

**Average Gain in LPI and Pro\$ Reliability
 Due to Genomics
 - AUGUST 2018 -**

Sub-Group for Holstein Breed	Average LPI and Pro\$ Reliability (%)			
	Traditional	Genomics	Gain	DGV Weight
≥50K Young Bulls and Heifers with a Proven Sire	41	75	34	65%
≥50K Young Bulls and Heifers with a GPA LPI Sire (GYS)	38	71	33	65%
Heifers with LD Genotype (Born 2016-2018)	33	71	38	68%
Younger Cows in 1st or 2nd Lactation with LD Genotype	48	76	28	61%
LD Foreign Cows with MACE in Canada	40	74	34	65%
1st Crop Progeny Proven Sires in Canada	83	89	6	52%
Foreign Sires with MACE in Canada	66	84	18	56%

Sub-Group for Jersey Breed	Average LPI and Pro\$ Reliability (%)			
	Traditional	Genomics	Gain	DGV Weight
≥50K Young Bulls and Heifers with a Proven Sire	33	52	19	61%
Heifers with LD Genotype (Born 2016-2018)	26	45	19	63%
Younger Cows in 1st or 2nd Lactation with LD Genotype	48	63	15	57%
Foreign Cows with MACE in Canada	37	53	16	59%
1st Crop Proven Sires in Canada	74	79	5	52%
Foreign Sires with MACE in Canada	64	72	8	53%

Sub-Group for Brown Swiss Breed	Average LPI Reliability (%)			
	Traditional	Genomics	Gain	DGV Weight
≥50K Young Bulls and Heifers with a Proven Sire	29	52	23	64%
Heifers with LD Genotype (Born 2016-2018)	30	52	22	63%
Younger Cows in 1st or 2nd Lactation with LD Genotype	43	62	19	59%
Foreign Cows with MACE in Canada	37	57	20	61%
1st Crop Proven Sires in Canada	65	76	11	54%
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	35	45	10	56%
Heifers with LD Genotype (Born 2016-2018)	28	39	11	58%
Younger Cows in 1st or 2nd Lactation with LD Genotype	45	53	8	54%
1st Crop Proven Sires in Canada	71	74	3	51%
Foreign Sires with MACE in Canada	63	68	5	52%

Sub-Group for Guernsey Breed	Average LPI Reliability (%)			
	Traditional	Genomics	Gain	DGV Weight
Young Bulls and Heifers with a Proven Sire	24	26	2	52%
1st Crop Proven Sires in Canada	60	61	1	50%
Foreign Sires with MACE in Canada	56	58	2	51%