



Average Gain in LPI and Pro\$ Reliability Due to Genomics

August 2021

Sub-Group for the HOLSTEIN Breed	Average LPI and Pro\$ Reliability (%)		
	Traditional	Genomics	Gain
≥50K Young Bulls and Heifers with a Proven Sire	41	78	37
≥50K Young Bulls and Heifers with an Unproven Sire	38	74	36
Heifers with LD Genotype (Born 2019-2021)	31	74	43
Younger Cows in 1 st or 2 nd Lactation with LD Genotype	50	78	28
Foreign Cows with MACE in Canada	39	77	38
First Crop Progeny Proven Sires in Canada	83	91	8
Foreign Sires with MACE in Canada	67	86	19

Sub-Group for the JERSEY Breed	Average LPI and Pro\$ Reliability (%)		
	Traditional	Genomics	Gain
≥50K Young Bulls and Heifers with a Proven Sire	33	53	20
Heifers with LD Genotype (Born 2019-2021)	25	46	21
Younger Cows in 1 st or 2 nd Lactation with LD Genotype	46	63	17
Foreign Cows with MACE in Canada	33	52	19
First Crop Progeny Proven Sires in Canada	76	81	5
Foreign Sires with MACE in Canada	63	72	9

Sub-Group for the BROWN SWISS Breed	Average LPI Reliability (%)		
	Traditional	Genomics	Gain
≥50K Young Bulls and Heifers with a Proven Sire	30	53	23
Heifers with LD Genotype (Born 2019-2021)	26	51	25
Younger Cows in 1 st or 2 nd Lactation with LD Genotype	45	63	18
Foreign Cows with MACE in Canada	35	55	20
First Crop Progeny Proven Sires in Canada	63	75	12
Foreign Sires with MACE in Canada	61	72	11

Sub-Group for the AYRSHIRE Breed	Average LPI Reliability (%)		
	Traditional	Genomics	Gain
≥50K Young Bulls and Heifers with a Proven Sire	34	46	12
Heifers with LD Genotype (Born 2019-2021)	23	38	15
Younger Cows in 1 st or 2 nd Lactation with LD Genotype	46	55	9
First Crop Progeny Proven Sires in Canada	78	81	3
Foreign Sires with MACE in Canada	66	72	6

Sub-Group for GUERNSEY Breed	Average LPI Reliability (%)		
	Traditional	Genomics	Gain
Young Bulls and Heifers with a Proven Sire	24	27	3
First Crop Progeny Proven Sires in Canada	60	61	1
Foreign Sires with MACE in Canada	56	58	2

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