

***Two Thousand Years of
Economic Statistics,
Years 1 – 2015,
Population, GDP at PPP, and
GDP Per Capita***

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Two Thousand Years of Economic Statistics, Years 1-2015:
Population, GDP at PPP, and GDP Per Capita.

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What is New?

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The main difference between this year's edition of *Two Thousand Years of Economic Statistics* and the previous edition is that the latest year with actual data for population, GDP, and GDP per capita is 2015. Correspondently all historical and future GDP and GDP per capita numbers are in 2015 dollars.

In this year's edition 2040, 2050, and 2060 are added as years of projection of population, GDP, and GDP per capita; for projections of population also are added 2070, 2080, 2090, and 2100.

To contain the cost, in this year's edition three sections in rank order are removed: Population Growth Rates, GDP Growth Rates, and GDP Per Capita Growth Rates.

This year I switched to the World Bank as the main source of population data.

Also, this year, the number of countries with data about GDP and GDP per capita is increased to 262 and the number of countries with data about population is increased to 296. The additional new countries with data about GDP, GDP per capita, and population are Azores, Bougainville, Ceuta, Madeira, and Melilla. The additional new countries with population data are Agalega, Alboran Island, Alhucemas Islands, Amirantes Islands, Barbuda, Carriacou and Petite Martinique, Chafarinas Islands, Chatham Islands, Farquhar, Islands of the Aldabra Group, Islands of the Alphonse Group, Los Roques, Los Testigos, Penon de Velez de la Gomera, Rodrigues Island, Rotuma Island, Saint Brandon, San Andres, Providencia and Santa Catalina, and Southern Coral Group.

Generally, I include into my list of countries independent states and dependent territories which have at least some population. The list of dependent territories is taken from different year editions

What is New?

of the CIA *World Factbook* and from English and Russian Wikipedia. The list of independent states is trickier. Some of the states, which I included into this category (like frozen conflict states of the former U.S.S.R. and Northern Cyprus), are recognized only by a handful of states. In the extreme, Donetsk People's Republic, Luhansk People's Republic, and Somaliland are not recognized by anybody. The standard used is the sovereignty doctrine, which does not require international recognition, but requires the existence of separate governments and control over their territories (see, for example: https://en.wikipedia.org/wiki/List_of_sovereign_states). I happen to think that some of the potential addressees of this book, like members of the U.S. Congress, may be interested in exactly the hard-to-find data about the economic potential of this kind of states.

Introduction

Introduction

This statistical annual presents historical statistics in six sections: (1) Population by rank, (2) GDP Per Capita by rank, (3) GDP by rank, (4) Population/Growth Rates of Population by country, (5) GDP Per Capita/Growth Rates of GDP Per Capita by country, (6) GDP/Growth Rates of GDP by country.

The advantage of this yearbook is that it contains data generally not available elsewhere. It gives statistics for two groups of countries in their 2015 borders. First, since year 1950 (for 1950, 1960, 1970, 1980, 1990, 2000, 2010, 2015) it provides population data for all countries of the world (271-272 countries) and GDP and GDP Per Capita for 262 countries, plus forecast (for 2020, 2030, 2040, 2050, 2060). Second, since year 1000 (for 1000, 1500, 1600, 1700, 1820, 1850, 1870, 1880, 1890, 1900, 1913, 1920, 1929, and 1938) it provides data for a smaller group of countries (gradually raising from about 140 to about 262 countries) Third, for year 1 AD it provides data for 139 countries. This yearbook is based on the groundbreaking works of Angus Maddison but it differs from his books in that it gives data up to the most recent year and calculates GDP (gross and per capita) in the prices of the most recent year. For the past years I use the World Bank, CIA, and Encyclopedia Britannica as primary sources. Where possible the main source of data is the World Bank World Development Indicators Online for the latest year, April update version; the exception is population where the main source of data is the January update of the World Development Indicators Online for the latest year. But, despite my great debt to these sources, the preponderance of data in the book is not direct citations from them but rather the result of calculations. Among other computational techniques I use a new logarithmic interpolation, which takes care of cross-country statistical distortions when calculating in the prices of the most recent year. Another thing that distinguishes this book is that for every line of data (for every country each year) I provide a note of the technique used in obtaining my estimate (i. e., proxy, exponential

Introduction

interpolation, direct estimate with source citation, etc.). This book has a value as an annual because each year data in the prices of the most recent year is different; plus, the logarithmic interpolation used requires recalculation every year based on the new data. The primary sources for future estimates of population are the IDB and Encyclopedia Britannica and the primary source for future estimates of total GDP at PPP is IMF.

This yearbook is a supplement for my other annual, *Quality of Life, Balance of Powers, and Nuclear Weapons*. While *Quality of Life, Balance of Powers, and Nuclear Weapons* gives a current snapshot of the world statistics, *Two Thousand Years of Economic Statistics* gives the population and current price GDP data in a historical perspective.

Sources

Sources

The sources are shown in the form: XX(Source) or XX(Source A/SourceB), where XX is a year and (Source) (or Source A or Source B) is one of the following:

WB	The World Bank (1)
IMF	The International Monetary Fund
IDB	U.S. Bureau of Census International Data Base
E	Encyclopedia Britannica
CIA	Central Intelligence Agency
WIKI	Wikipedia or other Internet source
EST	My estimate
REG	Regression is used
POP*GPC	Obtained by multiplication of Population by GDP Per Capita at Purchasing Power Parities
PROXY(X(Source))[ACCEL]	Approximation based on data for country or group of countries X from source Source
PROXY(X(Source A/Source B))[ACCEL]	Approximation based on data for country or group of countries X from sources Source A and Source B
YY(Country(1))	GDP Per Capita PPP in 1990 prices of the country Country in the year YY
YY(Country(2))	GDP Per Capita PPP in 2010 prices of the country Country in the year YY
YY(Country(3))	GDP Per Capita PPP in 2017 prices of the country Country in

Sources

	the year YY
YY(Country(4))	GDP Per Capita PPP in current prices of the country Country in the year YY
INTERPOL(X(Source))[ACCEL]	Exponential interpolation based on data for country or group of countries X from source Source
INTERPOL(X(Source A/Source B))[ACCEL]	Exponential interpolation based on data for country or group of countries X from sources Source A and Source B
EXTRAPOL(Source:XXXX-YYYY)[ACCEL]	Exponential extrapolation on data from source Source for years between XXXX and YYYY
INTERPOL(Source:XXXX-YYYY)[ACCEL]	Exponential interpolation on data from source Source for years between XXXX and YYYY
PROXY(X(EXTRAPOL(Source:XXXX-YYYY)))[ACCEL]	Approximation based on data for country or group of countries X which was exponentially extrapolated for data from source Source for years between XXXX and YYYY
PROXY(X(INTERPOL(Source:XXXX-YYYY)))[ACCEL]	Approximation based on data for country or group of countries X which was exponentially interpolated for data from source Source for years between XXXX and YYYY
YY(Source A)WEIGHT(Country X(Source B))[ACCEL]	Data for year YY from Source A weighted to data for Country X from Source B
YY(Source A)WEIGHT(YY(Source B))[ACCEL]	Data for year YY from Source A weighted to data for the same country from Source B

Sources

[ACCEL]	Optional accelerator multiplier when the latter is deemed necessary to show trajectory of growth from the average level for a given region
MIN	When estimated per capita GDP is less than minimum per capita GDP at purchasing power parities in 1990 international dollars (400 dollars) special algorithm described in the Appendix is used.
AVG(Region(Source))	Average for the region Region based on the source Source.

Regions

Regions

9 European cs	9 small European countries: Andorra, Channel Islands (Guernsey and Jersey), Faeroe Islands, Gibraltar, Greenland, Isle of Man, Liechtenstein, Monaco, and San Marino (also now Aland Islands, Alboran Island, Alhucemas Islands, Azores, Chafarinas Islands, Cueta, Holy See, Jan Mayen, Madeira, Melilla, Penon de Velez de la Gomera, and Svalbard)
7 Caribbean cs	7 small Caribbean countries: Antigua & Barbuda, Bermuda, Guadeloupe, Guiana (Fr.), Martinique, former Netherlands Antilles (now Bonaire, Curacao, Saba, Sint Eustatius, and Sint Maarten), and Saint. Kitts & Nevis (also now Barbuda, Carriacou and Petite Martinique, Grenada, Los Roques, Los Testigos, Saint Barthelemy, Saint Martin, and San Andres, Providencia and Santa Catalina)
8 Caribbean cs	8 small Caribbean countries: Anguilla, Aruba, Cayman Islands, Montserrat, Saint Pierre & Miquelon, Turks & Caicos Islands, Virgin Islands (U.S.), and British Virgin Islands

Regions

14 Pacific Is	14 Pacific islands: American Samoa, French Polynesia, Guam, Kiribati, Marshall Islands, Micronesia, New Caledonia, Northern Mariana Islands, Palau, Solomon Islands, Tonga, Vanuatu, Wallis & Futuna, and (Western) Samoa (also now Argentine Antarctica, Australian Antarctic Territory, British Antarctic Territory, Chatham Islands, Chilean Antarctic Territory, Cook Islands, Coral Sea Islands, French Southern and Antarctic Lands, Midway Islands, Nauru, Niue, Norfolk Island, Palmyra Atoll, Paracel Islands, Pitcairn Islands, Ross Dependency, South Georgia and South Sandwich Islands, and Tokelau)
Pacific Is Small	8 Small Pacific Islands: Kiribati, Marshall Islands, Micronesia, Palau, Samoa, Tonga, Tuvalu, and Vanuatu
3 Afr. cs	3 small African countries: Mayotte, Saint Helena, and Western Sahara
E. Europe	Eastern Europe
Eur. Russia	European Russia
Eu. Rs./Sb.	European Russia & Siberia
Other W. offshots	Other Western offshots: Canada, Australia, and New Zealand
26 E. Asian cs	26 East Asian countries: Afghanistan, Cambodia, Laos, Mongolia, North Korea,

Regions

	Vietnam, Bhutan, Brunei, Fiji, Macao, Maldives, Papua New Guinea, American Samoa, French Polynesia, Guam, Kiribati, Marshall Islands, Micronesia, New Caledonia, Northern Mariana Islands, Palau, Solomon Islands, Tonga, Vanuatu, Wallis & Futuna, and (Western) Samoa (also now Argentine Antarctica, Australian Antarctic Territory, Bouvet Island, British Antarctic Territory, Chatham Islands, Chilean Antarctic Territory, Cook Islands, Coral Sea Islands, French Southern and Antarctic Lands, Midway Islands, Nauru, Niue, Norfolk Island, Palmyra Atoll, Paracel Islands, Pitcairn Islands, Queen Maud Land, Ross Dependency, Rotuma Island, South Georgia and South Sandwich Islands, and Tokelau)
Other E. Asia	Other East Asia: East Asia other than Japan, China, and India
Pak./wh. India	Pakistan/whole India
Ban./wh. India	Bangladesh/whole India
Ind./wh. India	India/whole India
Other N. Africa	Other North Africa: Algeria, Tunisia, and Libya
Sahel & W. Africa	Sahel & Other West Africa
Sahel	Chad, Mauritania, Mali, and Niger
Other W. Africa	Other West Africa: Senegal, Gambia, Guinea-Bissau, Guinea,

Regions

	Sierra Leone, Liberia, Burkina Faso, Ivory Coast, Ghana, Togo, Benin, Nigeria, Cape Verde, and Western Sahara
Other E. Africa	Other East Africa: Burundi, Djibouti, Kenya, Rwanda, Tanzania, and Uganda
Rest of Africa	Africa other than North Africa, Sahel, and West Africa
Mal., Zam., Zim.	Malawi, Zambia, and Zimbabwe
S. Afr., Sw., Ls.	South Africa, Swaziland, and Lesotho
Ethiopia & Eritr.	Ethiopia & Eritrea
Namibia & Botsw.	Namibia & Botswana
Indian Ocean	Comoros, Mauritius, Mayotte, Reunion, and Seychelles (also now Agalega, Amirantes Islands, British Indian Ocean Territory, Farquhar, Islands in the Aldabra Group, Islands in the Alphonse Group, Rodrigues Island, Saint Brandon, and Southern Coral Group)
Gulf Coast	Bahrain, Kuwait, Qatar, and United Arab Emirates
Arabia	Bahrain, Kuwait, Oman, Qatar, Saudi Arabia, United Arab Emirates, and Yemen
W. Asia	West Asia
Other W. Asia	Other West Asia: West Asia other than Arabia, Iran, Iraq, and Turkey
Other L. Am.	Other Latin America: Latin America other than Mexico
8 L. American cs	8 Latin American countries: Argentina, Brazil, Chile,

Regions

	Colombia, Mexico, Peru, Uruguay, and Venezuela
15 L. American cs	15 Latin American countries: Bolivia, Costa Rica, Cuba, Dominican Republic, Ecuador, El Salvador, Guatemala, Haiti, Honduras, Jamaica, Nicaragua, Panama, Paraguay, Puerto Rico, and Trinidad and Tobago
Caribbean cs.	30 Caribbean countries: Cuba, Dominican Republic, Haiti, Jamaica, Puerto Rico, Trinidad and Tobago, Bahamas, Barbados, Belize, Dominica, Grenada, Guyana, former Netherlands Antilles (now Bonaire, Curacao, Saba, Sint Eustatius, and Sint Maarten), Saint Lucia, Saint Vincent, Suriname, Antigua & Barbuda, Bermuda, Guadeloupe, Guiana (Fr.), Martinique, Saint Kitts & Nevis, Anguilla, Aruba, Cayman Islands, Montserrat, Saint Pierre & Miquelon, Turks & Caicos Islands, Virgin Islands (U.S.), and British Virgin Islands (also now Barbuda, Carriacou and Petite Martinique, Los Roques, Los Testigos, Saint Barthelemy, Saint Martin, and San Andres, Providencia and Santa Catalina)
Other Sp. Am.	15 Other Spanish America (ex. Caribbean): Argentina, Chile, Colombia, Peru, Uruguay, Venezuela, Bolivia, Costa Rica,

Regions

	Ecuador, Guatemala, Nicaragua, Paraguay	El Panama,	Salvador, Honduras, and
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Country Abbreviations

Country Abbreviations

AAT	Australian Antarctic Territory
Akrotiri & Dh	Akrotiri and Dhekelia
Aland Is	Aland Islands
Alboran I	Alboran Island
Aldabra Is	Islands in the Aldabra Group
Alhucemas Is	Alhucemas Islands
Alphonse Is	Islands in the Alphonse Group
Amirantes Is	Amirantes Islands
Argentine Ant	Argentine Antarctica
BAT	British Antarctic Territory
BIOT	British Indian Ocean Territory
Bouvet I	Bouvet Island
CAR	Central African Republic
Carriacou	Carriacou and Petite Martinique
CAT	Chilean Antarctic Territory
Cayman Is	Cayman Islands
Chafarinas Is	Chafarinas Islands
Chatham Is	Chatham Islands
Christmas I	Christmas Island
Cocos Is	Cocos (Keeling) Islands
Congo, Dem R	Congo, Democratic Republic of the
Congo, Rep	Congo, Republic of the
Cook Is	Cook Islands
Coral Sea Is	Coral Sea Islands
Czech Rep	Czech Republic
Dominican Rep	Dominican Republic
Donetsk Rep	Donetsk People's Republic
Equatorial G	Equatorial Guinea
Falkland Is	Falkland Islands
Faroe Is	Faroe Islands

Country Abbreviations

Farquhar Is	Farquhar Islands
Fr Polynesia	French Polynesia
FSAL	French Southern and Antarctic Lands
Guiana, Fr	Guiana, French
Johnston Atll	Johnston Atoll
Luhansk Rep	Luhansk People's Republic
Marshall Is	Marshall Islands
Midway Is	Midway Islands
N Cyprus	Northern Cyprus
N Mariana Is	Northern Mariana Islands
N-Karabakh	Nagorno-Karabakh
Norfolk I	Norfolk Island
Papua New G	Papua New Guinea
Paracel Is	Paracel Islands
Penon de Vel	Penon de Velez de la Gomera
Pitcairn Is	Pitcairn Islands
Queen Maud L	Queen Maud Land
Rodrigues I	Rodrigues Island
Rotuma I	Rotuma Island
S Coral Grp	Southern Coral Group
Samoa, Amer	Samoa, American
San Andres	San Andres, Providencia and Santa Catalina
Sao Tome & Pr	Sao Tome and Principe
SGSSI	South Georgia and South Sandwich Islands
Solomon Is	Solomon Islands
St Barthelem	Saint Barthelemy
St Brandon	Saint Brandon
St Helena	Saint Helena
St Kitts & N	Saint Kitts and Nevis
St Lucia	Saint Lucia
St Pierre	Saint Pierre and Miquelon
St Vincent	Saint Vincent and the Grenadines

Country Abbreviations

Statia	Sint Eustatius
Trinidad & T	Trinidad and Tobago
Turks & C Is	Turks and Caicos Islands
UAE	United Arab Emirates
UK	United Kingdom
US	United States
Virgin Is, Br	Virgin Islands, British
Virgin Is, US	Virgin Islands, U.S.
W Sahara	Western Sahara
Wallis & Fut	Wallis and Futuna

Variable Abbreviations

Variable Abbreviations

GPC	Gross Domestic Product at Purchasing Power Parities Per Capita
POP	Population
GDP	Gross Domestic Product at Purchasing Power Parities
GPC _{xxxx}	Gross Domestic Product Per Capita at Purchasing Power Parities, Year xxxx
POP _{xxxx}	Population, Year xxxx
GRPOP	Population Growth Rates
GRRL	GDP Real Growth Rates
GRPCRL	GDP Per Capita Real Growth Rates

1. GDP at PPP, by Rank