

## CULLING RATE AND REPLACEMENT RATE IN DAIRY HERDS (CANADA)

COWS	2003		2004		2005		2006		2007		2008		2009	
Number of herds enrolled on recording program	12,088		11,736		11,116		10,581		10,375		10,025		9,822	
Number of cows	746,641		745,236		718,112		697,838		718,018		706,957		711,810	
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	16,868	11.6%	21,308	12.1%	22,860	12.1%	21,994	11.2%	17,997	10.4%	15,996	9.8%	15,613	9.6%
Conformation	844	0.6%	1,259	0.7%	1,651	0.9%	2,045	1.0%	1,946	1.1%	1,752	1.1%	1,615	1.0%
Bad temperament	1,235	0.8%	1,700	1.0%	2,124	1.1%	2,515	1.3%	1,952	1.1%	1,714	1.0%	1,657	1.0%
Slow milker	1,271	0.9%	1,579	0.9%	1,886	1.0%	2,157	1.1%	1,577	0.9%	1,233	0.8%	1,181	0.7%
Low protein	103	0.1%	104	0.1%	86	0.0%	68	0.0%	59	0.0%	65	0.0%	48	0.0%
Low fat	61	0.0%	62	0.0%	107	0.1%	137	0.1%	103	0.1%	67	0.0%	60	0.0%
Reproductive	42,521	29.1%	51,334	29.2%	55,175	29.1%	57,508	29.4%	52,194	30.2%	49,568	30.3%	49,486	30.5%
Mastitis	26,555	18.2%	32,709	18.6%	35,094	18.5%	34,558	17.7%	29,203	16.9%	27,025	16.5%	26,372	16.3%
Feet & leg problems	15,459	10.6%	18,595	10.6%	20,296	10.7%	21,183	10.8%	18,832	10.9%	18,526	11.3%	19,108	11.8%
Sickness	13,625	9.3%	15,520	8.8%	15,496	8.2%	15,360	7.8%	14,934	8.7%	14,510	8.9%	14,104	8.7%
Injury/Accident	9,220	6.3%	10,505	6.0%	10,090	5.3%	10,209	5.2%	9,773	5.7%	9,600	5.9%	9,533	5.9%
Injury to udder/teats	9,917	6.8%	11,577	6.6%	13,303	7.0%	14,976	7.7%	12,000	7.0%	11,390	7.0%	11,107	6.9%
Old age	5,376	3.7%	6,269	3.6%	6,517	3.4%	6,152	3.1%	4,913	2.8%	4,549	2.8%	4,946	3.1%
Displaced abomasum	1,294	0.9%	1,597	0.9%	1,620	0.9%	1,738	0.9%	1,737	1.0%	1,722	1.1%	1,491	0.9%
Leukosis	-	0.0%	-	0.0%	472	0.2%	983	0.5%	1,041	0.6%	1,042	0.6%	707	0.4%
Milk fever	1,542	1.1%	1,627	0.9%	1,599	0.8%	1,517	0.8%	1,504	0.9%	1,572	1.0%	1,349	0.8%
Arthritis	-	0.0%	-	0.0%	473	0.2%	933	0.5%	800	0.5%	818	0.5%	1,088	0.7%
Difficult calving	-	0.0%	-	0.0%	518	0.3%	1,132	0.6%	1,418	0.8%	1,718	1.1%	1,796	1.1%
Paratuberculosis	-	0.0%	-	0.0%	19	0.0%	44	0.0%	45	0.0%	36	0.0%	57	0.0%
Staph aureus	-	0.0%	-	0.0%	235	0.1%	501	0.3%	549	0.3%	645	0.4%	799	0.5%
<b>Total culling reasons</b>	<b>145,891</b>	<b>100%</b>	<b>175,745</b>	<b>100%</b>	<b>189,621</b>	<b>100%</b>	<b>195,710</b>	<b>100%</b>	<b>172,577</b>	<b>100%</b>	<b>163,548</b>	<b>100%</b>	<b>162,117</b>	<b>100%</b>
<b>Culling Rate</b>	<b>20%</b>		<b>24%</b>		<b>25%</b>		<b>27%</b>		<b>25%</b>		<b>23%</b>		<b>23%</b>	
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	37,010	39.0%	35,151	30.4%	36,606	33.1%	39,582	33.3%	45,780	35.5%	52,101	33.4%	44,886	28.5%
Rented out	726	0.8%	970	0.8%	669	0.6%	564	0.5%	521	0.4%	752	0.5%	717	0.5%
Exported	1,344	1.4%	534	0.5%	401	0.4%	1,202	1.0%	3,143	2.4%	8,695	5.6%	4,334	2.8%
Transfers	773	0.8%	1,015	0.9%	333	0.3%	1,362	1.1%	1,649	1.3%	1,879	1.2%	2,317	1.5%
Others	55,017	58.0%	78,046	67.4%	72,745	65.7%	76,005	64.0%	77,945	60.4%	92,607	59.4%	105,318	66.8%
<b>Total other reasons for replacement</b>	<b>94,870</b>	<b>100%</b>	<b>115,716</b>	<b>100%</b>	<b>110,754</b>	<b>100%</b>	<b>118,715</b>	<b>100%</b>	<b>129,038</b>	<b>100%</b>	<b>156,034</b>	<b>100%</b>	<b>157,572</b>	<b>100%</b>
<b>Replacement rate of herd<sup>1</sup></b>	<b>33%</b>		<b>39%</b>		<b>40%</b>		<b>44%</b>		<b>43%</b>		<b>45%</b>		<b>45%</b>	

- Nil

<sup>1</sup> Includes total culling reasons as well as total other reasons for replacement

Source: CanWest DHI & Valacta

Calculations done by AAFC-AID, Dairy Section

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