

# Economic Clustering Summary Report: Uganda 2016

## Data Summary

**Country Code-year:** UG16

**Number of observations:** 19519

**Number of variables used:** 29

**Variable set used:** 8

**Variables used in the algorithm:** hv206, hv207, hv208, hv210, hv211, hv225, hv227, hv237, hv243a, hv243b, hv244, hv246, hv247, sh120a, sh121g, sh121h, sh121i, sh121j, sh121k, sh121l, sh121m, sh125, sh144b, water, toilet, floor, roof, cookfuel, wall

## Top 10 Variable Sets (Sorted by ASW)

Set	ASW	Var.1	Var.2	Var.3	Var.4
1	0.9252	has electricity	has television	has cassette/cd/dvd player	has bed
2	0.9247	has television	has cassette/cd/dvd player	has bed	dwelling sprayed in the past 6 months
3	0.9231	has electricity	has television	has cassette/cd/dvd player	dwelling sprayed in the past 6 months
4	0.9217	has electricity	has television	has mobile telephone	has cassette/cd/dvd player
5	0.9125	has television	has cassette/cd/dvd player	floor	roof
6	0.9107	has television	has mobile telephone	has bank account	has cassette/cd/dvd player
7	0.9081	has electricity	has television	has cassette/cd/dvd player	roof
8	0.9073	has electricity	has television	has bed	dwelling sprayed in the past 6 months
9	0.9068	has television	has cassette/cd/dvd player	has sofa set	has bed
10	0.9057	has electricity	has cassette/cd/dvd player	has bed	dwelling sprayed in the past 6 months

## Marginal Distributions

Variable	Description	% in Top Sets	Distribution
hv206	has electricity	60%	Binary, 26.2% (1/yes)
hv208	has television	90%	Binary, 14.7% (1/yes)
sh121g	has cassette/cd/dvd player	90%	Binary, 10.7% (1/yes)
hv243a	has mobile telephone	20%	Binary, 72% (1/yes)
sh121k	has bed	50%	Binary, 79.7% (1/yes)
floor	floor	10%	Categorical, 0 (37) = 0.1%, 1 (finished) = 33.3%, 2 (natural) = 65.8%, 3 (other) = 0.2%, 4 (rudimentary) = 0.6%
hv247	has bank account	10%	Binary, 46.5% (1/yes)
sh121j	has sofa set	10%	Binary, 23.4% (1/yes)
sh125	dwelling sprayed in the past 6 months	40%	Binary, 10.1% (1/yes)
roof	roof	20%	Categorical, 0 (finished) = 67.3%, 1 (natural) = 31.9%, 2 (other) = 0.1%, 3 (rudimentary) = 0.7%

## Cluster Configuration (Set #8)

Cluster Group	has electricity	has television	has bed	dwelling sprayed in the past 6 months	Proportion (%)
1	0	0	1	1	7.27
1	0	1	1	1	
2	1	0	1	0	11.42
2	1	0	1	1	
3	0	0	1	0	47.79
3	0	1	1	0	
4	1	1	0	0	13.45
4	1	1	0	1	
4	1	1	1	0	
4	1	1	1	1	
5	0	0	0	0	20.07
5	0	0	0	1	
5	0	1	0	0	
5	0	1	0	1	
5	1	0	0	0	
5	1	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+%
4*	2,620 (89.1%)	247 (8.4%)	51 (1.7%)	22 (0.7%)
2	1,684 (80.7%)	316 (15.1%)	66 (3.2%)	20 (1.0%)
1	1,187 (78.1%)	270 (17.8%)	49 (3.2%)	13 (0.9%)
3	6,605 (75.5%)	1,661 (19.0%)	397 (4.5%)	80 (0.9%)
5	2,301 (72.8%)	677 (21.4%)	150 (4.7%)	33 (1.0%)
Total	14,397 (78.0%)	3,171 (17.2%)	713 (3.9%)	168 (0.9%)

\*The chi-squared p-value is 0

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

Cluster ID/Children Deceased	0%	>0%
4*	2,620 (89.1%)	320 (10.9%)
2	1,684 (80.7%)	402 (19.3%)
1	1,187 (78.1%)	332 (21.9%)
3	6,605 (75.5%)	2,138 (24.5%)
5	2,301 (72.8%)	860 (27.2%)
Total	14,397 (78.0%)	4,052 (22.0%)

\*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.
4 <sup>a</sup>	63 (2.1%)	550 (18.7%)	329 (11.2%)	1,103 (37.5%)	168 (5.7%)	727 (24.7%)	3.00
2	151 (7.2%)	844 (40.5%)	298 (14.3%)	568 (27.2%)	23 (1.1%)	202 (9.7%)	2.04
3	935 (10.7%)	4,502 (51.5%)	1,273 (14.6%)	1,687 (19.3%)	48 (0.5%)	298 (3.4%)	1.58
1	118 (7.8%)	909 (59.8%)	190 (12.5%)	253 (16.7%)	7 (0.5%)	42 (2.8%)	1.50
5	803 (25.4%)	1,733 (54.8%)	242 (7.7%)	325 (10.3%)	7 (0.2%)	51 (1.6%)	1.10
Total	2,070 (11.2%)	8,538 (46.3%)	2,332 (12.6%)	3,936 (21.3%)	253 (1.4%)	1,320 (7.2%)	1.77

\*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
4 <sup>a</sup>	332 (37.9%)	536 (61.1%)	9 (1.0%)
2	369 (60.1%)	235 (38.3%)	10 (1.6%)
3	1,537 (65.9%)	785 (33.6%)	12 (0.5%)
5	404 (70.1%)	167 (29.0%)	5 (0.9%)
1	276 (71.3%)	101 (26.1%)	10 (2.6%)
Total	2,918 (60.9%)	1,824 (38.1%)	46 (1.0%)

\*The chi-squared p-value is 0

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