6. Real measures of income

As described in earlier sections, measures of income, such as national or disposable income are generally preferred, in theory, to GDP, in analyses of well-being both in nominal and real terms. However there are some specificities related to the calculation and associated interpretations of real income, as opposed to real GDP say, that are worth mentioning.

Definition

Whereas GDP can be measured relatively simply in volume terms because price and quantity components exist, at least in principle, for all of the flows in GDP (via the expenditure or production approach), this is not the case for the additional income components that reflect the difference between GNI say and GDP; which cannot be decomposed into price and quantity dimensions. These flows can be measured in "real" terms through the use of an appropriate price index that measures their real purchasing power in relation to a selected basket of goods and services. But moving from real GDP to real GNI is not simply a case of choosing an appropriate price index to deflate the additional income components. Another adjustment that takes account of changes in the terms of trade is needed; which is only relevant for real measures.

Gross Domestic Income (GDI), as opposed to Gross National Income, in current prices is exactly equal to GDP. But if the prices of a country's exports rise faster (or fall more slowly) than the prices of its imports (that is, if its terms of trade improve) fewer exports are needed to pay for a given volume of imports. Thus, an improvement in the terms of trade makes it possible for an increased volume of goods and services to be purchased by residents out of the incomes generated by a given level of domestic production. This improvement (or otherwise, e.g. if the prices of imports rise faster than exports), known as trading gains and losses from changes in the terms of trade, reflects the difference between real GDI and real GDP. It follows that it also forms part of the difference between real GDP and real national income (GNI and NNI) and disposable (and adjusted disposable) income.

These trading gains or losses are equal to the current trade balance deflated by a single price index, minus real exports, plus real imports (where estimates of real exports and real imports are consistent with those used in real GDP). And so real GDI is equal to final consumption (households, NPISH and general government final consumption) + real gross capital formation + the "real" trade balance.

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Comparability

The comparability of current price measures of income is described in the previous sections. The choice of the single price index used to deflate the current trade balance varies across countries. The SNA recommends that the choice of the price index is left to statistical authorities to decide on the basis of national circumstances. Three approaches are commonly used. The first is to use either the overall import (or export) price index. The second is to use a weighted average of the overall import and export price indices. The third method, which is the approach used by many countries for simplicity, is a general price index (typically this is the implied deflator for gross domestic final expenditure). The advantage of this third approach is that the income components that reflect the difference between GNI (and other income measures) and GDP can also be (and usually are) meaningfully deflated using this same general price index.

Source

 OECD (2010), National Accounts of OECD Countries 2010, Volume I, Main Aggregates, OECD Publishing, http://dx.doi.org/10.1787/na_vol_1-2010-en.

Online database

• OECD (2010), "Aggregate National Accounts: Disposable income and net lending/borrowing", OECD National Accounts Statistics (database), http://dx.doi.org/10.1787/data-00002-en.

Further reading

- Eurostat (2001), Handbook on Price and Volume Measures in National Accounts, Eurostat, Luxembourg.
- Lequiller, F. and D. Blades (2007), *Understanding* National Accounts, OECD Publishing, http://dx.doi.org/10.1787/9789264027657-en.
- OECD (2000), System of National Accounts, 1993
 Glossary, OECD Publishing, http://dx.doi.org/10.1787/9789264180871-en.
- UN, OECD, IMF and Eurostat (eds.) (1993), System of National Accounts 1993, United Nations, Geneva, http://unstats.un.org/unsd/sna1993.

Table 6.1. Real net national income index

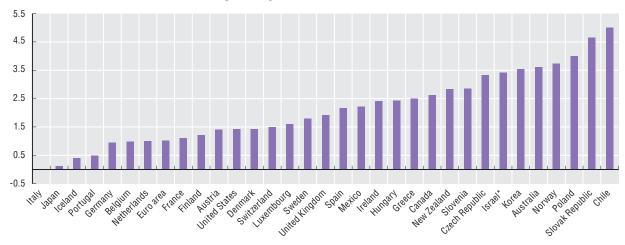
Year 2000 = 100

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Australia	85	89	93	98	100	104	108	115	119	125	131	137	140	139 e
Austria	91	92	95	97	100	100	103	104	107	109	113	116	117	112
Belgium	90	93	95	97	100	100	102	102	104	105	107	110	109	107
Canada	81	85	87	92	100	100	102	107	112	118	123	126	129	119
Chile	87 e	94 e	97 e	95 e	100	102 e	104 e	109	122	134	148	159	159	156 e
Czech Republic	98	96	99	99	100	103	106	111	117	125	132	139	145	137
Denmark	90	93	95	97	100	101	102	103	108	113	118	118	117	112
Finland	79	86	91	95	100	103	105	105	110	111	115	120	119	108
France	88	90	94	97	100	102	102	103	106	107	109	113	112	109
Germany	94	94	96	98	100	101	101	102	105	106	110	113	113	108
Greece	88 e	92 e	95 e	97 e	100	105	109	114	119	120	124	129	129	124
Hungary	84	87	93	95	100	105	112	119	124	126	129	128	129	121
Iceland	80	86	94	97	100	103	107	107	112	122	122	130	103	101
Ireland	72	79	87	92	100	103	107	114	117	124	134	139	131	116
Israel*	85	88	92	94	100	102	100	100	106	113	120	127	127	132
Italy	93	95	97	98	100	102	102	103	104	104	106	107	103	98
Japan	100	101	98	98	100	99	100	100	102	105	106	108	103	100 e
Korea	91	93	86	93	100	104	112	115	119	121	126	132	131	132
Luxembourg	84	89	89	97	100	102	101	100	119	125	120	139	132	114
Mexico	77 e	84 e	87 e	92 e	100	100 e	102 e	103	107	111	117	122	123	114 e
Netherlands	83	88	89	95	100	101	101	102	105	105	112	115	113	105
New Zealand	89	92	95	98	100	106	111	118	122	125	126	133	130	130 e
Norway	77	82	80	86	100	102	100	101	109	121	130	130	138	124
Poland	82	88	93	97	100	101	102	105	110	116	123	131	141	143
Portugal	85	89	95	99	100	101	104	104	105	104	104	107	105	104
Slovak Republic	89	95	99	97	100	104	108	106	114	124	135	151	159	152
Slovenia	85	89	92	98	100	104	109	114	118	122	129	137	139	130
Spain	85	88	92	97	100	103	107	111	113	117	121	124	123	120
Sweden	87	89	93	97	100	100	102	107	109	113	119	125	125	115
Switzerland	89	92	95	97	100	97	97	103	105	109	111	107	98	112
Turkey														
United Kingdom	85	89	94	96	100	103	108	111	114	116	118	123	124	116
United States	82	87	92	96	100	101	102	104	108	112	115	115	113	110
Euro area	90	92	95	98	100	102	103	104	107	108	111	114	113	108
OECD-Total														

StatLink http://dx.doi.org/10.1787/888932351740

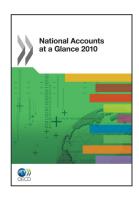
Figure 6.1. Real net national income

Average annual growth rates between 1999 and 2009



StatLink http://dx.doi.org/10.1787/888932351151

^{*} The statistical data for Israel are supplied by and under the responsibility of the relevant Israeli authorities. The use of such data by the OECD is without prejudice to the status of the Golan Heights, East Jerusalem and Israeli settlements in the West Bank under the terms of international law.



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