

Chapter 7

Macroeconomic Data

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This chapter provides an overview of the macroeconomic features of the GTAP 12 Data Base. We will first present how the macroeconomic data base is collected and processed. The next section will then focus on highlighting the salient features of the uses of Gross Domestic Product in the construction of the GTAP Data Base.

7.1 Data Sources and Processing

Our primary source of macroeconomic data is the World Development Indicators (WDI).¹ World Bank data is a suitable source of data for GTAP since it covers a wide range of countries and is reconciled for statistical discrepancies. From the WDI data base, we obtain GDP data, GDP expenditures (private consumption, government consumption, and gross fixed capital formation), and population.² The GDP and GDP expenditure data are measured in millions of current US dollars.³

For some countries, GDP and population data were not available in WDI, for those countries we compiled data from other sources such as the UN Statistics Division and the CIA World Factbook among others.

The construction of the GTAP Data Base does not directly require data on exchange rates. All the coefficients in the regional I-O tables are simply scaled to match the GDP reference year. Since most GDP data come from WDI data, the underlying exchange rate is the Atlas conversion factor⁴ that is used by the World Bank in its national accounts data.

¹WDI reports calendar year data, for the methodology behind please refer to this link.

²Retrieved November 2022 data, see WDI Archives.

³For example, for 2023, we use the R code at the end of this chapter.

⁴The Atlas conversion factor for any year is the average of a country's exchange rate (or alternative conversion factor) for that year and its exchange rates for the two preceding years, adjusted for the difference between the rate of inflation in the country and, for 2001 onward, that in countries including the Euro Zone, Japan, the United Kingdom, and the United States. A country's inflation rate is measured by the change in its GDP deflator <http://www.worldbank.org/data/aboutdata/working-meth.html>.

Estimates of GDP expenditures were generated for countries for which only GDP and population data are available. This was done by first mapping the 251 countries with a smaller number of 19 geographic regions. For each geographic region, the average share of each GDP expenditure to total GDP was calculated for the countries for which GDP expenditures data are available. Estimates of the GDP expenditures were then generated for the countries with no information by multiplying GDP of each country with the average share of the aggregate in the geographic region to which the country belongs. The estimates for each GDP aggregate were then summed up for each GTAP region after estimates were generated for the data gaps. This practice is based on the assumption that a country would have a macroeconomic profile similar to that of its neighboring countries. Since the GTAP 6 Data Base, GDP aggregates (private consumption, gross fixed capital formation, and government consumption) are scaled in order to maintain consistency of the collected GDP data with the reconciled trade data. The reconciled trade data do not match the total exports and imports in the World Bank dataset, therefore, if we do not scale the GDP aggregates, the resulting final GDP will be different than that of World Bank's GDP totals.

Finally, we would like to highlight the fact that since Version 7, the GTAP Data Base has released updates for the 2004 reference year. While some data remain the same, there are some notable changes. The first major difference is the expansion of standard country set from 226 to 244 that occurred between version 7 and 8. The additional composite regions are composed of small countries (both in terms of GDP and population) and are not countries for which we have input output (I-O) tables. The second issue is that the composition of GTAP composite regions changes when we receive a new I-O table, a fact we should keep in mind when comparing version 7 against Versions 8 or 9. Third, for the remaining regions the 2004 base year data in Version 8 represents a substantial improvement to that of Version 7 data base. For Version 7 we used World Bank data for 130 countries, leaving us to collect data from other sources for the other 96 countries. For Versions 8 and 9, the WDI had both expanded its country coverage and updated the 2004 macroeconomic data. As a result, we collected GDP data for 190 countries from WDI and 54 from other sources.

For GTAP 11 onward, we consider 251 countries/regions, that includes 248 countries and regions from United Nations (<https://unstats.un.org/unsd/methodology/m49/>) plus Kosovo, Sark, and Taiwan. For countries' data not available in WDI, we collect data from other sources such as the UN Statistics Division and the CIA World Factbook. For a few of the tiny countries/territories, GDP data is missing or zero, but population data is available. For such countries, we assumed the per-capita GDP to be the average per-capita GDP of the corresponding geographical region to calculate the approximate GDP. For South Georgia and the South Sandwich Islands, Bouvet Islands, Saint Barthélemy, Bonaire, British Indian Ocean Territory, and Heard and McDonald Islands, there was no data on GDP or sometimes population, so we assume and assigned a zero value for these territories.

7.2 *Uses of Macroeconomic Data*

During the GTAP Data Base construction process, macroeconomic data are used in various stages. The primary use of macroeconomic data is in updating the regional I-O tables to a common base year. As a first step, all the coefficients in the regional I-O tables, initially in national currency units, are scaled-up by the ratio of gross domestic product (GDP) calculated from the I-O tables to external GDP data in current US dollars. Then, data on GDP aggregates' private consumption (C), gross fixed capital formation (I), and government consumption (G) are used in the FIT process to update the values of these aggregates in the regional I-O tables.

Per-capita GDP data are also required in the construction of input-output tables for composite regions, i.e. the aggregate regions for which input-output data are generated based on the I-O tables of the primary regions. Similar per capita GDP is used as a criterion for matching a member country in a composite region to one of the primary regions within the same geographic area. A combination of one or more primary region I-O tables is then used to generate an I-O table for a composite region.

Macroeconomic data are also used in extending various data sets to the standard country coverage and as weights for aggregating data from standard countries to GTAP regions. Particularly GDP and GDP also used as weights for aggregating data on domestic support, factor shares, and labor shares from standard countries to GTAP regions. Finally, macroeconomic data, government consumption and GDP are used to check and potentially revise the share of government consumption in each I-O table. This procedure imposes a more uniform treatment of government consumption expenditure across countries.

7.3 *Capital Stock and Depreciation*

The GTAP Data Base also reports data on physical capital stock and depreciation. Capital stock data was collected from the International Monetary Fund for years 2004 to 2019 (IMF 2021). For 2023, we relied on our own estimates of capital stock that follow the perpetual inventory method.

From the IMF, we collect data for 194 countries for all the reference years in GTAP. Similar to the procedure for filling data gaps of the GDP expenditures, data gaps for capital stock were filled by first calculating the average ratio of capital stock to GDP for the countries for which capital stock data are available. Estimates of capital stock were then generated for the countries with no capital stock data by multiplying GDP in each country with the average ratio of capital stock to GDP in the geographic region to which the country belongs.

Capital depreciation is estimated at 4% of the physical capital stock for each reference year. The last column of Table 7.1 present capital stock data in millions of current US dollars for the countries used in the GTAP 12 Data Base.

7.4 *Balance of Payment Flows*

Starting in GTAP 12, we report the following balance of payments flows,

- from IMF, we retrieve foreign investment income (FY),
- from OECD, official development aid (AID), and
- from World Bank, remittances (RM).

The additional elements help us further refine the calibration of Savings in the GTAP Data Base. In GTAP 12, the implied macroeconomic condition was:

$$S - I = X - M \quad (7.1)$$

where I is net of depreciation and S is savings computed as a residual. With additional elements, the subscriber can recompute Savings as:

$$S - I = X - M + RM_{in} - RM_{out} + AID_{in} - AID_{out} + FY_{in} - FY_{out} \quad (7.2)$$

References

IMF (2021). *Investment and Capital Stock Dataset, 1960-2019*. URL: <https://tinyurl.com/4x58m8ku>.

Appendix. R code to retrieve WDI data

```
#extract WDI data

install.packages("WDI")
library (WDI)

sdate<-2023      #start date
edate<-2023      #end date

GDP<-( 'NY.GDP.MKTP.CD' )
a <- WDI(country="all", GDP, extra=TRUE, start=sdate ,end=edate)
# Discard unwanted rows and column
a <- a[a$region!="Aggregates",]
a <- a[!is.na(a$iso3c),]
a<- subset(a, select=c("iso3c","country", GDP))

PC<-( 'NE.CON.PRVT.CD' )
b <- WDI(country="all", PC, extra=TRUE, start=sdate ,end=edate)
# Discard unwanted rows
b <- b[b$region!="Aggregates",]
b <- b[!is.na(b$iso3c),]
b<- subset(b, select=c("iso3c", PC))

GC<-( 'NE.CON.GOVT.CD' )
c <- WDI(country="all", GC, extra=TRUE, start=sdate ,end=edate)
# Discard unwanted rows and column
c <- c[c$region!="Aggregates",]
c <- c[!is.na(c$iso3c),]
c<- subset(c, select=c("iso3c", GC))

GFCF<-( 'NE.GDI.FTOT.CD' )
d <- WDI(country="all", GFCF, extra=TRUE, start=sdate ,end=edate)
# Discard unwanted rows
d <- d[d$region!="Aggregates",]
d <- d[!is.na(d$iso3c),]
d<- subset(d, select=c("iso3c", GFCF))

POP<-( 'SP.POP.TOTL' )
p <- WDI(country="all", POP, extra=TRUE, start=sdate ,end=edate)
# Discard unwanted rows
p <- p[p$region!="Aggregates",]
p <- p[!is.na(p$iso3c),]
p<- subset(p, select=c("iso3c", POP))
```

Table 7.1: Data collected in millions of current USD and people, reference year 2023

Iso3	Countries	GDP	Population	Private Consump- tion	Government Consump- tion	Gross Fixed Capital Formation	Capital Stock
ABW	Aruba	3648.57	0.11	1900.44	713.75	0.00	0.00
AFG	Afghanistan	17152.23	41.45	16821.37	3638.76	2614.61	8663.71
AGO	Angola	84875.16	36.75	47857.70	4389.56	20182.54	298630.78
AIA	Anguilla	415.74	0.01	365.13	67.15	122.05	0.00
ALA	Åland Islands	0.00	0.03	0.00	0.00	0.00	0.00
ALB	Albania	23547.18	2.75	16531.61	2836.60	5663.07	60848.19
AND	Andorra	3785.07	0.08	2097.88	743.51	746.03	0.00
ARE	United Arab Emirates	514130.44	10.48	234509.98	63850.89	0.00	0.00
ARG	Argentina	646075.25	45.54	426081.34	105875.38	119976.77	1347499.25
ARM	Armenia	24085.75	2.96	15744.50	3407.31	5027.19	42355.42
ASM	American Samoa	0.00	0.05	0.00	0.00	0.00	0.00
ATA	Antarctica	0.00	0.00	0.00	0.00	0.00	0.00
ATF	French Southern Territories	0.00	0.00	0.00	0.00	0.00	0.00
ATG	Antigua and Barbuda	2005.79	0.09	1018.61	318.58	750.41	0.00
AUS	Australia	1728057.38	26.65	869883.19	368315.63	402523.25	5221043.00
AUT	Austria	511685.22	9.13	267094.91	104718.48	127415.96	1733541.50
AZE	Azerbaijan	72428.47	10.15	39100.41	10006.00	12603.00	159057.55
BDI	Burundi	2629.39	13.69	1996.78	806.00	343.15	5140.34
BEL	Belgium	644655.25	11.79	324705.41	153277.39	157595.66	2026296.25
BEN	Benin	19673.29	14.11	11926.05	1869.76	6712.88	45582.31
BES	Bonaire, Sint Eustatius and Saba	0.00	0.03	0.00	0.00	0.00	0.00
BFA	Burkina Faso	20324.62	23.03	13125.39	4059.86	3491.49	39495.63
BGD	Bangladesh	437415.34	171.47	299958.94	24780.32	135385.30	1097002.38
BGR	Bulgaria	102396.84	6.45	59110.96	18862.11	19140.33	198474.78
BHR	Bahrain	46192.26	1.58	17953.78	6750.40	12709.04	135263.27
BHS	Bahamas	15271.30	0.40	9681.40	2002.50	3325.20	49501.52
BIH	Bosnia and Herzegovina	27592.36	3.19	18853.89	5277.37	6366.66	65274.53
BLM	Saint Barthélemy	0.00	0.01	0.00	0.00	0.00	0.00
BLR	Belarus	72478.76	9.18	39089.83	12938.83	16347.85	254801.23
BLZ	Belize	3066.85	0.41	1927.57	482.91	631.66	6255.60
BMU	Bermuda	8579.24	0.06	3900.16	975.35	960.81	9694.85
BOL	Bolivia	45135.40	12.24	30913.43	8704.98	7882.94	86642.09
BRA	Brazil	2191131.75	211.14	1378754.88	417248.69	359586.09	5359326.00
BRB	Barbados	6720.73	0.28	5006.93	786.66	1084.77	0.00
BRN	Brunei Darussalam	15095.08	0.46	4165.45	3451.98	4441.79	66423.39
BTN	Bhutan	3019.25	0.79	1794.39	612.68	1343.95	16714.96
BVT	Bouvet Island	0.00	0.00	0.00	0.00	0.00	0.00
BWA	Botswana	19411.27	2.48	8326.30	5685.57	4976.54	62734.70
CAF	Central African Republic	2555.49	5.15	2488.15	213.01	372.97	5211.94
CAN	Canada	2173339.75	40.08	1181871.13	454346.31	496675.09	6425198.50
CCK	Cocos Islands	0.00	0.00	0.00	0.00	0.00	0.00
CHE	Switzerland	894424.81	8.89	456705.50	100689.17	230978.44	3039782.50

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Iso3	Countries	GDP	Population	Private Consump- tion	Government Consump- tion	Gross Fixed Capital Formation	Capital Stock
CHL	Chile	335518.06	19.66	202791.16	51332.05	81342.34	934263.63
CHN	China	18270356.00	1410.71	7229259.50	3140517.50	7391169.50	66451620.00
CIV	Côte d'Ivoire	79618.05	31.17	54452.64	7175.37	18424.82	161252.20
CMR	Cameroon	49279.41	28.37	36411.64	5215.89	9426.29	106947.66
COD	Congo, Democratic Republic	67006.76	105.79	42142.43	5266.43	21140.06	128885.25
COG	Congo	15321.06	6.18	6757.85	2006.95	3815.64	73559.44
COK	Cook Islands	366.21	0.01	203.60	28.73	66.29	0.00
COL	Colombia	366291.84	52.32	269704.38	53676.70	60492.77	957086.88
COM	Comoros	1430.52	0.85	1484.83	135.08	167.81	2549.34
CPV	Cabo Verde	2539.20	0.52	1952.16	551.19	0.00	0.00
CRI	Costa Rica	86497.95	5.11	55800.38	12865.27	13994.85	147793.73
CUB	Cuba	201986.00	11.02	123783.65	80140.54	14909.87	0.00
CUW	Curaçao	3281.42	0.16	2153.53	494.72	864.96	0.00
CXR	Christmas Island	0.00	0.00	0.00	0.00	0.00	0.00
CYM	Cayman Islands	7139.43	0.07	3933.36	820.92	1421.00	0.00
CYP	Cyprus	33886.93	1.34	20222.60	6314.82	7268.49	82046.20
CZE	Czechia	343206.56	10.86	150986.14	67469.12	93694.40	941051.94
DEU	Germany	4525704.00	83.90	2259530.25	960749.38	973012.00	13797442.00
DJI	Djibouti	3917.15	1.15	2770.21	666.45	960.81	7583.48
DMA	Dominica	659.31	0.07	482.13	143.64	254.18	0.00
DNK	Denmark	407091.91	5.95	185087.98	91520.47	91884.93	1229958.88
DOM	Dominican Republic	120456.24	11.33	82035.13	13585.95	34912.49	283039.88
DZA	Algeria	247626.16	46.16	101009.06	44394.29	81259.29	1053559.00
ECU	Ecuador	121147.05	17.98	79510.85	16456.16	24049.88	278491.13
EGY	Egypt	395926.06	114.54	312623.09	26877.47	59910.95	755786.13
ERI	Eritrea	2275.29	3.47	1650.33	396.93	169.15	0.00
ESH	Western Sahara	0.00	0.58	0.00	0.00	0.00	0.00
ESP	Spain	1620090.75	48.35	879142.75	315327.13	319318.09	5029385.50
EST	Estonia	41291.25	1.37	21582.34	8524.00	11531.45	112204.73
ETH	Ethiopia	159746.45	128.69	126055.28	10093.35	33212.70	0.00
FIN	Finland	294950.63	5.58	157497.59	75583.92	68906.01	1050515.25
FJI	Fiji	5442.05	0.92	3899.95	1132.13	1010.39	13626.93
FLK	Falkland Islands (Malvinas)	0.00	0.00	0.00	0.00	0.00	0.00
FRA	France	3051831.50	68.29	1628357.00	705692.13	704762.13	10228699.00
FRO	Faroe Islands	3907.32	0.05	1585.31	1067.58	0.00	0.00
FSM	Micronesia, Federated States	443.92	0.11	307.17	213.37	129.88	0.00
GAB	Gabon	20055.72	2.48	6685.09	2365.35	3516.63	62027.08
GBR	United Kingdom of Great Britain and Northern Ireland	3369862.00	68.49	2064938.00	692416.50	594177.63	8596199.00
GEO	Georgia	30777.83	3.72	21996.83	3739.06	6604.94	54594.56
GGY	Guernsey	0.00	0.06	0.00	0.00	0.00	0.00
GHA	Ghana	80547.15	33.79	68825.14	4429.56	7773.13	141890.89
GIB	Gibraltar	0.00	0.04	0.00	0.00	0.00	0.00
GIN	Guinea	22407.62	14.41	15830.27	3023.14	5490.23	36066.41

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Iso3	Countries	GDP	Population	Private Consump- tion	Government Consump- tion	Gross Fixed Capital Formation	Capital Stock
GLP	Guadeloupe	0.00	0.38	0.00	0.00	0.00	0.00
GMB	Gambia	2396.11	2.70	2058.69	176.66	653.84	5326.53
GNB	Guinea-Bissau	2077.82	2.15	1645.45	334.33	448.01	4832.97
GNQ	Equatorial Guinea	12337.55	1.85	6498.84	3232.86	1148.74	48167.01
GRC	Greece	243498.33	10.41	162899.56	46963.14	36927.63	725389.56
GRD	Grenada	1323.99	0.12	725.02	129.24	587.59	0.00
GRL	Greenland	3326.54	0.06	1084.02	1387.51	1153.87	12619.39
GTM	Guatemala	104368.41	18.12	91183.98	11732.83	17054.83	151653.00
GUF	French Guiana	0.00	0.30	0.00	0.00	0.00	0.00
GUM	Guam	0.00	0.17	0.00	0.00	0.00	0.00
GUY	Guyana	16918.50	0.83	8505.06	2322.32	2419.71	0.00
HKG	Hong Kong, China's SAR ⁵	381066.41	7.54	266618.16	50712.41	64566.14	1058205.25
HMD	Heard and McDonald Islands	0.00	0.00	0.00	0.00	0.00	0.00
HND	Honduras	34355.80	10.64	29868.55	5129.09	8161.64	78919.02
HRV	Croatia	84393.80	3.86	48327.71	17964.30	18952.86	202957.31
HTI	Haiti	19850.59	11.64	19885.04	1234.07	2750.04	33719.93
HUN	Hungary	214022.58	9.59	105153.86	42545.96	54773.47	556587.31
IDN	Indonesia	1371169.25	281.19	746266.50	102218.77	399732.41	4146840.75
IMN	Isle of Man	0.00	0.08	0.00	0.00	0.00	0.00
IND	India	3638489.00	1438.07	2189937.00	374961.66	1107048.38	10147817.00
IOT	British Indian Ocean Territory	0.00	0.00	0.00	0.00	0.00	0.00
IRL	Ireland	551394.88	5.31	147584.13	67099.77	127839.60	1449640.88
IRN	Iran, Islamic Republic	404625.66	90.61	203506.59	52112.59	108502.61	1822046.63
IRQ	Iraq	268881.06	45.07	106973.88	47128.24	41084.59	431878.06
ISL	Iceland	31452.22	0.39	15507.91	7962.72	7807.78	76081.40
ISR	Israel	512184.63	9.85	245632.16	114268.38	124771.90	1229066.13
ITA	Italy	2304605.25	58.99	1342801.50	409253.69	518936.28	7339456.00
JAM	Jamaica	19423.36	2.84	14685.39	2588.03	4629.62	0.00
JEY	Jersey	0.00	0.10	0.00	0.00	0.00	0.00
JOR	Jordan	51088.48	11.44	40601.46	8354.94	8144.36	0.00
JPN	Japan	4213167.00	124.52	0.00	0.00	1095932.75	25438000.00
KAZ	Kazakhstan	261840.09	20.33	134700.73	29186.38	69435.74	590020.75
KEN	Kenya	108038.59	55.34	83134.95	12872.92	18616.05	210647.14
KGZ	Kyrgyzstan	15180.84	7.10	13400.01	2426.07	3344.72	29583.64
KHM	Cambodia	42335.65	17.42	25539.85	2573.10	13835.03	105440.40
KIR	Kiribati	288.61	0.13	326.86	161.35	73.35	0.00
KNA	Saint Kitts and Nevis	1056.75	0.05	717.95	202.11	327.36	0.00
KOR	Republic of Korea	1712792.88	51.71	838027.75	323693.16	550840.69	7036885.50
KWT	Kuwait	165384.41	4.85	59101.29	38464.29	32023.62	0.00
LAO	Laos	15843.16	7.66	10027.84	1637.19	4314.58	0.00
LBN	Lebanon	20078.62	5.77	27314.36	1037.87	381.00	117582.77
LBR	Liberia	4390.00	5.49	3870.66	589.36	775.00	0.00
LBY	Libya	45096.46	7.31	14621.38	15911.67	7432.06	156669.84

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⁵Special Administrative Region

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Iso3	Countries	GDP	Population	Private Consump- tion	Government Consump- tion	Gross Fixed Capital Formation	Capital Stock
LCA	Saint Lucia	2430.17	0.18	1511.54	262.91	514.74	0.00
LIE	Liechtenstein	8287.75	0.04	4228.31	965.34	2140.25	0.00
LKA	Sri Lanka	83716.14	22.04	59267.20	5673.85	14935.40	222287.50
LSO	Lesotho	2117.96	2.31	1966.83	753.66	600.36	7918.12
LTU	Lithuania	79789.88	2.87	45738.91	13784.09	18896.73	157847.02
LUX	Luxembourg	87574.02	0.67	27629.83	16284.65	14094.74	187597.05
LVA	Latvia	42572.15	1.88	26673.09	8603.87	10507.25	110143.45
MAC	Macao, China's SAR	45803.07	0.68	13773.74	6308.14	6686.77	101944.62
MAF	Saint Martin, French Part	0.00	0.03	0.00	0.00	0.00	0.00
MAR	Morocco	144417.11	37.71	88617.25	26148.50	36708.89	497689.03
MCO	Monaco	9995.35	0.04	5477.62	2403.33	2312.45	0.00
MDA	Republic of Moldova	16711.91	2.46	14331.22	2996.50	3248.21	32008.29
MDG	Madagascar	15869.95	31.20	11358.06	2483.48	3150.69	43472.70
MDV	Maldives	6590.89	0.53	3388.02	1128.30	2304.06	15911.55
MEX	Mexico	1793798.88	129.74	1252813.38	199132.77	429274.31	4536947.00
MHL	Marshall Islands	259.30	0.04	183.22	138.74	52.38	677.59
MKD	North Macedonia	15763.60	1.83	10794.51	2352.62	3900.35	39248.77
MLI	Mali	24621.54	23.77	17849.78	3215.48	5339.62	58587.06
MLT	Malta	22210.72	0.55	10382.23	3708.75	4204.49	42959.77
MMR	Myanmar	66757.62	54.13	41004.43	13207.37	20964.64	0.00
MNE	Montenegro	7530.59	0.62	5507.77	1348.26	1478.08	16184.67
MNG	Mongolia	20325.12	3.48	9049.20	2643.56	5147.48	50036.54
MNP	Northern Mariana Islands	0.00	0.05	0.00	0.00	0.00	0.00
MOZ	Mozambique	20954.22	33.64	16344.77	3600.90	0.00	0.00
MRT	Mauritania	10651.71	5.02	5892.81	1829.15	2498.99	35144.47
MSR	Montserrat	80.43	0.00	63.51	51.69	20.85	0.00
MTQ	Martinique	0.00	0.35	0.00	0.00	0.00	0.00
MUS	Mauritius	14101.20	1.26	9846.44	2020.56	2851.64	38143.62
MWI	Malawi	12712.15	21.10	11861.86	1306.60	1802.85	0.00
MYS	Malaysia	399705.13	35.13	241745.63	47761.84	76904.65	1106479.75
MYT	Mayotte	0.00	0.32	0.00	0.00	0.00	0.00
NAM	Namibia	12408.27	2.96	9151.02	2699.46	3238.23	38853.40
NCL	New Caledonia	10139.99	0.29	6602.15	2471.73	2981.02	0.00
NER	Niger	16698.79	26.16	10676.93	2244.18	3550.95	43303.01
NFK	Norfolk Island	0.00	0.00	0.00	0.00	0.00	0.00
NGA	Nigeria	363846.34	227.88	230349.58	15551.71	128650.20	0.00
NIC	Nicaragua	17805.84	6.82	13934.50	2296.10	3819.32	37334.05
NIU	Niue	0.00	0.00	0.00	0.00	0.00	0.00
NLD	Netherlands	1154361.25	17.88	486433.56	282854.47	231979.70	3119369.25
NOR	Norway	482949.72	5.52	182146.30	106479.74	104572.10	1623114.25
NPL	Nepal	41047.77	29.69	35364.23	2719.35	10093.79	104929.94
NRU	Nauru	151.46	0.01	171.53	84.67	38.49	0.00
NZL	New Zealand	255194.97	5.25	0.00	0.00	63043.41	694564.44
OMN	Oman	105895.71	5.05	40068.92	20179.19	25785.18	341075.69
PAK	Pakistan	337885.53	247.50	281490.75	34827.77	41607.16	606252.63
PAN	Panama	83318.18	4.46	38891.50	10154.67	26894.29	250231.19

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Iso3	Countries	GDP	Population	Private Consump- tion	Government Consump- tion	Gross Fixed Capital Formation	Capital Stock
PCN	Pitcairn	0.00	0.00	0.00	0.00	0.00	0.00
PER	Peru	266958.72	33.85	170228.80	36210.82	56579.02	635853.63
PHL	Philippines	437055.63	114.89	334429.91	62154.88	103295.94	957739.69
PLW	Palau	281.85	0.02	212.75	115.26	103.95	0.00
PNG	Papua New Guinea	30816.37	10.39	17961.01	7006.45	2321.22	0.00
POL	Poland	812451.13	36.69	468343.25	153945.11	145439.20	1565502.75
PRI	Puerto Rico	118375.00	3.20	91255.20	9961.60	16574.50	213981.95
PRK	North Korea	16446.63	26.42	0.00	0.00	0.00	0.00
PRT	Portugal	289696.97	10.58	179660.16	48793.37	58152.52	802063.44
PRY	Paraguay	43118.05	6.84	28454.34	5228.81	8900.45	102678.37
PSE	State of Palestine	17847.90	5.17	17665.70	3613.90	4293.20	48096.64
PYF	French Polynesia	6402.22	0.28	4508.50	1950.21	1390.16	17394.47
QAT	Qatar	213002.81	2.66	46055.38	34647.16	75752.84	0.00
REU	Réunion	0.00	0.87	0.00	0.00	0.00	0.00
ROU	Romania	350775.84	19.06	217036.59	60118.60	94634.44	801351.56
RUS	Russian Federation	2071505.75	143.83	1020415.13	372006.25	455720.81	5295597.00
RWA	Rwanda	14331.72	13.95	10680.50	2335.92	3821.35	30304.49
SAR	Sark	0.00	0.00	0.00	0.00	0.00	0.00
SAU	Saudi Arabia	1218584.50	33.70	530677.06	255094.94	339780.28	2769879.00
SDN	Sudan	39898.29	50.04	32181.98	6952.09	866.91	98617.63
SEN	Senegal	30696.33	18.08	20703.93	4852.14	10861.95	85475.50
SGP	Singapore	505439.50	5.92	159663.59	50539.97	113190.52	1222668.50
SGS	South Georgia and the South Sandwich Islands	0.00	0.00	0.00	0.00	0.00	0.00
SHN	Saint Helena	0.00	0.01	0.00	0.00	0.00	0.00
SJM	Svalbard and Jan Mayen Islands	0.00	0.00	0.00	0.00	0.00	0.00
SLB	Solomon Islands	1660.90	0.80	1044.36	466.56	387.13	0.00
SLE	Sierra Leone	6411.79	8.46	5530.13	352.90	1270.45	15638.04
SLV	El Salvador	33853.94	6.31	26802.89	6453.80	7435.35	69032.38
SMR	San Marino	1987.45	0.03	687.92	373.98	353.99	0.00
SOM	Somalia	10968.52	18.36	13549.22	802.03	2454.58	13922.74
SPM	Saint Pierre and Miquelon	0.00	0.01	0.00	0.00	0.00	0.00
SRB	Serbia	81342.66	6.62	50920.79	13931.61	19012.18	155000.94
SSD	South Sudan	4629.15	11.48	6097.20	655.07	184.83	0.00
STP	São Tomé and Príncipe	678.98	0.23	580.74	102.82	150.66	0.00
SUR	Suriname	3455.15	0.63	1265.23	333.75	1603.33	0.00
SVK	Slovakia	133896.94	5.43	78258.74	26712.94	28233.22	344870.22
SVN	Slovenia	69148.47	2.12	36181.20	13295.08	14753.04	176305.50
SWE	Sweden	585489.94	10.54	256062.45	152373.17	146435.28	2150094.00
SWZ	Eswatini	4604.17	1.23	2946.40	899.88	740.62	6469.71
SXM	Sint Maarten, Dutch part	1627.78	0.04	1145.49	307.84	510.57	0.00
SYC	Seychelles	2187.38	0.12	1511.17	532.64	450.04	5909.18
SYR	Syrian Arab Republic	19993.44	23.59	22200.29	1348.86	1084.78	0.00

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Iso3	Countries	GDP	Population	Private Consump- tion	Government Consump- tion	Gross Fixed Capital Formation	Capital Stock
TCA	Turks and Caicos Islands	1638.65	0.05	660.95	354.45	268.45	0.00
TCD	Chad	19107.69	19.32	12105.00	1724.45	2845.19	42611.17
TGO	Togo	9171.26	9.30	7161.04	1153.85	2105.22	19269.03
THA	Thailand	515906.28	71.70	296550.31	85725.47	118303.51	1605310.25
TJK	Tajikistan	12244.17	10.39	10968.37	1305.50	3465.14	31028.29
TKL	Tokelau	0.00	0.00	0.00	0.00	0.00	0.00
TKM	Turkmenistan	60628.86	7.36	0.00	7704.66	11106.29	136686.34
TLS	Timor-Leste	2079.92	1.38	1456.86	1100.63	360.97	6058.94
TON	Tonga	508.74	0.10	547.64	148.19	138.65	1759.78
TTO	Trinidad and Tobago	25489.37	1.37	15864.53	3866.30	3237.54	0.00
TUN	Tunisia	48196.28	12.20	37761.65	9372.64	7579.44	154711.84
TUR	Turkey	1118253.00	85.33	664051.13	146467.16	356237.78	3456932.00
TUV	Tuvalu	62.28	0.01	30.44	57.69	16.81	0.00
TWN	Chinese Taipei	757276.44	23.34	368489.91	103720.66	185581.61	2262909.00
TZA	Tanzania	79062.41	66.62	42788.10	6925.57	33780.85	268254.69
UGA	Uganda	48768.96	48.66	34923.57	4665.32	10770.32	108190.25
UKR	Ukraine	181221.52	37.73	110513.38	75851.52	36041.07	401944.31
UMI	U.S. Minor Outlying Islands	0.00	0.00	0.00	0.00	0.00	0.00
URY	Uruguay	77991.66	3.39	0.00	0.00	13411.48	148208.06
USA	United States of America	27720708.00	336.81	18822768.00	3723954.00	5929632.00	67592424.00
UZB	Uzbekistan	102641.88	35.65	70256.43	14867.14	33285.94	254324.98
VAT	Holy See	0.00	0.00	0.00	0.00	0.00	0.00
VCT	Saint Vincent and the Grenadines	1072.24	0.10	701.26	187.29	404.95	0.00
VEN	Venezuela	139394.91	28.30	129798.60	12103.73	17670.91	0.00
VGB	British Virgin Islands	1505.86	0.04	524.02	126.11	359.83	0.00
VIR	U.S. Virgin Islands	0.00	0.10	0.00	0.00	0.00	0.00
VNM	Viet Nam	433857.69	100.35	235637.30	38385.84	130624.72	1081290.25
VUT	Vanuatu	1126.31	0.32	804.10	269.07	354.82	0.00
WLF	Wallis and Futuna Islands	0.00	0.01	0.00	0.00	0.00	0.00
WSM	Samoa	938.19	0.22	822.79	170.31	323.86	2977.70
XKX	Kosovo	10468.22	1.68	8806.49	1318.93	3295.45	27342.72
YEM	Yemen	8757.94	39.39	10100.88	1132.93	1397.35	0.00
ZAF	South Africa	380699.28	63.21	245156.30	73663.65	56856.35	1031364.56
ZMB	Zambia	27577.96	20.72	12990.63	3671.39	7290.90	80638.49
ZWE	Zimbabwe	35231.37	16.34	26871.98	5316.14	4297.47	42646.76