

CULLING AND REPLACEMENT RATES IN DAIRY HERDS (CANADA)

COWS	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Number of herds enrolled on a milk recording program	13,127	12,672	12,088	11,736	11,116	10,581	10,375	10,025	9,822	9,721
Number of cows	732,261	727,069	746,641	745,236	718,112	697,838	718,018	706,957	711,810	702,764

Culling Reasons	Number of cows	Total (%)	Number of cows	Total (%)	Number of cows	Total (%)	Number of cows	Total (%)	Number of cows	Total (%)	Number of cows	Total (%)	Number of cows	Total (%)	Number of cows	Total (%)	Number of cows	Total (%)	Number of cows	Total (%)
Reproductive	41,868	17%	47,346	17.1%	42,521	17.7%	51,334	17.6%	55,175	18.4%	57,508	18.3%	52,194	17.3%	49,568	15.5%	49,486	15.5%	54,230	15.5%
Mastitis	26,427	11%	29,572	10.7%	26,555	11.0%	32,709	11.2%	35,094	11.7%	34,558	11.0%	29,203	9.7%	27,025	8.5%	26,372	8.2%	33,141	9.4%
Feet and leg problems	14,948	6%	17,043	6.1%	15,459	6.4%	18,595	6.4%	20,296	6.8%	21,183	6.7%	18,832	6.2%	18,526	5.8%	19,108	6.0%	22,585	6.4%
Low milk production	22,913	9%	21,006	7.6%	16,868	7.0%	21,308	7.3%	22,860	7.6%	21,994	7.0%	17,997	6.0%	15,926	5.0%	15,613	4.9%	18,571	5.3%
Sickness	13,414	5%	14,816	5.3%	13,625	5.7%	15,520	5.3%	15,496	5.2%	15,360	4.9%	14,934	5.0%	14,510	4.5%	14,104	4.4%	16,079	4.6%
Injury to udder/teats	13,702	6%	13,537	4.9%	9,917	4.1%	11,577	4.0%	13,303	4.4%	14,976	4.8%	12,000	4.0%	11,390	3.6%	11,107	3.5%	13,181	3.8%
Injury/Accident	7,017	3%	8,779	3.2%	9,220	3.8%	10,505	3.6%	10,090	3.4%	10,209	3.2%	9,773	3.2%	9,600	3.0%	9,533	3.0%	10,613	3.0%
Old age	4,866	2%	6,006	2.2%	5,376	2.2%	6,269	2.2%	6,517	2.2%	6,152	2.0%	4,913	1.6%	4,549	1.4%	4,946	1.5%	5,631	1.6%
Difficult calving	-	0%	-	0.0%	-	0.0%	-	0.0%	518	0.2%	1,132	0.4%	1,418	0.5%	1,718	0.5%	1,796	0.6%	1,968	0.6%
Bad temperament	1,025	0%	1,235	0.4%	1,235	0.5%	1,700	0.6%	2,124	0.7%	2,515	0.8%	1,952	0.6%	1,714	0.5%	1,657	0.5%	2,177	0.6%
Conformation	71	0%	355	0.1%	844	0.5%	1,259	0.4%	1,651	0.5%	2,045	0.7%	1,946	0.6%	1,752	0.5%	1,615	0.5%	1,961	0.6%
Displaced abomasum	1,149	0%	1,400	0.5%	1,294	0.5%	1,597	0.5%	1,620	0.5%	1,738	0.6%	1,737	0.6%	1,722	0.5%	1,491	0.5%	1,567	0.4%
Milk fever	1,199	0%	1,452	0.5%	1,542	0.6%	1,627	0.6%	1,599	0.5%	1,517	0.5%	1,504	0.5%	1,572	0.5%	1,349	0.4%	1,653	0.5%
Slow milker	1,118	0%	1,366	0.5%	1,271	0.5%	1,579	0.5%	1,886	0.6%	2,157	0.7%	1,577	0.5%	1,233	0.4%	1,181	0.4%	1,546	0.4%
Arthritis	-	0%	-	0.0%	-	0.0%	-	0.0%	473	0.2%	933	0.3%	800	0.3%	818	0.3%	1,088	0.3%	1,070	0.3%
Pneumonia	-	0%	-	0.0%	-	0.0%	-	0.0%	187	0.1%	410	0.1%	692	0.2%	956	0.3%	1,022	0.3%	1,189	0.3%
Staph aureus	-	0%	-	0.0%	-	0.0%	-	0.0%	235	0.1%	501	0.2%	549	0.2%	645	0.2%	799	0.2%	804	0.2%
Leukosis	-	0%	-	0.0%	-	0.0%	-	0.0%	472	0.2%	983	0.3%	1,041	0.3%	1,042	0.3%	707	0.2%	1,049	0.3%
Low fat	126	0%	84	0.0%	61	0.0%	62	0.0%	107	0.0%	137	0.0%	103	0.0%	67	0.0%	60	0.0%	83	0.0%
Paratuberculose	-	0%	-	0.0%	-	0.0%	-	0.0%	19	0.0%	44	0.0%	45	0.0%	36	0.0%	57	0.0%	75	0.0%
Low protein	-	0%	31	0.0%	103	0.0%	104	0.0%	86	0.0%	68	0.0%	59	0.0%	65	0.0%	48	0.0%	36	0.0%
Unknown	38,809	16%	50,552	18.2%	41,198	17.1%	63,621	21.8%	59,075	19.7%	59,776	19.0%	58,167	19.3%	67,423	21.1%	79,326	24.8%	77,701	22.1%
Total culling reasons	188,652	76%	214,580	77.4%	187,089	77.7%	239,366	82.1%	248,883	82.9%	255,896	81.4%	231,436	76.7%	231,927	72.6%	242,465	75.8%	266,910	76.1%
Culling Rate	25.76%		29.51%		25.06%		32.12%		34.66%		36.67%		32.23%		32.81%		34.06%		37.98%	

Other reasons for replacement	Number of cows	Total (%)	Number of cows	Total (%)	Number of cows	Total (%)	Number of cows	Total (%)	Number of cows	Total (%)	Number of cows	Total (%)	Number of cows	Total (%)	Number of cows	Total (%)	Number of cows	Total (%)	Number of cows	Total (%)
Sold for Production																				
Dairy production	38,085	15.4%	43,337	15.6%	37,010	15.4%	35,151	12.1%	36,606	12.2%	39,582	12.6%	45,780	15.2%	52,101	16.3%	44,886	14.0%	48,404	13.8%
Exported	1,555	0.6%	2,692	1.0%	1,344	0.6%	534	0.2%	401	0.1%	1,202	0.4%	3,143	1.0%	8,695	2.7%	4,334	1.4%	5,028	1.4%
Transfers	404	0.2%	700	0.3%	773	0.3%	1,015	0.3%	333	0.1%	1,362	0.4%	1,649	0.5%	1,879	0.6%	2,317	0.7%	2,061	0.6%
Rented out	2,885	1.2%	468	0.2%	726	0.3%	970	0.3%	669	0.2%	564	0.2%	521	0.2%	752	0.2%	717	0.2%	789	0.2%
Mortality																				
Poison	299	0.1%	307	0.1%	373	0.2%	395	0.1%	431	0.1%	373	0.1%	379	0.1%	407	0.1%	368	0.1%	350	0.1%
Peritonitis	-	0.0%	-	0.0%	-	0.0%	-	0.0%	124	0.0%	259	0.1%	309	0.1%	363	0.1%	327	0.1%	327	0.1%
Bloat	148	0.1%	126	0.0%	92	0.0%	111	0.0%	88	0.0%	127	0.0%	134	0.0%	123	0.0%	123	0.0%	145	0.0%
Electrocution	24	0.0%	67	0.0%	17	0.0%	54	0.0%	27	0.0%	33	0.0%	43	0.0%	47	0.0%	44	0.0%	33	0.0%
Others	15,373	6.2%	14,857	5.4%	13,337	5.5%	13,865	4.8%	12,813	4.3%	15,027	4.8%	18,221	6.0%	23,288	7.3%	24,108	7.5%	26,836	7.6%
Total other reasons for replacement	58,773	24%	62,554	22.6%	53,672	22.3%	52,095	17.9%	51,492	17.1%	58,529	18.6%	70,179	23.3%	87,655	27.4%	77,224	24.2%	83,973	23.9%
Total Replacement Rate¹	33.79%		38.12%		32.25%		39.11%		41.83%		45.06%		42.01%		45.21%		44.91%		49.93%	

- Nil

¹ Includes total culling reasons and total other reasons

Source: CanWest DHI and Valacta

Calculations done by AAFC-AID, Dairy Section