

World Population Prospects (WPP), United Nations Population Division (UNPD)

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Contents

Summary

Tables In IFs

Data Pulling Instructions

Data Notes

- Life expectancy and TFR data

 - Description of Data

 - Methodology used by UNPD

 - Life expectancy and TFR in IFs

 - Data Source

- Instructions on Annualizing WPP Population Data

Summary

The Population Division was established in the earlier years of the United Nations to serve as the Secretariat of the then Population Commission, created in 1946. Over the years, the Division has played an active role in the intergovernmental dialogue on population and development, producing constantly updated demographic estimates and projections for all countries, including data essential for the monitoring of the progress in achieving the Millennium Development Goals, developing and disseminating new methodologies, leading the substantive preparations for the United Nations major conferences on population and development as well as the annual sessions of the Commission on Population and Development.

Tables In IFs

Project Overview										Task Details										Resource Allocation										Progress Tracking										Risk Assessment										Communication										Reporting									
Project ID					Project Name					Task ID					Task Name					Resource Name					Resource Type					Start Date					End Date					Progress %					Risk Level					Owner					Stakeholders					Report Date					Report Type				
P001					Project Alpha					T001					Task Alpha.1					R001					Resource A					2023-01-01					2023-01-15					100%					Low					J. Doe					Stakeholder A					2023-01-15					Final Report				
P001					Project Alpha					T002					Task Alpha.2					R002					Resource B					2023-01-16					2023-01-30					80%					Medium					J. Doe					Stakeholder A					2023-01-30					Progress Report				
P001					Project Alpha					T003					Task Alpha.3					R003					Resource C					2023-01-31					2023-02-15					50%					High					J. Doe					Stakeholder A					2023-02-15					Interim Report				
P001					Project Alpha					T004					Task Alpha.4					R004					Resource D					2023-02-16					2023-03-01					20%					Medium					J. Doe					Stakeholder A					2023-03-01					Initial Report				
P001					Project Alpha					T005					Task Alpha.5					R005					Resource E					2023-03-02					2023-03-15					10%					Low					J. Doe					Stakeholder A					2023-03-15					Planning Report				
P001					Project Alpha					T006					Task Alpha.6					R006					Resource F					2023-03-16					2023-03-30					5%					Medium					J. Doe					Stakeholder A					2023-03-30					Initiation Report				
P001					Project Alpha					T007					Task Alpha.7					R007					Resource G					2023-03-31					2023-04-15					0%					High					J. Doe					Stakeholder A					2023-04-15					Concept Report				
P001					Project Alpha					T008					Task Alpha.8					R008					Resource H					2023-04-16					2023-04-30					0%					Medium					J. Doe					Stakeholder A					2023-04-30					Feasibility Report				
P001					Project Alpha					T009					Task Alpha.9					R009					Resource I					2023-05-01					2023-05-15					0%					Low					J. Doe					Stakeholder A					2023-05-15					Scope Report				
P001					Project Alpha					T010					Task Alpha.10					R010					Resource J					2023-05-16					2023-05-30					0%					Medium					J. Doe					Stakeholder A					2023-05-30					Requirement Report				
P001					Project Alpha					T011					Task Alpha.11					R011					Resource K					2023-05-31					2023-06-15					0%					High					J. Doe					Stakeholder A					2023-06-15					Design Report				
P001					Project Alpha					T012					Task Alpha.12					R012					Resource L					2023-06-16					2023-06-30					0%					Medium					J. Doe					Stakeholder A					2023-06-30					Development Report				
P001					Project Alpha					T013					Task Alpha.13					R013					Resource M					2023-07-01					2023-07-15					0%					Low					J. Doe					Stakeholder A					2023-07-15					Testing Report				
P001					Project Alpha					T014					Task Alpha.14					R014					Resource N					2023-07-16					2023-07-30					0%					Medium					J. Doe					Stakeholder A					2023-07-30					Deployment Report				
P001					Project Alpha					T015					Task Alpha.15					R015					Resource O					2023-07-31					2023-08-15					0%					High					J. Doe					Stakeholder A					2023-08-15					Post-mortem Report				
P001					Project Alpha					T016					Task Alpha.16					R016					Resource P					2023-08-16					2023-08-30					0%					Medium					J. Doe					Stakeholder A					2023-08-30					Lessons Learned Report				
P001					Project Alpha					T017					Task Alpha.17					R017					Resource Q					2023-08-31					2023-09-15					0%					Low					J. Doe					Stakeholder A					2023-09-15					Final Review Report				
P001					Project Alpha					T018					Task Alpha.18					R018					Resource R					2023-09-16					2023-09-30					0%					Medium					J. Doe					Stakeholder A					2023-09-30					Project Closure Report				
P001					Project Alpha					T019					Task Alpha.19					R019					Resource S					2023-10-01					2023-10-15					0%					High					J. Doe					Stakeholder A					2023-10-15					Project Summary Report				
P001					Project Alpha					T020					Task Alpha.20					R020					Resource T					2023-10-16					2023-10-30					0%					Medium					J. Doe					Stakeholder A					2023-10-30					Project Handover Report				
P001					Project Alpha					T021					Task Alpha.21					R021					Resource U					2023-10-31					2023-11-15					0%					Low					J. Doe					Stakeholder A					2023-11-15					Project Archiving Report				
P001					Project Alpha					T022					Task Alpha.22					R022					Resource V					2023-11-16					2023-11-30					0%					Medium					J. Doe					Stakeholder A					2023-11-30					Project Retrospective Report				
P001					Project Alpha					T023					Task Alpha.23					R023					Resource W					2023-12-01					2023-12-15					0%					High					J. Doe					Stakeholder A					2023-12-15					Project Evaluation Report				
P001					Project Alpha					T024					Task Alpha.24					R024					Resource X					2023-12-16					2023-12-30					0%					Medium					J. Doe					Stakeholder A					2023-12-30					Project Feedback Report				
P001					Project Alpha					T025					Task Alpha.25					R025					Resource Y					2024-01-01					2024-01-15					0%					Low					J. Doe					Stakeholder A					2024-01-15					Project Completion Report				
P001					Project Alpha					T026					Task Alpha.26					R026					Resource Z					2024-01-16					2024-01-30																																		

Data Pulling Instructions

Use the table below for filtering and gathering data. There is a python script if you would like to use it

1. There are 290 series in total. 4 preprocessors: CBR, CDR, TFR, and Population.
1. WPP2024_GEN_F01_DEMOGRAPHIC_INDICATORS_FULL.xlsx does not contain "Constant-mortality" variant/tab. Thus, we use the CSV file to import the series.
2. Besides "Estimates", we have 9 variants: Medium, High, Low, Constant-fertility, Constant-mortality, Instant-replacement, Momentum, No change and Zero-migration. You may check the definition here.

Table. Projection scenarios in terms of assumptions for fertility, mortality and international migration

Projection scenarios	Assumptions		
	Fertility	Mortality	International migration
Medium (fertility)	Medium (based on mean probabilistic fertility)	Medium (based on mean probabilistic mortality)	Medium (based on median probabilistic net migration)
Low fertility	Low	Medium	Medium
High fertility	High	Medium	Medium
Constant-fertility	Constant as of 2024	Medium	Medium
Instant-replacement-fertility	Instant-replacement as of 2024	Medium	Medium
No fertility below age 18 years	Age-specific fertility below age 18 = 0 as of 2024	Medium	Medium
Accelerated decline of adolescent birth rate (ABR)	Age-specific fertility below age 20 declines by 20 per cent per year until ABR is below 10 births per 1000 women aged 15-19	Medium	Medium
Accelerated decline of ABR with recovery	Accelerated ABR decline with recovery of half of reduced fertility once cohorts have aged 10 years	Medium	Medium
Constant-mortality	Medium	Constant as of 2024	Medium
No change	Constant as of 2024	Constant as of 2024	Medium
Zero-migration	Medium	Medium	Zero from 2024
Instant-replacement zero-migration	Instant-replacement as of 2024	Medium	Zero from 2024
Momentum	Instant-replacement as of 2024	Constant as of 2024	Zero from 2024

3. Series from WPP2024_POP_F02_1_POPULATION_5-YEAR_AGE_GROUPS_BOTH_SEXES.xlsx needs extra calculation. The rest of the series can be imported directly according to the "Column" for each file by variant/tab listed above.
4. Please keep in mind, "Estimates" value needs to be combined with each variant/tab.
5. The python scripts for data pulling can be accessed here.

Data Notes

Besides "Estimate", all the data with variant contains data from 1950-2100, 151 years in total. There are 9 variants. Thus, there are 261 tables (29*9) containing data for 151 years and no missing values.

Thus, we found that the processing time took way longer than we expected.

To save the time, we have recommend that removing half of the tables at a time from IFsImport.db.

SeriesNameing needs follow the rules below:

1. For forecast series, when a new update is done, tables from the previous versions need to be renamed with their version name, i.e., 2022Rev for Forecast series from WPP 2022 version.
2. In 2024 update, we make a copy of the ForecastNetMigrationMedUNPD table and rename it to ForecastNetMigrationUNPD.

Life expectancy and TFR data

Description of Data

Life expectancy and fertility rate data are available for 5 year intervals (e.g. 1955-1960, 1960-1965) up to latest year. Since the datasets are estimates, the data is available for five year intervals up to the year 2100. For the purpose of IFs, a simple average needs to be computed in order to arrive at a value for every 5 year interval (e.g. Average for 1955-60 value and 1960-65 value will be recorded under the year 1960 for IFs). On the basis of these 5 year intervals, IFs computes the annual values for life expectancy and TFR using an interpolation function.

Methodology used by UNPD

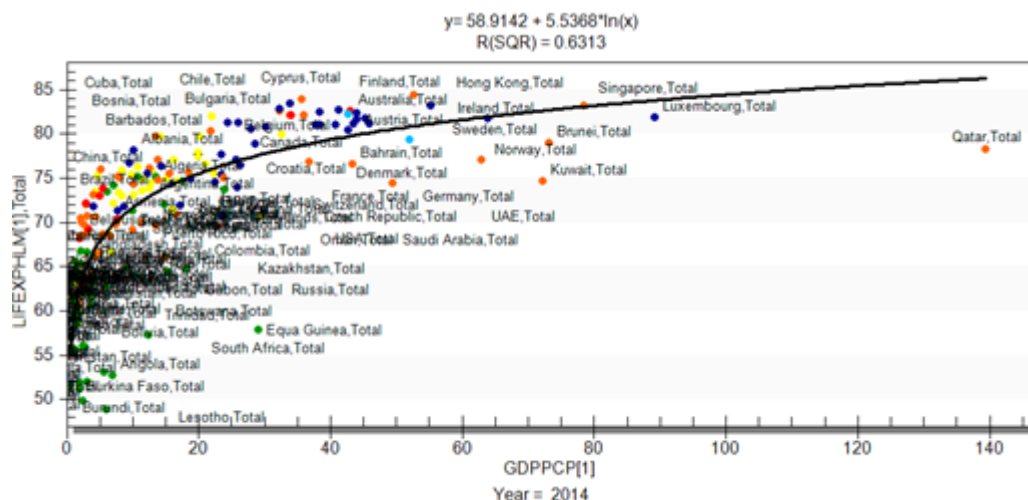
The life expectancy at birth is defined by UNPD as the number of years a newborn infant could expect to live if prevailing patterns of age-specific mortality rates at the time of birth stay the same throughout the infant's life. The life expectancy data is computed by UNPD on the basis of the estimated levels of infant and child mortality and after taking into consideration special circumstances in respective nations. For example, the mortality impact of AIDS has been factored in when computing the life expectancy at birth of Rwanda.

The UNPD model for computation of TFR is probabilistic and makes use of historical demographic data. The 2015 revision in the methodology, also takes into account levels of development across countries and considers cases where fertility rates may stay constant or in some cases also rise in the future. For example, the fertility rate in sub-Saharan Africa has not fallen as fast as the rate in other regions in the world on account of high infant mortality from communicable diseases and low levels of human development.

Life expectancy and TFR in IFs

Life expectancy is driven by income levels (GDP per capita at PPP), government spending on health and education (GDS), civilian damage from wars, population and mortality. Life expectancy shares an especially strong relationship with income as evidenced by an r square value of 0.63. TFR in IFs is primarily driven by female education, GDP per capita at PPP, population levels. The chart below shows the relationship between GDP per capita and life expectancy across all nations in 2014.

Life expectancy compared to GDP per capita at PPP in 2014



Source: *International Futures 7.22*

Since the data in IFs is calculated on the basis of assigned averages between two time periods, it must be noted that data won't be available for the period succeeding the latest year (e.g. for the 2015 update, latest data is available for the 2010-2015 period, but no data is available for 2015-2020 period, thus the average value cannot be calculated.) For the latest period, when computing the average value, the forecast value for the future period is used. (e.g. for 2015, compute the average using 2010-2015 value and the 2015-2020 forecasted value.) While using forecasts, note that three varieties of forecast values are available from UNPD, one with a low variant, one with a medium variant and one with a high variant. The medium variant is used when computing the average, as this is likely to be the closest to the actual value.

Data Source

<https://population.un.org/wpp/Download/Standard/Population/>

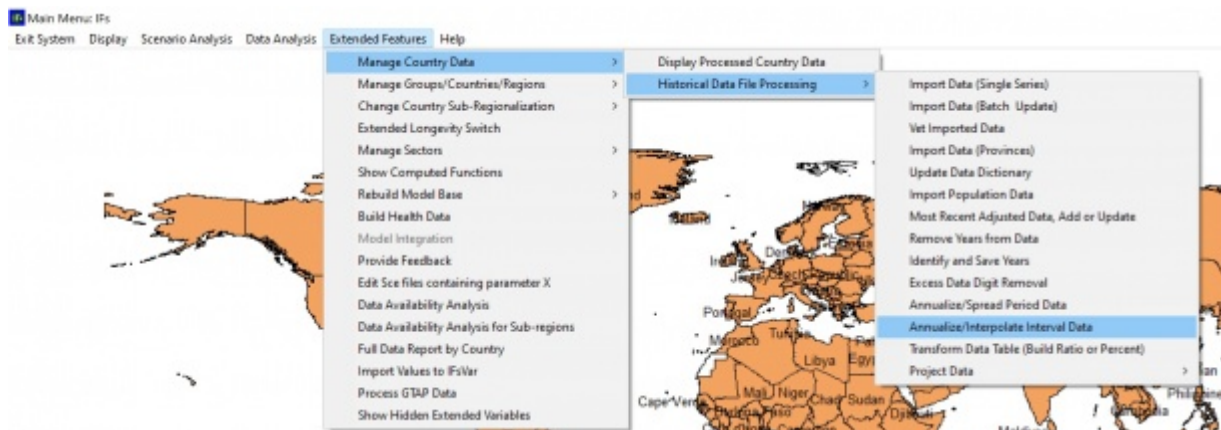
Instructions on Annualizing WPP Population Data

Several of the WPP Population series are given in averages or sums every 5 years.

To provide values for the missing years, IFs has a built in "Annualize" feature under Extended Features>Manage Country Data>Historical Data File Processing.

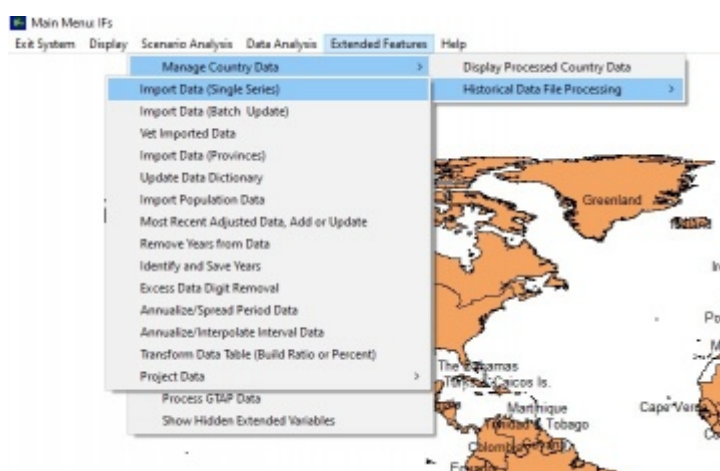
There are two different functions:

1. Annualize/Spread Period Data (Use this if the raw data values represent the sum of data for all years contained in the interval. The data will then be spread across the 5 years.)
2. Annualize/Interpolate Interval Data (Use this if the raw data values represent the data for only one given year. In this case the missing years will be interpolated across the missing years.)

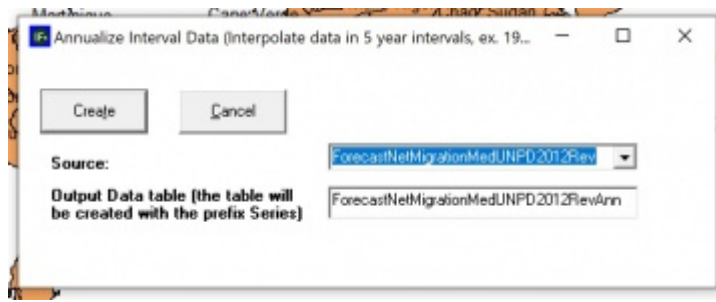


In order use the Annualize functions in IFs, complete the following steps:

1. Format raw data in excel
2. Import Excel Data to an access file using IFs>Extended Features>Historical Data File Processing>Import Data



3. Copy Series Table from access file Local Disk (C:)>Users>Public>IFs>DATA>IFsDataImport and paste in Local Disk (C:)>Users>Public>IFs>DATA>IFsHistSeries
4. Copy the corresponding row from the DataDict Table in access file "Local Disk (C:)>Users>Public>IFs>DATA>IFsDataImport" and paste in "Local Disk (C:)>Users>Public>IFs>DATA>DataDict"
5. Annualize data in IFs: Extended Features>Manage Country Data>Historical Data File Processing>Annualize/Interpolate Data OR Annualize/Spread Data
 - a. Select source name that matches the table you pasted in IFsHistSeries
 - b. Use a unique name for the Output Data table so you can differentiate the annualized version
 - note that the Source series must be included in both IFsHistSeries and DataDict tables, otherwise it will not show up as an option for annualizing



6. Compile all annualized tables in a new access file, include data dict table, and be sure series names match

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This page was last edited on 8 July 2025, at 21:09.