

Average Gain in LPI Reliability Due to Genomics
- APRIL 2014 -

| Sub-Group for Holstein Breed | Average LPI Reliability (%) | | | |
|---|-----------------------------|----------|------|------------|
| | Traditional | Genomics | Gain | DGV Weight |
| 50K Young Bulls and Heifers with a Proven Sire | 40 | 72 | 32 | 64% |
| 50K Young Bulls and Heifers with a GPA LPI Sire (GYS) | 36 | 67 | 31 | 65% |
| Heifers with LD Genotype (Born 2012-2014) | 34 | 68 | 34 | 67% |
| Younger Cows in 1st or 2nd Lactation with LD Genotype | 50 | 71 | 21 | 59% |
| LD Foreign Cows with MACE in Canada | 41 | 70 | 29 | 63% |
| 1st Crop Progeny Proven Sires in Canada | 85 | 90 | 5 | 51% |
| Foreign Sires with MACE in Canada | 69 | 83 | 14 | 55% |

| Sub-Group for Jersey Breed | Average LPI Reliability (%) | | | |
|---|-----------------------------|----------|------|------------|
| | Traditional | Genomics | Gain | DGV Weight |
| 50K Young Bulls and Heifers with a Proven Sire | 34 | 53 | 19 | 61% |
| Heifers with LD Genotype (Born 2012-2014) | 26 | 46 | 20 | 64% |
| Younger Cows in 1st or 2nd Lactation with LD Genotype | 50 | 56 | 6 | 53% |
| Foreign Cows with MACE in Canada | 38 | 55 | 17 | 59% |
| 1st Crop Proven Sires in Canada | 79 | 83 | 4 | 51% |
| Foreign Sires with MACE in Canada | 70 | 77 | 7 | 52% |

| Sub-Group for Brown Swiss Breed | Average LPI Reliability (%) | | | |
|---|-----------------------------|----------|------|------------|
| | Traditional | Genomics | Gain | DGV Weight |
| 50K Young Bulls and Heifers with a Proven Sire | 32 | 54 | 22 | 63% |
| Heifers with LD Genotype (Born 2012-2014) | 29 | 51 | 22 | 64% |
| Younger Cows in 1st or 2nd Lactation with LD Genotype | 45 | 55 | 10 | 55% |
| Foreign Cows with MACE in Canada | 38 | 56 | 18 | 60% |
| 1st Crop Proven Sires in Canada | 70 | 78 | 8 | 53% |
| Foreign Sires with MACE in Canada | 63 | 72 | 9 | 53% |

| Sub-Group for Ayrshire Breed | Average LPI Reliability (%) | | | |
|---|-----------------------------|----------|------|------------|
| | Traditional | Genomics | Gain | DGV Weight |
| 50K Young Bulls and Heifers with a Proven Sire | 35 | 37 | 2 | 51% |
| Heifers with LD Genotype (Born 2012-2014) | 31 | 34 | 3 | 52% |
| Younger Cows in 1st or 2nd Lactation with LD Genotype | 46 | 47 | 1 | 51% |
| 1st Crop Proven Sires in Canada | 77 | 78 | 1 | 50% |
| Foreign Sires with MACE in Canada | 65 | 68 | 3 | 51% |