

**Average Gain in LPI Reliability Due to Genomics
 - DECEMBER 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	68	32	65%
Heifers with LD Genotype (Born 2012-2014)	34	69	35	67%
Younger Cows in 1st or 2nd Lactation with LD Genotype	51	72	21	59%
LD Foreign Cows with MACE in Canada	42	71	29	63%
1st Crop Progeny Proven Sires in Canada	87	89	2	51%
Foreign Sires with MACE in Canada	69	84	15	55%

Sub-Group for Jersey Breed	Average LPI Reliability (%)			
	Traditional	Genomics	Gain	DGV Weight
≥50K Young Bulls and Heifers with a Proven Sire	35	57	22	62%
Heifers with LD Genotype (Born 2012-2014)	29	51	22	64%
Younger Cows in 1st or 2nd Lactation with LD Genotype	52	62	10	54%
Foreign Cows with MACE in Canada	40	58	18	59%
1st Crop Proven Sires in Canada	80	82	2	51%
Foreign Sires with MACE in Canada	70	75	5	52%

Sub-Group for Brown Swiss Breed	Average LPI Reliability (%)			
	Traditional	Genomics	Gain	DGV Weight
≥50K Young Bulls and Heifers with a Proven Sire	28	53	25	65%
Heifers with LD Genotype (Born 2012-2014)	29	52	23	64%
Younger Cows in 1st or 2nd Lactation with LD Genotype	46	61	15	57%
Foreign Cows with MACE in Canada	40	57	17	59%
1st Crop Proven Sires in Canada	69	75	6	52%
Foreign Sires with MACE in Canada	62	69	7	53%

Sub-Group for Ayrshire Breed	Average LPI Reliability (%)			
	Traditional	Genomics	Gain	DGV Weight
≥50K Young Bulls and Heifers with a Proven Sire	37	47	10	56%
Heifers with LD Genotype (Born 2012-2014)	31	43	12	58%
Younger Cows in 1st or 2nd Lactation with LD Genotype	47	57	10	55%
1st Crop Proven Sires in Canada	78	79	1	50%
Foreign Sires with MACE in Canada	65	69	4	51%