



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

EXPENSE JOURNAL

SUPPLIES RECORD

Date (m/d/yy)	Description of non-feed supplies purchased	Cost
	TOTAL	

FEED PURCHASE RECORD

Date (m/d/yy)	Description of feed types and amounts purchased, including mineral supplements	Cost
	TOTAL	

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				

ACTIVITY JOURNAL

Date(m/d/yy)	Time spent with animal; changes in feeding, exercise and training routines; work on animal pens; etc.	Time (minutes)
SUBTOTAL		

ACTIVITY JOURNAL (continued)

Date(m/d/yy)	Time spent with animal; changes in feeding, exercise and training routines; work on animal pens; etc.	Time (minutes)
TOTAL		

PROJECT FINANCIAL SUMMARY

Beginning Value

Materials, supplies, animals and equipment you had on hand at the start of your project year or carried over from previous years.

Date (m/d/yy)		How Much/ How Many	Cost
TOTALS			

Income/Value

Beginning value \$ _____

Sale of animal or project _____

Sale of equipment _____

Fair and show premiums _____

Other _____

Total income from project \$ _____

Costs (project journal)

Cost of supplies/equipment \$ _____

Cost of feed _____

Veterinary care/medications _____

Initial cost of animal(s) _____

____% Sale fee (if market animal) _____

Other _____

Total cost of project \$ _____

Profit (subtract costs from income) \$ _____

Cost of project (if costs are greater subtract income from costs) \$ _____

Total time spent on project (project journal) _____

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 _____ (date) until weigh-in: _____ (date)

_____ lbs gained divided by _____ days = _____ lbs/day

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

_____ 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.

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



Published by the University of Alaska Fairbanks Cooperative Extension Service in cooperation with the United States Department of Agriculture. The University of Alaska is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/nondiscrimination.

©2018 University of Alaska Fairbanks

Revised October 2018