



Dairy Research and Teaching Facility



Our shift to 2x day milking

September 1, 2022

- Separate groups for fresh cows (parlour vs. robot)
 - Training eligible heifers
- Also decreased milk feeding frequency to calves
 - 8 kg per day peak, encourage starter intake



2023 Dairy Info Day

STAGE OF LACTATION PROFILE

- 102-105 cows
- Bulk tank
 - 38.5 L/cow/day
 - 4.24% fat
 - 3.37% protein
 - 5.97% LOS

Stage (Days)		Test Day Production	Lactation Average				Daily	Prot/Fat
	Cows		Milk	Current BCA			Fat	Ratio
		M kg	kg	М	F	Р	Yield	
1 - 44	11	57.1					2.15	.84
45 - 99	19	51.6	13043	293	299	306	1.85	.89
100 - 199	36	46.2	12894	315	340	339	1.84	.88
200 - 305	23	43.3	13537	321	335	347	1.71	.93
Over 305	12	38.0	14350	321	324	339	1.69	.90
Dry	18	_	12750	282	300	304	_	_
						ALL	1.82	.89



January 2024

- 100-110 cows
- Bulk tank
 - 37 L/cow/day
 - 4.59% fat
 - 3.38% protein
 - 5.96% LOS

STAGE OF LACTATION PROFILE

	Cows	Test Day Production M kg	Lactation Average				Somatic	Daily
Stage (Days)			Milk kg	Current BCA			Cell	Fat
				М	F	Р	Count	Yield
1 - 44	18	43.8					74	1.76
45 - 99	18	45.3	11586	247	276	256	121	1.83
100 - 199	34	40.2	11562	267	302	280	97	1.66
200 - 305	31	37.2	12199	282	319	301	75	1.65
Over 305	7	33.0	13042	297	329	316	234	1.65
Dry	15	_	13386	283	300	298	-	_
						ALL	100	1.70



Parlour

- 70% milking herd
- 37.95 kg/day
- 150 DIM

AMS

- 30% milking herd
- 42.62 kg/day
- 200+ DIM
- 2.91 visits/day





Research Activity

2023/2024

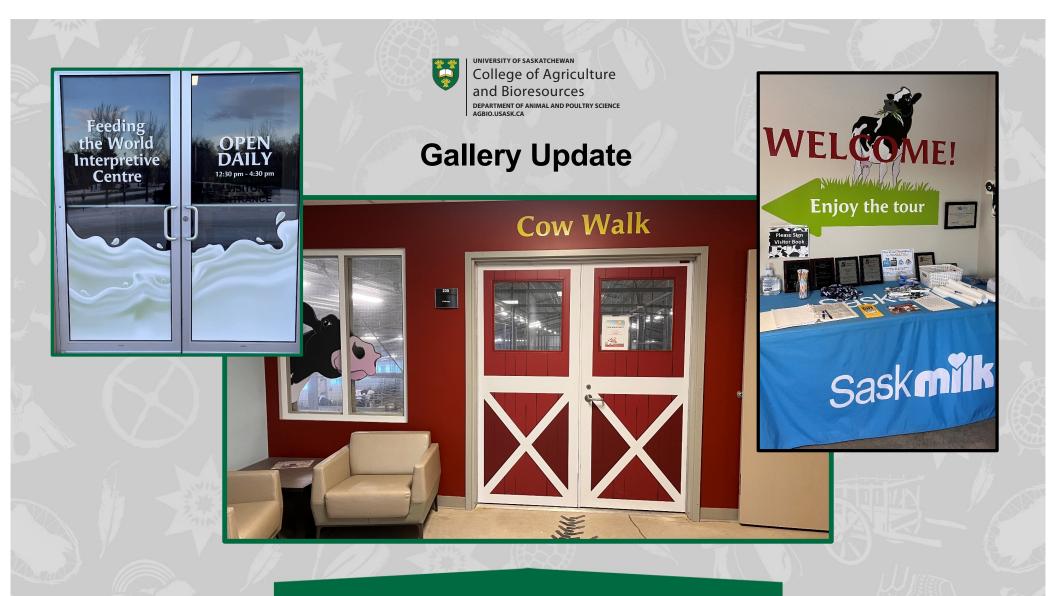
- Accelerating recovery from intramammary inflammation
- Improving utilization of barley grain with variable kernel size
- Effects of pelleting/allocation in an AMS part 1&2
- Polycrops for dairy cattle
- Hybrid rye silage for dairy cattle
- Blended fat stimulated feed products on rumen parameters and milk fat in dairy cows



Research Activity

Future Projects

- Characterization of uterine microbiome and its modulatory factors in postpartum cows
- 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
- Animal production performance with triple fermented products
- Evaluation of intercropping silage: dairy cow production







Thanks to SaskMilk!









Foot Traffic

Gallery

- Bulk tank training
- RME/Jaylor equipment demonstration
- SaskFood Story
- Global Saskatoon
- Classroom tours better than ever

Saskatchewan students get a closer look at the agriculture industry



By Brody Langager · Global News

Posted November 1, 2023 1:27 pm - Updated November 1, 2023 6:04 pm - 2 min read





Foot Traffic Class Participation

- ANSC 315 Animal and Poultry Nutrition
- ANSC 460 Advanced Dairy Management
- ANSC 863 Nutritional Consulting
- Groups of veterinary students (class and clinical settings)





Field trips to the Rayner

Cannulated cow demonstration

Guided tour of the facility on the cow walk

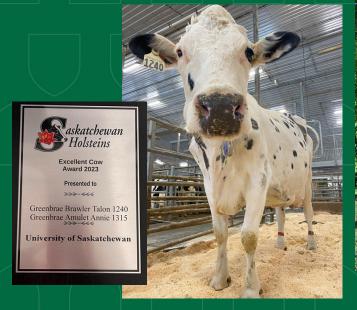
Looking at rumen bugs under the microscope

Biosecurity learning opportunity/food safety

Name a calf contest



Keeps getting better





askatchewan Holsteins

Award 2023 100,000 kg

