Economic Clustering Summary Report: Angola 2011

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# Summary of Data

**Country Code-year:** AO1516

**Number of observations:** 16109

**Number of clusters:** 5

**Number of variables used:** 24

**Distance used:** Hamming

**Variables used in the algorithm:** hv206, hv207, hv208, hv209, hv211, hv212, hv227, hv237, hv243a, hv243e, hv244, hv246, hv246b, hv246d, hv246f, hv246g, hv247, hv253, sh121g, water, floor, roof, cookfuel, wall

# Top Variable Groupings (Sorted by ASW)

| Group | ASW | Var. 1 | Var. 2 | Var. 3 | Var. 4 |
| --- | --- | --- | --- | --- | --- |
| 1 | 0.9633 | hv246 | hv246d | hv246f | has dwelling been sprayed against mosquitoes in last 12 months |
| 2 | 0.9631 | hv246 | hv246f | hv246g | has dwelling been sprayed against mosquitoes in last 12 months |
| 3 | 0.9629 | hv246 | hv246b | hv246f | has dwelling been sprayed against mosquitoes in last 12 months |
| 4 | 0.9626 | hv246 | hv246d | hv246g | has dwelling been sprayed against mosquitoes in last 12 months |
| 5 | 0.9626 | hv246 | hv246b | hv246g | has dwelling been sprayed against mosquitoes in last 12 months |
| 6 | 0.9626 | hv246 | hv246b | hv246d | has dwelling been sprayed against mosquitoes in last 12 months |
| 7 | 0.9603 | has mobile telephone | has a computer | has dwelling been sprayed against mosquitoes in last 12 months | has internet |
| 8 | 0.9602 | has a computer | hv246 | hv246g | has dwelling been sprayed against mosquitoes in last 12 months |
| 9 | 0.9596 | has car/truck | hv246 | hv246f | has dwelling been sprayed against mosquitoes in last 12 months |
| 10 | 0.959 | hv246 | hv246g | has dwelling been sprayed against mosquitoes in last 12 months | has internet |

# Marginal Distributions

| Variable | Description | % Time in Top Clusters | Distribution |
| --- | --- | --- | --- |
| hv246 | hv246 | 90% | Binary, 27.9% 1s (or yes) |
| hv243a | has mobile telephone | 10% | Binary, 56.5% 1s (or yes) |
| hv243e | has a computer | 20% | Binary, 9.3% 1s (or yes) |
| hv212 | has car/truck | 10% | Binary, 7.8% 1s (or yes) |
| hv246d | hv246d | 30% | Binary, 11.6% 1s (or yes) |
| hv246f | hv246f | 40% | Binary, 23.7% 1s (or yes) |
| hv246b | hv246b | 30% | Binary, 7.8% 1s (or yes) |
| hv246g | hv246g | 50% | Binary, 8.4% 1s (or yes) |
| hv253 | has dwelling been sprayed against mosquitoes in last 12 months | 100% | Categorical, 0 (0) = 97.1%,   1 (1) = 1.5%,   2 (8) = 1.5% |
| sh121g | has internet | 20% | Binary, 10.6% 1s (or yes) |

# Cluster #1 Configuration

| Cluster Group | hv246 | hv246d | hv246f | has dwelling been sprayed against mosquitoes in last 12 months | Proportion (%) |
| --- | --- | --- | --- | --- | --- |
| 1 | 0 | 0 | 0 | 1 | 1.09 |
| 1 | 1 | 0 | 0 | 1 |  |
| 2 | 1 | 0 | 1 | 0 | 14.51 |
| 2 | 1 | 0 | 1 | 1 |  |
| 2 | 1 | 0 | 1 | 8 |  |
| 3 | 1 | 1 | 1 | 0 | 9.21 |
| 3 | 1 | 1 | 1 | 1 |  |
| 3 | 1 | 1 | 1 | 8 |  |
| 4 | 1 | 1 | 0 | 0 | 2.37 |
| 4 | 1 | 1 | 0 | 1 |  |
| 4 | 1 | 1 | 0 | 8 |  |
| 5 | 0 | 0 | 0 | 0 | 72.82 |
| 5 | 0 | 0 | 0 | 8 |  |
| 5 | 1 | 0 | 0 | 0 |  |
| 5 | 1 | 0 | 0 | 8 |  |

# Validation Tables

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

| Cluster ID/Children Deceased | 0% | 1-33% | 34-66% | 67+% |
| --- | --- | --- | --- | --- |
| 5\* | 8,761 (85.2%) | 980 (9.5%) | 423 (4.1%) | 117 (1.1%) |
| 4 | 304 (78.8%) | 53 (13.7%) | 23 (6.0%) | 6 (1.6%) |
| 2 | 301 (76.6%) | 65 (16.5%) | 23 (5.9%) | 4 (1.0%) |
| 1 | 2,244 (76.4%) | 457 (15.6%) | 192 (6.5%) | 45 (1.5%) |
| 3 | 286 (75.1%) | 64 (16.8%) | 23 (6.0%) | 8 (2.1%) |
| Total | 11,896 (82.7%) | 1,619 (11.3%) | 684 (4.8%) | 180 (1.3%) |
| \*The chi-squared p-value is 0 | | | | |

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

| Cluster ID/Children Deceased | 0% | >0% |
| --- | --- | --- |
| 5\* | 8,761 (85.2%) | 1,520 (14.8%) |
| 4 | 304 (78.8%) | 82 (21.2%) |
| 2 | 301 (76.6%) | 92 (23.4%) |
| 1 | 2,244 (76.4%) | 694 (23.6%) |
| 3 | 286 (75.1%) | 95 (24.9%) |
| Total | 11,896 (82.7%) | 2,483 (17.3%) |
| \*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. |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 5\*a | 2,581 (25.1%) | 2,675 (26.0%) | 641 (6.2%) | 3,219 (31.3%) | 750 (7.3%) | 415 (4.0%) | 1.82 |
| 1 | 1,034 (35.2%) | 1,087 (37.0%) | 163 (5.5%) | 550 (18.7%) | 78 (2.7%) | 26 (0.9%) | 1.19 |
| 4 | 148 (38.3%) | 137 (35.5%) | 19 (4.9%) | 72 (18.7%) | 6 (1.6%) | 4 (1.0%) | 1.13 |
| 3 | 134 (35.2%) | 151 (39.6%) | 24 (6.3%) | 64 (16.8%) | 6 (1.6%) | 2 (0.5%) | 1.12 |
| 2 | 150 (38.2%) | 159 (40.5%) | 17 (4.3%) | 57 (14.5%) | 8 (2.0%) | 2 (0.5%) | 1.03 |
| Total | 4,047 (28.1%) | 4,209 (29.3%) | 864 (6.0%) | 3,962 (27.6%) | 848 (5.9%) | 449 (3.1%) | 1.63 |
| \*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 |
| --- | --- | --- | --- |
| 4\*a | 7 (41.2%) | 9 (52.9%) | 1 (5.9%) |
| 2 | 5 (41.7%) | 7 (58.3%) | 0 (0.0%) |
| 5 | 483 (42.6%) | 606 (53.4%) | 45 (4.0%) |
| 1 | 67 (44.1%) | 76 (50.0%) | 9 (5.9%) |
| 3 | 8 (61.5%) | 4 (30.8%) | 1 (7.7%) |
| Total | 570 (42.9%) | 702 (52.9%) | 56 (4.2%) |
| \*The chi-squared p-value is 0.766 | | | |
| a0=public/government, 1=private, 2=other | | | |