

**Average Gain in LPI Reliability Due to Genomics  
 - AUGUST 2014 -**

Sub-Group for Holstein Breed	Average LPI Reliability (%)			
	Traditional	Genomics	Gain	DGV Weight
≥50K Young Bulls and Heifers with a Proven Sire	40	73	33	65%
≥50K Young Bulls and Heifers with a GPA LPI Sire (GYS)	36	67	31	65%
Heifers with LD Genotype (Born 2012-2014)	34	68	34	67%
Younger Cows in 1st or 2nd Lactation with LD Genotype	51	72	21	59%
LD Foreign Cows with MACE in Canada	41	71	30	63%
1st Crop Progeny Proven Sires in Canada	86	91	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 with a Proven Sire	35	54	19	61%
Heifers with LD Genotype (Born 2012-2014)	28	47	19	63%
Younger Cows in 1st or 2nd Lactation with LD Genotype	51	56	5	52%
Foreign Cows with MACE in Canada	39	56	17	59%
1st Crop Proven Sires in Canada	78	83	5	52%
Foreign Sires with MACE in Canada	70	77	7	52%

Sub-Group for Brown Swiss Breed	Average LPI Reliability (%)			
	Traditional	Genomics	Gain	DGV Weight
≥50K Young Bulls and Heifers with a Proven Sire	31	53	22	63%
Heifers with LD Genotype (Born 2012-2014)	29	51	22	64%
Younger Cows in 1st or 2nd Lactation with LD Genotype	44	56	12	56%
Foreign Cows with MACE in Canada	39	57	18	59%
1st Crop Proven Sires in Canada	67	76	9	53%
Foreign Sires with MACE in Canada	62	72	10	54%

Sub-Group for Ayrshire Breed	Average LPI Reliability (%)			
	Traditional	Genomics	Gain	DGV Weight
≥50K Young Bulls and Heifers with a Proven Sire	36	38	2	51%
Heifers with LD Genotype (Born 2012-2014)	29	33	4	53%
Younger Cows in 1st or 2nd Lactation with LD Genotype	46	47	1	51%
1st Crop Proven Sires in Canada	78	79	1	50%
Foreign Sires with MACE in Canada	65	68	3	51%