



NORTH DAKOTA 4-H

SHEEP or BEEF BREEDING PROJECT RECORD

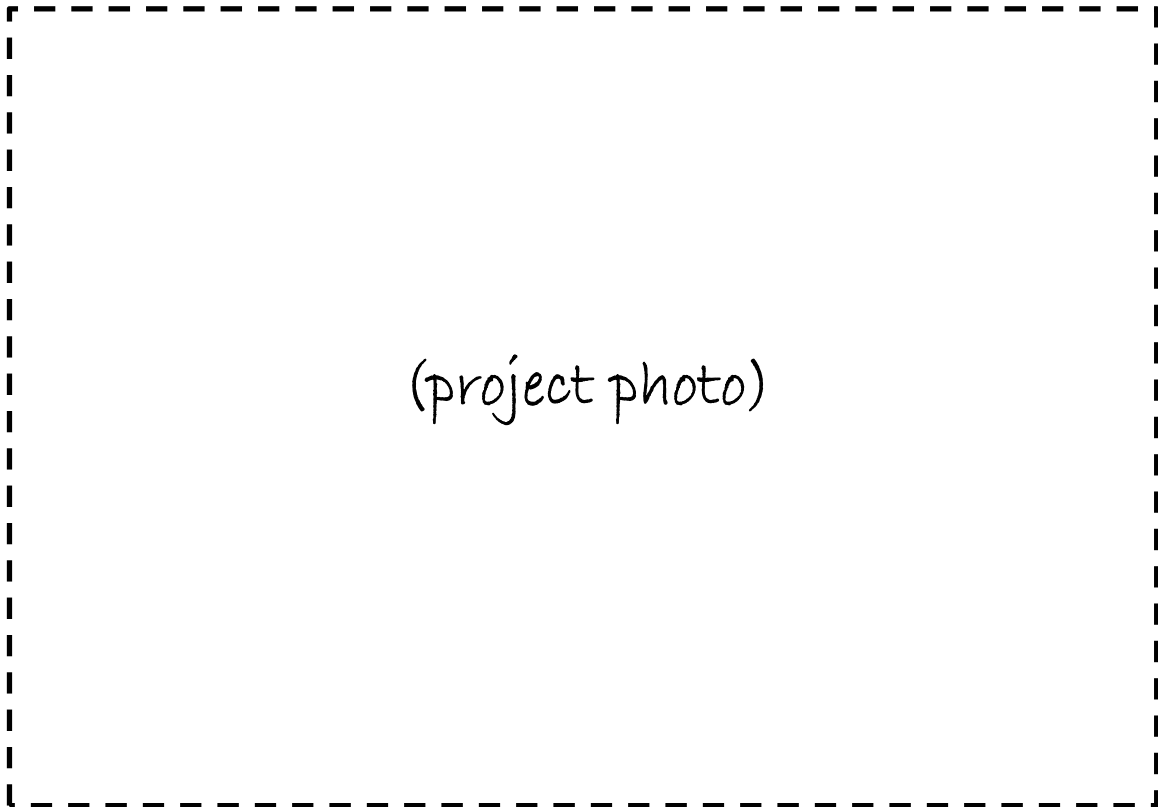
Use this record to keep track of expenses and income for your market animal project for one year.

4-H member information

Project _____ 4-H Year _____

Name _____ Club _____

Age _____ Years in the project _____ Years in 4-H _____ Date project started _____



Caption _____

*Younger members may need help filling out the information necessary for their projects.
The first line of each table is an example of how to complete that table.*

Objectives

In the market animal project, you will learn:

1. To gain a knowledge and understanding of livestock production and feeding.
2. To make decisions and be responsible for the care and well-being of an animal.
3. To learn how to manage time and resources.
4. To share the information and skills learned with others.
5. To learn how to communicate with others.
6. To explore careers which work with animals.

You may not reach
all of these objectives
in one year.

You also may want to
develop your own
objectives.

My objectives for my breeding project:

11. _____
12. _____

Breeding Project Information

(Fill in the following information where applicable)

Number of years in market project _____

Number of animals in market project this year _____

Number of: Heifers _____ Cows _____ Calves _____ Bulls _____
 Ewes _____ Lambs _____ Rams _____

Goals of this project _____

How many animals in this project will you be exhibiting at Achievement Days or your county fair?

Feeding Period Sheet

1. Date feeding period started _____ ended _____

2. Total days of this feeding period _____

3. Check the type of animal that this feeding period applies to:

☐ Heifers ☐ Cows ☐ Calf ☐ Bull ☐ Ewes ☐ Lambs ☐ Rams

4. Animal weight at the beginning of feeding period _____

(use average weight if more than one animal)

In this section, include all feeds, minerals, vitamins and protein supplements. If you are feeding more than one animal the same ration, use one feed sheet. Do not include animals that are on different rations. Use a separate set of feeding period sheets for those animals.

| Feed | (A) Lbs. Feed per Day | (B) Cost/lb. of Feed cents/lb. | (C) No. of Days Fed | (D) Total lbs. Fed (A x C) | (E) Total Cost (A x C x B) |
|-----------|-----------------------------|--------------------------------------|------------------------|----------------------------------|----------------------------------|
| Grass Hay | 24 | .025 | 120 | 2800 | \$72.00 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Totals | | XXXXX | XXXXX | | |

Explain why this ration was used _____

Explain why any changes in this ration were made _____

(When major changes in ration occur, please document on the next feeding period sheet. You may need extra sheets.)

Feeding Period Sheet

1. Date feeding period started _____ ended _____

2. Total days of this feeding period _____

3. Check the type of animal that this feeding period applies to:

☐ Heifers ☐ Cows ☐ Calf ☐ Bull ☐ Ewes ☐ Lambs ☐ Rams

4. Animal weight at the beginning of feeding period _____

(use average weight if more than one animal)

In this section, include all feeds, minerals, vitamins and protein supplements. If you are feeding more than one animal the same ration, use one feed sheet. Do not include animals that are on different rations. Use a separate set of feeding period sheets for those animals.

| Feed | (A) Lbs. Feed per Day | (B) Cost/lb. of Feed Cents/lb. | (C) No. of Days Fed | (D) Total lbs. Fed (A x C) | (E) Total Cost (A x C x B) |
|-----------|-----------------------------|--------------------------------------|------------------------|----------------------------------|----------------------------------|
| Grass Hay | 24 | .035 | 60 | 1440 | \$50.40 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Totals | | XXXXX | XXXXX | | |

Explain why this ration was used _____

Explain why any changes in this ration were made _____

(When major changes in ration occur, please document on the next feeding period sheet. You may need extra sheets.)

Feeding Period Sheet

1. Date feeding period started _____ ended _____

2. Total days of this feeding period _____

3. Check the type of animal that this feeding period applies to:

☐ Heifers ☐ Cows ☐ Calf ☐ Bull ☐ Ewes ☐ Lambs ☐ Rams

4. Animal weight at the beginning of feeding period _____

(use average weight if more than one animal)

In this section, include all feeds, minerals, vitamins and protein supplements. If you are feeding more than one animal the same ration, use one feed sheet. Do not include animals that are on different rations. Use a separate set of feeding period sheets for those animals.

| Feed | (A) Lbs. Feed per Day | (B) Cost/lb. of Feed Cents/lb. | (C) No. of Days Fed | (D) Total lbs. Fed (A x C) | (E) Total Cost (A x C x B) |
|--------|--------------------------|--------------------------------------|------------------------|----------------------------------|----------------------------------|
| Corn | 5.0 | .085 | 180 | 900 | \$76.50 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Totals | | XXXXX | XXXXX | | |

Explain why this ration was used _____

Explain why any changes in this ration were made _____

(When major changes in ration occur, please document on the next feeding period sheet. You may need extra sheets.)

Grazing Period Sheet for Pasture

1. Date grazing period started _____ ended _____

In this section include grazing only. All mineral, vitamin and protein supplements should be recorded on Feed Period Sheets.

| Kind of Animal | (A) Number of Animals | (B) Equiv. (see table) | (C) Animal Units (A x B) | (D) Months Grazed | (E) Total AUMs Grazing (C x D) | (F) Cost/AUM | (G) Grazing Cost/Period (E x F) |
|----------------|--------------------------|------------------------------|--------------------------------|----------------------|--------------------------------------|-----------------|------------------------------------|
| Heifer | 1 | .65 | .65 | 6 | 3.90 | \$12.50 | \$48.75 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 2. Totals | | | | XXXXX | | | |

| Table 1. Animal unit equivalent conversion factor. | |
|--|-------------------------------|
| Kind of Animal | Animal Unit Conversion Factor |
| Beef cow 2 years and over | 1.0 |
| Calves over 3 months | 0.3 |
| Yearling cattle | 0.65 |
| Bulls | 1.3 |
| Ewes | 0.2 |
| Yearling sheep | 0.1 |
| Rams | 0.25 |

AUM – Animal Unit Month is the amount of feed or forage required by an animal for one month.

Animal Unit – A mature (1,000 lb.) cow and calf or the equivalent based on an average daily forage consumption of 26 pounds of dry matter per day.

Loan Record

To determine interest paid: $A \times B \times C \div 365$

| Date | Item Loan was Received For | (A) Amount of Loan | (B) % Interest | (C) Length of Loan | (D) Principle Paid | (E) Interest Paid | (F) Total Payment |
|-----------|----------------------------|-----------------------|-------------------|-----------------------|-----------------------|----------------------|----------------------|
| 1-1-12 | Heifer | \$600.00 | 10% | 4 yrs. | \$150.00 | \$60.00 | \$450.00 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 1. Totals | | XXXXX | XXXXX | XXXXX | | | XXXXX |

Travel Expense

| Animal Identification | Event | (A) Entry Fees | (B) Trans- portation | (C) Lodging | (D) Other | (E) Totals a+b+c+d |
|-----------------------|-------------|-------------------|----------------------------|----------------|--------------|--------------------------|
| 2324 | County fair | - | \$20.00 | - | - | \$20.00 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 2. Totals | | | | | | |

Equipment Inventory

Equipment purchases made in previous years

| Date | Item | Estimated Value at Beginning of Project Year (A) | Estimated Value at End of Project Year (B) | Depreciation Value* |
|-----------|------------|--|--|---------------------|
| 6-1-12 | Show stick | \$12.00 | \$10.00 | \$2.00 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| 1. Totals | | | | |

Equipment purchases made in current project year

| Date | Item | Price Paid |
|-----------|----------|------------|
| 6-1-12 | Clippers | \$150.00 |
| | | |
| | | |
| | | |
| | | |
| 2. Totals | | |

Animal Inventory

| Date | Item | Estimated Value at Beginning of Project Year (A) | Estimated Value at End of Project Year (B) | Change Inventory (C)* |
|-----------|------------|--|--|--------------------------|
| 1-3-12 | Steer calf | \$250.00 | \$560.00 | \$310.00 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| 1. Totals | | | | |

* Depreciation value or inventory change value = beginning value (column A) minus ending value (column B)

Expense Summary

Value of animals at beginning of this year's project (use one line per animal in project)

| Animal Identification No. (A) | Beginning Weight (B) | Market Price at Time of Purchases (C) (cwt) | Animal Value (D) (B x C) |
|----------------------------------|-------------------------|--|-----------------------------|
| 2425 | 600.00 | .83 | \$498.00 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

1. TOTAL COLUMN D \$ _____

2. Veterinary expenses (from lifetime record forms, **Beef** or **Sheep** - use current project year expenses only) \$ _____

3. Total feed bill (total all feeding period sheets – line 5E from feeding period sheets) \$ _____

4. Interest (from loan record section, line 1E) \$ _____

5. Travel expense (travel expense section, line 2E) \$ _____

6. Equipment purchases (from equipment inventory section, line 2A); use current project year purchases only \$ _____

7. Other cash expenses \$ _____

Specify _____

Specify _____

8. Total cash expenses..... \$ _____

Income Summary

Premiums from livestock shows (for current project year, use actual ribbon premiums)

| Date | Show/Event | Ribbons and/or Placing | Actual Premiums |
|--------|------------|------------------------|-----------------|
| 1-1-12 | State fair | Blue ribbon | \$25.00 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

1. Total from livestock premiums \$ _____

Estimate or actual sale value of project at end of project year

| Animal ID | Weight Selling Time (A) | Market Price Selling Time (B) (cwt) | Sale Value* A x B (C) |
|-----------|-------------------------|-------------------------------------|-----------------------|
| 3751 | 650 | .86 | \$559.00 |
| | | | |
| | | | |
| | | | |

2. Total sale value of project (total of column C) \$ _____

*sale value = selling weight multiplied by selling market price

If animal is sold by the head, enter value in sale value, column C

3. Other cash income received from your project \$ _____

Specify _____

Specify _____

Specify _____

4. Total cash income \$ _____

Business Summary

1. Total cash income (from income section, line 4) \$ _____
2. Total cash expense (from expense section, line 8) \$ _____
3. Net cash income or loss (line 1 minus line 2) \$ _____
4. Value of any feed left on hand for which you have paid \$ _____
5. Net income – profit or loss (line 3 + 4) \$ _____

Explain why you have a profit or loss _____

How will you improve this project? _____

Suggested Companion Projects

National 4-H Curriculum

Veterinary Science Series

From Airedales to Zebras, Unit 1

All Systems Go, Unit 2

On the Cutting Edge, Unit 3

Beef Series

Bite Into Beef, Unit 1

Here's the Beef, Unit 2

Leading the Charge, Unit 3

Sheep Series

Lambs, Rams and You, Unit 1

Shear Delights, Unit 2

Leading the Flock, Unit 3

Developed by

Annette Steffan, former county Extension agent

Chuck Steffan, former area beef/range management specialist

Dan Dhuyvetter, former area beef/range management specialist

For more information on this and other topics, see: www.ndsu.edu/4h

NDSU encourages you to use and share this content, but please do so under the conditions of our Creative Commons license. You may copy, distribute, transmit and adapt this work as long as you give full attribution, don't use the work for commercial purposes and share your resulting work similarly. For more information, visit www.ag.ndsu.edu/agcomm/creative-commons.

County commissions, North Dakota State University and U.S. Department of Agriculture cooperating. North Dakota State University does not discriminate on the basis of age, color, disability, gender expression/identity, genetic information, marital status, national origin, public assistance status, race, religion, sex, sexual orientation, or status as a U.S. veteran. Direct inquiries to the Vice President for Equity, Diversity and Global Outreach, 205 Old Main, (701) 231-7708. This publication will be made available in alternative formats for people with disabilities upon request, (701) 231-7881.