|  | \*Toilet\* | | | \*Handwashing facility\* | | | \*Soild Waste\* | | | \*Soap/Detergent\* | | | \*Kitchen Area\* | | | \*Bathroom\* | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Characteristic | available  N = 7421 | not available  N = 491 | p-value2 | available  N = 2401 | not available  N = 5511 | p-value3 | available  N = 4731 | not available  N = 3181 | p-value3 | available  N = 1711 | not available  N = 6201 | p-value2 | available  N = 5511 | not available  N = 2401 | p-value3 | available  N = 7441 | not available  N = 471 | p-value2 |
| sex |  |  | 0.8 |  |  | >0.9 |  |  | 0.2 |  |  | 0.9 |  |  | 0.6 |  |  | 0.8 |
| female | 565 (76%) | 38 (78%) |  | 183 (76%) | 420 (76%) |  | 369 (78%) | 234 (74%) |  | 131 (77%) | 472 (76%) |  | 417 (76%) | 186 (78%) |  | 568 (76%) | 35 (74%) |  |
| male | 177 (24%) | 11 (22%) |  | 57 (24%) | 131 (24%) |  | 104 (22%) | 84 (26%) |  | 40 (23%) | 148 (24%) |  | 134 (24%) | 54 (23%) |  | 176 (24%) | 12 (26%) |  |
| Age group |  |  | 0.7 |  |  | 0.6 |  |  | 0.3 |  |  | 0.14 |  |  | >0.9 |  |  | 0.3 |
| >50 | 161 (22%) | 12 (24%) |  | 51 (21%) | 122 (22%) |  | 110 (23%) | 63 (20%) |  | 35 (20%) | 138 (22%) |  | 120 (22%) | 53 (22%) |  | 164 (22%) | 9 (19%) |  |
| 18-30 | 268 (36%) | 19 (39%) |  | 93 (39%) | 194 (35%) |  | 175 (37%) | 112 (35%) |  | 73 (43%) | 214 (35%) |  | 200 (36%) | 87 (36%) |  | 274 (37%) | 13 (28%) |  |
| 31-50 | 313 (42%) | 18 (37%) |  | 96 (40%) | 235 (43%) |  | 188 (40%) | 143 (45%) |  | 63 (37%) | 268 (43%) |  | 231 (42%) | 100 (42%) |  | 306 (41%) | 25 (53%) |  |
| Level education |  |  | 0.071 |  |  | >0.9 |  |  | >0.9 |  |  | 0.7 |  |  | 0.5 |  |  | 0.069 |
| none | 96 (13%) | 12 (24%) |  | 31 (13%) | 77 (14%) |  | 66 (14%) | 42 (13%) |  | 27 (16%) | 81 (13%) |  | 75 (14%) | 33 (14%) |  | 98 (13%) | 10 (21%) |  |
| primary | 464 (63%) | 31 (63%) |  | 150 (63%) | 345 (63%) |  | 294 (62%) | 201 (63%) |  | 102 (60%) | 393 (63%) |  | 338 (61%) | 157 (65%) |  | 468 (63%) | 27 (57%) |  |
| secondary | 164 (22%) | 6 (12%) |  | 54 (23%) | 116 (21%) |  | 102 (22%) | 68 (21%) |  | 38 (22%) | 132 (21%) |  | 126 (23%) | 44 (18%) |  | 163 (22%) | 7 (15%) |  |
| tertiary | 18 (2.4%) | 0 (0%) |  | 5 (2.1%) | 13 (2.4%) |  | 11 (2.3%) | 7 (2.2%) |  | 4 (2.3%) | 14 (2.3%) |  | 12 (2.2%) | 6 (2.5%) |  | 15 (2.0%) | 3 (6.4%) |  |
| religion |  |  | 0.2 |  |  | 0.015 |  |  | 0.062 |  |  | 0.005 |  |  | 0.14 |  |  | 0.10 |
| Christianity | 556 (75%) | 32 (65%) |  | 170 (71%) | 418 (76%) |  | 365 (77%) | 223 (70%) |  | 114 (67%) | 474 (76%) |  | 420 (76%) | 168 (70%) |  | 559 (75%) | 29 (62%) |  |
| muslim | 163 (22%) | 16 (33%) |  | 67 (28%) | 112 (20%) |  | 97 (21%) | 82 (26%) |  | 54 (32%) | 125 (20%) |  | 117 (21%) | 62 (26%) |  | 163 (22%) | 16 (34%) |  |
| others regligion | 23 (3.1%) | 1 (2.0%) |  | 3 (1.3%) | 21 (3.8%) |  | 11 (2.3%) | 13 (4.1%) |  | 3 (1.8%) | 21 (3.4%) |  | 14 (2.5%) | 10 (4.2%) |  | 22 (3.0%) | 2 (4.3%) |  |
| marital\_status |  |  | 0.6 |  |  | >0.9 |  |  | 0.9 |  |  | 0.6 |  |  | 0.071 |  |  | 0.4 |
| divorced | 57 (7.7%) | 3 (6.1%) |  | 16 (6.7%) | 44 (8.0%) |  | 37 (7.8%) | 23 (7.2%) |  | 9 (5.3%) | 51 (8.2%) |  | 37 (6.7%) | 23 (9.6%) |  | 57 (7.7%) | 3 (6.4%) |  |
| married | 529 (71%) | 35 (71%) |  | 174 (73%) | 390 (71%) |  | 341 (72%) | 223 (70%) |  | 129 (75%) | 435 (70%) |  | 406 (74%) | 158 (66%) |  | 530 (71%) | 34 (72%) |  |
| separated | 27 (3.6%) | 2 (4.1%) |  | 9 (3.8%) | 20 (3.6%) |  | 18 (3.8%) | 11 (3.5%) |  | 6 (3.5%) | 23 (3.7%) |  | 23 (4.2%) | 6 (2.5%) |  | 29 (3.9%) | 0 (0%) |  |
| single | 65 (8.8%) | 3 (6.1%) |  | 20 (8.3%) | 48 (8.7%) |  | 38 (8.0%) | 30 (9.4%) |  | 12 (7.0%) | 56 (9.0%) |  | 45 (8.2%) | 23 (9.6%) |  | 64 (8.6%) | 4 (8.5%) |  |
| widow | 47 (6.3%) | 6 (12%) |  | 15 (6.3%) | 38 (6.9%) |  | 31 (6.6%) | 22 (6.9%) |  | 10 (5.8%) | 43 (6.9%) |  | 30 (5.4%) | 23 (9.6%) |  | 47 (6.3%) | 6 (13%) |  |
| widower | 17 (2.3%) | 0 (0%) |  | 6 (2.5%) | 11 (2.0%) |  | 8 (1.7%) | 9 (2.8%) |  | 5 (2.9%) | 12 (1.9%) |  | 10 (1.8%) | 7 (2.9%) |  | 17 (2.3%) | 0 (0%) |  |
| ethnicity |  |  | 0.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.5 |
| chewa | 366 (49%) | 22 (45%) |  | 120 (50%) | 268 (49%) |  | 245 (52%) | 143 (45%) |  | 84 (49%) | 304 (49%) |  | 267 (48%) | 121 (50%) |  | 366 (49%) | 22 (47%) |  |
| lomwe | 62 (8.4%) | 3 (6.1%) |  | 17 (7.1%) | 48 (8.7%) |  | 37 (7.8%) | 28 (8.8%) |  | 11 (6.4%) | 54 (8.7%) |  | 53 (9.6%) | 12 (5.0%) |  | 62 (8.3%) | 3 (6.4%) |  |
| ngonde | 4 (0.5%) | 0 (0%) |  | 2 (0.8%) | 2 (0.4%) |  | 2 (0.4%) | 2 (0.6%) |  | 0 (0%) | 4 (0.6%) |  | 2 (0.4%) | 2 (0.8%) |  | 4 (0.5%) | 0 (0%) |  |
| ngoni | 96 (13%) | 5 (10%) |  | 19 (7.9%) | 82 (15%) |  | 55 (12%) | 46 (14%) |  | 13 (7.6%) | 88 (14%) |  | 74 (13%) | 27 (11%) |  | 97 (13%) | 4 (8.5%) |  |
| nyanja | 12 (1.6%) | 2 (4.1%) |  | 1 (0.4%) | 13 (2.4%) |  | 7 (1.5%) | 7 (2.2%) |  | 1 (0.6%) | 13 (2.1%) |  | 9 (1.6%) | 5 (2.1%) |  | 12 (1.6%) | 2 (4.3%) |  |
| other enthni | 8 (1.1%) | 1 (2.0%) |  | 1 (0.4%) | 8 (1.5%) |  | 7 (1.5%) | 2 (0.6%) |  | 2 (1.2%) | 7 (1.1%) |  | 6 (1.1%) | 3 (1.3%) |  | 9 (1.2%) | 0 (0%) |  |
| sena | 3 (0.4%) | 0 (0%) |  | 1 (0.4%) | 2 (0.4%) |  | 0 (0%) | 3 (0.9%) |  | 1 (0.6%) | 2 (0.3%) |  | 2 (0.4%) | 1 (0.4%) |  | 3 (0.4%) | 0 (0%) |  |
| tonga | 23 (3.1%) | 1 (2.0%) |  | 7 (2.9%) | 17 (3.1%) |  | 20 (4.2%) | 4 (1.3%) |  | 3 (1.8%) | 21 (3.4%) |  | 18 (3.3%) | 6 (2.5%) |  | 24 (3.2%) | 0 (0%) |  |
| tumbuka | 11 (1.5%) | 0 (0%) |  | 5 (2.1%) | 6 (1.1%) |  | 9 (1.9%) | 2 (0.6%) |  | 3 (1.8%) | 8 (1.3%) |  | 10 (1.8%) | 1 (0.4%) |  | 11 (1.5%) | 0 (0%) |  |
| yao | 157 (21%) | 15 (31%) |  | 67 (28%) | 105 (19%) |  | 91 (19%) | 81 (25%) |  | 53 (31%) | 119 (19%) |  | 110 (20%) | 62 (26%) |  | 156 (21%) | 16 (34%) |  |
| district |  |  | 0.3 |  |  | <0.001 |  |  | 0.007 |  |  | <0.001 |  |  | 0.6 |  |  |  |
| Balaka | 31 (4.2%) | 3 (6.1%) |  | 5 (2.1%) | 29 (5.3%) |  | 18 (3.8%) | 16 (5.0%) |  | 4 (2.3%) | 30 (4.8%) |  | 24 (4.4%) | 10 (4.2%) |  | 29 (3.9%) | 5 (11%) |  |
| Blantyre | 119 (16%) | 11 (22%) |  | 26 (11%) | 104 (19%) |  | 66 (14%) | 64 (20%) |  | 17 (9.9%) | 113 (18%) |  | 85 (15%) | 45 (19%) |  | 124 (17%) | 6 (13%) |  |
| Dedza | 100 (13%) | 5 (10%) |  | 22 (9.2%) | 83 (15%) |  | 61 (13%) | 44 (14%) |  | 8 (4.7%) | 97 (16%) |  | 70 (13%) | 35 (15%) |  | 101 (14%) | 4 (8.5%) |  |
| Lilongwe | 280 (38%) | 16 (33%) |  | 97 (40%) | 199 (36%) |  | 196 (41%) | 100 (31%) |  | 72 (42%) | 224 (36%) |  | 216 (39%) | 80 (33%) |  | 276 (37%) | 20 (43%) |  |
| Mangochi | 117 (16%) | 12 (24%) |  | 56 (23%) | 73 (13%) |  | 73 (15%) | 56 (18%) |  | 47 (27%) | 82 (13%) |  | 86 (16%) | 43 (18%) |  | 119 (16%) | 10 (21%) |  |
| Nkhatabay | 35 (4.7%) | 1 (2.0%) |  | 11 (4.6%) | 25 (4.5%) |  | 28 (5.9%) | 8 (2.5%) |  | 7 (4.1%) | 29 (4.7%) |  | 28 (5.1%) | 8 (3.3%) |  | 36 (4.8%) | 0 (0%) |  |
| Salima | 60 (8.1%) | 1 (2.0%) |  | 23 (9.6%) | 38 (6.9%) |  | 31 (6.6%) | 30 (9.4%) |  | 16 (9.4%) | 45 (7.3%) |  | 42 (7.6%) | 19 (7.9%) |  | 59 (7.9%) | 2 (4.3%) |  |
| residence |  |  | 0.8 |  |  | 0.008 |  |  | 0.4 |  |  | 0.001 |  |  | 0.9 |  |  | 0.6 |
| in land | 499 (67%) | 32 (65%) |  | 145 (60%) | 386 (70%) |  | 323 (68%) | 208 (65%) |  | 97 (57%) | 434 (70%) |  | 371 (67%) | 160 (67%) |  | 501 (67%) | 30 (64%) |  |
| lake share | 243 (33%) | 17 (35%) |  | 95 (40%) | 165 (30%) |  | 150 (32%) | 110 (35%) |  | 74 (43%) | 186 (30%) |  | 180 (33%) | 80 (33%) |  | 243 (33%) | 17 (36%) |  |
| 1n (%) | | | | | | | | | | | | | | | | | | |
| 2Pearson's Chi-squared test; Fisher's exact test | | | | | | | | | | | | | | | | | | |
| 3Pearson's Chi-squared test | | | | | | | | | | | | | | | | | | |