Economic Clustering Summary Report: Burkina Faso 2017-18

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# Summary of Data

**Country Code-year:** BF1718

**Number of observations:** 6259

**Number of clusters:** 5

**Number of variables used:** 23

**Distance used:** Hamming

**Variables used in the algorithm:** hv206, hv207, hv208, hv209, hv210, hv211, hv227, hv243a, hv243b, hv243c, hv244, hv246, hv247, sh114g, sh114h, sh114i, sh114k, 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 electricity | has television | has refrigerator/freezer | has mobile telephone |
| 2 | 0.9414 | has electricity | has refrigerator/freezer | has motorcycle/scooter | has mobile telephone |
| 3 | 0.9383 | has electricity | has television | has mobile telephone | has closet/cabinet to keep books |
| 4 | 0.933 | has television | has refrigerator/freezer | has mobile telephone | has closet/cabinet to keep books |
| 5 | 0.9312 | has electricity | has refrigerator/freezer | has mobile telephone | has closet/cabinet to keep books |
| 6 | 0.9311 | has television | has mobile telephone | has closet/cabinet to keep books | has stove/cooker |
| 7 | 0.9301 | has electricity | has motorcycle/scooter | has mobile telephone | has closet/cabinet to keep books |
| 8 | 0.9301 | has motorcycle/scooter | has mobile telephone | has closet/cabinet to keep books | has stove/cooker |
| 9 | 0.9293 | has television | has refrigerator/freezer | has motorcycle/scooter | has mobile telephone |
| 10 | 0.9285 | has refrigerator/freezer | has motorcycle/scooter | has mobile telephone | has stove/cooker |

# Marginal Distributions

| Variable | Description | % Time in Top Clusters | Distribution |
| --- | --- | --- | --- |
| hv206 | has electricity | 50% | Binary, 14.3% 1s (or yes) |
| hv208 | has television | 50% | Binary, 23.2% 1s (or yes) |
| hv211 | has motorcycle/scooter | 50% | Binary, 57.7% 1s (or yes) |
| hv209 | has refrigerator/freezer | 60% | Binary, 5.2% 1s (or yes) |
| hv243a | has mobile telephone | 100% | Binary, 93.5% 1s (or yes) |
| sh114h | has closet/cabinet to keep books | 60% | Binary, 7.2% 1s (or yes) |
| sh114i | has stove/cooker | 30% | Binary, 11.6% 1s (or yes) |

# Cluster #1 Configuration

| Cluster Group | has electricity | has television | has refrigerator/freezer | has mobile telephone | Proportion (%) |
| --- | --- | --- | --- | --- | --- |
| 1 | 0 | 1 | 1 | 1 | 4.81 |
| 1 | 1 | 1 | 1 | 1 |  |
| 2 | 1 | 1 | 0 | 1 | 8.28 |
| 3 | 0 | 0 | 0 | 1 | 70.38 |
| 3 | 0 | 0 | 1 | 1 |  |
| 3 | 1 | 0 | 0 | 1 |  |
| 3 | 1 | 0 | 1 | 1 |  |
| 4 | 0 | 0 | 0 | 0 | 6.37 |
| 4 | 0 | 0 | 1 | 0 |  |
| 4 | 1 | 0 | 1 | 0 |  |
| 5 | 0 | 1 | 0 | 0 | 10.16 |
| 5 | 0 | 1 | 0 | 1 |  |
| 5 | 1 | 1 | 0 | 0 |  |

# Validation Tables

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

| Cluster ID/Children Deceased | 0% | 1-33% | 34-66% | 67+% |
| --- | --- | --- | --- | --- |
| 1\* | 400 (92.0%) | 24 (5.5%) | 10 (2.3%) | 1 (0.2%) |
| 3 | 521 (87.7%) | 48 (8.1%) | 19 (3.2%) | 6 (1.0%) |
| 4 | 707 (77.5%) | 140 (15.4%) | 58 (6.4%) | 7 (0.8%) |
| 5 | 4,027 (75.1%) | 980 (18.3%) | 310 (5.8%) | 44 (0.8%) |
| 2 | 203 (62.3%) | 80 (24.5%) | 39 (12.0%) | 4 (1.2%) |
| Total | 5,858 (76.8%) | 1,272 (16.7%) | 436 (5.7%) | 62 (0.8%) |
| \*The chi-squared p-value is 0 | | | | |

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

| Cluster ID/Children Deceased | 0% | >0% |
| --- | --- | --- |
| 1\* | 400 (92.0%) | 35 (8.0%) |
| 3 | 521 (87.7%) | 73 (12.3%) |
| 4 | 707 (77.5%) | 205 (22.5%) |
| 5 | 4,027 (75.1%) | 1,334 (24.9%) |
| 2 | 203 (62.3%) | 123 (37.7%) |
| Total | 5,858 (76.8%) | 1,770 (23.2%) |
| \*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 | 107 (24.6%) | 40 (9.2%) | 28 (6.4%) | 178 (40.9%) | 26 (6.0%) | 56 (12.9%) | 2.33 |
| 3 | 203 (34.2%) | 79 (13.3%) | 32 (5.4%) | 230 (38.7%) | 28 (4.7%) | 22 (3.7%) | 1.78 |
| 4 | 518 (56.8%) | 108 (11.8%) | 55 (6.0%) | 223 (24.5%) | 2 (0.2%) | 6 (0.7%) | 1.01 |
| 5 | 3,926 (73.2%) | 505 (9.4%) | 148 (2.8%) | 758 (14.1%) | 19 (0.4%) | 5 (0.1%) | 0.59 |
| 2 | 259 (79.4%) | 31 (9.5%) | 7 (2.1%) | 28 (8.6%) | 1 (0.3%) | 0 (0.0%) | 0.41 |
| Total | 5,013 (65.7%) | 763 (10.0%) | 270 (3.5%) | 1,417 (18.6%) | 76 (1.0%) | 89 (1.2%) | 0.83 |
| \*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])