



Dairy Research and Teaching Facility



2025 Dairy Info Day

- 105-110 Cows
- Bulk Tank
 - 42.1 L/cow/day
 - 4.17% fat
 - 3.37% protein
 - 5.97% LOS

STAGE OF LACTATION PROFILE

Stage (Days)	Cows	Test Day Production M kg	Lactation Average				Somatic	Daily
			Milk kg	Current BCA			Cell	Fat
				М	F	Р	Count	Yield
1 - 44	15	43.9					103	1.79
45 - 99	17	50.9	13277	277	283	285	43	1.84
100 - 199	36	44.8	13261	297	305	308	121	1.69
200 - 305	31	42.7	13534	312	314	320	120	1.58
Over 305	7	36.0	13887	285	294	289	101	1.48
Dry	22	_	11993	271	295	285	-	_
						ALL	103	1.68

I ACTATION GROUP PROFILE



Parlour

- 60% milking herd
- 43.0 kg/day
- 180 DIM

AMS

- 40% milking herd
- 48.65 kg/day
- 160 DIM
- 2.5 visits/day





Update: 2x day milking

- Considering going back to 3x milking to slow down milk leaking to help prevent mastitis
- Separate groups for fresh cows for minimum 3 weeks post calving
 - Training eligible heifers to the robot
 - Previous robot cows return robot 3 days post calving



Calves

- Calves are fed 4 litres >25 BRIX colostrum within 2 hours of birth, and within 12 hours for second feeding
- Calves are fed transition milk for 3 days before being fed whole milk x2/day
- Kept feeding calves up to 8 kg/day, heavier feedings



Research Activity

2024/2025

- Improving characterization of barley grain in diets for dairy cattle (part 1 completed and results will be presented today, part 2 ongoing)
- Hybrid rye silage for dairy cattle (completed and results will be presented today)
- Complex forage blends (completed and results will be presented today)
- Evaluation of triple fermented products (ongoing)
- Partial mixed ration and pellet allocation in an AMS (ongoing)
- Characterization of uterine microbiome and its modulatory factors in postpartum cows (ongoing)



Research Activity

Future Projects

- Replacing barley grain with milling-type oats in high-producing lactating dairy cows (February, 2025)
- Evaluating a new rumen bypass Choline (March, 2025)
- DFC Cluster Developing an on-farm model to identify cows eligible for extended calving intervals based on individual peak milk yields and lactation persistency
- Dietary factors influencing urea recycling (TBD)
- Complex forage blends part 2 (TBD)
- Evaluating alfalfa based weaning strategies for calves (TBD)



Gallery

- 1000+ people walked through since September 2024
 - Vetavision, Ag in the Classroom, Schools (grades 1-12), University students, Government, 4-H clubs, etc.
- All pre-arranged tours are now guided
- Bulk tank training
- Expecting many more tour requests this spring/summer!





Class Participation

- ANBI 110 Introductory Animal Bioscience
- AGRIC 112 Introduction to Livestock Systems
- AGRIC 212 Livestock Systems
- ANSC 315 Animal and Poultry Nutrition
- ANSC 460 Advanced Dairy Management
- ANSC 863 Nutritional Consulting
- VLAC 493 Ruminant Management



Other activities

- Monthly article in the SaskMilk Newsletter
- Happy to receive article suggestions: greg.penner@usask.ca



A beef grading primer

G.B. Penner

Many dairy producers have included or are considering adding a beef production venture with their beef × dairy calves or their dairy steers. Growing and finishing programs impact the quality of the beef produced and could affect how to profitably market those cattle. This article will delve into the Canadian beef grading system and what the grades mean.



Facility Upgrades

- Legend rubber mats for cows on the AMS side
- New space heaters throughout barn
- Kubota tractor for feeding
- Bobcat
- Old dairy demolition, yard maintenance



Visitors and Feedback are Welcome

