



# 2010 Commercial Dairy Heifer Record Book

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Name:			Jr. (age 9-8th grade) Sr. (9-12 grade):	
Social Security No.:	Age:	Grade:	School Name:	
Address:				
City:		State:	Zip:	
Phone:		County		
Name of 4-H Club or FFA Chapter:		Years in 4-H or FFA:		

	Heifer #1	Heifer #2	Heifer #3
Heifer's Name:			
Heifer's Ear Tag or Tattoo Number:			
Breeder's Name and Address:			

4-H or FFA Member's Signature:
Parent or Guardian's Signature:
Agent's Signature (4-H): OR
Teacher's Signature (FFA):



**3. Other Costs:**

	<b>Heifer #1</b>	<b>Heifer #2</b>	<b>Heifer #3</b>
Cost or Value of Animal	F.	F.	F.
Minerals, Vitamins, Salt and Other Feeds Not Listed in Question 2	G.	G.	G.
Veterinary Costs -- Vaccines, dewormers, Lice Controls, Blood Work	H.	H.	H.
Entry Fees, Trucking, Show supplies, and Other Costs	I.	I.	I.
Total Costs (F+G+H+I)	J. \$	J. \$	J. \$
Total Feed and Other Costs (E+J)	K. \$	K. \$	K. \$

**4. Income:**

	<b>Heifer #1</b>	<b>Heifer #2</b>	<b>Heifer #3</b>
Prize Money Won With This Heifer	L.	L.	L.
Prize Money Won in Showmanship with this Heifer	M.	M.	M.
Total Income (L+M)	N. \$	N. \$	N. \$
Total Spent (K)	O. \$	O. \$	O. \$

**5. Performance Record:**

	<b>Heifer #1</b>	<b>Heifer #2</b>	<b>Heifer #3</b>
Total Weight Gain (from question 1)	P.	P.	P.
Total Days on Feed (from question 1)	Q.	Q.	Q.
Average Daily Gain (P / Q)	R.	R.	R.
Feed per pound of gain (D / P)	S.	S.	S.
Cost per pound of gain (E / P)	T.	T.	T.
Frame Growth (Final Withers height – Starting Withers Height)	U.	U.	U.

## SECTION II -- 20 Points

**6. Your Time with Your Project:**

	<b>Heifer #1</b>	<b>Heifer #2</b>	<b>Heifer #3</b>
Hours Spent General Care (Daily Feeding, Watering, etc.)	V.	V.	V.
Hours Spent Working with Animal/Practicing (Walking, Setting Up, etc.):	W.	W.	W.
Hours Spent Preparing for Show (Washing, Clipping, Combing, etc.):	X.	X.	X.
Hours Spent Elsewhere (Artificial Insemination, etc.)	Y.	Y.	Y.
Total Number of Hours Spent With Project (V+W+X+Y):	Z.	Z.	Z.

(a) Explain why protein and TDN content of a feed are important.

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Select one of your heifers and complete this section.

(b) What was the breed of your heifer? What advantages does this breed possess? What characteristics does this animal possess that made you select it?

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(c) If you could change anything about your heifer, what would you change to make her a better show animal?

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(d) When you show this animal how would you compensate for the above described faults?

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### SECTION III -- 20 POINTS

#### 7. Dairy Industry and Dairy Product Worksheet:

1. Name five breeds of dairy cattle. \_\_\_\_\_  
\_\_\_\_\_
2. Which breed produces milk with the highest total solids content? \_\_\_\_\_
3. Name five nutrient categories found in milk.  
\_\_\_\_\_
4. Name four dairy products made from milk.  
\_\_\_\_\_
5. What is the fat percentage of whole milk? \_\_\_\_\_
6. Which county produces the most milk in Georgia? \_\_\_\_\_
7. What is the primary function of the organization SUDIA? \_\_\_\_\_  
\_\_\_\_\_
8. What state in the lower 48 states has the highest average mailbox price? \_\_\_\_\_
9. How many calories are there in an 8 oz. glass of whole milk? Skim milk? \_\_\_\_\_
10. What is the slogan for the current dairy product promotion program? \_\_\_\_\_  
\_\_\_\_\_

11. According to the food guide pyramid, how many servings of milk and dairy products should a teenager consume daily? \_\_\_\_\_
12. Which nutrient in milk and dairy products helps to prevent osteoporosis? \_\_\_\_\_
13. What is milk protein called? \_\_\_\_\_
14. How much money do dairy producers contribute per hundred pounds of milk for promotional advertising? \_\_\_\_\_
15. What is the process called that kills harmful bacteria in milk? \_\_\_\_\_
16. What is the process called that breaks the fat globules and prevents them from rising to the top as cream?  
\_\_\_\_\_
17. What is the most popular breed of dairy cattle in Georgia? \_\_\_\_\_
18. What is the slogan for the current cheese advertisements? \_\_\_\_\_
19. What do the letters SUDIA stand for? \_\_\_\_\_

**SECTION IV -- 20 POINTS**

Write a story about your 2009-2010 Commercial Dairy Heifer Project, including this year's most significant experience. Juniors' (5-8 grade) stories should be a minimum of 1½ pages and Seniors' (9-12 grade) stories a minimum of 2½ pages. Any of the following outline may be used as a guide. (The outline is just a suggestion)

**SAMPLE STORY OUTLINE**

**I. Introduction**

- a. Tell what type, breed, weight, etc., of heifer you got, and why you chose a heifer as your project.
- b. Tell why you chose the heifer you did – cost, breed, breeder, past successes, etc.
- c. In choosing your dairy heifer, did you conduct any research, if so, explain.

**II. Body**

- a. Were there things you wish you had known prior to this project, if so, what were they?
- b. Day-to-Day Care: briefly describe what your daily care consisted of – where your heifer lived, feeding routine, exercise, etc. including some of the Good Production Practices you used in raising your heifer.
- c. What was your most significant experience? What did you learn about yourself and/or your heifer? Was there anything that surprised you about this project?

**III. Summary**

- a. What would you change or do the same the next time you begin a dairy heifer project? For example: different feed, different breed, age of heifer you would start with, etc.

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**Supporting Material (two pages only) 5 POINTS**

(Pictures-with caption, newspaper articles, etc., that support your Dairy Heifer project)

**Supporting Material (continued)**

## Instructions for Completing 2010 Commercial Dairy Heifers Record Books

**This record book is for Junior and Senior participants. Juniors must be age 9 before January 1, 2010 and must not have completed 8<sup>th</sup> grade, and Seniors are grades 9-12.**

1. All entries must be from bona-fide 4-H or FFA members for the current year. All commercial dairy heifers that have record books complete for must be entered in the 2010 State Commercial Dairy Heifer Show.
2. Record keeping is from the date of purchase until no earlier than February 1 and no later than February 17.
3. **For participants not attending the 2010 Georgia Junior Livestock Show, the Commercial Dairy Heifer Record Book must be received by Monday, February 8<sup>th</sup> to: Heather K. Shultz, Hoke Smith Annex #321, Athens, GA 30602 OR they may be delivered to the Roquemore Building, no later than 12:00 noon Thursday, February 18<sup>th</sup>.**
4. The record book is complete. No additional pages are allowed. Do not submit record books in notebooks or binders. You may use construction paper for the two Supporting Materials pages, but they must be 8 ½" X 11". Use only one side of the pages for your Support Materials.
5. All signatures must be obtained on the front of the record book.
6. Records must be hand written by the member.
7. Plagiarism is not allowed. If an entry is suspected of plagiarism it will be disqualified and ineligible for awards.
8. The top five Junior and Senior Record Books will be recognized at the Georgia Junior Livestock Award Banquet, Friday, February 19<sup>th</sup>. Additional awards may be awarded to selected placings once donor funds have been confirmed.

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