



مركز الإحصاء
STATISTICS CENTRE

Population Estimates Statistics Methodology

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Overview

Statistics Centre - Abu Dhabi (SCAD) seeks to provide up-to-date data through studies of population estimates to government agencies as well as researchers, and specialists in various fields. This is inseparable from the fact that studying the population and the change in its size, composition and distribution is considered one of the practical and scientific fundamentals in the economic and social planning of any one of modern societies.

Importance

The of population estimates lies importance in the planning and development of countries as regards to the social and economic aspects. The goal is gaining information about the people, how to meet their needs and, raise their standards of living. Having an idea about the population size and composition will help reach this goal. If population estimates are unavailable, decision-makers have no way but to act on the basis of ambiguous assumptions or vague opinions about the size and composition of the population.

Objectives

- Following-up and evaluating population plans and programs.
- Drawing up demographic programs and policies.
- Determining the labour force size and new entrants to the labour force.
- Identifying the needs of basic services relating to public services (education, water, electricity, sanitation, food, roads...etc).
- Meeting the needs of the population when it comes to health care services.
- Providing data to the public, decision-makers, planners...etc.
- Updating related data in the annual, quarterly, and monthly publications of SCAD.
- Providing an updated statistical frame for the studies and surveys to be conducted.

Concepts and Definitions

Final Population Estimates: The final population estimates that are referenced to a particular date are made when all the data necessary to make final estimates is available. It is done after the completion of the census process and after the specified reference date. Final estimates may be referred to as “final” on the tables. The absence of any indication that the estimates are preliminary or revised means that they are final estimates.

Mid-year: The reference date for mid-year estimates is June 30 of each year.

Migration: Human migration is the movement of an individual from one location to another with the intention of long-term or permanent residence. Migration occurs when an individual changes his or her place of usual residence.

Natural increase: The difference between the number of births and deaths is called the natural change, and the term natural increase applies to positive natural change where the number of births is greater than the number of deaths during the specified period. But if the number of deaths is greater than the number of births, it is considered a negative natural change or natural decrease.

Preliminary Population Estimates: Preliminary population estimates for a specific reference date are prepared later than the reference date but before the time when all necessary relevant data is ready or final. Preliminary population estimates are subject to revision.

Revised Population Estimates: Revised population estimates are updates to the preliminary population estimates relating to a specific reference date later than the reference date with new information, but before all the data needed to prepare the final population estimates have been obtained. Revised estimates may be referred to in the tables as "reviewed/revised." When new information becomes available, the preliminary population estimates can be revised and this process results in either a revised estimate or a final estimate, and the revised estimate can be re-revised before the final estimates are prepared.

A usual resident: a usual resident in the Emirate of Abu Dhabi is a person who usually lives in the Emirate. Usual residents include citizens who are outside the emirate, but usually reside in the emirate of Abu Dhabi, as well as non-citizens who have resided or intend to reside there for a period of no less than six months. The usual place of residence is defined as the place where an individual stay most nights. The reference period for resident population estimates is 12 months.

Projections: the numerical output of a specified set of assumptions about the numerical value of a variable. Projections are a direct measure of current and future conditions that can be directly measured.

Estimates: Calculations of the current or past value of a variable based on the trends of indicators related to that variable and changes in those indicators.

Predictions/Forecasts: are the projections that are chosen as the best estimate of the future value of the variable under study.

Population growth factors: These are the three determinants that govern change in the population size, namely births, deaths and net migration.

Crude birth rate: the number of births in a given year for every one thousand persons.

Crude death rate: the number of deaths in a given year for every one thousand persons.

Total fertility rate: the number of children expected to be born by a female during her reproductive life from 15-49 years.

Infant mortality rate: the number of deaths of children under the first year of life in a given year per thousand births in that year.

Life expectancy at birth: the average number of years that a newborn could expect to live if he or she were to pass through life subject to the age-specific mortality rates of a given period.

Life table: a demographic tool that reflects the pattern of death for a specific population cohort.

Geographical Coverage

The Emirate of Abu Dhabi; it includes three regions (Abu Dhabi, Al Ain, and Al Dhafra).

Frequency

- Preliminary mid-year population estimates (Annual)
- Revised mid-year population estimates (Annual)
- Preliminary end-year population estimates (Annual)
- Revised end-year population estimates (Annual)
- Preliminary quarterly population estimates (Quarterly)

Classifications

- Age
- Gender (male, female)
- Citizenship (citizen/non-citizen)
- Region (Abu Dhabi, Al Ain, and Al Dhafra).

Main Data Sources

- Birth and death records are obtained from the Department of Health - Abu Dhabi,
- Worker compensation data are obtained by economic activity at current prices and estimates of inbound migrants are obtained from the labour force survey.
- Education enrollment data are obtained from Department of Education and Knowledge (ADEK).
- Data on incoming and outgoing international passengers are obtained from Abu Dhabi Airports Company.
- Arrivals data are obtained from the Federal Authority for Identity and Citizenship.

The data are transferred to the Statistics Centre Abu Dhabi for processing and classification, whereafter they are used for the purposes of calculating estimates of components of population growth (births, deaths and migration). These components are then used to calculate estimates of the resident population.

Questionnaires

Not applicable

Sample Design

Not applicable

Data Collection

- Population census.
- Immigration data from surveys carried out by the SCAD.
- Administrative records.

Data Editing

- Comparison with previous data: the current year's is compared with the time series of previous years' in detail.
- Sample indicators are derived for the purpose of comparing them with those of previous years, for example the annual growth rate, the age dependency rate.
- The results of population estimates are compared against administrative records, e.g., data from the Department of Education and Knowledge and data from the Department of Health for the same year.

Calculation of Population Estimates

Population estimates rely on the results of population censuses on the one hand and on study of the mortality, fertility and migration rates prevailing over the specified time period.

Timeliness

Mid-year, year-end and end-of-quarter estimates are released every year.

Dissemination

- Statistical Yearbook
- Annual bulletins
- Abu Dhabi in Half a Century
- Human development
- Sustainable development



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Our Vision: Leadership and Innovation in Statistics



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