

## Tracking the G7 and Australia

## Cross-Country Comparisons

Annualized Percentage Change Since Most Recent Business Cycle Peak
(Last observation date is in parentheses.)

| ECONOMIC INDICATORS |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Business Cycle <br> Peak | Industrial <br> Production | Employment | Real Income ${ }^{1}$ | Real Retail <br> Sales |  |
| United States | Dec 07 | $-5.0(1 / 10)$ | $-3.0(1 / 10)$ | $-2.7(12 / 09)$ | $-4.0(1 / 10)$ |  |
| Australia |  |  |  |  |  |  |
| Canada | May 08 | $0.1(09 \mathrm{Q} 3)$ | $0.9(12 / 09)$ | $-1.9(09 \mathrm{Q} 3)$ | $3.1(09 \mathrm{Q} 4)$ |  |
| France | Jul 07 | $-7.7(11 / 09)$ | $0.0(12 / 09)$ | $2.1(09 \mathrm{Q} 1)$ | $-0.3(11 / 09)$ |  |
| Germany | Feb 08 | $-9.5(10 / 09)$ | $-0.5(09 \mathrm{Q} 3)$ | $0.4(09 \mathrm{Q} 2)$ | $-3.9(11 / 09)$ |  |
| Italy | Mar 08 | $-11.7(10 / 09)$ | $-0.4(09 \mathrm{Q} 3)$ | $0.7(09 \mathrm{Q} 3)$ | $-1.5(10 / 09)$ |  |
| Japan | Apr 08 | $-14.3(11 / 09)$ | $-1.8(09 \mathrm{Q} 3)$ | $-0.9(09 \mathrm{Q} 3)$ |  |  |
| United Kingdom | Mar 08 | $-10.0(12 / 09)$ | $-1.3(12 / 09)$ | $0.3(09 \mathrm{Q} 1)$ | $0.1(11 / 09)$ |  |
|  | Feb 08 | $-10.4(8 / 09)$ | $-1.3(09 \mathrm{Q} 3)$ | $-2.6(09 \mathrm{Q} 3)$ | $-1.7(8 / 09)$ |  |

REAL GROSS DOMESTIC PRODUCT AND COMPONENTS

|  | Business Cycle Peak | GDP | Personal Consumption Expenditures ${ }^{2}$ | Gross Private Domestic Investment ${ }^{3}$ | Government Consumption Expenditures and Gross Investment ${ }^{4}$ | Exports of Goods and Services | Imports of Goods and Services |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| United States | Dec 07 | -0.9 (09Q4) | -0.3 (09Q4) | -13.1 (09Q4) | 2.3 (09Q4) | -2.6 (09Q4) | -7.2 (09Q4) |
| Australia | May 08 | 0.6 (09Q3) | 1.5 (09Q3) | -2.2 (09Q3) | 2.6 (09Q2) | -1.6 (09Q3) | -7.0 (09Q3) |
| Canada | Jul 07 | -1.4 (09Q1) | 1.2 (09Q1) | -4.3 (09Q3) | 2.8 (09Q1) | -11.5 (09Q1) | -11.5 (09Q1) |
| France | Feb 08 | -2.0 (09Q3) | 0.6 (09Q3) | -6.8 (09Q3) | 1.7 (09Q3) | -9.0 (09Q3) | -8.3 (09Q3) |
| Germany | Mar 08 | -3.8 (09Q3) | -0.1 (09Q3) | -6.4 (09Q3) | 2.2 (09Q3) | -10.6 (09Q3) | -5.8 (09Q3) |
| Italy | Apr 08 | -4.4 (09Q3) | -1.3 (09Q3) | -12.8 (09Q3) | 1.2 (09Q3) | -17.3 (09Q3) | -13.6 (09Q3) |
| Japan | Mar 08 | -5.2 (09Q3) | -1.2 (09Q3) | -13.4 (09Q3) | 0.4 (09Q3) | -19.4 (09Q3) | -12.3 (09Q3) |
| United Kingdom | Feb 08 | -4.0 (09Q3) | -3.1 (09Q2) | -13.7 (09Q2) | 2.4 (09Q2) | -10.0 (09Q2) | -12.9 (09Q2) |

SOURCES: Board of Governors of the Federal Reserve System, U.S. Department of Labor: Bureau of Labor Statistics, U.S. Department of Commerce: Census Bureau, U.S. Department of Commerce: Bureau of Economic Analysis, Organisation for Economic Co-Operation and Development, Haver Analytics.

NOTE: Columns labels use U.S. concepts; International concepts are noted in the footnotes.

1 Real Compensation
2 Real Private Consumption Expenditures
3 Real Gross Fixed Capital Formation
4 Real Government Final Consumption Expenditures

# Tracking the Global Recession: Economic Indicators - United States 



Data last updated 2010-02-19.
NOTE: The charts plot four main economic indicators tracked by the NBER dating committee; each series is indexed to 100 at the start of the recession. For industrial production, employment, and real retail sales, the average series includes the 10 recessions starting with the November 1948 business cycle peak. For real income, the average starts with the April 1960 peak. For additional information, see the Federal Reserve Bank of St. Louis Economic Synopses, 2009, No. 4.

SOURCES: Industrial Production, Industrial Production Index (INDPRO); Real Income, Personal Income in current dollars (PI) less Personal Current Transfer Receipts (PCTR) deflated by the Personal Consumption Expenditure: Chain-type Price Index (PCEPI); Employment, Total Nonfarm Payrolls: All Employees (PAYEMS); Real Retail Sales, Retail Sales [SIC-basis] (RETAIL) and Retail Sales: Retail and Food Services Sales [NAICS-basis] (RSAFS) ${ }^{1}$ deflated by the Consumer Price Index for All Urban Consumers: All Items (CPIAUCSL).

[^0]
# Tracking the Global Recession: GDP Data - United States 



Data last updated 2010-01-29.

NOTE: The charts plot Real Gross Domestic Product (SAAR, Chn. 2005\$) and its major components; each series is indexed to 100 at the start of the recession. The current recession (red line) started in the fourth quarter of 2007. The solid blue line indicates the average over the past ten recessions. The two dashed lines report the highest and lowest values recorded across the past ten recessions.

SOURCES: Real Gross Domestic Product (GDPC96); Real Personal Consumption Expenditures (PCECC96); Real Gross Private Domestic Investment (GPDIC96); Real Government Consumption Expenditures \& Gross Investment (GCEC1); Real Exports of Goods \& Services (EXPGSC96); Real Imports of Goods \& Services (IMPGSC96).

## Tracking the Global Recession: Economic Indicators - Australia



Data last updated 2010-01-19.
NOTE: The charts plot four main economic indicators similar to those tracked by the NBER dating committee for the U.S.; each series is indexed to 100 at the business cycle peak. The red line indicates the current recession. The solid blue line indicates the average of the previous seven recessions, starting with the April 1977 peak. The two dashed lines report the highest and lowest values recorded across these previous recessions.

SOURCE: Main Economic Indicators and Quarterly National Accounts, © Organisation for Economic Co-Operation and Development (OECD), [http:/www.oecd.org](http:/www.oecd.org).
Industrial Production (industry excluding construction); Real Compensation (compensation of employees deflated by the price index for private consumption); Civilian Employment; Real Retail Sales (value of retail sales deflated by the consumer price index: all items [seasonally adjusted by the Federal Reserve Bank of St. Louis])

## Tracking the Global Recession: GDP Data - Australia








Data last updated 2010-01-19.
NOTE: The charts plot Real Gross Domestic Product (SA, Chained) and its major components; each series is indexed to 100 at the business cycle peak. The red line indicates the current recession. The solid blue line indicates the average of the previous seven recessions, starting with the April 1977 peak. The two dashed lines report the highest and lowest values recorded across these previous recessions.

SOURCE: Quarterly National Accounts, © Organisation for Economic Co-Operation and Development (OECD), [http://www.oecd.org](http://www.oecd.org).

## Tracking the Global Recession: Economic Indicators - Canada



Data last updated 2010-01-19.
NOTE: The charts plot four main economic indicators similar to those tracked by the NBER dating committee for the U.S.; each series is indexed to 100 at the business cycle peak. The red line indicates the current recession. The solid blue line indicates the average of the previous eight recessions, starting with the January 1966 peak. The two dashed lines report the highest and lowest values recorded across these previous recessions.

SOURCE: Main Economic Indicators and Quarterly National Accounts, © Organisation for Economic Co-Operation and Development (OECD), [http:/www.oecd.org](http:/www.oecd.org).

Industrial Production (industry excluding construction); Real Compensation (compensation of employees deflated by the price index for private consumption); Civilian Employment; Real Retail Sales (value of retail sales deflated by the consumer price index: all items [seasonally adjusted by the Federal Reserve Bank of St. Louis])

# Tracking the Global Recession: GDP Data - Canada 








Data last updated 2010-01-19.

NOTE: The charts plot Real Gross Domestic Product (SA, Chained) and its major components; each series is indexed to 100 at the business cycle peak. The red line indicates the current recession. The solid blue line indicates the average of the previous eight recessions, starting with the January 1966 peak. The two dashed lines report the highest and lowest values recorded across these previous recessions.

SOURCE: Quarterly National Accounts, © Organisation for Economic Co-Operation and Development (OECD), [http://www.oecd.org](http://www.oecd.org).

## Tracking the Global Recession: Economic Indicators - France



Data last updated 2010-01-19.
NOTE: The charts plot four main economic indicators similar to those tracked by the NBER dating committee for the U.S.; each series is indexed to 100 at the business cycle peak. The red line indicates the current recession. The solid blue line indicates the average of the previous six recessions, starting with the August 1979 peak. The two dashed lines report the highest and lowest values recorded across these previous recessions.

SOURCE: Main Economic Indicators and Quarterly National Accounts, © Organisation for Economic Co-Operation and Development (OECD), [http:/www.oecd.org](http:/www.oecd.org).

Industrial Production (industry excluding construction); Real Compensation (compensation of employees deflated by the price index for private consumption); Civilian Employment; Real Retail Sales (value of retail sales deflated by the consumer price index: all items [seasonally adjusted by the Federal Reserve Bank of St. Louis])

## Tracking the Global Recession: GDP Data - France








Data last updated 2010-01-19.

NOTE: The charts plot Real Gross Domestic Product (SA, Chained) and its major components; each series is indexed to 100 at the business cycle peak. The red line indicates the current recession. The solid blue line indicates the average of the previous six recessions, starting with the August 1979 peak. The two dashed lines report the highest and lowest values recorded across these previous recessions.

SOURCE: Quarterly National Accounts, © Organisation for Economic Co-Operation and Development (OECD), [http://www.oecd.org](http://www.oecd.org).

## Tracking the Global Recession: Economic Indicators - Germany



Data last updated 2010-01-19.
NOTE: The charts plot four main economic indicators similar to those tracked by the NBER dating committee for the U.S.; each series is indexed to 100 at the business cycle peak. The red line indicates the current recession. The solid blue line indicates the average of the previous eight recessions, starting with the April 1973 peak. The two dashed lines report the highest and lowest values recorded across these previous recessions.

SOURCE: Main Economic Indicators and Quarterly National Accounts, © Organisation for Economic Co-Operation and Development (OECD), [http:/www.oecd.org](http:/www.oecd.org).

Industrial Production (industry excluding construction); Real Compensation (compensation of employees deflated by the consumer price index: all items [seasonally adjusted by the Federal Reserve Bank of St. Louis]); Civilian Employment; Real Retail Sales (value of retail sales deflated by the consumer price index: all items [seasonally adjusted by the Federal Reserve Bank of St. Louis])

# Tracking the Global Recession: GDP Data - Germany 








Data last updated 2010-01-19.
NOTE: The charts plot Real Gross Domestic Product (SA, Chained) and its major components; each series is indexed to 100 at the business cycle peak. The red line indicates the current recession. The solid blue line indicates the average of the previous eight recessions, starting with the April 1973 peak. The two dashed lines report the highest and lowest values recorded across these previous recessions.

SOURCE: Quarterly National Accounts, © Organisation for Economic Co-Operation and Development (OECD), [http://www.oecd.org](http://www.oecd.org).

## Tracking the Global Recession: Economic Indicators - Italy



## Data last updated 2010-01-19.

NOTE: The charts plot three main economic indicators similar to those tracked by the NBER dating committee for the U.S.; each series is indexed to 100 at the business cycle peak. The red line indicates the current recession. The solid blue line indicates the average of the previous six recessions, starting with the September 1984 peak. The two dashed lines report the highest and lowest values recorded across these previous recessions.

SOURCE: Main Economic Indicators and Quarterly National Accounts, © Organisation for Economic Co-Operation and Development (OECD), [http:/www.oecd.org](http:/www.oecd.org).

Industrial Production (industry excluding construction); Real Compensation (compensation of employees deflated by the price index for private consumption); Civilian Employment

## Tracking the Global Recession: GDP Data - Italy








Data last updated 2010-01-19.

NOTE: The charts plot Real Gross Domestic Product (SA, Chained) and its major components; each series is indexed to 100 at the business cycle peak. The red line indicates the current recession. The solid blue line indicates the average of the previous six recessions, starting with the September 1984 peak. The two dashed lines report the highest and lowest values recorded across these previous recessions.

SOURCE: Quarterly National Accounts, © Organisation for Economic Co-Operation and Development (OECD), [http://www.oecd.org](http://www.oecd.org).

## Tracking the Global Recession: Economic Indicators - Japan



Data last updated 2010-01-19.
NOTE: The charts plot four main economic indicators similar to those tracked by the NBER dating committee for the U.S.; each series is indexed to 100 at the business cycle peak. The red line indicates the current recession. The solid blue line indicates the average of the previous four recessions, starting with the November 1984 peak. The two dashed lines report the highest and lowest values recorded across these previous recessions.

SOURCE: Main Economic Indicators and Quarterly National Accounts, © Organisation for Economic Co-Operation and Development (OECD), [http:/www.oecd.org](http:/www.oecd.org).

Industrial Production (industry excluding construction); Real Compensation (compensation of employees deflated by the consumer price index: all items [seasonally adjusted by the Federal Reserve Bank of St. Louis]); Civilian Employment; Real Retail Sales (value of retail sales deflated by the consumer price index: all items [seasonally adjusted by the Federal Reserve Bank of St. Louis])

## Tracking the Global Recession: GDP Data - Japan



Data last updated 2010-01-19.

NOTE: The charts plot Real Gross Domestic Product (SA, Chained) and its major components; each series is indexed to 100 at the business cycle peak. The red line indicates the current recession. The solid blue line indicates the average of the previous four recessions, starting with the November 1984 peak. The two dashed lines report the highest and lowest values recorded across these previous recessions.

SOURCE: Quarterly National Accounts, © Organisation for Economic Co-Operation and Development (OECD), [http://www.oecd.org](http://www.oecd.org).

# Tracking the Global Recession: Economic Indicators - United Kingdom 



Data last updated 2010-01-19.
NOTE: The charts plot four main economic indicators similar to those tracked by the NBER dating committee for the U.S.; each series is indexed to 100 at the business cycle peak. The red line indicates the current recession. The solid blue line indicates the average of the previous seven recessions, starting with the June 1973 peak. The two dashed lines report the highest and lowest values recorded across these previous recessions.

SOURCE: Main Economic Indicators and Quarterly National Accounts, © Organisation for Economic Co-Operation and Development (OECD), [http:/www.oecd.org](http:/www.oecd.org).

Industrial Production (industry excluding construction); Real Compensation (compensation of employees deflated by the price index for private consumption); Civilian Employment; Real Retail Sales (value of retail sales deflated by the consumer price index: all items [seasonally adjusted by the Federal Reserve Bank of St. Louis])

## Tracking the Global Recession: GDP Data - United Kingdom








Data last updated 2010-01-19.

NOTE: The charts plot Real Gross Domestic Product (SA, Chained) and its major components; each series is indexed to 100 at the business cycle peak. The red line indicates the current recession. The solid blue line indicates the average of the previous seven recessions, starting with the June 1973 peak. The two dashed lines report the highest and lowest values recorded across these previous recessions.

SOURCE: Quarterly National Accounts, © Organisation for Economic Co-Operation and Development (OECD), [http://www.oecd.org](http://www.oecd.org).

## NOTES and SOURCES

## UNITED STATES

The charts plot four main economic indicators tracked by the NBER dating committee and Real Gross Domestic Product and its major components; each series is indexed to 100 at the start of the recession. The red line indicates the current recession, starting in December 2007. For industrial production, employment, real retail sales, and real GDP and its components, the solid blue line indicates the average of the past 10 recessions. For real income, the average starts with the April 1960 peak. For additional information, see the Federal Reserve Bank of St. Louis Economic Synopses, 2009, No. 4.

## BUSI NESS CYCLE PEAK DATES:

- November 1948
- July 1953
- August 1957
- April 1960
- December 1969
- November 1973
- January 1980
- July 1981
- July 1990
- March 2001
- December 2007

SOURCE: NBER Business Cycle Expansions and Contractions

## DATA DESCRIPTIONS:

The following $\underline{F R E D ®}$ data series are used to create the charts:

- Industrial Production
o Industrial Production Index
- Real Income ${ }^{i}$
o Personal Income in current dollars
o less Personal Current Transfer Receipts
o deflated by the Personal Consumption Expenditure: Chain-type Price Index
- Employment
o Total Nonfarm Payrolls: All Employees
- Real Retail Sales
o Retail Sales [SIC-basis] and Retail and Food Services Sales [NAIC-basis] ii
o deflated by the Consumer Price Index for All Urban Consumers: All Items
- Real Gross Domestic Product
- Real Personal Consumption Expenditures ${ }^{\text {iii }}$
- Real Gross Private Domestic Investment ${ }^{\text {iv }}$
- Real Govenment Consumption Expenditures and Gross Investment v
- Real Exports of Goods and Services
- Real Imports of Goods and Services

SOURCES: Board of Governors of the Federal Reserve System, U.S. Department of Labor: Bureau of Labor Statistics, U.S. Department of Commerce: Census Bureau, U.S. Department of Commerce: Bureau of Economic Analysis, Haver Analytics.

The charts plot four main economic indicators, similar to those tracked by the NBER dating committee for the U.S., and Real Gross Domestic Product and its major components; each series is indexed to 100 at the business cycle peak. The red line indicates the current recession. The solid blue line indicates the average of previous recessions. The two dashed lines report the highest and lowest values recorded across these previous recessions.

The data and recession dates used in the international charts are from the Organisation for Economic Co-Operation and Development (OECD).

## BUSI NESS CYCLE PEAK DATES:

| Australia | Canada | France | Germany | Italy | Japan | United <br> Kingdom |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| April 1977 | January 1966 | August 1979 | April 1973 | September 1984 | November 1984 | June 1973 |
| September 1979 | March 1969 | February 1984 | January 1977 | November 1989 | February 1991 | June 1979 |
| March 1982 | January 1974 | March 1990 | January 1980 | October 1995 | June 1997 | November 1983 |
| July 1985 | July 1979 | February 1995 | October 1985 | November 1997 | October 2000 | November 1988 |
| December 1988 | August 1984 | April 1998 | February 1991 | December 2000 | March 2008 | October 1994 |
| February 1996 | April 1988 | December 2000 | December 1994 | April 2008 |  | November 2000 |
| August 2000 | January 1995 | February 2008 | April 1998 |  | April 2004 |  |
| May 2008 | August 2000 |  | December 2000 |  |  | February 2008 |

SOURCE: http://www.oecd.org/document/29/0,3343,en_2649_34349_35725597_1_1_1_1,00.html

## DATA DESCRIPTI ONS:

The following data series are used to create the charts:

## AUSTRALI A

- Industrial Production
o Industry excl. Construction
- Real Compensation ${ }^{i}$
o Compensation of Employees
o deflated by the Price Index for Private Consumption
- Employment
o Civilian Employment
- Real Retail Sales
o Value of Retail Sales
o deflated by the Consumer Price Index: All Items ${ }^{\text {v }}$
- Real Gross Domestic Product
- Real Private Final Consumption Expenditures iii
- Real Gross Fixed Capital Formation iv
- Real Government Final Consumption Expenditures ${ }^{\vee}$
- Real Exports of Goods \& Services
- Real Imports of Goods \& Services


## CANADA

- Industrial Production
o Industry excl. Construction
- Real Compensation ${ }^{\text {i }}$
o Compensation of Employees
o deflated by the Price Index for Private Consumption
- Employment
o Civilian Employment
- Real Retail Sales
o Value of Retail Sales
o deflated by the Consumer Price Index: All Items vi
- Real Gross Domestic Product
- Real Private Final Consumption Expenditures iii
- Real Gross Fixed Capital Formation iv
- Real Government Final Consumption Expenditures ${ }^{\vee}$
- Real Exports of Goods \& Services
- Real Imports of Goods \& Services


## FRANCE

- Industrial Production
o Industry excl. Construction
- Real Compensation ${ }^{i}$
o Compensation of Employees
o deflated by the Price Index for Private Consumption
- Employment
o Civilian Employment
- Real Retail Sales
o Value of Retail Sales
o deflated by the Consumer Price Index: All Items vi
- Real Gross Domestic Product
- Real Private Final Consumption Expenditures iii
- Real Gross Fixed Capital Formation iv
- Real Government Final Consumption Expenditures ${ }^{\vee}$
- Real Exports of Goods \& Services
- Real Imports of Goods \& Services


## GERMANY

- Industrial Production
o Industry excl. Construction
- Real Compensation ${ }^{i}$
o Compensation of Employees
o deflated by the Consumer Price Index: All Items vi
- Employment
o Civilian Employment
- Real Retail Sales
o Value of Retail Sales
o deflated by the Consumer Price Index: All Items vi
- Real Gross Domestic Product
- Real Private Final Consumption Expenditures iii
- Real Gross Fixed Capital Formation ${ }^{\text {iv }}$
- Real Government Final Consumption Expenditures ${ }^{\vee}$
- Real Exports of Goods \& Services
- Real Imports of Goods \& Services


## ITALY

- Industrial Production
o Industry excl. Construction
- Real Compensation ${ }^{i}$
o Compensation of Employees
o deflated by the Price Index for Private Consumption
- Employment
o Civilian Employment
- Real Gross Domestic Product
- Real Private Final Consumption Expenditures iii
- Real Gross Fixed Capital Formation iv
- Real Government Final Consumption Expenditures ${ }^{\vee}$
- Real Exports of Goods \& Services
- Real Imports of Goods \& Services


## J APAN

- Industrial Production
o Industry excl. Construction
- Real Compensation ${ }^{i}$
o Compensation of Employees
o deflated by the Consumer Price Index: All Items vi
- Employment
o Civilian Employment
- Real Retail Sales
o Value of Retail Sales
o deflated by the Consumer Price Index:
All Items vi
- Real Gross Domestic Product
- Real Private Final Consumption Expenditures ${ }^{\text {iii }}$
- Real Gross Fixed Capital Formation iv
- Real Government Final Consumption Expenditures ${ }^{\vee}$
- Real Exports of Goods \& Services
- Real Imports of Goods \& Services


## UNITED KI NGDOM

- Industrial Production
o Industry excl. Construction
- Real Compensation ${ }^{\text {i }}$
o Compensation of Employees
o deflated by the Price Index for Private Consumption
- Employment
o Civilian Employment
- Real Retail Sales
o Value of Retail Sales
o deflated by the Consumer Price Index: All Items vi
- Real Gross Domestic Product
- Real Private Final Consumption Expenditures ${ }^{\text {iii }}$
- Real Gross Fixed Capital Formation ${ }^{\text {iv }}$
- Real Government Final Consumption Expenditures ${ }^{\vee}$
- Real Exports of Goods \& Services
- Real Imports of Goods \& Services

[^1]
[^0]:    ${ }^{1}$ These two series are spliced to create a single series starting in 1947.

[^1]:    ${ }^{i}$ U.S. = real income; International $=$ real compensation.
    ${ }^{i i}$ These two series are spliced to create a single series starting in 1947.
    iii U.S. = personal consumption expenditures; International = private final consumption expenditures.
    iv U.S. = gross private domestic investment; International = gross fixed capital formation.
    ${ }^{\vee}$ U.S. = government consumption expenditures and gross investment; International = government final consumption expenditures.
    vi Seasonally adjusted by the Federal Reserve Bank of St. Louis.

