Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Department of Home Affairs FDHA
Federal Statistical Office FSO

FSO Quality Report

06 Industry and services

Neuchâtel, December 2018

Structural business statistics quality report 2015

The Federal Statistical Office (FSO) publishes on its website quality reports providing information about the methodology and the definitions used as well as on the quality of the statistical results, thus facilitating interpretation and understanding. The reports are produced first and foremost in order to meet the requirements of Eurostat. For this reason they are only compiled for a limited number of statistics.

The concept of the quality reports is based on the European Statistics System's (ESS) concept of quality contained in the European Statistics Code of Practice.

Statistical presentation

Data description

Structural business statistics (SBS) describes the structure, conduct and performance of economic activities, down to the most detailed activity level (several hundred economic sectors).

SBS covers all activities of the non-financial business economy with the exception of agricultural activities and personal services. Limited information is available on banking, insurance and pension funds.

 Main characteristics (variables) of the SBS data category:

- Business demographic variables (e.g. Number of enterprises)
- "Output related" variables (e.g. Turnover, Value added)
- "Input related" variables: labour input (e.g. Employment, Hours worked); goods and services input (e.g. Total of purchases); capital input (e.g. Material investments)

Classification system

Statistical Classification of Economic Activities in the European Community (NACE): NACE Rev.1 was used until 2001, NACE Rev. 1.1 since 2002, and NACE Rev 2 is used from 2008 onwards. Key data were double reported in NACE Rev.1.1 and NACE Rev.2 for 2008. From 2009 onwards, only NACE Rev.2 data are available.

The regional breakdown of the EU Member States is based on the Nomenclature of Territorial Units for Statistics (NUTS). Detailed information about the consecutive NUTS Regulations can be found at Eurostat's website

The product breakdown is based on the Classification of Products by Activity (CPA) as stated in the Regulation establishing CPA 2008 and its amending Commission Regulation (EU) No 1209/2014 (from reference year 2015 onwards)

Sector coverage

The SBS coverage was limited to Sections C to K of NACE Rev.1.1 until 2007. Starting from the reference year 2008 data is available for Sections B to N and Division S95 of NACE Rev.2.

Statistical concepts and definitions

The statistical characteristics are defined in Annex I of [Commission Regulation (EC) No 250/2009](#)

Statistical unit

Entreprise (legal units)

Statistical population

Survey Concept:	Sample survey combined with administrative information
Survey:	Stratified
Stratification criteria:	Activity (NACE-2digit) and Employement size clas
Threshold value:	cut off number of persons employed >= 3
Statistical Population (SBS CH-Population)	142'775
Sample size:	19'271
Responses:	12'556
administrative sources:	SFO Business Register (Activity Code, Size of Firm, number of employees, legal Form)
The extent to which the administrative source are used:	• Data source for imputation in case of non-response • Data source for calibration (calage sur marge) to optimize inference from survey results
Variable used for identifying principal activitiy:	Full time equivalent (up down the NACE 2-digit)
Frequency of updating the unit's pricipal activity:	• Profiling are every quarterly updated • The 25% of Non-Profiling are yearly updated, in order to have the actualization of 100% of the frame every 4 years
Frequency of updating business register:	• New Register Enterprise: yearly • Deleting Register Enterprise: yearly • Number of employed: yearly

Reference area

Switzerland

Time coverage

1998-2015

Base period

Not applicable.

Unit of measure

> **Definition**
>
> The unit in which the data values are measured.

- Number of enterprises and number of local units are expressed in units.
- Monetary data are expressed in thousands of CHF (converted from SBS into EUR)
- Employment variables are expressed in units.
- Per head values are expressed in thousands of CHF per head. (converted from SBS into EUR)

Ratios are expressed in percentages.

Reference period

> **Definition**
>
> The period of time or point in time to which the measured observation is intended to refer.

2015

Institutional mandate

> **Definition**
>
> Set of rules or other formal set of instructions assigning responsibility as well as the authority to an organisation for the collection, processing, and dissemination of statistics.

Legal acts and other agreements

Year 1995 was the first year for the implementation of the Council Regulation No 58/97 (SBS Regulation).

The Council Regulation No 58/97 has been amended three times: by Council Regulation No 410/98, Commission Regulation No 1614/2002 and European Parliament and Council Regulation No 2056/2002. As a new amendment of the basic Regulation it was decided to recast the Regulation No 58/97 in order to obtain a new "clean" legal text. The European Parliament and Council Regulation No 295/2008 was adopted on 14/02/2008 and the provisions of this Regulation are applicable from the reference year 2008. Regulation No 295/2008 has been amended by Commission Regulation (EU) No 446/2014.

Data sharing

Not applicable.

Confidentiality

> **Definition**
>
> A property of data indicating the extent to which their unauthorised disclosure could be prejudicial or harmful to the interest of the source or other relevant parties.

Confidentiality - policy

Internal paper

Confidentiality - data treatment

- Dominance Turnover > 60% (B-Flag)
- Number of Observation > 5 (A-Flag)

Frequency of dissemination

> **Definition**
>
> The time interval at which the statistics are disseminated over a given time period.

Annual

Accessibility and clarity

Definition

The conditions and modalities by which users can obtain, use and interpret data.

News release

Regular no new release

Publications

- Statistical yearbook
- Thematic publications

On-line database

[Publication: Value added statistics](#)

Micro-data access

Any

Other

Any

Documentation on methodology

- [Methodological report](#)
- [Methodological Report Revision 2009](#)

Quality documentation

internal paper

Quality management

Definition

Systems and frameworks in place within an organisation to manage the quality of statistical products and processes.

Quality assurance

[Code of Practice](#)

Quality assessment

Good

Relevance

Definition

The degree to which statistical information meet current and potential needs of the users.

User needs

- National Accounts
- Central Banks
- Other Federal Departments

- Entreprises
- University

User satisfaction

Any particular action regarding users satisfaction

Completeness

Confirm to SBS Technical disclosure

Accuracy and reliability

> **Definition**
>
> Closeness of computations or estimates to the unknown exact or true values that the statistics were intended to measure. Reliability of the data, defined as the closeness of the initial estimated value to the subsequent estimated value.

Sampling error

Coffecients of Variation: CV computations (Horvitz-Thompson variance)

Non-sampling error

Methods used for taking into account the unit non -response:

- Weighting: Correction non-response + calibration
- Imputation: BigOne Missing + Consolidated Group responses

Mesures taken for minimising the unit non-response:

- BigOne Listing
- two reminders
- one last telephone reminder

Method use for Quality Review purpose:

- number of persons employed

Bias:

- Potential Bias coming from Robustification and non-response
- Small bias (with a limited effect in the overall accuracy) of the estimate

Impact of the imputation:

- Not important

Coverage errors - Frame:

- Low

Out-of-scope units:

- For each survey's year is used an updated sampling frame and an updated sample. Assuming that the sampling frame is correct, this method should almost avoid to have out-of scope units.

Timeliness and punctuality

Timeliness

- Data-collection: T14
- Dissemination in the country: T18

Punctuality

any

Coherence and comparability

> **Definition**
>
> Adequacy of statistics to be reliably combined in different ways and for various uses and the extent to which differences between statistics can be attributed to differences between the true values of the statistical characteristics.

Comparability - geographical

Comparability - over time

2009-2015

Coherence - cross domain

- Number of enterprises in the business register
- Production value of Prodcom
- Value added of national accounts
- Evolution of turnover and persons employed from short term statistics
- Other (please specify)

Data revision

> **Definition**
>
> Any change in a value of a statistic released to the public.

Data revision - policy

Internal Paper

Data revision - practice

last revision on 2009

Statistical processing

Source data

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Frequency of data collection

Annual data collection

Data collection

Questionnaires used:	5 types of qustionnaries used
Response Channel:	Paper, electonical paper (eSurvey)
Survey procedure:	All respondants contacted with a paper-letters with questionnaires-papers included
Survey cycle:	1) Written-Invitation to participate
	2) First remind (written)
	3) Second remind (written)
	4) Third remind - Phone call to all missing units

Data validation

Validation rules:	
eSurvey - Respondents rules outside production Databank	First check rules are directly done at the respondent level, before the questionnaire upload into Databank
Paper - Respondents rules into production Databank	Second check rules are directly done after upload Databank
Phone call to respondents	in order to validate if data's are not consistent
Micro data's rules	
checked-out paper	Overview after validation with t-1 values (if existing)
Periodical check micro data's	3-time every year for global plausibility
Macro data's rules	
Extrapolated and Not-extrapolates check	
Final Plausibility check	

Data compilation

- Consolidated Group Responses: split by proportional number of persons employed
- BigOne Missing: based on previous year data
- Structural Missing due to enterprise size (Regression Model in order to transform reduced questionnaire into detailed questionnaire)

Adjustment

Metadata update

> **Definition**
> The date on which the metadata element was inserted or modified in the database.

Metadata last certified

30/03/2018

Metadata last posted

30/03/2018

Metadata last update

30/03/2018

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