## Cluster Sampling using Probability Proportional to Population Size

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| No | Villages | Number of households | Population per village | Cumulative population | Range of cum. pop | Number of clusters per village |
| 1 | Kapise | 302 | 1,404  |  1,404  | 1 -1,404  | 1 |
| 2 | Ntasa | 105 | 488  |  1,892  | 1,405 - 1,892  | 1 |
| 3 | Kachipanda | 97  | 450  |  2,342  | 1,893 -2,342  | 0 |
| 4 | Faiti |  301  | 1,396  |  3,738  | 2,343 - 3,738  | 1 |
| 5 | Biliwiri |  144  | 669  |  4,407  | 3,739 - 4,407  | 1 |
| 6 | Kamwendo | 82  | 380  |  4,787  | 4,408 - 4,787  | 0 |
| 7 | Chenedi | 40  | 184  |  4,971  | 4,788 - 4,971  | 0 |
| 8 | Kasuza |  484  | 2,250  |  7,221  | 4,972 - 7,221  | 2 |
| 9 | Nkulira I |  188  | 872  |  8,093  | 7,222 - 8,093  | 0 |
| 10 | Kabango |  158  | 732  |  8,825  | 8,094 - 8,825  | 1 |
| 11 | Kasapha |  392  | 1,823  |  10,648  | 8,826 -10,648  | 1 |
| 12 | Mpandasoni |  416  | 1,930  |  12,578  | 10,649 - 12,578  | 2 |
| 13 | Masokosa |  150  | 695  |  13,273  | 12,579 - 13,273  | 0 |
| 14 | Mkwete |  267  | 1,240  |  14,513  | 13,274 - 14,513  | 1 |
| 15 | Dzilima |  163  | 756  |  15,269  | 14,514 - 15,269  | 1 |
| 16 | Chiwembu |  163  | 755  |  16,024  | 15,270 - 16,024  | 0 |
| 17 | Njanjama I |  157  | 731  |  16,755  | 16,025 - 16,755  | 1 |
| 18 | Makanani |  204  | 948  |  17,703  | 16,756 - 17,703  | 1 |
| 19 | Kanyani |  378  | 1,754  |  19,457  | 17,704 - 19,457  | 1 |
| 20 | Njanjama II | 77 | 357 | 19,814 | 19,458 –19,814 | 0 |
| 21 | Kagulo II |  98  | 456  |  20,270  | 19,815 - 20,270  | 0 |
| 22 | Chimlango |  96  | 447  |  20,717  | 20,271 - 20,717  | 1 |
| 23 | Golowa |  140  | 652  |  21,369  | 20,718 - 21,369  | 0 |
| 24 | Nkulira II |  142  | 658  |  22,027  | 21,370 -22,027  | 1 |
| 25 | Chimbwinda |  157  | 729  |  22,756  | 22,028 - 22,756  | 0 |
| 26 | Silota |  122  | 568  |  23,324  | 22,757 - 23,324  | 1 |
| 27 | Kagulo I |  135  | 628  |  23,952  | 23,325 - 23,952  | 0 |
| 28 | Nthache |  287  | 1,334  |  25,286  | 23,953 - 25,286  | 1 |
| 29 | Kagonamwake |  145  | 675  |  25,961  | 25,287 - 25,961  | 1 |
| 30 | Kapherana |  137  | 637  |  26,598  | 25,962 - 26,598  | 0 |
| 31 | Ilemba |  127  | 588  |  27,186  | 26,599 - 27,186  | 1 |
| 32 | Chikoleka | 83  | 385  |  27,571  | 27,187 - 27,571  | 0 |
| 33 | Ndilire |  100  | 465  |  28,036  | 27,572 - 28,036  | 0 |
| 34 | Galatiya |  118  | 549  |  28,585  | 28,037 - 28,585  | 1 |
| 35 | Chiwambo |  135  | 626  |  29,211  | 28,586 - 29,211  | 0 |
| 36 | Mangulenje | 74  | 345  |  29,556  | 29,212 - 29,556  | 0 |
| 37 | Ng’onzo I |  127  | 590  |  30,146  | 29,557 - 30,146  | 1 |
| 38 | Ng’onzo II |  136  | 633  |  30,779  | 30,147 - 30,779  | 0 |
| 39 | Pfupa I |  138  | 643  |  31,422  | 30,780 -31,422  | 1 |
| 40 | Pfupa II |  134  | 622  |  32,044  | 31,423 - 32,044  | 0 |
| 41 | Nguteya |  128  | 593  |  32,637  | 32,045 - 32,637  | 1 |
| 42 | Gunde |  122  |  593  |  33,230  | 32,638 - 33,230  | 0 |
| 43 | Gwiremchira |  138  | 640  |  33,870  | 33,231 -33,870  | 0 |
| Total |  7,287 |  33,870 |   |   |  25 |