Manual for Manual for CBMS Statistics Simulator (StatSimSGE version 4.0)

Prepared by the
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User's Manual for CBMS Statistics Simulator
(StatSimSGE version 4.0)

I. Introduction

This manual contains guidelines and instructions on the use of the CBMS Statistics Simulator (StatSimSGE version 4.) designed and customized for the LGU partners of the CBMS Network Coordinating Team.

The StatSim is a MySQL application developed to simulate simple computations and tabulations usually done using statistical software or other tabulation applications and also to export indicators for use in dissemination such as tables and maps. Although this has the mentioned capability, this is not intended to replace the use of more sophisticated statistical software like SAS, Stata or SPSS.

A. System Configuration

It is required that the following system configuration should be met for better and faster processing:

- Pentium IV processor or equivalent
- 256MB of RAM
- SVGA monitor
- Mouse
- 80MB of free hard drive space
- Microsoft Windows 98, Me, NT 4.0, 2000, XP or 32-bit Vista
- Microsoft Office 2003

B. Installation

The step-by-step installation procedure below will update the existing CBMS encoding system in the computer. The installation is quick and simple.

Steps in installing the software:

1. Insert the installation CD provided by the CBMS Team in the computer's CD-ROM drive
2. The setup menu will automatically popup. If it does not, open windows explorer and double click the CD drive where the CD is located and run "**manage.exe**".
3. A welcome screen will appear. Click **"Next"**.
4. The setup will require the user to accept the agreement upon using the software. After agreeing on the terms, click **"Next"**.
5. A pop-up screen will appear asking for Customer Information, enter the name of the user as well as the company/office name. Click **"Next"**.
6. The user will be prompted to select a set-up type. Select Complete and Click **"Next"**.
7. Click Install to begin the Installation.
8. A pop-up screen will appear informing that the InstallShield Wizard has successfully installed CBMS StatSimSGE 4.0. Click "**Finish**".

II. General instructions

- Set-up and maintain a computer that will serve as your data repository. This computer should store all encoded text files and NRDB files.
- Before using the StatSim for processing and consolidating your data, check first for the accuracy and consistency of your text files.
- If needed, perform concatenation procedure (refer to Section III of the User's Manual for the Computerized Data Encoding System) to merge encoded household data from same barangays. This is crucial prior to the simulation process.

- Check the matching of households in the encoded data and digitized spot map using the Household Identification Number. **Complete matching of households for both datasets must be attained before processing to avoid repeating the steps.**
- The application will guide the user through the process through clicks and dialogs.

III. Preparing Encoded Data for StatSim Processing

A. CBMS Database Structure

By now, the encoders and processors are most likely familiar with the file structure of the CBMS Database. However, it must still be noted that the general file/folder structure of the CBMS Database is:

C:\CBMSDatabase\<Region>\<Province>\<Municipality>\<Barangay>

The folder structure was designed so that the encoded data are stored by barangay. Thus, each barangay folders contains the text (ASCII) file where the household data are stored. Recall that the folder names make use of the Philippine Standard Geographic Codes (PSGC). For instance, if the encoded data of interest is Brgy. Pila, San Pascual, Batangas, the target file will be:

C:\CBMSDatabase\04\10\26\019\041026019.hpq

The file path above refers to the folder containing the encoded data (**041026019.hpq**) of Barangay Pila (019), San Pascual (26) in Batangas (10) in Region IVA (04). The folder structure is the same in all computers used for encoding.

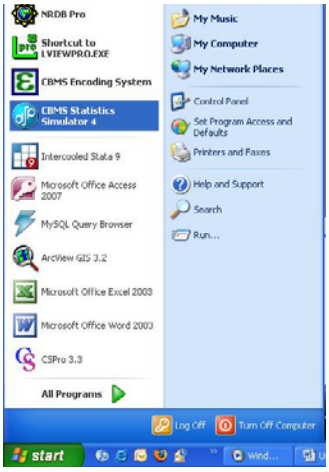
IV. Generating Indicators through the CBMS Statistics Simulator (StatSim)

A. Opening the StatSim

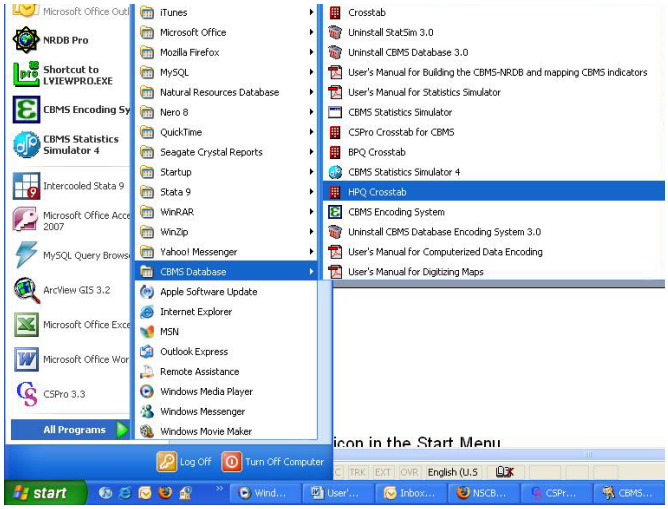
1. Starting the StatSim application

a. Click on the shortcut icon from the desktop

b. Click on the shortcut icon in the Start Menu



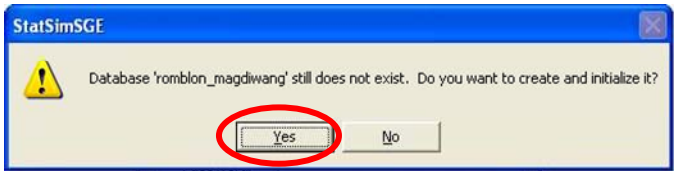
c. Click **Start**, click on **All Programs**, select **CBMS Database** and click on **CBMS Statistics Simulator**



2. Initializing the StatSim database

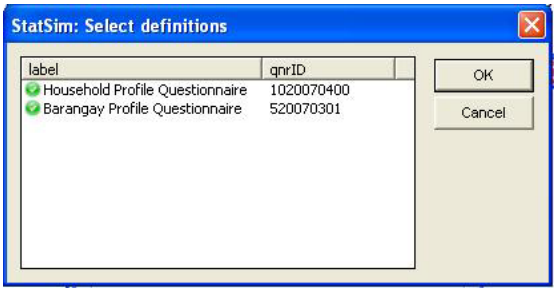
a. The Login window will appear. For the username, default is "**admin**". There is no password required. Change the database name according to the name of the province and municipality/city. Example: romblon_magdiwang. Click the button **OK**.

b. Another window will appear saying that the database still does not exist. Click **Yes** to create and initialize the database. Note: The next time the user will open StatSim, the database is already in the pulldown list.

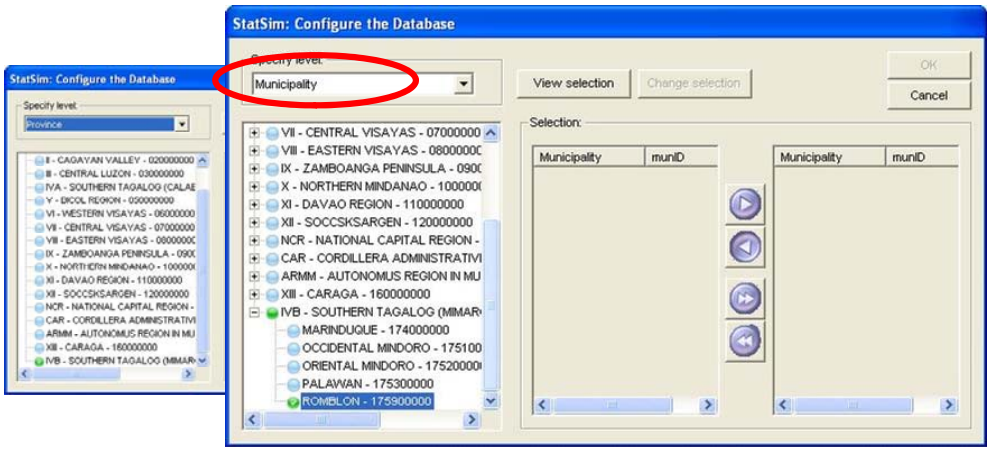


c. The Statsim is a menu and dialog driven application. Thus the user only has to click and select from among the options to proceed and generate the desired outputs. Statsim is also a customized application for a specific CBMS questionnaire version and local government unit (LGU) using the said questionnaire version, thus all information contained in questionnaire can be derived and processed for the LGU.

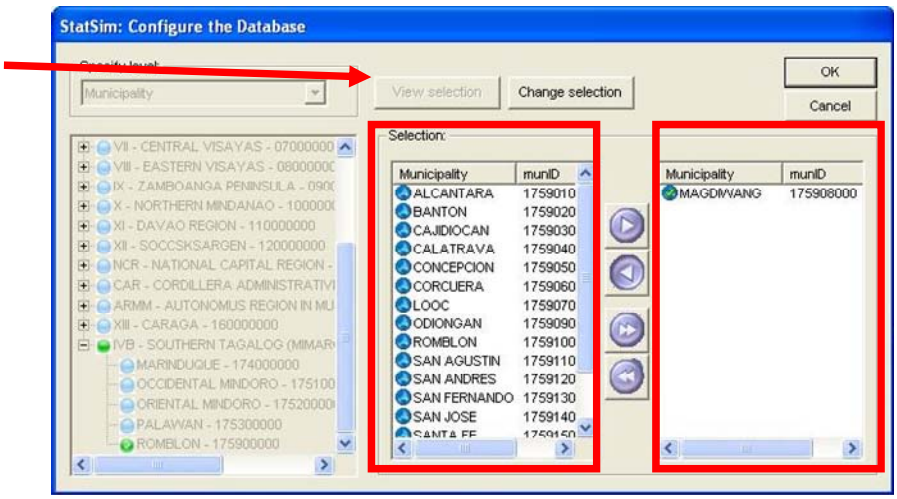
Each questionnaire is differentiated by the HPQ version number. For example, the latest version of the HPQ and BPQ are 10200704 and 5200703, respectively. Check both labels and Click **OK**.



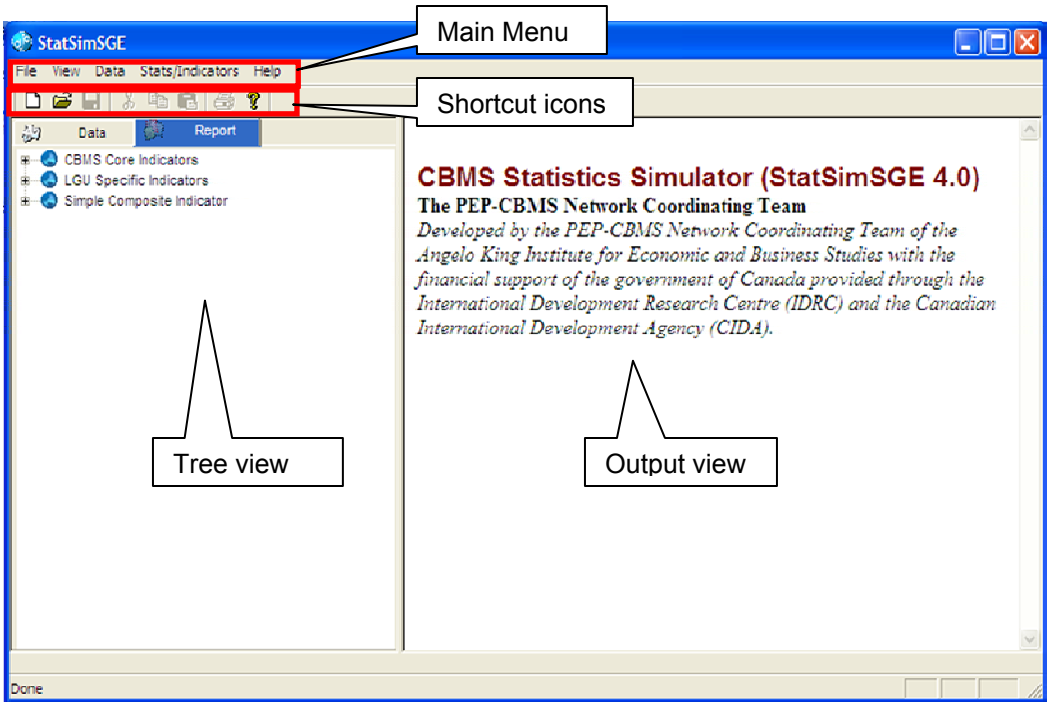
d. Configuring the database means specifying the level to be municipal, provincial or regional database. For this example, create a municipal database



e. Click the button **View selection.** From the listed municipalities, double click on the name of the municipality and Click **OK.** For this example, StatSim database for the municipality of Magdiwang in Romblon will be created.



The StatSim interface will now open



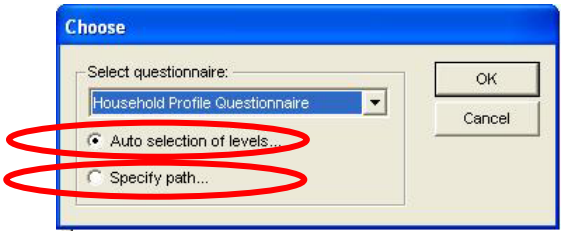
Note: When you are opening a configured database, you will not need to do the procedure discussed in (b) to (e).

B. Importing CBMS Data

This section will guide you through the process of importing your encoded data file into the StatSim. In the importing process, the StatSim transforms the encoded data into a database ready for further processing and tabulation.

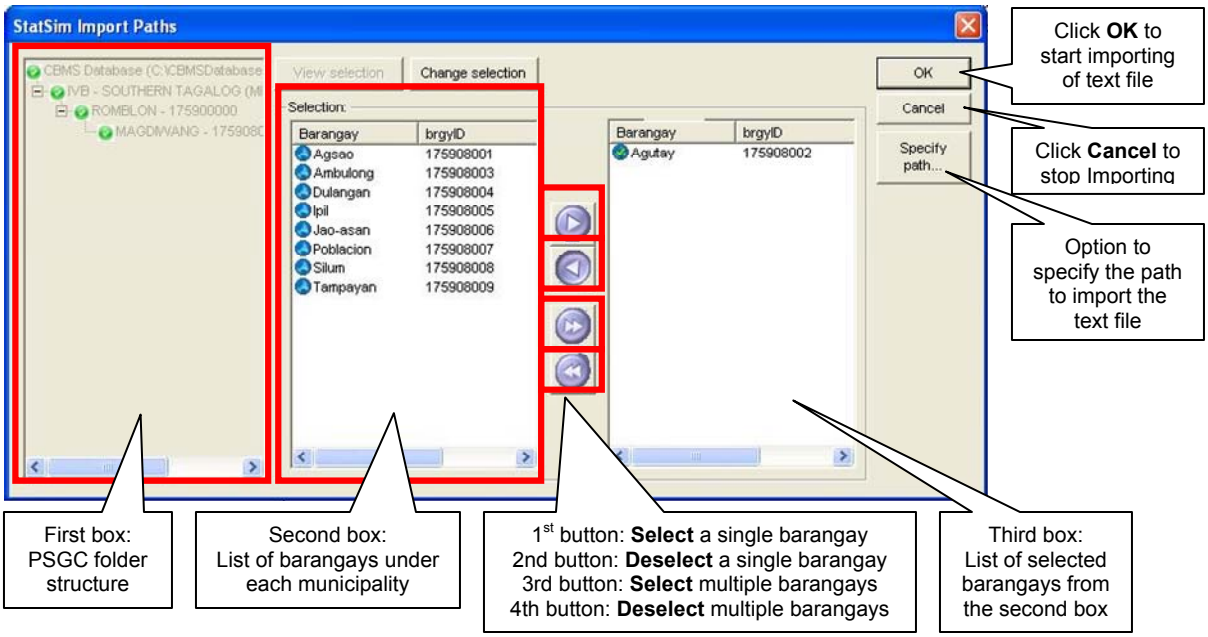
1. To import an encoded barangay data, go to File in the main menu, then select Import.

The user has 2 ways of importing the encoded data: one is the option to select the text file through the **Auto selection of levels** and the other is by the **Specify path** option.



a. Auto Selection of levels

The geopolitical levels are pre-specified following the Philippine Standard Geographic Code (PSGC) folder structure. In the example below, the selection starts from the region, next is the province, followed by the list of municipalities (viewed in the first box) and all barangays under each municipality. The list of barangays can be seen at the second box in the window. Selecting the barangays is easy as selection buttons are present between the second and third box. The third box contains barangays which have been selected from the second box.

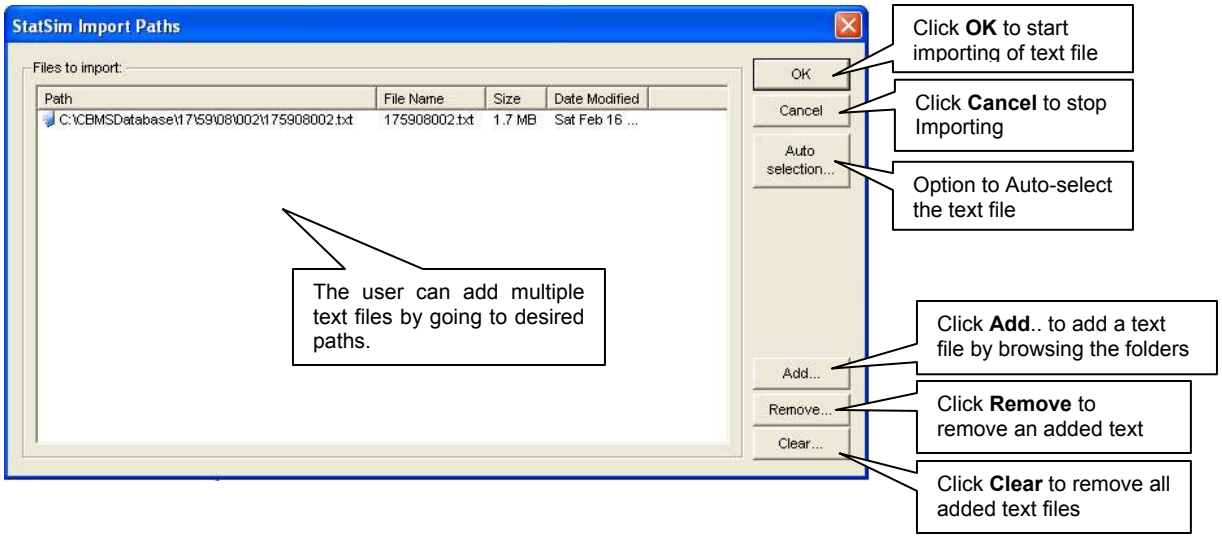


b. Specify path

The specify path options allow the user to manually select the encoded data similar to opening files using windows explorer.

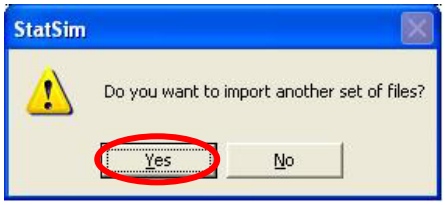
In the window, click the button Add to open the browser.

From the browser, select the text file. Usually, as instructed during the training, all the text files follow the PSGC folder structure. For example, in selecting the text file of Brgy. Agutay, Magdiwang, Romblon select the text file 175908002.hpq from the folder C:\CBMSDatabase\17\59\08\002.

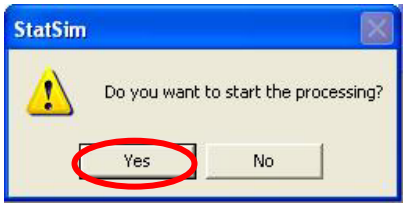


2. After selecting the text file/files from the auto selection of levels or through specifying the paths, click **OK** to start and while fetching, a window will appear indicating "Statsim fetch: Processing __%"

3. After the selected files have been imported, a window will appear to ask if the user wants to import another set of data. Click Yes button to add again using the same process or No if user is already done importing desired text files.



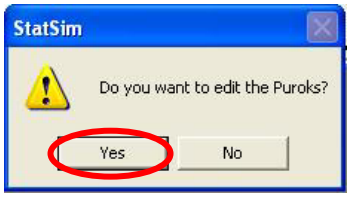
4. Another window will appear, click **Yes** to start the processing.



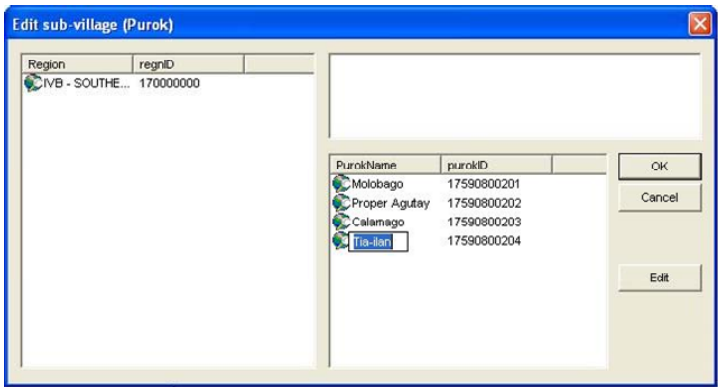
5. A window will appear to ask if the user wants to edit the Purok names. Recall that in the CSPro-based encoding system, all puroks are encoded as codes to reduce mismatches in names.

   This step is very crucial because the labels/names of the puroks in this section must match their names in the NRDB file since matching of these files are both case- and space-sensitive.

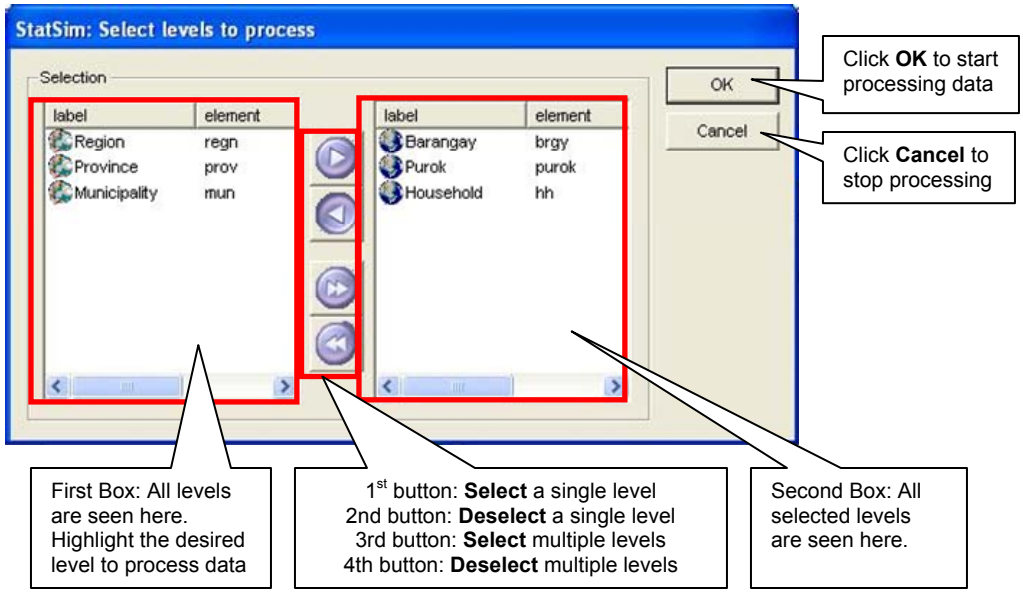
   Click **Yes** to edit the Purok names.



6. Double-click on the PurokName to change the names. After editing all the names, click **OK**.

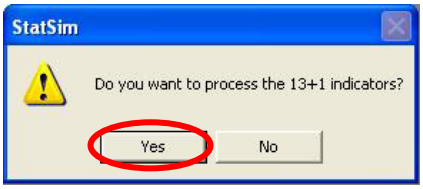


7. The user will now be prompted to select at what level the data will be processed. User can select from the label in the first box and click the button to specify the desired geopolitical levels.



C. Processing the 13+1 CBMS Core Indicators

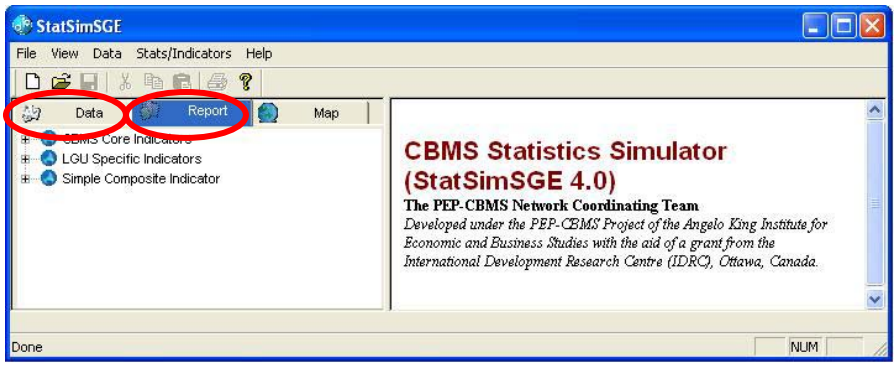
1. The user will be asked if she/he wants to process the CBMS core indicators. Click **Yes** to proceed.



While StatSim is processing, you will see the status of the processing activity at the bottom of the page. Please note that the length of time required in processing the data depends on the size of the file, number of text files that the user is processing and the number of selected levels (region, province, municipality, barangay, purok and households). When done, the status will now indicate "**ready**" or "**done**".

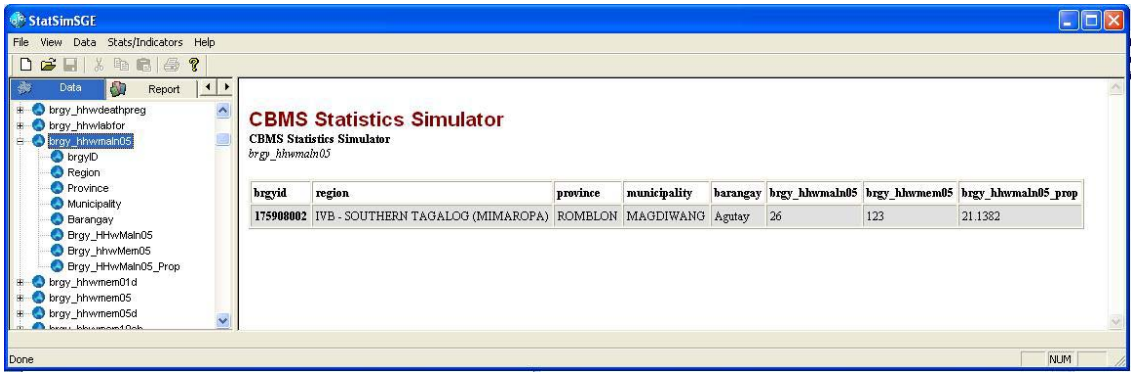
D. Displaying the CBMS Core Indicators

To view the data, the StatSim contains the tree view of the data and report tables (Data and Report Tabs) in the left side of the interface.



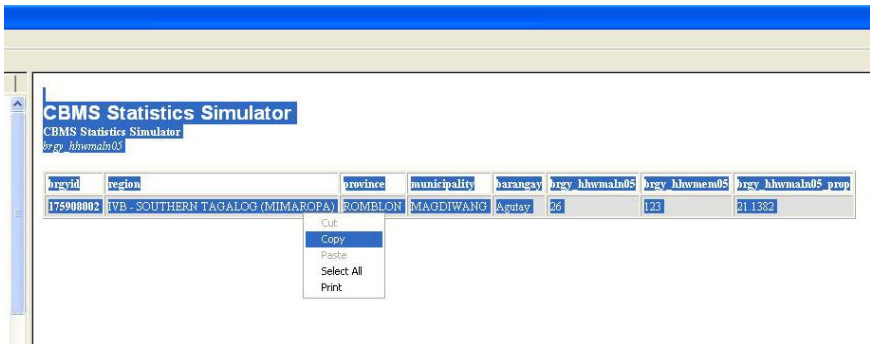
1. Data Tab

The Data tab in the left side of the StatSim contains all the data that the program had automatically computed. The computed tables are named by each level and the data it contains. Clicking a table shows the variable names and data.



For example, the table brgy_hhmaln05 shows the brgyid, region, province, municipality, barangay, number of households with children 0-5 years old who are malnourished (brgy_hhmaln05), number of households with children 0-5 years old (brgy_hhwmem05) and proportion of households with children 0-5 years old who are malnourished (brgy_hhmaln05). Please refer to the **Annex 1** for the data dictionary and list of variable names.

The table can be copied to other software such as excel or word, etc. To do this, click Ctrl-A (select all) then right-click and click copy then paste to the desired program. Another option is to right-click in the output view and select the option "**Export to Microsoft Excel"**.

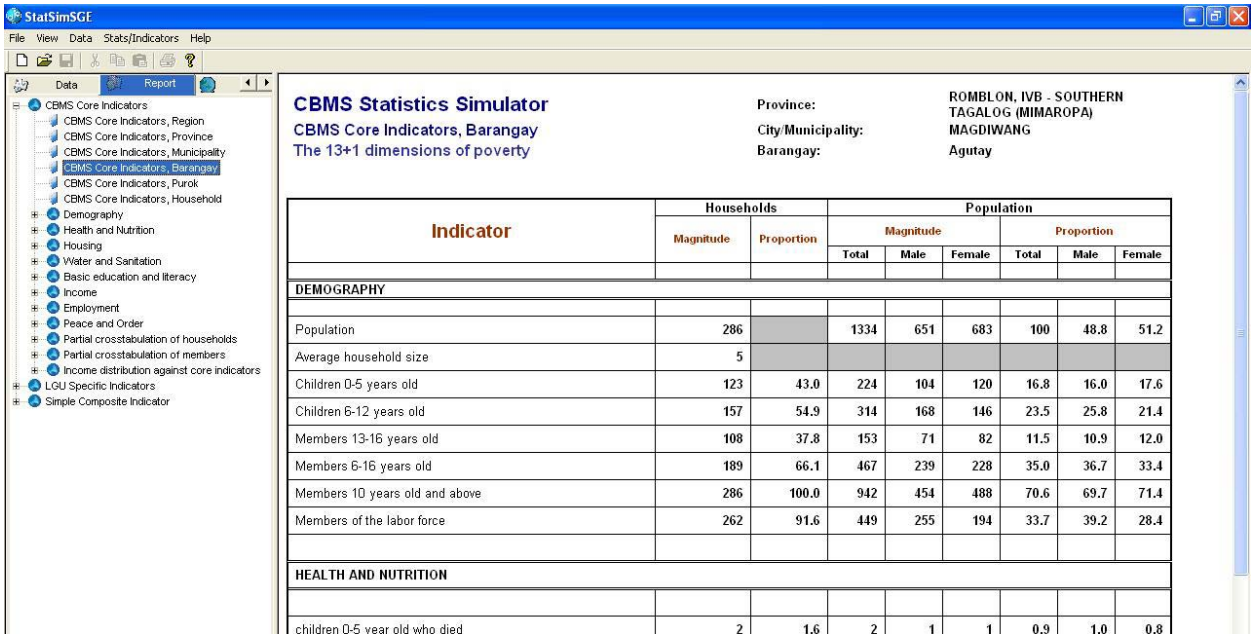


or

2. Reports Tab

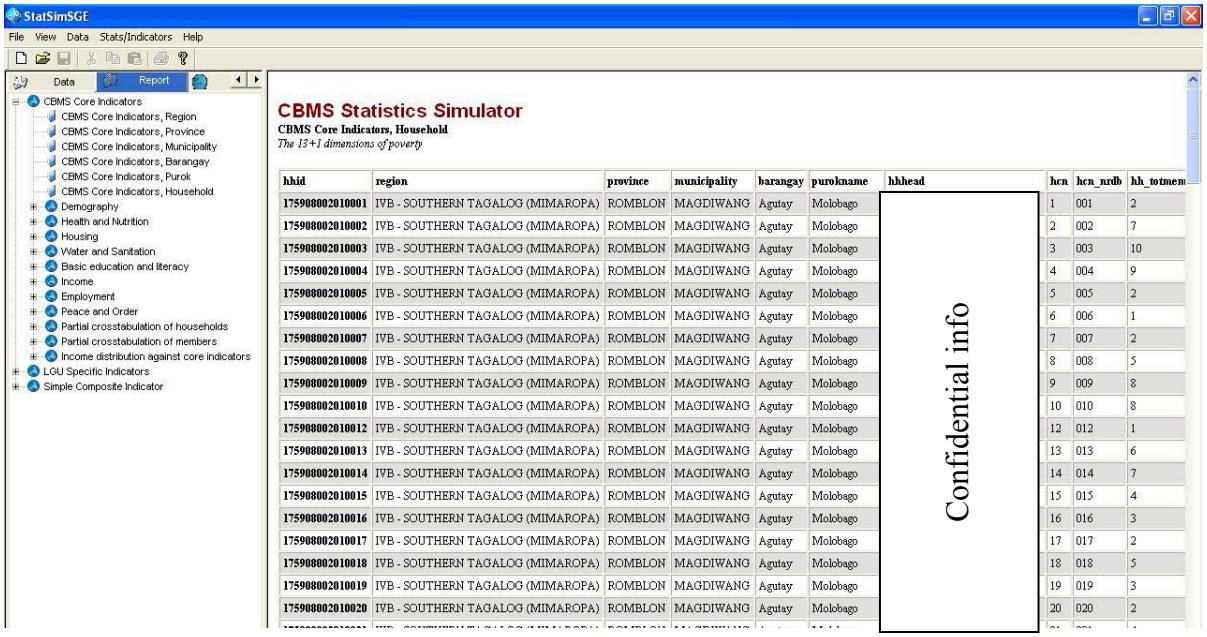
The Report tab shows ready-made tables that can be printed right-away or attached to documents. As compared to the Data tab, the reports generated here does not contain variable names as column headings but are properly titled so that it can be easily understood.

To display the CBMS Core Indicators, click on the **CBMS Core Indicators** in the report view. Choose the level of the data you wish to view. If you choose to display the CBMS Core Indicators at the barangay level, then you will be able to view an output similar to the one displayed below:



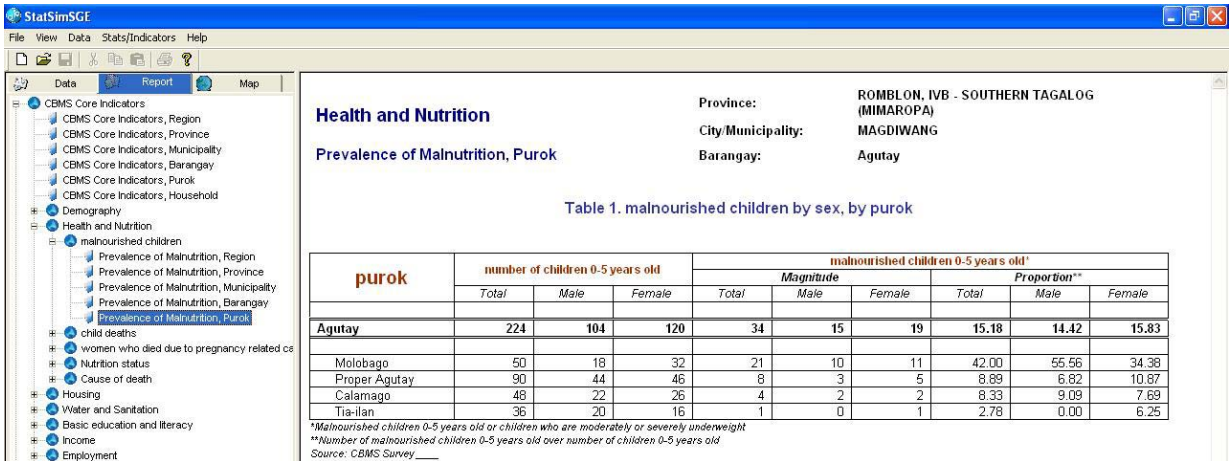
Indicator	Households		Population					
	Magnitude	Proportion	Magnitude			Proportion		
			Total	Male	Female	Total	Male	Female
DEMOGRAPHY								
Population	286		1334	651	683	100	48.8	51.2
Average household size	5							
Children 0-5 years old	123	43.0	224	104	120	16.8	16.0	17.6
Children 6-12 years old	157	54.9	314	168	146	23.5	25.8	21.4
Members 13-16 years old	108	37.8	153	71	82	11.5	10.9	12.0
Members 6-16 years old	189	66.1	467	239	228	35.0	36.7	33.4
Members 10 years old and above	286	100.0	942	454	488	70.6	69.7	71.4
Members of the labor force	262	91.6	449	255	194	33.7	39.2	28.4
HEALTH AND NUTRITION								
children 0-5 year old who died	2	1.6	2	1	1	0.9	1.0	0.8

If you choose to display the CBMS Core Indicators at the household level, below is the sample output:



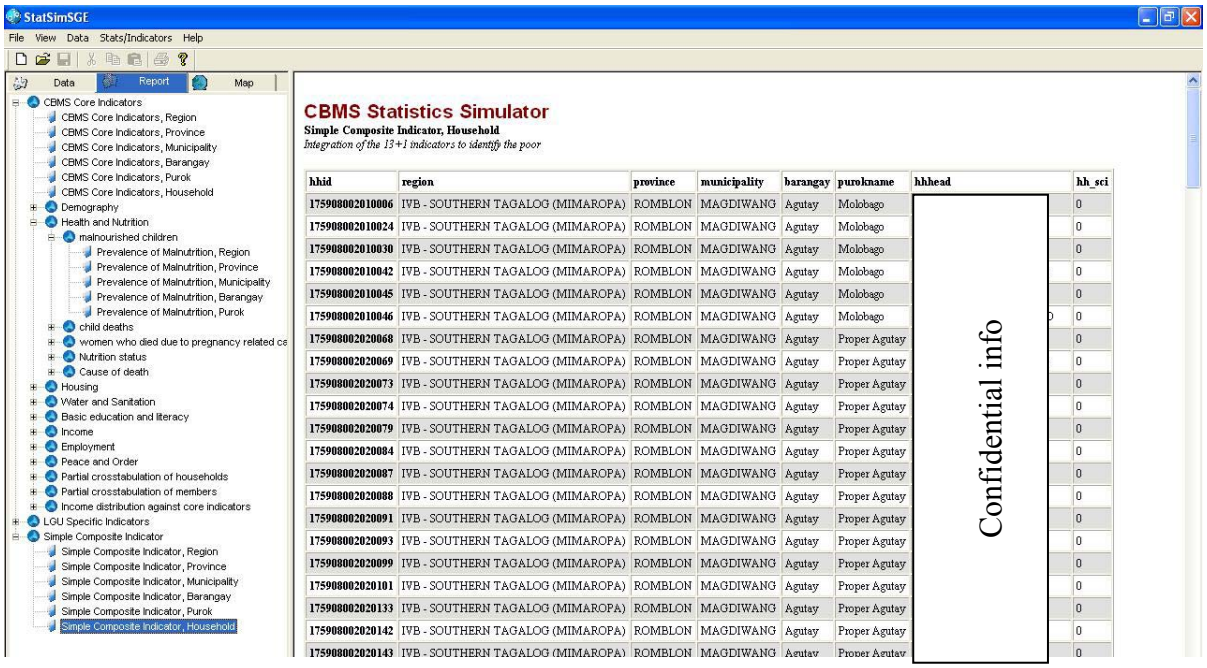
hhid	region	province	municipality	barangay	purokname	hhhead	hcn	hcn_nrdb	hh_totmem
175908002010001	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Molobago		1	001	2
175908002010002	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Molobago		2	002	7
175908002010003	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Molobago		3	003	10
175908002010004	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Molobago		4	004	9
175908002010005	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Molobago		5	005	2
175908002010006	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Molobago		6	006	1
175908002010007	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Molobago		7	007	2
175908002010008	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Molobago		8	008	5
175908002010009	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Molobago		9	009	8
175908002010010	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Molobago		10	010	8
175908002010012	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Molobago		12	012	1
175908002010013	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Molobago		13	013	6
175908002010014	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Molobago		14	014	7
175908002010015	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Molobago		15	015	4
175908002010016	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Molobago		16	016	3
175908002010017	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Molobago		17	017	2
175908002010018	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Molobago		18	018	5
175908002010019	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Molobago		19	019	3
175908002010020	IVB - SOUTHERN TAGALOG (MIMAROPA)	ROMBLON	MAGDIWANG	Agutay	Molobago		20	020	2

Users can also choose to display one indicator at a time only by clicking on the specific sector and indicator then chose the level of data to view. For this example, the user opted to see prevalence of malnutrition at the purok level. The output view shows data for 4 puroks of Brgy. Agutay.

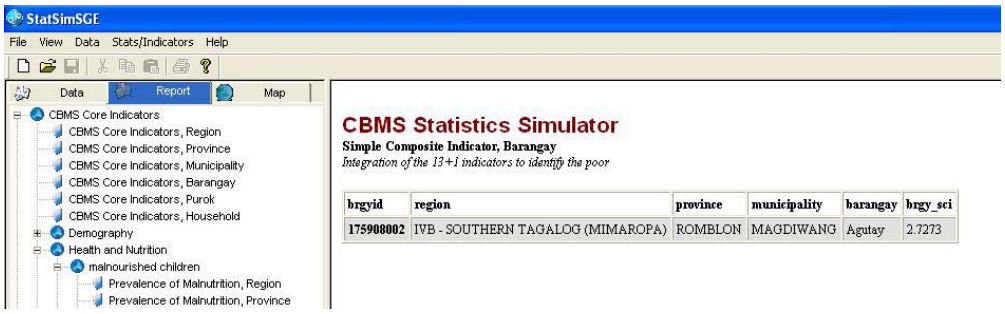


Users can also view ***Selected LGU indicators*** and the ***Simple Composite Index*** automatically computed by the StatSim.

There are 14 basic needs (14 CMS core indicators) that each household should meet. The Simple Composite Index (SCI) is the sum of all unmet needs of the households. For example, HH#1 have (1) income below poverty threshold; (2) have children who are malnourished; and (3) have children who are not attending elementary school. Thus, the SCI of HH#1 is 3. Below is a sample output. Note that the list is sorted according to the lowest to the highest SCI.



At the purok and higher geopolitical levels, the SCI is the average household scores at that level. In the example below, the average unmet needs of the households in Brgy. Agutay is 3. This number is useful in targeting barangays with the highest average unmet needs.



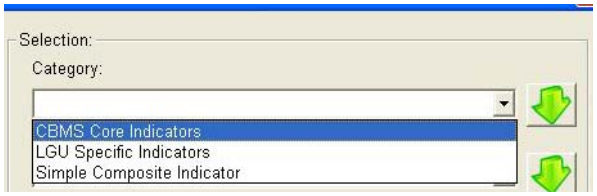
E. Customizing Indicator Tables

Aside from the automatically generated data, users can also create their own tables using all variables found the HPQ. Customization involves familiarization of the data dictionary and variable names (Annex A of this manual).

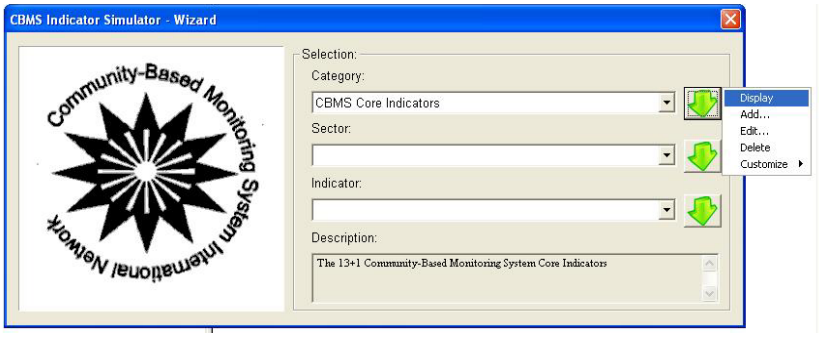
1. The CBMS Indicator Simulator – Wizard

Open the Indicator Simulator-Wizard by clicking the **Stats/Indicators** in the main menu and select **Wizard…** (shortcut: Ctrl+W). The following dialog box will be displayed.

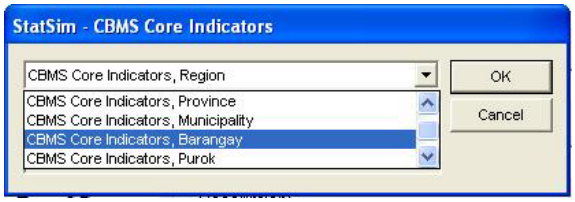
The data automatically generated users access through the report tab can also be displayed the wizard. The first pulldown list shows the categories; by default it shows 3 categories:



To display the CBMS Core Indicators for a chosen level, click on the pull-down list and select **CBMS Core Indicators**. Afterwards, click on the green arrow adjacent to the pull-down list and click **Display.**



The user will be prompted to choose at what level to display the CBMS Core Indicators: region, province, municipality, barangay, purok or household.



Results are the same as in Section D.2. Automatically-generated indicator tables also follow the same procedure.

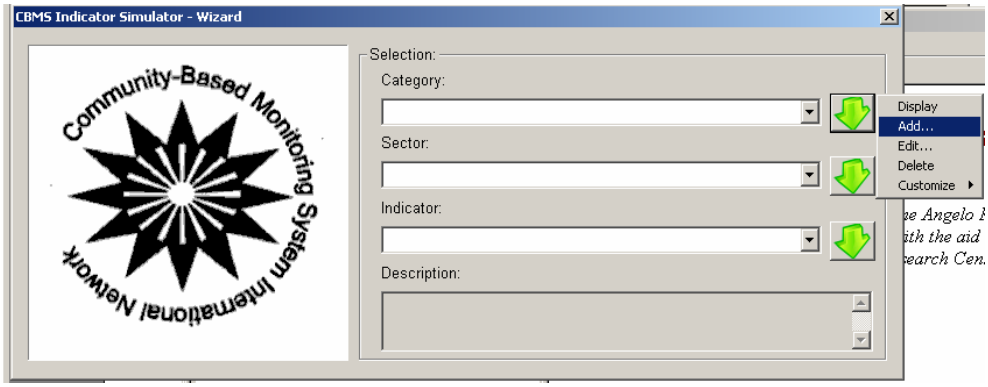
2. Categories, Sectors and Indicators

a. Categories

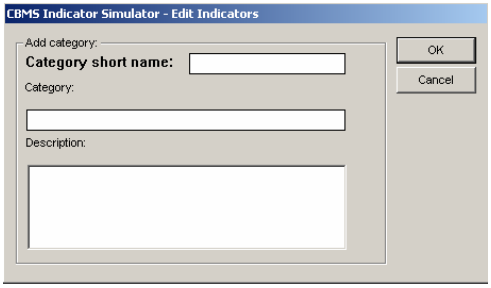
There are 3 default categories in the StatSim. These are: CBMS Core Indicators, LGU Specific Indicators and Simple Composite Index.

i. If the user wants to add another category: here are the steps:

1. Open Wizard. Click the green arrow beside the pulldown list for **Category**. Click **Add…**



2. Indicate the Category short name, full name of the category and description. Click **OK** when done.



ii. To edit the details of a category, select the specific category. Click the green arrow and select Edit. Change the details that needed to be changed.

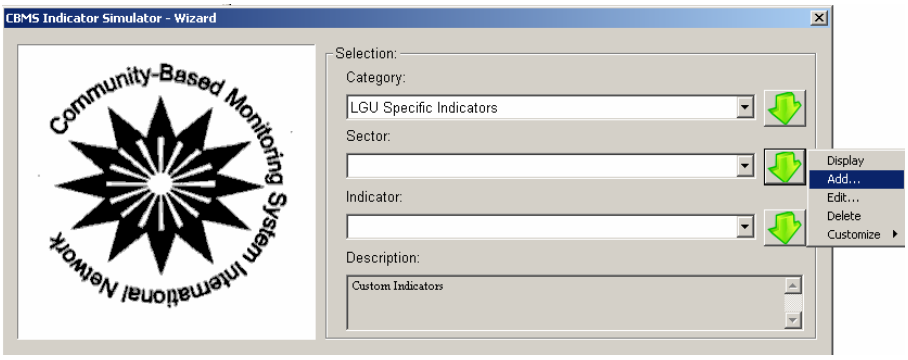
iii. To delete a category, select the category to be deleted. Click the green arrow and select delete.

b. Sectors

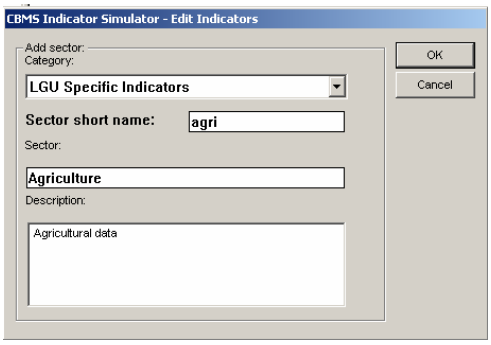
The procedure for adding Sectors is the same as adding Categories. Below is an example:

i. Adding sectors

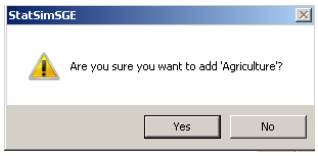
1. Open Wizard. Select the Category. Click the green arrow beside the pulldown list for **Sector**. Click **Add…** Example: Under the LGU specific indicators category, user will add a sector.



2. Choose the category. Indicate the **Sector** short name, full name of the sector and description. Example: Under LGU Specific Indicators, the sector short name is agri, the name of the sector is Agriculture and description entered Agricultural data. Click **OK**.

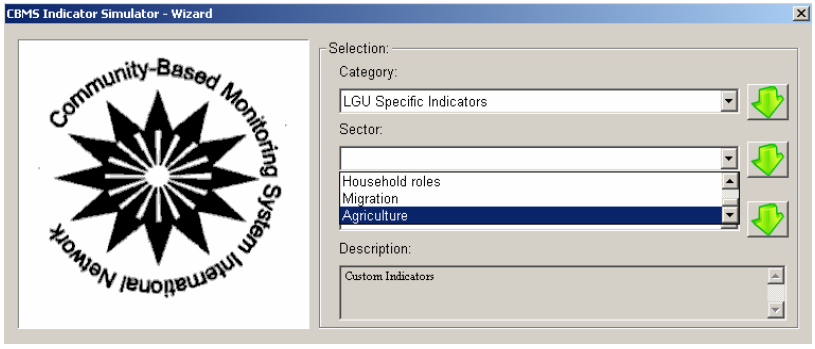


3. A window will pop-up asking if the user really wants to add the sector. Click **Yes** if sure.



4. Another window will open indicating the sector had been added.

5. To check if the user had added the sector name, choose the category name. Click the pulldown list beside sectors. The latest added Sector can be seen at the bottom of the list.



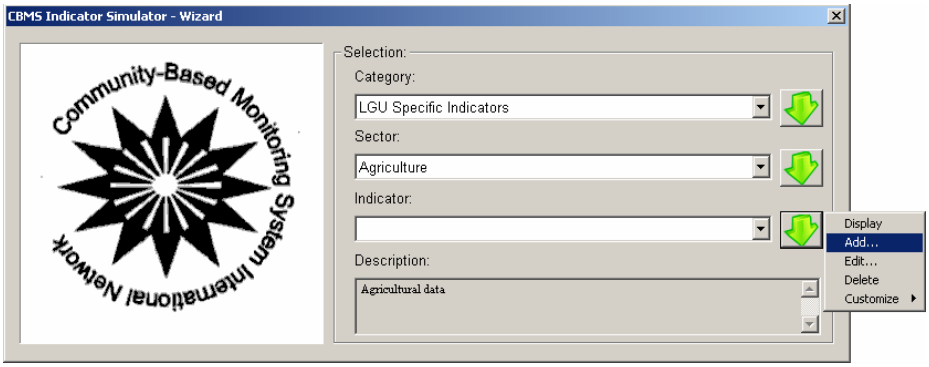
ii. To edit the details of a sector, select the specific sector. Click the green arrow and select Edit. Change the details that needed to be changed.

iv. To delete a sector, select the category, then select the sector to be deleted. Click the green arrow and select delete.

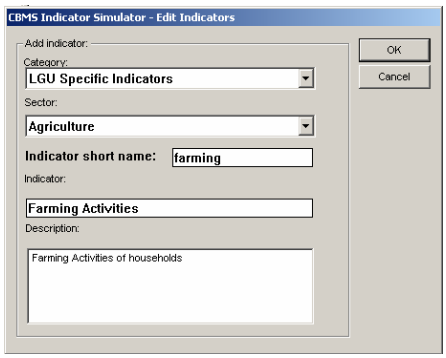
c. Indicators

i. Adding Indicators

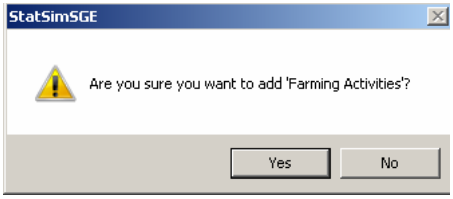
1. Open Wizard. Select the Category and Sector. Click the green arrow beside the pulldown list for **Indicator**. Click **Add…**
   Example: Under the LGU specific indicators category and Agriculture Sector, user will add an indicator.



2. Choose the category and sector. Indicate the **Indicator** short name, full name of the indicator and description.
   Example: Under LGU Specific Indicators, select the sector Agriculture. The indicator short name is farming, the name of the sector is Farming Activities and description Farming Activities. Click **OK**.



3. A window will pop-up asking if the user really wants to add the indicator. Click **Yes** if sure.



4. Another window will open indicating the indicator had been added.

5. To check if the user had added the sector name, choose the category and sector names. Click the pulldown list beside indicators. The latest added Indicator can be seen at the bottom of the list.

ii. To edit the details of an indicator, select the specific indicator. Click the green arrow and select Edit. Change the details that needed to be changed.

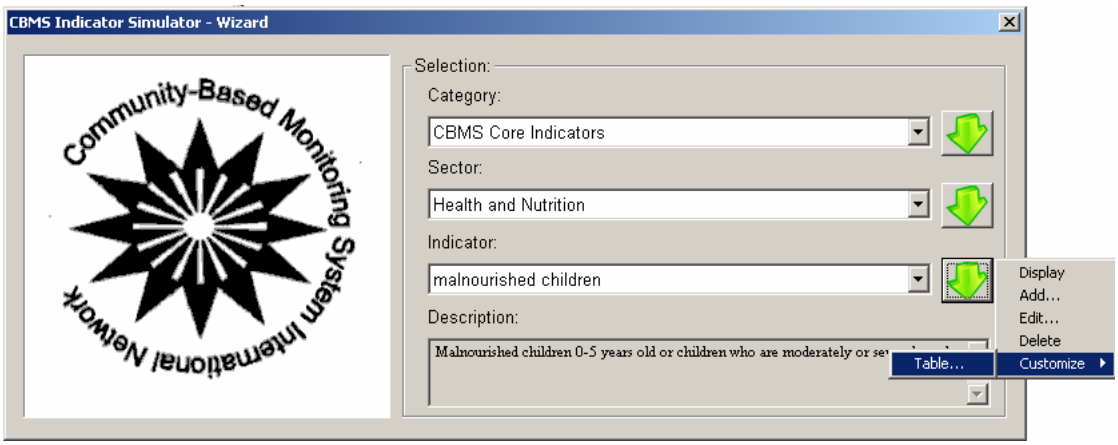
iii. To delete an indicator, select the category and sector, then select the indicator to be deleted. Click the green arrow and select delete.

3. Tables

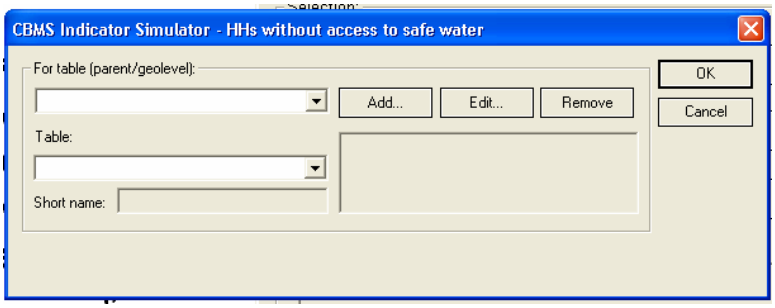
a. Lists

For targeting of beneficiaries, it is important to list who should be beneficiaries of certain programs. Example, for a supplemental feeding program, the list of malnourished children should be listed as primary beneficiaries of this program. Here are the steps to produce this list:

i. Under the category CBMS Core Indicators, select Health and Nutrition and choose the indicator malnourished children. Then left click on the green arrow button and click **Customize** and select **Table…**

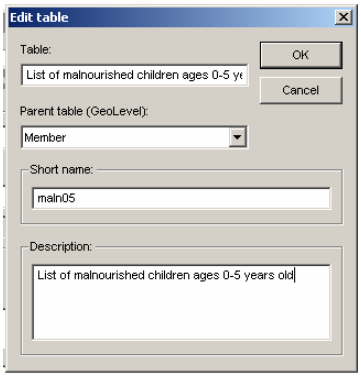


ii. A dialog box similar to the one displayed below will be shown:



iii. Under For table (parent/geolevel), select **Member**. Note that you do this because the indicator is at the member level.

iv. Click on the **Add** button**.** A dialog box similar to the one displayed below will appear:

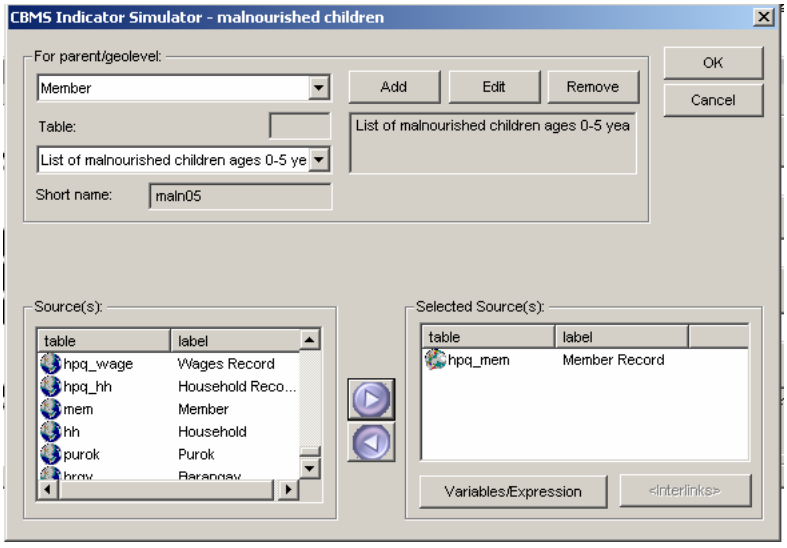


v. On the dialog box, do the following:
   1. Under *Table*, type "List of malnourished children ages 0-5 years old"
   2. Under *Short Name,* type "maln05".
   3. Under Description, type "List of malnourished children ages 0-5 years old"

   Note that some of the information is arbitrary. Click on **OK**.

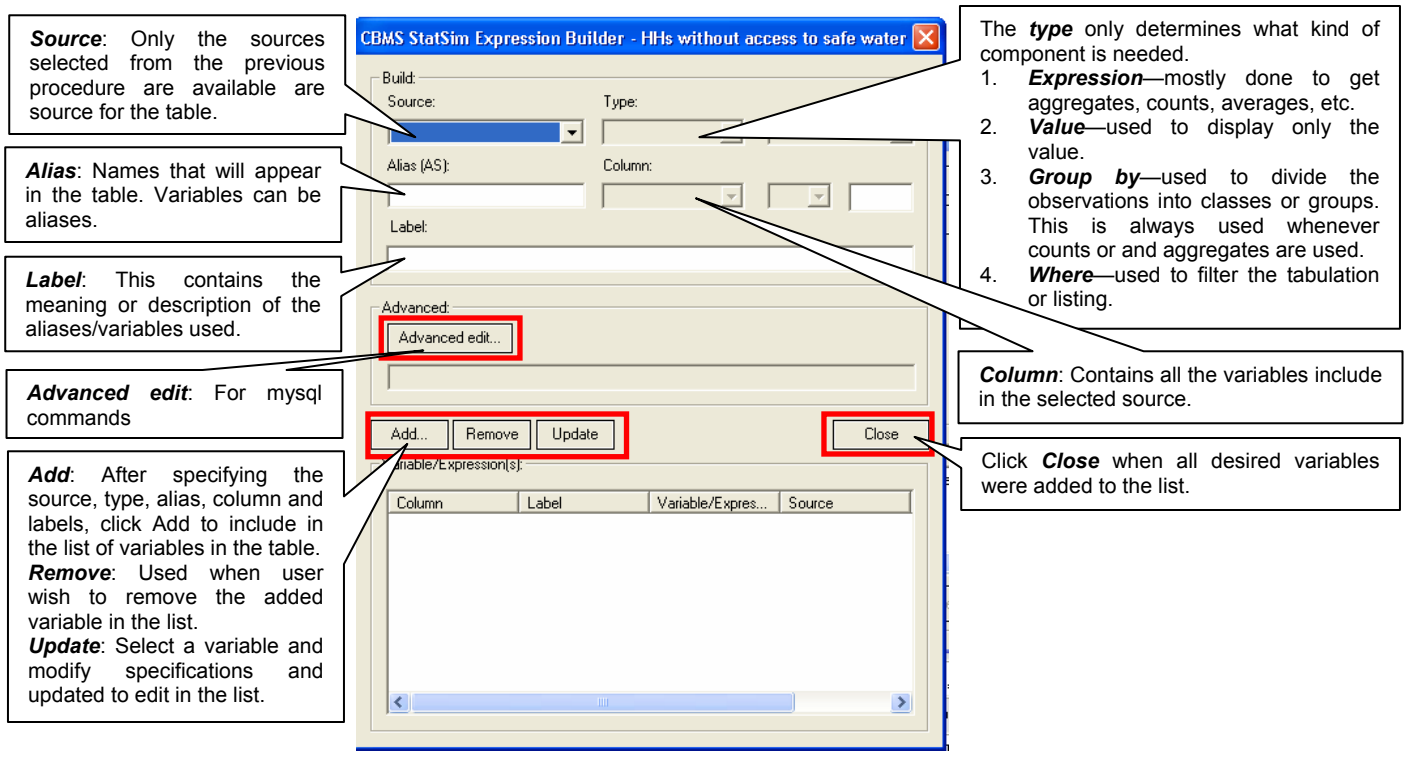
vi. A dialog box will appear asking you if you want to add the definition of "List of malnourished children ages 0-5 years old." Click **Yes**. A dialog box will again appear confirming that it has been added. You will then be directed to the Indicator Simulator for "List of malnourished children ages 0-5 years old." You will notice that under Table, you can now select "List of malnourished children ages 0-5 years old."

vii. Under Plausible Source(s), select **hpq_mem** (label: Member Record) and click on the arrow pointing to the box on the selected sources. User will be asked if he/she would want to add Member Record as plausible source of the table.
The plausible sources in the bottom left side of the window are tables which can be from raw data or from processed data. Added tables such as the list that the user is about to add will eventually be a plausible source of data.
Note that in this stage, you are selecting the sources where information about the indicator could be found. User will be notified that the source was added.



viii. To define contents of your table, click on **Variables/Expressions.**

ix. A dialog box similar to the one displayed below will appear:



x. In building the table, the variables must be added one at a time. Thus, the user is advised to draft a dummy table first before actual building a table in the statsim. For the example, list of malnourished children, do the following:

1. To display barangay name:
   a. Under *Source,* click on **hpq_mem**.
   b. In *Type*, use **Value**.
   c. In *Alias*, type "brgy". You can repeat this in the *Label*.
   d. Under *Column*, select **brgy** which contains information on the barangay name.

2. To display purok name:
   a. Under *Source,* click on **hpq_mem**.
   b. In *Type*, use **Value**.
   c. In *Alias*, type "Purok". You can repeat this in the *Label*.
   d. Under *Column*, select **purok** which contains information on the purok name.
   e. Click *Add*.

3. To display household ID:
   a. Under *Source,* click on **hpq_mem**.
   b. In *Type*, use **Value**.
   c. In *Alias*, type "household id". You can repeat this in the *Label*.
   d. Under *Column*, select **hcn** which contains information on the household ID.
   e. Click *Add*.

4. To display surname of child:
   a. Under *Source,* click on **hpq_mem**.
   b. In *Type*, use **Value**.
   c. In *Alias*, type "surname". You can repeat this in the *Label*.
   d. Under *Column*, select **msname**.
   e. Click *Add*.

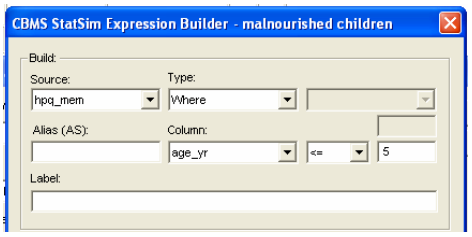
5. To display first name of child:
   a. Under *Source,* click on **hpq_mem**.
   b. In *Type*, use **Value**.
   c. In *Alias*, type "firstname". You can repeat this in the *Label*.
   d. Under *Column*, select **mfname**.
   e. Click *Add*.

6. To display age of child:
   a. Under *Source,* click on **hpq_mem**.
   b. In *Type*, use **Value**.
   c. In *Alias*, type "age". You can repeat this in the *Label*.
   d. Under *Column*, select **age_yr**.
   e. Click *Add*.

7. To display sex of child:
   a. Under *Source,* click on **hpq_mem**.
   b. In *Type*, use **Value**.
   c. In *Alias*, type "sex". You can repeat this in the *Label*.
   d. Under *Column*, select **sex**.
   e. Click *Add*.

8. To filter only children ages 0-5:
   a. Under *Source,* click on **hpq_mem**.
   b. In *Type*, use **<Where>**.
   c. Under *Column*, select **age_yr**. The operator will be activated. Select "<=". In the last box, type "5" so that the list will only contain children will age_yr<=5 years old.

d. Click *Add*.



9. To filter only children ages 0-5 who are malnourished:
   a. Under *Source,* click on **hpq_mem**.
   b. In *Type*, use **<Where>**.
   c. Under *Column*, select **mnutind**. The operator will be activated. Select ">=". In the last box, type "3" so that the list will only contain children whose nutritional status is 3 and 4, which means moderately and severely malnourished, respectively.
   d. Click *Add*.

10. You can replicate this if you would like other information about the household.

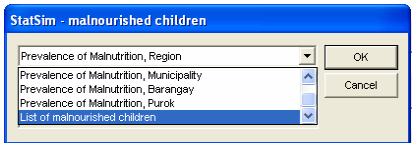
xi. Click **Close** and **OK** in the next dialog.

xii. You can now display the list of malnourished children. To do this, here are the steps:

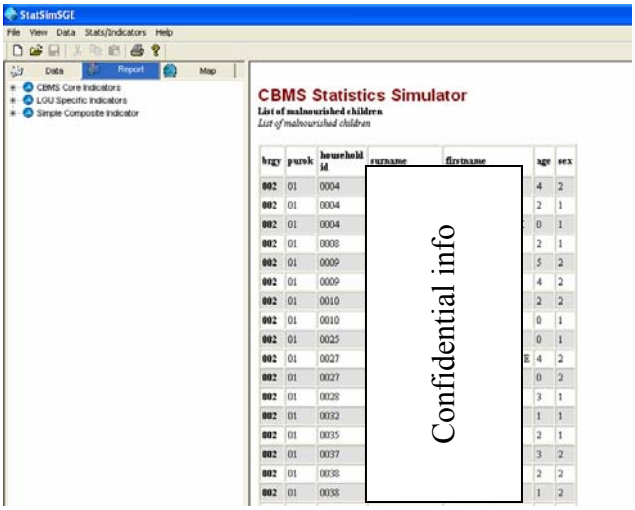
1. In the wizard, select
   a. Category: CBMS core indicators
   b. Sector: Health and Nutrition
   c. Indicator: malnourished children

2. Click the green arrow and select Display

3. From the list, select the newly-created table, List of malnourished children



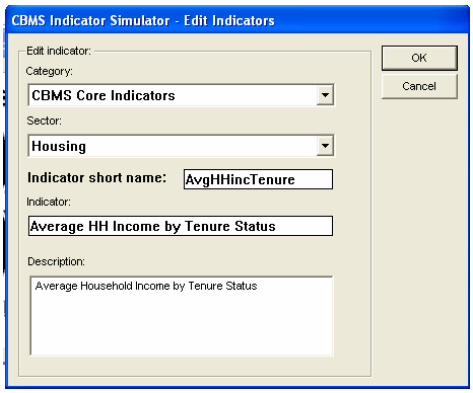
4. Here is the output:



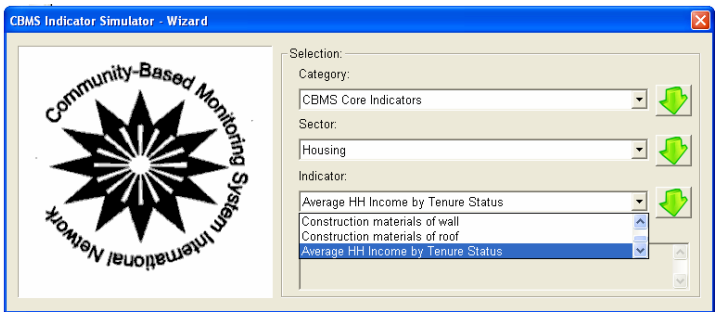
b. Aggregates

Aside from generating lists, you can also use the CBMS StatSim to display aggregates. For example, you may follow the following step-by-step process in generating an output that can display the **Average Household Income by Type of Tenure Status**:

i. Add an indicator with the ff. specifications:
   1. On *Category*, click on the pull-down list and click on **CBMS Core Indicators**.
   2. On *Sector*, click on the pull-down list and click on **Water and Sanitation**.
   3. On the box adjacent to *Indicator Short Name*, type **AvgHHincTenure**. Again, note that the short name should be one word only.
   4. On the box under Description, type **Average Household Income by Tenure Status**.

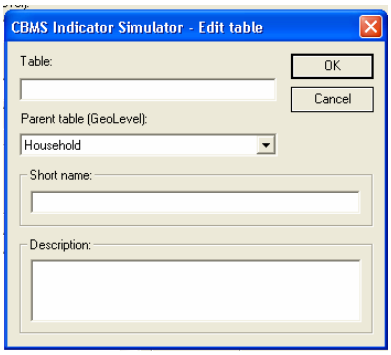


   5. Click on **OK.**
   6. A dialog box will appear asking if you want to add 'Average HH Income by Tenure Status'. Click on **Yes**.
   7. A dialog box will again appear confirming that ''Average HH Income by Tenure Status' has been added.
   8. On the Indicator Simulator Wizard, you will notice that 'Average HH Income by Tenure Status' is now part of the Indicator pull-down list as shown below:



ii. Now, you could link to and customize for the newly defined indicator. To do this, do the following:

   1. Click on **Average HH Income by Tenure Status** and click the arrow adjacent to it.
   2. Select **Customize** and then click on **Table**.
   3. Under for table (parent/geolevel), select **Household**.
   4. Click on the **Add** button. A dialog box similar to the one displayed below will appear:

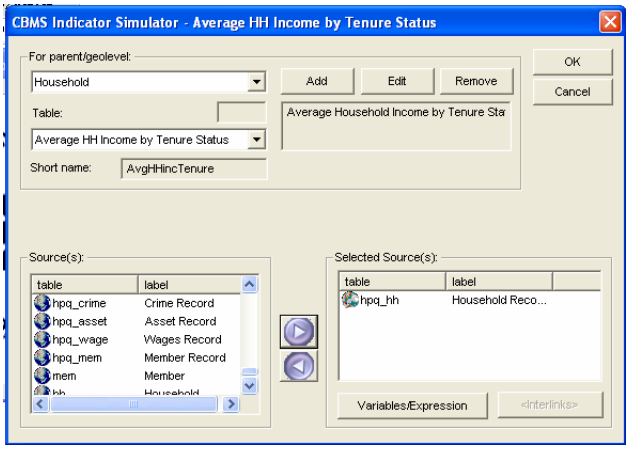


5. Do the following in the dialog:
    a. Under *Table*, type **Average HH Income by Tenure Status.**
    b. Under Short Name, type **AvgHHincTenure.**
    c. Under Description, type **Average Household Income by Tenure Status**.

6. Click on **Ok**.

7. A dialog box will appear asking you if you want to add the definition of "Average HH Income by Tenure Status." Click **Yes**. A dialog box will again appear confirming that it has been added. You will then be directed to the Indicator Simulator for "Average HH Income by Tenure Status." You will notice that under Table, you can now select **Average HH Income by Tenure Status**.

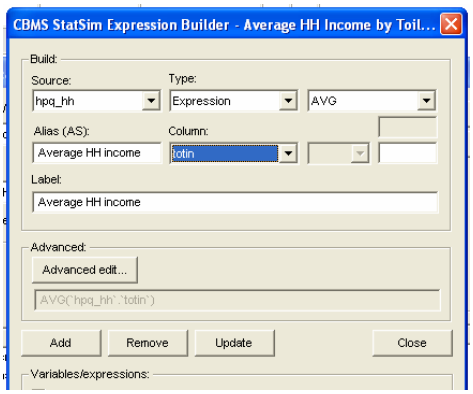
8. Under Plausible Source(s), select **hpq_hh** (label: Household Record) and click on the arrow pointing to the box on the selected sources.



9. Click on **Variables/Expressions** to select the components of the table.

10. To display types of tenure stats:
    a. Under Source, click on **hpq_hh**.
    b. Under Type, select **Value**.
    c. Under Column, select **tenure**.
    d. Under Alias and label, type **Tenure Status**.
    e. Click on **Add**. The variable on Tenure Status is now added as a variable.

11. To display average household income:
    a. Source: click on hpq_hh.
    b. Under Type, select **Expression** and click on **AVG** (Average) on the box next to it.
    c. Under Column, select **totin** (Total Income).
    d. Under Alias and label, type **Average HH income**.
    e. Click on **Add**. The variable on Total Income is now added as a variable.



12. To group the averages:
    a. Go back to Source and click on **hpq_hh**.
    b. Under Type, select **Group By**.
    c. Under Column, select **tenure**.
    d. Click on **Add**.

13. Click **Close**.

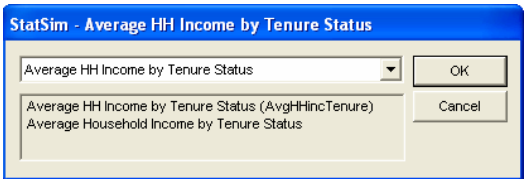
14. Click **OK** on the CBMS Indicator Simulator.

15. You can now display the Average income by tenure status. To do this, here are the steps:

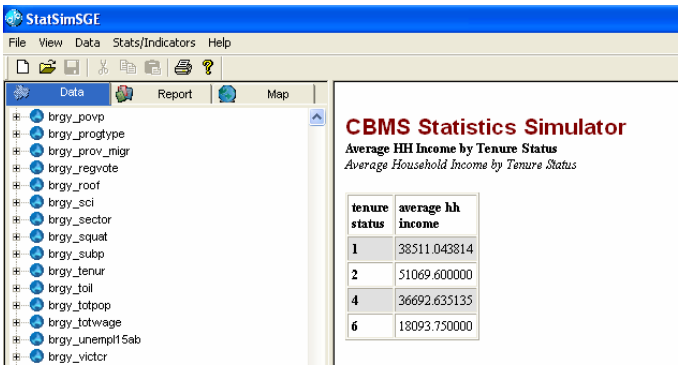
    a. In the wizard, select
        i. Category: CBMS core indicators
        ii. Sector: Housing
        iii. Indicator: Average HH income by Tenure Status

    b. Click the green arrow and select Display

16. From the list, select the newly-created table, Average HH income by Tenure Status



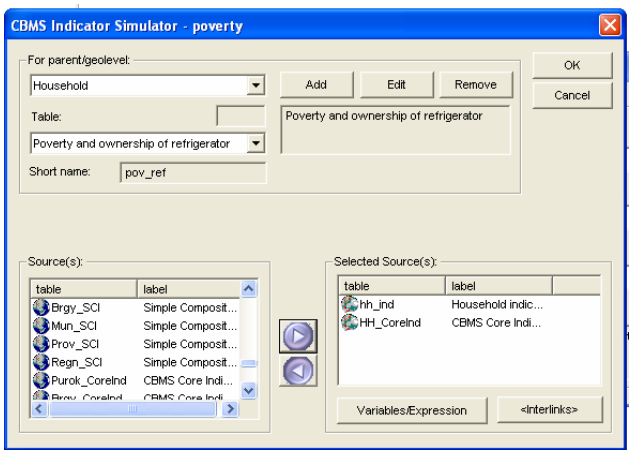
17. Click on **Ok**. The following output will now be displayed:



4. Using Interlinks

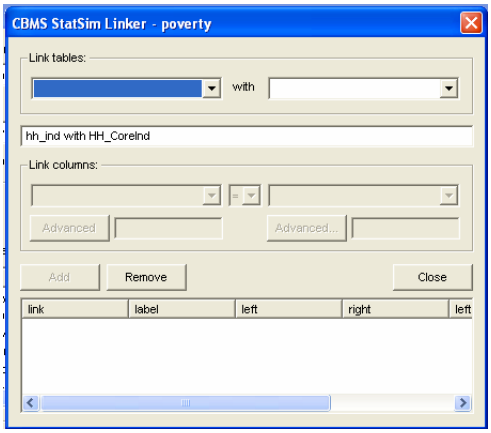
There are times that you need to get information for your table from two or more tables. This would need interlinking in order to integrate information from at least two tables.

When you select two or more sources in the table customizer, the button **Interlinks** will be activated. This would prompt the user to integrate the two tables through linking.



For example, if you would like to display household poverty status and ownership of a refrigerator. The poverty status can be taken from the table hh_CoreInd while the ownership of assets can be found from the table hh_ind. In order to come up with a table containing these indicators, user must interlink the two tables. To make the tables relate to each other, do the following:

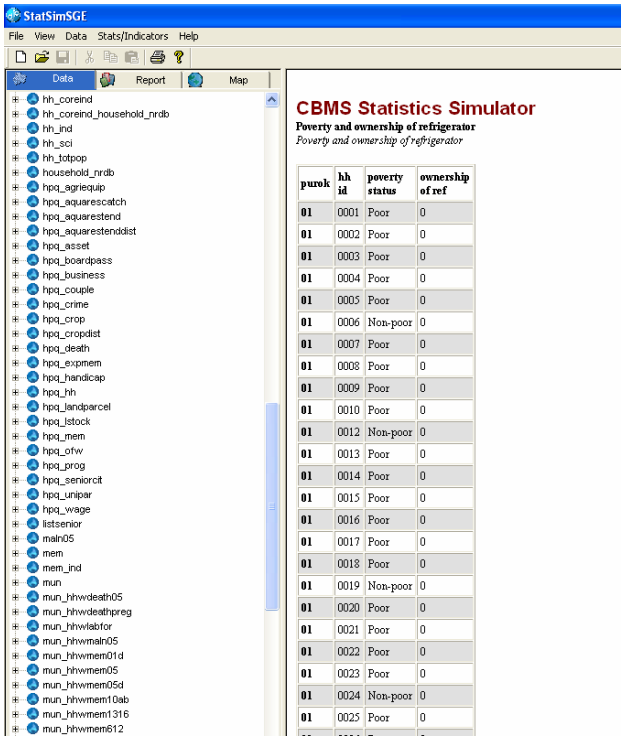
1. Click **Interlinks.** The following dialog box will appear:



2. Do the following:
   a. In the *Left* pulldown list, select **hh_ind** and **hh_CoreInd** in the *Right*.
   b. In the *Left* column, select **hcn** and also **hcn_nrdb** in the *Right*. This would make the linker match household IDs in 'hh_ind' and in 'hh_CoreInd'.
3. Click **Add**.
4. Add additional linkages depending on the uniqueness. For instance, if your barangay utilizes ID's unique within puroks, you must add linking between purok codes (**purok**).

You could see that in the **variables/expressions** builder, sources could be either 'hh_ind' or 'hh_CoreInd'. Hence, you could make the table harness information from the two tables and eventually display the household's poverty status and ownership of an asset.

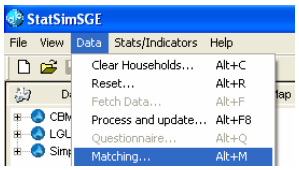
Sample output:



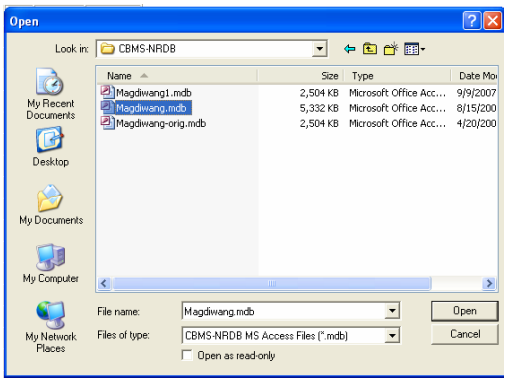
V. Matching Households in the Encoded Data and Digitized Barangay Spot Maps

Before exporting the processed dataset into the NRDB Pro, you should ensure that the households in your encoded data (i.e., text file) match with the households in your digitized barangay spot maps. To do this, do the following:

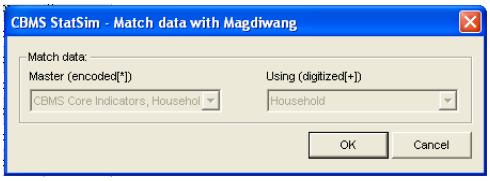
1. Click on **Data**, select **Matching** (shortcut: Alt + M)



2. You will be prompted to open your NRDB file (i.e., file with .mdb file extension). To do this, go to your **CBMSDatabase** folder, locate the file and click **Open**.



3. A window will appear verifying that the user is matching data from the encoded and digitized.



4. An excel file as well as a report in the statsim will open. The MS excel will be displayed similar to the one shown here.

	province	municipalit	barangay	purokname	hcn_nrdb	~match
2	ROMBLON	MAGDIWA	Agutay	Molobago	1	1
3	ROMBLON	MAGDIWA	Dulangan	Bantigue	1	-1
4	ROMBLON	MAGDIWA	Poblacion	Baybay	1	-1
5	ROMBLON	MAGDIWA	Jao-asan	Ilawod	1	-1
6	ROMBLON	MAGDIWA	Ambulong	Pier Tabuk	1	-1
7	ROMBLON	MAGDIWA	Ipil	Pisi	1	-1
8	ROMBLON	MAGDIWA	Agsao	Proper Ags	1	-1
9	ROMBLON	MAGDIWA	Agutay	Proper Agu	1	-1
10	ROMBLON	MAGDIWA	Silum	Proper Silu	1	-1
11	ROMBLON	MAGDIWA	Tampayan	Tabuk (Tul	1	-1
12	ROMBLON	MAGDIWA	Dulangan	Bantigue	10	-1
13	ROMBLON	MAGDIWA	Poblacion	Baybay	10	-1
14	ROMBLON	MAGDIWA	Jao-asan	Ilawod	10	-1
15	ROMBLON	MAGDIWA	Ambulong	Pier Tabuk	10	-1
16	ROMBLON	MAGDIWA	Ipil	Pisi	10	-1
17	ROMBLON	MAGDIWA	Agsao	Proper Ags	10	-1
18	ROMBLON	MAGDIWA	Silum	Proper Silu	10	-1
19	ROMBLON	MAGDIWA	Tampayan	Tabuk (Tul	10	-1

Under the last column with the following heading: **~match,** will appear any of the following codes: 1, -1, or 0.

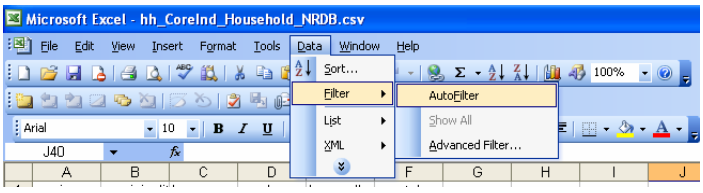
1 denotes that the household ID is found in your encoded file but not in the digitized spot map.

-1 denotes that the household ID is found in the digitized spot map but not found in the encoded file.

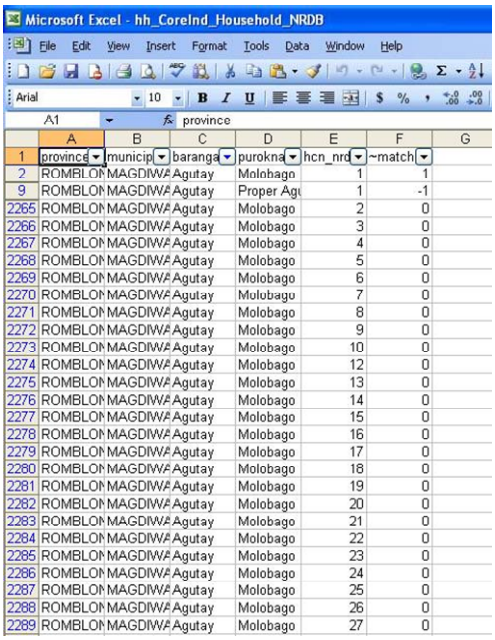
0 denotes that the household ID match on both files, that is, the household ID can be found in both the encoded file as well as in the digitized spot map.

i. In the example, since you are only matching the text file of your barangay (in this case, Brgy. Agutay) with your .mdb file, you can disregard what the report is stating for the other barangays. To do this, follow the following steps:

1. On your Excel file, click **Data.**
2. Click **Filter.**
3. Select **AutoFilter.**



4. Select the name of the barangay that you are processing
5. The last column labeled ~match shows 0 values indicating that your encoded data matches your digitized spotmap.
6. In this example, we have a mismatch: HH#1 was encoded in purok Molobago but was digitized to parent purok Proper Agutay



	A	B	C	D	E	F	G
1	province	municip	baranga	purokna	hcn_nrd	~match	
2	ROMBLON	MAGDIWA	Agutay	Molobago	1	1	
9	ROMBLON	MAGDIWA	Agutay	Proper Ag	1	-1	
2265	ROMBLON	MAGDIWA	Agutay	Molobago	2	0	
2266	ROMBLON	MAGDIWA	Agutay	Molobago	3	0	
2267	ROMBLON	MAGDIWA	Agutay	Molobago	4	0	
2268	ROMBLON	MAGDIWA	Agutay	Molobago	5	0	
2269	ROMBLON	MAGDIWA	Agutay	Molobago	6	0	
2270	ROMBLON	MAGDIWA	Agutay	Molobago	7	0	
2271	ROMBLON	MAGDIWA	Agutay	Molobago	8	0	
2272	ROMBLON	MAGDIWA	Agutay	Molobago	9	0	
2273	ROMBLON	MAGDIWA	Agutay	Molobago	10	0	
2274	ROMBLON	MAGDIWA	Agutay	Molobago	12	0	
2275	ROMBLON	MAGDIWA	Agutay	Molobago	13	0	
2276	ROMBLON	MAGDIWA	Agutay	Molobago	14	0	
2277	ROMBLON	MAGDIWA	Agutay	Molobago	15	0	
2278	ROMBLON	MAGDIWA	Agutay	Molobago	16	0	
2279	ROMBLON	MAGDIWA	Agutay	Molobago	17	0	
2280	ROMBLON	MAGDIWA	Agutay	Molobago	18	0	
2281	ROMBLON	MAGDIWA	Agutay	Molobago	19	0	
2282	ROMBLON	MAGDIWA	Agutay	Molobago	20	0	
2283	ROMBLON	MAGDIWA	Agutay	Molobago	21	0	
2284	ROMBLON	MAGDIWA	Agutay	Molobago	22	0	
2285	ROMBLON	MAGDIWA	Agutay	Molobago	23	0	
2286	ROMBLON	MAGDIWA	Agutay	Molobago	24	0	
2287	ROMBLON	MAGDIWA	Agutay	Molobago	25	0	
2288	ROMBLON	MAGDIWA	Agutay	Molobago	26	0	
2289	ROMBLON	MAGDIWA	Agutay	Molobago	27	0	

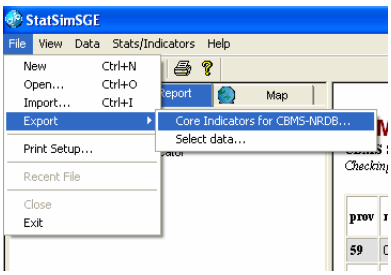
7. To correct this, we need to find if the error is in the encoding or in the digitizing.
8. In this example, the user were able to identify the mistake was in the digitized file. The error committed was in parenting the digitized household id in a different parent purokname. To resolve cases such as this, go to the nrdb file and correct the parenting by changing the purok as parent feature of that household.
   If however, the mistake was in parenting in the encoding file, it can be resolved by going to the concerned household record's persistent items section in the encoding system and correct the parenting by changing the purok in the persistent items to the appropriate purok.

9. Once this is done, you can repeat the steps above and the matching report should now indicate that the household IDs in both the encoded file and the digitized spot map match.

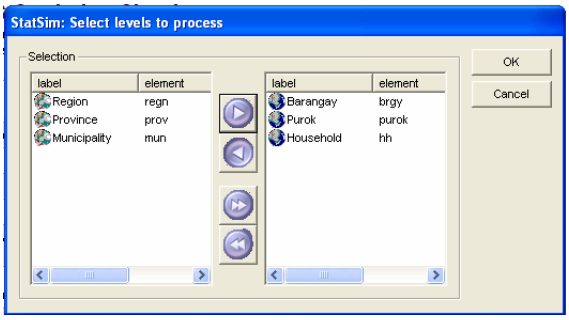
VI. Instructions on Exporting Processed CBMS Core Dataset from CBMS StatSim to CBMS-NRDB

After processing the CBMS Core Indicators using the Statistics Simulator (StatSim) and ensuring that the household IDs in the encoded file and digitized spot map match, the processed dataset can now be exported into the NRDB Pro in order to map the CBMS indicators.

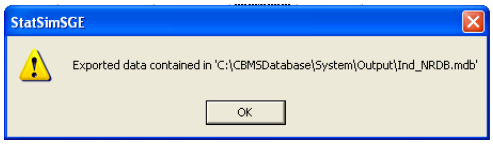
1. From the File menu, select **EXPORT.**
2. Select **Core Indicators for CBMS-NRDB.**



3. Select the following levels to process (whichever is applicable): Municipality, Barangay, Purok and Household.



4. Click **OK**. The following message box will appear:



You are now ready to map CBMS Core Indicators using the CBMS-NRDB.

Notes:

1. Every table need not to have its own exclusive indicator. For instance, proportion of households without access to safe water is distributed to several indicator tables: household, purok, barangay, municipality, province and region. Hence, you do not need to add an indicator whenever a new table must be made. You must link this table to the related indicator. (The above examples only exhibit the whole process).

2. Short names are important because the system uses this to make tables. Although it is arbitrarily set by users, this must be set such that it could tell what it contains.

3. You can tabulate *alphanumeric* columns. This means you could tabulate texts such as occupation, programs, perception, etc.

Some commonly-used abbreviations/acronyms (please see Annex 1 to view data dictionary and list of variable names)**:**

1. regn—Region code
2. prov—Province code
3. mun—Municipality code
4. brgy—Barangay code
5. purok—Purok code
6. hcn—household control number/ID
7. Prop—proportion
8. SWS—Safe water supply
9. STF—Sanitary toilet facility
10. Death05—Child death (0-5)
11. DeathPreg—Death due to pregnancy related causes
12. Maln05—Malnutrition
13. Squat—Squatters
14. MSH—Makeshift housing
15. Povp—Poverty
16. Subp—Subsistent poverty
17. Fshort—Food shortage
18. Unempl15ab—Unemployment (15 years old and above)
19. Elem612—Elementary participation (6-12)
20. HS1316—High school participation (13-16)
21. Sch616—School participation (6-16)

ANNEX 1: DATA DICTIONARY AND LIST OF VARIABLE NAMES

Table	Variable	Label
hpq_hh	rtype	(record type)
hpq_hh	urb	Urbanity
hpq_hh	regn	Region
hpq_hh	prov	Province
hpq_hh	mun	Muncipality/City
hpq_hh	brgy	Barangay
hpq_hh	purok	Purok
hpq_hh	hcn	Household ID Number
hpq_hh	interviewer	Interviewer
hpq_hh	respondent	Respondent
hpq_hh	addr_l1	Household address line 1
hpq_hh	addr_l2	Household address line 2
hpq_hh	int_date	Interview date
hpq_hh	int_mm	Interview Month
hpq_hh	int_dd	Interview Day
hpq_hh	int_yy	Interview Year
hpq_hh	start_hr	Starting hour
hpq_hh	start_min	Starting minute
hpq_hh	start_mer	Starting meridian
hpq_hh	end_hour	Ending hour
hpq_hh	end_min	Ending minute
hpq_hh	end_mer	Ending meridian
hpq_hh	qual_ass1	Quality assessment line 1
hpq_hh	qual_ass2	Quality assessment line 2
hpq_hh	expmemind	With expected family members
hpq_hh	nexpmem	Number of expected family members
hpq_hh	ofwind	OFW Indicator
hpq_hh	nofw	Number of OFW
hpq_hh	hhuniparind	Single-parent indicator
hpq_hh	nunipar	Number of Single-parent
hpq_hh	hhdisableind	With members with disability
hpq_hh	ndisabled	Number of members with disability
hpq_hh	nmem60ab	Number of members 60 years old and above
hpq_hh	hhboardpassind	Board passer indicator
hpq_hh	nboardpass	Number of board passers
hpq_hh	cure_sick	Received treatment/cure for sickness
hpq_hh	where_cure	Place where received cure
hpq_hh	where_cure_o	Other place where received cure
hpq_hh	ncouple	How many couples?
hpq_hh	prevmind	Any member who died?
hpq_hh	ndeath	How many deaths?
hpq_hh	water	Type of water facility
hpq_hh	water_o	Other types of water facility
hpq_hh	water_dist	Distance of water source
hpq_hh	toil	Type of toilet facility
hpq_hh	toil_o	Other types of toilet facility
hpq_hh	tenur	Tenure status of house/lot
hpq_hh	tenur_o	Other tenure status
hpq_hh	imprnt	Total imputed rent per month
hpq_hh	acrent	Total actual rent per month
hpq_hh	welec	Electricity Indicator
hpq_hh	elec_company	Electric company?
hpq_hh	elec_generator	Generator?
hpq_hh	elec_solar	Solar?
hpq_hh	elec_battery	Battery?
hpq_hh	elec_source_o	Others
hpq_hh	elec_source_o_lb	Other source
hpq_hh	elec_bill	Electric Bill

hpq_hh	radio	Own Radio/cassette
hpq_hh	tv	Own TV
hpq_hh	vplayer	Own VHS/VCD/DVD player
hpq_hh	stereo	Own Stereo/component
hpq_hh	karaoke	Own karaoke
hpq_hh	ref	Own ref
hpq_hh	efan	Own electric fan
hpq_hh	iron	Own electric iron
hpq_hh	stove	Own LPG/gas stove/range
hpq_hh	wmach	Own washing machine
hpq_hh	microw	Own microwave oven
hpq_hh	computer	Own computer
hpq_hh	celfone	Own cellphone
hpq_hh	telefone	Own Telephone
hpq_hh	airc	Own aircon
hpq_hh	sewmach	Own sewing machine
hpq_hh	car	Own vehicles
hpq_hh	wall	Construction materials of walls
hpq_hh	roof	Construction materials of roof
hpq_hh	cropind	Engaged in crop farming and gardening
hpq_hh	cropincsh	Total income from the activity (cash)
hpq_hh	cropinknd	Total income from the activity (kind)
hpq_hh	poultind	Engaged in livestock/poultry
hpq_hh	pouincsh	Total income from the activity (cash)
hpq_hh	pouinknd	Total income from the activity (kind)
hpq_hh	fishind	Engaged in fishing
hpq_hh	fishincsh	Total income from the activity (cash)
hpq_hh	fishinknd	Total income from the activity (kind)
hpq_hh	forind	Engaged in forestry
hpq_hh	forincsh	Total income from the activity (cash)
hpq_hh	forinknd	Total income from the activity (kind)
hpq_hh	salind	Engaged in wholesale/retail
hpq_hh	salincsh	Total income from the activity (cash)
hpq_hh	salinknd	Total income from the activity (kind)
hpq_hh	manind	Engaged in manufacturing
hpq_hh	manincsh	Total income from the activity (cash)
hpq_hh	maninknd	Total income from the activity (kind)
hpq_hh	servind	Engaged in community, social & personal service
hpq_hh	servincsh	Total income from the activity (cash)
hpq_hh	servinknd	Total income from the activity (cash)
hpq_hh	trnind	Engaged in transportation, storage & communicat
hpq_hh	trnincsh	Total income from the activity (cash)
hpq_hh	trninknd	Total income from the activity (kind)
hpq_hh	minind	Engaged in mining & quarrying
hpq_hh	minincsh	Total income from the activity (cash)
hpq_hh	mininknd	Total income from the activity (kind)
hpq_hh	cnsind	Engaged in construction
hpq_hh	cnsincsh	Total income from the activity (cash)
hpq_hh	cnsinknd	Total income from the activity (kind)
hpq_hh	eothind	Other activities NEC
hpq_hh	eoincsh	Total income from the activity (cash)
hpq_hh	eoinknd	Total income from the activity (kind)
hpq_hh	etotcsh	Total income from entrepreneurial activities (cash)
hpq_hh	etotknd	Total income from entrepreneurial activities (kind)
hpq_hh	freq_wage	Number of waged HH members
hpq_hh	wagcsh	Total income from salaries/wages (cash)
hpq_hh	wagknd	Total income from salaries/wages (kind)
hpq_hh	agscsh	Net share of crops (cash)
hpq_hh	agsknd	Net share of crops (kind)
hpq_hh	ofwcsh	Receipts from OFW (cash)
hpq_hh	ofwknd	Receipts from OFW (kind)

hpq_hh	supfcsh	Receipts from abroad (cash)
hpq_hh	supfknd	Receipts from abroad (kind)
hpq_hh	suprcsh	Receipts from domestic (cash)
hpq_hh	suprknd	Receipts from domestic (kind)
hpq_hh	rentvcsh	Rentals received (cash)
hpq_hh	rentvknd	Rentals received (kind)
hpq_hh	intrcsh	Interest earned (cash)
hpq_hh	intrknd	Interest earned (kind)
hpq_hh	pencsh	Pensions received (cash)
hpq_hh	penknd	Pensions received (kind)
hpq_hh	divcsh	Dividends (cash)
hpq_hh	divknd	Dividends (kind)
hpq_hh	othscsh	Other sources of income NEC (cash)
hpq_hh	othsknd	Other sources of income NEC (kind)
hpq_hh	othstotcsh	Total income from other sources (cash)
hpq_hh	othstotknd	Total income from other sources (kind)
hpq_hh	imprnttot	Total imputed rent
hpq_hh	totincsh	Total income (cash)
hpq_hh	totinknd	Total income (kind)
hpq_hh	totin	Total household income
hpq_hh	agriland_tenur	Tenure in agricultural land
hpq_hh	agriland_tenur_o	Other tenure in agricultural land
hpq_hh	agriland_area	Area of farm
hpq_hh	ncrop	Number of harvested crops
hpq_hh	livestock_produce	Livestock production
hpq_hh	meat_produce	Meat production
hpq_hh	milk_produce	Milk production
hpq_hh	egg_produce	Egg production
hpq_hh	cul_fishpond	Fishpond
hpq_hh	cul_fishcage	Fishcage
hpq_hh	cul_sea	Sea
hpq_hh	cul_marsh	Marsh
hpq_hh	cul_lake	Lake
hpq_hh	cul_river	River
hpq_hh	cul_stream	Stream/creek
hpq_hh	cul_other_place	Other
hpq_hh	cul_other_place_lb	Other place
hpq_hh	fishpond_area	Area of fishpond
hpq_hh	nfcage	Number of fish cage
hpq_hh	naquani	Number of aquatic animals
hpq_hh	own_fishboat	Own fishing boat
hpq_hh	garb_collect	Garbage collected
hpq_hh	garb_burn	Garbage burned
hpq_hh	garb_comp	Garbage composted
hpq_hh	garb_recycl	Garbage recycled
hpq_hh	garb_wsegr	Garbage segregated
hpq_hh	garb_cpit	Garbage dumped to closed pit
hpq_hh	garb_opit	Garbage dumped to open pit
hpq_hh	garb_mgt_o	Other waste management
hpq_hh	garb_mgt_o_lb	What waste management
hpq_hh	garb_collector	Garbage collector
hpq_hh	freq_garb_coll	How frequent is the garbage collection
hpq_hh	freq_garb_coll_o	Other frequency of collection
hpq_hh	calamind	Experienced man-made disasters/natural calamity
hpq_hh	fshort	Experienced food shortage
hpq_hh	fsmonth_1	Months of shortage_1
hpq_hh	fsdays_1	Number of days of shortage_1
hpq_hh	fsmonth_2	Months of shortage_2
hpq_hh	fsdays_2	Number of days of shortage_2
hpq_hh	fsmonth_3	Months of shortage_3
hpq_hh	fsdays_3	Number of days of shortage_3

hpq_hh	carpind	Received CARP program
hpq_hh	carprcv_mm	CARP Received - Month
hpq_hh	carprcv_dd	CARP Received - Day
hpq_hh	carprcv_yy	CARP Received - Year
hpq_hh	philhealthind	Received Philhealth for indigents?
hpq_hh	philhealthimplementor	Implementor
hpq_hh	philhealtheffect	Effect of the program
hpq_hh	philhealthrating	Effect rating
hpq_hh	infantsab2500g	All infants weigh more than 2.5 kilos
hpq_hh	da_doctor	Attended deliveries - doctor
hpq_hh	da_nurse	Attended deliveries - nurse
hpq_hh	da_midwife	Attended deliveries - midwife
hpq_hh	da_hilot	Attended deliveries - trained hilot/personnel
hpq_hh	da_other	Attended deliveries - others
hpq_hh	da_other_lb	Attended deliveries - others label
hpq_hh	infantsbreastfed	all infants exclusively breastfeed for 1st 4 month
hpq_hh	immunize_bcg	Immunization - BCG
hpq_hh	immunize_dpt1	Immunization - DPT 1
hpq_hh	immunize_dpt2	Immunization - DPT 2
hpq_hh	immunize_dpt3	Immunization - DPT 3
hpq_hh	immunize_opv1	Immunization - OPV 1
hpq_hh	immunize_opv2	Immunization - OPV 2
hpq_hh	immunize_opv3	Immunization - OPV 3
hpq_hh	immunize_hepa1	Immunization - Hepa 1
hpq_hh	immunize_hepa2	Immunization - Hepa 2
hpq_hh	immunize_hepa3	Immunization - Hepa 3
hpq_hh	immunize_measles	Immunization - Measles
hpq_hh	diarrhea	diarrhea episode
hpq_hh	ab15leftab10	left members 10 below w/o any adult 15 above
hpq_hh	examind	with members passed civil service/tesda exam
hpq_hh	nexam	Number of members passed civil service/tesda exam
hpq_hh	major_dialect	major dialect
hpq_hh	major_dialect_o	OIther major dialect
hpq_hh	hire_farm_worker	hire workers in the farm?
hpq_hh	nfw_land_prep	Land preparation
hpq_hh	nfw_planting	All planting
hpq_hh	nfw_crop_care	Care of crops
hpq_hh	nfw_harv	Harvesting
hpq_hh	nfw_post_harv	Post harvest activities
hpq_hh	nfw_food_proc	Food processing
hpq_hh	ntree	Number of type of trees
hpq_hh	petind	own pets
hpq_hh	pet_vaccine	pets vaccinated
hpq_hh	phsize	Preliminary household size
hpq_hh	hsize	Household size
hpq_hh	nmem01	Number of infants
hpq_hh	nmem04	Number of members 0-4 years old
hpq_hh	nmem06	Number of members 0-6 years old
hpq_hh	nmem08	Number of members 0-8 years old
hpq_hh	nmem09	Number of members 0-9 years old
hpq_hh	nmem05	Number of members 0-5 years old
hpq_hh	nmaln05	Number of malnourished members 0-5 years old
hpq_hh	nmem611	Number of members 6-11 years old
hpq_hh	nelem611	Number of mems 6-11 years old who are attending
hpq_hh	nmem612	Number of members 6-12 years old
hpq_hh	nelem612	Number of mems 6-12 years old who are attending
hpq_hh	nmem1215	Number of members 12-15 years old
hpq_hh	nhs1215	Number of mems 12-15 years old attending HS
hpq_hh	nmem1316	Number of members 13-16 years old
hpq_hh	nhs1316	Number of mems 13-16 years old attending HS
hpq_hh	nmem616	Number of members 6-16 years old

hpq_hh	nsch616	Number of mems 6-16 years old who are attending
hpq_hh	nmemcol	Number of members attending college
hpq_hh	nmemsch	Number of members attending school
hpq_hh	nmem10ab	Number of members 10 years old and above
hpq_hh	nliter10	Number of members who are literate
hpq_hh	nmem15ab	Number of members 15 years old and above
hpq_hh	nm15abwjob	Number of members 15 yrs above with job
hpq_hh	nmwjob	Number of members with job
hpq_hh	loc_long	Geographic location (Longitude)
hpq_hh	loc_long_deg	Geographic location (Longitude - degrees)
hpq_hh	loc_long_min	Geographic location (Longitude - minutes)
hpq_hh	loc_long_sec	Geographic location (Longitude - seconds)
hpq_hh	loc_lat	Geographic location (Latitude)
hpq_hh	loc_lat_deg	Geographic location (Latitude - degrees)
hpq_hh	loc_lat_min	Geographic location (Latitude - minutes)
hpq_hh	loc_lat_sec	Geographic location (Latitude - seconds)
hpq_mem	rtype	(record type)
hpq_mem	urb	Urbanity
hpq_mem	regn	Region
hpq_mem	prov	Province
hpq_mem	mun	Muncipality/City
hpq_mem	brgy	Barangay
hpq_mem	purok	Purok
hpq_mem	hcn	Household ID Number
hpq_mem	memno	Line number
hpq_mem	msname	Member surname
hpq_mem	mfname	Member first name
hpq_mem	reln	Relation to the HH reference person
hpq_mem	reln_o	Other relationship
hpq_mem	sex	Sex
hpq_mem	age_yr	Age in years
hpq_mem	age_mo	Age in months
hpq_mem	birth_date	Birth Date
hpq_mem	birth_mm	Birth Month
hpq_mem	birth_dd	Birth Day
hpq_mem	birth_yy	Birth Year
hpq_mem	birth_reg	Birth Registration
hpq_mem	civstat	Civil Status
hpq_mem	civstat_o	Other Civil Status
hpq_mem	relgn	Religion
hpq_mem	relgn_o	Other religion
hpq_mem	ipind	IP Indicator
hpq_mem	ipgrp	IP Group
hpq_mem	ipgrp_o	Other IP Group
hpq_mem	ylen_resid	Length in years of residency
hpq_mem	mlen_resid	Length in months of residency
hpq_mem	country_resid	Country of previous residence
hpq_mem	country_resid_o	Other country
hpq_mem	prov_resid_code	Provincial code of previous residence
hpq_mem	mun_resid_code	Municipality code
hpq_mem	brgy_resid_code	Barangay code
hpq_mem	mun_resid_txt	Municipality of previous residence
hpq_mem	brgy_resid_txt	Barangay of previous residence
hpq_mem	educind	Attended school
hpq_mem	gradel	Grade/Year code
hpq_mem	sch_type	Public or private
hpq_mem	educal	Educational attainment code
hpq_mem	sub_educal	Educational attainment subcode
hpq_mem	course_o	Other course
hpq_mem	literind	Literacy indicator
hpq_mem	orgind	Member of any community organization

hpq_mem	org_name_1	Name of organization 1
hpq_mem	org_type_1	Type of community organization 1
hpq_mem	org_type_o_1	Other type of community organization 1
hpq_mem	org_name_2	Name of organization 2
hpq_mem	org_type_2	Type of community organization 2
hpq_mem	org_type_o_2	Other type of community organization 2
hpq_mem	org_name_3	Name of organization 3
hpq_mem	org_type_3	Type of community organization 3
hpq_mem	org_type_o_3	Other type of community organization 3
hpq_mem	regvotind	Registered voter
hpq_mem	voted_last_election	Voted in last election
hpq_mem	mnutind	Nutrition status of members 0-5 years old
hpq_mem	jobind	Job/Work indicator
hpq_mem	occup	Occupation/economic activity
hpq_mem	g_occ	Occupation general code
hpq_mem	sub_occ_1	Occupation subcode 1
hpq_mem	sub_occ_2	Occupation subcode 2
hpq_mem	sub_occ_3	Occupation subcode 3
hpq_mem	indust	Business/industry
hpq_mem	sector	Sector code
hpq_mem	country_job	Country of economic activity
hpq_mem	country_job_o	Other country
hpq_mem	prov_job_code	Province code of economic activity
hpq_mem	mun_job_code	Municipal code of economic activity
hpq_mem	brgy_job_code	Barangay code of economic activity
hpq_mem	mun_job_txt	Municipality of economic activity
hpq_mem	brgy_job_txt	Barangay of economic activity
hpq_mem	jstatus	Job status
hpq_mem	workcl	Class of Worker
hpq_mem	fjob	Find job
hpq_mem	jsearch_meth	Job search method
hpq_mem	jsearch_meth_o	Other job search method
hpq_mem	ynotlookjob	Reasons why did not look for work
hpq_mem	ynotlookjob_o	Other reasons why did not look for work
hpq_mem	lastlookjob	Last time looked for work
hpq_mem	joppind	Had opportunity for work?
hpq_mem	wtwind	Willing to take up work?
hpq_wage	rtype	(record type)
hpq_wage	urb	Urbanity
hpq_wage	regn	Region
hpq_wage	prov	Province
hpq_wage	mun	Muncipality/City
hpq_wage	brgy	Barangay
hpq_wage	purok	Purok
hpq_wage	hcn	Household ID Number
hpq_wage	wage_line	Line number referenced to line number in member record
hpq_wage	wagcshm	Wage of a HH member (cash)
hpq_wage	wagkndm	Wage of a HH member (kind)
hpq_asset	rtype	(record type)
hpq_asset	urb	Urbanity
hpq_asset	regn	Region
hpq_asset	prov	Province
hpq_asset	mun	Muncipality/City
hpq_asset	brgy	Barangay
hpq_asset	purok	Purok
hpq_asset	hcn	Household ID Number
hpq_asset	asset_line	Line number
hpq_asset	asset	Asset
hpq_asset	owner_line	Line number of owner
hpq_crime	rtype	(record type)
hpq_crime	urb	Urbanity

hpq_crime	regn	Region
hpq_crime	prov	Province
hpq_crime	mun	Muncipality/City
hpq_crime	brgy	Barangay
hpq_crime	purok	Purok
hpq_crime	hcn	Household ID Number
hpq_crime	crime_line	Line number
hpq_crime	crimetype	Type of crime
hpq_crime	crimetype_o	Other crime
hpq_crime	crimeind	Crime indicator
hpq_crime	ctvicttot	Total victims
hpq_crime	ctvictmale	Total male victims
hpq_crime	ctvictfemale	Total female victims
hpq_death	rtype	(record type)
hpq_death	urb	Urbanity
hpq_death	regn	Region
hpq_death	prov	Province
hpq_death	mun	Muncipality/City
hpq_death	brgy	Barangay
hpq_death	purok	Purok
hpq_death	hcn	Household ID Number
hpq_death	death_line	Line number
hpq_death	deadsn	Surname
hpq_death	deadfn	First Name
hpq_death	mdeadsx	Sex
hpq_death	mdeadage	Age
hpq_death	mdeady	Cause of death
hpq_death	mdeady_o	Other cause
hpq_prog	rtype	(record type)
hpq_prog	urb	Urbanity
hpq_prog	regn	Region
hpq_prog	prov	Province
hpq_prog	mun	Muncipality/City
hpq_prog	brgy	Barangay
hpq_prog	purok	Purok
hpq_prog	hcn	Household ID Number
hpq_prog	prog_line	Line number
hpq_prog	progtype	Program Type
hpq_prog	progtype_o	Other program type
hpq_prog	progind	Program indicator
hpq_prog	progname	Program name
hpq_prog	progimplementor	Implementor
hpq_prog	progeffect	Effect of the program
hpq_prog	prograting	Effect rating
hpq_calam	rtype	(record type)
hpq_calam	urb	Urbanity
hpq_calam	regn	Region
hpq_calam	prov	Province
hpq_calam	mun	Muncipality/City
hpq_calam	brgy	Barangay
hpq_calam	purok	Purok
hpq_calam	hcn	Household ID Number
hpq_calam	calam_line	Line number
hpq_calam	calam_type	calamity
hpq_calam	calam_type_o	other calamity
hpq_calam	calam_type_ind	calamity indicator
hpq_ofw	rtype	(record type)
hpq_ofw	urb	Urbanity
hpq_ofw	regn	Region
hpq_ofw	prov	Province
hpq_ofw	mun	Muncipality/City

hpq_ofw	brgy	Barangay
hpq_ofw	purok	Purok
hpq_ofw	hcn	Household ID Number
hpq_ofw	ofw_line	Line number
hpq_ofw	ofwsn	OFW Surname
hpq_ofw	ofwfn	OFW First Name
hpq_ofw	ofw_reln	Relation to household head
hpq_ofw	ofw_reln_o	Other relation to hh reference person
hpq_ofw	ofw_occ	Occupation
hpq_ofw	ofw_occode	Occupation code
hpq_ofw	ofw_country	Country code
hpq_ofw	ofw_country_o	Other country
hpq_couple	rtype	(record type)
hpq_couple	urb	Urbanity
hpq_couple	regn	Region
hpq_couple	prov	Province
hpq_couple	mun	Muncipality/City
hpq_couple	brgy	Barangay
hpq_couple	purok	Purok
hpq_couple	hcn	Household ID Number
hpq_couple	couple_line	Line number
hpq_couple	husband_line	Husband line number refrenced to line number in member record
hpq_couple	wife_line	Wife line number refrenced to line number in member record
hpq_couple	fam_plan	Engage in family planning
hpq_couple	fp_meth	Family planning method
hpq_couple	fp_meth_o	Other family planning method
hpq_unipar	rtype	(record type)
hpq_unipar	urb	Urbanity
hpq_unipar	regn	Region
hpq_unipar	prov	Province
hpq_unipar	mun	Muncipality/City
hpq_unipar	brgy	Barangay
hpq_unipar	purok	Purok
hpq_unipar	hcn	Household ID Number
hpq_unipar	unipar_line	Line number referenced to line number in member record
hpq_unipar	unipar_why	Reason why solo parent
hpq_unipar	unipar_why_o	Other Reason why solo parent
hpq_boardpass	rtype	(record type)
hpq_boardpass	urb	Urbanity
hpq_boardpass	regn	Region
hpq_boardpass	prov	Province
hpq_boardpass	mun	Muncipality/City
hpq_boardpass	brgy	Barangay
hpq_boardpass	purok	Purok
hpq_boardpass	hcn	Household ID Number
hpq_boardpass	boardpass_line	Line number referenced to line number in member record
hpq_boardpass	boarpass_prof	Profession code
hpq_boardpass	boardpass_prof_o	Other profession
hpq_exam	rtype	(record type)
hpq_exam	urb	Urbanity
hpq_exam	regn	Region
hpq_exam	prov	Province
hpq_exam	mun	Muncipality/City
hpq_exam	brgy	Barangay
hpq_exam	purok	Purok
hpq_exam	hcn	Household ID Number
hpq_exam	exam_line	Line number referenced to line number in member record
hpq_exam	exam_type	Type of exam
hpq_exam	exam_type_ind	Exam indicator
hpq_handicap	rtype	(record type)
hpq_handicap	urb	Urbanity

hpq_handicap	regn	Region
hpq_handicap	prov	Province
hpq_handicap	mun	Muncipality/City
hpq_handicap	brgy	Barangay
hpq_handicap	purok	Purok
hpq_handicap	hcn	Household ID Number
hpq_handicap	handicap_line	Line number referenced to line number in member record
hpq_handicap	disability_1	Physical/mental disability 1
hpq_handicap	disability_o_1	Other disability 1
hpq_handicap	ydisability_1	Cause of disability 1
hpq_handicap	ydisability_o_1	Other cause 1
hpq_handicap	disability_2	Physical/mental disability 2
hpq_handicap	disability_o_2	Other disability 2
hpq_handicap	ydisability_2	Cause of disability 2
hpq_handicap	ydisability_o_2	Other cause 2
hpq_handicap	disability_3	Physical/mental disability 3
hpq_handicap	disability_o_3	Other disability 3
hpq_handicap	ydisability_3	Cause of disability 3
hpq_handicap	ydisability_o_3	Other cause 3
hpq_handicap	assist_ind	Received assistance?
hpq_handicap	assist_recvd	Assistance received
hpq_handicap	assist_src	Assistance source
hpq_handicap	assist_src_o	Other Assistance source
hpq_seniorcit	rtype	(record type)
hpq_seniorcit	urb	Urbanity
hpq_seniorcit	regn	Region
hpq_seniorcit	prov	Province
hpq_seniorcit	mun	Muncipality/City
hpq_seniorcit	brgy	Barangay
hpq_seniorcit	purok	Purok
hpq_seniorcit	hcn	Household ID Number
hpq_seniorcit	seniorcit_line	Line number referenced to line number in member record
hpq_seniorcit	withscid	With SCID
hpq_seniorcit	use_scid_1	Usage SC ID 1
hpq_seniorcit	use_scid_2	Usage SC ID 2
hpq_seniorcit	use_scid_3	Usage SC ID 3
hpq_expmem	rtype	(record type)
hpq_expmem	urb	Urbanity
hpq_expmem	regn	Region
hpq_expmem	prov	Province
hpq_expmem	mun	Muncipality/City
hpq_expmem	brgy	Barangay
hpq_expmem	purok	Purok
hpq_expmem	hcn	Household ID Number
hpq_expmem	expmem_line	Line number
hpq_expmem	expmemsn	Surname
hpq_expmem	expmemfn	First Name
hpq_expmem	expmemsex	Sex
hpq_expmem	expmemage	Age
hpq_expmem	expmemreln	Relation to household head
hpq_expmem	expmemreln_o	Other relation to hh reference person
hpq_expmem	expmemynotinhh	Why not present in the household
hpq_expmem	expmemynotinhh_o	Other reason why not present in the household
hpq_crop	rtype	(record type)
hpq_crop	urb	Urbanity
hpq_crop	regn	Region
hpq_crop	prov	Province
hpq_crop	mun	Muncipality/City
hpq_crop	brgy	Barangay
hpq_crop	purok	Purok
hpq_crop	hcn	Household ID Number

hpq_crop	crop_line	Line number
hpq_crop	croptype	Crop type
hpq_crop	croptype_o	Other type
hpq_crop	crop_vol	Quantity harvested (in kilo)
hpq_agriequip	rtype	(record type)
hpq_agriequip	urb	Urbanity
hpq_agriequip	regn	Region
hpq_agriequip	prov	Province
hpq_agriequip	mun	Muncipality/City
hpq_agriequip	brgy	Barangay
hpq_agriequip	purok	Purok
hpq_agriequip	hcn	Household ID Number
hpq_agriequip	agriequip_line	Line number
hpq_agriequip	agriequiptype	Equipment
hpq_agriequip	agriequiptype_o	Other equipment
hpq_agriequip	agriequipind	Equipment indicator
hpq_agriequip	agriequip_owned	Owner
hpq_lstock	rtype	(record type)
hpq_lstock	urb	Urbanity
hpq_lstock	regn	Region
hpq_lstock	prov	Province
hpq_lstock	mun	Muncipality/City
hpq_lstock	brgy	Barangay
hpq_lstock	purok	Purok
hpq_lstock	hcn	Household ID Number
hpq_lstock	lstock_line	Line number
hpq_lstock	lstocktype	Type of livestock
hpq_lstock	lstocktype_o	Other type of livestock
hpq_lstock	lstockind	Livestock indicator
hpq_lstock	nlstock	How many
hpq_fcage	rtype	(record type)
hpq_fcage	urb	Urbanity
hpq_fcage	regn	Region
hpq_fcage	prov	Province
hpq_fcage	mun	Muncipality/City
hpq_fcage	brgy	Barangay
hpq_fcage	purok	Purok
hpq_fcage	hcn	Household ID Number
hpq_fcage	fcage_line	Line number
hpq_fcage	fcage_area	Area
hpq_aquani	rtype	(record type)
hpq_aquani	urb	Urbanity
hpq_aquani	regn	Region
hpq_aquani	prov	Province
hpq_aquani	mun	Muncipality/City
hpq_aquani	brgy	Barangay
hpq_aquani	purok	Purok
hpq_aquani	hcn	Household ID Number
hpq_aquani	aquani_line	Line number
hpq_aquani	aquanitype	Type
hpq_aquani	aquanitype_o	Other type
hpq_aquani	aquani_vol	Volume harvested
hpq_aquaequip	rtype	(record type)
hpq_aquaequip	urb	Urbanity
hpq_aquaequip	regn	Region
hpq_aquaequip	prov	Province
hpq_aquaequip	mun	Muncipality/City
hpq_aquaequip	brgy	Barangay
hpq_aquaequip	purok	Purok
hpq_aquaequip	hcn	Household ID Number
hpq_aquaequip	aquaequip_line	Line number

hpq_aquaequip	aquaequiptype	Equipment
hpq_aquaequip	aquaequiptype_o	Other equipment
hpq_aquaequip	aquaequipind	Equipment indicator
hpq_aquaequip	aquaequip_owned	Owned
hpq_tree	rtype	(record type)
hpq_tree	urb	Urbanity
hpq_tree	regn	Region
hpq_tree	prov	Province
hpq_tree	mun	Muncipality/City
hpq_tree	brgy	Barangay
hpq_tree	purok	Purok
hpq_tree	hcn	Household ID Number
hpq_tree	tree_line	Line number
hpq_tree	tree_type	Type
hpq_tree	tree_type_o	Other type
hpq_tree	tree_area	Area
hpq_tree	tree_vol	Volume harvested

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