## Enumeration Area Coverage:

This program updates the number of cases for each enumeration area code in the external file EA\_DICT. If the EA is not found in the external file the EA code is added to it with an "X” as the status flag.

At the start of each run the external file is initialized with the EACodes-initial.dat file which has all the EA codes from the area names file with status code set to N and cases set to 000. This file is created from the “Census 2016 Areanames.xlsx”. If the area names file changes make sure to copy the EA\_CODES column again into another sheet and recreate EACodes-initial.dat.

The excel file EAStatus.xlsx is set to refresh on file open with the new set of results. Make sure to select the EA\_DICT (.prn) file on opening the xls file to import to refresh the results after the run.

|  |  |
| --- | --- |
| Program Name | Coverage.bch |
| Program Folder |  |
| **Inputs** |  |
| Input Data Folder |  |
| Input Data File | Concatenated main data file |
| **Outputs** |  |
| Output Data Folder |  |
| Output Listing Folder | .\ |
| OutputData |  |
| <Listing File> | Listing (coverage .lst) has the information of the EAs that do not exist in the EA file |
| EA Status.xlsx | List of EAs with total cases and statuses. This file is refreshed only if the EA\_DICT file is imported. It is set up to open with EACodes.prn as the import file. |

## Sample summary table in EAStatus.xls

|  |  |  |
| --- | --- | --- |
| **EA** | **EA#** | **Households** |
| EAs with cases | 3822 | 292899 |
| Incomplete EAs | 1866 | 0 |
| Missing EAs | 348 | 19510 |
| Total | 6036 | 312409 |

## Remove blank persons at the end of the case:

This program removes blank person records at the end of the case.

|  |  |
| --- | --- |
| Program Name | RemoveBlankPersonRecs.bch |
| Program Folder |  |
| **Inputs** |  |
| Input Data Folder |  |
| Input Data File | Concatenated main data file |
| **Outputs** |  |
| Output Data Folder |  |
| Output Listing Folder | .\ |
| OutputData | The output data file with blank persons at the end of the case removed |
| <Listing File> | RemoveBlankPersonRecs.lst – This file is the input for BadCases Report |

## Bad Cases Report:

This program parses the listing from a listing report that is generated on running a batch file on the concatenated main data file. This listing report has errors, warning or user messages. The output from this program generates a semicolon delimited file which has the problem data filename, case id and reason. Run this program on the listing generated from RemoveBlankPersonRecs.bch

|  |  |
| --- | --- |
| Program Name | BadCasesReport.bch |
| Program Folder |  |
| **Inputs** |  |
| Input Data Folder |  |
| Input Data File | <none> |
| FILE\_MAINDATA\_LST | RemoveBlankPersonRecs.lst |
| **Outputs** |  |
| Output Data Folder |  |
| Output Listing Folder | .\ |
| OutputData | No output file |
| FILE\_OUTPUT | BadCasesReport.csv |
| <Listing File> | RemoveBlankPersonRecs.lst – This file is the input for BadCases Report |
| BadCasesReport.csv | Comma delimited file that reports problem cases |
| BadCasesReport.xlsx | This file is refreshed only if the BadCasesReport.csv file is imported. It is set up to open with BadCasesReport.csv as the import file. |

## Generate Area Names File:

Generate a CSPro Area Names .anm file from the **sorted** Area names excel file. Make sure that the Census 2016 Area names excel file is sorted by District and Constituency.

* Make sure you have the AreaNames.xlsm in the XLStart folder of your Microsoft Office installation location. For office 2010, this folder is located in *”C:\Program Files (x86)\Microsoft Office\Office14\XLSTART”*
* Open the Area names excel file and click on the Developer menu. (To enable Developer menu. Go to File->Options. Select “Customize Ribbon” on the left tree. Make sure you select the “Developer” check box on the right side. See Figure 1 in Appendix)
* On the tool bar select “Macros”
* In the Macros dialog (Figure 2) Choose “CreateAreaNamesOutput”
* The area name file generated from this macro will be in the same folder as the .xls file with the name as Lesotho.anm.

The area names files is required when using Area structure in tabulation. The area names file generated supports two levels District and Constituency.

## Tables – Sex and Average Household size by Area

Generates the table for Sex and Average Household Size by Area

|  |  |
| --- | --- |
| Program Name | LesothoTabs.xtb |
| Program Folder |  |
| **Inputs** |  |
| Input Data | Concatenated Main Data File |
| AreaNames File | .\Lesotho.anm |
| **Outputs** |  |
| Output Folder |  |
| Output Listing Folder |  |
| OutputTBW | LesothoTabs.xtb.tbw |
| <Listing File> | LesothoTabs.xtb.lst |