AKH-00036

Alaska 4-H Livestock Project Insert

Name of Project _____ **Years in This Project** _____

Name of Member _____ **Years in 4-H** _____

We are Alaska 4-H — Your first class at UAF

UAF For Youth
COOPERATIVE EXTENSION
UNIVERSITY OF ALASKA FAIRBANKS

Livestock Project Insert

1. Use this Livestock Project Insert along with the Alaska 4-H Record Book to record all the things you do in 4-H this year.
2. Use a separate Livestock Project Insert for each of your projects. This section is also printed separately for convenience.
3. Use your records to look back at the progress you have made during the year. This will be helpful when you write your year-end story and also when you make plans for next year.
4. The Record Book and the Livestock Project Insert demonstrate your personal work. They should be kept current as the year progresses. Handwriting or typing should be your own. You may add pages if you run out of room for entries.
5. The Record Book and the Livestock Project Insert document the care, cost and keeping of animals, and skills learned and are treasured keepsakes of a child's growth and development in a project. To high school age members, these Record Books and inserts can be used as references for jobs, colleges and scholarships.

Name of Project _____ **Years in This Project**_____

Name of Member _____ **Years in 4-H** _____

Project Commitment

This is what I want to do and learn (include description of animals you plan to have, goals you want to achieve, skills you want to learn, etc.):

_____ _____

Member Signature *Date*

This is what my leader agreed to do to help me learn:

_____ _____

Leader Signature *Date*

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

_____ _____

Parent(s)/Guardian Signature *Date*

Expense Journal

SUPPLIES RECORD:

Date (m/d/yy)	Description of Non-feed Supplies Purchased	Cost
	TOTAL	

FEED PURCHASE RECORD:

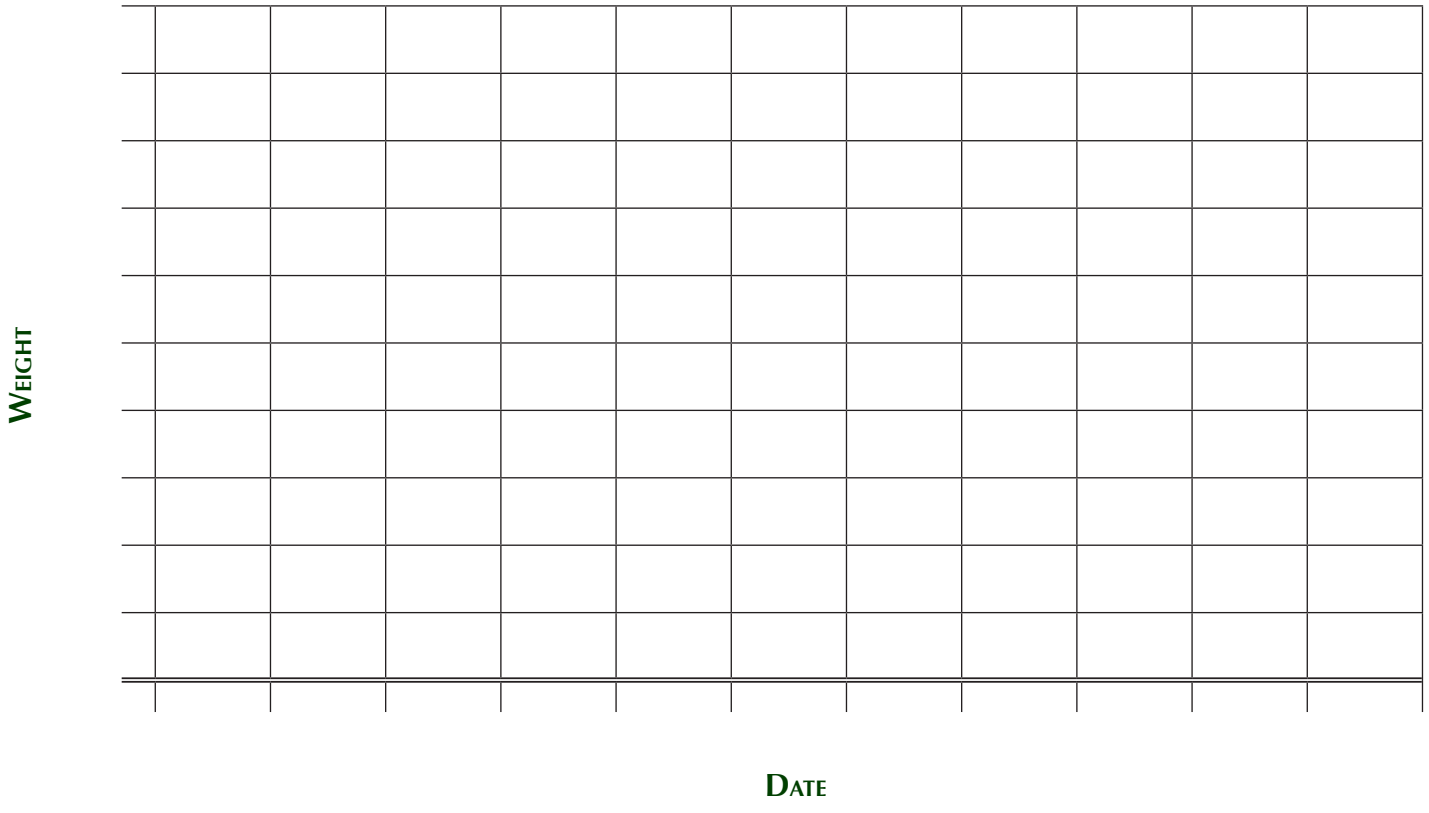
Date (m/d/yy)	Description of feed types and amounts purchased, including mineral supplements	Cost
	TOTAL	

Animal Weight Record (Use separate sheet per animal)

Animal Name: _____ **ID/Tag #** _____

Date (m/d/yy)	Method Used: Weight Tape, Scale Type, Other	Weight Description: Birth, Purchase/Start, Official Fair, End of Project, Other	Weight

Animal Weight Graph



Animal Species and Breed_____ **Animal Name:** _____ **ID/Tag #** _____

Project Animal Veterinary Records (Include a copy of these forms for each animal)

If raising a market animal(s), do not use drugs/medications that are not approved for use in meat animal(s). Follow drug/medication withdrawal periods prior to fair/project completion. All animal(s) will be inspected for illness/external parasites before entering barns at the fair. Any animal(s) with illness/external parasites may not remain on the fairgrounds.

Date (m/d/yy)	Description of What Was Done	Product	Dose	Cost
			TOTAL	

Animal Proof of Vaccination Record (Keep original in Record Book - copy for animal delivery day vet check)

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Date (m/d/yy)	Vaccine	Parasite Control	Medication in Feed	Manufacturer	Lot No.	Expiration	Dose	Description/ Disease(s) Prevented	Who Administered	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)

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	Item	How much/ How many	Cost
	TOTALS		**$**

Income/Value

Beginning value	$ _____	
Sale of animal or product	_____	
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.

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HEAD

HEART

HANDS

HEALTH

The Motto

To make the best better.

The Pledge

I pledge

my HEAD to clearer thinking,
my HEART to greater loyalty,
my HANDS to larger service,
my HEALTH to better living,

for my club, my community,
my country, and my world.

The Slogan

Learn by doing.

www.uaf.edu/ces or 1-877-520-5211

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

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11-17/DH/07-23

Revised May 2022