

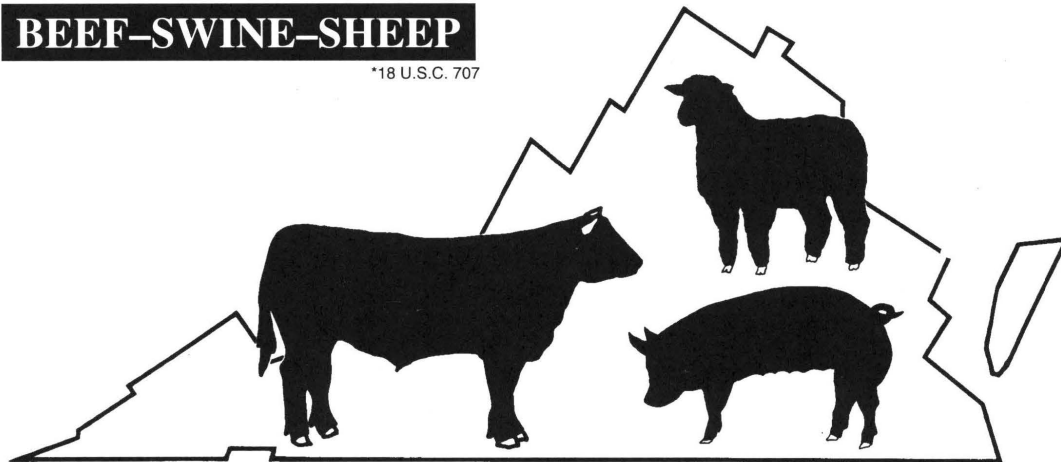
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ADVANCED 4-H LIVESTOCK RECORD BOOK BEEF-SWINE-SHEEP

*18 U.S.C. 707



My project is (check project taken)

BEEF

- Market Beef
- Breeding Heifer
- Cow-Calf

SHEEP

- Market Lamb
- Ewe Flock

SWINE

- Market Hog
- Breeding Gilt
- Feeder Pig

NAME _____ AGE _____ CLUB YEAR _____

ADDRESS _____

COUNTY OR CITY _____

NAME OF CLUB _____

NAME OF LEADER _____ YEARS IN 4-H _____

DATE PROJECT BEGAN _____

ENDED _____

PROJECT APPROVED BY (LEADER) _____

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VIRGINIA POLYTECHNIC INSTITUTE
AND STATE UNIVERSITY

Virginia Cooperative Extension
Knowledge for the Commonwealth



VIRGINIA STATE UNIVERSITY

Instructions for advanced livestock club members

Prepared by Mark L. Wahlberg, Extension Animal Scientist, 4-H, Virginia Tech

Good records are an essential part of any business. Your livestock project is a business enterprise. A good record will help you plan your project from year to year. It will show areas that need to be improved and items that were done correctly and will show whether you are doing better each year. It helps those who read your record to know your project and club work and see what progress you have made.

This record is designed for members over 11 years old who have completed two years in the beginning record. Beginners may use this record with approval of their leader.

1. Only one record book is needed for each project year. Please see the cover of this booklet for project categories.
2. All animals carried in a project should be recorded in this book.
3. The livestock record year starts October 1. If you have a breeding project, animals will be carried from one year to the next. The project year closes September 30. For market projects, this record begins when you purchase your animal and ends when it is sold or slaughtered.
4. Carcass information of market livestock should be obtained and recorded in this record.
5. You should keep past years' records for a project together, perhaps in a 3-ring notebook.

When you enter state or national achievement or record contests, you will need to refer to your past records. Keep news articles and programs from special events and meetings that concerned you, or you were involved with, and include them in your record book.

SPECIAL INSTRUCTIONS FOR BREEDING PROJECTS

Project records for breeding sheep are on page 10, and beef and swine are on page 11. If there is not enough space for your total herd or flock, then copy these pages and insert them in this book. You may have your herd or flock enrolled in a breed association or livestock improvement association computer program. If so, attach a copy of the computer printout in the records section of the breeding project.

Portions of this record are based on Record B-4
from the Idaho Cooperative Extension Service

PLANNING YOUR PROJECT

I plan to have _____ head of _____ as my project animals this year.

I will need the following to conduct this project:

	Amount (pounds)	Estimated Cost
Grain	_____	_____
Hay	_____	_____
Pasture	_____	_____
Supplement	_____	_____
Total Feed	_____	\$ _____

FOR MARKET PROJECTS ONLY

My animals should weigh _____ lb. when my project starts on _____ (date)
and should gain _____ lb./day to weigh _____ lb. (correct market weight) at show time.

I would like to accomplish the following with my project this year.

FINANCIAL ARRANGEMENT

Planning finances is essential to any business. Livestock producers often must borrow money to purchase livestock or feed. If you must borrow money, the interest charge (cost of using someone else's money) must be recorded as an expense for this project. Interest cost is figured by this formula:

$$\text{INTEREST COST} = \frac{\text{Amount borrowed} \times \text{interest rate (\%)} \times \text{Number of months borrowed}}{12}$$

Your financial arrangements should be recorded under numbers 1, 2 or 3 below. If you had no interest cost enter "0" in the TOTAL. Even if you used your own money or borrowed without having to pay interest, you should still calculate what you should have paid or what you could have earned in a bank account.

1. I had the following agreement with my parents: _____

or 2. I used my own money:

I used \$ _____ at _____ % interest for _____ months ÷ 12 = \$ _____ interest charge.

or 3. I borrowed \$ _____ from _____ (bank, business, or other sponsor) at _____ % interest for _____ months ÷ 12 = \$ _____ interest charge.

My total interest cost was..... \$ _____

INVENTORIES

The inventory is a statement of the amount, kind and value of livestock, equipment, and supplies which you have on hand either at the start of your year's project or at the end of the year. The items listed should be entered at their actual value. Do not list anything in the beginning inventory which you purchase after starting your records. Do not list anything in the closing inventory that you sell during the project year. It is recommended that you use either the 4H project year or the calendar year for your inventory dates. 4H year begins October 1 and ends September 30 of the next year, the calendar year begins January 1 and ends December 31. The calendar year is most often used for tax reporting.

INVENTORIES OF LIVESTOCK

BEGINNING			
Livestock you own on hand at the beginning of the project year Date _____			
NO. & Kind of Livestock	Age	Weight	Value
(example) 1 heifer, Hereford, Grade	1yr.	600	\$320
TOTALS	Number		\$

CLOSING		
Livestock you own on hand at the end of the project year Date _____		
NO. & Kind of Livestock	Weight	Value
(example) 1 heifer, Hereford, Grade	950	\$400
TOTALS	Number	\$

INVENTORY OF EQUIPMENT AND FEED

BEGINNING	
Equipment and feed on hand at the beginning of the project year	
Amount & Kind	Value
(example) 1 halter (leather)	\$12.00
TOTAL VALUE	\$

CLOSING	
Equipment and feed on hand at the end of the project year	
Amount & Kind	Value
(example) 1 halter (leather)	\$11.50
TOTAL VALUE	\$

PROJECT PHOTOGRAPHS

Attach photographs of your animals to additional pages and insert them in this project record book.

RECORD AT FAIRS AND SHOWS

Kind of exhibit	Name and Place of Fair or show	Date	No. in Class	Placing	Premiums
Total Value of Premiums Won					\$

NEW PURCHASES

Animals				Equipment	
Date col. 1	Number, breed, and/or sex col. 2 <small>(Include nothing already listed in beginning inventory, page 4)</small>	Cost col. 3	Date col. 4	Name or description col. 5	Cost col. 6
		\$			\$
Totals	Total Head	\$			\$

MONTHLY EXP

At the end of each month enter all expenses for that month under the proper column headings. Animals, equipment and feeds bought should be listed at what they actually cost. Charge farm prices (not retail prices) for home grown feeds including processing costs. Consult your parents, local leader or county agent for value of pasture, milk, etc. Feed costs may be determined by weighing daily feed fed about every 2 weeks and multiplying the average pounds fed daily by the number of

FORAGES				CONCENTRATES			
Date or Month	Pasture, Silage or Hay	Pounds, Tons, or Acres	Cost or Value	Date or Month	Grain, Supplements, Salt, Minerals, etc.	Amount	Cost or Value
Col.1	Col. 2	Col. 3	Col. 4	Col. 5	Col. 6	Col. 7	Col. 8
Total				Total			

INCOME

Enter all income from your project under the proper heading. Record the actual market price received.

ANIMALS SOLD FOR							
Date	Slaughter/Feeder				Breeding		Date
	Number of animals or names	Weight	Price per pound	Price rec'd	Number of animals or names	Price rec'd	
(col.16)	(col.17)	(col.18)	(col.19)	(col.20)	(col.21)	(col.22)	(col.23)
Totals	Total Head			\$	Total Head	\$	

EXPENSE RECORD

days in the month for the monthly total. Or, you may simply record feed as it is purchased by the hundred weight, ton, etc. A record sheet or calendar posted in or near the feeding area serves as a good way to record feed purchased and feed types and amount fed, which can be entered in your record book later.

CONCENTRATES				OTHER OPERATING COSTS		
Date or Month	Grain, Supplements, Salt, Minerals etc.	Amount	Cost or Value	Date	Breeding fees, veterinary medicines insecticides hauling, insurance rental on land, etc.	Cost
Col. 9	Col. 10	Col. 11	Col. 12	Col. 13	Col. 14	Col. 15
Total				Total		

RECORD

The value of animals or animal products used at home should be recorded at market value. A sheet may be added when your income exceeds the space allowed.

PRODUCTS SOLD				PRODUCTS USED AT HOME					
Meat, Milk, Wool, Hides, etc.				Date	Milk, Meat, etc.				
Kind	Amount	Price per unit	Price rec'd		Kind	Amount	Price per unit	Value	
(col.24)	(col.25)	(col.26)	(col.27)	(col.28)	(col.29)	(col.30)	(col.31)	(col.32)	
			\$					\$	

LIVE ANIMAL PERFORMANCE

Official feed period									
Animal name, tag, or identification no.	Breed	Sex	Date on	Date off	Days on	Initial weight	Final weight	Total wt. gain	Carcass wt. hot

PRODUCTION EFFICIENCY

All items below apply to Breeding project, while only 7 through 10 apply to Market Animal projects.

1. No. head bred _____	4. No. head marketed _____																					
2. No. head born _____	5. No. head breeding replacements kept _____																					
3. No. head weaned _____	6. No. head died _____	%loss _____																				
7. Ave. daily gain: _____ ÷ _____ = <div style="display: flex; justify-content: space-around; font-size: small;"> Total wt. gained Days on feed </div>		Market animal identification no. <table border="1" style="width: 100%; height: 100px;"> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>																				
8. Feed consumed per pound gained: _____ ÷ _____ = <div style="display: flex; justify-content: space-around; font-size: x-small;"> lb. feed consumed (total cols 7&11 p.6-7) lb. gained </div>																						
9. Feed cost per pound of gain: _____ ÷ _____ = <div style="display: flex; justify-content: space-around; font-size: x-small;"> feed cost (total cols 8&12 p.7) lb. gained </div>																						
10. Type of feed fed _____																						

ANIMAL HEALTH RECORD

This is a health record only. Expenses for drugs, treatments, and veterinarian services should be included on page 7 columns 13-15

Date	Tag no. of animal treated	Description of sickness	Treatment	Treated by whom

CARCASS INFORMATION

Cattle and Sheep (only)					Swine (only)							
Quality grade	Rib-eye sq. in.	Internal fat %	External fat thickness	Yield grade	Carcass wt.	Days of age	Loin eye area	Back fat	Length	Pounds of muscle per day on feed	Percent muscle	

FINANCIAL SUMMARY

INCOME: (Do not include ribbon premiums)

1. Total value of stock in hand at close of year (page 4) \$ _____
2. Total value of equipment and feed on hand at close of year (page 4) \$ _____
3. Total income from animals sold (page 6, col's. 20 and 22) \$ _____
4. Total income from products sold (page 7, col. 27) \$ _____
5. Total value of products used at home (page 7, col. 32) \$ _____
6. TOTAL INCOME (Total of lines 1-5) \$ _____

EXPENSES:

7. Total value of stock in hand at beginning of year (page 4)\$ _____
8. Total value of equipment and feed on hand at beginning of year (page 4)\$ _____
9. Total cost of new purchases (page 5, col's.3 and 6)\$ _____
10. Total cost of feed (pages 6 and 7, col. 4 ,8, 12)\$ _____
11. Total of other operating costs (page 7, col. 15)\$ _____
12. TOTAL EXPENSES (Total of lines 7-11)\$ _____
- Subtract: TOTAL INCOME (item 6)\$ _____
- TOTAL EXPENSES (item12)\$ _____
13. NET GAIN OR LOSS (circle one)\$ _____
(Excluding premium money received)
- Total Premiums received (from page 5)\$ _____

SHEEP BREEDING PROJECT RECORD*

RAM PERFORMANCE RECORD

Ram No.	Breed	Date Born	Type Birth (S, Tw, Tr)	120-Day Adj. Wt.	ADG on Test	Weight per Day of Age

Date ram(s) turned in with ewes _____

Date ewes due to begin lambing _____

EWE Flock No.	Year Born	Sire ID	BIRTH INFORMATION			120 DAY WEIGHT				Total Adj. Wt. Of Lambs	Fleece Wt.	Disposition**	
			Date Lambed	Lamb No.	Sex	Birth Weight	Date Weighed	Age in Days	Actual Weight			Adjusted 120 Day Wt.	Died

*Offspring born during the year should be added to page 5 (New Purchases). Beginning date for animals is birth date.

**If offspring is sold, record on page 6.

BEEF BREEDING PROJECT RECORD*

BULL PERFORMANCE RECORD

Bull No.	Breed	Date Born	205 Wt./Ratio	ADG on Test	365 Wt./Ratio		Expected Progeny Differences	
					Birth	Weaning	Yearling	Milk

Date AI breeding began _____

Date bull(s) turned in with cows _____

Date cows due to begin calving _____

Dam		Calf information														
Herd No.	Year Born	Sire ID	BIRTH			WEANING			YEARLING			DISPOSITION**				
			Birth Date	Sex	Birth Wt.	Date Weighed	Actual Wn Wt.	205 Day Wt./Ratio	Date Weighed	Actual Yr. Wt.	365 Day Wt./Ratio	Died	Kept	Sold		

SWINE BREEDING PROJECT RECORD*

DAM		LITTER INFORMATION										BOAR PERFORMANCE RECORD					
Herd No.	Year Born	Sire ID	Birth Date	Number Born		Litter Birth Weight	21-day Litter Weight	Number Weaned	Disposition**		Boar No.	Breed	Date Born	Litter Size	ADG on Test	Days to 230	Backfat Thickness
				Total	Dead				Alive Boars/Gilts	Died							

*Offspring born during the year should be added to page 5 (New Purchases). Beginning date for animals is birth date.

**If offspring is sold, record on page 6.

