



QUEBEC

Benchmarks – Total protein & fat in milk

Table 1. Milk components by production level, lactation stage and milking frequency (2025) – Holstein herds

Production level		< 10 190 kg by lactation									10 190 to 11 310 kg by lactation									> 11 310 kg by lactation								
Days in milk		< 101			101-200			>200			< 101			101-200			>200			< 101			101-200			>200		
Milking freq.	Avg.*	Low 20%	Total	Top 20%	Low 20%	Total	Top 20%	Low 20%	Total	Top 20%	Low 20%	Total	Top 20%	Low 20%	Total	Top 20%	Low 20%	Total	Top 20%	Low 20%	Total	Top 20%	Low 20%	Total	Top 20%			
	2X	# herds	652									596									490							
Protein %		2.80	3.21	3.71	3.01	3.43	3.87	3.26	3.75	4.29	2.84	3.24	3.71	3.06	3.46	3.89	3.30	3.76	4.26	2.84	3.22	3.68	3.05	3.43	3.84	3.27	3.72	4.21
Fat %**		3.83	4.13	4.55	3.85	4.26	4.76	4.06	4.60	5.24	3.83	4.14	4.59	3.79	4.24	4.79	4.03	4.60	5.25	3.83	4.16	4.65	3.76	4.21	4.75	3.99	4.56	5.22
3X	# herds	6									18									70								
	Protein %	2.80	3.22	3.72	3.03	3.44	3.87	3.25	3.71	4.24	2.84	3.23	3.71	3.06	3.44	3.87	3.27	3.75	4.28	2.84	3.23	3.68	3.04	3.44	3.87	3.25	3.70	4.19
	Fat %**	4.00	4.22	4.62	3.91	4.31	4.83	4.00	4.59	5.23	3.96	4.25	4.70	3.90	4.30	4.82	4.09	4.61	5.23	3.88	4.25	4.77	3.77	4.24	4.79	3.94	4.54	5.22
Robot	# herds	41									85									139								
	Protein %	2.86	3.27	3.79	3.04	3.45	3.92	3.25	3.75	4.31	2.87	3.27	3.76	3.07	3.47	3.90	3.26	3.72	4.24	2.86	3.27	3.77	3.04	3.43	3.85	3.24	3.69	4.19
	Fat %**	3.78	4.10	4.52	3.84	4.27	4.83	4.03	4.63	5.37	3.81	4.12	4.63	3.74	4.20	4.79	3.93	4.55	5.28	3.79	4.15	4.69	3.71	4.18	4.73	3.91	4.53	5.20

* Average for the bottom 20%, total, and top 20% of cows based on total protein percentage

** Fat % corresponding to groups classified by total protein %



Table 2. Milk components by production level & lactation stage (2025) – Jersey herds

Production level		< 7 090 kg by lactation									7 090 to 8 050 kg by lactation									> 8 050 kg by lactation								
Days in milk		< 101			101-200			>200			< 101			101-200			>200			< 101			101-200			>200		
Milking freq.*	Avg.**	Low 20%	Total	Top 20%	Low 20%	Total	Top 20%	Low 20%	Total	Top 20%	Low 20%	Total	Top 20%	Low 20%	Total	Top 20%	Low 20%	Total	Top 20%	Low 20%	Total	Top 20%	Low 20%	Total	Top 20%			
	2X	# herds	25									21									21							
Prot. %		3.21	3.72	4.29	3.57	4.11	4.64	3.92	4.49	5.07	3.25	3.71	4.21	3.61	4.10	4.61	3.92	4.43	4.96	3.32	3.77	4.28	3.68	4.17	4.67	3.97	4.50	5.03
Fat %***		4.48	4.86	5.35	4.73	5.36	6.04	5.13	5.79	6.51	4.52	4.88	5.31	4.86	5.44	6.07	5.24	5.91	6.67	4.70	5.06	5.46	5.02	5.64	6.28	5.34	6.09	6.82

*Insufficient number of herds to produce reliable benchmarks for other milking frequencies.

** Average for the bottom 20%, total, and top 20% of cows based on total protein percentage.

*** Fat % corresponding to groups classified by total protein %