

**Average Gain in LPI and Pro\$ Reliability
 Due to Genomics
 - APRIL 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	40	74	34	65%
≥50K Young Bulls and Heifers with a GPA LPI Sire (GYS)	37	71	34	66%
Heifers with LD Genotype (Born 2016-2018)	33	70	37	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	82	89	7	52%
Foreign Sires with MACE in Canada	65	84	19	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	32	52	20	62%
Heifers with LD Genotype (Born 2016-2018)	25	45	20	64%
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	73	78	5	52%
Foreign Sires with MACE in Canada	64	71	7	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	51	21	63%
Younger Cows in 1st or 2nd Lactation with LD Genotype	43	61	18	59%
Foreign Cows with MACE in Canada	37	56	19	60%
1st Crop Proven Sires in Canada	64	75	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	34	44	10	56%
Heifers with LD Genotype (Born 2016-2018)	28	39	11	58%
Younger Cows in 1st or 2nd Lactation with LD Genotype	44	53	9	55%
1st Crop Proven Sires in Canada	70	73	3	51%
Foreign Sires with MACE in Canada	62	67	5	52%

Sub-Group for Guernsey Breed	Average LPI Reliability (%)			
	Traditional	Genomics	Gain	DGV Weight
Young Bulls and Heifers with a Proven Sire	24	27	3	53%
1st Crop Proven Sires in Canada	58	60	2	51%
Foreign Sires with MACE in Canada	55	58	3	51%