

## NZGE Indexes and gBVs - Terminal Sire - Sire Percentile Bands

**NZGE September2023**

**SIL GE# 40828**

Sires with progeny born in **2020-2022**

| Threshold to be in top X%  | NZTW                                      | NZGE Terminal Sire Sub-indexes |                |             | NZGE Terminal Sire - estimated Breeding Values (gBV) |              |              |                  |               |                    |               |               |               |               |                   |
|----------------------------|---|--------------------------------|----------------|-------------|--|--------------|--------------|------------------|---------------|--------------------|---------------|---------------|---------------|---------------|-------------------|
|                            |   | TSS                            | TSG            | TSM         | SUR  | WWT          | CWT          | LW8 <sup>1</sup> | FATY          | LEANY <sup>1</sup> | SHLY          | LNLY          | HQLY          | CWY           | EMAc <sup>1</sup> |
| 5%                         | +2720                                     | +328                           | +1611          | +991        | +0.039   | +6.79        | +3.75        | +11.77           | -1.168        | +0.793             | +0.352        | +0.129        | +0.389        | +2.395        | +1.994            |
| 10%                        | +2465                                     | +275                           | +1453          | +886        | +0.033   | +6.12        | +3.38        | +10.61           | -1.008        | +0.681             | +0.301        | +0.110        | +0.330        | +2.166        | +1.688            |
| 20%                        | <b>+2157</b>                              | <b>+211</b>                    | <b>+1262</b>   | <b>+759</b> | <b>+0.025</b>  | <b>+5.30</b> | <b>+2.93</b> | <b>+9.21</b>     | <b>-0.815</b> | <b>+0.544</b>      | <b>+0.238</b> | <b>+0.087</b> | <b>+0.260</b> | <b>+1.890</b> | <b>+1.317</b>     |
| 30%                        | +1934                                     | +165                           | +1124          | +667        | +0.020   | +4.72        | +2.61        | +8.20            | -0.676        | +0.445             | +0.193        | +0.070        | +0.209        | +1.690        | +1.050            |
| 50%                        | <b>+1566</b>                              | <b>+89</b>                     | <b>+896</b>    | <b>+516</b> | <b>+0.011</b>  | <b>+3.74</b> | <b>+2.07</b> | <b>+6.53</b>     | <b>-0.446</b> | <b>+0.282</b>      | <b>+0.119</b> | <b>+0.042</b> | <b>+0.126</b> | <b>+1.361</b> | <b>+0.609</b>     |
| 70%                        | +1198                                     | +13                            | +668           | +365        | +0.001   | +2.77        | +1.54        | +4.86            | -0.215        | +0.119             | +0.045        | +0.015        | +0.042        | +1.031        | +0.167            |
| 80%                        | +976                                      | -34                            | +530           | +273        | -0.004   | +2.18        | +1.22        | +3.85            | -0.076        | +0.021             | -0.000        | -0.002        | -0.009        | +0.832        | -0.100            |
| 90%                        | +667                                      | -98                            | +339           | +146        | -0.012   | +1.37        | +0.77        | +2.45            | +0.117        | -0.116             | -0.063        | -0.025        | -0.079        | +0.555        | -0.470            |
| 95%                        | +412                                      | -150                           | +181           | +42         | -0.018   | +0.69        | +0.40        | +1.29            | +0.277        | -0.229             | -0.114        | -0.044        | -0.137        | +0.327        | -0.776            |
| Traits in index or units   | Lamb Survival, Lamb Growth th, Meat Yield | Lamb Survival                  | Lamb Growth th | Meat Yield  | x100 =%  | kg           | kg           | kg               | kg fat        | kg lean            | kg lean       | kg lean       | kg lean       | kg lean       | sq. cm            |
| Number of connected flocks | 111                                       | 157                            | 194            | 121         | 157  | 194          | 194          | 194              | 121           | 121                | 121           | 121           | 121           | 121           | 121               |
| Number of sires            | 1941                                      | 2286                           | 2700           | 2118        | 2286   | 2700         | 2700         | 2700             | 2118          | 2118               | 2118          | 2118          | 2118          | 2118          | 2118              |

<sup>1</sup> These BVs not used in standard SIL indexes

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## NZGE Indexes - Dual Purpose - Sire Percentile Bands

NZGE September2023

SIL GE # 40828

Sires with progeny born in **2020-2022**

| Threshold to be in top X%  | NZGE Dual Purpose Indexes                       |   |   |  |  |  | NZGE Dual Purpose Sub-indexes |               |             |            |                          |            |      |  |               |           |                      |
|----------------------------|---|---|---|--|--|--|-------------------------------|---------------|-------------|------------|--------------------------|------------|------|--|---------------|-----------|----------------------|
|                            | NZMW  | MW+W  | MW +M   | MW +F  | MW +X  | MW +D  | DPCR                          | DPS           | DPG         | DPA        | DPG+ DPA                 | DPM        | DPW  | DPF                                    | DPX           | DPD       | DPBC                 |
| 5%                         | +3451   | +3613   | +4062   | +3778  | +5642  | +3460  | +922                          | +1276         | +2663       | +338       | +2011                    | +1104      | +247 | +931                                   | +2824         | +107      | +1271                |
| 10%                        | +3142   | +3315   | +3705   | +3419  | +5118  | +3157  | +797                          | +1108         | +2414       | +153       | +1803                    | +946       | +211 | +745                                   | +2443         | +84       | +1070                |
| 20%                        | +2768   | +2953   | +3273   | +2984  | +4484  | +2790  | +645                          | +904          | +2111       | -70        | +1551                    | +755       | +168 | +521                                   | +1981         | +56       | +827                 |
| 30%                        | +2499   | +2693   | +2961   | +2671  | +4027  | +2526  | +536                          | +757          | +1893       | -232       | +1369                    | +617       | +136 | +359                                   | +1647         | +36       | +652                 |
| 40%                        | +2269   | +2470   | +2695   | +2403  | +3636  | +2300  | +442                          | +632          | +1707       | -369       | +1213                    | +499       | +110 | +220                                   | +1363         | +19       | +503                 |
| 50%                        | +2053   | +2262   | +2446   | +2153  | +3271  | +2089  | +355                          | +514          | +1533       | -498       | +1068                    | +389       | +85  | +91                                    | +1096         | +3        | +363                 |
| 60%                        | +1838   | +2054   | +2197   | +1903  | +2906  | +1878  | +267                          | +397          | +1359       | -627       | +923                     | +278       | +59  | -39                                    | +830          | -13       | +223                 |
| 70%                        | +1608   | +1832   | +1930   | +1635  | +2515  | +1652  | +174                          | +271          | +1173       | -765       | +767                     | +161       | +33  | -177                                   | +546          | -30       | +73                  |
| 80%                        | +1338   | +1571   | +1619   | +1322  | +2058  | +1388  | +64                           | +124          | +955        | -926       | +586                     | +23        | +1   | -339                                   | +212          | -50       | -102                 |
| 90%                        | +965  | +1210   | +1186   | +887   | +1424  | +1021  | -87                           | -79           | +653        | -1150      | +333                     | -169       | -42  | -564                                   | -250          | -78       | -345                 |
| 95%                        | +656  | +912  | +829  | +528   | +900   | +719   | -213                          | -248          | +403        | -1334      | +125                     | -327       | -78  | -750                                   | -632          | -101      | -545                 |
| Traits in Index            | Reproduction, Survival, Lamb Growth, Adult size | Reproduction, Survival, Lamb Growth, Adult size, Wool | Reproduction, Survival, Lamb Growth, Adult size, Meat Yield | Reproduction, Survival, Lamb Growth, Adult size, WormFEC | Reproduction, Survival, Lamb Growth, Adult size, Wool, Facial Eczema | Reproduction, Survival, Lamb Growth, Adult size, Dag score | Reproduction *Capped*         | Lamb Survival | Lamb Growth | Adult size | Lamb Growth + Adult size | Meat Yield | Wool | Internal parasite resistance - WormFEC | Facial Eczema | Dag score | Body condition score |
| Number of connected flocks | 147   | 107   | 101   | 61   | 27   | 67   | 224                           | 240           | 264         | 170        | 160                      | 143        | 124  | 66                                     | 28            | 77        | 74                   |
| Number of sires            | 4124  | 3170  | 3237  | 1929   | 1089   | 2548   | 4925                          | 5080          | 5231        | 4344       | 4270                     | 3707       | 3321 | 1964                                   | 1117          | 2705      | 2414                 |

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## NZGE Indexes - Dual Purpose+ Wool - Sire Percentile Bands

**NZGE September2023**

SIL GE # 40828

Sires with progeny born in

**2020-2022**

| Threshold to be in top X%  | NZGE Dual Purpose MW+Wool Indexes                     |   |  |  |  |   |  |  |  |   |
|----------------------------|---|---|--|--|--|---|--|--|--|---|
|                            | MW+W  | MW+W+M  | MW+W+F   | MW+W+X   | MW+W+BC  | MW+W+D  | MW+W+M+F   | MW+W+M+X   | MW+W+M+D   | MW+W+M+F+X  |
| 5%                         | +3613   | +4175   | +3933  | +5802  | +4139  | +3588   | +4334  | +5952  | +4087  | +6180   |
| 10%                        | +3315   | +3828   | +3579  | +5274  | +3795  | +3298   | +3947  | +5437  | +3749  | +5621   |
| 20%                        | +2953   | +3408   | +3150  | +4635  | +3380  | +2946   | +3479  | +4812  | +3339  | +4943   |
| 30%                        | +2693   | +3105   | +2841  | +4174  | +3080  | +2692   | +3141  | +4362  | +3044  | +4454   |
| 40%                        | +2470   | +2846   | +2577  | +3780  | +2824  | +2475   | +2853  | +3977  | +2792  | +4036   |
| 50%                        | +2262   | +2605   | +2330  | +3411  | +2584  | +2273   | +2583  | +3617  | +2556  | +3646   |
| 60%                        | +2054   | +2363   | +2083  | +3043  | +2345  | +2070   | +2313  | +3258  | +2321  | +3255   |
| 70%                        | +1832   | +2104   | +1819  | +2649  | +2089  | +1854   | +2025  | +2873  | +2068  | +2838   |
| 80%                        | +1571   | +1801   | +1510  | +2188  | +1789  | +1600   | +1687  | +2423  | +1773  | +2349   |
| 90%                        | +1210   | +1381   | +1081  | +1548  | +1373  | +1248   | +1219  | +1798  | +1364  | +1671   |
| 95%                        | +912  | +1034   | +727   | +1020  | +1030  | +958  | +832   | +1283  | +1026  | +1111   |
| Traits in Index            | Reproduction, Survival, Lamb Growth, Adult size, Wool | Reproduction, Survival, Lamb Growth, Adult size, Wool, Meat Yield | Reproduction, Survival, Lamb Growth, Adult size, Wool, WormFEC | Reproduction, Survival, Lamb Growth, Adult size, Wool, Facial Eczema | Reproduction, Survival, Lamb Growth, Adult size, Wool, Dag score | Reproduction, Survival, Lamb Growth, Adult size, Wool, Body Condition | Reproduction, Survival, Lamb Growth, Adult size, Wool, Meat, WormFEC | Reproduction, Survival, Lamb Growth, Adult size, Wool, Meat, Facial Eczema | Reproduction, Survival, Lamb Growth, Adult size, Wool, Meat, Dag | Reproduction, Survival, Lamb Growth, Adult size, Wool, Meat, WormFEC, Facial eczema |
| Number of connected flocks | 107   | 82  | 50   | 25   | 51   | 56  | 40   | 24   | 47   | 24  |
| Number of sires            | 3170  | 2701  | 1620   | 1052   | 1976   | 2198  | 1437   | 1036   | 2027   | 1036  |

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## NZGE gBVs - Dual Purpose - Sire Percentile Bands

**NZGE September2023**

SIL GE# 40828

Sires with progeny born in

**2020-2022**

| Threshold to be in top X%  | NZGE Dual Purpose - estimated Breeding Values (gBV) |               |               |              |              |                  |              |              |               |                    |               |               |               |               |                   |               |
|----------------------------|---|---------------|---------------|--------------|--------------|------------------|--------------|--------------|---------------|--------------------|---------------|---------------|---------------|---------------|-------------------|---------------|
|                            | NLB   | SUR           | SURm          | WWT          | CWT          | LW8 <sup>1</sup> | WWTm         | EWT          | FATY          | LEANY <sup>1</sup> | SHLY          | LNLY          | HQLY          | CWY           | EMAc <sup>1</sup> | FW12          |
| 5%                         | +0.38   | +0.056        | +0.039        | +5.80        | +3.10        | +9.78            | +3.19        | -2.14        | -0.833        | +0.584             | +0.274        | +0.124        | +0.315        | +1.754        | +1.670            | +0.687        |
| 10%                        | +0.33   | +0.048        | +0.032        | +5.21        | +2.80        | +8.83            | +2.82        | -0.97        | -0.674        | +0.478             | +0.225        | +0.103        | +0.260        | +1.507        | +1.344            | +0.586        |
| 20%                        | <b>+0.26</b>  | <b>+0.040</b> | <b>+0.024</b> | <b>+4.49</b> | <b>+2.44</b> | <b>+7.68</b>     | <b>+2.37</b> | <b>+0.45</b> | <b>-0.481</b> | <b>+0.350</b>      | <b>+0.167</b> | <b>+0.078</b> | <b>+0.193</b> | <b>+1.208</b> | <b>+0.950</b>     | <b>+0.465</b> |
| 30%                        | +0.22   | +0.034        | +0.019        | +3.97        | +2.18        | +6.86            | +2.04        | +1.47        | -0.341        | +0.258             | +0.124        | +0.060        | +0.145        | +0.992        | +0.666            | +0.377        |
| 50%                        | <b>+0.14</b>  | <b>+0.023</b> | <b>+0.009</b> | <b>+3.11</b> | <b>+1.75</b> | <b>+5.49</b>     | <b>+1.50</b> | <b>+3.15</b> | <b>-0.111</b> | <b>+0.105</b>      | <b>+0.054</b> | <b>+0.030</b> | <b>+0.066</b> | <b>+0.636</b> | <b>+0.195</b>     | <b>+0.231</b> |
| 70%                        | +0.06   | +0.013        | +0.000        | +2.25        | +1.32        | +4.12            | +0.97        | +4.84        | +0.119        | -0.048             | -0.016        | +0.000        | -0.014        | +0.279        | -0.275            | +0.086        |
| 80%                        | +0.02   | +0.007        | -0.006        | +1.74        | +1.06        | +3.30            | +0.64        | +5.86        | +0.259        | -0.140             | -0.058        | -0.018        | -0.062        | +0.063        | -0.559            | -0.002        |
| 90%                        | -0.05   | -0.002        | -0.013        | +1.02        | +0.70        | +2.15            | +0.19        | +7.28        | +0.452        | -0.268             | -0.117        | -0.043        | -0.128        | -0.236        | -0.954            | -0.123        |
| 95%                        | -0.10   | -0.009        | -0.020        | +0.42        | +0.40        | +1.20            | -0.18        | +8.45        | +0.611        | -0.374             | -0.166        | -0.064        | -0.183        | -0.483        | -1.279            | -0.224        |
| Units                      | x100 =%   | x100 =%       | x100 =%       | kg           | kg           | kg               | kg           | kg           | kg fat        | kg lean            | kg lean       | kg lean       | kg lean       | kg lean       | sq. cm            | kg            |
| Number of connected flocks | 224   | 240           | 240           | 264          | 264          | 264              | 264          | 170          | 143           | 143                | 143           | 143           | 143           | 143           | 143               | 124           |
| Number of sires            | 4925  | 5080          | 5080          | 5231         | 5231         | 5231             | 5231         | 4344         | 3707          | 3707               | 3707          | 3707          | 3707          | 3707          | 3707              | 3321          |

<sup>1</sup>These BVs not used in standard SIL indexes

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## NZGE gBVs- Health Traits - Sire Percentile Bands

**NZGE September2023**

SIL GE# 40828

Sires with progeny born in

**2020-2022**

| Threshold to be in top X%  | NZGE - estimated Breeding Values (gBV) for Health Traits - DP & TS flocks combined |              |              |               |              |              |              |              |              |
|----------------------------|--|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|
|                            | FEC1   | FEC2         | AFEC         | DRAGE         | RGAIN        | LDAG         | ADAG         | GGT21        | BCS          |
| 5%                         | -47.9  | -50.0        | -66.0        | +35.58        | +1.94        | -0.80        | -0.97        | -1.27        | +0.39        |
| 10%                        | -38.0  | -39.1        | -54.3        | +29.57        | +1.60        | -0.63        | -0.77        | -1.10        | +0.33        |
| 20%                        | <b>-25.9</b>   | <b>-25.9</b> | <b>-40.0</b> | <b>+22.29</b> | <b>+1.18</b> | <b>-0.43</b> | <b>-0.52</b> | <b>-0.89</b> | <b>+0.25</b> |
| 30%                        | -17.3  | -16.3        | -29.7        | +17.05        | +0.88        | -0.28        | -0.34        | -0.74        | +0.20        |
| 50%                        | <b>-2.9</b>  | <b>-0.6</b>  | <b>-12.7</b> | <b>+8.37</b>  | <b>+0.39</b> | <b>-0.04</b> | <b>-0.05</b> | <b>-0.49</b> | <b>+0.11</b> |
| 70%                        | +11.5  | +15.1        | +4.2         | -0.30         | -0.11        | +0.21        | +0.25        | -0.24        | +0.02        |
| 80%                        | +20.2  | +24.6        | +14.5        | -5.55         | -0.41        | +0.35        | +0.42        | -0.10        | -0.03        |
| 90%                        | +32.2  | +37.8        | +28.8        | -12.83        | -0.82        | +0.56        | +0.67        | +0.11        | -0.10        |
| 95%                        | +42.2  | +48.7        | +40.6        | -18.84        | -1.16        | +0.73        | +0.88        | +0.28        | -0.17        |
| Units                      | %  | %            | %            | days          | kg           | score        | score        |              | score        |
| Number of connected flocks | 67   | 67           | 67           | 5             | 5            | 87           | 87           | 28           | 75           |
| Number of sires            | 1978   | 1978         | 1978         | 220           | 220          | 3051         | 3051         | 1117         | 2430         |

Due to few TS flocks having data on health traits, these figures are for DP and TS flocks combined.

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