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Base Change Summary - January 2010

Each year, the genetic base used to express genetic evaluations in Canada is updated in conjunction with the first official release. The definition of each genetic base used is therefore as follows:

Breed(s)	Traits	Genetic Base Definition Used		
All	Production	Cows born during a 3-year period centred seven years ago (2002, 2003 or 2004) that have test day records in the Canadian Test Day Model genetic evaluation analysis.		
Holstein	Conformation	Proven bulls born in the most recent complete 10-year period (1995 to 2004).		
Coloured	Conformation	Proven bulls born in the most recent complete 15-year period (1990 to 2004). For Canadienne and Milking Shorthorn breeds, the base period starts with proven bulls born in 1984.		

The table below indicates the amount of base change realized in 2010 compared to 2009 for each trait and breed.

	AY	BS	CN	GU	НО	JE	MS
LPI ¹	101	19	-48	0	144	91	-37
Milk (kg)	35	72	-19	61	90	35	9
Fat (kg)	1.6	3.5	-1.0	3.7	1.9	1.3	0.1
Protein (kg)	1.7	2.6	-0.4	2.1	2.6	1.2	0.2
Conformation	.76	.42	.00	.21	.72	.41	.35
Mammary System	.78	.31	.00	.12	.77	.47	.25
Feet & Legs	.62	.25	.00	.22	.42	.33	.01
Dairy Strength	.45	.53	.00	.23	.48	.21	.34
Rump	.41	.42	.00	.19	.04	.08	.13
Herd Life ²	.33	22	.13	16	.25	.30	20
Somatic Cell Score ³	02	.01	.01	.00	03	02	.00
Daughter Fertility ²	23	09	.00	29	30	.24	.00

Base Changes for 2010 Versus 2009

Base change for LPI is based on a direct calculation as for each of the individual traits.
Traits expressed on scale of Relative Breeding Values.

3 – For Somatic Cell Score only, negative base change values represent a desirable trend in genetic progress.