Appendix 1

Data set for Monge-Nájera, Barrientos and Zúñiga. A Satellite and Ground Evaluation of Urban Vegetation and Infrastructure in the Landscape of a Tropical City: Heredia, Costa Rica

Data for Fig. 4:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *Cantón* (geographic unit) | Cover (Satellite) Vegetation (m2) | Infrastructure (Satellite) (m2) | Cantón total area km2 | % Vegetation (Satellite) | % Infrastructure (Satellite) |
| Barva | 52252984,96 | 3740072,18 | 55993057,14 | 93,32 | 6,68 |
| Belen | 7851805,07 | 4500766,62 | 12352571,69 | 63,56 | 36,44 |
| Flores | 4509154,66 | 2266285,81 | 6775440,47 | 66,55 | 33,45 |
| Heredia | 13023219,63 | 12082614,61 | 25105834,24 | 51,87 | 48,13 |
| San Isidro | 24529238,34 | 1998923,18 | 26528161,52 | 92,46 | 7,54 |
| San Pablo | 5676881,78 | 2652893,64 | 8329775,42 | 68,15 | 31,85 |
| San Rafael | 43881225,69 | 4142067,34 | 48023293,03 | 91,37 | 8,63 |
| Santa Barbara | 48714728,87 | 3535743,53 | 52250472,40 | 93,23 | 6,77 |
| Santo Domingo | 18378560,91 | 6533184,69 | 24911745,60 | 73,77 | 26,23 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *Cantón* | Grid counts Vegetation | Grid counts Infrastructure (roads m) | *Cantón* Grid count total (billboards not included) | % Vegetation | % Infrastructure |
| Barva | 226 | 195 | 425 | 53,2 | 45,9 |
| Belen | 77 | 115 | 192 | 40,1 | 59,9 |
| Heredia | 339 | 371 | 710 | 47,7 | 52,3 |
| San isidro | 110 | 96 | 206 | 53,4 | 46,6 |
| San pablo | 39 | 133 | 172 | 22,7 | 77,3 |
| San rafael | 210 | 114 | 324 | 64,8 | 35,2 |
| Santa barbara | 208 | 184 | 392 | 53,1 | 46,9 |
| Santo Domingo | 624 | 626 | 1250 | 49,9 | 50,1 |
| Flores | 70 | 113 | 183 | 38,3 | 61,7 |

Data for Fig. 5:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *Cantón* | Population | Density | Grid count total | Grid count Vegetation | Grid count Buildings | Grid count Roads | Grid count Billboards | Total Road Infrastructure | Total Road, Infrastructure and Vegetation counts | Sample size |
| Barva | 32440 | 302 | 425 | 226 | 117 | 78 | 4 | 195 | 421 | 11 |
| Belen | 19834 | 816 | 193 | 77 | 41 | 74 | 1 | 115 | 192 | 4 |
| Heredia | 103204 | 2067 | 716 | 339 | 226 | 145 | 6 | 371 | 710 | 15 |
| San Isidro | 16056 | 298 | 206 | 110 | 47 | 49 | 0 | 96 | 206 | 7 |
| San Pablo | 20813 | 1382 | 172 | 39 | 92 | 41 | 0 | 133 | 172 | 4 |
| San Rafael | 37293 | 385 | 324 | 210 | 56 | 58 | 0 | 114 | 324 | 9 |
| Santa Barbara | 29181 | 274 | 393 | 208 | 101 | 83 | 1 | 184 | 392 | 9 |
| Santo Domingo | 34748 | 699 | 1252 | 624 | 327 | 299 | 2 | 626 | 1250 | 33 |
| Flores | 15038 | 1080 | 184 | 70 | 54 | 59 | 1 | 113 | 183 | 4 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *Cantón* | Population | Density | Grid count total | % Grid count Vegetation | % Grid count Buildings | % Grid count Roads | % Grid count Billboards | Sample Size |
| Barva | 32440 | 302 | 425 | 53.2 | 27.5 | 18.4 | 0.9 | 11 |
| Belen | 19834 | 816 | 193 | 40.9 | 21.2 | 38.3 | 0.5 | 4 |
| Heredia | 103204 | 2067 | 716 | 47.3 | 31.6 | 20.3 | 0.8 | 15 |
| San Isidro | 16056 | 298 | 206 | 53.4 | 22.8 | 23.8 | 0 | 7 |
| San Pablo | 20813 | 1382 | 172 | 22.7 | 53.5 | 23.8 | 0 | 4 |
| San Rafael | 37293 | 385 | 324 | 64.8 | 17.3 | 17.9 | 0 | 9 |
| Santa Barbara | 29181 | 274 | 393 | 53.9 | 25.7 | 21.1 | 0.3 | 9 |
| Santo Domingo | 34748 | 699 | 1252 | 49.8 | 26.1 | 23.9 | 0.2 | 33 |
| Flores | 15038 | 1080 | 184 | 38.0 | 29.4 | 32.1 | 0.5 | 4 |