



CREAM Fall Newsletter

Featuring:
 Creamer Bio's (Prez and VP)
 Day in The Life
 Cream Activities
 More Puzzles
 Guides and more!

Edited By Joshua Patterson



UNH CREAM COWS 2023



992 Aioli



1127 Aphrodite



1009 Brayleigh



1160 Callum



991 Dandelion



988 Groot



938 Heffalump



889 Hestia



1097 Hopper



856 Killians



1026 Melody



1099 Miller



1093 Mousse



1056 Pinto



965 Rabbit



1138 Rocket



1078 Silhouette



1029 Simone



936 Squirtle



1166 Stick



1156 Tahini



1005 Tallulah



1073 Tortilla



987 Trouble



1141 Truffle



1164 Winter

BY KAYLA YOUNG

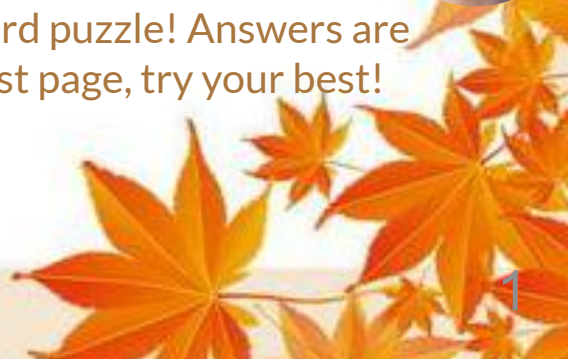
CREAM cows BY BEN MCCARTHY

M	S	B	R	A	Y	L	E	I	G	H	P	L	U
E	H	E	F	F	A	L	U	M	P	E	F	I	M
H	I	E	N	S	I	L	H	O	U	E	T	T	E
T	R	U	F	F	L	E	R	O	C	K	E	T	T
M	E	L	O	D	Y	C	A	L	L	U	M	S	A
D	U	E	B	C	A	I	O	L	I	T	M	R	H
K	C	I	T	S	T	C	H	L	O	W	O	E	I
D	A	N	D	E	L	I	O	N	M	I	U	L	N
E	L	B	U	O	R	T	P	E	D	N	S	L	I
O	U	I	S	L	I	T	P	L	M	T	S	I	S
A	S	I	M	O	N	E	E	L	O	E	E	M	E
I	I	H	U	E	R	K	R	O	D	R	M	E	S
I	L	I	S	Q	U	I	R	T	L	E	I	A	O
B	N	O	F	G	C	G	E	I	T	N	M	R	A

MELODY
 SIMONE
 CALLUM
 MILLER
 AIOLI
 GROOT
 STICK
 TAHINI
 WINTER
 BRAYLEIGH
 ROCKET
 HOPPER
 SILHOUETTE
 MOUSSE
 HEFFALUMP
 DANDELION
 TROUBLE
 SQUIRTLE
 TRUFFLE



Crossword puzzle! Answers are on the last page, try your best!



Creamer Bio's



Cream President!

Kailey Deighan is a junior in the Animal Science Pre-Vet Program. After graduation, she will go to vet school and become a large animal veterinarian. Before attending UNH she knew about the CREAM program and knew she wanted to join. Due to the unique setting of the class as opposed to a lecture hall, it is an opportunity to do hands-on learning with animals. She grew up in 4-H showing dairy cows and working on dairy farms. She has always wanted to be involved with the Fairchild Dairy Teaching and Research Center working with cows and helping her to feel at home. Her cow's name is Brayleigh (#1009). Brayleigh was the leading top producer in cream this past semester. She can be sassy and loving at the same time. On cold mornings, Kailey finds warmth in Brayleigh's armpits!

A Short Piece: The Importance of Timing and Handling Semen for Successful Artificial Insemination written by Kailey!



On November 18th, 2023, Rachel Dubanoski, Assistant Farm Manager at the Fairchild Dairy Farm met with CREAMers to give a demonstration on Artificial Insemination. Through her years at the dairy, Rachel has improved the reproduction of the Fairchild Dairy with a current pregnancy rate of 32%. This is due to her strong background working with GENEX; a well-established company focusing on reproduction and genetics. This is where she was certified and trained many people in artificial insemination. During her demonstration, she went through the proper procedures of handling the straws of semen and how important timing is. She mentioned the main reasons why conception rates on dairy farms are low are most likely not due to cattle health, nutrition, or the actual breeding of the animal but due to improper timing and handling of semen. She explained that if the straws of semen are lifted above the neck of the semen tank for more than ten seconds, the semen will start to thaw and decrease in quality. To maintain viable and quality semen, she noted that once the straws are removed from the tank, the breeder has fifteen minutes to breed the cow. This is where she mentioned how important it is for proper timing and making sure that you only pull out the amount of straws you can use to breed a certain number of cows within that time frame. In addition, she mentioned how small details could cause the straws to thaw unevenly and impact the quality. Some examples she gave were using your fingers instead of tweezers to retrieve the straws as the heat from your fingers could cause the straws to thaw. In addition, she talked about how important it is to warm the insemination gun up before placing the straw in because this can also negatively impact the quality. During this time, she bred two cows out of the CREAM string, including Callum (1160) and Mousse (1093)

Creamer Bio's



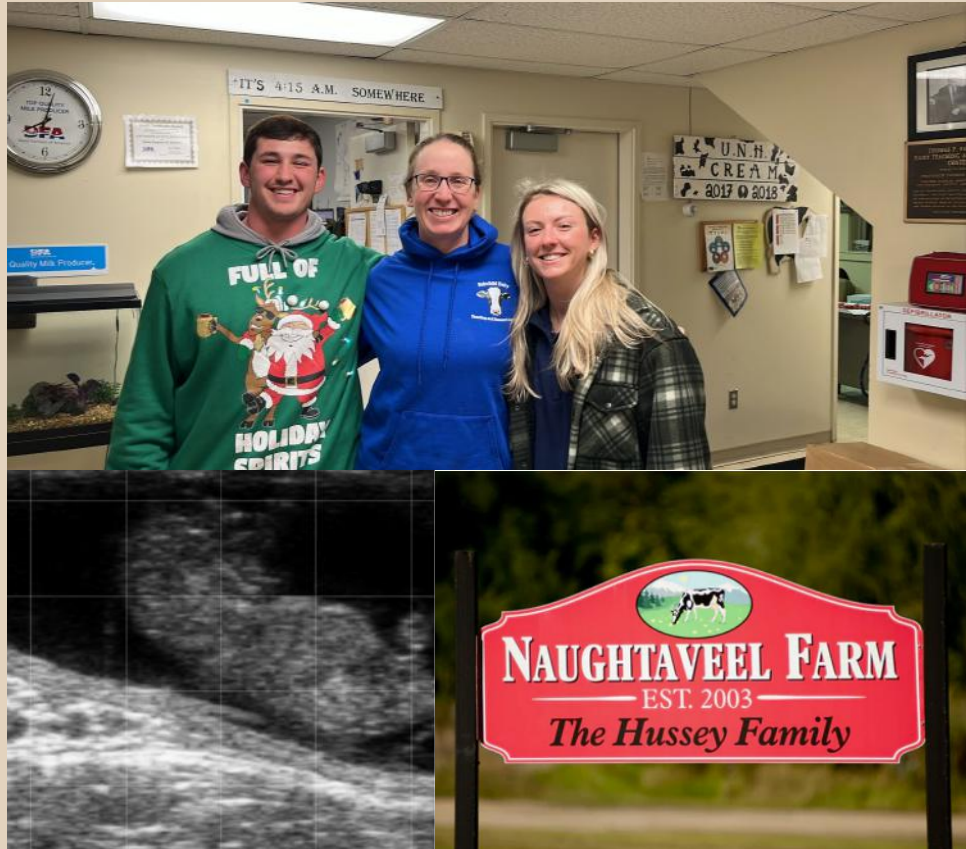
Cream Vice-President!

Ashley is a Animal Science Pre-Vet Major and she intends to apply to vet school and hopefully attend!

Ashley wanted to join CREAM because she heard a lot of alumni talk about it during the Careers in Animal Science class and they said it taught them a lot of good skills they needed entering the workforce, and it helps students stand out when applying to graduate schools.

Ashley enjoys just working with the cows, from working at the barn and doing CREAM she has come to love the cows and is even thinking about becoming a dairy cattle vet when she attends vet school. Ashley has been working at the barn since her sophomore year, and she started doing research there last semester, besides waking up super early it has been a great experience. But before coming to UNH she had never even seen a cow in person! Ashley's cow is Mousse (1093) she is a sweetheart who loves to be brushed and cuddled!

Recently Ashley and Will Coty shadowed Dr. Brock at Naughtaveel Farm!



The students got to spend time with Dr. Brock traveling there asking her important questions about vet school and previous jobs she had in the past working with cattle. Once they arrived they were introduced to Julie and Justin and Dr. Brock went straight to doing pregnancy checks on all the heifers and cows that they needed. Students were able to view the ultrasound via an app on their phone. The students got to see how Dr. Brock worked, how to read an ultrasound, and they got to learn a little more about what Julie and Justin do and how they ended up becoming dairy farmers!



Cream Fall Semester News Letter

Visit to Naughtaveel Farm

Will Coty

I am a senior majoring in Animal Science with pre-vet intent. Before this trip to the Naughtaveel farm, I had only seen myself become a companion animal veterinarian. However, after this incredible ride-a-long experience, I have begun to think more about becoming a large animal veterinarian. The great conversation on the ride up and back from the farm opened my eyes to becoming a large animal veterinarian, as did the interaction with the kind family of the Husseys. The Husseys were great, hard-working people who really cared about their cows and the operation they were running on their farm. I also immensely enjoyed seeing an ultrasound of a calf and an ultrasound completed. However, the coolest part of the trip was hearing about Julia's new gadget she uses to gain vital information from her cows to the palm of her hand via her phone and a bolus from inside the cow. Seeing how modern technology is used in the dairy industry was cool and exciting. I am ending my little excerpt about the trip by thanking Dr. Brock and the Husseys for allowing for such an informational and welcoming trip and opening my eyes to the experience of what being a large animal veterinarian entails!

Ashley Miske

I've always wanted to work with marine mammals but since I've been working with the cows, I was thinking about becoming a large animal or dairy cattle vet so I wanted to shadow Dr. Brock and see what being a dairy cattle vet is all about! The ride there she gave us a lot of information about applying to vet school and just other general questions we had about the field. Meeting Julie and Justin was great, they are very nice people and were very welcoming they gave us a lot of background information on their farm and how they ended up there. I thought it was really cool to see the ultrasound when Dr. Brock was doing pregnancy checks and she helped us with interpreting it which was nice because I've never read an ultrasound before! Overall the entire day was great Dr. Brock and the Husseys were very helpful and nice, and I think it will aid in my decision on what animal I want to work on in the future

INTRODUCING

DR. ELIZABETH BROCK, DVM

DR. BROCK IS A CO-TEACHING CREAM THIS YEAR WITH DR. CONROY



FUN FACTS ABOUT DR. BROCK

She graduated from UNH with a B.S. in Animal Science. She obtained both a M.S. in Soil Science and a Doctorate of Veterinary Medicine from Cornell University. She has been a professor at UNH since 2020. She was a CREAMer herself!

WHAT SHES LOOKING FORWARD TO MOST WITH CREAM

She is excited to be able to share her passion for dairy farming with students, watching the social-emotional learning that occurs, and watching the character and self-discovery that happens with students during the course

Us CREAMers are very excited that she has been apart of CREAM. She has been a great addition to the program with so much knowledge and passion! We are excited for another semester with her!



By: Madison Covil



Day In the Life of a CREAM Student

Lauren McNamara and Alexis Longey talk about their experiences in CREAM!

Lauren McNamara

I am a Junior, Marine, Estuarine, and Freshwater Biology Major on a Pre-Vet track. A fun fact about myself is that I have wanted to become an aquatic veterinarian since I was 8 years old!



What is it like to wake up at 3am for a barn shift?

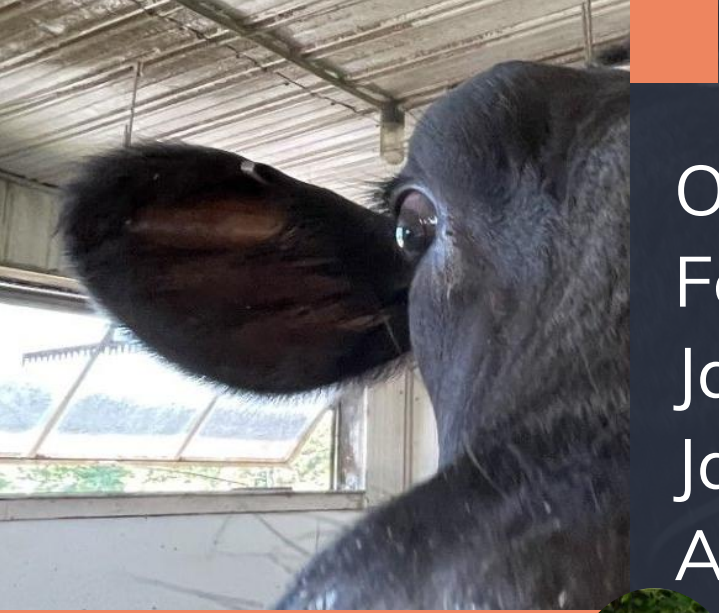
Previous to CREAM, I had never woken up this early before to work. I was not sure how well I was going to handle it as I am a person who really values their sleep. On the first 4:15am shift I was very much awake and ready to go! After a while though, I started dreading 4:15 am shifts, until I finally got comfortable with the chores and then I didn't mind as much. Now, it is kind of peaceful to wake up early and have no one else be awake yet. I like to be the first group of the day to see our cows and greet them good morning. I like knowing I already accomplished something for the day, and I feel proud walking back to my room and watching everyone else just starting to wake up. There is also no better feeling than taking a hot shower after a cold morning shift then sliding back into a warm bed for a few more hours of sleep.

Alexis Longey

I'm a senior animal science major with a zoology minor and a previous associates degree in veterinary technology. A fun fact about myself is I own a dog, two cats, two bearded dragons, a rabbit, a lovebird, and 6 chickens and also have two indoor greenhouses.



Melody is my CREAM cow for 2023-2024. I got lucky with this one, as she's one of the cleanest cows in the string without even trying and she was once one of the lowest producers! She recently calved in at the beginning of November to not one, but two calves, which was a shock to everyone. Melody was the first to have a set of twins for the 2023-2024 cream herd. Unfortunately, she had a bull and heifer, which meant there was high chance of the heifer being a freemartin. A freemartin is a heifer calf that is born twin to a bull calf and is often infertile with non-functioning ovaries. This happens due to the heifer getting anti-Mullerian hormone from the bull calf. During my research into the topic, I discovered that there is now a blood test you can send out to determine if the heifer actually is fertile or not. Since she has come back into the string, she is no longer the lowest producer (for now) and is one of the first cows in the string. In her free time, she likes to be the best cow in CREAM and to spend her fall afternoons flooding the feed bunk from her water bowl.



Other Cream Stories

Featuring pieces written by
Jackie Holmes,
Jayne Zaparaskas, and
Ashley Walters

Wildlife Rehabilitation
By Jackie Holmes



Not all the time do we work with cows during CREAM, we often meet other creatures while working on barn shift. On Saturday November 18th at about 5:30am, Tabby noticed a bird with a broken wing. Jayne, Ashley W, Tabby and I all kept an eye out for the bird, but unfortunately we later found out that the bird had died. Just one of the many animals that roam the barn!

Guest Lecture from Chuck Metcalf!
By Jayne Zaparaskas



On the planning committee we were interested in how the farm was inspected and what gets looked at aside from just milk quality. We reached out to Chuck Metcalf who is the milk inspector for the Fairchild Dairy Farm. Chuck visited our class along with Valerie Drown and started out by explaining why certain areas need to be inspected and what exactly they look for. We then went down to the barn and he and Valerie performed a mock inspection. We started in the milk room and learned that each door needed to close on its own, the walls and floors couldn't have any cracks or holes, the pipes and bulk tank must be clean, and the sanitizer must have a label on it. They said that the milk room should be considered the "clean room" and should be the cleanest room. We moved on to the milking parlor and they explained that they look inside the tubes of the milking machines to look for any kind of build up. They also check the post dip that is being used as well as the overall cleanliness of the parlor. The last place we looked at was the CREAM string. They look at the cleanliness of the stalls and the cows themselves. They also check the medicine cabinet to make sure everything is approved and has one vet prescribing each medication. During this guest lecture I learned a lot about how regulated the milk industry is. There were many things they looked for that I previously didn't know were mandatory on farms. It was eye opening to realize how safe our dairy products really are.

Holiday Party!
By Ashely Walters



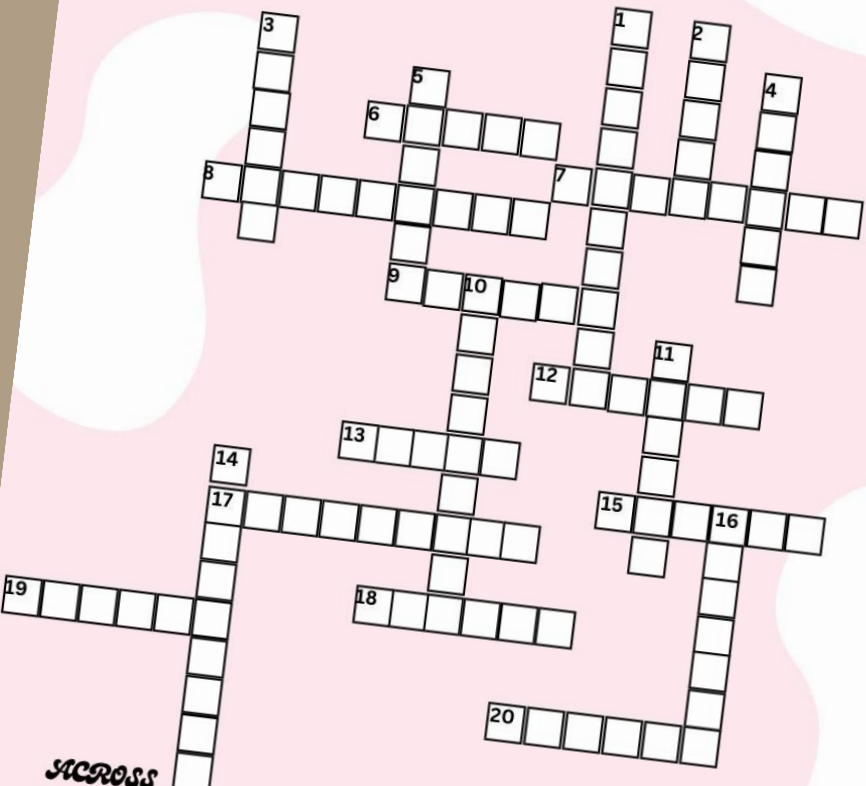
Back on October 26th, we took a little break from lectures and had a Halloween party! This was run by the social sub-committee. The social sub-committee mission is to help us get to know each other better so we can make a more efficient and communicable team. Tis the season, this party we painted pumpkins and ate Halloween candy. Giving the students a chance to express their creativity, or in some cases, rewriting biochemistry notes on them for preparation for their next exam. We all had a lot of fun and shared a lot of laughs. I am looking forward to the holiday party in mid-December to see what other fun activities we will do

MORE PUZZLES!



Made by Tabitha Nugent

CREAM Crossword



ACROSS

- 6. 1056.
- 7. 1073.
- 8. 938.
- 9. 965.
- 12. 1026.
- 13. 992.
- 15. 889.
- 17. 1127.
- 18. 1156.
- 19. 1093.
- 20. 1029.

DOWN

- 1. 1078
- 2. 988
- 3. 1138
- 4. 1160.
- 5. 1099
- 10. 1009
- 11. 1097
- 14. 991
- 16. 987

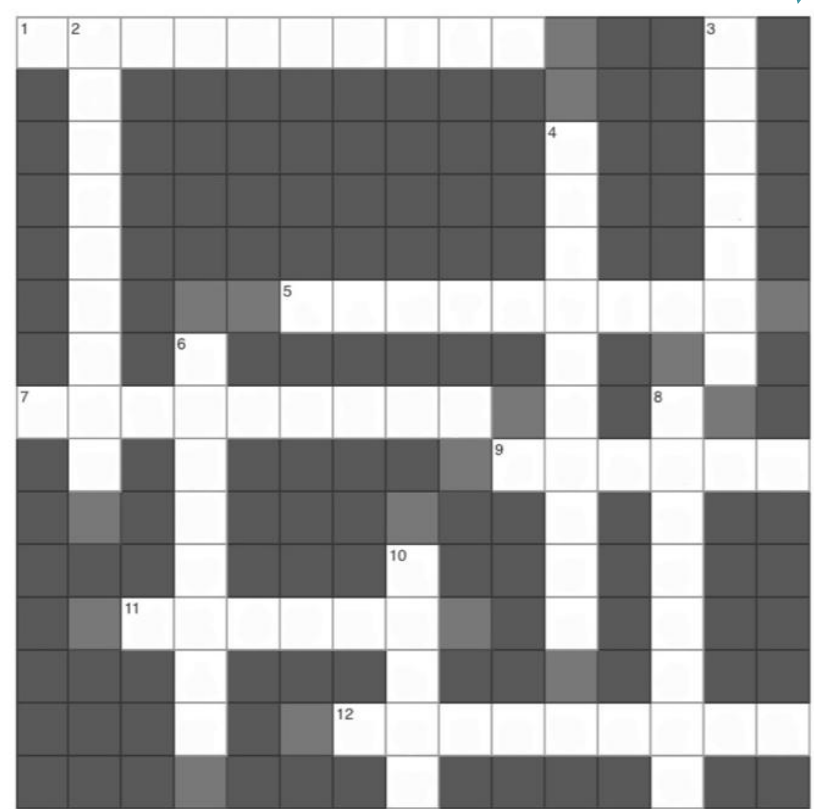


Made by Abby Church

CREAM Cow Word Search

E D E P I P W R S M W O C V O F Z E K I
 N N K I T Z C D B S N T W U O T Z L O H
 U N O U V Z R M E W B N L U G R C B M O
 X D U M T D A N D E L I O N V A W U T P
 H M Y O I M X F S T J P E A B S P O A P
 M S O P I S C A L L U M L R B F K R L E
 U R P L R G S S P M U L A F F E H T L R
 G A L L S V Q U U Z I Y Q Y V B Y R U X
 K E I C C U Y Q P T L M T C A B S L L L
 R R A M I Z N I R E R F O E T H T M A E
 K I T R C Z O O I V B X I U H M I G H G
 U I T E T L T G F K Y V A H S Z C M N C
 E L L L K I H J H E E X Q E L S K V Z E
 E K M L N C B B M Q L Z M S L D E Z J V
 A Q E I I W O B L H F C Z T E F H S B U
 L I H A E A I R A F F E T I D O R H P A
 H A O N W Z N N P R U C X A J D F J S K
 T B T L N U I S T K R S Y G Y D O L E M
 A T O S I L H O U E T T E C Z Z Q N V V
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- | | | | | |
|-----------|-----------|------------|-----------|---------|
| Killians | Groot | Melody | Mousse | Truffle |
| Hestia | Dandelion | Simone | Hopper | Tahini |
| Squirtle | Aioli | Pinto | Miller | Callum |
| Heffalump | Tallulah | Tortilla | Aphrodite | Winter |
| Rabbit | Brayleigh | Silhouette | Rocket | Stick |
| Trouble | | | | |



ACROSS

- 1 Drew's favorite word
- 5 The secretion of milk from a cows udders
- 7 A calves first meal
- 9 Plants or types of plants eaten by livestock
- 11 A female dairy cow that has yet to give birth
- 12 The name of our barn

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- 2 The process of encouraging health and growth of the cow through food
- 3 The #1 way we make a profit
- 4 The current barn manager
- 6 A dairy breed which is known for their high milk production
- 8 Prevents milk production
- 10 You may put this in your coffee



Made by Makena Benne

CREAM Crossword (12 clues in a 15 x 15 grid)

A Guide to Production Checks

By: Violet Hefner



A Guide to Herdsman Production Checks

Violet Hefner

Before



8 o'clock. Tonight, just like many others for the past few weeks, I am staying late after class to conduct the production check for tonight. Since the afternoon shift, the cows have still been active and need to be taken care of before the night is over. They have pushed around and sorted their feed, even dropping it on the floor. Cows should have feed in front of them at all times of the day. So I take the time to push up their feed, even

though some cows will immediately make a mess out of it again, as shown by Silhouette in the before and after pictures. I also count how many cows are eating, standing, laying, and chewing cud to know how comfortable they are.

During the production check, I am checking the temperatures of the fresh cows to make sure that they do not have a fever. The normal temperature of a cow is 101.5°F, but a fever is considered above 103°F.



Checking temperatures of fresh cows is very important because they can be very susceptible to illnesses, infectious and metabolic. I also sweep behind the CREAM string of cows, to clean up after them. Shavings get kicked around as they stand, lay, and move around, so I push it all into the drain. After all is done, I clean the thermometer, shut off the lights, and close the barn doors. For everything besides maybe a blanket and a bedtime story, the cows are all tucked in for the night.



After



LAMENESS UPDATE

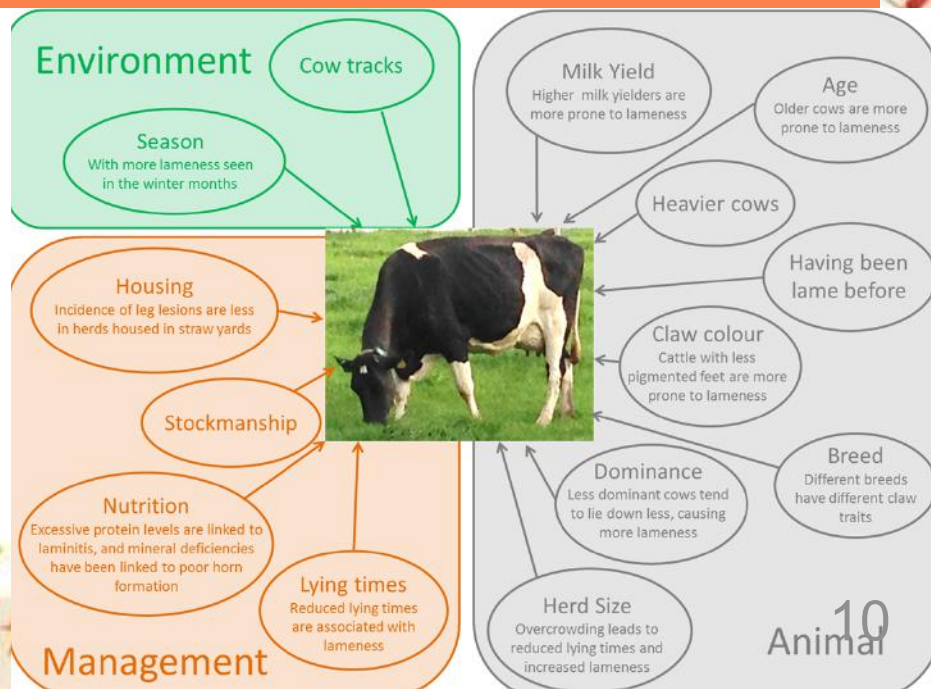
BY CHRISTOPHER ROTH



During the Fall semester of the 2023-2024 CREAM class, we have learned about the lameness in cattle and how it has a strong impact on the production and overall behavior of dairy cattle. Lameness is a condition that occurs when there are foot lesions due to either improper trimming or issues with the cows hoof that can create a lot of discomfort and pain for the cows. We have also learned how to identify cattle with lameness and how their behavior differs from a normal cow. Luckily, there haven't been issues with the cattle at this point as Jon Whitehouse, Manager of Fairchild Dairy has the hoof trimmer come in twice a year and just had the cattle trimmed in the fall of 2023. With the trimming came much improvement in the cows and overall behavior during the second week after the trimmer came. Our CREAMer's has also been more vigilante recently with looking out for the lameness signs in our cows and will point it out if anything looks out of the ordinary. It is very safe to say and also said with much pride that our CREAM cows are lameness free and have been very well behave with the proper hoof treatment they received. Here's how you can identify lameness in your own cattle:

STEP OP

0	Normal Stands and walks normally. Hind feet land almost exactly in same spot as fore feet.
1	Mildly Lamé Shortened stride, head dropped slightly. No limp when walking.
2	Moderately Lamé Slight head bob when walking. Head is dropped and back arched when standing.
3	Severely Lamé Constant arched back and head bob while walking. Great difficulty moving.



Heifer Vaccinations, Herd Health Subcommittee, and Another Day in the Life!

Herd Health by: Kaleigh Koester

The herd health subcommittee within the CREAM program has allowed students to get more involved and gain knowledge in the various medical procedures that take place at the Fairchild Dairy Research Center. The subcommittee meets every Tuesday to either discuss or attend a small lecture from invited speakers. So far, the committee has had the herds' veterinarian, Dr. Elder, come in to discuss the vaccine and overall health protocols for the herd, and the farm manager, Rachel Dubanoski, come in to discuss the details of the reproduction process at the farm. This committee has not only offered an opportunity for CREAM students to get leadership skills, it also has offered plenty of shadowing opportunities. The leaders of the committee have been able to gain and practice skills in scheduling and planning to expand their knowledge on topics they find interesting. This highlights one of the many benefits of the CREAM program. Students within this committee have also been able to shadow the breeding process and have plans to shadow herd health checks and CIDR placements. As a student within this committee, it is extremely rewarding to know you were a successful part of your education program



Heifer Vaccinations by Evan Daigle

You may have noticed orange paint on the heifers recently; Drew's Large Animal Handling and Behavior Class came in on Friday the 17th to vaccinate that part of the herd. While feeding you may have noticed they were less energetic as well, which is because of the many different vaccinations they received - similar to how you may feel after getting a shot. Namely these vaccines included those for BVDV 1 and 2, 5 strains of Leptospirosis, PI-3, BRSV, and IBR, though they were all administered in one injection.



Day In The Life by: Hayden Lynch

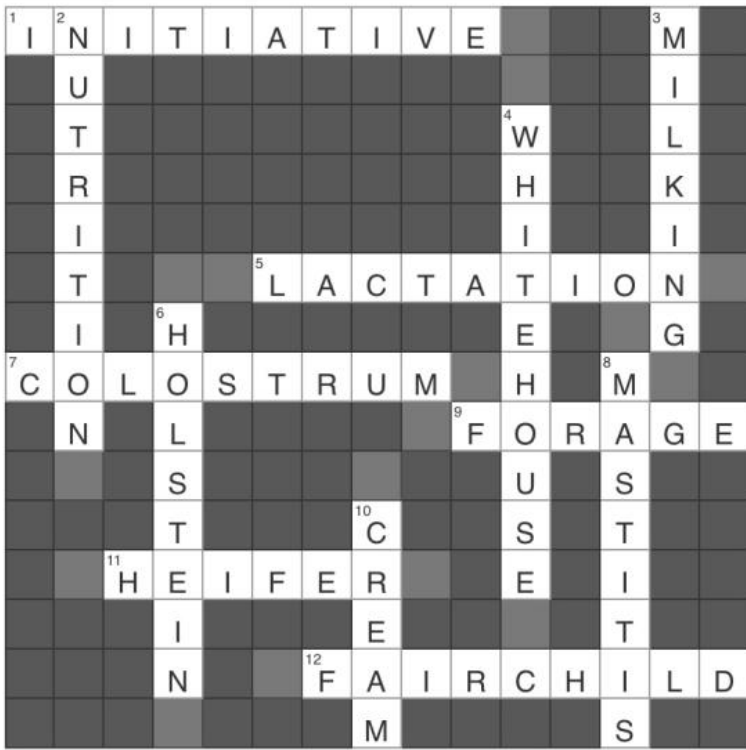


When I first began CREAM, I had no experience with cows beyond large animal handling with Dr. Conroy. I was unfamiliar with milking procedures, driving the JayLor, and how to handle cattle. I was coming off a summer internship of working with chickens, a big difference from the CREAM herd. I kept an open mind and tried to learn as much as I could quickly about handling the cows and techniques for the unique chores that CREAMers are responsible for.

By keeping my mind open and participating in committee work, I was able to gain experience with an animal that I would otherwise not have ever worked with. CREAM adds a valuable course to a student's transcript that gives knowledge and hands-on learning that no other course can match.

ANSWERS PAGE!

Here's what you need to know!



CREAM Crossword (12 clues in a 15 x 15 grid)

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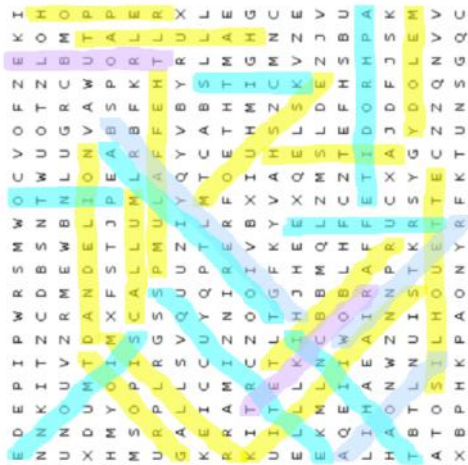
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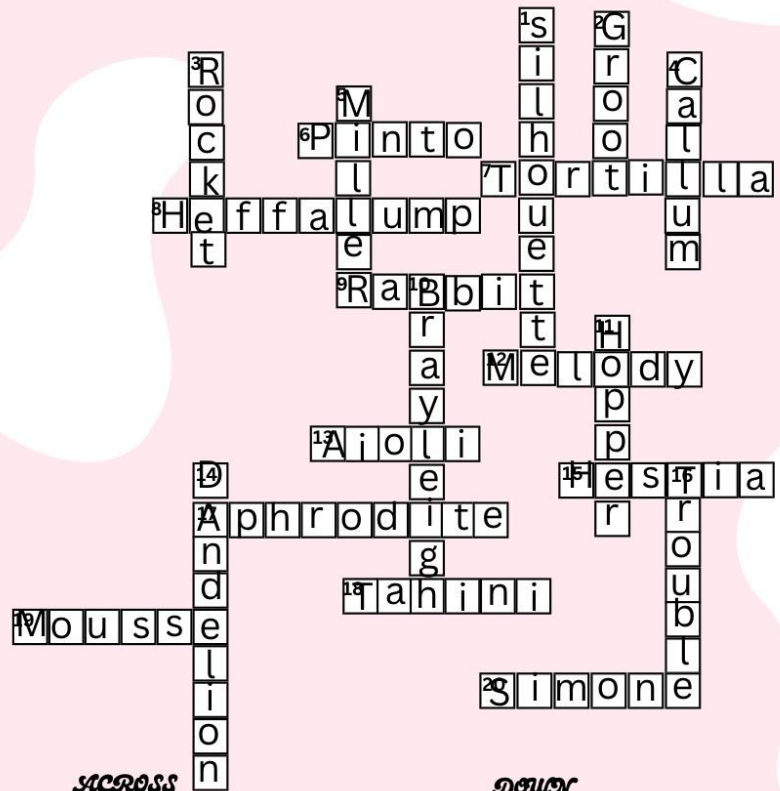
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CREAM Cow Word Search



CREAM Crossword



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