

# 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 <sup>a</sup>	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

<sup>a</sup>0=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 <sup>a</sup>	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%)

<sup>a</sup>The chi-squared p-value is 0

<sup>a</sup>0=public/government, 1=private, 2=other