



2019-2020 Market Animal Show Record Book

Species: (circle all that apply) Steer Hog Lamb Goat

Division: (circle your age division)

Junior (9-11 as of Sept.30, 2020)

Intermediate (12-13 as of Sept.30, 2020)

Senior (14-19 as of Sept.30, 2020)

Exhibitor Information

Name: _____

Birthdate: _____

Parents/Guardians: _____

4-H Club/FFA Chapter: _____

Club Leader/FFA Advisor _____

School: _____

**Steer, Lamb, and Hog record books are due Monday
May 11, 2020 at the Extension Office.**

**Goat record books are due Monday August 17, 2020
at the Extension Office.**

Why Keep Records?

By keeping records, you will be able to see how much progress you make this year and over the course of your 4-H career as you set goals and work to accomplish them.

Good records will:

- Help you learn about animals, their rate of growth, the feed they require, the cost of the feed they require and their habits.
- Increase understanding of your project's financial outcome.
- Assist you in gathering information to market your animal.
- Improve your management practices.
- Keep track of your project activities and learning experiences.
- Allow you to better plan for future livestock projects.

If you have questions or need help on this record book, please contact your leader, parent/guardian, agricultural educator, or extension office.

PLEASE PRINT OR WRITE CLEARLY.

Project Information

Submit ONE completed record book for each exhibitor.

This Year's Project Goals

What is one goal you have for yourself for this year's project?

If you participated in Market Animal show last year, what is an area you would like to improve on this year?

Please list three marketing strategies you plan to use this year:

- 1.)

- 2.)

- 3.)

Animal Information

Name and/or description of animal(s): _____

Breed(s): _____

Identification of animal(s) (Tattoo/Ear tag/Fair tag number):

TAG NUMBER	SPECIES	ESTIMATED BIRTH DATE	Bred & Owned Yes or No	Purchase Cost of Animal (For B&O find the fair market value)

Production Records, Calculations, or Project Knowledge

Health Record

This should include a record of any health related activities (de-worm, vaccinate, or use of veterinarian services for any other reason). This should include what you used, how much you used, and what you used it for. Include well animal care. Fill in all applicable information. **If animal is healthy throughout project, make note of that.**

Date	Description of Activity	Product Used	Dosage	Withdrawal Days

Monthly Feed Record

** Type of feed should be expressed in pounds, if you are including hay you can write the number of bales per month**

<u>Feed Types →</u>										
	<u>Pounds</u>	<u>Cost</u>	<u>Pounds</u>	<u>Cost</u>	<u>Pounds</u>	<u>Cost</u>	<u>Pounds</u>	<u>Cost</u>	<u>Monthly lbs.</u>	<u>Total Cost</u>
<u>Nov</u>										
<u>Dec.</u>										
<u>Jan.</u>										
<u>Feb.</u>										
<u>March</u>										
<u>April</u>										
<u>May</u>										
<u>TOTALS</u>										

Number of animals reflected on the chart: _____

Income

Species	Tag ID	Final Weight	Price per Pound	Premiums (located on page 21)	Other Income	Total Income
TOTAL INCOME						

Expenses

Species	Tag ID	Cost of Animal	Check Off, Commission, & Entry Fee (Located on Page 21)	Carcass Contest	Feed Cost	Vet/Health Cost	Other Cost	TOTAL Expenses
TOTAL EXPENSES								

NET PROFIT/LOSS

Species	Tag ID	Income – Expenses	Total
TOTAL Net Profit/Loss			

Average Daily Gain

Days on Feed for Steers – November 9, 2019 – April 29, 2020

Days on Feed for Lambs & Hogs – February 22, 2020 – April 29, 2020

****For Lambs & Hogs beginning weight just use an estimated weight of your animal on February 22, 2020****

Average Daily Gain (ADG): The average amount of weight an animal has gained each day for a given period of time that the animal has been on feed.

$$\text{ADG} = \text{End Weight} - \text{Beginning Weight} / \text{Days on Feed}$$

**** Example can be found on page 20****

Pick TWO of your animals and calculate their Average Daily Gain

Species: _____

Calculate

Tag ID: _____

Final Weight: _____

Beginning Weight: _____

Days on Feed: _____

Species: _____

Calculate

Tag ID: _____

Final Weight: _____

Beginning Weight: _____

Days on Feed: _____

Livestock Marketing

List five potential buyers you went and visited or sent letters to. Please attach one copy of a thank you note and one copy of your buyers letter.

1	Name of Business or Buyer: _____ Letter sent? Yes or No Date: _____ Visited? Yes or No Date: _____
2	Name of Business or Buyer: _____ Letter sent? Yes or No Date: _____ Visited? Yes or No Date: _____
3	Name of Business or Buyer: _____ Letter sent? Yes or No Date: _____ Visited? Yes or No Date: _____
4	Name of Business or Buyer: _____ Letter sent? Yes or No Date: _____ Visited? Yes or No Date: _____
5	Name of Business or Buyer: _____ Letter sent? Yes or No Date: _____ Visited? Yes or No Date: _____

Buyer Information

Please list the buyers who purchased your animals at the sale

Buyer	Tag Number & Species	Date Thank You Letter was Sent

Section 8: Production Records, Calculations or Project Knowledge

There are a number of templates and worksheets available at the end of this guide, plus additional resources online and from your local Extension office.

Junior Record Book- (pick one)

- Draw your species of animal and label parts
- Short report (5 - 10 sentences) about a breed of animal
- Pedigree diagram
- Feed tag with parts labeled
- Feeding record for your animal
- 5 pieces of equipment used with your animal and what they are used for
- Animal Health Care and Treatment plan

Intermediate Record Book- (pick one)

- Short report on a disease that may affect your animal. Include information of cause, symptoms and treatments.
- Drug Label identification: Provide a copy of a label from a medication you gave your animal and label the parts
- List five nutrients your animal needs and how you provided those nutrients
- Draw & Label your animal's digestive system
- Wholesale cuts of meat from your species. Include a labeled image. Not just an image printed from a website
- Market Animal or Breeding Animal production record
- Describe your marketing plan for your project
- Feed Conversion Calculation (show your work)
- Feed Cost per Pound of Gain Calculation (show your work)
- Estimated Carcass Weight *These are a few examples other age appropriate Record/Calculation/Project Knowledge topics are acceptable

Senior Record Book- (pick one)

- Feeding Economics worksheet
- List and photos of 10 retail cuts from your species and which wholesale cut they come from
- A description of your biosecurity plan for your farm/animal projects
- A description of your farm emergency plan
- EPD's - what are they and how you use them when making breeding decisions with your project animals
- Break-Even Cost Calculation for your project animals (show your work) and discussion on how your faired with your project animal
- Marketing plan for your project animals
- Breeding/Reproductive Record for your project animals
- Performance Ratio Calculation (show your work)

Section 8: Production Records, Calculations or Project Knowledge

If you need more space use additional sheet and attach to this page

Pick one of the topics above from your age division and complete it

Project Photos

**** you need to have a before and after pictures of your animals.****

Project Photos

Record Book Rubric

Total Amount you can receive	Description	Total points awarded
10 points	Page 3- This year's project goals	
15 points	Page 4 – Activities Page	
10 points	Page 5- Animal Information	
10 points	Page 6 – Health Records	
10 points	Page 7 – Monthly Feed Records	
30 points	Page 8 – Income Page 9 – Expenses Page 10 – Net Profit/Loss	
20 points	Page 11 – Average Daily Gain	
10 points	Page 12- Livestock Marketing Page 13 - Buyer Information	
25 points	Page 16-Production Records, calculations or project knowledge	
10 points	Page 17 - Project photos	
TOTAL POINTS		

<u>Awards</u>		
Blue	150-140 points	
Red	139-130 points	
White	129-120 points	
Participation	119-below	

Judges Comments:

Production Calculations

Average Daily Gain (ADG): The average amount of weight an animal has gained each day for a given period of time that the animal has been on feed.

$$\text{ADG} = \text{End Weight} - \text{Beginning Weight} / \text{Days on Feed}$$

Example: Market Lamb

- 120 lb. end weight
- 75 lb. beginning weight
- 60 days on feed

$$\text{ADG} = (120-75) = 45$$

$$\text{ADG} = 45\text{lbs. gained}/60 \text{ days on feed}$$

$$\text{ADG} = 0.75\text{lbs per day}$$

Feed Conversion (FC): The amount of feed required for each pound of an animal gains.

$$\text{FC} = \text{Total pounds of feed} / \text{Total weight gained}$$

Example: Market Goat Project

- Goat ate 150 lbs. of feed (hay, grain, etc.)
- The goat gained 50 lbs. while on feed

$$\text{FC} = 150\text{lbs of feed eaten} / 50\text{lbs gained}$$

$$\text{FC} = 3\text{lbs of feed for each pound gained}$$

Feed Cost Per Pound of Gain: The amount it costs for each pound gained by an animal

$$\text{Feed Cost per lb of gain} = \text{Total cost of Feed the animal ate} / \text{pounds the animal gained}$$

Example: Market Hog Project

- Your pig ate 15 bags of feed at \$20.00/bag (\$300.00)
- The pig gained 200lbs

$$\text{Feed Cost per lb of gain} = \$300 / 200\text{lbs.} = \$1.50 \text{ per pound of gain}$$

Break Even Cost: the total amount of money an animal must be sold for to cover all the costs associated with raising the animal.

$$\text{Break Even Cost} = \text{Total Cost of all Inputs} / \text{Sale Weight}$$

Example: Market Lamb Project

- 125 lb Market Lamb
- Total cost for project \$693.00

$$\text{Break Even Costs} = \$693.00/125\text{lbs}$$

$$\text{Break Even Costs} = \$5.54 \text{ per lb}$$

Estimated Carcass Weight (ECW): How much your animal's carcass is expected to weigh once the animal has been processed.

$$\text{ECW} = \text{live weight} \times \text{dressing \% (use average for the species)}$$

Dressing Percentage Averages

- Hogs – 70%
- Steers – 60%
- Lambs – 50%
- Goats – 45%

Example: Market Hog Project

- Live weight – 265lbs
- Average Dressing Percent for hogs = 70%

$$\text{ECW} = 265 \times 70\%$$

$$\text{ECW} = 265 \times .70$$

$$\text{ECW} = 185.50\text{lbs}$$

Performance Ratio: a measure of how your animal's performance for a given trait compares to the average performance of the group for that trait. You could do this for ADG (average daily gain) or carcass traits if your fair collects carcass data. Briefly explain what the number means.

$$\text{Ratio} = (\text{individual animal value for trait} \div \text{group average for trait being measured}) \times 100$$

Example: Beef Project – Average Daily Gain

- Your animal's ADG value = 2.85 lbs/day
- Group average for ADG = 3.05 lbs/day
- This means your animal performed 6% below the other animals in the group

$$\text{Ratio} = 2.85 \text{ ADG} \div 3.05 \text{ ADG}$$

$$\text{Ratio} = .9344 \times 100$$

$$\text{Ratio} = 93.44$$

Sale Commission Fee – All Species \$5.00

Promotion & Research (Check Off's)

- \$1.00 Steers – Beef Check Off
- \$0.50 Lamb
- \$0.004 X gross weight of Hog

Entry Fees

- \$15.00 per steer
- \$10.00 per Hog, Lamb, & Goat

Carcass Contest - \$5.00 per head

Class Premiums					
1 st Place	2 nd Place	3 rd Place	4 th Place	5 th Place	All Others
\$15.00	\$13.00	\$11.00	\$9.00	\$7.00	\$5.00