



NAME OF PROJECT \_\_\_\_\_

NAME OF MEMBER \_\_\_\_\_

YEARS IN THIS PROJECT \_\_\_\_\_

YEARS IN 4-H \_\_\_\_\_

**AKH-00036**

# 4-H LIVESTOCK PROJECT INSERT

## PROJECT COMMITMENT

This is what I want to do and learn: include description of animals you plan to have, goal, what you want to learn, etc.

\_\_\_\_\_  
*Member Signature*

\_\_\_\_\_  
*Date*

This is what my parent(s)/guardian/leader agreed to do to help me learn:

\_\_\_\_\_  
*Parent/Guardian/Leader Signature*

\_\_\_\_\_  
*Date*



# PROJECT ANIMAL VETERINARY RECORD

**Include a copy of this form for each animal.**

Animal species and breed \_\_\_\_\_

Tag/tattoo number of project \_\_\_\_\_

Date of birth \_\_\_\_\_

Animal health records need to include any injury, illnesses, vaccinations, parasite control, vitamins/minerals, castration, dehorning, medication in feed, etc.

*NOTE: If raising a market animal(s), be sure you do not use any drugs or medications that are not cleared for use in meat animal(s) and follow drug withdrawal periods prior to fair auction or slaughter.*

Date (m/d/yy)	Description of what was done	Product	Dose	Cost
TOTAL				







# RATE OF GAIN WORKSHEETS

**Successful Market Livestock Projects** include enough information about how much weight is gained, how much feed is consumed, how efficiently feed is used and how much money is spent and earned for you to judge the success of your project this year and plan improvements for future projects.

A. The rate at which an animal gains weight can be calculated from your weight records.

AVERAGE DAILY GAIN (ADG) = Weight gained(lbs) divided by # of days fed = Pounds gained per day(lbs/day)

Example: A calf weighed 90 lbs when purchased and it weighed 290 lbs after feeding it for 100 days.

Weight gained = 290 lbs - 90 lbs = 200 lbs

ADG = 200 lbs divided by 100 days = 2 lbs/day

Question: Is ADG in May the same as ADG in July? \_\_\_\_\_ Can you change your ADG? \_\_\_\_\_

**Boxes 1 & 2 are for large livestock. Box 3 is for small livestock (poultry, rabbits, cavies)**

(1) Calculate your animal's ADG from possession until June weigh-in:

\_\_\_\_\_ lbs gained divided by \_\_\_\_\_ days = \_\_\_\_\_ lbs/day

(2) Calculate your animal's ADG from June weigh-in until fair weigh-in:

\_\_\_\_\_ lbs gained divided by \_\_\_\_\_ days = \_\_\_\_\_ lbs/day

(3) Small stock only — Calculate your animal's ADG:

\_\_\_\_\_ weight at fair divided by \_\_\_\_\_ days of age = \_\_\_\_\_ lbs/day

B. The amount of feed an animal eats per day can be calculated from your feed records.

AVERAGE DAILY FEED INTAKE (ADFI) = Total feed (lbs) divided by # of days fed = pounds consumed per day (lbs/day)

Example: A pig ate 550 lbs of feed (including pig chow, grain, concentrates, milk solids, etc.) in a period of 100 days.

ADFI = 550 lbs divided by 100 days = 5.5 lbs of feed consumed per day

Question: Why is ADFI different from ADG?

Calculate your animal's ADFI:

\_\_\_\_\_ lbs total feed divided by \_\_\_\_\_ days fed = \_\_\_\_\_ lbs/day

## RATE OF GAIN WORKSHEETS

- C. The amount of feed required for each pound an animal gains can be calculated from weight and feed records.

FEED CONVERSION (FC) = Total feed (lbs) divided by weight gained (lbs) = Pounds eaten per pound gained (lbs/lb)

Example: A goat ate 150 lbs of feed (hay, grain, goat chow, concentrates, milk solids, etc.) during a period of 100 days. It weighed 30 lbs when purchased and it weighed 80 lbs after 100 days.

Weight gained = 80 lbs - 30 lbs = 50 lbs

FC = 150 lbs total feed divided by 50 lbs weight gained = 3 lbs of feed consumed per lb gained

Question: Do you want your FC to be a big number or a little number? \_\_\_\_\_

Calculate your FC:

\_\_\_\_\_ lbs total feed consumed divided by \_\_\_\_\_ lbs weight gained = \_\_\_\_\_ lbs fed/ lb gained

- D. The amount it costs for each pound gained by an animal can also be calculated from feed and weight records.

FEED COST PER POUND OF GAIN= Cost of feed divided by weight gained (lbs) = \$/lb

Example: A turkey ate two bags of turkey feed, which cost \$25 (\$12.20 per bag). It weighed ¼ lb when obtained and it weighed 25 and ¼ lb at the end of the project.

Weight gained was 25 lbs.

Feed Cost= \$25 (total feed cost) divided by 25 lbs (weight gained) = \$1 cost per pound

Question: Can you change your feed cost per pound of gain? \_\_\_\_\_

How?

Calculate your feed cost per pound of gain:

\$\_\_\_\_\_ feed cost divided by \_\_\_\_\_ lbs weight gained = \$\_\_\_\_\_/lb

# PROJECT HIGHLIGHTS

**What was learned? Include at least SIX new things learned this year:**

**Unusual events, successes or problems solved:**

**To do differently next time:**

## 4-H PICTURES

Include at least two pictures of you with your 4-H project, participating in 4-H activities or receiving recognition, or results of your 4-H work. Caption each photograph with an explanation of the picture.

## **4-H CLIPPINGS AND CORRESPONDENCE**

Include copies of judging sheets, letters received by you through 4-H and any other correspondence pertaining to your 4-H project(s).

Derylee Hecimovich, Extension Faculty, 4-H and Youth Development

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