### Supplementary information for Spurgin *et al.* "Telomeres reveal silver spoon effects in a wild population"

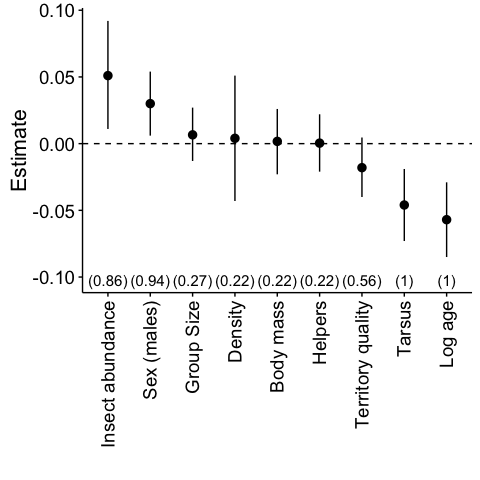
**Table S1** Model selection table for analysis of factors affecting early life telomere length in juvenile Seychelles warblers. Only models that remained in the top model set for model averaging (AICc 6 compared to the top model) are included here.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model | df | AICc | Delta AICc | Weight |
| Sex (males) + Insect abundance + Log age + Tarsus + Territory quality | 12 | -872.78 | 0.00 | 0.12 |
| Sex (males) + Insect abundance + Log age + Tarsus | 11 | -872.45 | 0.34 | 0.10 |
| Sex (males) + Group Size + Insect abundance + Log age + Tarsus + Territory quality | 13 | -871.24 | 1.55 | 0.06 |
| Helpers + Sex (males) + Insect abundance + Log age + Tarsus + Territory quality | 13 | -870.77 | 2.01 | 0.05 |
| Sex (males) + Body mass + Insect abundance + Log age + Tarsus + Territory quality | 13 | -870.77 | 2.02 | 0.05 |
| Sex (males) + Density + Insect abundance + Log age + Tarsus + Territory quality | 13 | -870.76 | 2.02 | 0.05 |
| Sex (males) + Group Size + Insect abundance + Log age + Tarsus | 12 | -870.71 | 2.08 | 0.04 |
| Sex (males) + Density + Insect abundance + Log age + Tarsus | 12 | -870.48 | 2.31 | 0.04 |
| Helpers + Sex (males) + Insect abundance + Log age + Tarsus | 12 | -870.43 | 2.35 | 0.04 |
| Sex (males) + Body mass + Insect abundance + Log age + Tarsus | 12 | -870.41 | 2.37 | 0.04 |
| Sex (males) + Log age + Tarsus | 10 | -869.96 | 2.83 | 0.03 |
| Sex (males) + Log age + Tarsus + Territory quality | 11 | -869.45 | 3.33 | 0.02 |
| Helpers + Sex (males) + Group Size + Insect abundance + Log age + Tarsus + Territory quality | 14 | -869.28 | 3.51 | 0.02 |
| Sex (males) + Body mass + Group Size + Insect abundance + Log age + Tarsus + Territory quality | 14 | -869.27 | 3.51 | 0.02 |
| Sex (males) + Density + Group Size + Insect abundance + Log age + Tarsus + Territory quality | 14 | -869.20 | 3.58 | 0.02 |
| Insect abundance + Log age + Tarsus + Territory quality | 11 | -868.86 | 3.93 | 0.02 |
| Helpers + Sex (males) + Body mass + Insect abundance + Log age + Tarsus + Territory quality | 14 | -868.76 | 4.03 | 0.02 |
| Helpers + Sex (males) + Density + Insect abundance + Log age + Tarsus + Territory quality | 14 | -868.75 | 4.03 | 0.02 |
| Sex (males) + Body mass + Density + Insect abundance + Log age + Tarsus + Territory quality | 14 | -868.74 | 4.04 | 0.02 |
| Sex (males) + Density + Group Size + Insect abundance + Log age + Tarsus | 13 | -868.72 | 4.06 | 0.02 |
| Helpers + Sex (males) + Group Size + Insect abundance + Log age + Tarsus | 13 | -868.72 | 4.07 | 0.02 |
| Sex (males) + Body mass + Group Size + Insect abundance + Log age + Tarsus | 13 | -868.69 | 4.10 | 0.02 |
| Helpers + Sex (males) + Density + Insect abundance + Log age + Tarsus | 13 | -868.46 | 4.32 | 0.01 |
| Sex (males) + Body mass + Density + Insect abundance + Log age + Tarsus | 13 | -868.44 | 4.34 | 0.01 |
| Helpers + Sex (males) + Body mass + Insect abundance + Log age + Tarsus | 13 | -868.39 | 4.39 | 0.01 |
| Sex (males) + Group Size + Log age + Tarsus | 11 | -868.22 | 4.57 | 0.01 |
| Insect abundance + Log age + Tarsus | 10 | -868.10 | 4.68 | 0.01 |
| Helpers + Sex (males) + Log age + Tarsus | 11 | -867.94 | 4.84 | 0.01 |
| Sex (males) + Density + Log age + Tarsus | 11 | -867.93 | 4.85 | 0.01 |
| Sex (males) + Body mass + Log age + Tarsus | 11 | -867.93 | 4.85 | 0.01 |
| Sex (males) + Group Size + Log age + Tarsus + Territory quality | 12 | -867.86 | 4.93 | 0.01 |
| Sex (males) + Density + Log age + Tarsus + Territory quality | 12 | -867.46 | 5.33 | 0.01 |
| Helpers + Sex (males) + Log age + Tarsus + Territory quality | 12 | -867.44 | 5.34 | 0.01 |
| Sex (males) + Body mass + Log age + Tarsus + Territory quality | 12 | -867.42 | 5.36 | 0.01 |
| Body mass + Insect abundance + Log age + Tarsus + Territory quality | 12 | -867.40 | 5.38 | 0.01 |
| Helpers + Sex (males) + Body mass + Group Size + Insect abundance + Log age + Tarsus + Territory quality | 15 | -867.32 | 5.47 | 0.01 |
| Sex (males) + Body mass + Density + Group Size + Insect abundance + Log age + Tarsus + Territory quality | 15 | -867.24 | 5.55 | 0.01 |
| Helpers + Sex (males) + Density + Group Size + Insect abundance + Log age + Tarsus + Territory quality | 15 | -867.24 | 5.55 | 0.01 |
| Group Size + Insect abundance + Log age + Tarsus + Territory quality | 12 | -867.21 | 5.57 | 0.01 |
| Helpers + Insect abundance + Log age + Tarsus + Territory quality | 12 | -866.85 | 5.93 | 0.01 |
| Density + Insect abundance + Log age + Tarsus + Territory quality | 12 | -866.84 | 5.94 | 0.01 |

**Table S2** Model selection table for analysis of factors affecting RTL in Seychelles warbler nestlings, using longitudinal data. Only models that remained in the top model set for model averaging (AICc 6 compared to the top model) are included here. TQ = territory quality.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Model | df | AICc | Delta AICc | Weight |
| Log age | 5 | 12.04 | 0.00 | 0.03 |
| Log age + Tarsus | 6 | 12.68 | 0.63 | 0.02 |
| Tarsus | 5 | 12.80 | 0.75 | 0.02 |
| Null model | 4 | 12.97 | 0.93 | 0.02 |
| Density + Log age | 6 | 13.32 | 1.27 | 0.02 |
| Body mass + Log age | 6 | 13.43 | 1.39 | 0.02 |
| Body mass | 5 | 13.75 | 1.71 | 0.01 |
| Helpers + Log age | 6 | 13.79 | 1.74 | 0.01 |
| Density + Log age + Tarsus | 7 | 13.94 | 1.89 | 0.01 |
| Log age + Territory quality | 6 | 13.97 | 1.92 | 0.01 |
| Sex (males) + Log age | 6 | 14.02 | 1.98 | 0.01 |
| Insect abundance + Log age | 6 | 14.04 | 1.99 | 0.01 |
| Group Size + Log age | 6 | 14.06 | 2.01 | 0.01 |
| Sex (males) + Tarsus | 6 | 14.06 | 2.02 | 0.01 |
| Density + Tarsus | 6 | 14.11 | 2.06 | 0.01 |
| Sex (males) + Log age + Tarsus | 7 | 14.25 | 2.20 | 0.01 |
| Density | 5 | 14.31 | 2.26 | 0.01 |
| Helpers + Log age + Tarsus | 7 | 14.51 | 2.47 | 0.01 |
| Insect abundance + Log age + Tarsus | 7 | 14.59 | 2.54 | 0.01 |
| Helpers + Tarsus | 6 | 14.64 | 2.60 | 0.01 |
| Insect abundance + Tarsus | 6 | 14.65 | 2.61 | 0.01 |
| Log age + Tarsus + Territory quality | 7 | 14.65 | 2.61 | 0.01 |
| Body mass + Log age + Tarsus | 7 | 14.69 | 2.65 | 0.01 |
| Group Size + Log age + Tarsus | 7 | 14.71 | 2.66 | 0.01 |
| Body mass + Density + Log age | 7 | 14.71 | 2.67 | 0.01 |
| Helpers | 5 | 14.71 | 2.67 | 0.01 |
| Body mass + Tarsus | 6 | 14.71 | 2.67 | 0.01 |
| Group Size + Tarsus | 6 | 14.74 | 2.70 | 0.01 |
| Tarsus + Territory quality | 6 | 14.81 | 2.76 | 0.01 |
| Group Size | 5 | 14.88 | 2.83 | 0.01 |
| Sex (males) | 5 | 14.92 | 2.87 | 0.01 |
| Territory quality | 5 | 14.94 | 2.90 | 0.01 |
| Insect abundance | 5 | 14.94 | 2.90 | 0.01 |
| Helpers + Density + Log age | 7 | 15.08 | 3.04 | 0.01 |
| Body mass + Density | 6 | 15.09 | 3.04 | 0.01 |
| Helpers + Body mass + Log age | 7 | 15.14 | 3.09 | 0.01 |
| Density + Insect abundance + Log age | 7 | 15.16 | 3.12 | 0.01 |
| Sex (males) + Density + Log age | 7 | 15.31 | 3.27 | 0.01 |
| Sex (males) + Density + Tarsus | 7 | 15.34 | 3.30 | 0.01 |
| Density + Group Size + Log age | 7 | 15.36 | 3.31 | 0.01 |
| Density + Log age + Territory quality | 7 | 15.37 | 3.33 | 0.01 |
| Body mass + Log age + Territory quality | 7 | 15.37 | 3.33 | 0.01 |
| Body mass + Insect abundance + Log age | 7 | 15.42 | 3.38 | 0.01 |
| Sex (males) + Body mass + Log age | 7 | 15.44 | 3.40 | 0.01 |
| Helpers + Body mass | 6 | 15.44 | 3.40 | 0.01 |
| Helpers + Group Size + Log age | 7 | 15.45 | 3.40 | 0.01 |
| Sex (males) + Density + Log age + Tarsus | 8 | 15.48 | 3.44 | 0.01 |
| Body mass + Group Size + Log age | 7 | 15.49 | 3.44 | 0.01 |
| Density + Insect abundance + Log age + Tarsus | 8 | 15.60 | 3.56 | 0.01 |
| Sex (males) + Body mass | 6 | 15.67 | 3.63 | 0.01 |
| Density + Insect abundance + Tarsus | 7 | 15.70 | 3.65 | 0.01 |
| Sex (males) + Body mass + Tarsus | 7 | 15.70 | 3.66 | 0.01 |
| Body mass + Insect abundance | 6 | 15.72 | 3.68 | 0.01 |
| Body mass + Territory quality | 6 | 15.74 | 3.69 | 0.01 |
| Helpers + Log age + Territory quality | 7 | 15.74 | 3.69 | 0.01 |
| Helpers + Insect abundance + Log age | 7 | 15.78 | 3.73 | 0.01 |
| Body mass + Group Size | 6 | 15.78 | 3.74 | 0.01 |
| Helpers + Sex (males) + Log age | 7 | 15.79 | 3.74 | 0.01 |
| Helpers + Density + Log age + Tarsus | 8 | 15.79 | 3.75 | 0.01 |
| Sex (males) + Insect abundance + Tarsus | 7 | 15.87 | 3.83 | 0.00 |
| Insect abundance + Log age + Territory quality | 7 | 15.91 | 3.87 | 0.00 |
| Helpers + Sex (males) + Tarsus | 7 | 15.92 | 3.87 | 0.00 |
| Body mass + Density + Log age + Tarsus | 8 | 15.96 | 3.91 | 0.00 |
| Sex (males) + Log age + Territory quality | 7 | 15.96 | 3.92 | 0.00 |
| Sex (males) + Group Size + Tarsus | 7 | 15.97 | 3.93 | 0.00 |
| Helpers + Density + Tarsus | 7 | 15.97 | 3.93 | 0.00 |
| Density + Group Size + Log age + Tarsus | 8 | 15.99 | 3.94 | 0.00 |
| Group Size + Log age + Territory quality | 7 | 15.99 | 3.94 | 0.00 |
| Density + Log age + Tarsus + Territory quality | 8 | 16.00 | 3.96 | 0.00 |
| Sex (males) + Insect abundance + Log age | 7 | 16.02 | 3.98 | 0.00 |
| Body mass + Density + Tarsus | 7 | 16.03 | 3.98 | 0.00 |
| Helpers + Group Size | 6 | 16.04 | 3.99 | 0.00 |
| Sex (males) + Group Size + Log age | 7 | 16.05 | 4.01 | 0.00 |
| Group Size + Insect abundance + Log age | 7 | 16.06 | 4.01 | 0.00 |
| Helpers + Density | 6 | 16.07 | 4.03 | 0.00 |
| Sex (males) + Tarsus + Territory quality | 7 | 16.08 | 4.04 | 0.00 |
| Density + Group Size + Tarsus | 7 | 16.08 | 4.04 | 0.00 |
| Helpers + Sex (males) + Log age + Tarsus | 8 | 16.09 | 4.04 | 0.00 |
| Sex (males) + Body mass + Log age + Tarsus | 8 | 16.11 | 4.07 | 0.00 |
| Sex (males) + Insect abundance + Log age + Tarsus | 8 | 16.13 | 4.08 | 0.00 |
| Density + Insect abundance | 6 | 16.13 | 4.08 | 0.00 |
| Density + Tarsus + Territory quality | 7 | 16.15 | 4.11 | 0.00 |
| Helpers + Group Size + Tarsus | 7 | 16.17 | 4.13 | 0.00 |
| Sex (males) + Log age + Tarsus + Territory quality | 8 | 16.23 | 4.19 | 0.00 |
| Density + Group Size | 6 | 16.25 | 4.20 | 0.00 |
| Sex (males) + Group Size + Log age + Tarsus | 8 | 16.26 | 4.21 | 0.00 |
| Helpers + Group Size + Log age + Tarsus | 8 | 16.27 | 4.22 | 0.00 |
| Sex (males) + Density | 6 | 16.27 | 4.22 | 0.00 |
| Density + Territory quality | 6 | 16.35 | 4.31 | 0.00 |
| Helpers + Insect abundance + Log age + Tarsus | 8 | 16.41 | 4.37 | 0.00 |
| Helpers + Body mass + Density + Log age | 8 | 16.44 | 4.40 | 0.00 |
| Helpers + Insect abundance + Tarsus | 7 | 16.49 | 4.44 | 0.00 |
| Insect abundance + Log age + Tarsus + Territory quality | 8 | 16.50 | 4.45 | 0.00 |
| Helpers + Log age + Tarsus + Territory quality | 8 | 16.51 | 4.46 | 0.00 |
| Helpers + Body mass + Log age + Tarsus | 8 | 16.51 | 4.46 | 0.00 |
| Helpers + Body mass + Tarsus | 7 | 16.53 | 4.49 | 0.00 |
| Body mass + Density + Insect abundance + Log age | 8 | 16.55 | 4.50 | 0.00 |
| Body mass + Insect abundance + Tarsus | 7 | 16.59 | 4.55 | 0.00 |
| Group Size + Insect abundance + Tarsus | 7 | 16.60 | 4.55 | 0.00 |
| Insect abundance + Tarsus + Territory quality | 7 | 16.61 | 4.56 | 0.00 |
| Body mass + Insect abundance + Log age + Tarsus | 8 | 16.61 | 4.57 | 0.00 |
| Group Size + Insect abundance + Log age + Tarsus | 8 | 16.62 | 4.58 | 0.00 |
| Body mass + Log age + Tarsus + Territory quality | 8 | 16.67 | 4.62 | 0.00 |
| Helpers + Tarsus + Territory quality | 7 | 16.67 | 4.63 | 0.00 |
| Helpers + Insect abundance | 6 | 16.68 | 4.63 | 0.00 |
| Helpers + Sex (males) | 6 | 16.68 | 4.64 | 0.00 |
| Group Size + Log age + Tarsus + Territory quality | 8 | 16.68 | 4.64 | 0.00 |
| Helpers + Territory quality | 6 | 16.70 | 4.66 | 0.00 |
| Body mass + Group Size + Tarsus | 7 | 16.71 | 4.67 | 0.00 |
| Sex (males) + Body mass + Density + Log age | 8 | 16.72 | 4.68 | 0.00 |
| Body mass + Tarsus + Territory quality | 7 | 16.73 | 4.68 | 0.00 |
| Body mass + Group Size + Log age + Tarsus | 8 | 16.74 | 4.69 | 0.00 |
| Group Size + Tarsus + Territory quality | 7 | 16.75 | 4.71 | 0.00 |
| Body mass + Density + Log age + Territory quality | 8 | 16.77 | 4.73 | 0.00 |
| Body mass + Density + Group Size + Log age | 8 | 16.77 | 4.73 | 0.00 |
| Helpers + Body mass + Density | 7 | 16.80 | 4.75 | 0.00 |
| Helpers + Density + Group Size + Log age | 8 | 16.84 | 4.79 | 0.00 |
| Sex (males) + Density + Insect abundance + Tarsus | 8 | 16.84 | 4.80 | 0.00 |
| Sex (males) + Group Size | 6 | 16.85 | 4.80 | 0.00 |
| Group Size + Territory quality | 6 | 16.85 | 4.80 | 0.00 |
| Group Size + Insect abundance | 6 | 16.85 | 4.81 | 0.00 |
| Insect abundance + Territory quality | 6 | 16.87 | 4.83 | 0.00 |
| Body mass + Density + Insect abundance | 7 | 16.89 | 4.84 | 0.00 |
| Sex (males) + Insect abundance | 6 | 16.89 | 4.85 | 0.00 |
| Sex (males) + Territory quality | 6 | 16.90 | 4.86 | 0.00 |
| Helpers + Density + Insect abundance + Log age | 8 | 16.91 | 4.87 | 0.00 |
| Sex (males) + Body mass + Density + Tarsus | 8 | 16.98 | 4.93 | 0.00 |
| Helpers + Body mass + Group Size + Log age | 8 | 16.99 | 4.94 | 0.00 |
| Sex (males) + Body mass + Density | 7 | 17.00 | 4.96 | 0.00 |
| Sex (males) + Density + Insect abundance + Log age + Tarsus | 9 | 17.07 | 5.03 | 0.00 |
| Helpers + Sex (males) + Density + Log age | 8 | 17.10 | 5.05 | 0.00 |
| Helpers + Body mass + Log age + Territory quality | 8 | 17.11 | 5.07 | 0.00 |
| Helpers + Body mass + Insect abundance + Log age | 8 | 17.12 | 5.08 | 0.00 |
| Helpers + Sex (males) + Body mass + Log age | 8 | 17.13 | 5.09 | 0.00 |
| Body mass + Density + Group Size | 7 | 17.13 | 5.09 | 0.00 |
| Helpers + Body mass + Group Size | 7 | 17.13 | 5.09 | 0.00 |
| Body mass + Density + Territory quality | 7 | 17.14 | 5.10 | 0.00 |
| Helpers + Density + Log age + Territory quality | 8 | 17.15 | 5.10 | 0.00 |
| Sex (males) + Density + Insect abundance + Log age | 8 | 17.16 | 5.11 | 0.00 |
| Density + Insect abundance + Log age + Territory quality | 8 | 17.20 | 5.16 | 0.00 |
| Density + Group Size + Insect abundance + Log age | 8 | 17.21 | 5.16 | 0.00 |
| Helpers + Sex (males) + Density + Tarsus | 8 | 17.22 | 5.18 | 0.00 |
| Sex (males) + Density + Group Size + Tarsus | 8 | 17.29 | 5.24 | 0.00 |
| Body mass + Insect abundance + Log age + Territory quality | 8 | 17.32 | 5.27 | 0.00 |
| Helpers + Sex (males) + Group Size + Tarsus | 8 | 17.33 | 5.28 | 0.00 |
| Helpers + Sex (males) + Body mass | 7 | 17.33 | 5.29 | 0.00 |
| Sex (males) + Body mass + Density + Log age + Tarsus | 9 | 17.35 | 5.30 | 0.00 |
| Helpers + Sex (males) + Density + Log age + Tarsus | 9 | 17.35 | 5.30 | 0.00 |
| Sex (males) + Density + Group Size + Log age | 8 | 17.36 | 5.32 | 0.00 |
| Sex (males) + Density + Log age + Territory quality | 8 | 17.37 | 5.33 | 0.00 |
| Sex (males) + Body mass + Log age + Territory quality | 8 | 17.39 | 5.34 | 0.00 |
| Sex (males) + Density + Tarsus + Territory quality | 8 | 17.39 | 5.35 | 0.00 |
| Helpers + Body mass + Insect abundance | 7 | 17.40 | 5.35 | 0.00 |
| Density + Group Size + Log age + Territory quality | 8 | 17.41 | 5.37 | 0.00 |
| Helpers + Group Size + Log age + Territory quality | 8 | 17.42 | 5.37 | 0.00 |
| Helpers + Group Size + Insect abundance + Log age | 8 | 17.42 | 5.38 | 0.00 |
| Body mass + Group Size + Log age + Territory quality | 8 | 17.44 | 5.39 | 0.00 |
| Sex (males) + Body mass + Insect abundance + Log age | 8 | 17.44 | 5.40 | 0.00 |
| Helpers + Density + Insect abundance + Log age + Tarsus | 9 | 17.45 | 5.40 | 0.00 |
| Helpers + Body mass + Territory quality | 7 | 17.45 | 5.40 | 0.00 |
| Helpers + Sex (males) + Group Size + Log age | 8 | 17.49 | 5.44 | 0.00 |
| Body mass + Group Size + Insect abundance + Log age | 8 | 17.49 | 5.44 | 0.00 |
| Helpers + Sex (males) + Body mass + Tarsus | 8 | 17.50 | 5.45 | 0.00 |
| Helpers + Density + Group Size | 7 | 17.50 | 5.45 | 0.00 |
| Sex (males) + Body mass + Group Size + Log age | 8 | 17.51 | 5.46 | 0.00 |
| Sex (males) + Density + Group Size + Log age + Tarsus | 9 | 17.52 | 5.47 | 0.00 |
| Sex (males) + Body mass + Insect abundance + Tarsus | 8 | 17.55 | 5.50 | 0.00 |
| Helpers + Density + Insect abundance + Tarsus | 8 | 17.55 | 5.51 | 0.00 |
| Sex (males) + Density + Log age + Tarsus + Territory quality | 9 | 17.55 | 5.51 | 0.00 |
| Helpers + Density + Group Size + Tarsus | 8 | 17.59 | 5.55 | 0.00 |
| Helpers + Density + Group Size + Log age + Tarsus | 9 | 17.63 | 5.59 | 0.00 |
| Body mass + Density + Insect abundance + Log age + Tarsus | 9 | 17.64 | 5.60 | 0.00 |
| Sex (males) + Body mass + Insect abundance | 7 | 17.65 | 5.61 | 0.00 |
| Body mass + Density + Insect abundance + Tarsus | 8 | 17.65 | 5.61 | 0.00 |
| Density + Group Size + Insect abundance + Log age + Tarsus | 9 | 17.66 | 5.61 | 0.00 |
| Sex (males) + Body mass + Territory quality | 7 | 17.66 | 5.62 | 0.00 |
| Body mass + Insect abundance + Territory quality | 7 | 17.66 | 5.62 | 0.00 |
| Density + Insect abundance + Log age + Tarsus + Territory quality | 9 | 17.67 | 5.62 | 0.00 |
| Density + Group Size + Insect abundance + Tarsus | 8 | 17.67 | 5.63 | 0.00 |
| Helpers + Insect abundance + Log age + Territory quality | 8 | 17.68 | 5.64 | 0.00 |
| Sex (males) + Body mass + Group Size + Tarsus | 8 | 17.71 | 5.66 | 0.00 |
| Helpers + Sex (males) + Insect abundance + Tarsus | 8 | 17.72 | 5.67 | 0.00 |
| Sex (males) + Body mass + Group Size | 7 | 17.72 | 5.67 | 0.00 |
| Sex (males) + Body mass + Tarsus + Territory quality | 8 | 17.72 | 5.68 | 0.00 |
| Helpers + Sex (males) + Log age + Territory quality | 8 | 17.75 | 5.71 | 0.00 |
| Body mass + Group Size + Insect abundance | 7 | 17.76 | 5.71 | 0.00 |
| Helpers + Sex (males) + Group Size + Log age + Tarsus | 9 | 17.76 | 5.71 | 0.00 |
| Density + Insect abundance + Tarsus + Territory quality | 8 | 17.76 | 5.72 | 0.00 |
| Body mass + Group Size + Territory quality | 7 | 17.77 | 5.73 | 0.00 |
| Sex (males) + Group Size + Insect abundance + Tarsus | 8 | 17.78 | 5.73 | 0.00 |
| Helpers + Sex (males) + Insect abundance + Log age | 8 | 17.78 | 5.74 | 0.00 |
| Helpers + Body mass + Density + Log age + Tarsus | 9 | 17.80 | 5.76 | 0.00 |
| Sex (males) + Insect abundance + Tarsus + Territory quality | 8 | 17.83 | 5.78 | 0.00 |
| Helpers + Density + Log age + Tarsus + Territory quality | 9 | 17.86 | 5.82 | 0.00 |
| Helpers + Body mass + Density + Tarsus | 8 | 17.87 | 5.82 | 0.00 |
| Helpers + Density + Insect abundance | 7 | 17.87 | 5.83 | 0.00 |
| Sex (males) + Insect abundance + Log age + Territory quality | 8 | 17.91 | 5.87 | 0.00 |
| Helpers + Sex (males) + Body mass + Log age + Tarsus | 9 | 17.91 | 5.87 | 0.00 |
| Group Size + Insect abundance + Log age + Territory quality | 8 | 17.94 | 5.89 | 0.00 |
| Helpers + Sex (males) + Tarsus + Territory quality | 8 | 17.95 | 5.90 | 0.00 |
| Helpers + Sex (males) + Insect abundance + Log age + Tarsus | 9 | 17.96 | 5.91 | 0.00 |
| Helpers + Group Size + Insect abundance | 7 | 17.97 | 5.93 | 0.00 |
| Helpers + Group Size + Insect abundance + Tarsus | 8 | 17.98 | 5.94 | 0.00 |
| Sex (males) + Group Size + Tarsus + Territory quality | 8 | 17.99 | 5.95 | 0.00 |
| Sex (males) + Group Size + Log age + Territory quality | 8 | 17.99 | 5.95 | 0.00 |
| Sex (males) + Body mass + Insect abundance + Log age + Tarsus | 9 | 18.01 | 5.97 | 0.00 |
| Body mass + Density + Group Size + Log age + Tarsus | 9 | 18.02 | 5.98 | 0.00 |
| Helpers + Density + Tarsus + Territory quality | 8 | 18.02 | 5.98 | 0.00 |
| Body mass + Density + Log age + Tarsus + Territory quality | 9 | 18.03 | 5.98 | 0.00 |
| Sex (males) + Insect abundance + Log age + Tarsus + Territory quality | 9 | 18.04 | 5.99 | 0.00 |
| Helpers + Group Size + Territory quality | 7 | 18.04 | 6.00 | 0.00 |

**Figure S1** Model averaged estimates and 95% cofidence intervals for social and ecological environmental variables in relation to RTL in Seychelles warblers.



**Figure S2** Model averaged estimates and 95% cofidence intervals for social and ecological environmental variables in relation to RTL in Seychelles warblers, using longitudinal data.

