

**Table 2:** Predicted Poverty and Mean Consumption by Parish

| Incidence of food poverty  |            |       |         |       |                    |       |        |
|----------------------------|------------|-------|---------|-------|--------------------|-------|--------|
|                            | Imputation |       | JSLC    |       |                    |       | Result |
|                            | Poverty    | S.E.  | Poverty | S.E.  | Conf. Interval 95% |       |        |
| National                   |            |       |         |       |                    |       |        |
| Jamaica                    | 0.072      | 0.003 | 0.075   | 0.006 | 0.064              | 0.086 | Within |
| Parish                     |            |       |         |       |                    |       |        |
| Kingston                   | 0.111      | 0.011 | 0.102   | 0.040 | 0.023              | 0.182 | Within |
| St. Andrew                 | 0.059      | 0.006 | 0.058   | 0.011 | 0.036              | 0.080 | Within |
| St. Thomas                 | 0.152      | 0.016 | 0.140   | 0.031 | 0.079              | 0.202 | Within |
| Portland                   | 0.056      | 0.008 | 0.114   | 0.021 | 0.073              | 0.154 | Out    |
| St. Mary                   | 0.048      | 0.007 | 0.018   | 0.007 | 0.004              | 0.033 | Out    |
| St. Ann                    | 0.056      | 0.005 | 0.057   | 0.018 | 0.022              | 0.093 | Within |
| Trelawny                   | 0.063      | 0.010 | 0.045   | 0.014 | 0.019              | 0.072 | Within |
| St. James                  | 0.034      | 0.005 | 0.031   | 0.016 | 0.000              | 0.062 | Within |
| Hanover                    | 0.030      | 0.004 | 0.017   | 0.011 | 0.000              | 0.039 | Within |
| Westmoreland               | 0.064      | 0.007 | 0.078   | 0.031 | 0.017              | 0.139 | Within |
| St. Elizabeth              | 0.098      | 0.009 | 0.104   | 0.021 | 0.063              | 0.146 | Within |
| Manchester                 | 0.097      | 0.008 | 0.087   | 0.021 | 0.045              | 0.129 | Within |
| Clarendon                  | 0.087      | 0.007 | 0.070   | 0.015 | 0.041              | 0.099 | Within |
| St. Catherine              | 0.089      | 0.007 | 0.101   | 0.018 | 0.066              | 0.136 | Within |
|                            |            |       |         |       |                    |       |        |
| Incidence of total poverty |            |       |         |       |                    |       |        |
|                            | Imputation |       | JSLC    |       |                    |       | Result |
|                            | Poverty    | S.E.  | Poverty | S.E.  | Conf. Interval 95% |       |        |
| National                   |            |       |         |       |                    |       |        |
| Jamaica                    | 0.198      | 0.005 | 0.198   | 0.010 | 0.178              | 0.219 | Within |
| Parish                     |            |       |         |       |                    |       |        |
| Kingston                   | 0.302      | 0.017 | 0.286   | 0.091 | 0.106              | 0.466 | Within |
| St. Andrew                 | 0.183      | 0.009 | 0.177   | 0.024 | 0.129              | 0.225 | Within |
| St. Thomas                 | 0.325      | 0.020 | 0.325   | 0.042 | 0.244              | 0.407 | Within |
| Portland                   | 0.153      | 0.014 | 0.215   | 0.035 | 0.146              | 0.283 | Within |
| St. Mary                   | 0.148      | 0.012 | 0.094   | 0.024 | 0.048              | 0.141 | Out    |
| St. Ann                    | 0.158      | 0.009 | 0.184   | 0.026 | 0.134              | 0.235 | Within |
| Trelawny                   | 0.179      | 0.010 | 0.132   | 0.022 | 0.090              | 0.175 | Out    |
| St. James                  | 0.107      | 0.010 | 0.111   | 0.032 | 0.049              | 0.174 | Within |
| Hanover                    | 0.104      | 0.008 | 0.107   | 0.025 | 0.059              | 0.156 | Within |
| Westmoreland               | 0.167      | 0.011 | 0.189   | 0.050 | 0.090              | 0.287 | Within |
| St. Elizabeth              | 0.244      | 0.011 | 0.238   | 0.035 | 0.169              | 0.306 | Within |
| Manchester                 | 0.243      | 0.013 | 0.224   | 0.035 | 0.156              | 0.293 | Within |
| Clarendon                  | 0.238      | 0.010 | 0.193   | 0.025 | 0.145              | 0.242 | Within |
| St. Catherine              | 0.227      | 0.009 | 0.240   | 0.026 | 0.190              | 0.291 | Within |

**Table 2 cont'd:** Predicted poverty and mean consumption by parish

| Annual household consumption, per equivalent adult |            |         |          |         |                    |          |        |
|----------------------------------------------------|------------|---------|----------|---------|--------------------|----------|--------|
|                                                    | Imputation |         | JSLC     |         |                    |          | Result |
|                                                    | Average    | S.E.    | Average  | S.E.    | Conf. Interval 95% |          |        |
| National                                           |            |         |          |         |                    |          |        |
| Jamaica                                            | 334323.5   | 3549.9  | 329123.5 | 9001.8  | 314231.2           | 349612.8 | Within |
| Parish                                             |            |         |          |         |                    |          |        |
| Kingston                                           | 281597.8   | 7480.5  | 269150.4 | 26010.0 | 217404.2           | 319636.5 | Within |
| St. Andrew                                         | 413564.7   | 8614.8  | 479083.4 | 32774.7 | 398692.5           | 527513.6 | Within |
| St. Thomas                                         | 254468.8   | 7405.8  | 251157.9 | 27382.1 | 196933.9           | 304559.2 | Within |
| Portland                                           | 335228.0   | 8351.0  | 282964.0 | 20154.2 | 256189.0           | 335405.1 | Within |
| St. Mary                                           | 303082.1   | 6120.6  | 288909.4 | 10594.1 | 264535.2           | 306175.1 | Within |
| St. Ann                                            | 326494.6   | 7727.6  | 291338.7 | 15401.4 | 266570.5           | 327105.6 | Within |
| Trelawny                                           | 304043.1   | 6984.2  | 288791.1 | 28813.3 | 226181.2           | 339431.9 | Within |
| St. James                                          | 396925.0   | 15273.4 | 371982.3 | 28936.7 | 306395.6           | 420131.2 | Within |
| Hanover                                            | 308763.9   | 11480.6 | 352159.2 | 21039.0 | 305080.5           | 387774.2 | Within |
| Westmoreland                                       | 292167.9   | 5923.4  | 299205.5 | 20417.6 | 266038.0           | 346289.5 | Within |
| St. Elizabeth                                      | 262059.0   | 5308.3  | 236395.5 | 8705.9  | 221508.1           | 255726.7 | Out    |
| Manchester                                         | 271509.3   | 6801.5  | 280643.1 | 15919.1 | 237391.7           | 299961.9 | Within |
| Clarendon                                          | 272518.5   | 4729.9  | 269878.2 | 12372.4 | 249204.0           | 297833.5 | Within |
| St. Catherine                                      | 337511.0   | 5977.3  | 312678.9 | 15794.5 | 287525.4           | 349605.5 | Within |

Source: Estimates based on the JSIC 2012 and the PHC 2011.

Note: The Urban category includes KMA and Other Towns

A second evaluation criterion is the analysis of the coefficients of variation (CV) for predicted consumption, and the standard errors of poverty estimates at the community level. In this study, the CV indicates how scattered the consumption estimates are relative to their average value, and it is defined as the ratio between the standard error and the mean of consumption. As measures of statistical accuracy, as both the CV and standard errors tend to zero, the statistical confidence of the consumption and poverty estimates tend to improve. In the case of the CV, the regularity is that when its values are below 14% the estimates are considered statistically reliable. Figure 2 shows that the CV for more than 95% of the communities is below this threshold. In the case of the standard errors for poverty, the empirical regularity used

in the poverty mapping practice is that if they are lower than 10%, then the estimates are also regarded as statistically reliable. In the case of food poverty, there is only one community with a standard error above 10%, whereas for the total poverty indicator the number of communities with standard errors above this reliability threshold is 12 (Table 3). The estimates of consumption and poverty are, overall, statistically reliable. When the CV and standard errors are higher than the thresholds, this situation may occur due to the combination of at least two interconnected factors: 1) because the population of a community is small, usually less than 1 000 inhabitants; and 2) because the power of the variables used in that community to predict consumption was low.