

# 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	24.68
3	1	0	finished	finished	
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	46.56
4	0	0	finished	finished	
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	

Cluster Group	has television	wardrobe / bookcase	floor	roof	Proportion (%)
4	0	0	rudimentary	finished	14.57
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	
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 <sup>a</sup>	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

<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>	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%)

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

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