

INSTRUCTION ON METHODS AND PRINCIPLES REGARDING REVISIONS ON STATISTICAL DATA PRODUCED BY TURKISH STATISTICAL INSTITUTE

PART ONE

Purpose, Coverage, Foundation and Definitions

Purpose

ARTICLE 1- (1) This Instruction is prepared with the purpose of defining the methods and principles to be required in releasing revision policies and in publishing statistics, revised after being produced and published by Turkish Statistical Institute in the context of Official Statistical Programme.

Coverage

ARTICLE 2- (1) The provisions in this Instruction cover the statistics produced by Turkish Statistical Institute in the context of Official Statistical Programme.

ARTICLE 3- (1) The regulations carried out in the situations when errors are identified in published data are excluded from the coverage of this Instruction. The correction of errors in the process of statistical production is identified by “Instructions on Methods and Principles Regarding the Correction of Errors in Statistical Data and Information” published by Turkish Statistical Institute.

(2) Statistics produced by international comparison programmes (Purchasing power parity, etc.) are excluded from the coverage of this Instruction.

Foundation

ARTICLE 4- (1) This Instruction has been prepared based on the 4th article of Statistics Law of Turkey dated 10/11/2005 and numbered 5429.

Definitions

ARTICLE 5- (1) In the implementation of this Instruction, the terms used herein shall refer to the following;

- a) President: The President of Turkish Statistical Institute,
- b) Presidency: The Presidency of Turkish Statistical Institute,
- c) Current Revision Plan: The table presenting the revision policies of the news bulletins published within the Institution as a whole,
- d) Preliminary results: Statistics prepared and published with more general information in order to inform the public sooner due to the stipulated form determined by international methodology and regulations of the regarding statistical field and/or late incoming of administrative records,
- e) Revision History: The table consisting of major revisions in the statistics published within the Institution implemented between 1989 and the current year
- f) News bulletin: The communique showing briefed statistical results, published periodically (monthly, quarterly, semi-annually, annually, etc.) or aperiodically by the statistical production units of Presidency in order to declare to the public.
- g) Error: Any error in published data or information identified in “Instructions on Methods and Principles Regarding the Correction of Errors in Statistical Data and Information”
- h) Official Statistics Programme: The programme prepared for five year periods based on 3rd article of Statistics Law of Turkey numbered 5429, aiming to identify the fundamentals and standards regarding to the production and publication of official statistics, to ensure the production of reliable, timely, transparent and impartial data required at national and international level,
- i) Revision: Updating on a published statistical data except for error correction,
- j) Producing unit: Departments responsible for data production.

PART TWO

Factors Causing Revision in Statistical Data and Revision Types

Causes of revision

ARTICLE 6- (1) Factors causing revision in statistical data are defined below.

- a) **Changes in base year and reference year:** Changes in the weighting system of the index that occur because of statistics produced at certain intervals (For example alterations in the national accounts system due to the updating of input-output tables, alterations in short term business statistics and alterations in labour cost index due to the renewal of labour cost survey, etc.). These consist of reflecting the structural changes in economics on calculated statistics and generating more up-to-date weight structures using new methodologies.
- b) **Benchmarking:** Ensuring consistency within the quarterly or monthly data set based on the final annual data set.
- c) **Late incoming reports:** Respondent alterations after the publication on data collected monthly, quarterly, semi annually from businesses, from administrative records or imputed using statistical techniques in the stage of data processing.
- d) **Changes in seasonal and calendar effects adjusted data:** Continuous change in data inconsequence of model-based method used for adjusting effects resulting from seasonal changes and/or number of working days in a month.
- e) **Changes in classifications, definitions and coverage:** Differences sourced by changes in classifications and definitions (although convertible) and changes in coverage.
- f) **Changes in methodology, implementation and questionnaire structure:** The changing of methodology, implementation and structure of content and answer choice.
- g) **Changes in data source:** Changes made due to the revision of statistics used as an input to another statistics (For example, revisions on household statistics due to changes in population projections).
- h) **Legal regulations:** Changes in data in case of a change in information founded on legislation and used in statistical production. For example changes in administrative division.

Revision types

ARTICLE 7- (1) Types of revision on statistical data are defines below.

- a) **Routine revisions:** Revisions sourced by factors mentioned in the 6th article of this Instruction, namely benchmarking, late incoming reports and changes in seasonal and calendar effects adjusted data.
- b) **Major revisions:** Revisions sourced by factors mentioned in the 6th article of this Instruction, namely changes in base year and reference year, changes in classifications, definitions and coverage, changes in methodology, implementation and questionnaire structure, changes in data source and legal regulations.

PART THREE

Methods and Principles Regarding the Implementation of Revisions

Routine revision implementations

ARTICLE 8- (1) For statistics published more frequently than annual, the routine revision implementations are divided into three sections such as enterprise, household and administrative registers by data source type.

(2) For surveys that data source is enterprise/local unit; in the case of routine revision on monthly statistics, previous month is revised when publishing monthly data as whole year is revised when publishing last data of the year. In the case of routine revisions for quarterly statistics previous quarter is revised when publishing quarterly data as whole year is revised when publishing last data of the year.

(3) Routine revision is not implemented on the non-adjusted data of surveys where the data source is households.

(4) Routine revision is not implemented on price indices.

Special cases in implementations of routine revisions

ARTICLE 9- (1) (2) In the context of United Nations Framework Convention on Climate Change, due to changes in methodology and parameters, on which the calculation of National GreenHouse Gas Emissions Inventory is based on, the series is revised as a whole starting from the convention base year.

(3) Future revisions of population projections are implemented in case of the following:

- a) From the base year on the compliance rate between projections and administrative data falls below 99% in total population of Turkey or below 95% in any of the total population of NUTS 2 regions or below 99% in total 15-64 aged population of Turkey which is used in the weighting process of household surveys
- b) If the above mentioned conditions do not occur revisions are implemented once in every 5 years.

Implementations of major revisions

ARTICLE 10- (1) As major revisions are extensive revisions, they require an optimization taking the frequency, size and coverage of the revision into account. For this reason, it is essential to be done at once by considering all other possible revisions.

(2) Both revised and non-revised versions of the data are monitored by the producer unit for at least one year to measure the effects of factors mentioned in the 6th article of this Instruction, except for legal regulations. After determining this effect, it is decided to be revised or not (For example; tracking the changes in household labour force survey by simultaneous implementation and double coding in business statistics)

(3) In case of an average absolute percentage revision size of 1% or below calculated for revision length and depth determined in the revision information form, major revisions are implemented but not announced to the public.

(4) In order to ensure the consistency of the time series of data, the data produced according to the previous definition is backcasted to be aligned with the revised data. If information in accordance with the revision definition is obtainable from previous year's data set, then backcasting with micro technique would be carried out. In cases which information in accordance with the revision definition is not obtainable backcasting is carried out by macro or model based techniques. In the backcasting process, producing unit takes view of Departments and Sampling and Analysis Techniques Department.

Revisions on seasonal and calendar adjusted data

ARTICLE 3- (1) In seasonal and calendar adjusted data; model, filters, outliers and suitable calendar data are determined by Sampling and Analysis Techniques Department. Parameters and factors are re-estimated for each and every news bulletin period all the following year round. Because of the changes sourced by the re-estimation of seasonal and calendar factors, seasonal and calendar adjusted data is revised, for the current year and 3 years prior to that. The size of the revision is measured by the producing unit in accordance with the 12th article of this Instruction.

PART FOUR

Methods and Principles Regarding Measurement and Publication of Revision Sizes

Measurement of revision sizes

ARTICLE 12- (1) The effects of routine and major revisions on data are defined as absolute percentage revision and average absolute percentage revision sizes as mentioned in (a) and (b) items and measured by producing unit.

- a) Absolute Percentage Revision: Size of the revision on a level value of any statistical observation is defined as “percentage revision” by means of dividing the absolute value of the difference between the published value and revised value by the revised value and turning the division into percentage. The absolute value of the difference between the published and revised value of statistics defined as proportions or percentages is called “absolute revision”.
- b) Average Absolute Percentage Revision: Size of the revision by time on a value of any statistical observation is defined as average absolute percentage revision by means of taking the arithmetic mean of revisions calculated in item (a).

Publication of revision sizes

ARTICLE 13- (1) Revision sizes are published in the revision measurement table showing the change between the value of data on the first date of publication and last value. Revision measurement table is prepared by taking matters covered in Handbook of Revision Policy, given in the Appendix-2, into account.

(2) Revision measurement table regarding routine revisions is published as enclosed to the news bulletin on each and every news bulletin period.

PART FIVE

Methods and Principles on Documentation and Publication of Revision Information

Publication of revision information form and methodological document

ARTICLE 14- (1) “Revision Information Form” given in the Appendix-1 of this Instruction is the document that defines the revisions on statistical data by causes of revision, publishing date, length and depth (level) of revision. The preparation of “Revision Information Form” is the responsibility of the producing unit.

(2) In the preparation of “Revision Information Form”, used as a guide given in the Appendix-2, the matters indicated in the “Handbook of Revision Policy” are taken into consideration. Sampling and Analysis Techniques Department carries out the duty of ensuring the timeliness of the content of “Handbook of Revision Policy” and the standardization of revision policy.

(3) The “Methodological Document” contains the details of the causes of major revisions, table and graphical comparisons of revised and non-revised data and the table showing major revision sizes measured as defined in the 12th and 13th articles of this Instruction and (if applied) backcasting methodology used. The contents to be included in the “Methodological Document” are covered by “Handbook of Revision Policy”. Preparation of the “Methodological Document” is the responsibility of the producing unit.

(4) The producing unit prepares the “Revision Information Form” for each statistics within the period defined in Appendix-1 of this Instruction. Prepared forms are sent to Sampling and Analysis Techniques Department to be checked. Subsequently, Presidential approval is received by the producing unit for publication of Revision information form.

(5) In case of planning a change in “Revision Information Form”, producing unit, prior to the preparation of the National Data Release Calendar, sends modified “Revision Information Form” for control to Sampling and Analysis Techniques Department in November of each year. Subsequently, Presidential approval is taken by producing unit for the publication of the revision information form.

(6) Producing units, which are to implement major revisions in relevant year's National Data Dissemination Calendar period, receive the opinion of Sampling and Analysis Techniques Department for the "Methodological Document" they have prepared before a month of major revision published. Afterwards to publish major revisions with "Methodological Document", Presidency approval is taken by producing unit.

(7) "Current Revision Plan" is published by statistical topics on the Turkish and English official websites of the Presidency on the last week of January each year, updated in accordance with current revision policies, revision information forms and major revision plans. "Revision History" is updated in accordance with the actualization of major revisions covered in "Current Revision Plan" and published on the last week of January each year. Sampling and Analysis Techniques Department is responsible for the execution of the process mentioned in this article.

(8) "Methodological Document" is published as enclosed to the news bulletin when revised data is published for once and also under the metadata of the relevant statistics continuously.

PART SIX

Methods and Principles Regarding the Publication of Revised Data

Publication of revised data

ARTICLE 4- (1) Revised data is shown with an (r) symbol in current news bulletin, in books to be published as pressed or in electronical media and in static tables if applicable and explanation regarding the revision takes place below the statistical table as a footnote. In order to inform users in case of a major revision, entering the dissemination database a pop-up notice is made. The notice text is prepared by taking the matters in Handbook of Revision Policy into account. Revision is reflected neither on previously published books (pressed and/or as electronical media) nor on tables given enclosed to previous news bulletins.

(2) Data affected by routine revision is published with the approval of President on news bulletin periods of which publication dates are identified in National Data Dissemination Calendar. Data affected by major revision, they are published defined in "Revision Information Form" with the approval of President. The users are informed on both Turkish and English official websites of Presidency with a public announcement, at least one day prior to the publication of data affected by major revisions.

(3) Backcasted time series of data, on which major revision is implemented, is published as a static table enclosed to the news bulletin for once only and for following periods it is continued to be published in the database. For statistics not published in news bulletins, backcasted time series are shared with public through static tables and/or database.

Coordination of revisions and sharing of data that not updated

ARTICLE 5- (1) Producing units make notifications in the event of major revision in the process taking into account that other producing units also will be affected.

(2) Tables representing only the period of publication and having no comparability in consequence of a major revision are published Turkish and English official websites of Presidency as accessible to users.

Revisions excluded in revision information form

ARTICLE 6- (1) Unforeseen but essential major revisions, that does not take place in "Revision Information Form", are determined with President's approval and at least one day prior to its publication the users are informed on both Turkish and English official websites of Presidency with a public announcement as well as by updating revision information under metadata of relevant statistics, in "Revisions" section and "Current Revision Plan" section on the web page of the Presidency.

PART SEVEN

Final Provisions

Enforcement

ARTICLE 7- (1) This Instruction becomes valid with the approval of President of Turkish Statistical Institute.

Execute

ARTICLE 8- (1) The provisions of this Instruction are exercised by the President.

Appendix-1. Turkish Statistical Institute Revision Information Form

Revision Information Form		First Publication Date	
		Date of Update	
Title of Press Release			
Period of Publication			
Routine Revision	Applicable/Non-applicable		
Causes of Revision	<input type="checkbox"/> Late incoming reports <input type="checkbox"/> Benchmarking <input type="checkbox"/> Changes in seasonal and calendar effects adjusted data		
Revision Publication Date			
Length of Revision	Unadjusted Data	Seasonal and Calendar Effects Adjusted Data <i>11th Article in the Instruction</i>	
	<input type="checkbox"/> Last one month <input type="checkbox"/> Last one quarter <input type="checkbox"/> Last six months <input type="checkbox"/> Last one year <input type="checkbox"/> Longer (<i>Please specify</i>)		
Depth of Revision (Level)	Classification:		
	Break-down to be revised:		
Revision Policy of Statistical Tables Published under this Press Release (If it is different)			
Major Revision	Applicable/Non-applicable		
Causes of Revision	<input type="checkbox"/> Changes in base year and reference year <input type="checkbox"/> Changes in classifications, definitions and coverage <input type="checkbox"/> Changes in methodology, implementation and questionnaire structure <input type="checkbox"/> Changes in data source <input type="checkbox"/> Legal regulations		
Revision Publication Date			
Length of Revision			
Depth of Revision (Level)	Classification:		
	Break-down to be revised:		