Economic Clustering Summary Report: Lesotho 2014

# Data Summary

**Country Code-year:** LS14

**Number of observations:** 9402

**Number of variables used:** 21

**Variable set used:** 1

**Variables used in the algorithm:** hv206, hv207, hv208, hv209, hv212, hv237, hv237a, 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 | 0.9662 | anything done to water to make safe to drink | water usually treated by: boil | has mobile telephone | internet access |
| 2 | 0.9661 | has car/truck | anything done to water to make safe to drink | water usually treated by: boil | has mobile telephone |
| 3 | 0.9637 | has refrigerator | anything done to water to make safe to drink | water usually treated by: boil | has mobile telephone |
| 4 | 0.961 | has television | anything done to water to make safe to drink | water usually treated by: boil | has mobile telephone |
| 5 | 0.9589 | anything done to water to make safe to drink | water usually treated by: boil | has mobile telephone | roof |
| 6 | 0.9586 | anything done to water to make safe to drink | water usually treated by: boil | has mobile telephone | has watch |
| 7 | 0.9579 | anything done to water to make safe to drink | water usually treated by: boil | has mobile telephone | battery or generator |
| 8 | 0.9572 | anything done to water to make safe to drink | water usually treated by: boil | battery or generator | roof |
| 9 | 0.957 | has electricity | anything done to water to make safe to drink | water usually treated by: boil | has mobile telephone |
| 10 | 0.9562 | anything done to water to make safe to drink | water usually treated by: boil | battery or generator | solar panel |

# Marginal Distributions

| Variable | Description | % in Top Sets | Distribution |
| --- | --- | --- | --- |
| hv237 | anything done to water to make safe to drink | 100% | Binary, 11.3% (1/yes) |
| hv212 | has car/truck | 10% | Binary, 9.6% (1/yes) |
| hv209 | has refrigerator | 10% | Binary, 19.8% (1/yes) |
| hv208 | has television | 10% | Binary, 25.3% (1/yes) |
| hv206 | has electricity | 10% | Binary, 25.9% (1/yes) |
| hv237a | water usually treated by: boil | 100% | Binary, 9.9% (1/yes) |
| hv243a | has mobile telephone | 80% | Binary, 82.1% (1/yes) |
| sh110b | battery or generator | 30% | Binary, 11.1% (1/yes) |
| sh110k | internet access | 10% | Binary, 16% (1/yes) |
| roof | roof | 20% | Categorical, 0 (finished) = 69.3%,   1 (natural) = 30.5%,   2 (rudimentary) = 0.2% |
| hv243b | has watch | 10% | Binary, 12.9% (1/yes) |
| sh110c | solar panel | 10% | Binary, 17% (1/yes) |

# Cluster Configuration (Set #1)

| Cluster Group | anything done to water to make safe to drink | water usually treated by: boil | has mobile telephone | internet access | Proportion (%) |
| --- | --- | --- | --- | --- | --- |
| 1 | 0 | 0 | 1 | 1 | 12.25 |
| 1 | 1 | 0 | 1 | 1 |  |
| 2 | 0 | 0 | 1 | 0 | 60.60 |
| 2 | 1 | 0 | 1 | 0 |  |
| 3 | 1 | 1 | 0 | 0 | 6.22 |
| 3 | 1 | 1 | 1 | 0 |  |
| 4 | 1 | 1 | 0 | 1 | 3.69 |
| 4 | 1 | 1 | 1 | 1 |  |
| 5 | 0 | 0 | 0 | 0 | 17.23 |
| 5 | 0 | 0 | 0 | 1 |  |
| 5 | 1 | 0 | 0 | 0 |  |

# Validation Tables

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

| Cluster ID/Children Deceased | 0% | 1-33% | 34-66% | 67+% |
| --- | --- | --- | --- | --- |
| 4\* | 306 (91.6%) | 15 (4.5%) | 10 (3.0%) | 3 (0.9%) |
| 1 | 973 (91.1%) | 50 (4.7%) | 32 (3.0%) | 13 (1.2%) |
| 2 | 3,667 (86.4%) | 345 (8.1%) | 180 (4.2%) | 53 (1.2%) |
| 3 | 355 (84.3%) | 35 (8.3%) | 21 (5.0%) | 10 (2.4%) |
| 5 | 453 (81.9%) | 69 (12.5%) | 26 (4.7%) | 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% |
| --- | --- | --- |
| 4\* | 306 (91.6%) | 28 (8.4%) |
| 1 | 973 (91.1%) | 95 (8.9%) |
| 2 | 3,667 (86.4%) | 578 (13.6%) |
| 3 | 355 (84.3%) | 66 (15.7%) |
| 5 | 453 (81.9%) | 100 (18.1%) |
| 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. |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 4\*a | 1 (0.3%) | 9 (2.7%) | 19 (5.7%) | 110 (32.9%) | 66 (19.8%) | 129 (38.6%) | 3.85 |
| 1 | 5 (0.5%) | 45 (4.2%) | 115 (10.8%) | 469 (43.9%) | 189 (17.7%) | 245 (22.9%) | 3.43 |
| 3 | 2 (0.5%) | 76 (18.1%) | 84 (20.0%) | 197 (46.8%) | 32 (7.6%) | 30 (7.1%) | 2.64 |
| 2 | 46 (1.1%) | 916 (21.6%) | 1,017 (24.0%) | 1,816 (42.8%) | 336 (7.9%) | 114 (2.7%) | 2.43 |
| 5 | 27 (4.9%) | 236 (42.7%) | 148 (26.8%) | 131 (23.7%) | 8 (1.4%) | 3 (0.5%) | 1.76 |
| 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 |
| --- | --- | --- | --- |
| 1\*a | 190 (36.1%) | 298 (56.7%) | 38 (7.2%) |
| 4 | 75 (40.5%) | 103 (55.7%) | 7 (3.8%) |
| 3 | 139 (57.4%) | 81 (33.5%) | 22 (9.1%) |
| 2 | 1,331 (65.7%) | 554 (27.4%) | 140 (6.9%) |
| 5 | 152 (72.0%) | 35 (16.6%) | 24 (11.4%) |
| 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 | | | |