### **GROSS DOMESTIC PRODUCT (GDP)**

#### 2. GDP growth

Changes in the size of economies are usually measured by changes in the volume (often referred to as real) of GDP. Real reflects the fact that changes in GDP due to inflation are removed. This provides a measure of changes in the volume of production of an economy.

#### Definition

Converting nominal values of GDP to real values requires a set of detailed price indices, implicit or directly collected. When applied to the nominal value of transactions, the corresponding volume changes can be captured. The detailed volume changes for goods and services - typically several hundred - are then aggregated to yield an overall change in the volume of GDP. In the past, most countries used fixed weights for this aggregation and the base year to which weights related was only modified every five to ten years. It is important to recognise that growth rates are not invariant to the choice of this reference period and measures of growth could turn out to be biased for reporting years that were remote from the base year.

Since the 1993 System of National Accounts it has therefore been recommended that weights should be representative of the periods for which growth rates are calculated. This means that new weights should be introduced every year, giving rise to chain-linked (volume) indices (see Comparability, below).

#### Comparability

As described in Section 1, comparability of nominal values of GDP across countries is good. There is generally some variability in how countries calculate their volume estimates of GDP, particularly in respect of government consumption, but this doesn't necessarily mean that growth rates are less comparable.

With the exception of Mexico, all OECD countries derive their annual estimates of real GDP using annually chain-linked volume indices (that is the fixed prices/weights are updated every year). Mexico, like many non-OECD countries, revise their fixed weights less frequently – the last revision occurring after ten years. Such practices however tend to lead to biased growth rates, usually upward.

#### Source

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#### **Online database**

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#### **Further reading**

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# **GROSS DOMESTIC PRODUCT (GDP)**

2. GDP growth

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Annual growth rates in percentage														
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Australia	4.1	3.9	4.5	5.2	4.0	1.9	3.8	3.2	4.0	2.8	3.0	3.3	3.7	2.3 e
Austria	2.5	2.2	2.1	3.6	3.3	3.7	0.5	1.6	0.8	2.5	2.5	3.5	3.5	2.0
Belgium	2.4	1.2	3.5	1.7	3.4	3.7	0.8	1.5	1.0	3.0	1.8	3.0	2.8	1.1
Canada	2.8	1.6	4.2	4.1	5.5	5.2	1.8	2.9	1.9	3.1	2.9	3.1	2.7	0.4 e
Czech Republic	5.9	4.0	-0.7	-0.8	1.3	3.6	2.5	1.9	3.6	4.5	6.3	6.8	6.1	2.5
Denmark	3.1	2.8	3.2	2.2	2.6	3.5	0.7	0.5	0.4	2.3	2.4	3.3	1.6	-1.2
Finland	3.9	3.7	6.2	5.2	3.9	5.1	2.7	1.6	1.8	3.7	2.8	4.9	4.2	1.0
France	2.1	1.1	2.2	3.5	3.3	3.9	1.9	1.0	1.1	2.5	1.9	2.2	2.3	0.4
Germany	1.9	1.0	1.8	2.0	2.0	3.2	1.2	0.0	-0.2	1.2	0.8	3.2	2.5	1.3
Greece	2.1 e	2.4 e	3.6 e	3.4 e	3.4 e	4.5 e	4.2	3.4	5.9	4.6	2.2	4.5	4.5	2.0
Hungary	1.5	1.0	4.3	5.2	4.2	4.9	4.1	4.4	4.3	4.9	3.5	4.0	1.0	0.6
Iceland	0.1	4.8	4.9	6.3	4.1	4.3	3.9	0.1	2.4	7.7	7.4	4.5	5.5	0.3
Ireland	9.6	8.1	11.5	8.4	10.7	9.4	5.7	6.5	4.4	4.6	6.2	5.4	6.0	-3.0
Italy	2.8	1.1	1.9	1.4	1.5	3.7	1.8	0.5	-0.0	1.5	0.7	2.0	1.6	-1.0
Japan	2.0	2.7	1.6	-2.0	-0.1	2.9	0.2	0.3	1.4	2.7	1.9	2.0	2.4	-0.7 e
Korea	9.2 e	7.0 e	4.7 e	-6.9 e	9.5 e	8.5 e	4.0	7.2	2.8	4.6	4.0	5.2	5.1	2.2
Luxembourg	1.4	1.5	5.9	6.5	8.4	8.4	2.5	4.1	1.5	4.4	5.4	5.6	6.5	0.0
Mexico	-6.2 e	5.2 e	6.8 e	5.0 e	3.8 e	6.6 e	-0.0 e	0.8 e	1.4 e	4.0	3.3	5.0	3.4	1.3 e
Netherlands	3.1	3.4	4.3	3.9	4.7	3.9	1.9	0.1	0.3	2.2	2.0	3.4	3.6	2.0
New Zealand	4.2	3.5	1.7	0.5	5.3	2.4	3.6	4.9	4.3	3.8	3.0	1.8	3.1	-1.1 e
Norway	4.2	5.1	5.4	2.7	2.0	3.3	2.0	1.5	1.0	3.9	2.7	2.3	3.1	2.1
Poland	7.0	6.2	7.1	5.0	4.5	4.3	1.2	1.4	3.9	5.3	3.6	6.2	6.8	5.0
Portugal	4.3	3.6	4.2	4.9	3.8	3.9	2.0	0.8	-0.8	1.5	0.9	1.4	1.9	-0.0
Slovak Republic	5.8	6.9	4.4	4.4	0.0	1.4	3.4	4.8	4.7	5.2	6.5	8.5	10.4	6.4
Spain	2.8	2.4	3.9	4.5	4.7	5.0	3.6	2.7	3.1	3.3	3.6	4.0	3.6	0.9
Sweden	4.0	1.5	2.5	3.8	4.6	4.4	1.1	2.4	1.9	4.1	3.3	4.2	2.6	-0.2
Switzerland	0.4	0.6	2.1	2.6	1.3	3.6	1.2	0.4	-0.2	2.5	2.6	3.6	3.6	1.8
Turkey	7.2 e	7.0 e	7.5 e	3.1	-3.4	6.8	-5.7	6.2	5.3	9.4	8.4	6.9	4.7	0.9
United Kingdom	3.0	2.9	3.3	3.6	3.5	3.9	2.5	2.1	2.8	2.8	2.1	2.8	3.0	0.7
United States	2.5	3.8	4.5	4.4	4.9	4.2	1.1	1.8	2.5	3.6	3.1	2.7	2.1	0.4
Euro area		1.6	2.6	2.8	2.9	3.9	1.9	0.9	0.8	2.2	1.7	3.0	2.8	0.7
OECD-Total	2.5 e	3.1 e	3.6 e	2.7 e	3.5 e	4.2 e	1.3 e	1.7 e	2.0 e	3.2	2.7	3.1	2.8	0.6 e

StatLink and http://dx.doi.org/10.1787/740522845022



#### Figure 2.1. Gross domestic product, volume

Average annual growth rates between 1998 and 2008

StatLink ans http://dx.doi.org/10.1787/738560831304



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