$10.00	(Value at end of last year’s project/had already depreciated 10% for 3 years) \$7.00	(\$10 x 0.10) \$1.00	(\$7 - \$1) \$6.00
Comb	Purchased 3 years ago	\$20.00	(Value at end of last year’s project/had already depreciated 10% for 2 years) \$16.00	(\$20 x 0.10) \$2.00	(\$16 - \$2) \$14.00
Brush	Purchased at the beginning of last year’s project	\$5.60	(Value at end of last year’s project/had already depreciated 10% for 1 year) \$5.04	(\$5.60 x 0.10) \$0.56	(\$5.04 - \$0.56) \$4.48
Bucket	Purchased this project year	\$9.10	(No Previous Depreciation) \$9.10	\$0.91	(\$9.10 - \$0.91) \$8.19
Total Depreciation*				\$4.47	
Value of Project Assets					\$32.67

*Depreciation is an expense

LEASED ANIMAL FEED AND RATION EXAMPLES

Prices and amounts of feed are ONLY examples. **Be sure to get accurate info for where the animal is leased from.**

FEED EXPENSES EXAMPLE

Date	Description	Paid To	Pounds	Total Cost
9-2-17	Dakin Heifer feed	C Dakin Dairy	150	\$30.00
9-4-17	Dakin Cow feed TMR	C Dakin Dairy	1800	\$202.50
10-4-17	Dakin Cow feed TMR	C Dakin Dairy	1860	\$209.25

RATION RECORD EXAMPLE

Date	Animal ID	Feed Name, & Nutrient Content	Amount Fed Pounds/Day
9-2-17	4652	Dakin Heifer feed	5
9-2-17	7296	Dakin TMR	60

SPONSOR INCOME EXAMPLE

Sponsor's Name	Total
Cameron Dakin Dairy Heifer Feed (Sept.-Jan.)	\$282.00
Cameron Dakin Dairy Production Cow Feed (Sept. – Jan.)	\$411.75
Cameron Dakin Dairy Hay (Sept. – Jan.)	\$78.00
Cameron Dakin Health and Vaccinations (Sept. – Jan)	\$56.00
Lease Fee if any	

SCORING SYSTEM

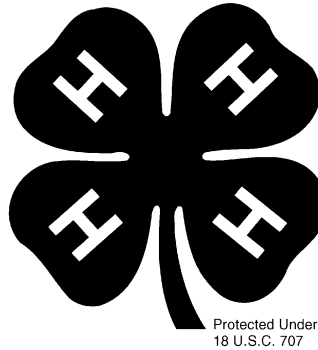
4-H Dairy Cattle Care and Feed Record Book

Section	Item	Points Possible
Title page & Summary page	All information completed	5
Properly Tabbed	All required sections of completed 4-H Record Book are tabbed and labeled (ie: Overall Story, Project book ...)	5
Care & Feed Cover Sheet	All information and signatures (Page 1)	5
I	Plans and Goals (Answered in complete sentences, signed and dated at beginning of project) (page 3)	10
II	Project Inventory (page 4 & 5)	10
III & IV	Project Animal Inventory (page 6), Pedigree (page 6 & 7)	8
V	Non-Feed Expenses (page 8)	8
VI, VII & VIII	Feed Expenses (pages 9 & 10), Hay Expenses (page 11) Ration Record (page 12)	10
IX, X & XI	Income Animal Sold & Other Income (page 13) Sponsor Income (page 14)	6
XII & XIII	Calving Record (page 14) Milk Production Record (page 15)	4
XIV	Growth & Development Record (pages 16-20)	6
XV	Health Record (pages 21)	6
XVI	Project Financial Summary (page 22)	10
XVII	Pictures (pages 23-25)	10
XVIII	Project Highlights (page 26)	6
XIX	Project Essay (pages 27-29)	40
Overall Story	Overall Story (This story is not found in this book it is part of the finished 4-H Record book)	45
	Overall Neatness, Accuracy, Grammar, & Spelling	6
	Total Points	200

Ribbon Awards

Blue	90% – 100%
Red	80% – 89%
White	79% – 0%

NOTES



References: Cahill, C. (July 1998). **4-H Dairy Care and Feed Record Book**. Palmetto, FL: Manatee County 4-H (Revised January 2004 by Diana L. Smith, Ph.D.).

Revised by Alexandra Draper, 4-H Youth Development Extension Agent, University of Florida/IFAS Extension - Manatee County, August 2022.

Costello, S. & Harris, B. Jr. (November 1990). **4-H DAR 01 Dairy & Dairy Goat Record**. Gainesville, FL: University of Florida/IFAS Extension.

Author Unknown. (Revised August 1, 2003). **Florida State Fair Youth Livestock Market Record Book**. Tampa, FL: Florida State Fair Authority.

Credits: A special thank you to Christa Kirby, Extension Livestock Agent, University of Florida/IFAS Extension - Manatee County; Lori Jorgensen and a team of dedicated Manatee County 4-H Volunteers for their diligent efforts in the revision process (2012) (2015) (2017) (2019) (2021)(2022).