Dairy/Dairy Goat
Care and Feed Book

Circle One	Dairy	Dairy Goat	
Circle One:	Junior	Intermediate	Senior

<u>***NOT FOR 4-H MEMBERS***</u>

Name _____ Age (September 1) _____

Club_____

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 _____ Date _____ Initials for fair_____

I/We, the parents/guardian certify that our son/daughter has completed this Care and Feed Book and I/we have reviewed it for completeness and accuracy of reporting.

Parent/Guardian Signature _____ Date _____ Initials for fair_____

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

Organizational Leader Signature _____Date _____Initials for fair_____

FOR USE AT THE MANATEE COUNTY FAIR

Purpose

The purpose of a Dairy and Dairy Goat 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.

Dairy and Dairy Goat 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 record book may be filled out electronically with the provided PDF format or hand written.

- Record books are required to be completed by the exhibitor only.

- This document must be printed and submitted to fair personnel by the exhibitor at the time of final check-in.

- Your Care and Feed Book should start with the **purchase date of your animal or September 1st of the current school year (for ongoing project animals)**.

- Your Care and Feed Book should contain information relating only to your current dairy or dairy goat project animals. If you have more than one project animal you must identify which animal when completing the various sections of this record book.

- Always double-check your math and have someone check your project Essay for spelling and grammar before you write it in the final Care and Feed Book.

- **Junior members (age 8-10) Essay length is at least 1 page.**

- **Intermediate members (age 11-13) Essay length is at least 2 pages.**

- **Senior members (age 14-18) Essay length is at least 3 pages**.

I. PROJECT INVENTORY *(to be completed by Fair Care and 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, chutes, collars, halters, feed pans/feeders, milking stand, brushes, buckets, tack, etc.) **DO NOT** list expendable items such as shampoo. **Wear and tear occurs on equipment we use from year to tear. 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. (Jr., Int., Sr.)

Item Description Jr. Int. & Sr.	Year Acquired Jr. Int. & Sr.	Purchase Cost or Value Jr. Int. & Sr.	Depreciation (10% of purchase cost **Sr.**	Value at beginning of project **Sr.**	Value at end of Current project year **Sr.**
Total Depreciation (Depreciation is an Expense)					
Value at End/Total Assets					

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I. PROJECT INVENTORY-Continued* (to be completed by Fair Care and Feed Book check in)

Item Description Jr. Int. & Sr.	Year Acquired Jr. Int. & Sr.	Purchase Cost or Value Jr. Int. & Sr.	Depreciation (10% of purchase cost **Sr.**	Value at beginning of project **Sr.**	Value at end of Current project year **Sr.**
Total Depreciation (Depreciation is an Expense)					
Value at End/Total Assets					

Total Depreciation from page 3   _____
Total Depreciation from page 4   + _____
Total Depreciation   = _____

Value at end/total assets page 3   _____
Value at end /total assets page 4   +_____
Total value of assets   =_____

II. PROJECT ANIMAL INVENTORY *(to 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 purchased or animals born during the project year next. Animals sold should have a $0 value at end of project on this page and income is recorded under INCOME – ANIMALS SOLD.

**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.

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

III.   PEDIGREE – Complete as much as possible * (to be completed by Fair Care and Feed Book check in)

        Animal #1 - Name _____

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

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

III. PEDIGREE continued * (to be completed by Fair Care and Feed Book check in)

Animal #2 - Name _____

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 _____

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 _____

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 #5 - Name _____

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

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

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

List (non-feed expenses) everything that you spent money on that you will **NOT** have at the end of the project. This should NOT include feed or hay. This includes entry fees/Fair pass, veterinary expenses (health papers), bedding, pure bred registration fees, breeding expenses, semen, pregnancy test fees, deworming items, marketing costs (i.e. printing, stamps & envelopes) and other expendable items such as shampoo, printing of pictures, ink etc.

Date	Description	Paid to	Total Cost
Total Non-Feed Expenses			

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

List all feed and supplement expenses on pages 8 & 9. Each feed purchase including weight should be listed separately or monthly. **Youth that show Leased animals (Dairy Cattle or Dairy Goats) should record approximate amount of feed consumed per month on this page . See example on pg. 29**

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

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

List all feed and supplement expenses on pages 8 & 9. Each feed purchase including weight should be listed separately or monthly. **Youth that show Leased animals (Dairy Cattle or Dairy Goats) should record approximate amount of feed consumed per month on this page . See example on pg. 29**

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

Total Pounds of Feed page 8 _____   Total Feed Cost page 8 $ _____
Total Pound of Feed page 9   _____   Total Feed Cost page 9 $ _____
Total Pounds of Feed   = _____   Total Feed Cost   = _____

VI.   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 by month. If the animal was kept on pasture at home and no hay was need, please indicate that **BUT everyone will feed hay while at the fair so be sure to record those purchases here.**

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

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

Entries should be made at the beginning and any time you make a change in your animal's ration. If you change the amount of feed per day or add a supplement, enter that data. **Everyone should have at least two ration record entries**. **Please be sure to identify the animal.** If you do not make any changes in your ration pattern, indicate **"no changes made"**. List ration for leased animals here as well. **List all feed and supplement amounts on this page (list each change separately). See page 29 for example**

Date	Animal ID	Feed Name, & Nutrient Content	Amount Fed Pounds/Day

VIII. INCOME - ANIMAL(S) SOLD

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

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

Income from Sale of Animals $_____

IX.   OTHER INCOME – SHOW PREMIUMS AND RECEIPTS

Other project income should be recorded here, such as show premiums (**ribbon money**) or other money earned. **If you have no other income from this project, <u>THEN ENTER ZERO</u>**.

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

X.   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 29 for example**. **IF NONE, ENTER ZERO**.

Sponsor's Name	Total
Total Sponsor Income	

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

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

Date Born	Calf or Kid Name	Sex	Dam/Reg. #	Sire/Reg. #	Sale Value of Calf /Kid if not sold (Kept)

Income from Sale of Calves $_____

XII.   MILK PRODUCTION RECORD * (to 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. The measure for lactating dairy goats may vary but must be identified. 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_____ (√)

XIII. GROWTH AND DEVELOPMENT RECORD * (to 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. Plot numbers on the charts below. (If your animal weighs 200 pounds at two months and is 40" in the heart girth, put a dot where two months and 40" meet.)
3. Use this same procedure through to 18 months and then join the dots using straight lines.
4. Use different colored pencils when putting more than one animal on a chart.
5**. If your animal is older and does not fit the chart on page 16 indicate this on page 17, 18 or 19**

HEART GIRTH

	75														
	70														
	65														
	60														
	55														
	50														
Inches	45														
	40														
	35														
	30														
	25														
	20														
	15														
	10														
	05														
		02	04	06	08	10	12	14	16	18	20	22	24	26	28
								Age in Months							

HEIGHT AT WITHERS

	75														
	70														
	65														
	60														
	55														
	50														
Inches	45														
	40														
	35														
	30														
	25														
	20														
	15														
	10														
	05														
		02	04	06	08	10	12	14	16	18	20	22	24	26	28
								Age in Months							

Indicate what color pen or pencil you used for recording each animal on the chart above:

Animal #1 color_____   Animal #4 color_____

Animal #2 color_____   Animal #5 color_____

Animal #3 color_____

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XIII.   GROWTH AND DEVELOPMENT RECORD, continued

TAPE WEIGHT TABLE FOR YOUNG GOATS

Heart Girth (Inches)	Weight (Pounds)	Heart Girth (Inches)	Weight (Pounds)
10¾	5	22¼	39
11¾	6	22¾	42
12¾	7	23¼	45
13¼	8	23¾	48
13¾	9	24¼	51
14¼	10	24¾	54
14¾	11	25¼	57
15¼	12	25¾	60
15¾	13	26¼	63
16¼	15	26¾	66
16¾	17	27¼	69
17¼	19	27¾	72
17¾	21	28¼	75
18¼	23	28¾	78
18¾	25	29¼	81
19¼	27	29¾	84
19¾	29	30¼	87
20¼	31	30¾	90
20¾	33	31¼	93
21¼	35	31¾	97
21¾	37	32¼	101

HEART GIRTH MEASUREMENT AND WEIGHT 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		

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

	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				

Place picture of animal one below   **Place picture of animal two below**

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

	Third Dairy Animal					Fourth 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				

Place picture of animal three below   **Place picture of animal four below**

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

	Age in Months	Lbs.	Height at Withers	Heart Girth
Fifth Dairy Animal				
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

Place picture of animal five below

XIV. HEALTH AND VETERINARY RECORD * (to be up to date by Fair Care and Feed Book check in)

This should include a record of any health related activities (deworming, vaccination, dehorning, tattooing, hoof trimming or use of veterinarian's services for any reason such as health certificate). This should include what you used, how much you used, and what you used it for. **Be sure to identify the animal being treated.** Fill in all applicable information. **If your animal was healthy throughout project, please note but everyone should have a deworming and vaccination entry**.

Date	Animal	Description of activity	Product	Dosage	Withdrawal Time

XV. PROJECT FINANCIAL SUMMARY * (to 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 submit your completed book at the end of the project.

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

XVI.   PICTURES OF YOUR PROJECT * (You should have at least 5 pictures by the Fair Care and Feed Book check in)

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 and a maximum of 10 pictures**. Include a caption with each picture. 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 to (2) pictures.** Spelling and grammar are included in the judge's decision.

Do not cover up the directions.

Pictures (continued):

Pictures (continued):

XVII. PROJECT ESSAY * (to be up to date for the Fair Care and Feed Book check in)

Your essay may be written or typed. Your essay should be about your project from beginning to end. Be creative, use examples, use interesting facts or statistics, share your experiences, and build strong images by using descriptive words. **BE SURE TO REVISIT AND FINISH YOUR ESSAY AFTER THE FAIR and include what happened at the fair.** Your grammar, spelling and neatness will be evaluated.

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Essay continued:

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Essay continued:

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PROJECT TERMS AND EXPLANATIONS

NOTES AND EXAMPLES FOR PROJECT INVENTORY (page 3)

- **Project Year** - Current project year is the current school year**.**
- **Year acquired** - List the year you purchased /obtained the item.
- **Purchase cost or value** - What did this item cost when you purchased /obtained it? (Fair market value)
- **Depreciation of 10%** - This will be 10% of the original purchase price. $7.30 X .10 or (10%)= .73
- **Value at Beginning of Current Project Year**- If purchased in current year the value is the purchase price. If purchased in previous year(s): ie- 2016, there are 4 years from 2016-2019. Depreciate for 3 years to get beginning value for current year .73 X 3= $2.19 $7.30 - $2.19= $5.11 Beginning value of current year.
- **Value at the end of the project**- This is the value at the beginning of the project minus the depreciation. Depreciate for one additional year to equal the 4 years mentioned above. $5.11 - .73= $4.38 (Value at end of project)

Examples are done assuming the current year is 2019

Items Description	Year Acquired	Purchase Cost or Value	Depreciation (10% of purchase cost)	Value at beginning of current project year	Value at end of project
Rope	2016	$7.30	$.73	Depreciate for 3 years $5.11	Depreciate for 1 more year $4.38
Halter	2017	$19.60	$1.96	Depreciated for 2 years $15.68	Depreciate for 1 more year $13.72
Brush	2018	$5.85	$.59	Depreciated for 1 year $.59	Depreciated for 1 more year $5.26
Bucket	2019	$9.10	$.91	No Depreciation $9.10	Depreciate for this year $8.19
Total Depreciation*			$4.19		
Value of Project Assets					$31.55

*Depreciation is an expense

10% depreciation: $7.30 X .10or (10%) = .73

Value at the beginning of current year if the year is 2019:

    From 2016-2019 is 4 years, depreciate for 3 years to get value at beginning of current project year .

        .73 X 3=$2.19 $7.30-$2.19=$ 5.11(value at beginning of current project year)

        $5.11-.73= $4.38 (value at end of project)

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		

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.)	423.00
Cameron Dakin Dairy Hay (Sept. – Jan.)	78.00

SCORING SYSTEM

Dairy and Dairy Goat Care and Feed Record Book

Section	Item	Points Possible
Cover	Signatures	3
I	Project Inventory (page 3 & 4)	8
II & III	Project Animal Inventory (page 5) Pedigree (page 5 & 6)	5
IV	Non-Feed Expenses (page 7)	4
V, VI & VII	Feed Expenses(pages 8 & 9) Hay Expenses (page 10) Ration Record (page 11)	8
VIII, IX & X	Income Animal Sold & Other Income (page 12) Sponsor Income (page 13)	4
XI & XII	Calving Record (page 13) Milk Production Record (page 14)	3
XIII	Growth & Development Record (pages 15-19)	4
XIV	Health Record (pages 20)	5
XV	Project Financial Summary (page 21)	8
XVI	Pictures (pages 22-24)	8
XVII	Project Essay (pages 25-27)	30
	Neatness, Accuracy, Grammar, & Spelling	10
	Total Points	100

Ribbon Awards

Blue   90 - 100   pts.
Red   80 - 89   pts.
White   79 - 0   pts.

This document, **4-H Dairy and Dairy Goat Care and Feed Record Book**, was compiled by Diana L. Smith, Ph.D., Extension 4-H Coordinator, University of Florida/IFAS Extension - Manatee County, December 9, 2004, revised January 29, 2008, August 10, 2012, July 2015, August 2022.

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.).

    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.