Economic Clustering Summary Report: Burkina Faso 2021

# Data Summary

**Country Code-year:** BF21

**Number of observations:** 13248

**Number of variables used:** 23

**Variable set used:** 1

**Variables used in the algorithm:** hv201b, hv206, hv207, hv208, hv210, hv211, hv227, hv243c, hv244, hv246, hv247, hv263, sh132g, sh132h, sh132j, sh132k, sh133g, water, toilet, floor, roof, cookfuel, wall

# Top 10 Variable Sets (Sorted by ASW)

| Set | ASW | Var.1 | Var.2 | Var.3 | Var.4 |
| --- | --- | --- | --- | --- | --- |
| 1 | 0.8959 | has television | wardrobe / bookcase | floor | roof |
| 2 | 0.8916 | has electricity | wardrobe / bookcase | floor | roof |
| 3 | 0.881 | has bank account | wardrobe / bookcase | floor | roof |
| 4 | 0.8785 | has motorcycle/scooter | wardrobe / bookcase | floor | roof |
| 5 | 0.8743 | mobile phone used financial transactions | wardrobe / bookcase | floor | roof |
| 6 | 0.872 | has television | has mosquito bed net for sleeping | wardrobe / bookcase | roof |
| 7 | 0.8714 | has mosquito bed net for sleeping | wardrobe / bookcase | floor | roof |
| 8 | 0.871 | has electricity | has television | wardrobe / bookcase | floor |
| 9 | 0.8703 | wardrobe / bookcase | plow | floor | roof |
| 10 | 0.8697 | has electricity | has mosquito bed net for sleeping | wardrobe / bookcase | roof |

# Marginal Distributions

| Variable | Description | % in Top Sets | Distribution |
| --- | --- | --- | --- |
| hv208 | has television | 30% | Binary, 34% (1/yes) |
| hv206 | has electricity | 30% | Binary, 23.6% (1/yes) |
| hv247 | has bank account | 10% | Binary, 24.6% (1/yes) |
| hv211 | has motorcycle/scooter | 10% | Binary, 63.2% (1/yes) |
| hv263 | mobile phone used financial transactions | 10% | Binary, 63% (1/yes) |
| hv227 | has mosquito bed net for sleeping | 30% | Binary, 85% (1/yes) |
| sh132h | wardrobe / bookcase | 100% | Binary, 10% (1/yes) |
| sh133g | plow | 10% | Binary, 30.7% (1/yes) |
| floor | floor | 80% | Categorical, 0 (finished) = 78.6%,   1 (natural) = 21.3%,   2 (other) = 0.1%,   3 (rudimentary) = 0% |
| roof | roof | 90% | Categorical, 0 (finished) = 92%,   1 (natural) = 6.1%,   2 (other) = 0.2%,   3 (rudimentary) = 1.7% |

# Cluster Configuration (Set #1)

| Cluster Group | has television | wardrobe / bookcase | floor | roof | Proportion (%) |
| --- | --- | --- | --- | --- | --- |
| 1 | 0 | 0 | natural | natural | 5.04 |
| 1 | 0 | 0 | other | natural |  |
| 1 | 0 | 0 | rudimentary | natural |  |
| 1 | 0 | 1 | natural | natural |  |
| 1 | 1 | 0 | natural | natural |  |
| 2 | 1 | 1 | finished | finished | 9.15 |
| 2 | 1 | 1 | finished | natural |  |
| 2 | 1 | 1 | finished | other |  |
| 2 | 1 | 1 | finished | rudimentary |  |
| 2 | 1 | 1 | natural | finished |  |
| 2 | 1 | 1 | rudimentary | finished |  |
| 3 | 1 | 0 | finished | finished | 24.68 |
| 3 | 1 | 0 | finished | natural |  |
| 3 | 1 | 0 | finished | other |  |
| 3 | 1 | 0 | finished | rudimentary |  |
| 3 | 1 | 0 | natural | finished |  |
| 3 | 1 | 0 | natural | rudimentary |  |
| 3 | 1 | 0 | other | finished |  |
| 4 | 0 | 0 | finished | finished | 46.56 |
| 4 | 0 | 0 | finished | natural |  |
| 4 | 0 | 0 | finished | other |  |
| 4 | 0 | 0 | finished | rudimentary |  |
| 4 | 0 | 0 | other | finished |  |
| 4 | 0 | 0 | other | other |  |
| 4 | 0 | 0 | rudimentary | finished |  |
| 4 | 0 | 1 | finished | finished |  |
| 4 | 0 | 1 | finished | natural |  |
| 4 | 0 | 1 | finished | other |  |
| 4 | 0 | 1 | finished | rudimentary |  |
| 5 | 0 | 0 | natural | finished | 14.57 |
| 5 | 0 | 0 | natural | other |  |
| 5 | 0 | 0 | natural | rudimentary |  |
| 5 | 0 | 1 | natural | finished |  |
| 5 | 0 | 1 | natural | rudimentary |  |

# Validation Tables

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

| Cluster ID/Children Deceased | 0% | 1-33% | 34-66% | 67+% |
| --- | --- | --- | --- | --- |
| 2\* | 1,631 (93.2%) | 87 (5.0%) | 26 (1.5%) | 6 (0.3%) |
| 3 | 4,036 (88.1%) | 425 (9.3%) | 101 (2.2%) | 18 (0.4%) |
| 4 | 6,502 (82.2%) | 1,090 (13.8%) | 278 (3.5%) | 38 (0.5%) |
| 5 | 1,991 (78.0%) | 409 (16.0%) | 132 (5.2%) | 20 (0.8%) |
| 1 | 675 (77.9%) | 145 (16.7%) | 43 (5.0%) | 4 (0.5%) |
| Total | 14,835 (84.0%) | 2,156 (12.2%) | 580 (3.3%) | 86 (0.5%) |
| \*The chi-squared p-value is 0 | | | | |

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

| Cluster ID/Children Deceased | 0% | >0% |
| --- | --- | --- |
| 2\* | 1,631 (93.2%) | 119 (6.8%) |
| 3 | 4,036 (88.1%) | 544 (11.9%) |
| 4 | 6,502 (82.2%) | 1,406 (17.8%) |
| 5 | 1,991 (78.0%) | 561 (22.0%) |
| 1 | 675 (77.9%) | 192 (22.1%) |
| Total | 14,835 (84.0%) | 2,822 (16.0%) |
| \*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\*a | 380 (21.7%) | 144 (8.2%) | 165 (9.4%) | 739 (42.2%) | 155 (8.9%) | 167 (9.5%) | 2.37 |
| 3 | 2,183 (47.7%) | 369 (8.1%) | 387 (8.4%) | 1,322 (28.9%) | 203 (4.4%) | 116 (2.5%) | 1.42 |
| 4 | 5,087 (64.3%) | 576 (7.3%) | 488 (6.2%) | 1,580 (20.0%) | 122 (1.5%) | 55 (0.7%) | 0.89 |
| 5 | 1,865 (73.1%) | 186 (7.3%) | 139 (5.4%) | 339 (13.3%) | 19 (0.7%) | 4 (0.2%) | 0.62 |
| 1 | 738 (85.1%) | 39 (4.5%) | 22 (2.5%) | 67 (7.7%) | 1 (0.1%) | 0 (0.0%) | 0.33 |
| Total | 10,253 (58.1%) | 1,314 (7.4%) | 1,201 (6.8%) | 4,047 (22.9%) | 500 (2.8%) | 342 (1.9%) | 1.11 |
| \*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 |
| --- | --- | --- | --- |
| 2\*a | 429 (72.7%) | 47 (8.0%) | 114 (19.3%) |
| 3 | 1,274 (84.5%) | 36 (2.4%) | 197 (13.1%) |
| 4 | 1,928 (89.0%) | 20 (0.9%) | 218 (10.1%) |
| 5 | 557 (90.3%) | 5 (0.8%) | 55 (8.9%) |
| 1 | 167 (96.5%) | 0 (0.0%) | 6 (3.5%) |
| Total | 4,355 (86.2%) | 108 (2.1%) | 590 (11.7%) |
| \*The chi-squared p-value is 0 | | | |
| a0=public/government, 1=private, 2=other | | | |