

DAIRY PROJECT RECORD BOOK 2024

Name:	
4-H Club/FFA Chapter/Open:	
Leader:	
Age (as of January 1):	
Years in Project Area:	
Record Started: / / / Month Day Year	Record Closed: / / / / Month Day Year



Record Book Instructions:

DON'T CHANGE THE PAPER:

Completed record books must be on standard letter sized (8.5"x11") white paper and HANDWRITTEN. There are classes in still exhibits for scrapbooks 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:

The date and time to turn-in a completed record book will be listed on the Schedule of Events for Exhibitors printed in the front of the annual Fair Book.

USE THE RIGHT RESOURCES:

Good resources to help complete this record book is the publication "Your 4-H Market Beef Project" (4-H1188) which is available by loan at the Gratiot County MSU Extension (4-H) Office and the "Beef Resource Handbook" (OSU Extension 4H117R) is available for checkout at the MSU Extension Office. Online resource of "United States Standards for Grades of Feeder Cattle". Some answers will be found at gcffy.org and inside the fair book general and species rules.

Record Book Score Sheet

Page		Possible Points	Po	ints Give	n	
Participants Na	me	J	r	_ Int	.sr	-

Page		Possible Points	Points Given
3	Cover Page		
	My Project		
	Expenses		
	Business Plan		
	Health		
	General Knowledge		
	Neatness, presentation (binder or notebook, decorated)	10	
	Sr. Total	100	
	Int. Total	100	
	Jr. Total	100	



All about my feeder project...

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

Name (or identification) of r	my animal: _			
Tag Number:	Breed:			
Color(s):		Date o	of Birth:	□ Actual Birthdate □ Estimated Birthdate
Special Markings:				
				_
Please Check One: o l	Purchased	o Raised	Date of purchase:	
Please Check One: o Stee	r o Heife	er		
Purchase Price:		If you raised y	our animal, list the estimated ma	rket value.

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



All about my feeder project...

You may choose to do the weight record *OR* the essay. You may not do both the weight record and the essay for this record book. 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.

Choice 1 - Weight Record:

Do not complete the essay "Choice 2" below if you complete this section.

It is recommended to weigh your market beef animal(s) at least once each month. Use one chart for up to four animals. These should be the same (up to) four market beef animals registered on the market beef registration form. If you are doing a breeding program this can be cattle being raised.

ANIMAL ID					
DATE	METHOD Scale, tape, etc.	WEIGHT	WEIGHT	WEIGHT	WEIGHT
peginning					
-inal					
Describe changes m	ade based on informat	ion you gathered co	llecting these weig	ht data.	l

Choice 2 - Project Essay:

Do not complete the weight record "Choice 1" above if you complete this section.

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: What are the differences between a full bred feeder calf and a crossbred calf? Provide reasons why we separate the two classes here at the fair. What are the benefits to one or the other? Topic 2: What are five characteristics a Grand Champion Feeder will encompass? Why are these characteristics important?



My project expenses:

List all expenses for this market project and record the cost spent under the proper account. If your family/farm is providing feed, please estimate an approximate value. Add additional sheet if necessary.

How many animals are in this project. This can be your likely project animal along with backup animals.					
Date of purchase	Purchase Description	Feed Cost	Vet/Health Cost	Bedding Cost	Other Cost
TOTAL Column Expenses					
TOTAL Project Expenses: (find by adding Total Column Expenses together)					
AVERAGE Cost per a	nimals (total project expenses divided by number	of animals in project	ot)		



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 industrial feeder facilities have a slim profit margin. Let's see how you compare.

Average cost per animal (from prior page):
Purchase cost (of primary project animal):
TOTAL EXPENSES (WHOLE PROJECT)
Number of Project Animals in this report:
AVERAGE COST PER ANIMAL:
Finished Weight of Project Animal:
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 break-even price divide the average cost per animal by finished weight.
What is the current market price of market animal?
If you could change one thing about the fair, what would it be?
If you could change one thing about the fair, what would it be?
If you could change one thing about the fair, what would it be?
If you could change one thing about the fair, what would it be?



My General Feeder Knowledge:

All Ages: What are measures we can take to prevent our visitors from becoming ill after visiting the fair?
How is your feeder steer a part of the dairy industry?
Thew to your rooder a part of the daily inductry.
Can your animal be drug tested at the Gratiot County Fair for Youth?
The minimum weight for dairy feeder calves will belbs.
Market feeder beef steers at the Gratiot County Fair for Youth can have a maximum weight oflbs.
If the animal is less than the minimum weight it can be shown in but
All cattle shown at GCFFY should not have any horn longer thaninch(es).
pr crossbreeding with dairy breeds other than those listed above will be eligible for Grand or Reserve Champion.
What time must all fair animals be fed and watered and have their pens cleaned by?
If proper care is not given to your animal the superintendent will place a tag on your pen and the exhibitor must
If there is a second offense, a tag will be placed on your pen and the exhibitor must
What dairy cattle breeds can be shown (without penalty) at GCFFY in the Feeder Classes?
Ages 12-19:
The grade of feeder cattle is determined by evaluating three general value-determining characteristics:
Define Thriftiness:



Ages 15-19:

List examples of internal parasites: List examples of internal parasites: List what can be used to control/treat internal parasites? List examples of external parasites: List examples of external parasites: List what can be used to control/treat internal parasites? List what can be used to control/treat internal parasites?	Define a parasite:
List examples of internal parasites: List what can be used to control/treat internal parasites? List examples of external parasites: List what can be used to control/treat internal parasites?	
List examples of internal parasites: List what can be used to control/treat internal parasites? List examples of external parasites: List what can be used to control/treat internal parasites?	List problems parasites can cause:
List examples of internal parasites: List what can be used to control/treat internal parasites? List examples of external parasites: List what can be used to control/treat internal parasites?	
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	List what can be used to control/treat internal parasites?
	2.00 What our be about to controlled microral parabitoes.
List steps to keep reeder steers healthy.	
	List steps to keep reeder steers freathry.



Ages 8-19:

Keeping my feeder project healthy:

Listed below are initials of diseases. Give the correct name, list if it is a virus or a bacteria and provide symptoms of the disease.

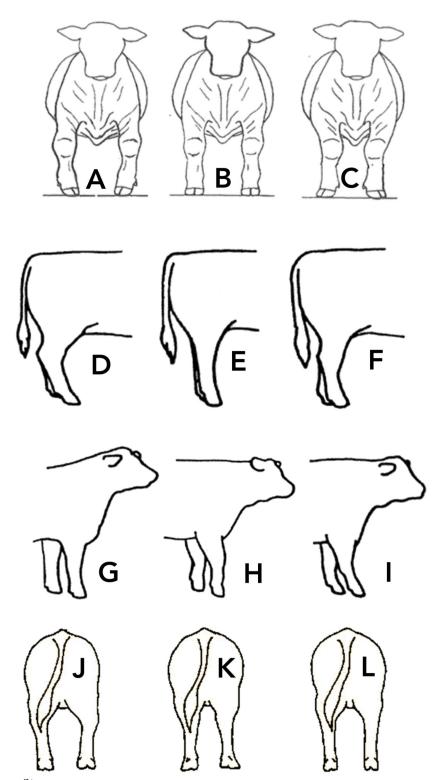
BRSV:	IBR:
BRSV:	
BRSV:	
BRSV:	BVD:
PI3:	
PI3:	
PI3:	BRSV:
PI3:	
	PI3:



My General Feeder Knowledge: Ages 8-19:

Structural Differences:

Identify the structural differences from this chart using the following listed differences. Note... some differences will be listed in two places and some pictures will have two different structural differences as answers (list both). Differences to place on the chart: bowlegged, buck kneed, calf kneed, cow hocked, knock kneed, pigeon toed, postlegged, sickle hocked and splayfooted



Label	Structural Flaw or
From	label as correct
Graphic	
Α	
В	
С	
D	
Е	
F	
G	
Н	
I	
J	
K	
L	



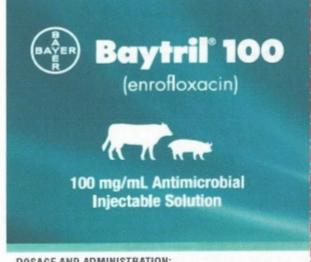
All ages:

- 1. What is the name of this medication?
- 2. How should this medication be administered?

3. What is the withdrawal time on this medication, for cattle?

Ages 12-19

- 1. Looking at the temperature this medication should be stored at, where should it be stored?
- 2. List two cautions you should remember when administering this medication.



DOSAGE AND ADMINISTRATION:

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.

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-wearing when clinical signs are present in at least 2% of the animals in the group. See package insert for full dosage and administration information.

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 beel 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

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: Baytrile 100 is indicated for:

The treatment and control of swine respiratory disease (SRD) associated with Actinobacillus pieuropneumoniae, Pasteurella multocida, Haemophilus parasuis, Streptococcus suis, Bordetella bronchiseptica and Mycoplasma hyopneumoniae. The control of colibacillosis in groups or pens of weaned pigs where collbadillosis associated with Escherichia coll 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

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 yeal.

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.



ΑII	Ages:
1.	Who is the superintendent for dairy feeders at the Gratiot County Fair for Youth?
1.	What is your favorite part of showing a dairy feeder?
2.	What was the hardest challenge this year while raising your dairy feeder?
Ago	es 12-19
1.	The industry is changing. It now can be challenging to find a pure Holstein diary feeder. As the industry changes the fair needs to change also. What are your thoughts on a dairy feeder crossbred class? What are the pros and the cons for this change. Please understand There would be a pure dairy feeder class & a crossbred dairy feeder class with two types of Grand and Reserve—do you agree or disagree?
2. \	What is something you would love to see improve or change for the better! We love suggestions to grow!



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USE THE RIGHT RESOURCES:

Good resources to help complete this record book is the publication "Working With Dairy Cattle," http://www.holsteinfoundation.org/pdf_doc/workbooks/WorkingDairyCattle_WKBK.pdf available for download from the Holstein Foundation and the "Dairy Resource Handbook" (OSU Extension 4H127R) is available for checkout at the MSU Extension Office. Some answers will be found at gcffy.org and inside the fair book general and species rules.

Record Book Score Sheet

Participants Name _______ Jr. ____ Int. ____ Sr. ____

Page		Possible Points	Points Given
	Cover Page		
	My Project		
	Expenses		
	Business Plan		
	Health		
	General Knowledge		
	Neatness, presentation (binder	10	
ps.	or notebook, decorated)		
	Sr. Total	100	
	Int Total	100	

100



Jr. Total

My Project Animal & I:

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



All about my dairy project...

Project Animal(s):

Name or ID	Breed	Date of Birth	Sire	Dam

Why did you enroll in this project?
Where are your project cows located?
There are your project come located.
How did you obtain your project animals?

This is what I feed my project animals:



My project expenses:

List all expenses for this dairy project and record the cost spent under the proper account. If your family/farm is providing feed, please estimate an approximate value. Add additional sheet (s) if necessary. Start your expenses log on January 1 of this year.

How many animals are in this project. This can be your likely project animal along with backup animals.					
Date of purchase	Purchase Description	Feed Cost	Vet/Health Cost	Bedding Cost	Other Cost
TOTAL Column Expenses					
TOTAL PROJECT EXPENSES:					



My General Dairy Knowledge

In order to move cattle in the state of Michigan what kind of tag is required?all cattle who are on site at GCFFY.)	(note these tags are also required fo
All cattle shown at GCFFY should not have any horn longer than	inch(es).
What time must all fair animals be fed and watered and have their pens cleaned by?	
If proper care is not given to your animal the superintendent will place a	tag on your pen and the exhibitor mus
If there is a second offense, a tag will be placed on your pen and	I the exhibitor must
What is the current price of milk dairy farmers are receiving for selling their milk by \$/o	cwt? What does CWT stand for?
What changes, or additions would you like to see happen in the dairy program? Wha	t awards would you like?
Disease and Illness Identification	
By learning about different diseases and illnesses and their symptoms, you wi ing sick, what to do if your animal is sick and how to prevent your animal from from the list with a circle around your selection; then, find answers to the questal pages if needed.	getting sick. Select a disease or illness
Acidosis, Coccidiosis, Hardware Disease, Milk Fever, Botulism, Ketosis, Respiratory Disease (BRD), Johne's	Bovine Leukosis Disease (BLD), Bovine
What do cattle act like when they have that disease or illness?	
How do cattle get that disease or illness? Is it contagious?	
What do you do if your animal gets that disease or illness?	
Will your animal get better if she gets that disease or illness?	
How can you prevent your animal from getting that disease or illness?	



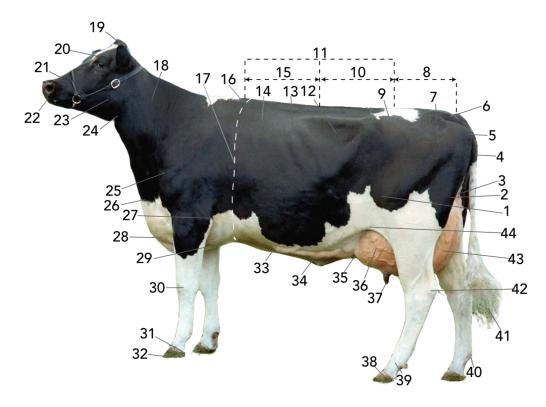
Breed Identification

Please name the breed and the state where the registration office is locate	Ple	ease name	the l	breed a	and the	state	where	the	registration	n office	is lo	cate
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1. This very popular breed originated in the Netherlands and is known for producing the highest volume of milk. They are usually black and white, but some are red and white.
2. Developed in 1750 in the county of Ayr, Scotland, this breed is medium size with strongly attached, well-shaped udders Although they have average milk production, they are known for their extreme hardiness and good foraging ability. These animals are red/mahogany and white.
3. This large-sized breed originated in Switzerland and is known for strength, ruggedness, and good feet and structure. Developed to graze the mountains, these cows have high milk production and provide high-protein milk for cheese. They are solid brown with a black nose, switch and hooves.
4. This breed was developed on an island in the English channel. They are the smallest cows, but produce milk highest in fat and protein. These animals are a shade of fawn with or without white markings.
5. This intermediate-sized breed was developed from an English breed of cattle; the breed association was formed in 1972. Although average mild producers, this breed is an efficient converter of feed into meat or milk. These animals have a high heat tolerance and can be red, white or roan.
6. This breed was developed on an island in the English Channel to produce high-fat milk for making butter. This breed is known for it's gentle nature and yellow-tinted milk. Fawn and white markings characterize this breed.



My General Dairy Knowledge:



Identify the Parts of a Cow:

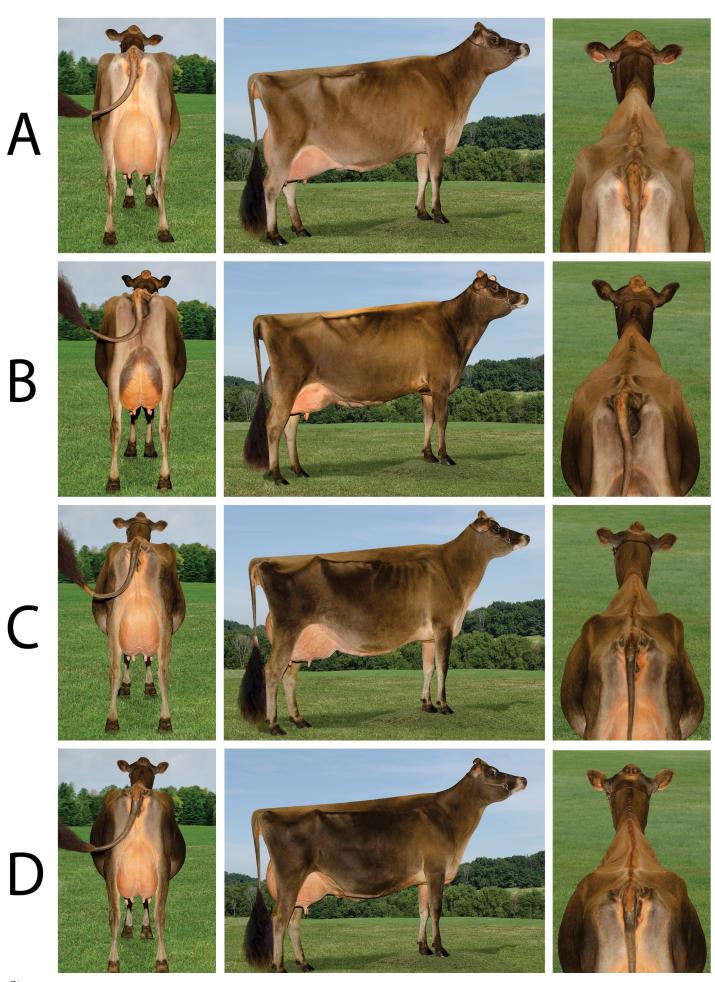
sommy and a serie of a com-	15	30
1	16	31
2	17	32
3	18	33
4	19	
5	20	35
	21	
7	22	37
	23	
	24	
10	25	40
	26	
12	27	42
	28	
	29	



My General Dairy Knowledge:

Using the Dairy Cow Unified Score Card, list the percent given to each major dairy trait and list ONE positive character istic for each of the four major traits.
1) Frame %
2) Dairy Strength %
3) Rear Feet and Legs %
4) Udder %







Dairy Judging: **Guernsey Cows Class** Please place this class with letters A, B, C, D...give written reasons for your top two placings below.



Dairy Industry Interview

One of the best ways to learn about the dairy industry and how to take care of your heifer or cow is to talk to a professional, someone who makes a living doing this. Examples of dairy industry professionals are: a local dairyman, a veterinarian, a nutritionist, an industry professional who works with a company that distributes products used by dairymen, or a dairy judge. Interview one of those professionals listed and have them answer the following questions.

What is their job title?
What made them decide to go into this occupation?
What type of training or schooling do they need to perform their job?
What would they do differently if they could start over?
Would they recommend this type of occupation to someone else? Why or why not?
Come up with your own questions, either about their job or about dairy cattle or dairy farming. Question: Response:

