



CULLING RATE AND REPLACEMENT RATE IN DAIRY HERDS (CANADA)

COWS	2002		2003		2004		2005		2006		2007		2008	
Number of herds enrolled on recording program	12,672		12,088		11,736		11,116		10,581		10,375		10,025	
Number of cows	727,069		746,641		745,236		718,112		697,838		718,018		706,957	

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 (%)
Low milk production	21,006	12.8%	16,868	11.6%	21,308	12.1%	22,860	12.1%	21,994	11.2%	17,997	10.4%	15,996	9.8%
Conformation	355	0.2%	844	0.6%	1,259	0.7%	1,651	0.9%	2,045	1.0%	1,946	1.1%	1,752	1.1%
Bad temperament	1,235	0.8%	1,235	0.8%	1,700	1.0%	2,124	1.1%	2,515	1.3%	1,952	1.1%	1,714	1.0%
Slow milker	1,366	0.8%	1,271	0.9%	1,579	0.9%	1,886	1.0%	2,157	1.1%	1,577	0.9%	1,233	0.8%
Low protein	31	0.0%	103	0.1%	104	0.1%	86	0.0%	68	0.0%	59	0.0%	65	0.0%
Low fat	84	0.1%	61	0.0%	62	0.0%	107	0.1%	137	0.1%	103	0.1%	67	0.0%
Reproductive	47,346	28.9%	42,521	29.1%	51,334	29.2%	55,175	29.1%	57,508	29.4%	52,194	30.2%	49,568	30.3%
Mastitis	29,572	18.0%	26,555	18.2%	32,709	18.6%	35,094	18.5%	34,558	17.7%	29,203	16.9%	27,025	16.5%
Feet & leg problems	17,043	10.4%	15,459	10.6%	18,595	10.6%	20,296	10.7%	21,183	10.8%	18,832	10.9%	18,526	11.3%
Sickness	14,816	9.0%	13,625	9.3%	15,520	8.8%	15,496	8.2%	15,360	7.8%	14,934	8.7%	14,510	8.9%
Injury/Accident	8,779	5.4%	9,220	6.3%	10,505	6.0%	10,090	5.3%	10,209	5.2%	9,773	5.7%	9,600	5.9%
Injury to udder/teats	13,537	8.3%	9,917	6.8%	11,577	6.6%	13,303	7.0%	14,976	7.7%	12,000	7.0%	11,390	7.0%
Old age	6,006	3.7%	5,376	3.7%	6,269	3.6%	6,517	3.4%	6,152	3.1%	4,913	2.8%	4,549	2.8%
Displaced abomasum	1,400	0.9%	1,294	0.9%	1,597	0.9%	1,620	0.9%	1,738	0.9%	1,737	1.0%	1,722	1.1%
Leukosis	-	0.0%	-	0.0%	-	0.0%	472	0.2%	983	0.5%	1,041	0.6%	1,042	0.6%
Milk fever	1,452	0.9%	1,542	1.1%	1,627	0.9%	1,599	0.8%	1,517	0.8%	1,504	0.9%	1,572	1.0%
Arthritis	-	0.0%	-	0.0%	-	0.0%	473	0.2%	933	0.5%	800	0.5%	818	0.5%
Difficult calving	-	0.0%	-	0.0%	-	0.0%	518	0.3%	1,132	0.6%	1,418	0.8%	1,718	1.1%
Paratuberculosis	-	0.0%	-	0.0%	-	0.0%	19	0.0%	44	0.0%	45	0.0%	36	0.0%
Staph aureus	-	0.0%	-	0.0%	-	0.0%	235	0.1%	501	0.3%	549	0.3%	645	0.4%
Total culling reasons	164,028	100%	145,891	100%	175,745	100%	189,621	100%	195,710	100%	172,577	100%	163,548	100%
Culling Rate	23%		20%		24%		26%		28%		24%		23%	

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 (%)
Dairy production	43,337	38.3%	37,010	39.0%	35,151	30.4%	36,606	33.1%	39,582	33.3%	45,780	35.5%	52,101	33.4%
Rented out	468	0.4%	726	0.8%	970	0.8%	669	0.6%	564	0.5%	521	0.4%	752	0.5%
Exported	2,692	2.4%	1,344	1.4%	534	0.5%	401	0.4%	1,202	1.0%	3,143	2.4%	8,695	5.6%
Transfers	700	0.6%	773	0.8%	1,015	0.9%	333	0.3%	1,362	1.1%	1,649	1.3%	1,879	1.2%
Others	65,909	58.3%	55,017	58.0%	78,046	67.4%	72,745	65.7%	76,005	64.0%	77,945	60.4%	92,607	59.4%
Total other reasons for replacement	113,106	100%	94,870	100%	115,716	100%	110,754	100%	118,715	100%	129,038	100%	156,034	100%
Replacement rate of herd¹	38%		32%		39%		42%		45%		42%		45%	

- Nil

¹ Includes total culling reasons as well as total other reasons for replacement

Source: CanWest DHI & Valacta

Calculations done by AAFC-AID, Dairy Section