This is the inaugural issue of *IET Supplement: Cross-Country Comparison*. This publication contains the same data as *International Economic Trends*, but it presents the data series-by-series, rather than country-by-country. The new format permits readers to easily compare and contrast economic performance and recognize cross-country trends.

For each series (e.g., real GDP), data for Canada, Japan, the United States, and the United Kingdom will be presented on one graph, while those for the Euro Area, France, Germany, and Italy will be presented on a second graph. These groupings reflect the similarities in the economic trends of the countries within each group. For example, the upper figure (page 3) shows that the output growth rates of the major Euro Area economies move closely together.

While no one should deny the importance of domestic factors and economic policy, the new cross-country format illustrates the common trends that result from global developments in technology and demographics, propagated through international trade and financial links.

The new arrangement of the data also makes it clear when a country’s economic policy or performance diverges from that of its peers. For example, the lower figure (page 34) points up Japan’s recent accumulation of relatively large foreign exchange reserves.

As always, comments and suggestions on the new format are welcome. The inside cover provides contact information.

—Christopher J. Neely
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Conventions used in this publication:

1. Charts and tables contain data that were current through January 2005. Unless otherwise indicated, data are quarterly.

2. The percent change refers to the percent change from the same period in the previous year. For example, the percent change in $x$ between quarter $t-4$ and the current quarter $t$ is: $\left(\frac{x_t}{x_{t-4}}-1\right) \times 100$.

3. All data with significant seasonal patterns are adjusted accordingly.

Dear Reader,

Thank you for reading IET Supplement. Please assist us in providing you with the most useful international economic data by offering your comments and suggestions on the publication. Such feedback can be sent to one of the following addresses:

stlsIET@stls.frb.org or Editor, IET Supplement
Research Department
Federal Reserve Bank of St. Louis
411 Locust St.
St. Louis, MO 63102

Please keep in mind that technical limitations preclude us from adding more pages to the publication. So, we must make some difficult choices with respect to the material we include.

Thank you in advance for your help in making IET Supplement a great publication.

Sincerely,
Christopher J. Neely
Editor, IET Supplement

IET Supplement is published by the Research Division of the Federal Reserve Bank of St. Louis. Visit the Research Division’s website at research.stlouisfed.org/publications/IETsupplement to download this publication or register for e-mail notification updates. For more information on data in this publication, please call (314) 444-8590.
Real Gross Domestic Product for Canada, Japan, United Kingdom, and United States

Percent change from year ago

-2
-4
87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04

8
6
4
2
0

Canada
Japan
United Kingdom
United States

Research Division
Federal Reserve Bank of St. Louis
Real Gross Domestic Product for Euro Area, France, Germany, and Italy

Percent change from year ago

-4 -3 -2 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04

-4 -3 -2 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04

Euro Area  France  Germany  Italy
Nominal Gross Domestic Product for Canada, Japan, United Kingdom, and United States
Percent change from year ago
Nominal Gross Domestic Product for Euro Area, France, Germany, and Italy

percent change from year ago
Industrial Production for Canada, Japan, United Kingdom, and United States
Percent change from year ago

Canada
Japan
United Kingdom
United States
Industrial Production for Euro Area, France, Germany, and Italy
Percent change from year ago
Retail Sales for Canada, Japan, United Kingdom, and United States
Percent change from year ago

*Data prior to 1993 may not be strictly comparable with later figures (see Notes).
Retail Sales for Euro Area, France, Germany, and Italy

Percent change from year ago

*Data prior to 1996 may not be strictly comparable with later figures (see Sources).
Capacity Utilization for Canada, Japan, United Kingdom, and United States

Percent 2000 = 100

Canada
Japan
United Kingdom
United States

1 Left Scale, 2 Right Scale
Capacity Utilization for Euro Area, France, Germany, and Italy

Percent

85

80

75

70

87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04

Euro Area
France
Germany
Italy

Federal Reserve Bank of St. Louis
Research Division
Output per Worker for Canada, Japan, United Kingdom, and United States

Percent change from year ago
Output per Worker for Euro Area, France, Germany, and Italy
Percent change from year ago
Earnings for Canada, Japan, United Kingdom, and United States
Percent change from year ago

1 Hourly Earnings, 2 Monthly Earnings, 3 Weekly Earnings
Hourly Earnings for Euro Area, France, Germany, and Italy
Percent change from year ago

Euro Area  France  Germany  Italy

Research Division
Federal Reserve Bank of St. Louis
Employment for Canada, Japan, United Kingdom, and United States

Percent change from year ago

Canada Japan United Kingdom United States

-4 -3 -2 -1 0 1 2 3 4 5

87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04

Canada Japan United Kingdom United States
Employment for Euro Area, France, Germany, and Italy
Percent change from year ago
Unemployment Rate for Canada, Japan, United Kingdom, and United States

<table>
<thead>
<tr>
<th>Canada</th>
<th>Japan</th>
<th>United Kingdom</th>
<th>United States</th>
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</thead>
</table>

Percent

87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04
Unemployment Rate for Euro Area, France, Germany, and Italy

Percent

Euro Area
France
Germany
Italy
Consumer Price Index for Euro Area, France, Germany, and Italy
Percent change from year ago

Euro Area  France  Germany  Italy
Producer Price Index for Canada, Japan, United Kingdom, and United States

Percent change from year ago

Canada | Japan | United Kingdom | United States
Producer Price Index for Euro Area, France, Germany, and Italy

Percent change from year ago
Government Debt for Canada, Japan, United Kingdom, and United States

*Percent of GDP, annual data*

- **Canada**
- **Japan**
- **United Kingdom**
- **United States**

1. Gross Debt
Government Debt for Euro Area, France, Germany, and Italy
Percent of GDP, annual data
Government Budget Balance for Canada, Japan, United Kingdom, and United States

Percent of GDP, annual data

- Canada
- Japan
- United Kingdom
- United States
Government Budget Balance for Euro Area, France, Germany, and Italy
Percent of GDP, annual data
International Trade - Imports of Goods and Services for Canada, Japan, United Kingdom, and United States

Percent of GDP

Canada Japan United Kingdom United States
International Trade - Imports of Goods and Services for Euro Area, France, Germany, and Italy

Percent of GDP

1 Imports of Goods Only
International Trade - Exports of Goods and Services for Canada, Japan, United Kingdom, and United States

Percent of GDP
International Trade - Exports of Goods and Services for Euro Area, France, Germany, and Italy
Percent of GDP

1 Exports of Goods Only
Current Account Balance for Canada, Japan, United Kingdom, and United States

Percent of GDP

Canada | Japan | United Kingdom | United States

87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04
Current Account Balance for Euro Area, France, Germany, and Italy

Percent of GDP

<table>
<thead>
<tr>
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<th>Germany</th>
<th>Italy</th>
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<td>-2</td>
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<tr>
<td>88</td>
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<td>-2</td>
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Foreign Exchange Reserves Canada, Japan, United Kingdom, and United States

Billions of US$

Canada
Japan
United Kingdom
United States

1 Left Scale, 2 Right Scale
Foreign Exchange Reserves for France, Germany, and Italy

Billions of US$
Real Effective Exchange Rate for Canada, Euro Area, Japan, United Kingdom, and United States

Index 2000 = 100
Exchange Rates for Canada, Euro Area, Japan, United Kingdom, and United States

Per US$ (Left Scale)

- Canada (1)
- Euro Area (2)
- Japan (3)
- United Kingdom (4)
- United States (5)

1. Canadian dollar, Left Scale
2. euro, Left Scale
3. Japanese yen, Right Scale
4. UK pound, Left Scale
5. US TWEX, March 1973=100, Right Scale
Reserve Money for Canada, Japan, United Kingdom, and United States

Percent change from year ago

87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04

Canada\textsuperscript{1} \hspace{1cm} Japan\textsuperscript{2} \hspace{1cm} United Kingdom\textsuperscript{3} \hspace{1cm} United States\textsuperscript{2}

\textsuperscript{1} Reserve Money, \textsuperscript{2} Adjusted Monetary Base, \textsuperscript{3} M0
Narrow Money for Canada, Euro Area, Japan, United Kingdom, and United States

Percent change from year ago
Broad Money for Canada, Euro Area, Japan, United Kingdom, and United States

Percent change from year ago
Long-Term Interest Rates for Canada, Japan, United Kingdom, and United States

Percent


Canada
Japan
United Kingdom
United States

1 10-Year Government Bonds, 2 Composite of Long-Term Government Bonds
Long-Term Interest Rates for Euro Area, France, Germany, and Italy

Percent

87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04

Euro Area¹  France²  Germany³  Italy⁴

¹ Weighted Average of 10-Year Government Bonds, ² 10-Year Benchmark Bonds, ³ 7- to 15-Year Public Sector Bonds, ⁴ Government Bonds, 15- to 20-Year through 1990 and 10-Year starting in 1991
Stock Exchange Indices for Canada, Japan, United Kingdom, and United States

2000 = 100

Canada: Toronto Stock Exchange, Left Scale
Japan: Tokyo Stock Exchange, Right Scale
United Kingdom: Financial Times Stock Exchange, Left Scale
United States: New York Stock Exchange, Left Scale
Stock Exchange Indices for Euro Area, France, Germany, and Italy

2000 = 100

Euro Area
France
Germany
Italy

1 Dow Jones EURO STOXX™, 2 SBF 250, 3 CDAX, 4 Milan Stock Exchange
Notes

**Euro-Area Data:** On January 1, 2001, the euro area was enlarged to include Greece as its 12th member country. Historical euro area series for capacity utilization, the consumer price index, current account balance, earnings, employment, government debt and budget balance, gross domestic product (GDP), industrial production, merchandise trade, the producer price index, and unemployment include Greece. The series for interest rates, monetary aggregates, the real effective exchange rate, retail sales, and the stock exchange index incorporate Greece starting in January 2001.

Euro-area interest rates prior to December 1998 are calculated on the basis of national government yields weighted by GDP. Starting in 1999, short-term rates are euro interbank offered rates. Long-term rates are calculated on the basis of national government bond yields weighted by the nominal outstanding amounts of government bonds in each maturity band.

The euro/dollar exchange rate used in the chart on page 12 is a synthetic rate prior to January 1999. This is constructed by calculating a weighted average of the exchange rates of the euro-area countries, excluding Greece and Luxembourg, against the dollar. The weights are based on 1997 GDP shares.

**German Data:** As a result of reunification, data for all of Germany are now incorporated in the statistical series. The starting periods for unified German data are listed below. Care should be exercised when interpreting the data around these break periods.

Third quarter 1990: current account balance, international trade, and unemployment.
First quarter 1991: consumer price index, GDP, industrial production, output per worker.
First quarter 1993: stock exchange index.
First quarter 1993: employment.

**Capacity Utilization** covers the manufacturing sector for Canada, France, Japan, the United Kingdom, the United States, and the euro area; manufacturing excluding food, beverage, and tobacco for Germany; and mining and manufacturing for Italy.

**Consumer Price Index** is for all items. The current index is based on goods and services consumed by all individuals for Canada; multi-person households excluding those mainly engaged in agriculture, forestry, and fisheries for Japan; all households except pensioners dependent on state pension and high income households for the United Kingdom; and all urban households for the United States. Data for the euro area, France, Germany, and Italy are based on the harmonized index of consumer prices.

**Current Account Balance** is the sum of merchandise and service exports and income receipts on domestic assets abroad minus the sum of merchandise and service imports and income payments from foreign assets in the domestic economy plus net unilateral transfers.

**Earnings** are based on hourly earnings in manufacturing for Canada, Germany, the United States, and the euro area; hourly earnings in manufacturing excluding construction for France, hourly earnings in industry for Italy; monthly earnings in manufacturing for Japan; and weekly earnings in manufacturing for the United Kingdom.

The **Exchange Rate** for all countries except the United States is expressed as units of local currency per U.S. dollar. For the United States the trade-weighted exchange rate, TWEX, is used. This is a weighted average of the exchange value of the U.S. dollar relative to the major international currencies—the euro, Canadian dollar, Japanese yen, British pound, Swiss franc, Australian dollar, and Swedish kronor. Prior to 1999, the currencies of the euro-area countries (with the exception of Greece) are used instead of the euro.

**Real Effective Exchange Rate** uses normalized unit labor costs in manufacturing. The weighting scheme used to construct the rates, for all except the euro area, is based on disaggregated data for trade among 21 industrial countries in manufactured goods for 1995. For the euro area the weights relate to the trade of the euro area with the other countries. The weights reflect the relative importance of a country’s trading partners in its direct bilateral trade relations and competition in third markets. Normalized unit labor costs in manufacturing are calculated by dividing an index of actual hourly compensation per worker by a five-year moving average index of output per man-hour.

**Employment** data refer to civilian employment for Canada, Germany, Italy, Japan, and the United States; industrial employment for France; and total employment for the euro area and the United Kingdom.

**Foreign Exchange Reserve** data are end of period. The dollar value of reserves may fluctuate as a result of changes in reserve holdings and/or changes in the value of the currencies held vis-à-vis the U.S. dollar.

**Government Budget Balance** is the difference between general government current receipts and total outlays. Total outlays consist of current expenditures and net capital expenditures. **Government Debt** incorporates all financial liabilities of the general government sector. The general government sector consolidates the accounts of the central, state, local, and social security sectors.

**Industrial Production** measures the change in the volume of output in the mining, manufacturing, oil, electricity, gas, and water industries.

The **Short-Term Interest Rate** table on page 4 uses the relevant 3-month interest rate shown in the country pages.

The **Long-Term Interest Rate** table on page 4 uses the government bond rate. The government bond rate is a composite of yields on federal government bonds with maturities of more than 10 years for the United States; long-term public and semi-public sector bonds for France; 7- to 15-year public sector bonds for Germany; 15- to 20-year government bonds through 1990 and 10-year government bonds starting in 1991 for Italy; and 10-year government bonds for Canada, the euro area, Japan, and the United Kingdom.

The **Reserve Money** table on page 4 refers to the adjusted monetary base for Japan and the United States; reserve money for Canada; and M0 for the United Kingdom. **Reserve Money** is currency in circulation, deposits of the deposit money banks, and demand deposits of other residents (with the exception of the central government) with the monetary authority.

**Adjusted Monetary Base**

Japan: currency in circulation and current deposits at the Bank of Japan.
United States: the sum of currency in circulation outside Federal Reserve banks and the U.S. Treasury, deposits of depository financial institutions at Federal Reserve banks, and an adjustment for the effects of changes in statutory reserve requirements on the quantity of base money held by depositories.

**M0**


**M1**

Canada: currency in circulation and chartered bank demand deposits.
Japan: cash, currency in circulation, and deposit money.

**Euro area:** currency in circulation and overnight deposits.

**MZM**

United States: currency in circulation, travelers’ checks, total publicly-held checkable deposits minus cash items in the process of collection and Federal Reserve float, savings deposits, shares in retail money market mutual funds (funds with initial investments of less than $50,000), net of retirement accounts, and institutional money market mutual funds.

**M2**

Canada: M1 plus all checkable notice deposits and personal term deposits.
United Kingdom: currency in circulation and sterling retail deposits with the U.K. banks and building societies.
United States: MZM less institutional money market mutual funds plus small denomination (less than $100,000) time deposits.

**M2 + CDs**

Japan: M1 plus private deposits, public deposits less demand deposits, and certificates of deposit.

**M3**

Euro area: M1 plus deposits with a maturity up to 2 years, deposits redeemable at notice up to 3 months, repurchase agreements, money market funds, and debt securities up to 2 years.
M4
United Kingdom: M2 plus wholesale deposits with the U.K. banks and building societies.

Output Per Worker is the ratio of real GDP to employment.

Producer Price Index covers manufacturing for Canada and the United Kingdom; and total industry for Japan and the United States. Data for the euro area, France, Germany, and Italy are based on the harmonized index of total industry excluding construction.

Retail Sales are based on a volume index. The percent change in retail sales for the United States is based on the Standard Industrial Classification system through 1992 and the North American Industrial Classification System from 1993 on.

Stock Exchange Index refers to all share prices except for the United Kingdom, which excludes financial firms.

Unemployment Rate is the standardized unemployment rate. It is the percentage of the civilian labor force that is unemployed. The unemployed are all persons of working age who are without work, readily available for work, and actively seeking work. The standardized rate may differ from the national unemployment rate calculations.

Sources

Abbreviations
Board of Governors of the Federal Reserve System (BOG)
Bureau of Economic Analysis, U.S. Department of Commerce (BEA)
International Monetary Fund, International Financial Statistics (IMF)
Organization for Economic Cooperation and Development, Main Economic Indicators (OECD1)
National Accounts Quarterly (OECD3)

Canada
Bank of Canada: M1 and M2.
BOG: exchange rate.
IMF: foreign exchange reserves, merchandise and service trade, real effective exchange rate, and reserve money.
OECD1: government debt and budget balance.
OECD2: capacity utilization, consumer price index, current account balance, GDP, hourly earnings, industrial production, interest rates, producer price index, retail sales, stock exchange index, and unemployment rate.
Statistics Canada: employment.

Euro Area
European Central Bank: current account balance and employment.
Eurostat: capacity utilization, consumer price index, GDP, interest rates, merchandise trade, producer price index, and retail sales.
Haver Analytics: synthetic euro exchange rate.
IMF: real effective exchange rate.
OECD1: government debt and budget balance.
OECD2: current account balance, GDP, hourly earnings, industrial production, retail sales (prior to 1996), interest rates, stock exchange index, and unemployment.

France
BOG: exchange rate.
Eurostat: capacity utilization, consumer price index, producer price index, and retail sales (starting in 1996).
IMF: foreign exchange reserves, merchandise and service trade, and real effective exchange rate.
Institut National de la Statistique et des Etudes Economiques: employment.
OECD1: government debt and budget balance.
OECD2: current account balance, GDP, hourly earnings, industrial production, retail sales (prior to 1996), interest rates, stock exchange index, and unemployment.

Germany
BOG: exchange rate.
Bundesanstalt Fur Arbeit: employment.
Eurostat: capacity utilization, consumer price index, and producer price index.
IMF: foreign exchange reserves, merchandise and service trade, and real effective exchange rate.
OECD1: government debt and budget balance.
OECD2: current account balance, GDP, hourly earnings, industrial production, M1, M3, retail sales, interest rates, stock exchange index, and unemployment.

Italy
BOG: exchange rate.
Eurostat: capacity utilization, consumer price index, and producer price index.
IMF: foreign exchange reserves, merchandise and service trade, and real effective exchange rate.
Istituto Nazionale di Statistica: employment.
OECD1: government debt and budget balance.
OECD2: capacity utilization, consumer price index, current account balance, employment, GDP, hourly earnings, industrial production, M1, M2, producer price index, retail sales, short-term interest rate, stock exchange index, and unemployment.

Japan
Bank of Japan: adjusted monetary base and long-term interest rate.
BOG: exchange rate.
IMF: foreign exchange reserves, merchandise and service trade, and real effective exchange rate.
OECD1: government debt and budget balance.
OECD2: capacity utilization, consumer price index, current account balance, employment, GDP, hourly earnings, industrial production, M1, M2, producer price index, retail sales, stock exchange index, unemployment, and weekly earnings.
U.K. Office for National Statistics: employment and M0.

United Kingdom
BOG: exchange rate.
IMF: foreign exchange reserves, merchandise and service trade, and real effective exchange rate.
OECD1: government debt and budget balance.
OECD2: capacity utilization, consumer price index, current account balance, employment, GDP, hourly earnings, industrial production, M1, M3, producer price index, retail sales, stock exchange index, unemployment, and weekly earnings.

United States
BOG: capacity utilization, exchange rate, industrial production index, M2, and interest rates.
BEA: GDP: current account balance, merchandise and service trade, and retail sales.
BLS: employment, consumer price index, and producer price index.
Federal Reserve Bank of St. Louis: adjusted monetary base and MZM.
IMF: foreign exchange reserves and real effective exchange rate.
OECD1: government debt and budget balance.
OECD2: hourly earnings, stock exchange index, and unemployment.