**Appendix S4 -** **Calculation of settlement land cover within the villages.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Village  | District | Number of houses | Mean area of a homestead (m²) | Total area of settlement (m²) |
| 1 | Machinga | 258 | 140.5 ± 7.5 | 36,249 |
| 2 | Zomba | 226 | 131.2 ± 7.4 | 29,651 |
| 3 | Zomba | 252 | 119.4 ± 6.7 | 30,089 |
| 4 | Zomba | 190 | 110.6 ± 6.9 | 21,014 |

Table S4. Calculated area of homestead and settlement areas within the villages based upon a sample of 100 randomly selected households within the village using ArcMap 10.1 software.