

**Documentation of statistics for  
Aviation 2015**

## **1 Introduction**

The aviation statistics sheds light on investments in the airports' infrastructure and on the development of transport of goods and passengers through Danish airports.

The present aviation statistics were established in 1997. Previously aviation statistics were published only in summary form in *Statistical Yearbook*.

## **2 Statistical presentation**

The Aviation statistics describe annually investments in the infrastructure and quarterly and annually the development in air transport of passengers and goods through Danish airports.

Quarterly figures on passengers are seasonally adjusted.

Statistics are compiled for domestic and international flights and subdivided into scheduled flights, non scheduled flights (charter and taxi flights) and other flights.

### **2.1 Data description**

The statistics contain information on flights in public Danish airports. The information covers the number of passengers, amount of goods, direction of the flight, country of origin or destination, national or international flight and the type of flight, e.g. scheduled flights.

### **2.2 Classification system**

Countries are categorized using the international standard ISO 3166-1 alfa.2.

Other classifications are defined as in the European legislation.

### **2.3 Sector coverage**

Goods and passenger transport by air.

### **2.4 Statistical concepts and definitions**

Scheduled flight: Commercial, regular air traffic, which normally takes place according to a timetable.

Charter flight: Commercial non-regular public air transport, including taxi flight.

### **2.5 Statistical unit**

The statistical unit in dissemination is the airport.

### **2.6 Statistical population**

Aviation.

## **2.7 Reference area**

The statistics covers flights using public airports in Denmark.

## **2.8 Time coverage**

The statistics has been produced in the current format since 1997.

## **2.9 Base period**

Not applicable.

## **2.10 Unit of measure**

Persons (for passengers) and tonnes (for goods).

## **2.11 Reference period**

The reference period is either a full quarter (quarterly statistics) or a full calendar year (yearly statistics).

Outbound flights are determined by departure time and inbound by the arrival time. Round trips by the departure time.

## **2.12 Frequency of dissemination**

Annually since 1997.

Both annual and quarterly since 2000.

## **2.13 Legal acts and other agreements**

Data are collected by the Danish Transport Authority as part of their monitoring role for aviation and airports.

Data are submitted to Eurostat by the Danish Transport Authority according to EU legislation:

- Regulation (EC) No 437/2003 of the European Parliament and of the Council of 27 February 2003 on statistical returns in respect of the carriage of passengers, freight and mail by air.
- Commission Regulation (EC) No 1358/2003 of 31 July 2003 implementing Regulation (EC) No 437/2003 of the European Parliament and of the Council on statistical returns in respect of the carriage of passengers, freight and mail by air.
- Commission Regulation (EC) No 546/2005 of 8 April 2005 adapting Regulation (EC) No 437/2003 of the European Parliament and of the Council as regards the allocation of reporting-country codes and amending Commission Regulation (EC) No 1358/2003 as regards the updating of the list of Community airports.

## **2.14 Cost and burden**

The response burden is not calculated.

## **2.15 Comment**

There is a general page for the subject of [transport statistics](#).

## **3 Statistical processing**

Data from the Danish Transport Authority are wholly covering the population and no imputation is made.

Data on passengers are seasonally adjusted.

### **3.1 Source data**

Data are collected monthly from the airports by the Danish Transport Authority (previous Danish Civil Aviation Administration) as part of the duties as monitoring authority.

### **3.2 Frequency of data collection**

Data are collected monthly by the Danish Transport Authority and submitted to Statistics Denmark quarterly.

### **3.3 Data collection**

Statistics Denmark receives an extract of the database at the Danish Transport Authority.

### **3.4 Data validation**

The data is checked for significant deviations at airport level compared to previous periods.

No imputation is done since data coverage is complete.

### **3.5 Data compilation**

There is no actual data compilation

### **3.6 Adjustment**

There is no adjustments done

## **4 Relevance**

The statistics are used widely by e.g. news media, the air ports themselves, ministries, etc. and it is therefore the impression that the statistics are relevant to users.

### **4.1 User Needs**

The main users are the EU Commission, Danish ministries, business organizations and private enterprises.

The statistics are mostly used for monitoring the market, deciding on transport policies, and plan for investments in infrastructure.

### **4.2 User Satisfaction**

No information on user satisfaction is collected and there is rarely feedback from users.

The user contact that occurs shows that the statistics are used widely by news media, the air ports, ministries, etc. and it is the impression that the easy access to data in <http://www.Statbank.dk> is appreciated.

### **4.3 Data completeness rate**

Data are complete.

## **5 Accuracy and reliability**

The aviation statistics is based on an exhaustive census, i.e. there is no sampling errors and total error in the final statistics is assessed to be very small.

Minor revisions do occur after first publication but the statistics are generally correct.

### **5.1 Overall accuracy**

The statistics are in general reliable without systematic errors.

### **5.2 Sampling error**

Not applicable

### **5.3 Non-sampling error**

Not applicable

#### **5.4 Quality management**

Statistics Denmark follows the recommendations on organisation and management of quality given in the Code of Practice for European Statistics (CoP) and the implementation guidelines given in the Quality Assurance Framework of the European Statistical System (QAF). A Working Group on Quality and a central quality assurance function have been established to continuously carry through control of products and processes.

#### **5.5 Quality assurance**

Statistics Denmark follows the principles in the Code of Practice for European Statistics (CoP) and uses the Quality Assurance Framework of the European Statistical System (QAF) for the implementation of the principles. This involves continuous decentralized and central control of products and processes based on documentation following international standards. The central quality assurance function reports to the Working Group on Quality. Reports include suggestions for improvement that are assessed, decided and subsequently implemented.

#### **5.6 Quality assessment**

In general the quality of the statistics are assessed to be quite high. Data are collected for administrative purposes and response rate is very high. The collected information are consistent with the statistical concepts.

Revisions occur from time to time that introduces a slightly higher uncertainty on first disseminations but overall the uncertainty on passengers and tonnes are assessed to be less than 1 per cent.

#### **5.7 Data revision - policy**

Statistics Denmark revises published figures in accordance with the [Revision Policy for Statistics Denmark](#). The common procedures and principles of the Revision Policy are for some statistics supplemented by a specific revision practice.

#### **5.8 Data revision practice**

Data is revised for current year until figures for a year is published.

If significant errors or revisions are detected, revisions are reflected in the statistics at first given opportunity.

### **6 Timeliness and punctuality**

Statistics Denmark publishes quarterly data approximately 50 days after end of reference period.

Data are always published at the scheduled and announced time of publication.

## **6.1 Timeliness and time lag - final results**

Quarterly statistics are published approximately 50 days after the end of the reference period.

Annual statistics are published approximately 120 days after the end of the reference year.

## **6.2 Punctuality**

The statistics are usually published without delay compared to scheduled and announced date of publication.

## **7 Comparability**

There is a consistent time series dating back to 1990.

Data are wholly comparable with statistics from other countries within the European Statistical System, ESS.

### **7.1 Comparability - geographical**

The statistics are wholly comparable with other EU- and EFTA-countries statistics on passenger and goods transport on airplanes. Comparable statistics are published by Eurostat.

### **7.2 Comparability over time**

Statistics on air passenger traffic and air goods transport are consistent from 1990.

### **7.3 Coherence - cross domain**

Comparable transport statistics are not available.

### **7.4 Coherence - internal**

Not applicable

## **8 Accessibility and clarity**

The statistics are published yearly in *Nyt fra Danmarks Statistik* (Statistical News) and detailed statistics will be updated quarterly in the online database, [Statbank](#)

Selected tables from the statistics are also published in the annual publications, *Statistical Yearbook* and *Statistical 10-year Review*.

### **8.1 Release calendar**

The publication date appears in the release calendar. The date is confirmed in the weeks before.

## 8.2 Release calendar access

The Release Calendar can be accessed on our English website: [Release Calendar](#).

## 8.3 User access

Statistics are always published at 8:00 a.m. at the day announced in the release calendar. No one outside of Statistics Denmark can access the statistics before they are published.

## 8.4 News release

The statistics are announced in [Nyt fra Danmarks Statistik](#). This is only published in Danish.

## 8.5 Publications

Goods and passenger transport by air is included together with other transport statistics in tables in [Statistical Yearbook](#)

Goods and passenger transport by air is included together with other transport statistics in tables in [Statistical ten-year Review](#) - publication only in Danish.

## 8.6 On-line database

There is a number of tables in [Statbank](#) with detailed information on both [goods](#) and [passenger transport](#) by air.

A couple of examples are

- [Departing passengers from major, manned, public airports, quarterly, seasonally adjusted](#)
- [Air transport of goods](#)

## 8.7 Micro-data access

Micro-data are made available to researchers through Statistics Denmark's Researcher Access.

## 8.8 Other

Not applicable

## 8.9 Confidentiality - policy

The general [confidentiality policy of Statistics Denmark](#)

## 8.10 Confidentiality - data treatment

No confidentiality rules are applied to the data at Statistics Denmark. At the Danish Transport Authority information on passenger figures for individual flight operators are removed before data is transmitted to Statistics Denmark.



### **8.11 Documentation on methodology**

For additional documentation on the methodology, please refer to the [Danish Transport Authority \(Trafikstyrelsen\)](#).

### **8.12 Quality documentation**

Results from the quality evaluation of products and selected processes are available in detail for each statistics and in summary reports for the Working Group on Quality.

## **9 Contact**

Aviation is part of the division on Short term statistics.

Responsible person is Peter Ottosen, tel. +45 3917 3025, e-mail: [pot@dst.dk](mailto:pot@dst.dk)

Contact person is Majbrit Holst, tel. +45 3917 3361, e-mail: [mbj@dst.dk](mailto:mbj@dst.dk)

### **9.1 Contact organisation**

Statistics Denmark

### **9.2 Contact organisation unit**

Short Term Statistics, Department of Business Statistics

### **9.3 Contact name**

Peter Ottosen

### **9.4 Contact person function**

Responsible for the statistics

### **9.5 Contact mail address**

Sejrøgade 11, 2100 Copenhagen

### **9.6 Contact email address**

[pot@dst.dk](mailto:pot@dst.dk)

### **9.7 Contact phone number**

+45 39 17 30 25

## **9.8 Contact fax number**

+45 39 17 39 99