

**Average Gain in LPI Reliability Due to Genomics**  
 - April 2013 -

Sub-Group for Holstein Breed	Average LPI Reliability (%)			
	Traditional	Genomics	Gain	DGV Weight
50K Young Bulls and Heifers (Born 2010-2012)	38	70	32	65%
LD (3K or 6K) Heifers (Born 2011-2013)	34	67	33	66%
LD Younger Cows in 1st or 2nd Lactation	50	69	19	58%
LD Foreign Cows with MACE in Canada	42	69	27	62%
1st Crop Proven Sires in Canada	85	90	5	51%
Foreign Sires with MACE in Canada	69	83	14	55%

Sub-Group for Jersey Breed	Average LPI Reliability (%)			
	Traditional	Genomics	Gain	DGV Weight
50K Young Bulls and Heifers (Born 2010-2012)	32	47	15	59%
LD (3K or 6K) Heifers (Born 2011-2013)	29	44	15	60%
Younger Cows in 1st or 2nd Lactation (50K)	53	58	5	52%
Foreign Cows with MACE in Canada	39	51	12	57%
1st Crop Proven Sires in Canada	80	83	3	51%
Foreign Sires with MACE in Canada	70	76	6	52%

Sub-Group for Brown Swiss Breed	Average LPI Reliability (%)			
	Traditional	Genomics	Gain	DGV Weight
50K Young Bulls and Heifers (Born 2010-2012)	29	41	12	59%
LD (3K or 6K) Heifers (Born 2011-2013)	28	39	11	58%
Younger Cows in 1st or 2nd Lactation	44	49	5	53%
Foreign Cows with MACE in Canada	38	46	8	55%
1st Crop Proven Sires in Canada	67	72	5	52%
Foreign Sires with MACE in Canada	66	71	5	52%

Sub-Group for Ayrshire Breed	Average LPI Reliability (%)			
	Traditional	Genomics	Gain	DGV Weight
50K Young Bulls and Heifers (Born 2010-2012)	33	35	2	51%
LD (3K or 6K) Heifers (Born 2011-2013)	31	34	3	52%
Younger Cows in 1st or 2nd Lactation	47	48	1	51%
1st Crop Proven Sires in Canada	77	78	1	50%
Foreign Sires with MACE in Canada	67	69	2	51%

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