**S2 Table: Estimates of *Leptospira* shedding considering rat demographic structure for the total and individual populations in Salvador, 2010**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | No. of rats1 | Prevalence in urine2 | ml/ day3 | Log10 GEq/ml4 |  Log10 Leptospires shed per day5 | Log10 Leptospires per m2 of soil /day |
| Total | 82 |  |  |  | 9.1 | 5.0 |
|  Juvenile | 16 | 0.77 | 15 | 5.6 |  |  |
|  Sub-adult | 46 | 0.92 | 20 | 5.9 |  |  |
|  Adult | 20 | 0.95 | 20 | 6 |  |  |
| Site PL1 | 15 |  |  |  | 10.6 | 6.5 |
|  Juvenile | 1 | 1 | 15 | 6.7 |  |  |
|  Sub-adult | 8 | 1 | 20 | 8.3 |  |  |
|  Adult | 6 | 0.83 | 20 | 7.8 |  |  |
| Site PL2 | 15 |  |  |  | 9.6 | 5,6 |
|  Juvenile | 3 | 1 | 15 | 6.7 |  |  |
|  Sub-adult | 9 | 0.86 | 20 | 7.3 |  |  |
|  Adult | 3 | 1 | 20 | 6.5 |  |  |
| Site PL6 | 6 |  |  |  | 9.6 | 5.5 |
|  Juvenile | 1 | 1 | NA | 2.6 |  |  |
|  Sub-adult | 4 | 0.75 | 20 | 7.7 |  |  |
|  Adult | 1 | 1 | 20 | 7.6 |  |  |
| Site PL8 | 9 |  |  |  | 8,4 | 4.3 |
|  Juvenile | 0 |  | 15 |  |  |  |
|  Sub-adult | 5 | 0.5 | 20 | 2.2 |  |  |
|  Adult | 4 | 0.75 | 20 | 6.6 |  |  |
| Site 7A | 37 |  |  |  | 9.3 | 5.2 |
|  Juvenile | 11 | 0.5 | 15 | 4.6 |  |  |
|  Sub-adult | 20 | 0.77 | 20 | 6.7 |  |  |
|  Adult | 6 | 1 | 20 | 6.5 |  |  |
|  |  |  |  |  |  |  |

1 Number of rats in each mass/age class (NR.)

2*Leptospira* prevalence in kidney (PREV: Table 1).

3 Volume (ml) of urine shed per 24 hours (VOL) as described by Donaldson [43].

4 Genomic equivalents of *Leptospira* per ml (LOAD: Table 1).

5 Based on density of rats (DENS) captured around households.