Economic Clustering Summary Report: Cameroon 2018

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# Summary of Data

**Country Code-year:** CM18

**Number of observations:** 11710

**Number of clusters:** 5

**Number of variables used:** 32

**Distance used:** Hamming

**Variables used in the algorithm:** hv206, hv207, hv208, hv209, hv211, hv225, hv227, hv230b, hv232, hv232y, hv237, hv243a, hv243b, hv244, hv246, hv247, hv252, sh121h, sh121j, sh121k, sh121l, sh121m, sh121o, sh121s, sh122h, sh123a, water, toilet, floor, roof, cookfuel, wall

# Top Variable Groupings (Sorted by ASW)

| Group | ASW | Var. 1 | Var. 2 | Var. 3 | Var. 4 |
| --- | --- | --- | --- | --- | --- |
| 1 | 0.9476 | has television | has mobile telephone | mixer | cable |
| 2 | 0.9381 | has television | has mobile telephone | cable | laptop computer |
| 3 | 0.9319 | has electricity | has television | mixer | cable |
| 4 | 0.9301 | has television | mixer | cable | roof |
| 5 | 0.9245 | has electricity | has television | cable | laptop computer |
| 6 | 0.9222 | has electricity | has mobile telephone | mixer | cable |
| 7 | 0.9217 | has television | has mobile telephone | has bank account | cable |
| 8 | 0.9202 | has television | cable | laptop computer | roof |
| 9 | 0.9184 | has electricity | has television | has mobile telephone | cable |
| 10 | 0.9183 | has television | has refrigerator | has mobile telephone | cable |

# Marginal Distributions

| Variable | Description | % Time in Top Clusters | Distribution |
| --- | --- | --- | --- |
| hv208 | has television | 90% | Binary, 52% 1s (or yes) |
| hv206 | has electricity | 40% | Binary, 64% 1s (or yes) |
| hv243a | has mobile telephone | 60% | Binary, 85.6% 1s (or yes) |
| sh121m | mixer | 40% | Binary, 12.7% 1s (or yes) |
| sh121o | cable | 100% | Binary, 38.3% 1s (or yes) |
| hv209 | has refrigerator | 10% | Binary, 22.3% 1s (or yes) |
| hv247 | has bank account | 10% | Binary, 16.3% 1s (or yes) |
| sh122h | laptop computer | 30% | Binary, 12.3% 1s (or yes) |
| roof | roof | 20% | Categorical, 0 (finished) = 84.1%,   1 (natural) = 13.1%,   2 (other) = 0%,   3 (rudimentary) = 2.8% |

# Cluster #1 Configuration

| Cluster Group | has television | has mobile telephone | cable | laptop computer | Proportion (%) |
| --- | --- | --- | --- | --- | --- |
| 1 | 0 | 1 | 1 | 1 | 9.99 |
| 1 | 1 | 0 | 1 | 1 |  |
| 1 | 1 | 1 | 1 | 1 |  |
| 2 | 0 | 1 | 0 | 0 | 35.65 |
| 2 | 0 | 1 | 0 | 1 |  |
| 2 | 0 | 1 | 1 | 0 |  |
| 3 | 1 | 0 | 0 | 0 | 13.97 |
| 3 | 1 | 0 | 0 | 1 |  |
| 3 | 1 | 1 | 0 | 0 |  |
| 3 | 1 | 1 | 0 | 1 |  |
| 4 | 1 | 0 | 1 | 0 | 28.06 |
| 4 | 1 | 1 | 1 | 0 |  |
| 5 | 0 | 0 | 0 | 0 | 12.32 |
| 5 | 0 | 0 | 0 | 1 |  |

# Validation Tables

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

| Cluster ID/Children Deceased | 0% | 1-33% | 34-66% | 67+% |
| --- | --- | --- | --- | --- |
| 1\* | 1,638 (89.8%) | 119 (6.5%) | 55 (3.0%) | 12 (0.7%) |
| 2 | 3,364 (85.9%) | 386 (9.9%) | 132 (3.4%) | 34 (0.9%) |
| 5 | 1,833 (80.3%) | 321 (14.1%) | 105 (4.6%) | 25 (1.1%) |
| 3 | 3,966 (75.0%) | 954 (18.1%) | 288 (5.4%) | 77 (1.5%) |
| 4 | 926 (67.7%) | 261 (19.1%) | 135 (9.9%) | 46 (3.4%) |
| Total | 11,727 (79.9%) | 2,041 (13.9%) | 715 (4.9%) | 194 (1.3%) |
| \*The chi-squared p-value is 0 | | | | |

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

| Cluster ID/Children Deceased | 0% | >0% |
| --- | --- | --- |
| 1\* | 1,638 (89.8%) | 186 (10.2%) |
| 2 | 3,364 (85.9%) | 552 (14.1%) |
| 5 | 1,833 (80.3%) | 451 (19.7%) |
| 3 | 3,966 (75.0%) | 1,319 (25.0%) |
| 4 | 926 (67.7%) | 442 (32.3%) |
| Total | 11,727 (79.9%) | 2,950 (20.1%) |
| \*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. |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 1\*a | 48 (2.6%) | 69 (3.8%) | 134 (7.3%) | 969 (53.1%) | 177 (9.7%) | 427 (23.4%) | 3.34 |
| 2 | 243 (6.2%) | 332 (8.5%) | 592 (15.1%) | 2,124 (54.2%) | 251 (6.4%) | 374 (9.6%) | 2.75 |
| 5 | 273 (12.0%) | 338 (14.8%) | 393 (17.2%) | 1,124 (49.2%) | 60 (2.6%) | 96 (4.2%) | 2.28 |
| 3 | 1,603 (30.3%) | 1,051 (19.9%) | 880 (16.7%) | 1,594 (30.2%) | 62 (1.2%) | 95 (1.8%) | 1.57 |
| 4 | 600 (43.9%) | 349 (25.5%) | 163 (11.9%) | 251 (18.3%) | 3 (0.2%) | 2 (0.1%) | 1.06 |
| Total | 2,767 (18.9%) | 2,139 (14.6%) | 2,162 (14.7%) | 6,062 (41.3%) | 553 (3.8%) | 994 (6.8%) | 2.17 |
| \*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 | 113 (29.2%) | 263 (68.0%) | 11 (2.8%) |
| 2 | 262 (34.8%) | 483 (64.2%) | 7 (0.9%) |
| 5 | 138 (37.2%) | 228 (61.5%) | 5 (1.3%) |
| 4 | 44 (39.3%) | 66 (58.9%) | 2 (1.8%) |
| 3 | 247 (40.9%) | 354 (58.6%) | 3 (0.5%) |
| Total | 804 (36.1%) | 1,394 (62.6%) | 28 (1.3%) |
| \*The chi-squared p-value is 0.0015 | | | |
| a0=public/government, 1=private, 2=other | | | |