

# GRATIOT COUNTY



## BEEF PROJECT RECORD BOOK 2025

Name: \_\_\_\_\_

4-H Club/FFA Chapter/Open: \_\_\_\_\_

Leader: \_\_\_\_\_

Age (as of January 1): \_\_\_\_\_

Years in Project Area: \_\_\_\_\_

Record Started: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_      Record Closed: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
                          Month    Day    Year   Month    Day    Year

Check One

Junior:

8-11 years old

Intermediate:

12-14 years old

Senior:

15-19 years old

# Record Book Instructions:

## **DON'T CHANGE THE PAPER:**

Completed record books must be on standard letter sized (8.5"x11") white paper. There are classes in still exhibits for scrapbook so please leave these types of books there. Minor embellishments are allowed, and neatness is encouraged. Books must be fastened with a staple in the upper right-hand corner or secured inside a 3-ring binder or folder.

## **DON'T BE LATE.... KNOW THE DUE DATE AND TIME:**

The date and time to turn in a completed record book will be listed on the Schedule of Events of Exhibitors.

## **USE THE RIGHT RESOURCES:**

A good resource to help complete this record book includes the publication "Your 4-H Market Beef Project" which is available by loan at the Gratiot County MSU Extension Office. Other resources can be found online.

## **ONLY COMPLETE YOUR AGE DIVISON:**

There are no extra credit points for younger age divisions completing the whole record book.

## **BREEDING STOCK:**

Please fill out the record book to the best of your knowledge for your breeding animal. It is still required for you to fill out the All about my beef project, project expenses, and business plan pages.

## **All about my beef project...**

For this section use the animal you will most likely exhibit at the fair. If you are exhibiting both market and breeding stock, focus on one registered animal.

Name or identification of my animal: \_\_\_\_\_

GCFFY Tag Number: \_\_\_\_\_ RFID Number: \_\_\_\_\_ Breed: \_\_\_\_\_

Color(s): \_\_\_\_\_ Date of birth: \_\_\_\_\_ Actual BD \_\_\_ Estimated \_\_\_

Special Markings: \_\_\_\_\_

Please check one: \_\_\_ Purchased \_\_\_ Raised Date of purchase: \_\_\_\_\_

Please check one: \_\_\_ Steer \_\_\_ Heifer \_\_\_ Cow (breeding stock only)

Purchase price: \_\_\_\_\_ If you raised your animal, list the estimated market value.

A completed record book should have photos of your animal. At a minimum this book should have a beginning and ending picture. Photo captions are encouraged and up to two extra pages can be included in this record book.

## All about my beef project...

You may choose to do the weight record OR the essay. The points scored for whichever choice you make will be the same. The fair recommends all market exhibitors weigh their animals frequently but understands that access to a scale is not always available.

**Essay:** DO NOT COMPLETE THE WEIGHT RECORD: Write and attach to your completed book an essay from one of these two essay topic choices. Junior exhibitors complete an up to half page essay. Intermediate Exhibitors complete an up to one page essay. Senior Exhibitors complete an up to 2 page essay. **Topic 1:** Describe what judges look for in the show ring of the fair. Discuss steps you can take to present your animal in the best possible way to a judge. **Topic 2:** With animal rights groups such as PETA looking to showcase animal abuse, what steps can you take to ensure your animal is raised comfortably. Essays have the same possible points as the above weight section.

### Weight Record:

It is recommended to weigh your market animals at least once a month. Use one chart for up to four animals. These should be the same four market animals registered on the market beef registration on fair entry.

Animal ID					
Date	Method (scale or tape)	Weight	Weight	Weight	Weight
Final					
Describe changes made based on information you gathered collecting this weight data.					

**My project expenses:** List all expenses for this project and record the cost spent under the proper account. If your family/farm is providing feed, please estimate an approximate value. Add additional sheets if necessary. A completed table will have more than one line for each cost. For example feed costs will be for more than just feed need to be itemized grain, hay, mineral etc. (5 pts.)

How many animals are in this project? This can be your project animal and backup animals.					
Date of purchase	Purchase description	Feed Cost	Vet/health Cost	Bedding Cost	Other cost
<b>Total Column Expenses</b>					
<b>Total Project Expenses:</b> (total column expenses)					
<b>Average cost per animals</b> (total project expenses divided by number of animals in project)					

# My Business Plan:

The following calculations will help you learn about your ability to earn a profit for your participation in this agricultural project. Often in animal projects the profit margin for commercial feeding facilities has a slim profit margin. Let's see how your project would compare.

Average cost per animal: \_\_\_\_\_

Purchase cost (primary project animal): \_\_\_\_\_

Total Expenses (whole project): \_\_\_\_\_

Number of project animals in this report: \_\_\_\_\_

Average cost per animal: \_\_\_\_\_

Finished weight of project animal: \_\_\_\_\_

*Note: finished weight can be taken at home anytime during the week prior to fair or it can be the fair's official market weight.*

Break-even price: \_\_\_\_\_

*To calculate the break-even price divide the average cost per animal by finished weight.*

What is the current market price of market beef? \_\_\_\_\_

Would you have been able to make a profit if you would have sold your beef animal at the stock yard at this current market price rather than the fair's livestock sale? Why or why not?

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\_\_\_\_\_

# Keeping my beef project healthy:

Listed below are common health problems in cattle. List the cause of these health problems (virus, bacteria, deficiency, etc.); how an animal can contract the disease and provide the symptoms and the treatment for the disease (if no treatment state the next steps for the animal).

**Actinomycosis:** (4 pts.)

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**Brucellosis:** (4 pts.)

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**Mastitis:** (4 pts.)

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**Founder:** (4 pts.)

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**List steps you can take to keep cattle healthy:** (4 pts.)

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# Animal Care and Management

**Junior, Intermediate, Senior Division Complete the following (10 points):**

Describe the pen/pasture you have for your beef animal (1 pt): \_\_\_\_\_

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What do you feed your animal? (check all that apply) (1pt)

Hay       Pellets       Grain       Supplements

Other \_\_\_\_\_

Please attach your feed tag here to answer questions below(1 pt)....

What is the Brand Name and Product Name of this feed? (2 pt) \_\_\_\_\_

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Who is responsible for manufacturing this feed? (1 pt) \_\_\_\_\_

What is the crude protein percentage in this feed? (1 pt) \_\_\_\_\_

What is the crude fiber percentage in this feed? (1 pt) \_\_\_\_\_

What is the main ingredient in this feed? (if not clear, probably the first ingredient listed) (1 pt)

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Is this a medicated feed? (1 pt) \_\_\_\_\_

Your project takes regular care and management. List the things necessary to take care of your project animal(s). (10 points)

Feeding and watering practices, grooming (clipping, trimming, foot care, etc), health practices and medicines, general management (cleaning living area and feed pans, halter breaking, training etc.)

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Daily Responsibilities - \_\_\_\_\_

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Weekly Responsibilities - \_\_\_\_\_

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Monthly Responsibilities - \_\_\_\_\_

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Yearly Responsibilities - \_\_\_\_\_

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**Junior, Intermediate, Senior Division Complete the following:**

Read the Medication Label and Answer the Following Questions:



**DOSAGE AND ADMINISTRATION:**

**Cattle:**

**Single-Dose Therapy (BRD Treatment):** Administer, by subcutaneous injection, a single dose of 7.5-12.5 mg/kg of body weight (3.4-5.7 mL/100 lb).

**Multiple-Day Therapy (BRD Treatment):** Administer daily, a subcutaneous dose of 2.5-5 mg/kg of body weight (1.1-2.3 mL/100 lb). Treatment should be repeated at 24-hour intervals for three days. Additional treatments may be given on Days 4 and 5 to animals that have shown clinical improvement but not total recovery.

**Single-Dose Therapy (BRD Control):** Administer, by subcutaneous injection, a single dose of 7.5 mg/kg of body weight (3.4 mL/100 lb). See insert for examples of conditions that contribute to high risk.

Administered dose volume should not exceed 20 mL per injection site.

**Swine:**

Administer, either by intramuscular or subcutaneous (behind the ear) injection, a single dose of 7.5 mg/kg of body weight (3.4 mL/100 lb). Administered dose volume should not exceed 5 mL per injection site. For the control of colibacillosis, administration should be initiated within the first 60 days post-weaning when clinical signs are present in at least 2% of the animals in the group. See package insert for full dosage and administration information.

**INDICATIONS:**

**Cattle:** Baytril® 100 is indicated in beef and non-lactating dairy cattle for:

**Single-Dose Therapy:** the treatment of bovine respiratory disease (BRD) associated with *Mannheimia haemolytica*, *Pasteurella multocida*, *Histophilus somni* and *Mycoplasma bovis* in beef and non-lactating dairy cattle; and for the control of BRD in beef and non-lactating dairy cattle at high risk of developing BRD associated with *M. haemolytica*, *P. multocida*, *H. somni* and *M. bovis*.

**Multiple-Day Therapy:** the treatment of bovine respiratory disease (BRD) associated with *Mannheimia haemolytica*, *Pasteurella multocida* and *Histophilus somni* in beef and non-lactating dairy cattle.

**Swine:** Baytril® 100 is indicated for:

The treatment and control of swine respiratory disease (SRD) associated with *Actinobacillus pleuropneumoniae*, *Pasteurella multocida*, *Haemophilus parasuis*, *Streptococcus suis*, *Bordetella bronchiseptica* and *Mycoplasma hyopneumoniae*. The control of colibacillosis in groups or pens of weaned pigs where colibacillosis associated with *Escherichia coli* has been diagnosed.

**CONTAINS PER mL:** Enrofloxacin 100 mg. Excipients: L-arginine base 200 mg, n-butyl alcohol 30 mg, benzyl alcohol (as a preservative) 20 mg and water for injection q.s.

**RESIDUE WARNINGS:**

**Cattle:** Animals intended for human consumption must not be slaughtered within 28 days from the last treatment. This product is not approved for female dairy cattle 20 months of age or older, including dry dairy cows. Use in these cattle may cause drug residues in milk and/or in calves born to these cows. A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.

**Swine:** Animals intended for human consumption must not be slaughtered within 5 days of receiving a single injection dose.

**HUMAN WARNINGS: Not for use in humans. Keep out of reach of children. See package insert.**

For customer service or to obtain product information, including a Safety Data Sheet, call 1-800-633-3796.

For medical emergencies or to report adverse reactions, call 1-800-422-9874.

**STORAGE CONDITIONS:** Protect from direct sunlight. Do not refrigerate or freeze. Store at 20-30°C (68-86°F), excursions permitted up to 40°C (104°F). Precipitation may occur due to cold temperature. To redissolve, warm and then shake the vial.

**Read package insert carefully for complete details.**

**Medication Label Questions (10 points.):**

1. What is the name of this medication? \_\_\_\_\_
  2. How big of a bottle is this medication? \_\_\_\_\_
  3. How should this medication be administered? \_\_\_\_\_
  4. What is the recommended dosage for single-dose therapy in cattle? \_\_\_\_\_
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5. What is the recommended dosage for multiple-day therapy in cattle? \_\_\_\_\_

5. What dosage would you give a 900 lb steer using the single-dose therapy?

6. How often and how many days should this medication be administered, according to multiple-day therapy, according to the medication labels recommendation?

7. Looking at the temperature at which this medication should be stored. Where would be a good location to store it? \_\_\_\_\_

8. What is the withdrawal time for this medication for cattle? \_\_\_\_\_

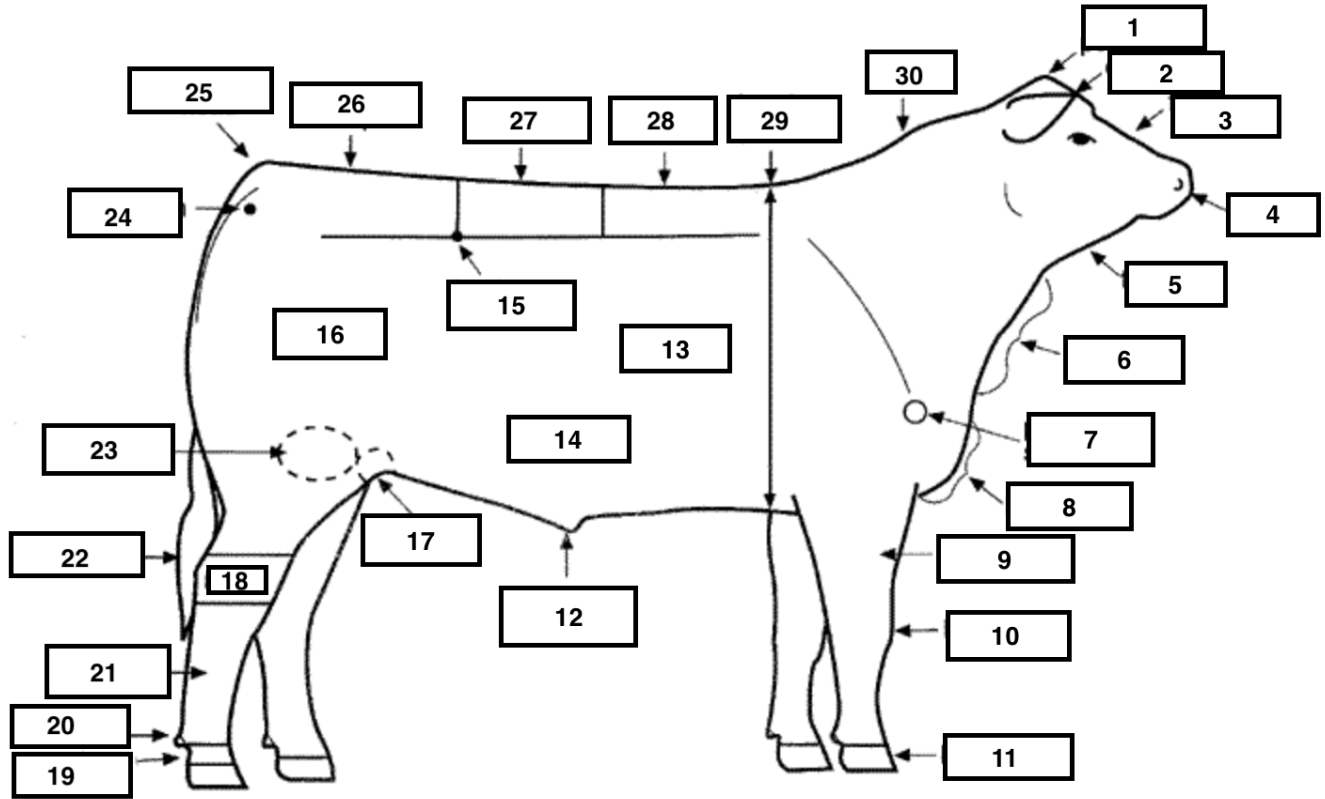
9.(2pts) If the slaughter date for an animal is 8-15-25 and you administer this drug on 8-10-25. Are you following the correct withdrawal period? Why or Why not?

**The following is the drug policy from the fairbook. Fill in the blanks (5 points):**

Drug testing may be performed on market animals at any time while on fairgrounds. Any animal found to be in violation, will be \_\_\_\_\_. Any animal containing substances at any level not in compliance with \_\_\_\_\_ and/or \_\_\_\_\_ safety standards; illegal substances and or tampered with animals will be \_\_\_\_\_. Any monies and awards awarded to the individuals, including proceeds will be \_\_\_\_\_.

# My General Beef Knowledge:

Intermediate & Senior Division Complete (30 points):



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My General Beef Knowledge cont.

**Senior Division Complete (25 points):**

1. Name Four (4) Beef Cattle breeds and include where they originated. (8 pt.)

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2. What are the eight main cuts of beef known as the primal cuts? (8 pt.)

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3. What is a beef byproduct? Give an example of a byproduct and where that byproduct comes from? (3 pt.)

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4. What are the three grades of beef and a short description of each ? (3 pt.)

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5. What are three quality attributes to be considered in grading quality? (3 pt.)

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