***Table S2A***

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***true value*** | | ***estimated population size as a percentage of actual population*** | | | | | | | | | |
|  |  | **80%** | | **95%** | | **100%** | | **105%** | | **120%** | |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 0.61 | 0.75 | 0.43 | -0.00 | 0.11 | 0.00 | 0.00 | 0.00 | -0.10 | 0.00 | -0.38 | 0.00 |
| 0.61 | 0.95 | 0.58 | 0.00 | 0.15 | 0.00 | 0.00 | 0.00 | -0.13 | -0.00 | -0.50 | 0.00 |
| 0.05 | 0.75 | 0.32 | 0.00 | 0.09 | 0.00 | 0.01 | 0.00 | -0.04 | 0.00 | -0.05 | 0.03 |
| 0.05 | 0.95 | 0.48 | 0.00 | 0.11 | 0.00 | 0.01 | 0.00 | -0.05 | 0.01 | -0.05 | 0.05 |

***Table S2B***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **true coverage** | **estimated population size as a percentage of actual population** | | | | |
|  | **80%** | **95%** | **100%** | **105%** | **120%** |
| 49% | -0.02 | 0.17 | 0.06 | 0.06 | 0.13 |
| 52% | -1.84 | -0.31 | 0.05 | 0.52 | 2.03 |
| 62% | 3.16 | 1.20 | 0.01 | 1.01 | 8.75 |
| 63% | -0.81 | -0.02 | 0.01 | 1.64 | 9.38 |