**S1 Appendix. Sample composition**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Districts | Permanent population1 | |  | Theoretical sample size | |  | Actual sample size | |
| Population(\* 10 thousand) | Proportion |  | Sample size | Proportion |  | Sample size | Proportion |
| Baiyun | 257.2 | 17.7% |  | 106 | 17.7% |  | 97 | 16.3% |
| Panyu | 171.9 | 11.9% |  | 71 | 11.8% |  | 74 | 12.4% |
| Haizhu | 166.3 | 11.5% |  | 69 | 11.5% |  | 57 | 9.6% |
| Huangpu | 166.3 | 11.5% |  | 45 | 7.5% |  | 40 | 6.7% |
| Liwan | 95.0 | 6.6% |  | 39 | 6.5% |  | 50 | 8.4% |
| Tianhe | 169.8 | 11.7% |  | 70 | 11.7% |  | 79 | 13.3% |
| Yuexiu | 116.4 | 8.0% |  | 48 | 8.0% |  | 49 | 8.2% |
| Zengcheng | 119.8 | 8.3% |  | 50 | 8.3% |  | 49 | 8.2% |
| Huadu | 119.8 | 8.3% |  | 45 | 7.5% |  | 39 | 6.6% |
| Conghua | 64.2 | 4.4% |  | 27 | 4.5% |  | 29 | 4.9% |
| Nansha | 72.5 | 5.0% |  | 20 | 5.0% |  | 32 | 5.4% |
| Total | 1447.8 | 100.0% |  | 600 | 100.0% |  | 595 | 100.0% |

Note. 1Data comes from Population size and Distribution of Guangzhou in 2018.