**Table S3 Intensity of sire selection by scenario and relative cost of phenotyping to genotyping**

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| --- | --- | --- | --- |
|  | Relative cost of phenotyping (P) to genotyping (G) | | |
| Scenario | $P:$G = 1:2 | $P:$G = 1:1 | $P:$G = 2:1 |
| C11 | 0.80 | 0.80 | 0.80 |
| G10 | 1.32 | 1.71 | 2.02 |
| G9 | 1.76 | 2.06 | 2.48 |
| G8 | 1.99 | 2.27 | 2.52 |
| G5 | 2.40 | 2.63 | 2.85 |
| G2 | 2.63 | 2.86 | 3.11 |
| G1 | 2.70 | 2.93 | 3.14 |

$P:$G = relative cost of phenotyping ($P) to genotyping ($G). The scenarios are named C/G for conventional/genomic with numbers indicating the number of phenotype records per lactation.