



**Average Gain in LPI and Pro\$ Reliability  
Due to Genomics  
- APRIL 2023 -**

Sub-Group for the <b>HOLSTEIN</b> Breed	Average LPI and Pro\$ Reliability (%)		
	Traditional	Genomics	Gain
≥50K Young Bulls and Heifers with a Proven Sire	39	78	39
≥50K Young Bulls and Heifers with an Unproven Sire	37	75	38
Heifers with LD Genotype (Born 2021-2023)	34	75	41
Younger Cows in 1 <sup>st</sup> or 2 <sup>nd</sup> Lactation with LD Genotype	49	79	30
Foreign Cows with MACE in Canada	38	78	40
First Crop Progeny Proven Sires in Canada	83	91	8
Foreign Sires with MACE in Canada	69	87	18

Sub-Group for the <b>JERSEY</b> Breed	Average LPI and Pro\$ Reliability (%)		
	Traditional	Genomics	Gain
≥50K Young Bulls and Heifers with a Proven Sire	31	52	21
Heifers with LD Genotype (Born 2021-2023)	25	48	23
Younger Cows in 1 <sup>st</sup> or 2 <sup>nd</sup> Lactation with LD Genotype	46	64	18
Foreign Cows with MACE in Canada	32	53	21
First Crop Progeny Proven Sires in Canada	77	82	5
Foreign Sires with MACE in Canada	63	72	9

Sub-Group for the <b>BROWN SWISS</b> Breed	Average LPI Reliability (%)		
	Traditional	Genomics	Gain
≥50K Young Bulls and Heifers with a Proven Sire	29	52	23
Heifers with LD Genotype (Born 2021-2023)	25	50	25
Younger Cows in 1 <sup>st</sup> or 2 <sup>nd</sup> Lactation with LD Genotype	45	63	18
Foreign Cows with MACE in Canada	33	55	22
First Crop Progeny Proven Sires in Canada	66	78	12
Foreign Sires with MACE in Canada	60	71	11

Sub-Group for the <b>AYRSHIRE</b> Breed	Average LPI Reliability (%)		
	Traditional	Genomics	Gain
≥50K Young Bulls and Heifers with a Proven Sire	30	44	14
Heifers with LD Genotype (Born 2021-2023)	24	39	15
Younger Cows in 1 <sup>st</sup> or 2 <sup>nd</sup> Lactation with LD Genotype	45	55	10
First Crop Progeny Proven Sires in Canada	79	81	2
Foreign Sires with MACE in Canada	66	72	6

Sub-Group for <b>GUERNSEY</b> Breed	Average LPI Reliability (%)		
	Traditional	Genomics	Gain
Young Bulls and Heifers with a Proven Sire	23	27	4
First Crop Progeny Proven Sires in Canada	56	60	4
Foreign Sires with MACE in Canada	51	55	4