



**Average Gain in LPI and Pro\$ Reliability
Due to Genomics
- AUGUST 2019 -**

Sub-Group for Holstein Breed	Average LPI and Pro\$ Reliability (%)		
	Traditional	Genomics	Gain
≥50K Young Bulls and Heifers with a Proven Sire	42	76	34
≥50K Young Bulls and Heifers with a GPA LPI Sire (GYS)	38	73	35
Heifers with LD Genotype (Born 2017-2019)	33	72	39
Younger Cows in 1 st or 2 nd Lactation with LD Genotype	49	77	28
LD Foreign Cows with MACE in Canada	40	76	36
1 st Crop Progeny Proven Sires in Canada	83	90	7
Foreign Sires with MACE in Canada	67	85	18

Sub-Group for Jersey Breed	Average LPI and Pro\$ Reliability (%)		
	Traditional	Genomics	Gain
≥50K Young Bulls and Heifers with a Proven Sire	34	54	20
Heifers with LD Genotype (Born 2017-2019)	25	48	23
Younger Cows in 1 st or 2 nd Lactation with LD Genotype	48	65	17
Foreign Cows with MACE in Canada	37	55	18
1 st Crop Proven Sires in Canada	77	82	5
Foreign Sires with MACE in Canada	67	75	8

Sub-Group for Brown Swiss Breed	Average LPI Reliability (%)		
	Traditional	Genomics	Gain
≥50K Young Bulls and Heifers with a Proven Sire	29	52	23
Heifers with LD Genotype (Born 2017-2019)	29	52	23
Younger Cows in 1 st or 2 nd Lactation with LD Genotype	45	63	18
Foreign Cows with MACE in Canada	38	58	20
1 st Crop Proven Sires in Canada	69	78	9
Foreign Sires with MACE in Canada	62	72	10

Sub-Group for Ayrshire Breed	Average LPI and Pro\$ Reliability (%)		
	Traditional	Genomics	Gain
≥50K Young Bulls and Heifers with a Proven Sire	36	46	10
Heifers with LD Genotype (Born 2017-2019)	27	39	12
Younger Cows in 1 st or 2 nd Lactation with LD Genotype	45	54	9
1 st Crop Proven Sires in Canada	72	75	3
Foreign Sires with MACE in Canada	64	70	6

Sub-Group for Guernsey Breed	Average LPI Reliability (%)		
	Traditional	Genomics	Gain
Young Bulls and Heifers with a Proven Sire	25	27	2
1 st Crop Proven Sires in Canada	59	61	2
Foreign Sires with MACE in Canada	57	59	2