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| Model | Model description  |
| A | Closed (1/*a*1 = *N)* |
| B | Closed (*a*1 = *N*) |
| C  | Emigration/mortality (a1 = emigration rate; 1/a2=*N*) |
| D | Emigration/mortality(a1 = *N*; a2=mean residence) |
| E | Closed: emigration + re-immigration (a1 = emigration rate; a2/(a2 + a3) = proportion of population in study area at any time) |
| F | Emigration + re-immigration (a1 = *N*; a2 = res time in; a3 = res time out)  |
| G | Emigration + re-immigration + mortality |
| H | Emigration + re-immigration + mortality (a1 = *N*; a2 = res time in; a3 = res time out; a4 = mort) |

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|  | A) Males (*n* = 507) |  | B) Females (*n* = 498) |
| Location | KM | MW | MA | KM | MW | MA |
| Model | ΔQAIC | ΔQAIC | ΔQAIC | ΔQAIC | ΔAIC | ΔQAIC |
| A | 21508.8767 | 7201.8311 | 54.9819 | 78.1299 | 2.7558 | 40.8905 |
| B | 16.2036 | 7.7572 | 54.9818 | 78.1298 | 2.7558 | 40.8905 |
| C | 5.2733 | 5.1817 | 4.3354 | 6.4744 |  ~0 | 23.6264 |
| D | 5.2733 | 5.1815 | 4.3349 | 6.4743 | 0 | 23.6261 |
| E | 8.8397 | 0.9351 | 2.4273 | 63.3293 | 3.9765 | 25.3614 |
| F | 1.2962 | 0.9178 | 2.4273 | 8.4743 | 3.9711 | 0 |
| G | 0 | 232.0128 | 1.514 | 0.3141 | 2.2387 | 496.5678 |
| H |  ~0 | 0 | 0 | 0 | 3.0742 | 0.0272 |

*N* = population