Economic Clustering Summary Report: Kenya 2022

# Data Summary

**Country Code-year:** KE22

**Number of observations:** 37838

**Number of variables used:** 27

**Variable set used:** 1

**Variables used in the algorithm:** hv201b, hv206, hv207, hv208, hv210, hv211, hv227, hv237, hv243b, hv244, hv246, hv247, hv263, sh131a, sh132g, sh132h, sh132i, sh132j, sh132l, sh132m, sh132o, water, toilet, floor, roof, cookfuel, wall

# Top 10 Variable Sets (Sorted by ASW)

| Set | ASW | Var.1 | Var.2 | Var.3 | Var.4 |
| --- | --- | --- | --- | --- | --- |
| 1 | 0.9268 | has television | mobile phone used financial transactions | household has a dvd player | roof |
| 2 | 0.9097 | household has a table | household has a clock | household has a dvd player | roof |
| 3 | 0.9093 | household has a table | household has a chair | household has a clock | roof |
| 4 | 0.9068 | mobile phone used financial transactions | household has a clock | household has a dvd player | roof |
| 5 | 0.9055 | has television | mobile phone used financial transactions | household has a clock | roof |
| 6 | 0.9054 | household has a table | household has a chair | household has a dvd player | roof |
| 7 | 0.9052 | mobile phone used financial transactions | household has a sofa | household has a dvd player | roof |
| 8 | 0.9052 | has motorcycle/scooter | mobile phone used financial transactions | household has a dvd player | roof |
| 9 | 0.9049 | mobile phone used financial transactions | household has a table | household has a clock | roof |
| 10 | 0.9048 | mobile phone used financial transactions | household has a table | household has a dvd player | roof |

# Marginal Distributions

| Variable | Description | % in Top Sets | Distribution |
| --- | --- | --- | --- |
| hv208 | has television | 20% | Binary, 44.1% (1/yes) |
| sh132h | household has a table | 50% | Binary, 80.8% (1/yes) |
| hv263 | mobile phone used financial transactions | 70% | Binary, 89.5% (1/yes) |
| hv211 | has motorcycle/scooter | 10% | Binary, 13.7% (1/yes) |
| sh132m | household has a clock | 50% | Binary, 12.4% (1/yes) |
| sh132i | household has a chair | 20% | Binary, 83.3% (1/yes) |
| sh132j | household has a sofa | 10% | Binary, 55.5% (1/yes) |
| sh132o | household has a dvd player | 70% | Binary, 12.5% (1/yes) |
| roof | roof | 100% | Categorical, 0 (finished) = 90.4%,   1 (natural) = 7.6%,   2 (other) = 0.7%,   3 (rudimentary) = 1.2% |

# Cluster Configuration (Set #1)

| Cluster Group | has television | mobile phone used financial transactions | household has a dvd player | roof | Proportion (%) |
| --- | --- | --- | --- | --- | --- |
| 1 | 0 | 1 | 0 | natural | 4.70 |
| 1 | 0 | 1 | 1 | natural |  |
| 2 | 0 | 0 | 0 | finished | 9.42 |
| 2 | 0 | 0 | 0 | natural |  |
| 2 | 0 | 0 | 0 | other |  |
| 2 | 0 | 0 | 0 | rudimentary |  |
| 2 | 0 | 0 | 1 | finished |  |
| 2 | 0 | 0 | 1 | natural |  |
| 3 | 0 | 1 | 0 | NA | 41.80 |
| 3 | 0 | 1 | 0 | finished |  |
| 3 | 0 | 1 | 0 | other |  |
| 3 | 0 | 1 | 0 | rudimentary |  |
| 3 | 0 | 1 | 1 | finished |  |
| 3 | 0 | 1 | 1 | other |  |
| 3 | 0 | 1 | 1 | rudimentary |  |
| 4 | 1 | 0 | 0 | finished | 32.28 |
| 4 | 1 | 0 | 0 | natural |  |
| 4 | 1 | 0 | 0 | other |  |
| 4 | 1 | 0 | 0 | rudimentary |  |
| 4 | 1 | 1 | 0 | finished |  |
| 4 | 1 | 1 | 0 | natural |  |
| 4 | 1 | 1 | 0 | other |  |
| 4 | 1 | 1 | 0 | rudimentary |  |
| 5 | 1 | 0 | 1 | finished | 11.81 |
| 5 | 1 | 0 | 1 | rudimentary |  |
| 5 | 1 | 1 | 1 | finished |  |
| 5 | 1 | 1 | 1 | natural |  |
| 5 | 1 | 1 | 1 | other |  |
| 5 | 1 | 1 | 1 | rudimentary |  |

# Validation Tables

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

| Cluster ID/Children Deceased | 0% | 1-33% | 34-66% | 67+% |
| --- | --- | --- | --- | --- |
| 5\* | 4,053 (92.0%) | 259 (5.9%) | 71 (1.6%) | 23 (0.5%) |
| 4 | 10,399 (91.3%) | 755 (6.6%) | 172 (1.5%) | 59 (0.5%) |
| 3 | 11,090 (88.4%) | 1,146 (9.1%) | 233 (1.9%) | 73 (0.6%) |
| 1 | 1,400 (86.3%) | 189 (11.7%) | 22 (1.4%) | 11 (0.7%) |
| 2 | 1,841 (85.7%) | 249 (11.6%) | 49 (2.3%) | 10 (0.5%) |
| Total | 28,783 (89.7%) | 2,598 (8.1%) | 547 (1.7%) | 176 (0.5%) |
| \*The chi-squared p-value is 0 | | | | |

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

| Cluster ID/Children Deceased | 0% | >0% |
| --- | --- | --- |
| 5\* | 4,053 (92.0%) | 353 (8.0%) |
| 4 | 10,399 (91.3%) | 986 (8.7%) |
| 3 | 11,090 (88.4%) | 1,452 (11.6%) |
| 1 | 1,400 (86.3%) | 222 (13.7%) |
| 2 | 1,841 (85.7%) | 308 (14.3%) |
| Total | 28,783 (89.7%) | 3,321 (10.3%) |
| \*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. |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 5\*a | 35 (0.8%) | 328 (7.4%) | 665 (15.1%) | 811 (18.4%) | 1,116 (25.3%) | 1,451 (32.9%) | 3.59 |
| 4 | 435 (3.8%) | 1,582 (13.9%) | 2,284 (20.1%) | 2,273 (20.0%) | 2,533 (22.2%) | 2,278 (20.0%) | 3.03 |
| 3 | 1,403 (11.2%) | 2,935 (23.4%) | 2,697 (21.5%) | 2,552 (20.3%) | 1,852 (14.8%) | 1,103 (8.8%) | 2.30 |
| 2 | 1,104 (51.4%) | 527 (24.5%) | 231 (10.7%) | 188 (8.7%) | 83 (3.9%) | 16 (0.7%) | 0.91 |
| 1 | 856 (52.8%) | 392 (24.2%) | 157 (9.7%) | 129 (8.0%) | 71 (4.4%) | 17 (1.0%) | 0.90 |
| Total | 3,833 (11.9%) | 5,764 (18.0%) | 6,034 (18.8%) | 5,953 (18.5%) | 5,655 (17.6%) | 4,865 (15.2%) | 2.57 |
| \*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 |
| --- | --- | --- | --- |
| 5\*a | 1,034 (53.9%) | 814 (42.4%) | 72 (3.8%) |
| 4 | 3,094 (64.3%) | 1,506 (31.3%) | 211 (4.4%) |
| 3 | 3,412 (73.2%) | 1,041 (22.3%) | 208 (4.5%) |
| 2 | 266 (82.9%) | 41 (12.8%) | 14 (4.4%) |
| 1 | 207 (90.4%) | 18 (7.9%) | 4 (1.7%) |
| Total | 8,013 (67.1%) | 3,420 (28.6%) | 509 (4.3%) |
| \*The chi-squared p-value is 0 | | | |
| a0=public/government, 1=private, 2=other | | | |