Système de Tabulation Généralisé

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What is GTAB?

Integrated approach for creating tabular data at Statistics Canada

With Social Surveys & Administrative data in mind the GTAB is a system that automates and standardizes the way we:

- Manage and specify tables for dissemination
- Calculate statistics and associated quality indicators
- Apply confidentiality
- Apply standard formats for output and dissemination
Users and Uses

- Survey analysts use the GTAB to produce pre-release analytical tables.
- Production officers use the GTAB to produce tables to be loaded into CANSIM
- Client Services Officers use the GTAB to answer custom tabulation requests
Elements of the GTAB: GUI

Graphical User Interface

- Table Management & batch submission
- Data/Survey management (i.e. Survey Profile)
- Metadata connection to SSME
- New dissemination environment SSDE
- User access control
- Table specifications flow
- Generates XML set of parameters for further processing
SAS based series of macros developed to generate statistics and quality indicators for household surveys

- Frequencies
- Percent Distributions
- Proportions
- Shares
- Ratios
- Gini Coefficient
- Means
- Medians
- Percentiles
- Quality Indicators created based on bootstrap weights
- Statistics generated for non-bootstrap weight surveys and administrative data files.
- Runs on a dedicated SAS server
Elements of the GTAB: Confidentiality Module

Another series of SAS based macros developed to apply confidentiality rules in an automated fashion.

- Frequencies
- Percent Distributions
- Proportions
- Shares
- Ratios
- Controlled Rounding
- Bound variation
- Primary cell suppression
- Cell size limitations

- Gini Coefficient
- Means
- Medians
- Percentiles

Another series of SAS based macros developed to apply confidentiality rules in an automated fashion.
Current formatting of outputs is very basic.

- Logs and outputs are returned to the user in SAS.
- Option available to output the information in a format for loading into CANSIM.
- Investigating options to automate formatting to specific templates for custom requests.
Next steps

• Additional specifications for statistics
  ▪ Moving averages
  ▪ Rates
  ▪ Percent change & trend analysis
  ▪ Quintile statistics

• Automate confidentiality for additional statistics

• Confidentiality rules for Administrative data statistics