Economic Clustering Summary Report: Lesotho 2014

# Data Summary

**Country Code-year:** LS14

**Number of observations:** 9402

**Number of variables used:** 20

**Variable set used:** 1

**Variables used in the algorithm:** hv206, hv207, hv208, hv209, hv212, hv237, hv243a, hv243b, hv244, hv246, hv247, sh110b, sh110c, sh110k, water, toilet, floor, roof, cookfuel, wall

# Top 10 Variable Sets (Sorted by ASW)

| Set | ASW | Var.1 | Var.2 | Var.3 | Var.4 |
| --- | --- | --- | --- | --- | --- |
| 1 | 0.9017 | has electricity | has car/truck | has mobile telephone | battery or generator |
| 2 | 0.896 | has electricity | has car/truck | has mobile telephone | solar panel |
| 3 | 0.8898 | has refrigerator | has car/truck | has mobile telephone | battery or generator |
| 4 | 0.8824 | has television | has refrigerator | has car/truck | has mobile telephone |
| 5 | 0.8818 | has car/truck | has mobile telephone | battery or generator | solar panel |
| 6 | 0.8812 | has refrigerator | has car/truck | has mobile telephone | internet access |
| 7 | 0.8803 | has electricity | has refrigerator | has mobile telephone | battery or generator |
| 8 | 0.8799 | has car/truck | has mobile telephone | battery or generator | internet access |
| 9 | 0.8784 | has car/truck | anything done to water to make safe to drink | has mobile telephone | battery or generator |
| 10 | 0.8784 | has refrigerator | has car/truck | has mobile telephone | solar panel |

# Marginal Distributions

| Variable | Description | % in Top Sets | Distribution |
| --- | --- | --- | --- |
| hv206 | has electricity | 30% | Binary, 25.9% (1/yes) |
| hv209 | has refrigerator | 50% | Binary, 19.8% (1/yes) |
| hv208 | has television | 10% | Binary, 25.3% (1/yes) |
| hv212 | has car/truck | 90% | Binary, 9.6% (1/yes) |
| hv243a | has mobile telephone | 100% | Binary, 82.1% (1/yes) |
| hv237 | anything done to water to make safe to drink | 10% | Binary, 11.3% (1/yes) |
| sh110b | battery or generator | 60% | Binary, 11.1% (1/yes) |
| sh110c | solar panel | 30% | Binary, 17% (1/yes) |
| sh110k | internet access | 20% | Binary, 16% (1/yes) |

# Cluster Configuration (Set #1)

| Cluster Group | has electricity | has car/truck | has mobile telephone | battery or generator | Proportion (%) |
| --- | --- | --- | --- | --- | --- |
| 1 | 0 | 0 | 1 | 1 | 8.89 |
| 1 | 0 | 1 | 1 | 1 |  |
| 2 | 1 | 1 | 0 | 0 | 6.72 |
| 2 | 1 | 1 | 1 | 0 |  |
| 2 | 1 | 1 | 1 | 1 |  |
| 3 | 1 | 0 | 0 | 0 | 19.18 |
| 3 | 1 | 0 | 0 | 1 |  |
| 3 | 1 | 0 | 1 | 0 |  |
| 3 | 1 | 0 | 1 | 1 |  |
| 4 | 0 | 0 | 1 | 0 | 48.12 |
| 4 | 0 | 1 | 1 | 0 |  |
| 5 | 0 | 0 | 0 | 0 | 17.09 |
| 5 | 0 | 0 | 0 | 1 |  |
| 5 | 0 | 1 | 0 | 0 |  |
| 5 | 0 | 1 | 0 | 1 |  |

# Validation Tables

## a.1) Using Children Deceased (Sorted by proportion of 0%)

| Cluster ID/Children Deceased | 0% | 1-33% | 34-66% | 67+% |
| --- | --- | --- | --- | --- |
| 2\* | 481 (89.9%) | 33 (6.2%) | 13 (2.4%) | 8 (1.5%) |
| 3 | 1,355 (89.8%) | 79 (5.2%) | 58 (3.8%) | 17 (1.1%) |
| 4 | 2,840 (86.5%) | 264 (8.0%) | 142 (4.3%) | 37 (1.1%) |
| 1 | 620 (84.5%) | 69 (9.4%) | 28 (3.8%) | 17 (2.3%) |
| 5 | 458 (81.8%) | 69 (12.3%) | 28 (5.0%) | 5 (0.9%) |
| Total | 5,754 (86.9%) | 514 (7.8%) | 269 (4.1%) | 84 (1.3%) |
| \*The chi-squared p-value is 0 | | | | |

## a.2) Aggregating proportions greater than 0%

| Cluster ID/Children Deceased | 0% | >0% |
| --- | --- | --- |
| 2\* | 481 (89.9%) | 54 (10.1%) |
| 3 | 1,355 (89.8%) | 154 (10.2%) |
| 4 | 2,840 (86.5%) | 443 (13.5%) |
| 1 | 620 (84.5%) | 114 (15.5%) |
| 5 | 458 (81.8%) | 102 (18.2%) |
| Total | 5,754 (86.9%) | 867 (13.1%) |
| \*The chi-squared p-value is 0 | | |

## b) Using Individual Education Level Attained (Sorted by weighted average by row)

| Cluster ID/Education | 0 | 1 | 2 | 3 | 4 | 5 | W. Avg. |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 2\*a | 2 (0.4%) | 22 (4.1%) | 50 (9.3%) | 214 (40.0%) | 101 (18.9%) | 146 (27.3%) | 3.55 |
| 3 | 8 (0.5%) | 140 (9.3%) | 205 (13.6%) | 686 (45.5%) | 233 (15.4%) | 237 (15.7%) | 3.13 |
| 1 | 4 (0.5%) | 127 (17.3%) | 138 (18.8%) | 353 (48.1%) | 72 (9.8%) | 40 (5.4%) | 2.66 |
| 4 | 41 (1.2%) | 750 (22.8%) | 840 (25.6%) | 1,337 (40.7%) | 219 (6.7%) | 96 (2.9%) | 2.37 |
| 5 | 26 (4.6%) | 243 (43.4%) | 150 (26.8%) | 133 (23.8%) | 6 (1.1%) | 2 (0.4%) | 1.74 |
| Total | 81 (1.2%) | 1,282 (19.4%) | 1,383 (20.9%) | 2,723 (41.1%) | 631 (9.5%) | 521 (7.9%) | 2.62 |
| \*The chi-squared p-value is 0 | | | | | | | |
| a0=none, 1=incomplete primary, 2=primary, 3=incomplete secondary, 4=secondary, 5=higher | | | | | | | |

## c) Using Primary Healthcare Source (Sorted by % enrolled in public healthcare [ascending order])

| Cluster ID/Primary Healthcare Source | 0 | 1 | 2 |
| --- | --- | --- | --- |
| 2\*a | 114 (43.5%) | 140 (53.4%) | 8 (3.1%) |
| 3 | 349 (46.4%) | 341 (45.3%) | 62 (8.2%) |
| 1 | 234 (60.6%) | 126 (32.6%) | 26 (6.7%) |
| 4 | 1,034 (65.7%) | 432 (27.4%) | 109 (6.9%) |
| 5 | 156 (72.9%) | 32 (15.0%) | 26 (12.1%) |
| Total | 1,887 (59.2%) | 1,071 (33.6%) | 231 (7.2%) |
| \*The chi-squared p-value is 0 | | | |
| a0=public/government, 1=private, 2=other | | | |