



**IET** Supplement  
Cross-Country Comparison

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February 2010



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## Conventions used in this publication:

1. Charts and tables contain data that were current through January 2010. 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:  $[(x_t/x_{t-4})-1] \times 100$ .
3. All data with significant seasonal patterns are adjusted accordingly.

We welcome your comments addressed to:

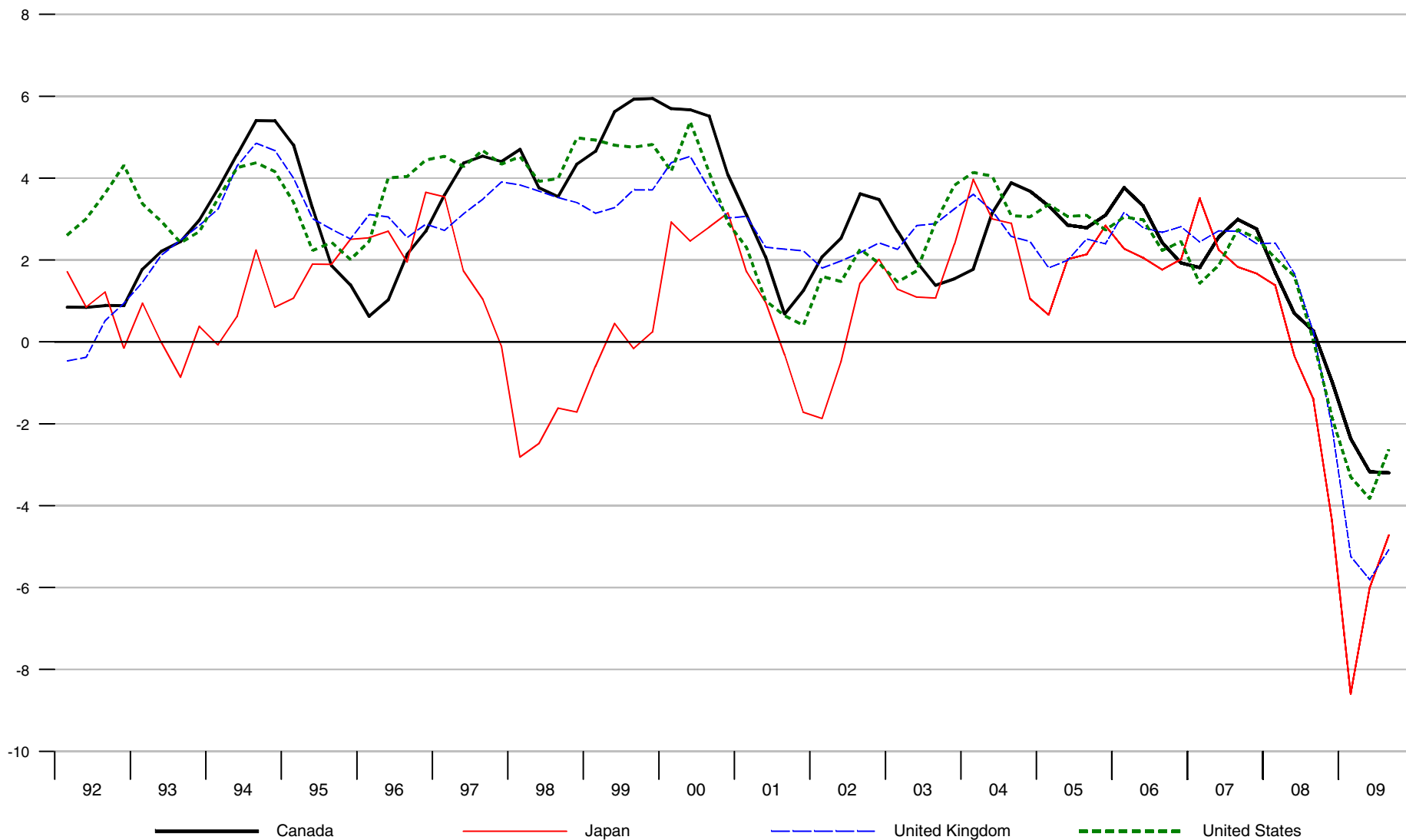
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St. Louis, MO 63166-0442

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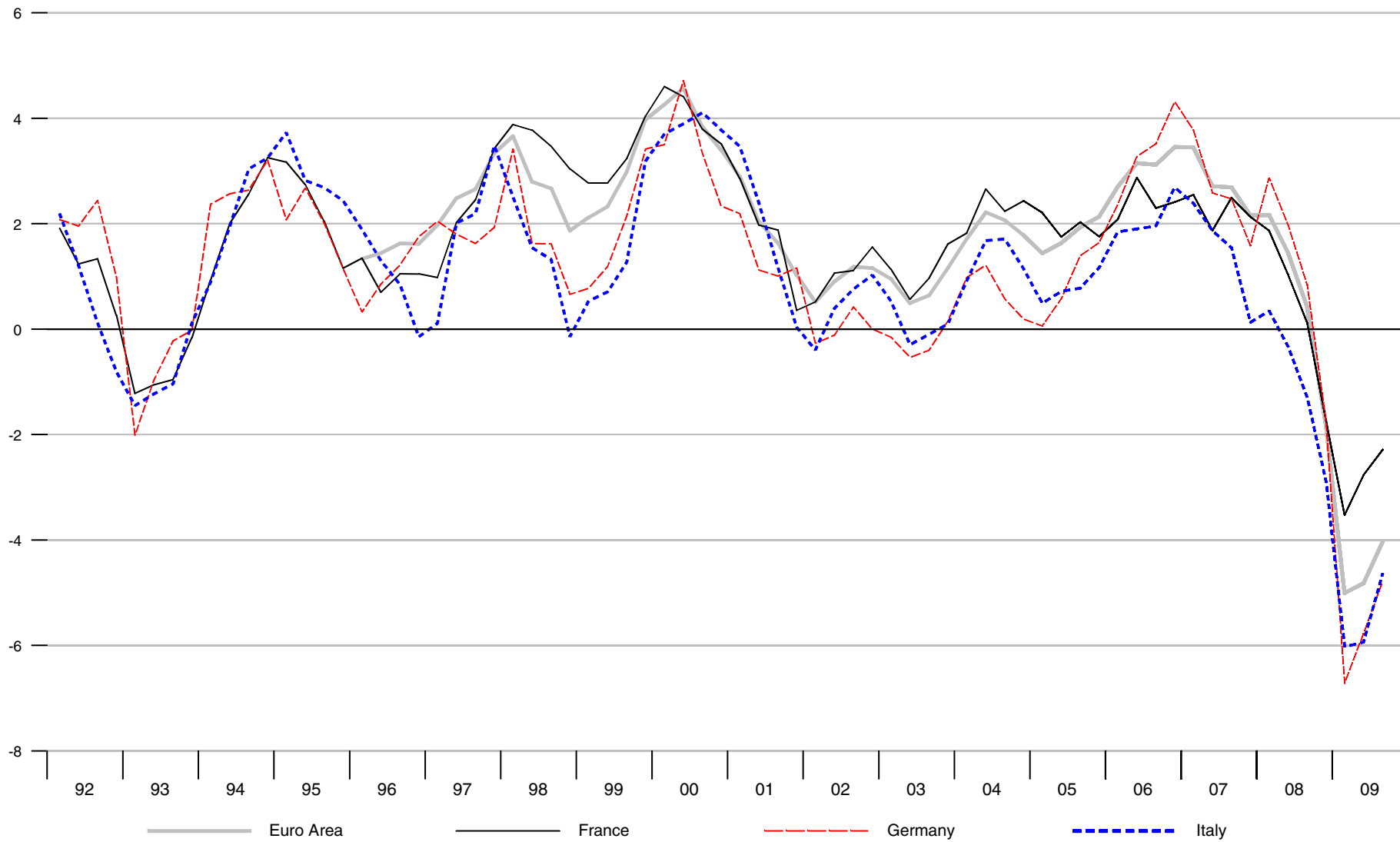
### Real Gross Domestic Product for Canada, Japan, United Kingdom, and United States

Percent change from year ago



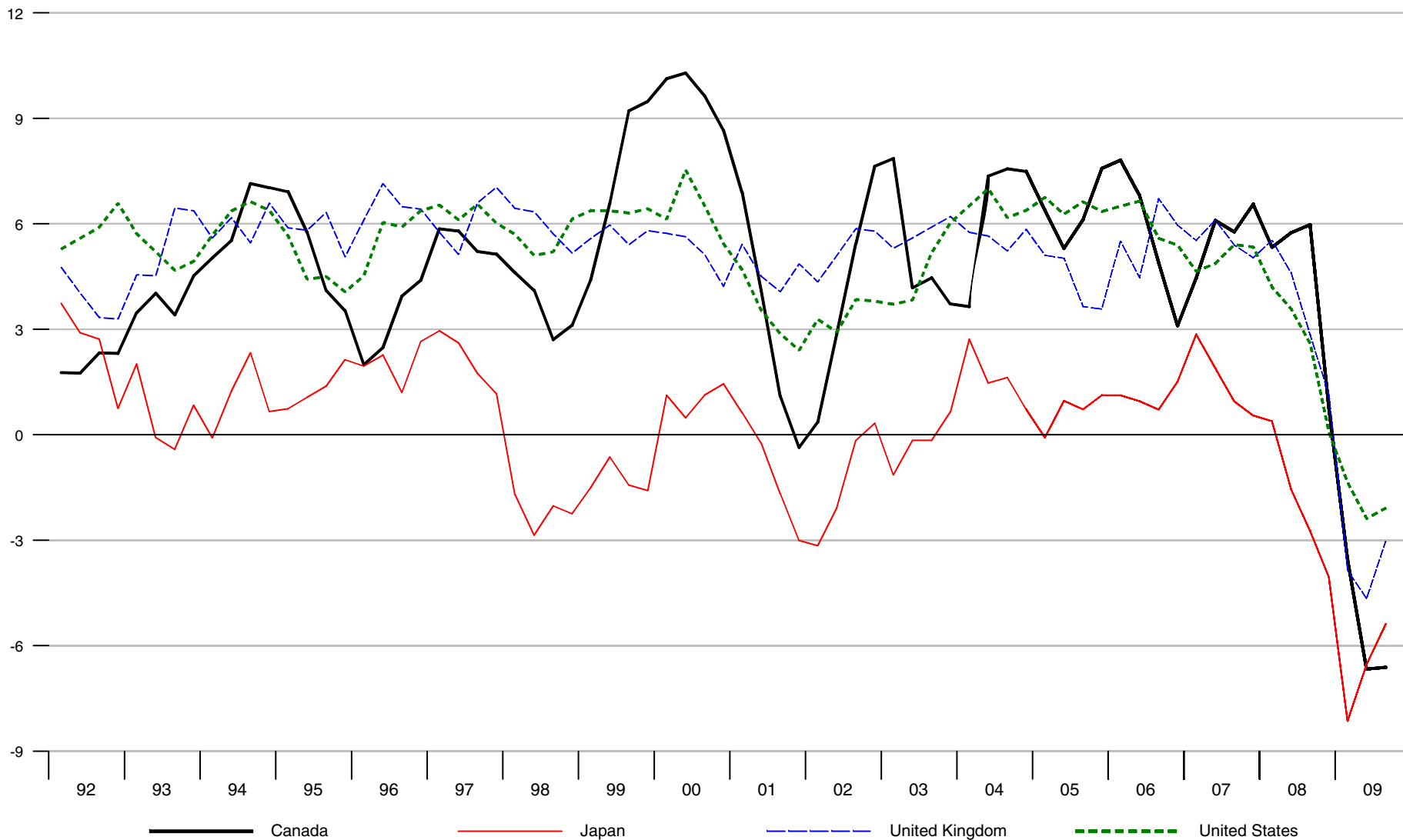
### Real Gross Domestic Product for Euro Area, France, Germany, and Italy

Percent change from year ago



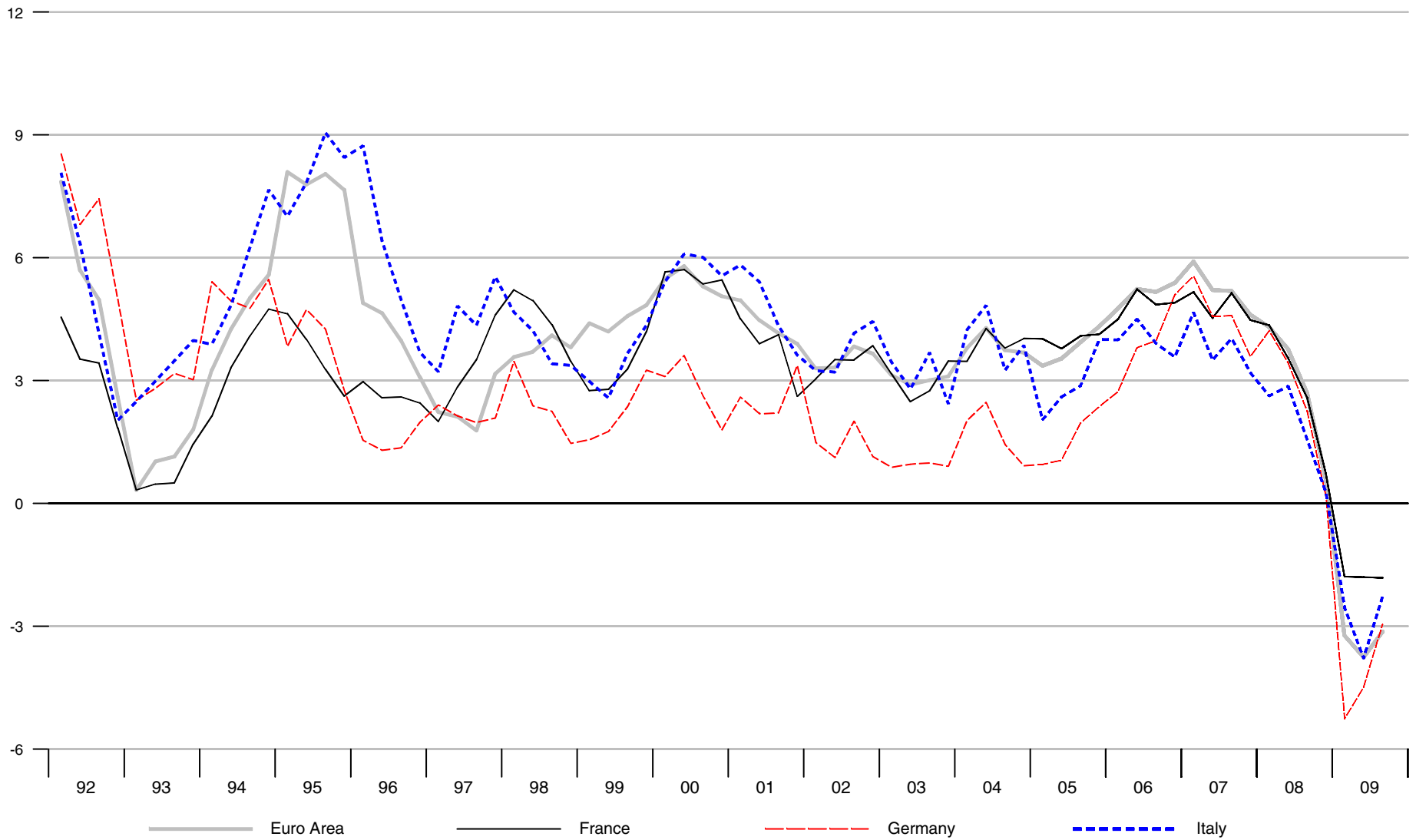
### Nominal Gross Domestic Product for Canada, Japan, United Kingdom, and United States

Percent change from year ago



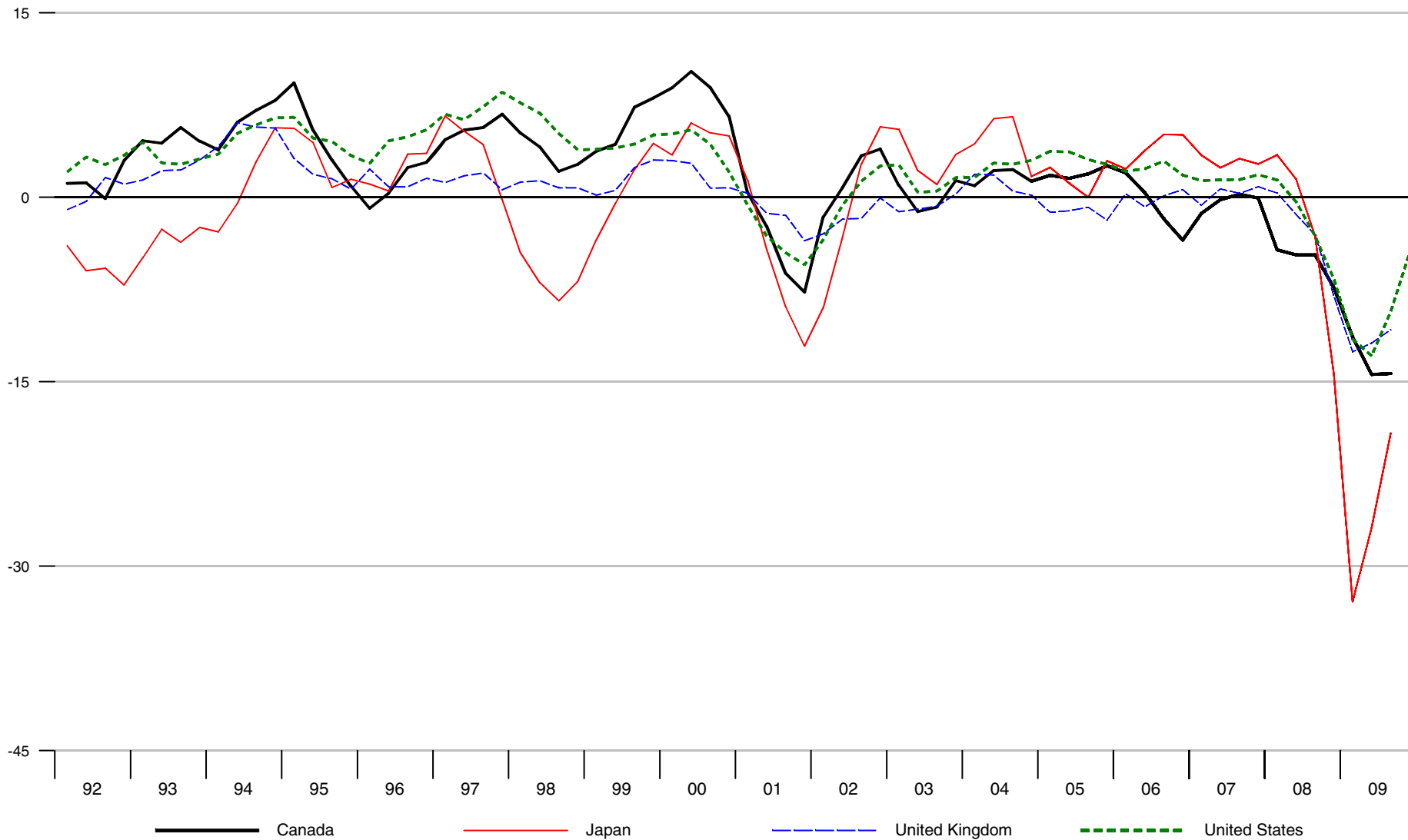
### Nominal Gross Domestic Product for Euro Area, France, Germany, and Italy

Percent change from year ago



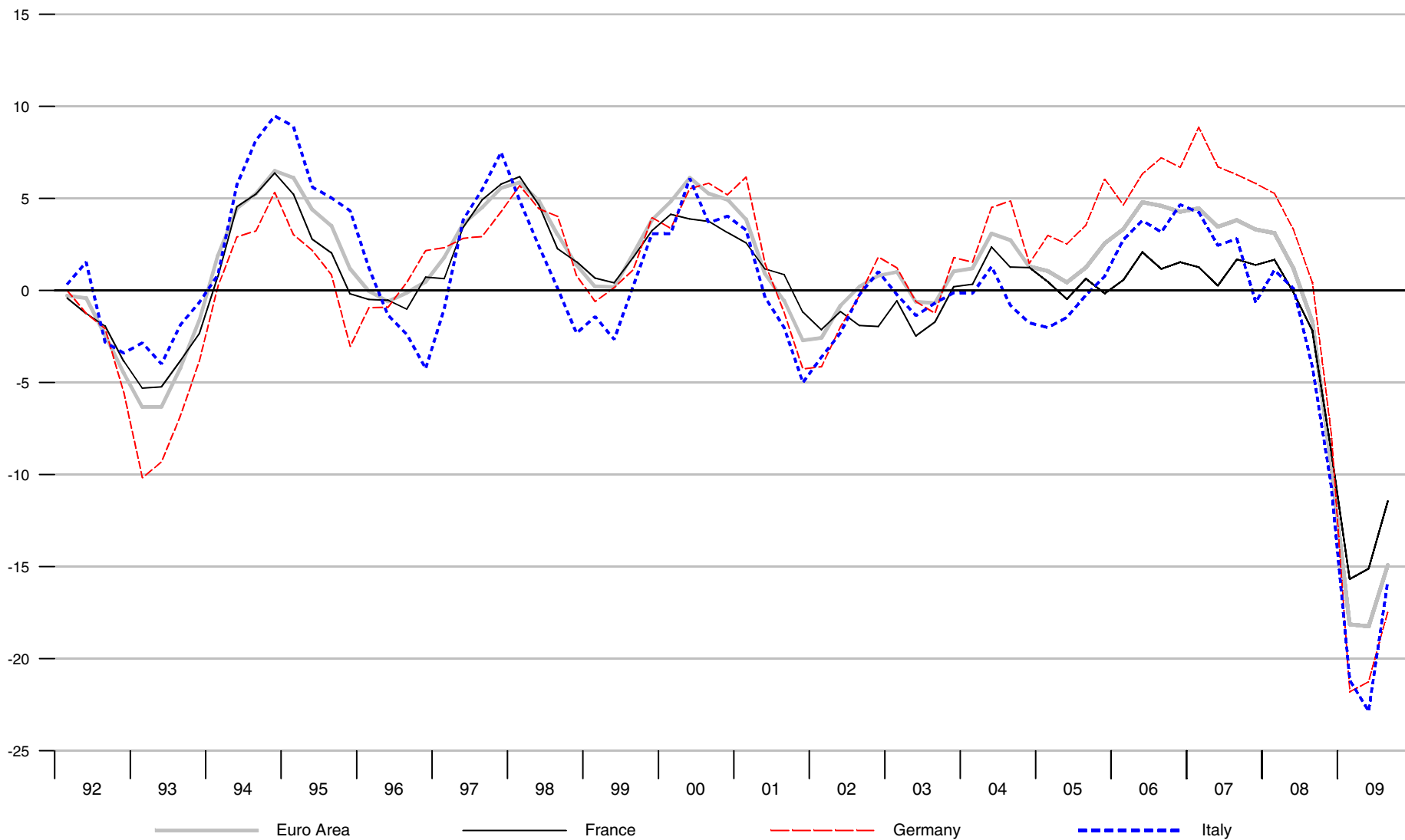
### Industrial Production for Canada, Japan, United Kingdom, and United States

Percent change from year ago



### Industrial Production for Euro Area, France, Germany, and Italy

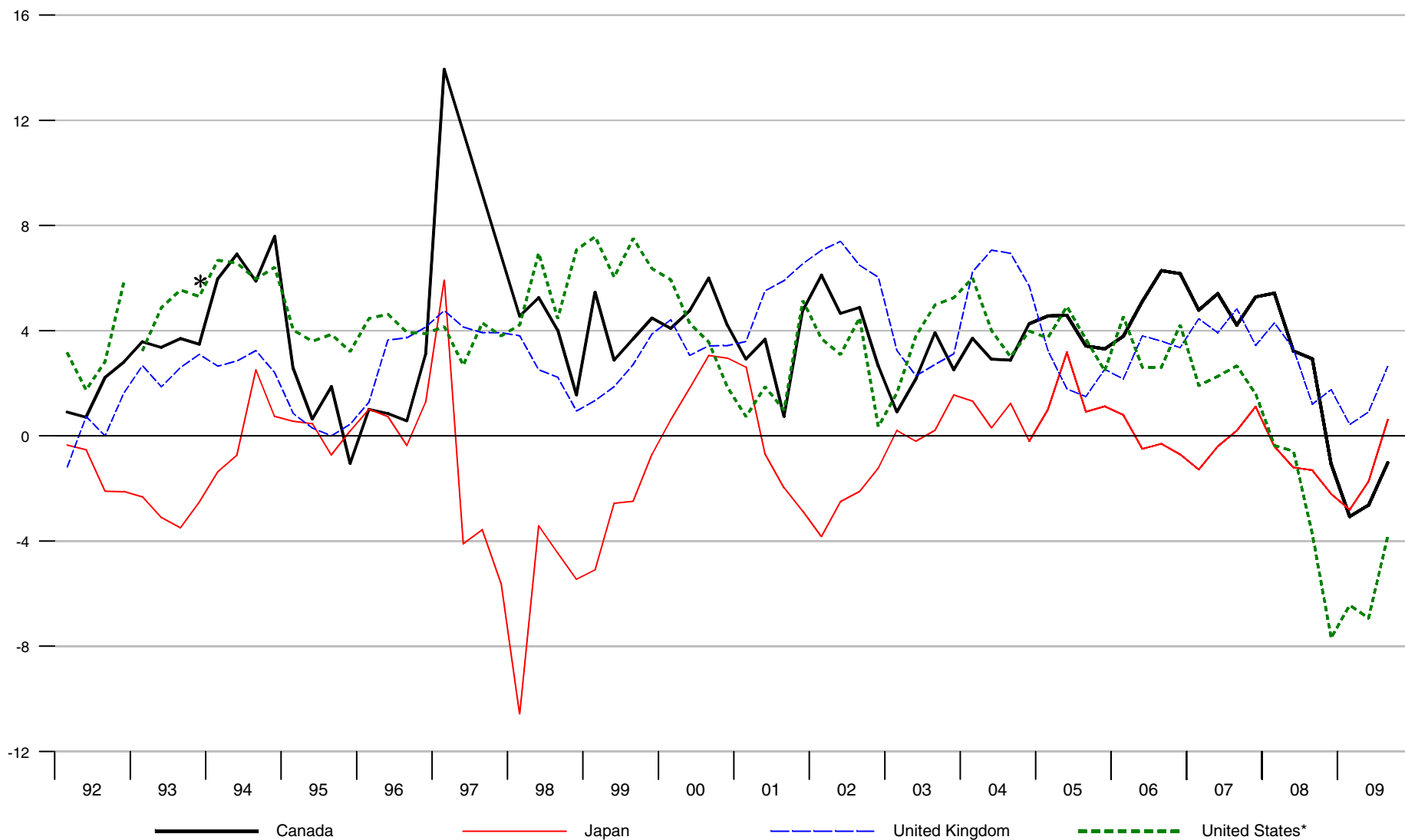
Percent change from year ago





### Retail Sales for Canada, Japan, United Kingdom, and United States

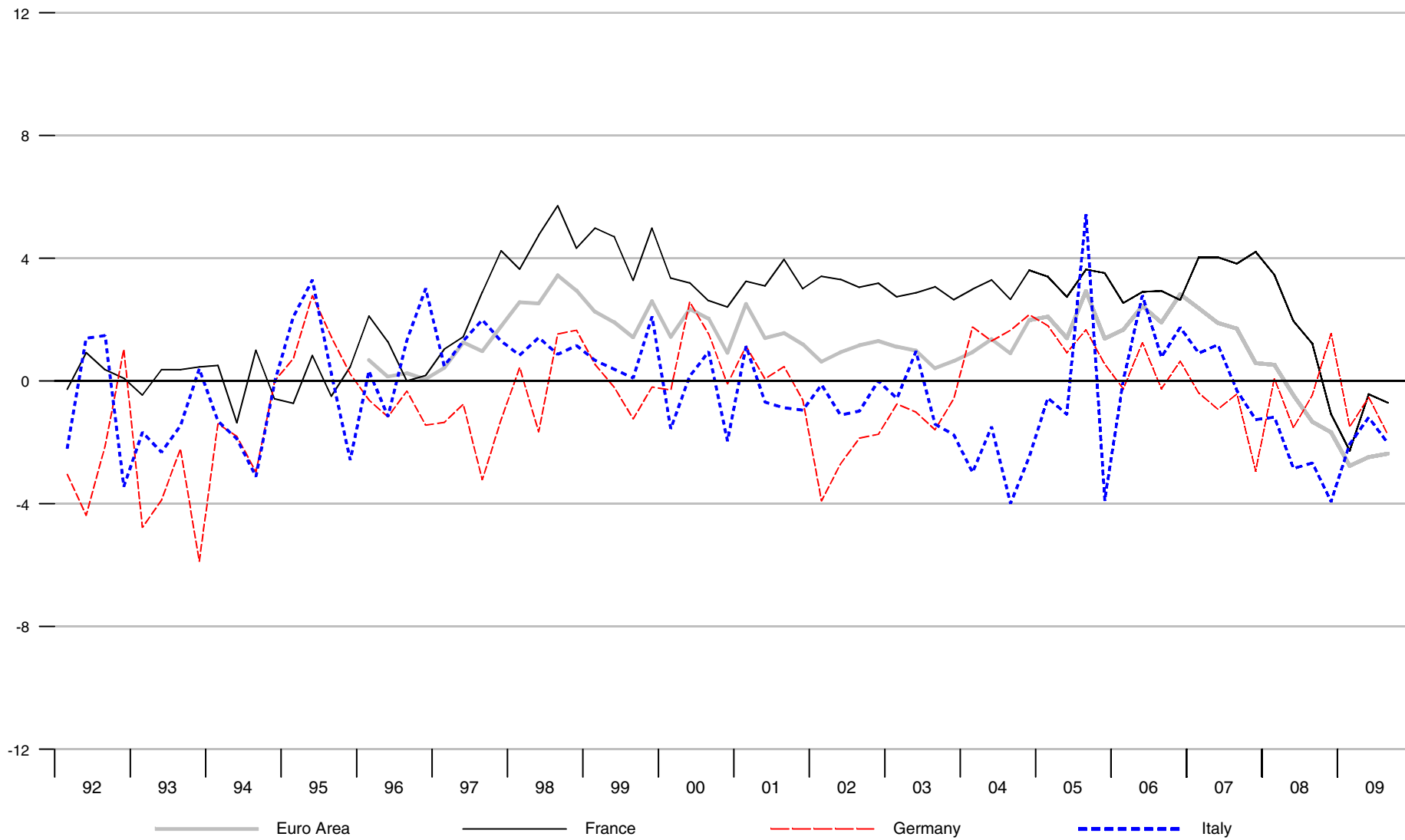
Percent change from year ago



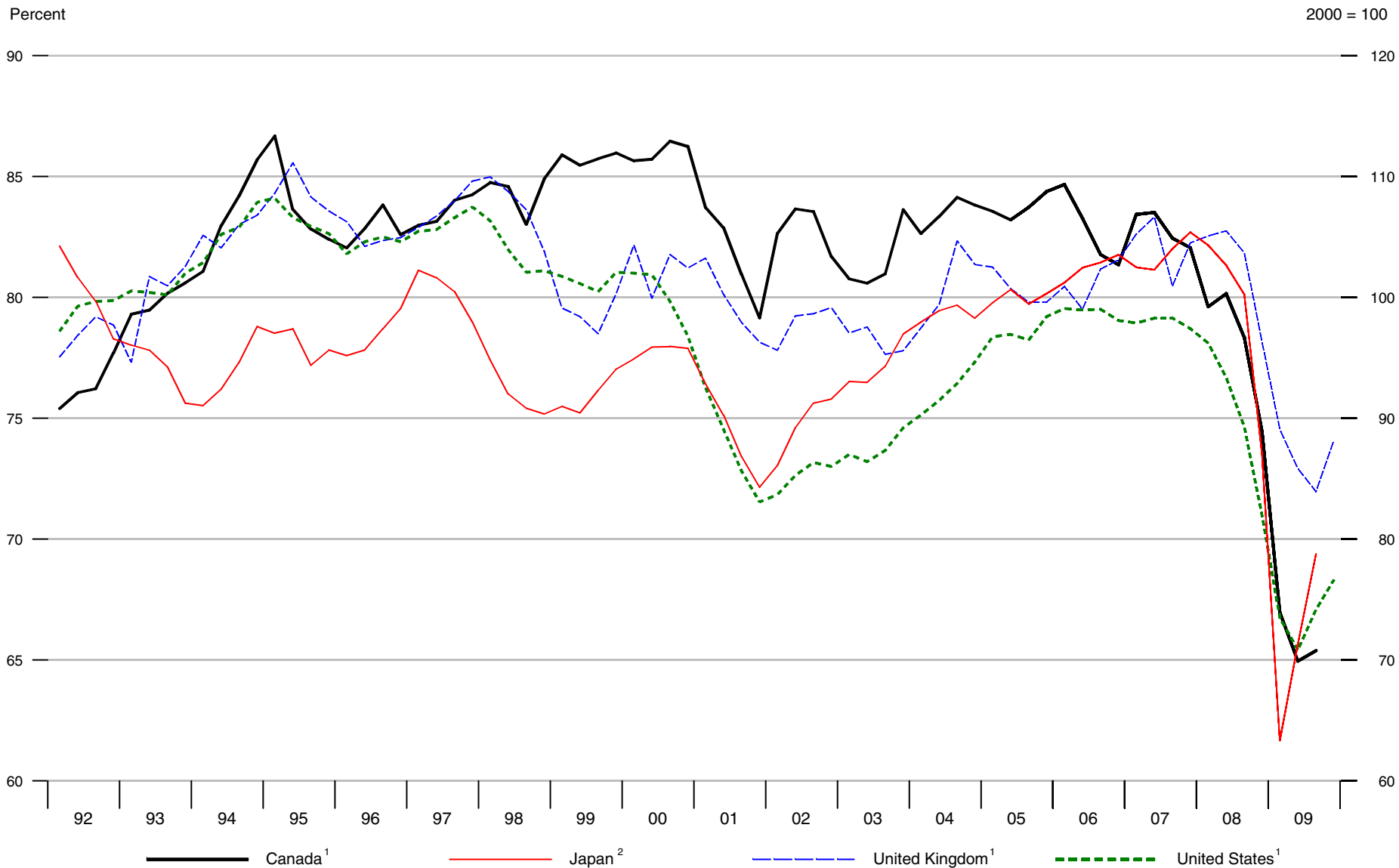
\*Data prior to 1993 may not be strictly comparable with later figures (see Notes).

### Retail Sales for Euro Area, France, Germany, and Italy

Percent change from year ago

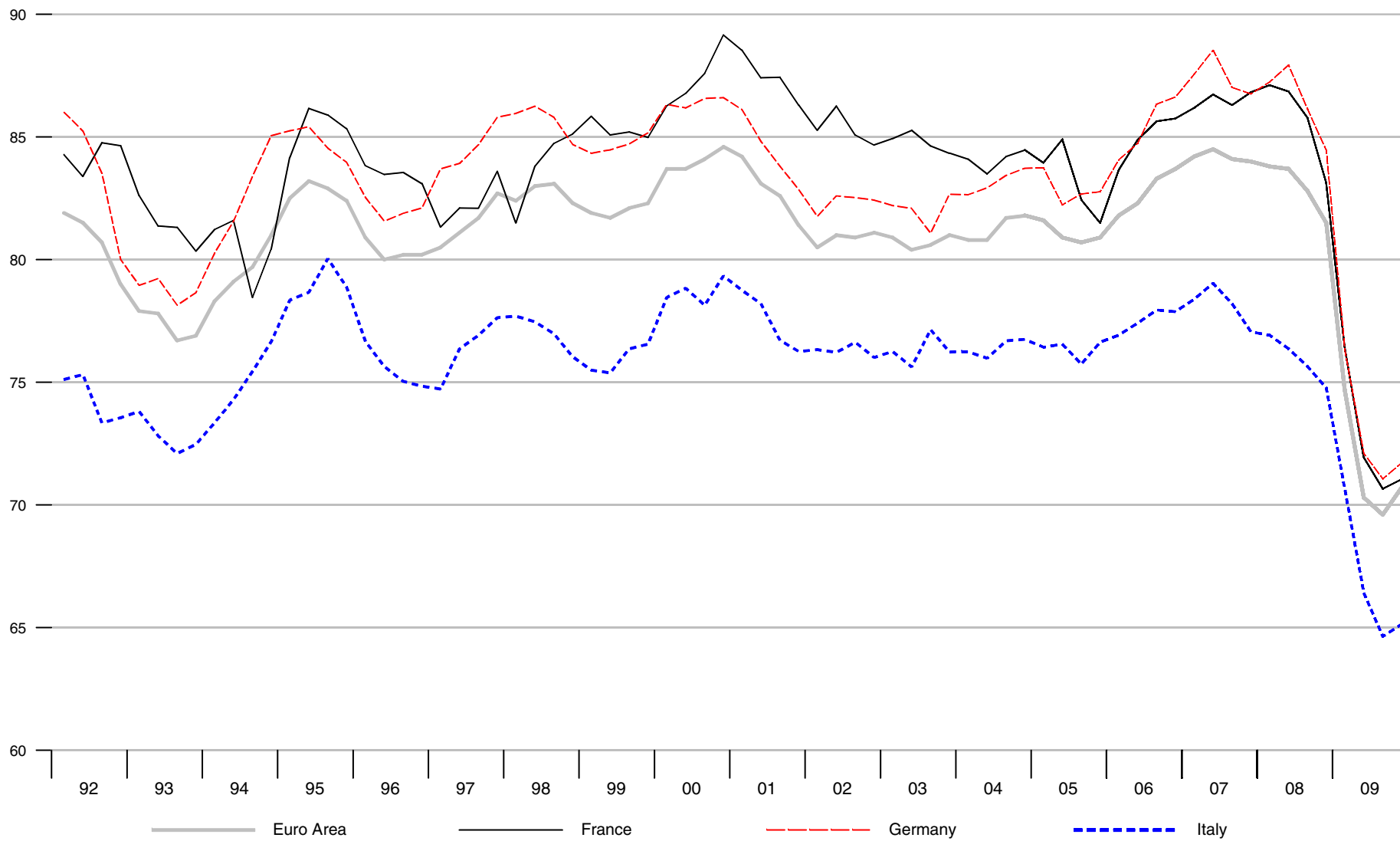


### Capacity Utilization for Canada, Japan, United Kingdom, and United States



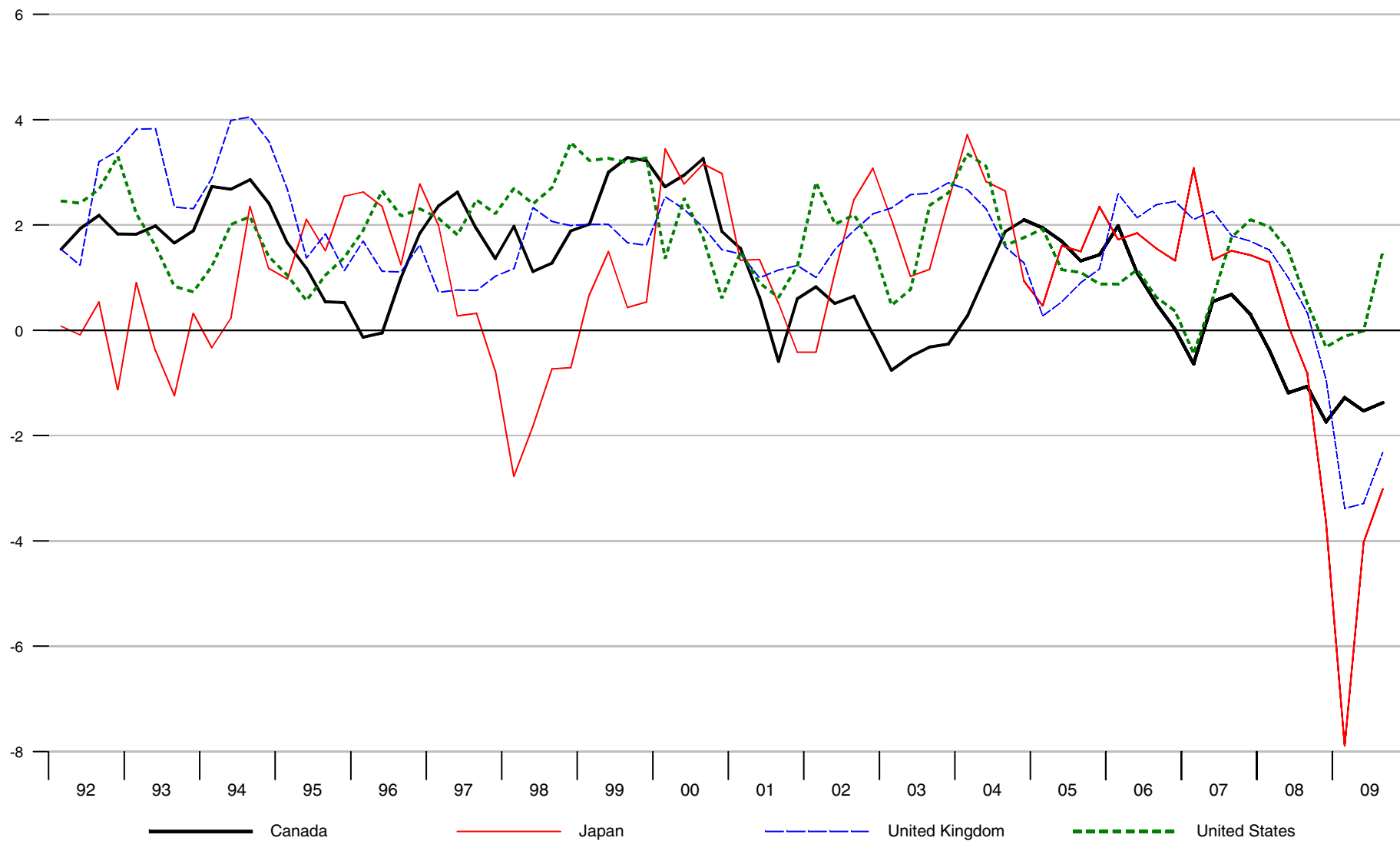
### Capacity Utilization for Euro Area, France, Germany, and Italy

Percent



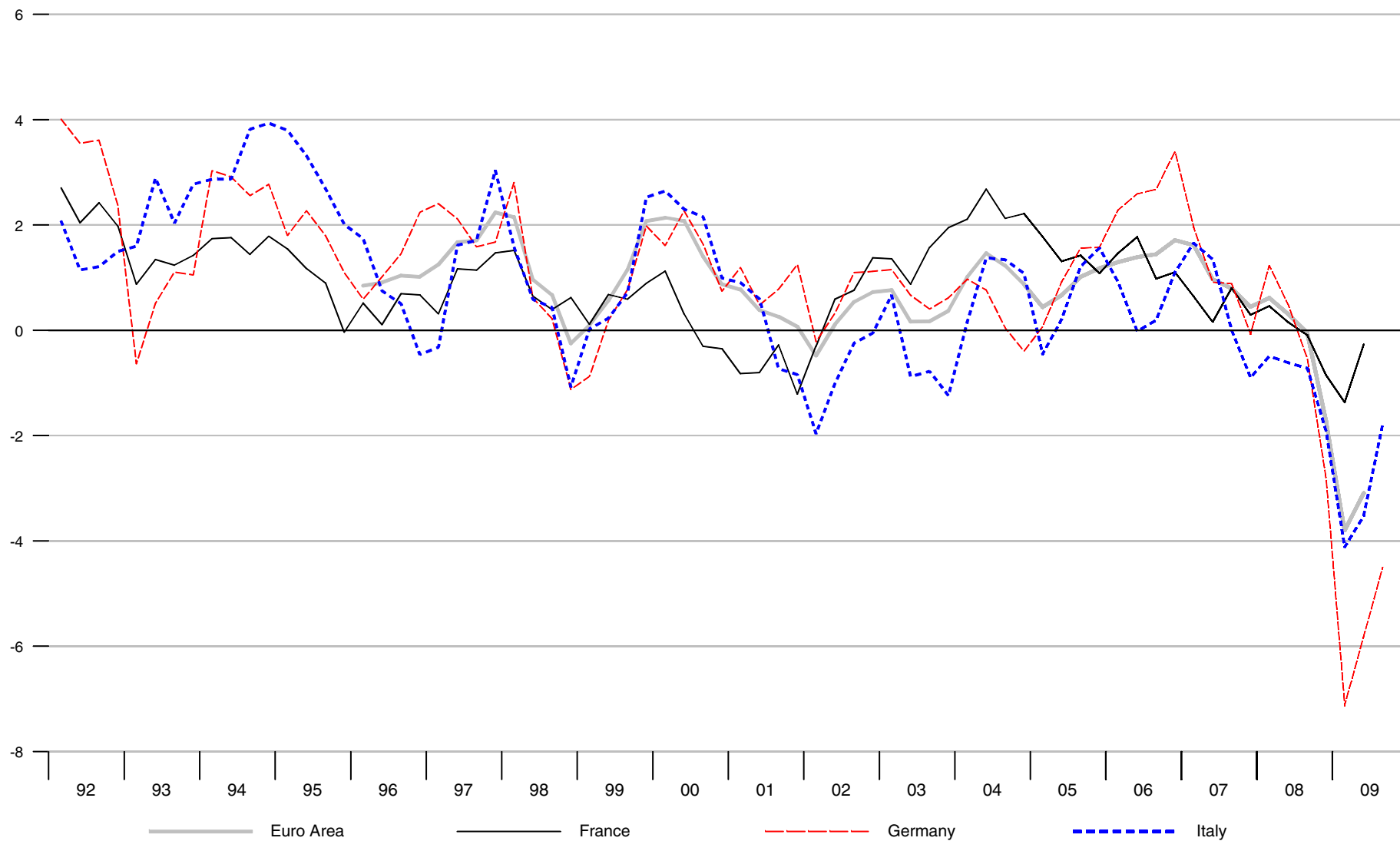
### Output per Worker for Canada, Japan, United Kingdom, and United States

Percent change from year ago



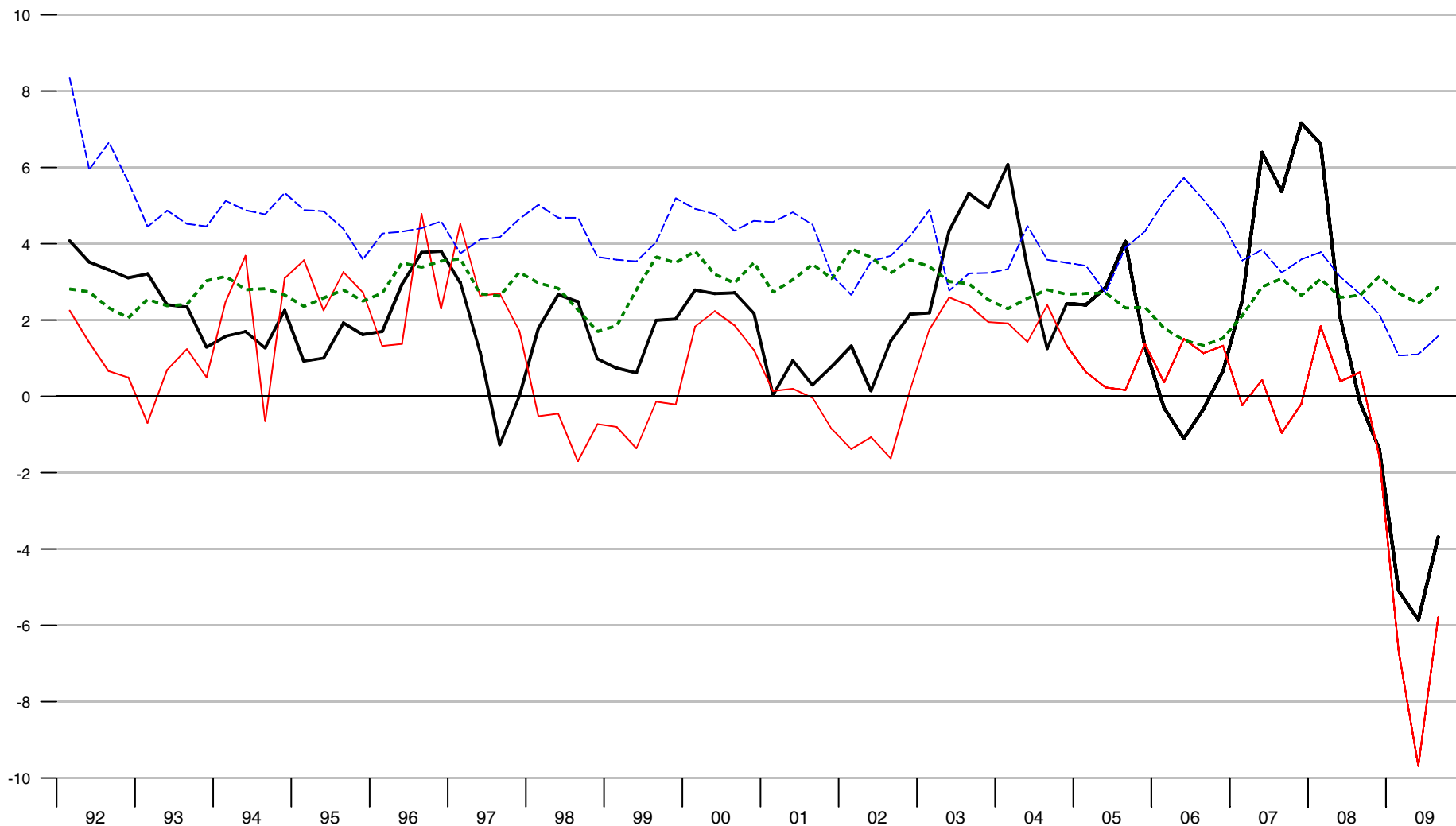
### Output per Worker for Euro Area, France, Germany, and Italy

Percent change from year ago



### Real Earnings for Canada, Japan, United Kingdom, and United States

Percent change from year ago

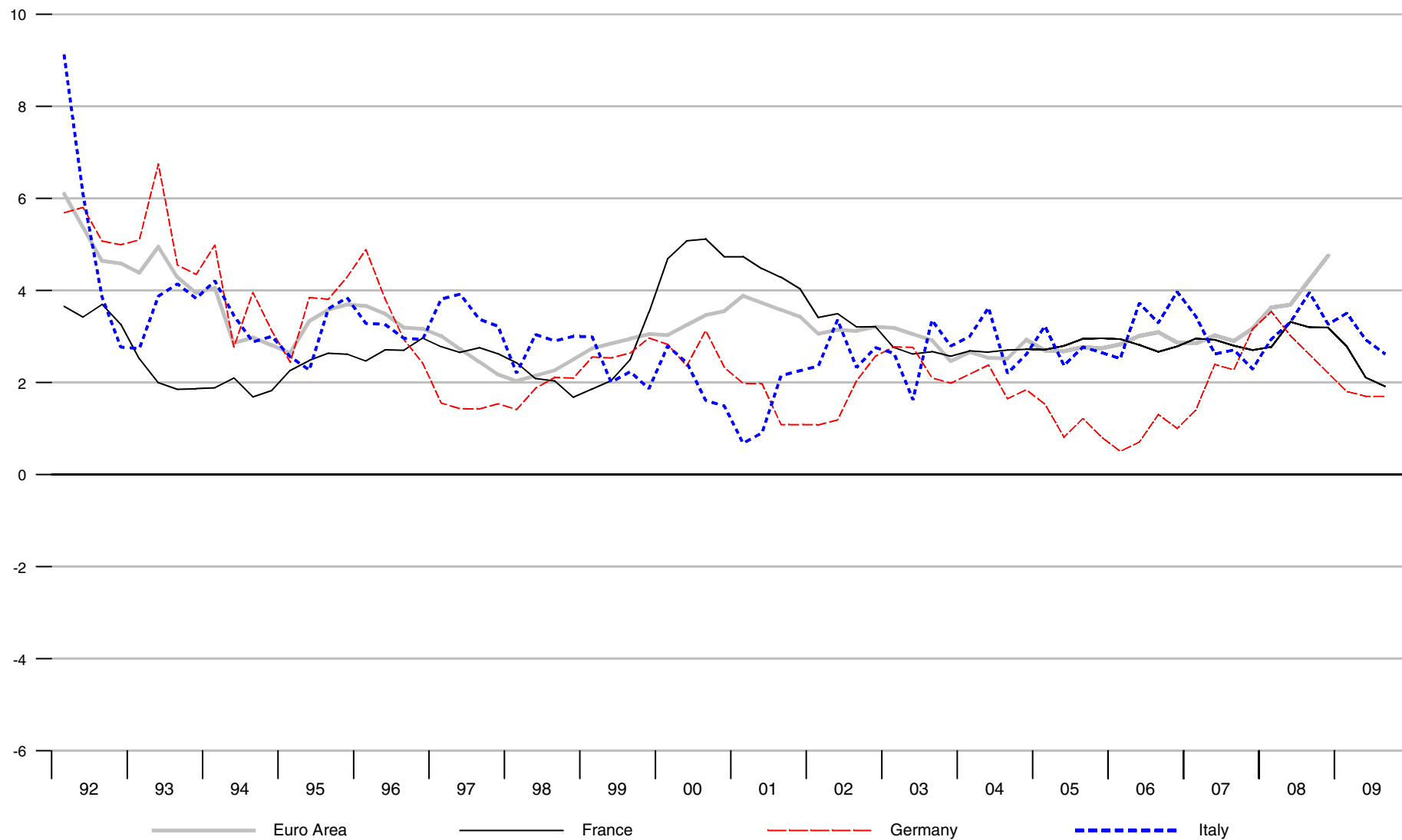


— Canada<sup>1</sup>
— Japan<sup>2</sup>
- - - United Kingdom<sup>3</sup>
- - - United States<sup>1</sup>

<sup>1</sup> Hourly Earnings, <sup>2</sup> Monthly Earnings, <sup>3</sup> Weekly Earnings

### Real Hourly Earnings for Euro Area, France, Germany, and Italy

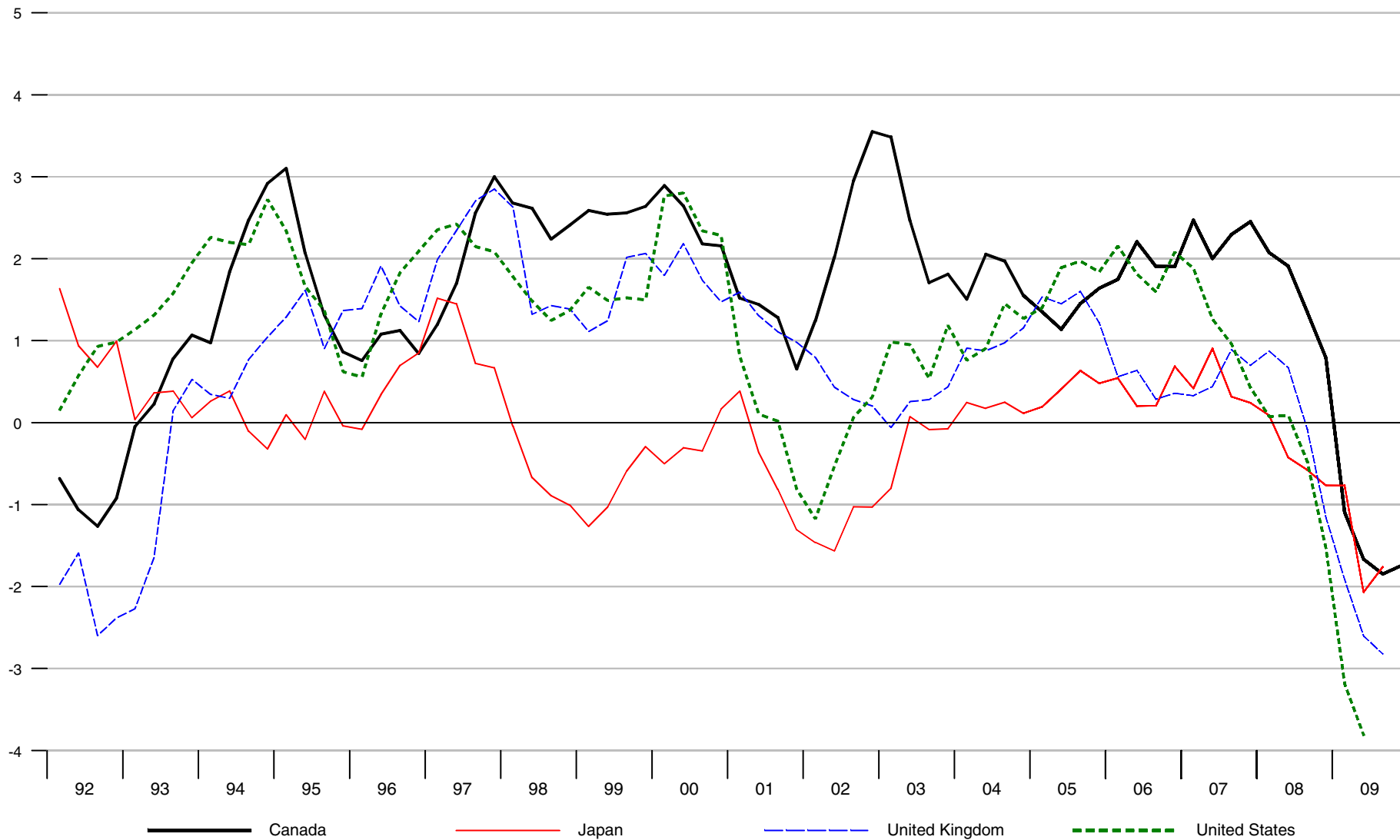
Percent change from year ago





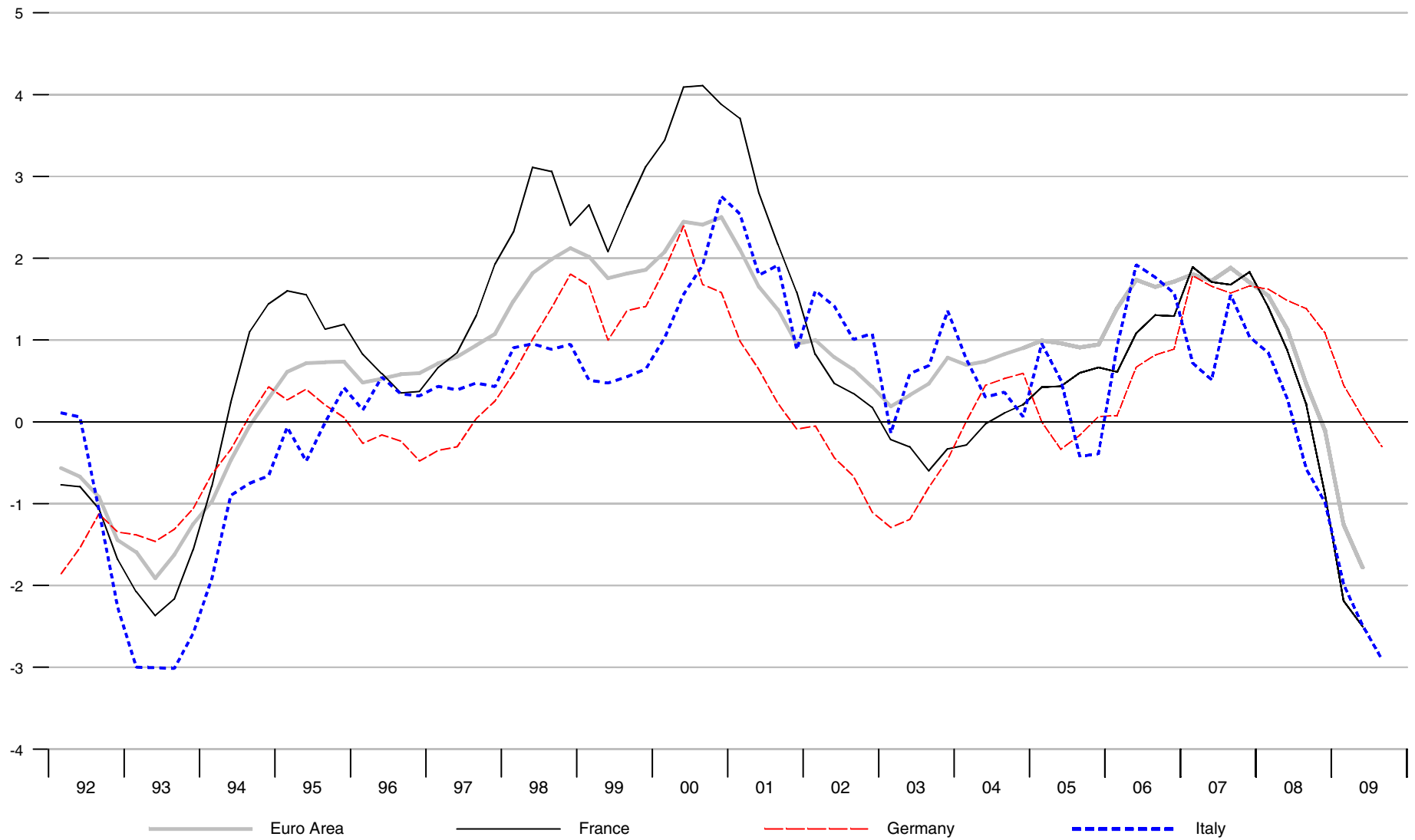
### Employment for Canada, Japan, United Kingdom, and United States

Percent change from year ago

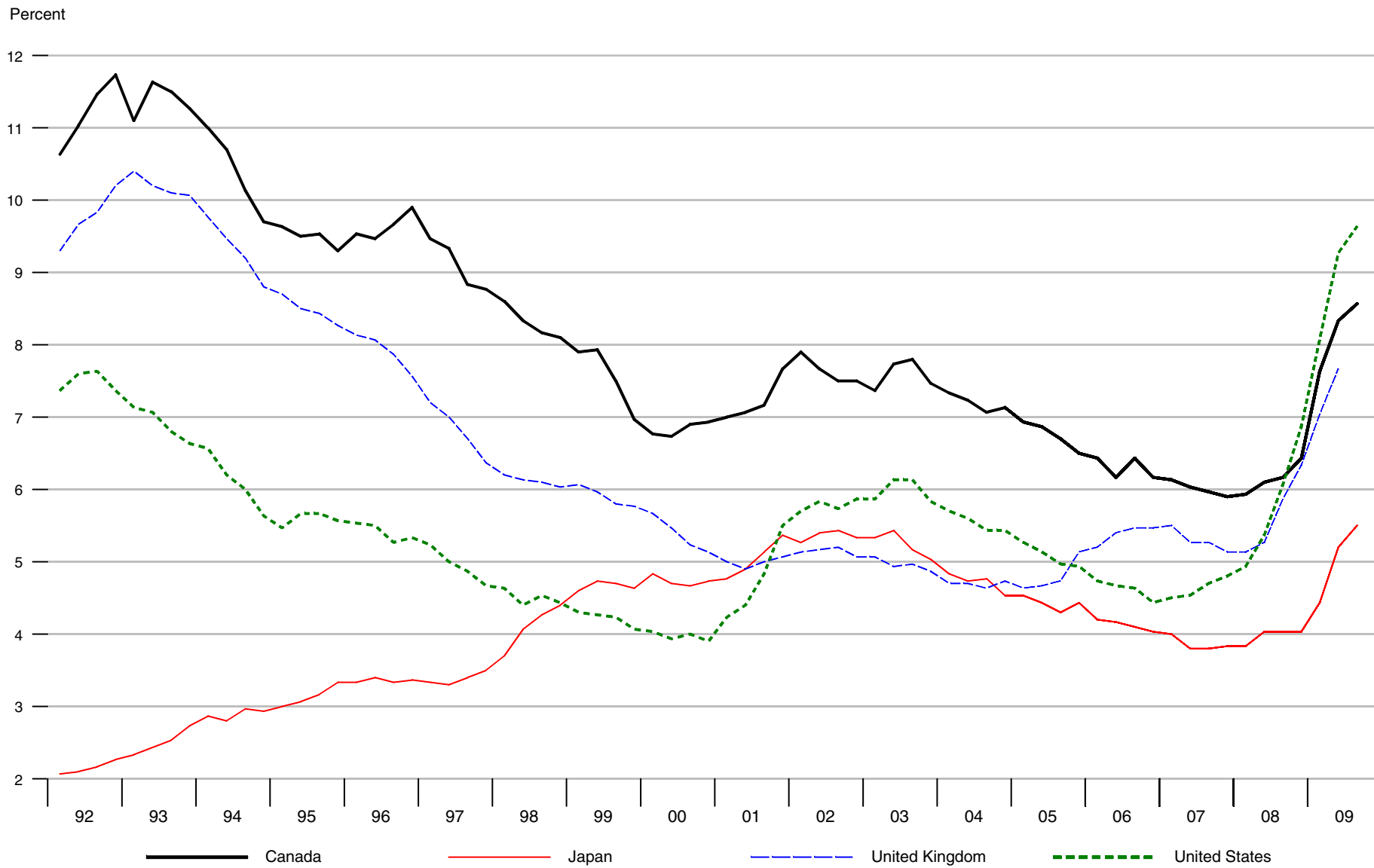


### Employment for Euro Area, France, Germany, and Italy

Percent change from year ago

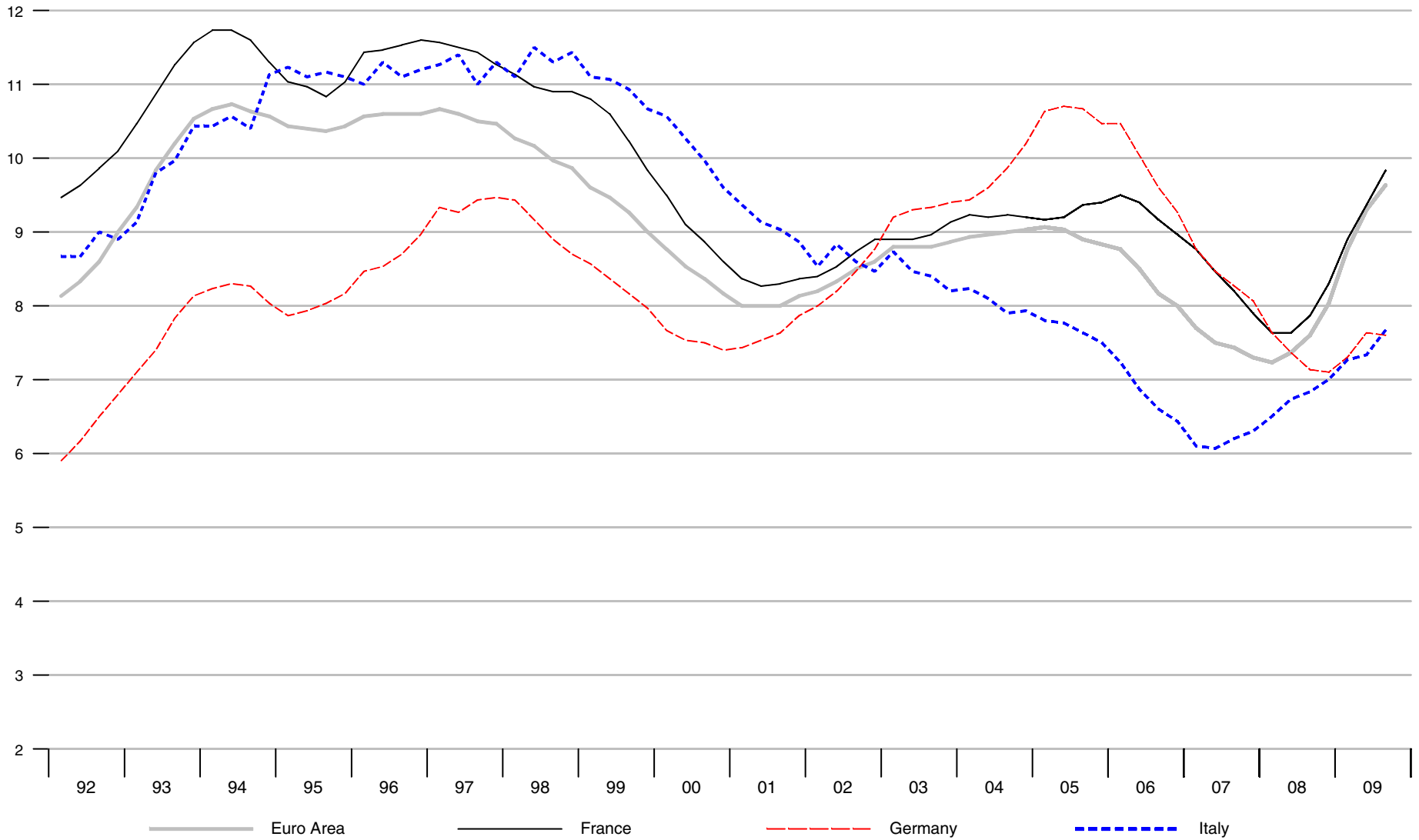


### Unemployment Rate for Canada, Japan, United Kingdom, and United States



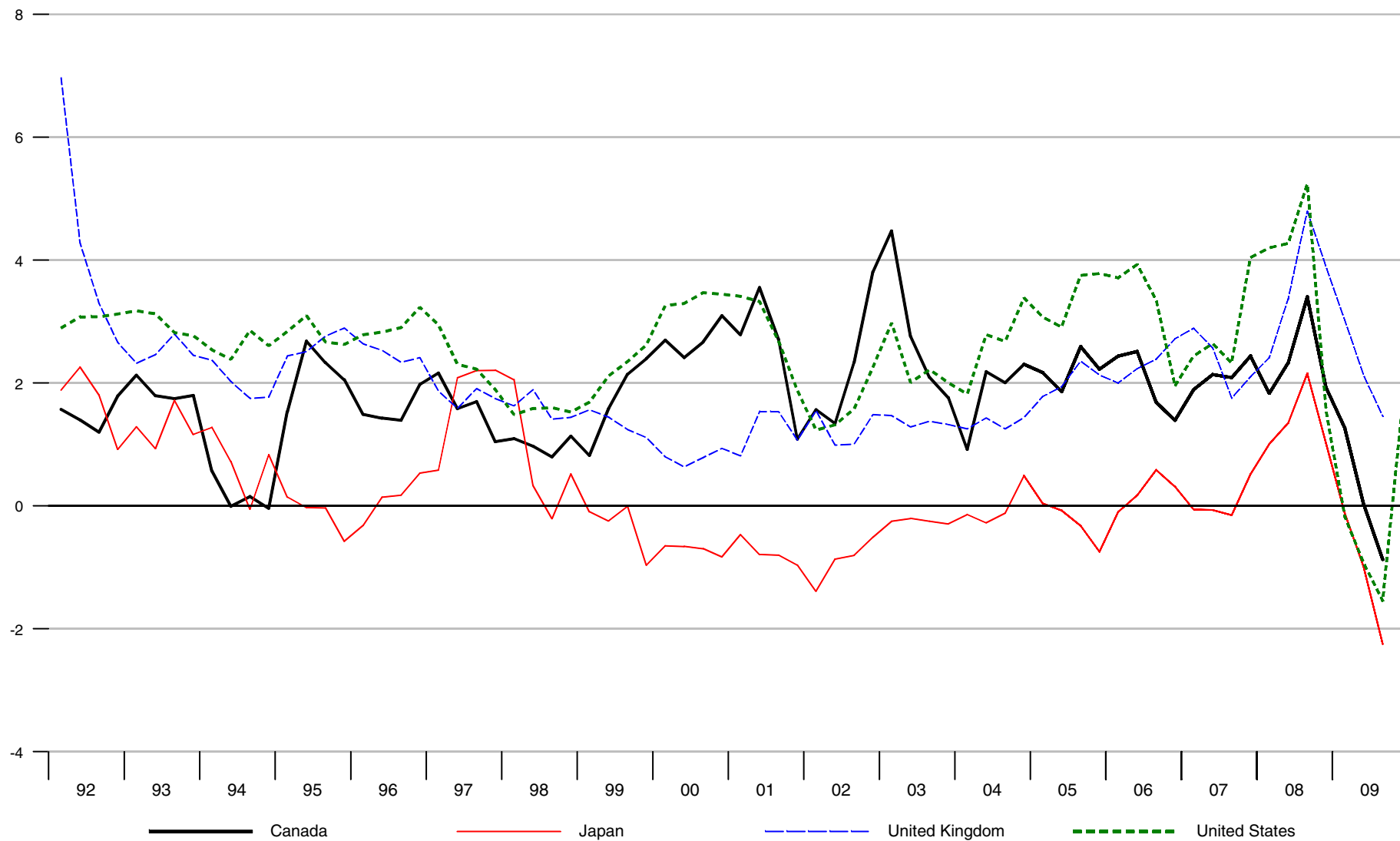
### Unemployment Rate for Euro Area, France, Germany, and Italy

Percent



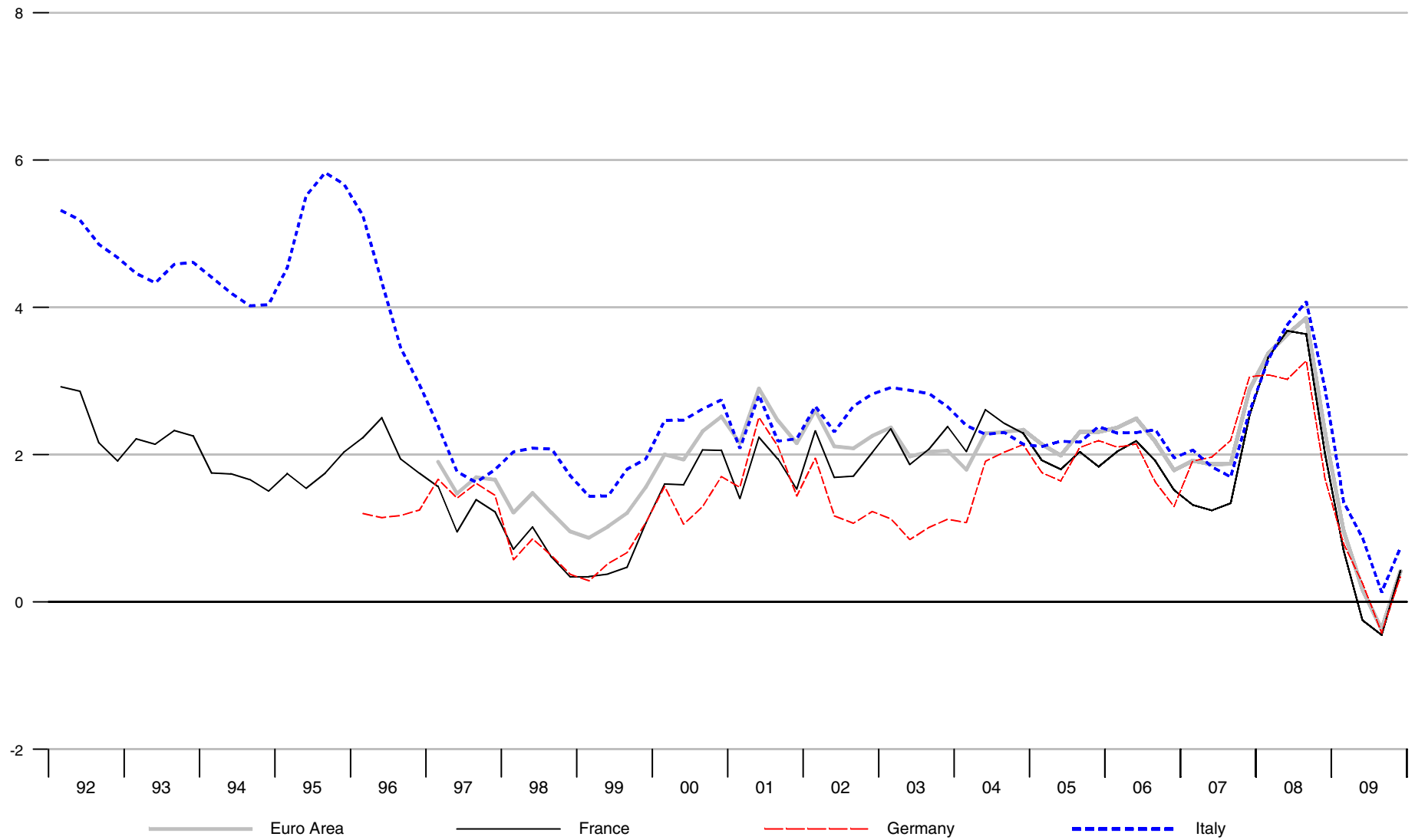
### Consumer Price Index for Canada, Japan, United Kingdom, and United States

Percent change from year ago



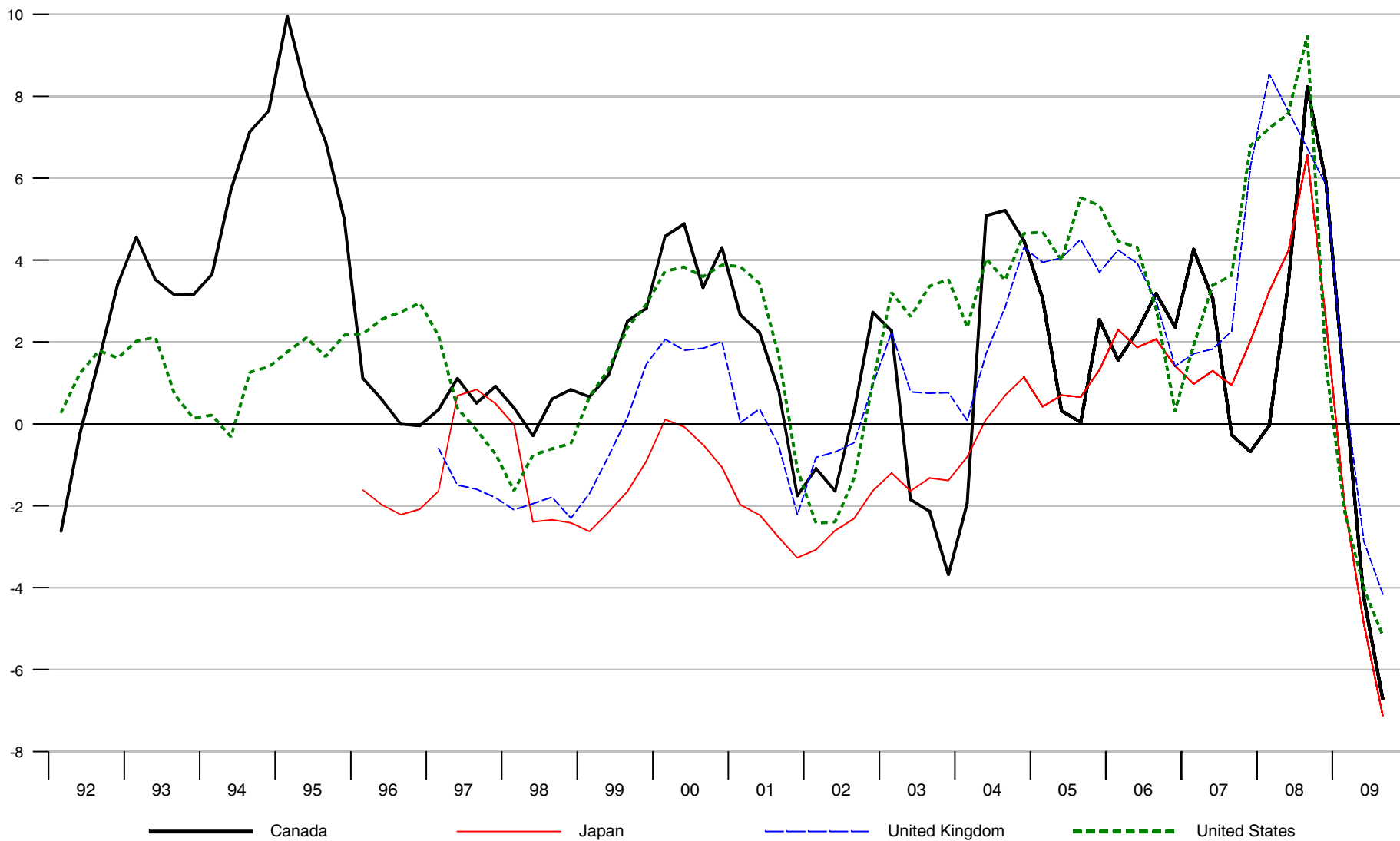
### Consumer Price Index for Euro Area, France, Germany, and Italy

Percent change from year ago



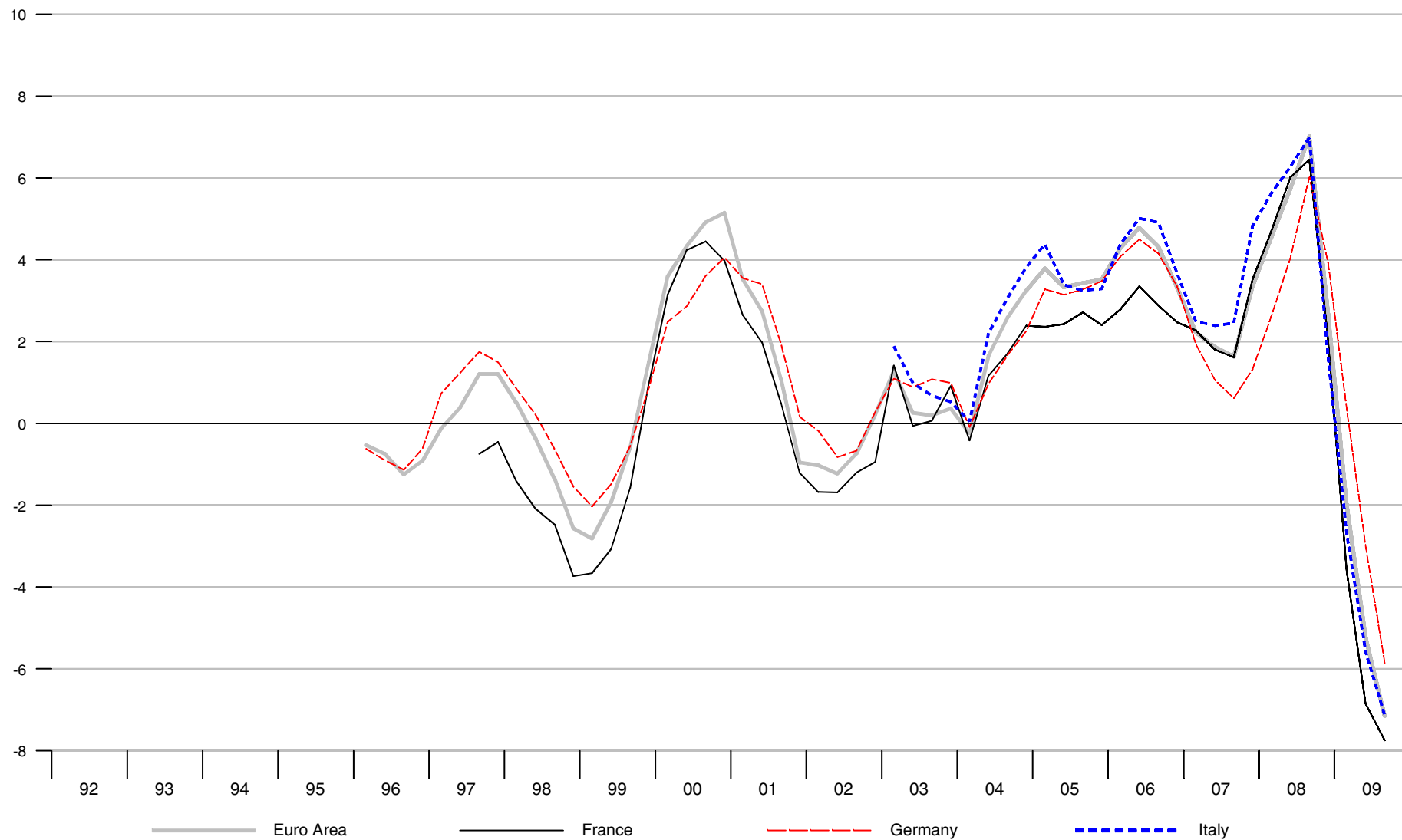
### Producer Price Index for Canada, Japan, United Kingdom, and United States

Percent change from year ago



### Producer Price Index for Euro Area, France, Germany, and Italy

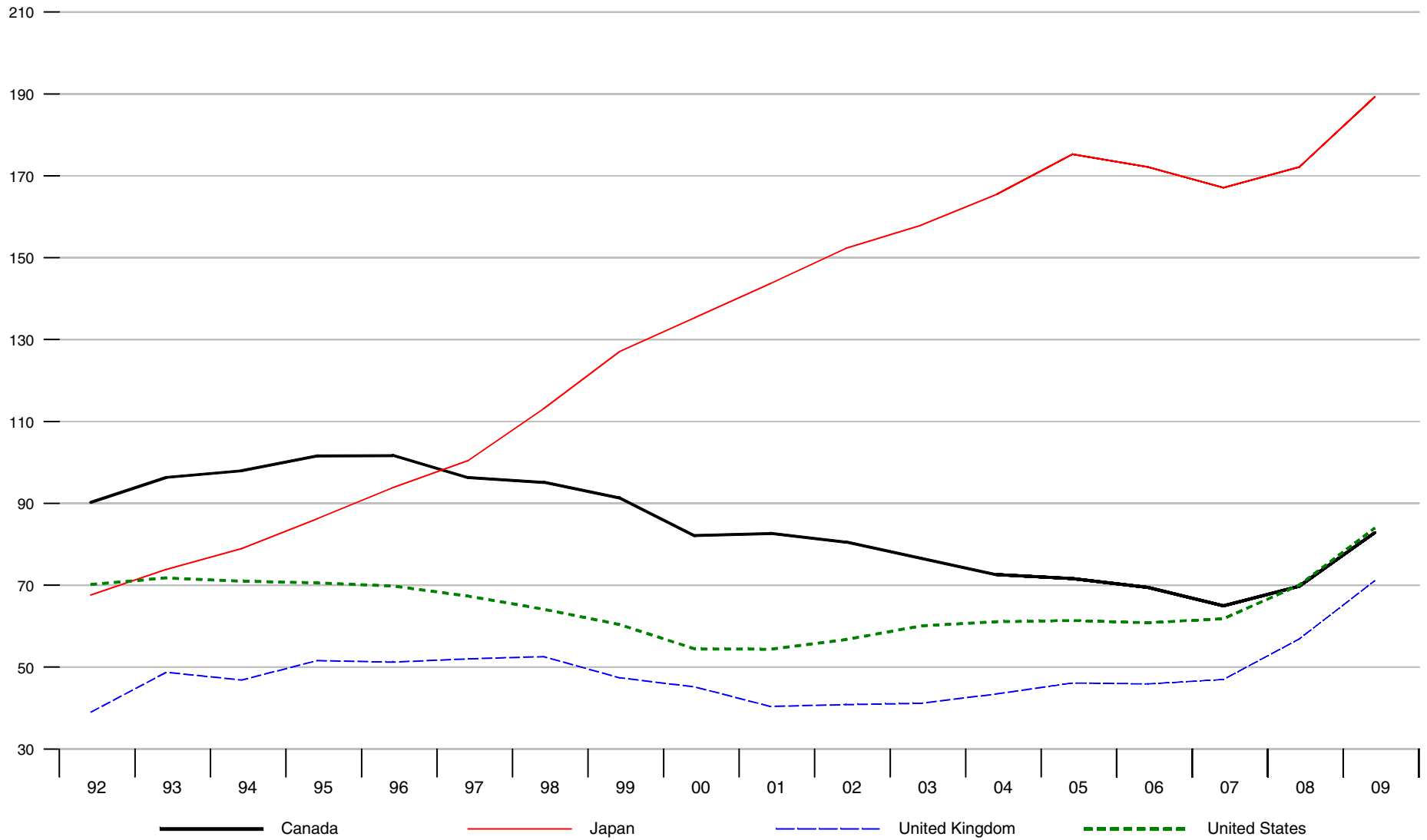
Percent change from year ago





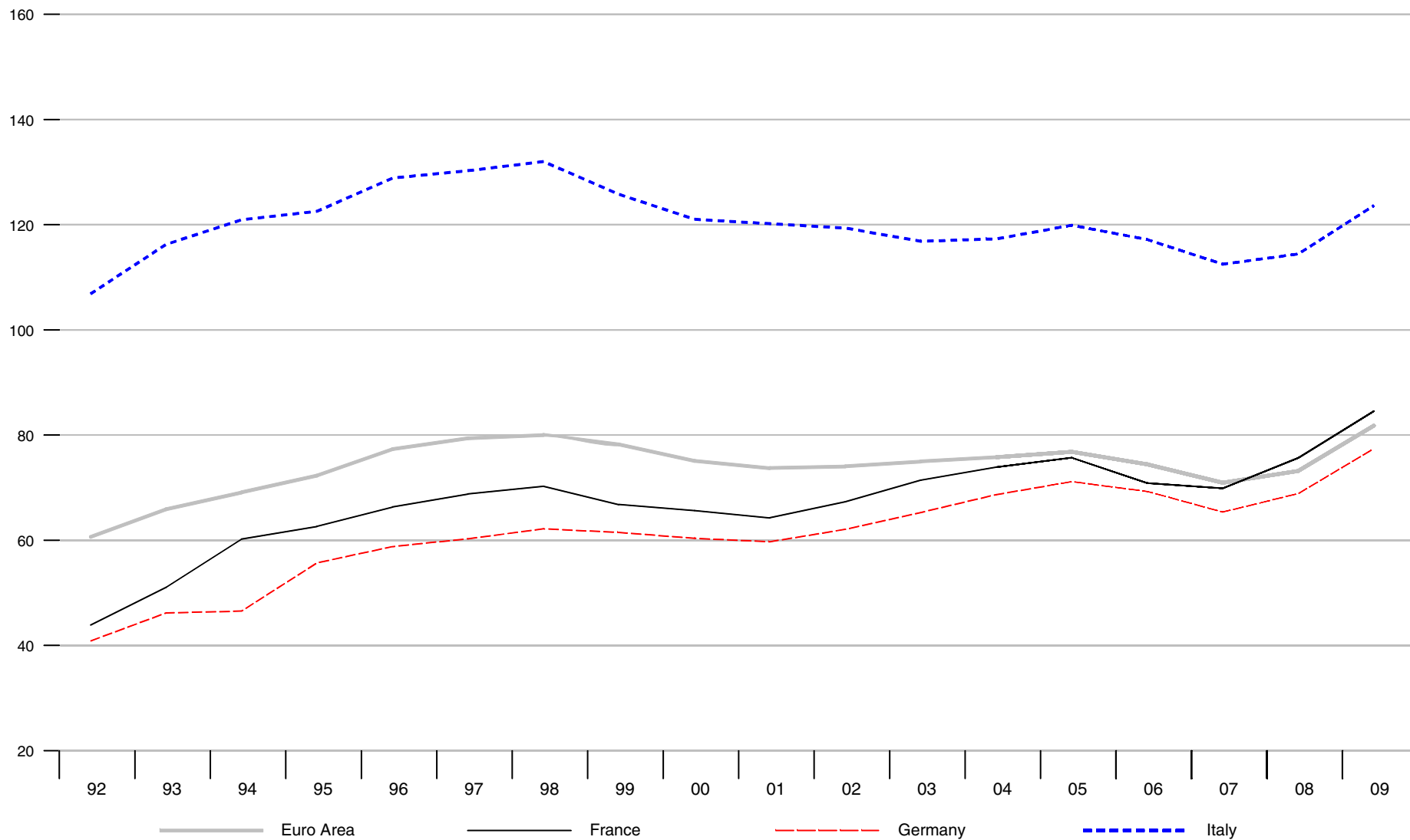
### Government Gross Debt for Canada, Japan, United Kingdom, and United States

Percent of GDP, annual data



### Government Gross Debt for Euro Area, France, Germany, and Italy

Percent of GDP, annual data



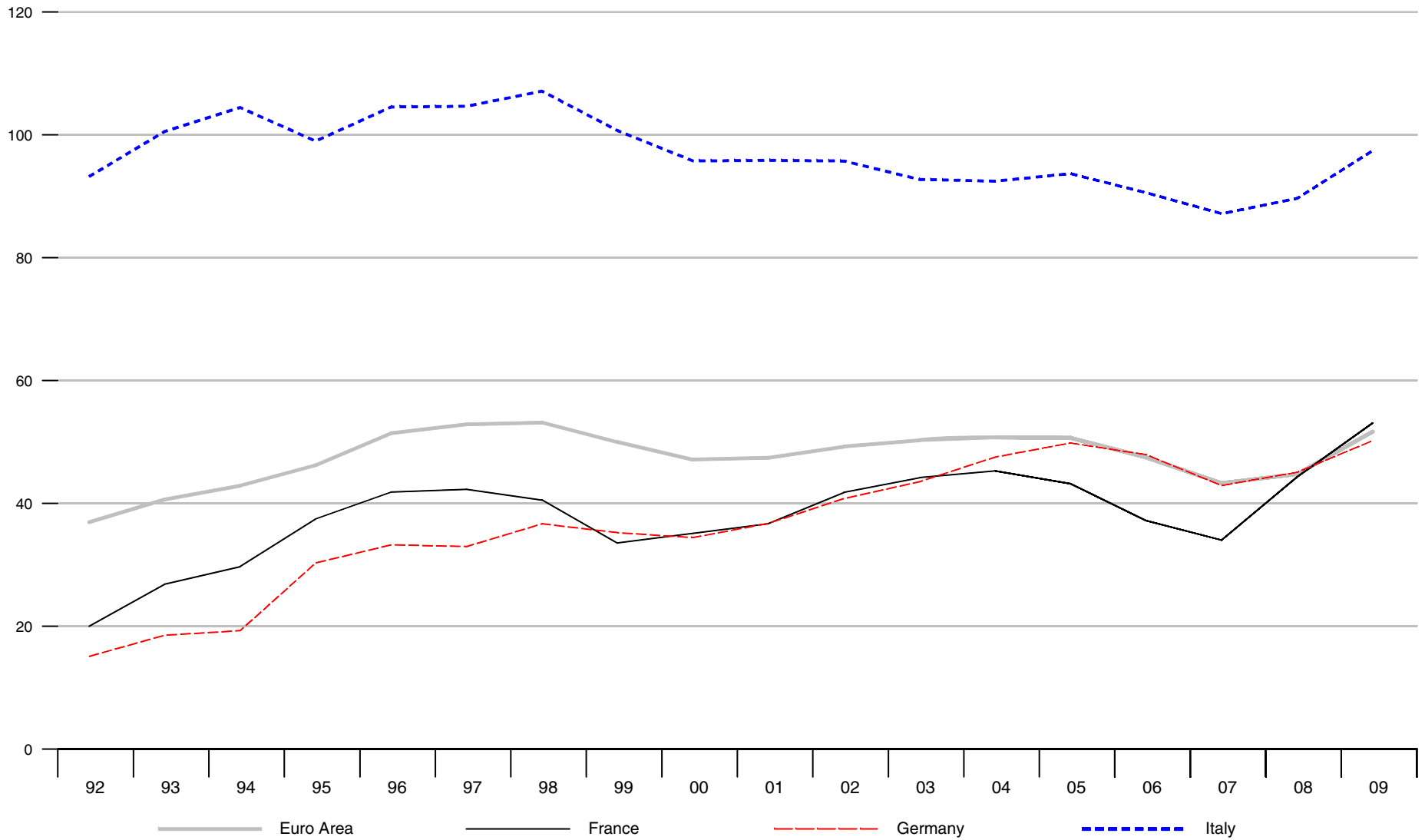
### Government Net Debt for Canada, Japan, United Kingdom, and United States

Percent of GDP, annual data



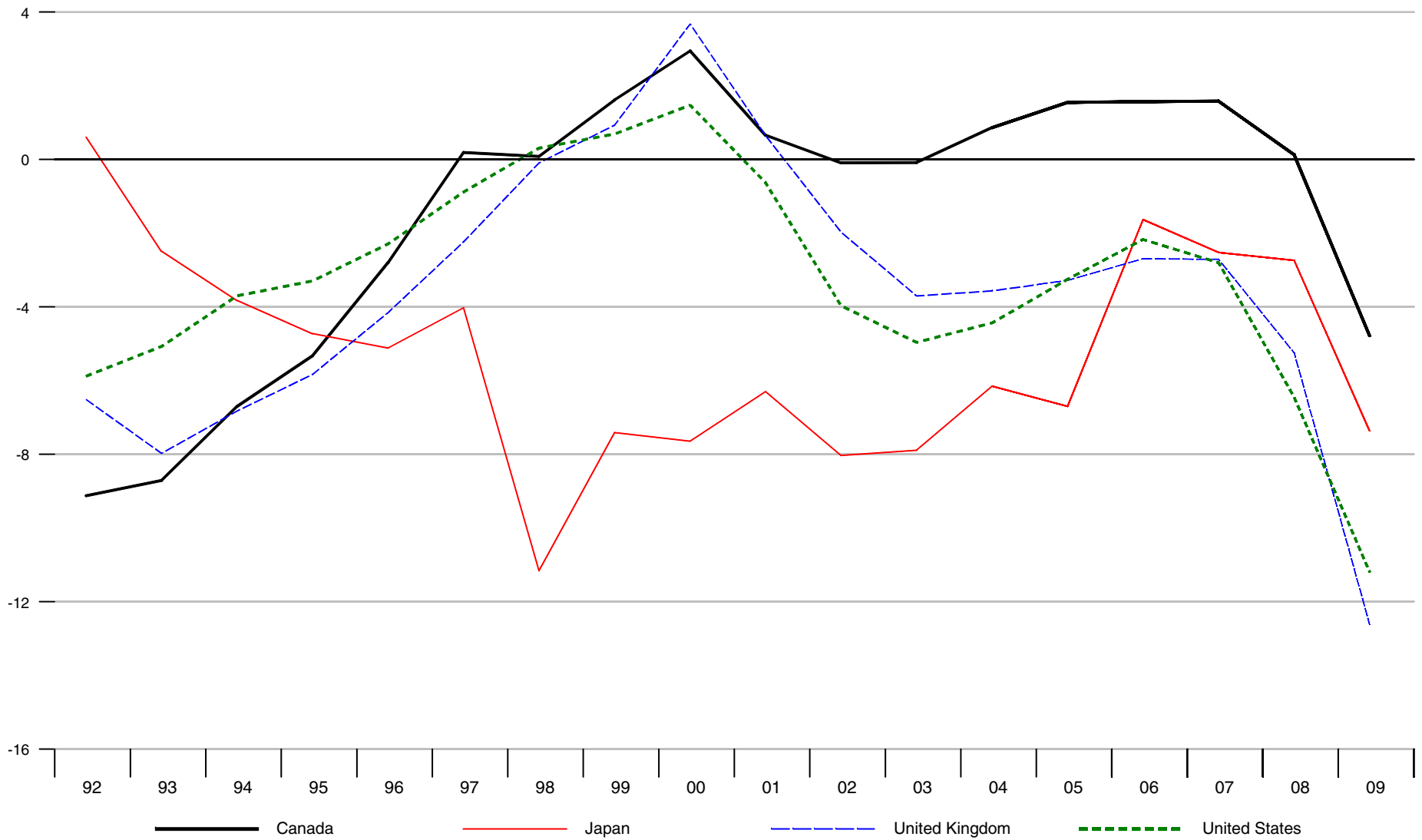
### Government Net Debt for Euro Area, France, Germany, and Italy

Percent of GDP, annual data



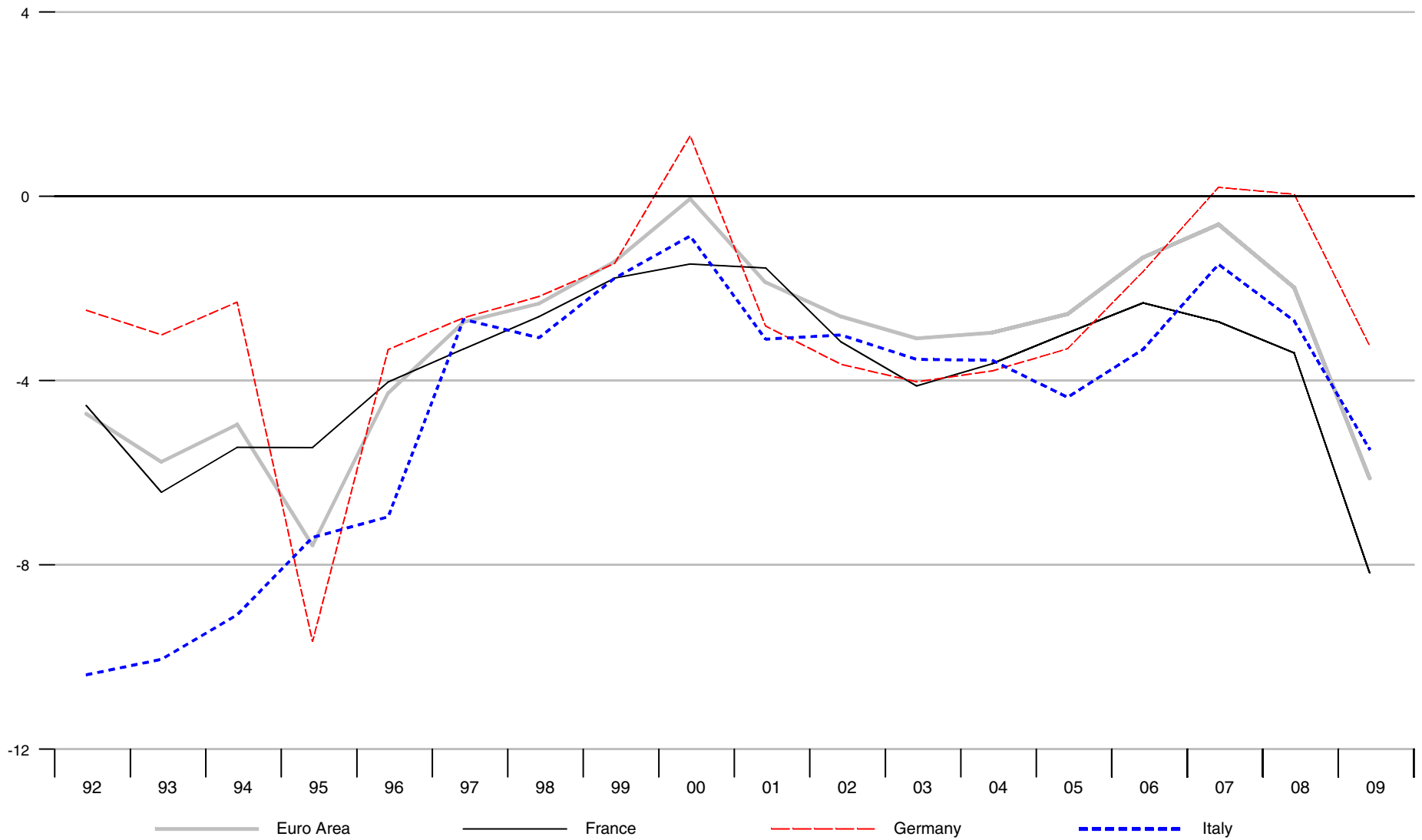
### Government Budget Balance for Canada, Japan, United Kingdom, and United States

Percent of GDP, annual data



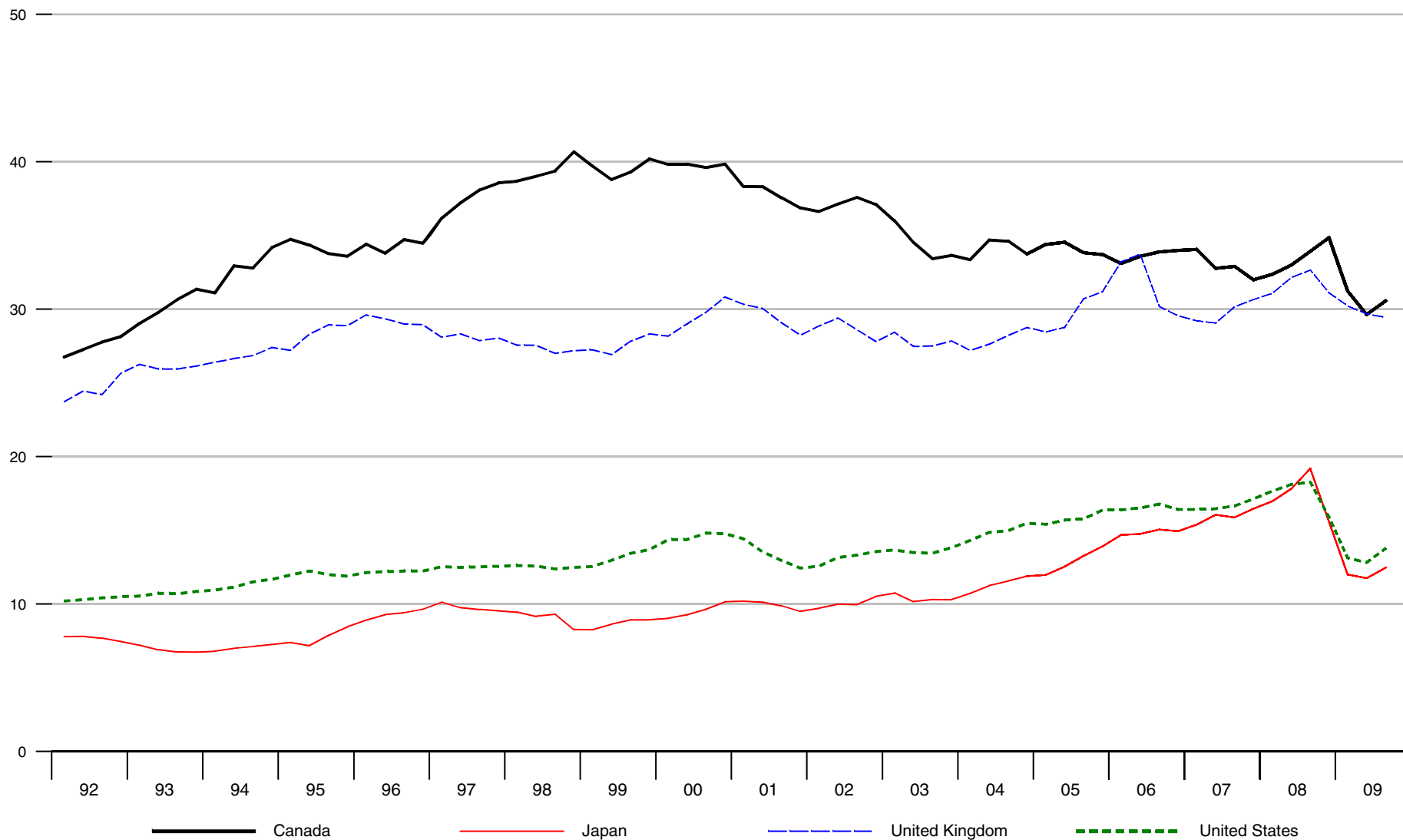
### Government Budget Balance for Euro Area, France, Germany, and Italy

Percent of GDP, annual data



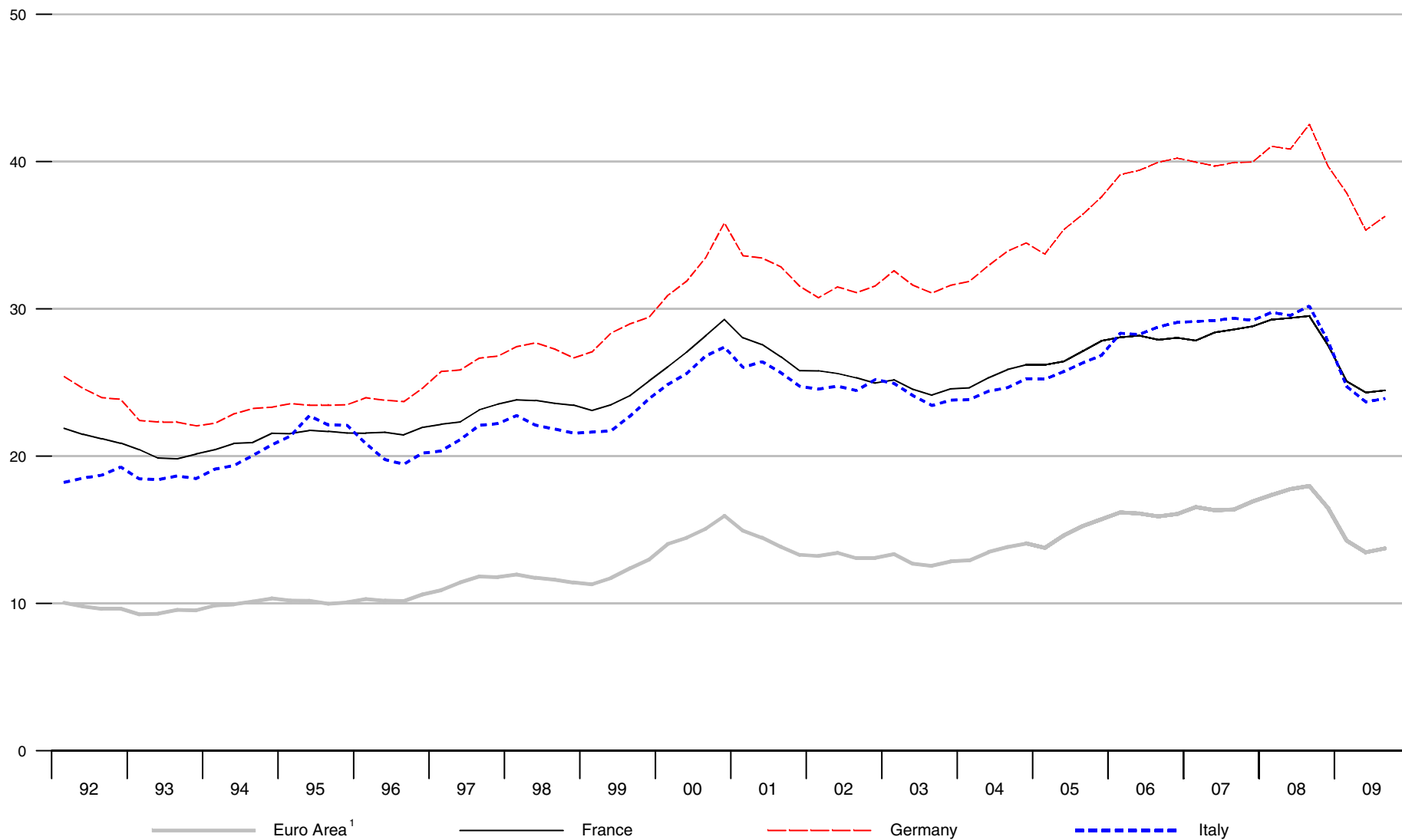
International Trade - Imports of Goods and Services for Canada, Japan, United Kingdom, and United States

Percent of GDP



### International Trade - Imports of Goods and Services for Euro Area, France, Germany, and Italy

Percent of GDP

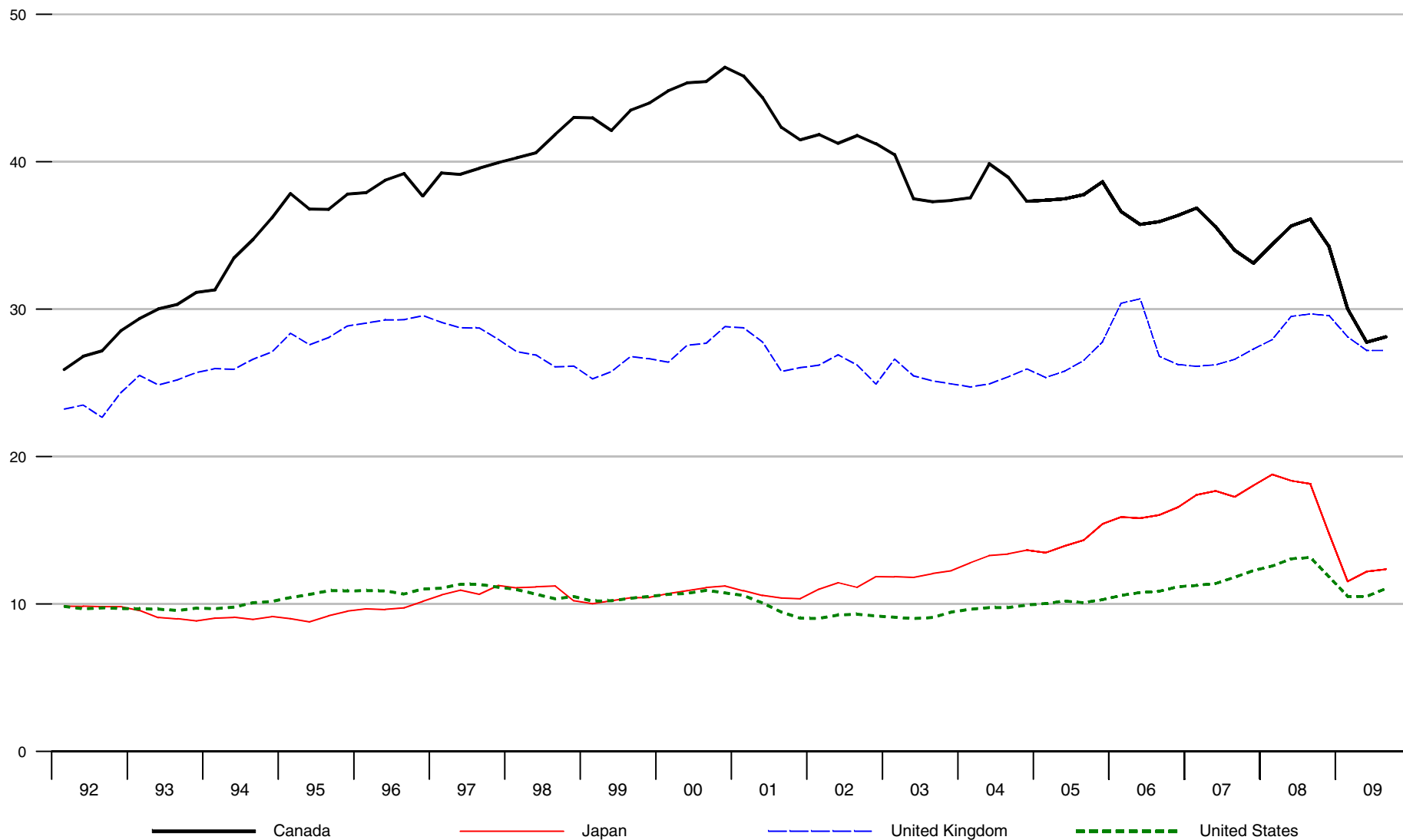


<sup>1</sup> Imports of Goods Only



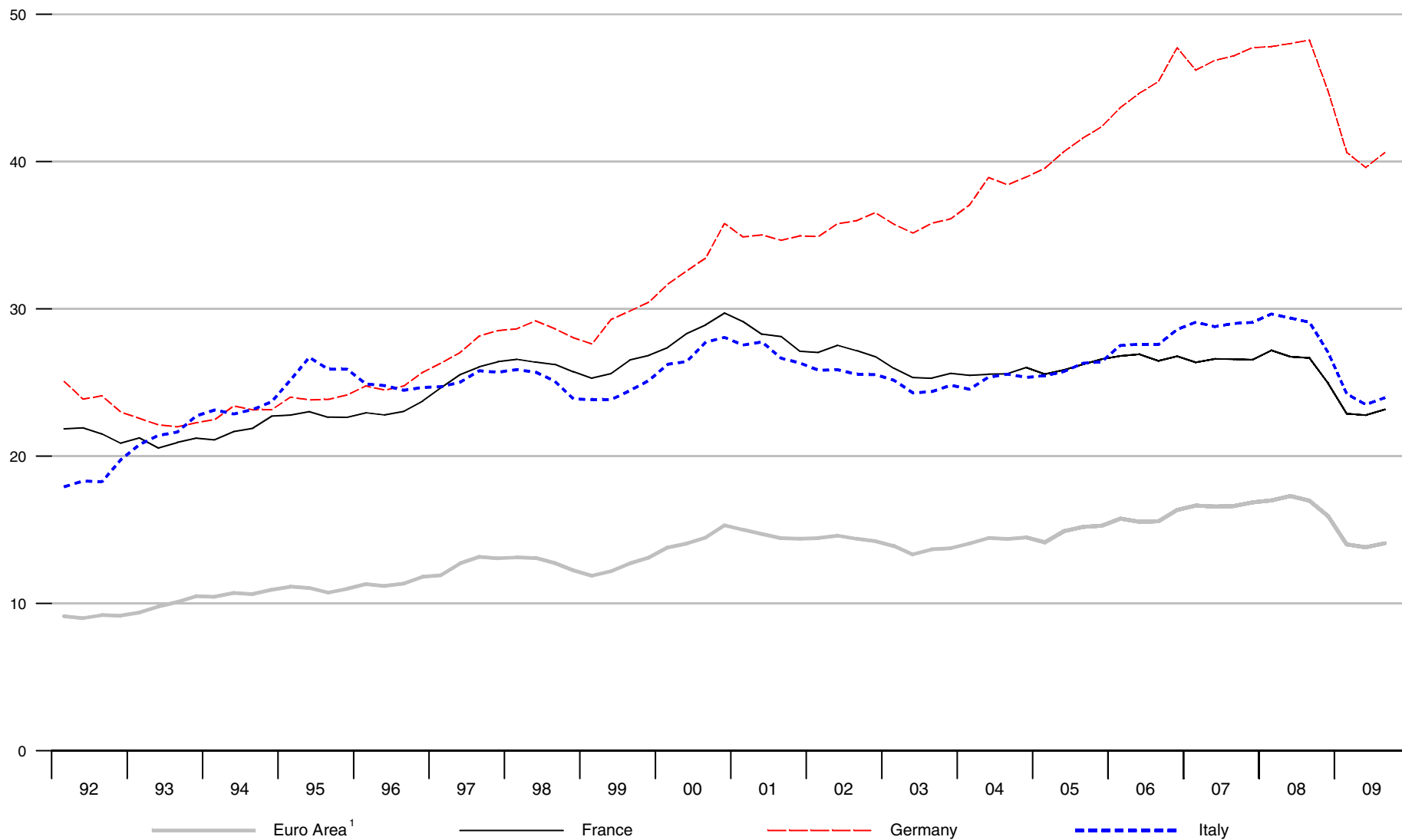
International Trade - Exports of Goods and Services for Canada, Japan, United Kingdom, and United States

Percent of GDP



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

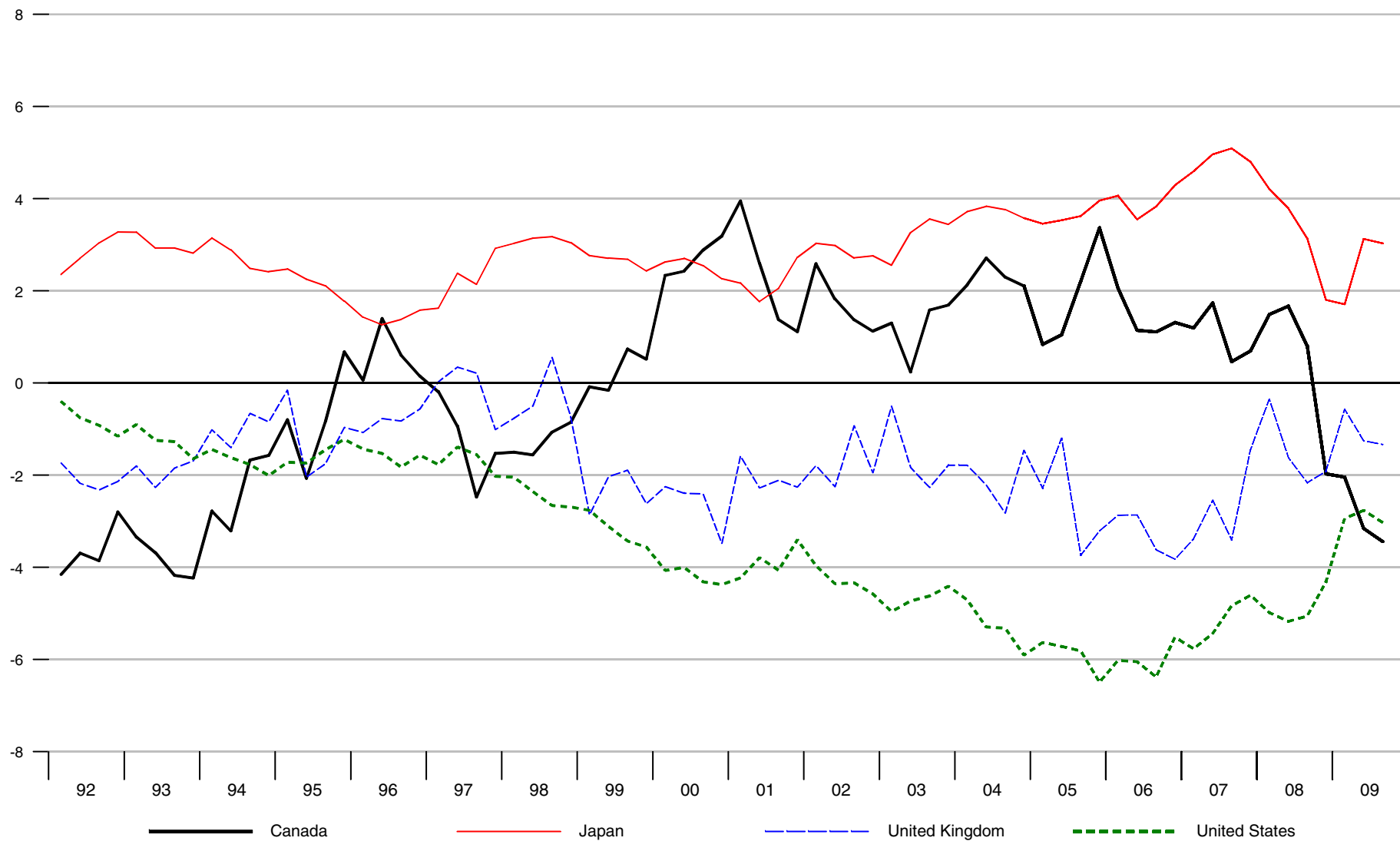
Percent of GDP



<sup>1</sup> Exports of Goods Only

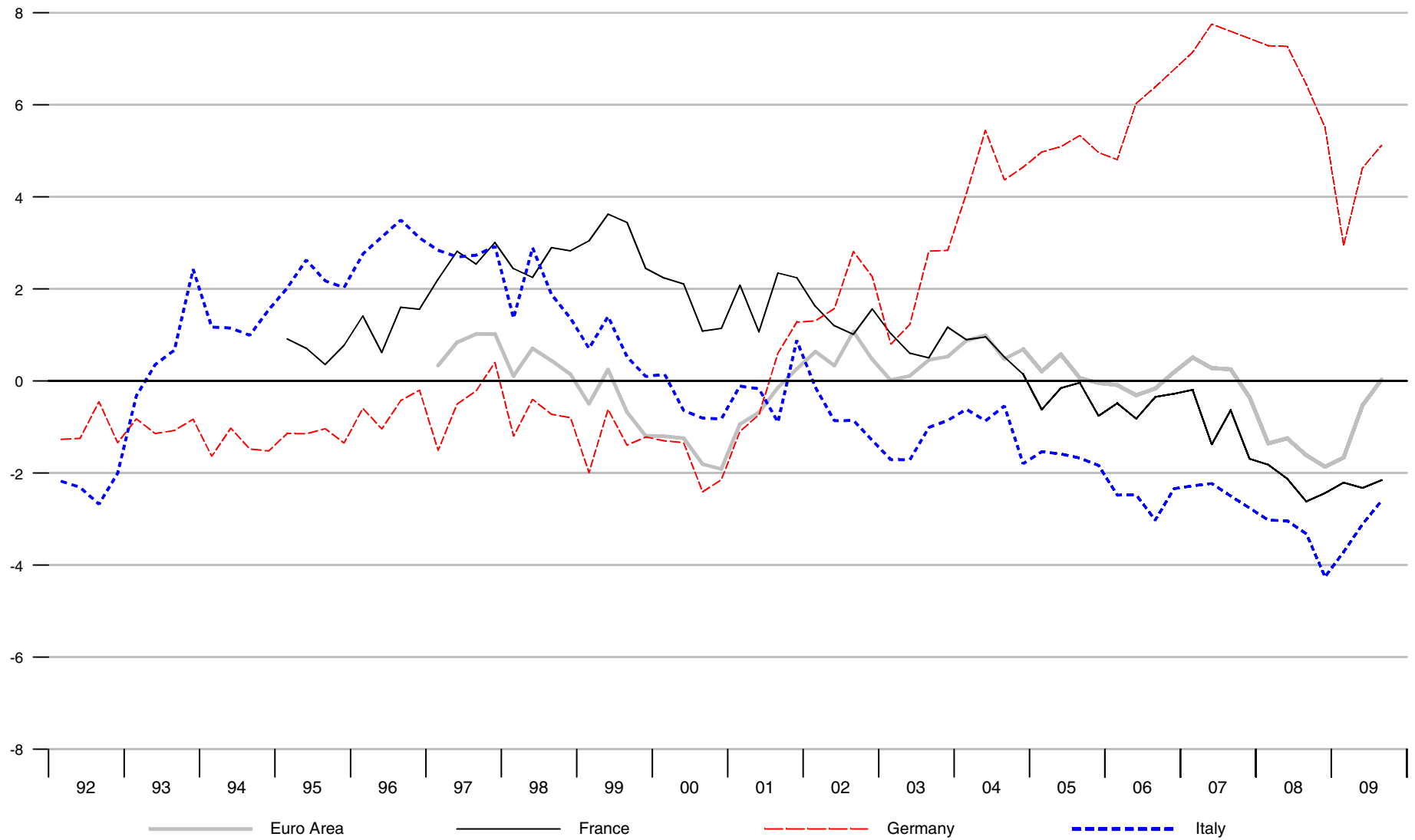
### Current Account Balance for Canada, Japan, United Kingdom, and United States

Percent of GDP



### Current Account Balance for Euro Area, France, Germany, and Italy

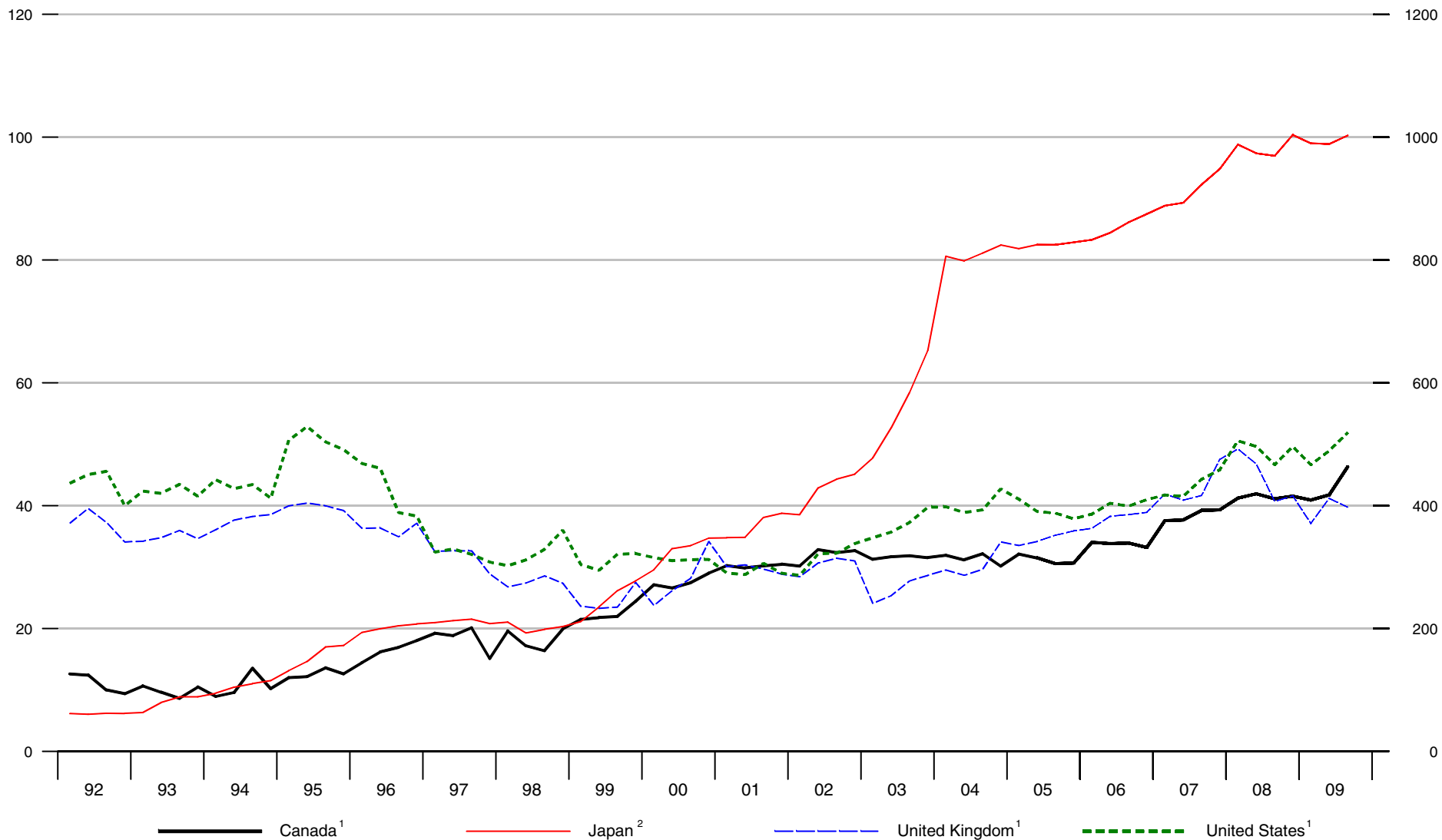
Percent of GDP



### Foreign Exchange Reserves Canada, Japan, United Kingdom, and United States

Billions of US\$

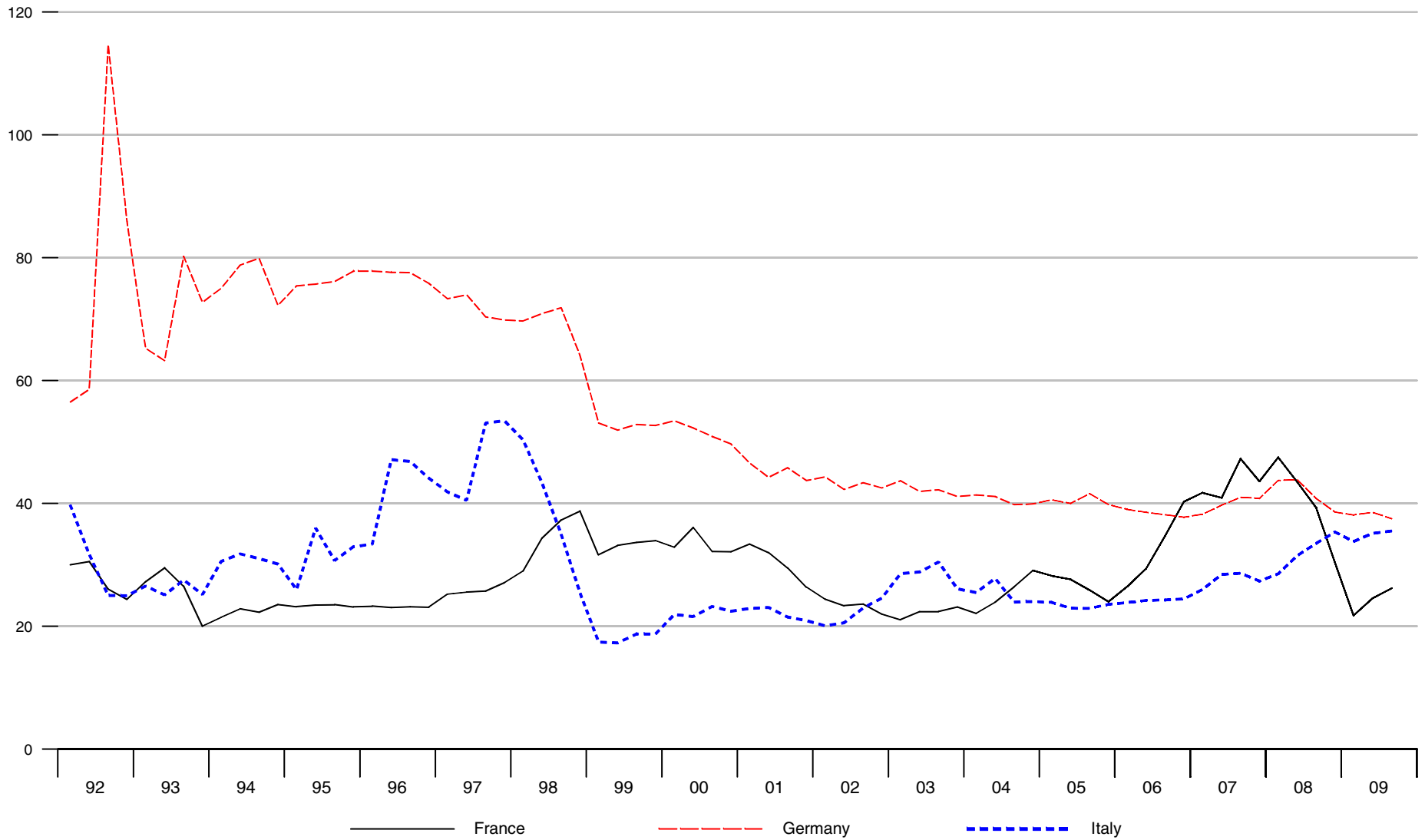
Billions of US\$



<sup>1</sup> Left Scale, <sup>2</sup> Right Scale

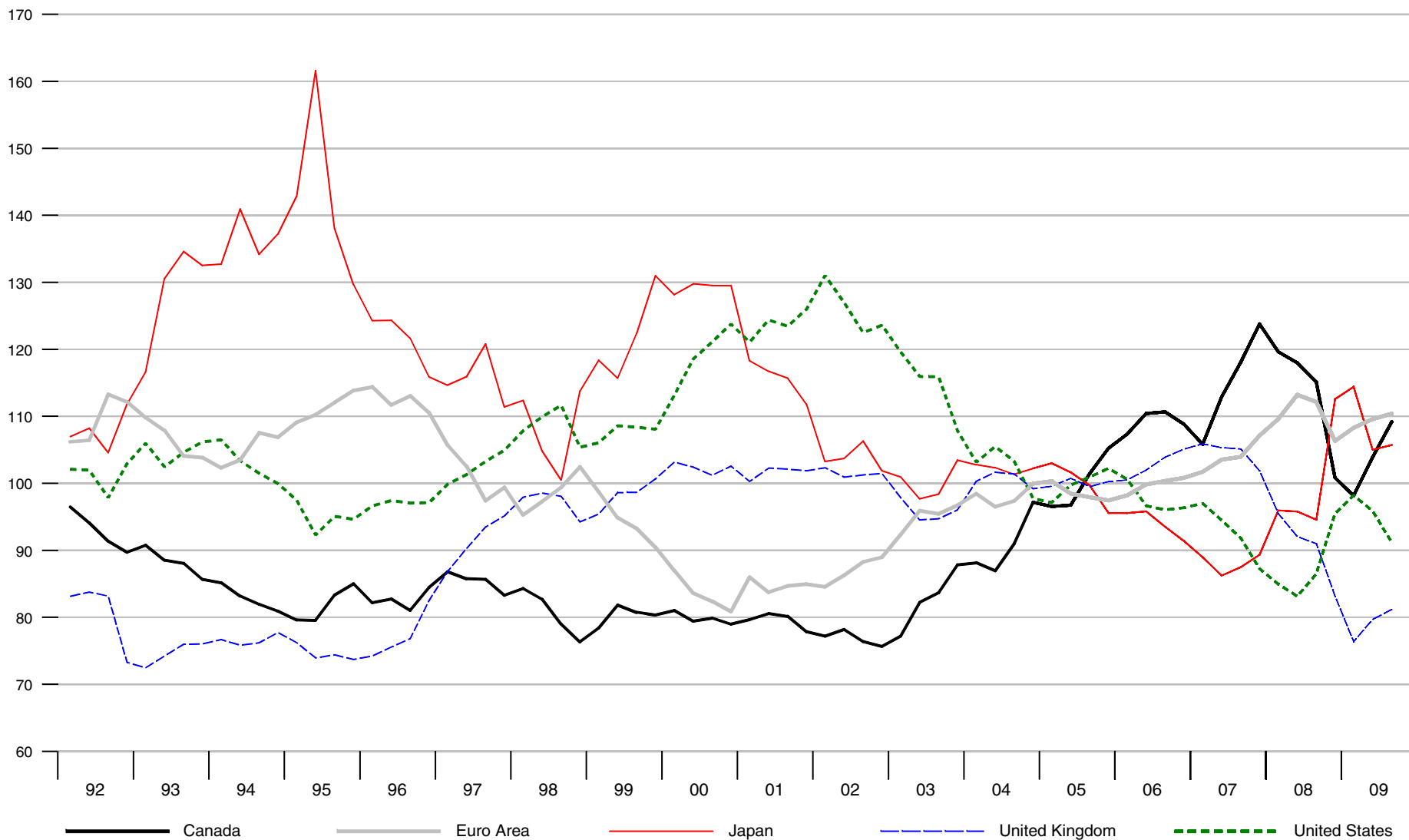
### Foreign Exchange Reserves for France, Germany, and Italy

Billions of US\$

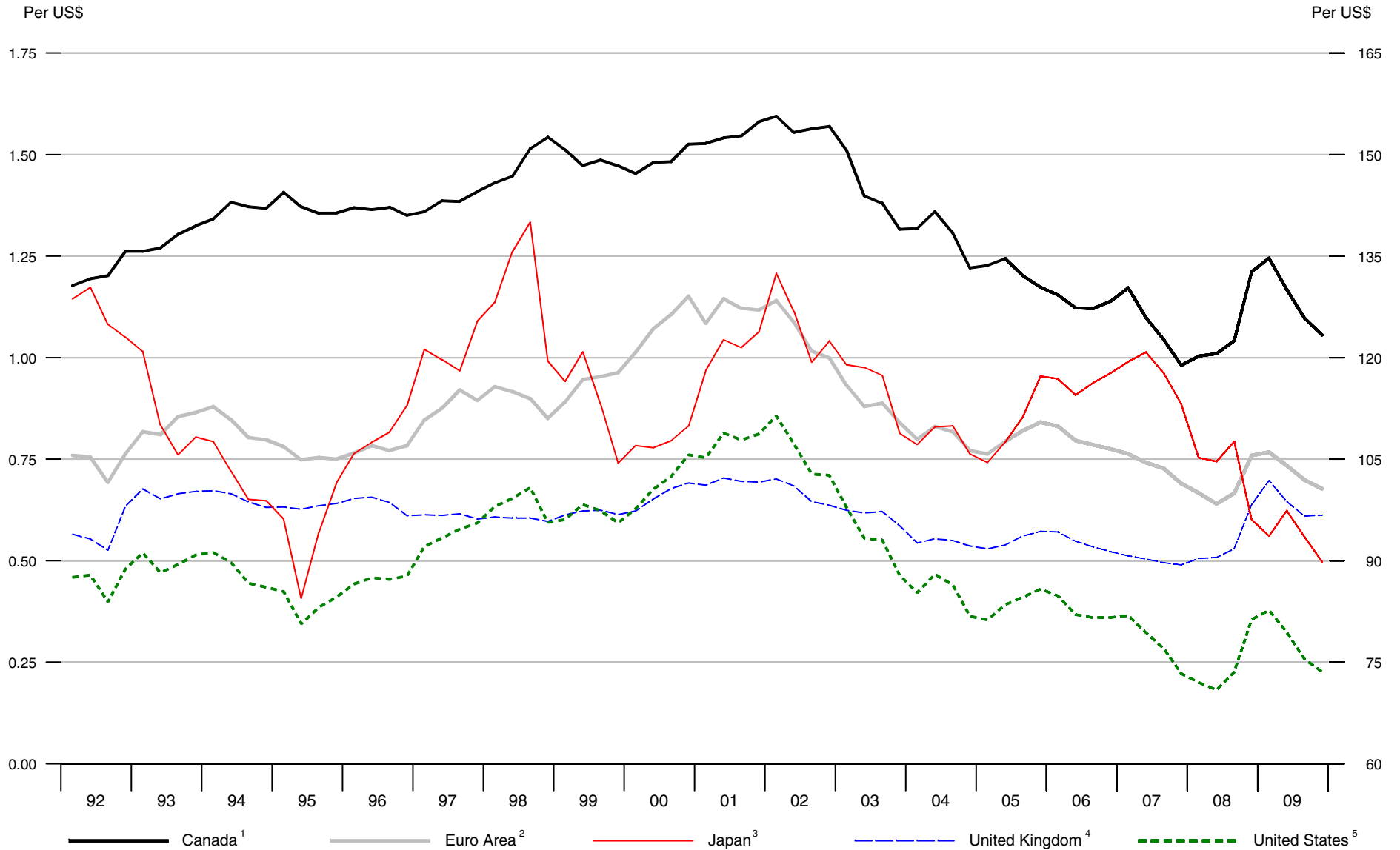


### Real Effective Exchange Rate for Canada, Euro Area, Japan, United Kingdom, and United States

Index 2005 = 100



Exchange Rates for Canada, Euro Area, Japan, United Kingdom, and United States

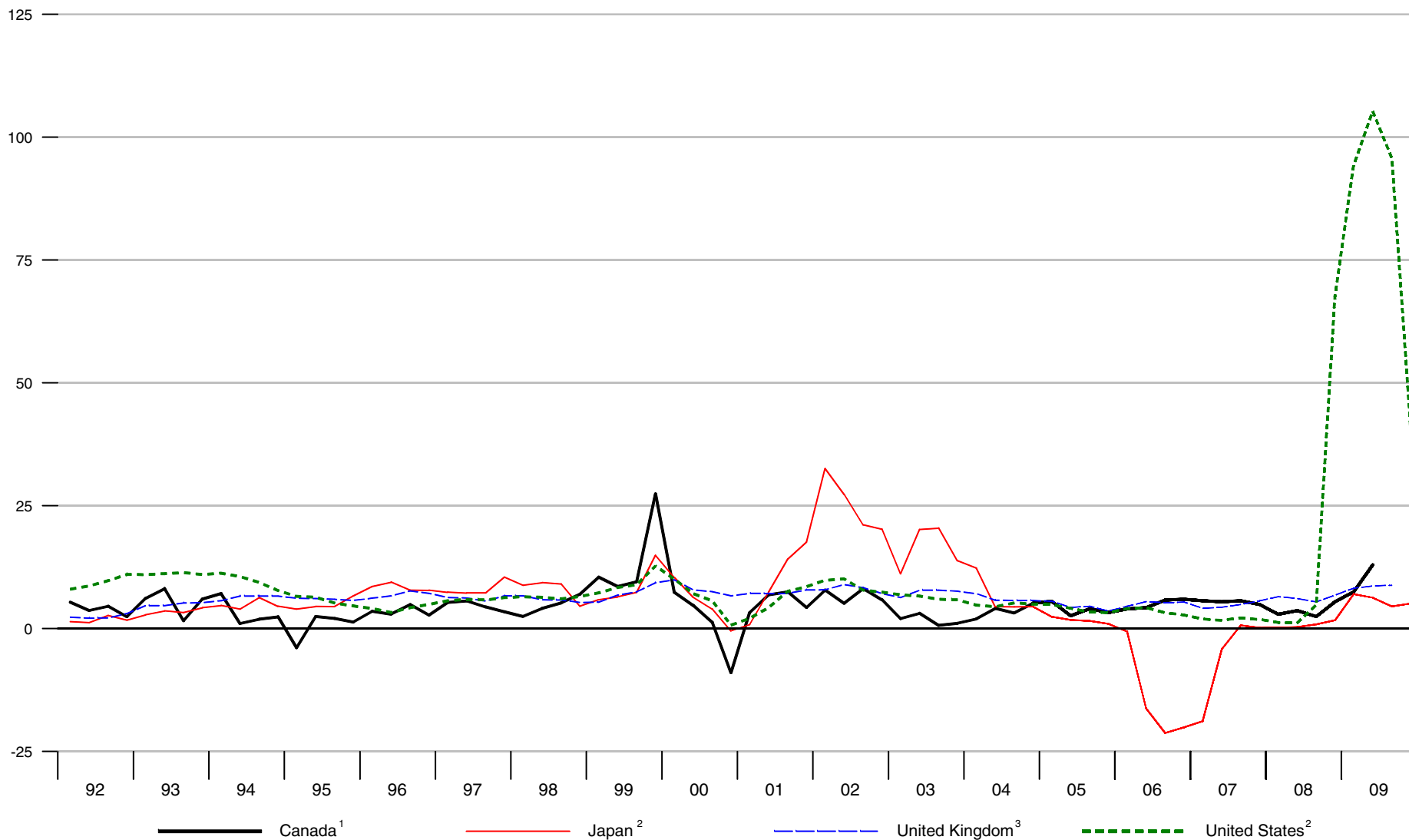


<sup>1</sup> Canadian dollar, Left Scale, <sup>2</sup> euro, Left Scale, <sup>3</sup> Japanese yen, Right Scale, <sup>4</sup> UK pound, Left Scale, <sup>5</sup> US TWEX, March 1973=100, Right Scale



### Reserve Money for Canada, Japan, United Kingdom, and United States

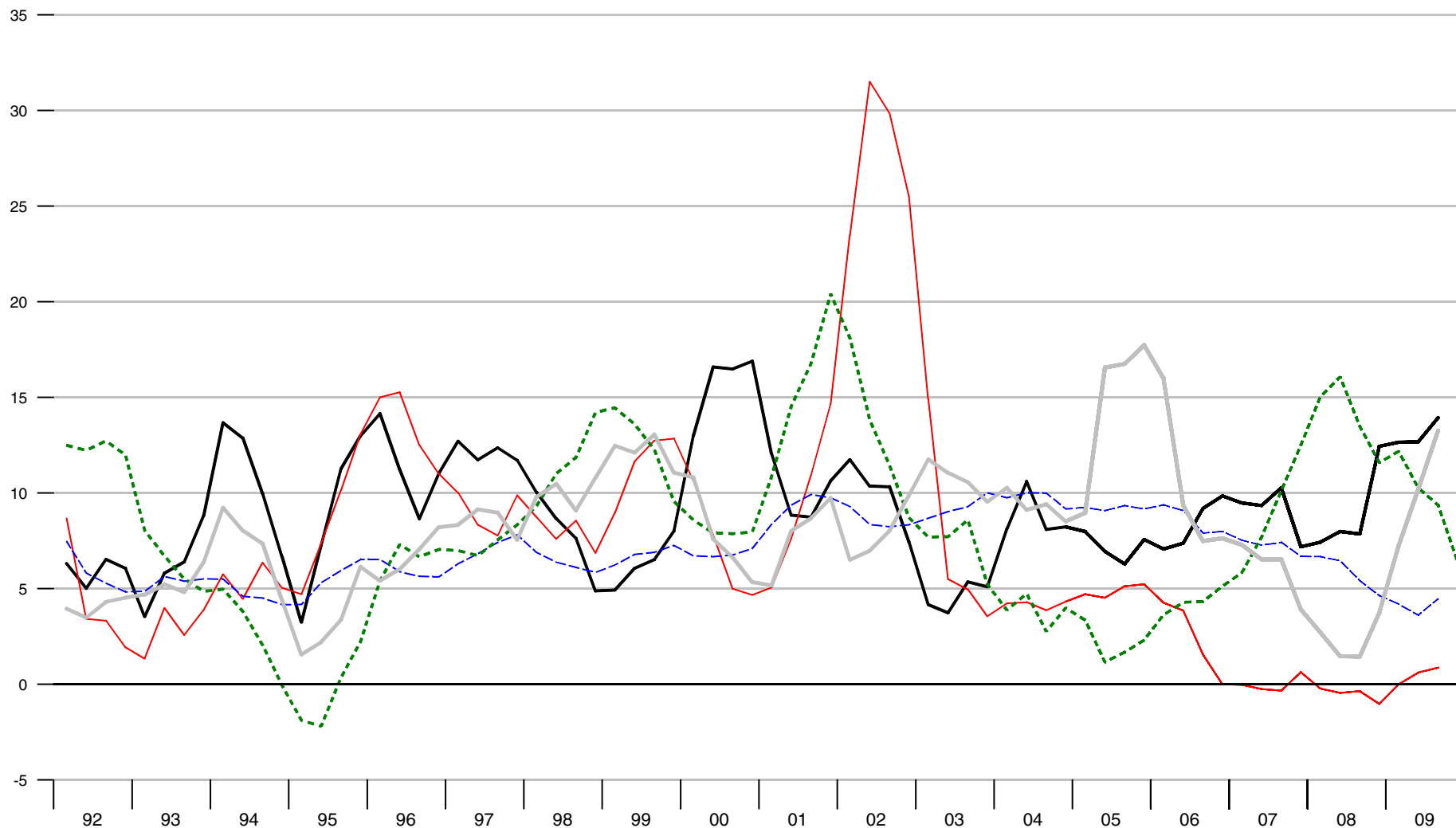
Percent change from year ago



<sup>1</sup> Reserve Money, <sup>2</sup> Adjusted Monetary Base, <sup>3</sup> Coins and Notes in Circulation

### Narrow Money for Canada, Euro Area, Japan, United Kingdom, and United States

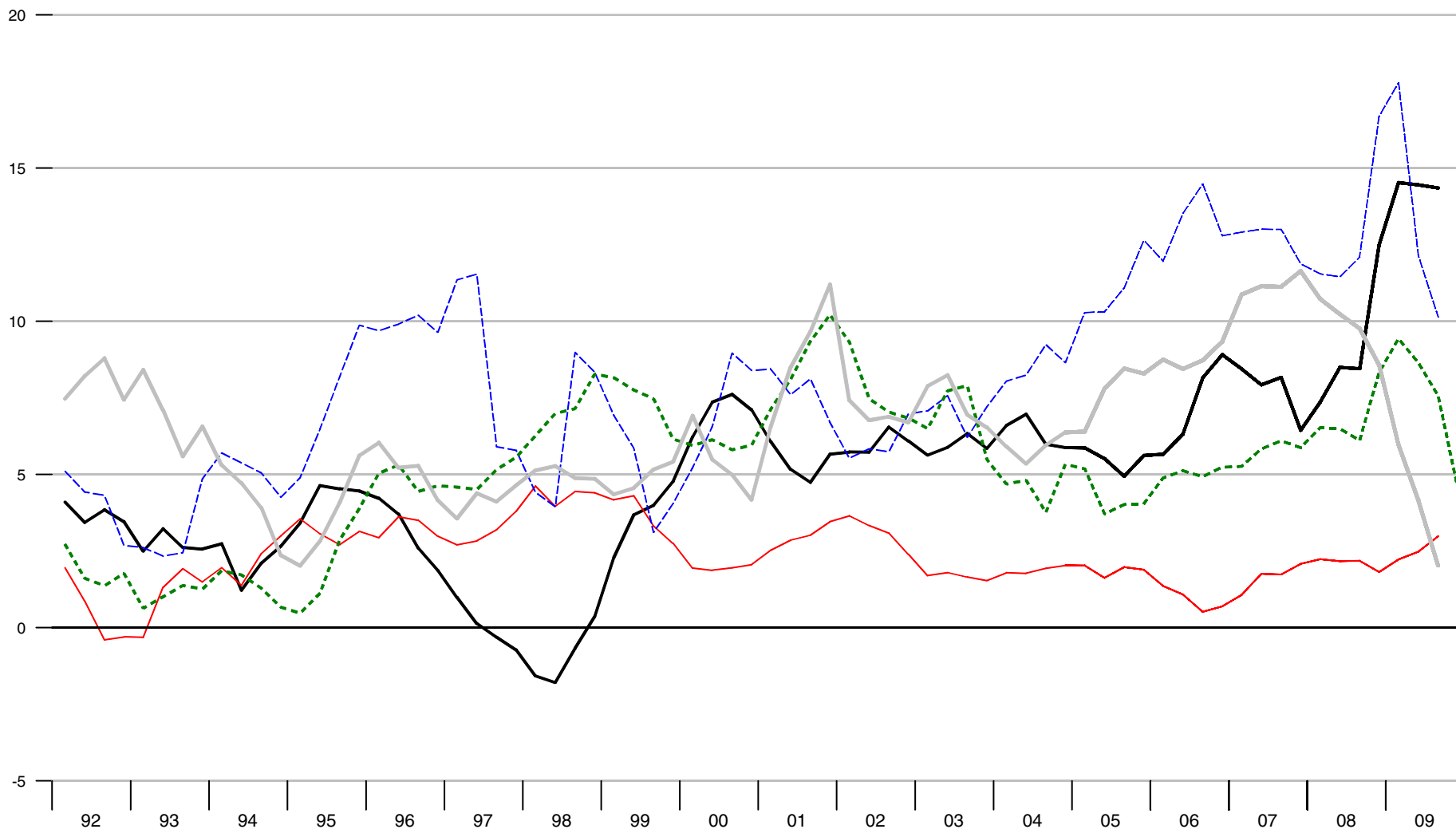
Percent change from year ago



<sup>1</sup> M1B, <sup>2</sup> M1, <sup>3</sup> M2, <sup>4</sup> MZM

### Broad Money for Canada, Euro Area, Japan, United Kingdom, and United States

Percent change from year ago

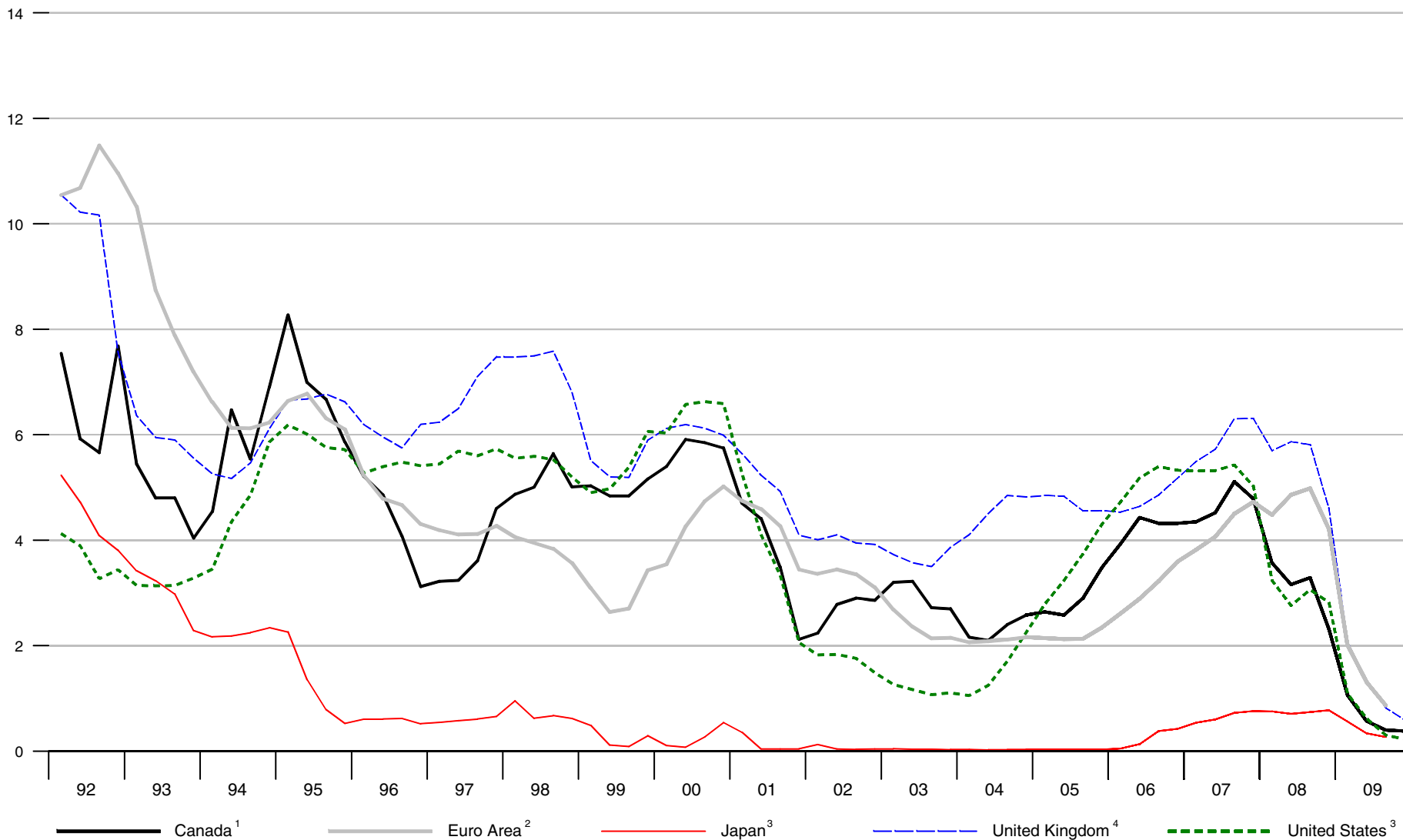


Canada<sup>1</sup>
 Euro Area<sup>2</sup>
 Japan<sup>1</sup>
 United Kingdom<sup>3</sup>
 United States<sup>1</sup>

<sup>1</sup> M2, <sup>2</sup> M3, <sup>3</sup> M4

### Short-Term Interest Rates for Canada, Euro Area, Japan, United Kingdom, and United States

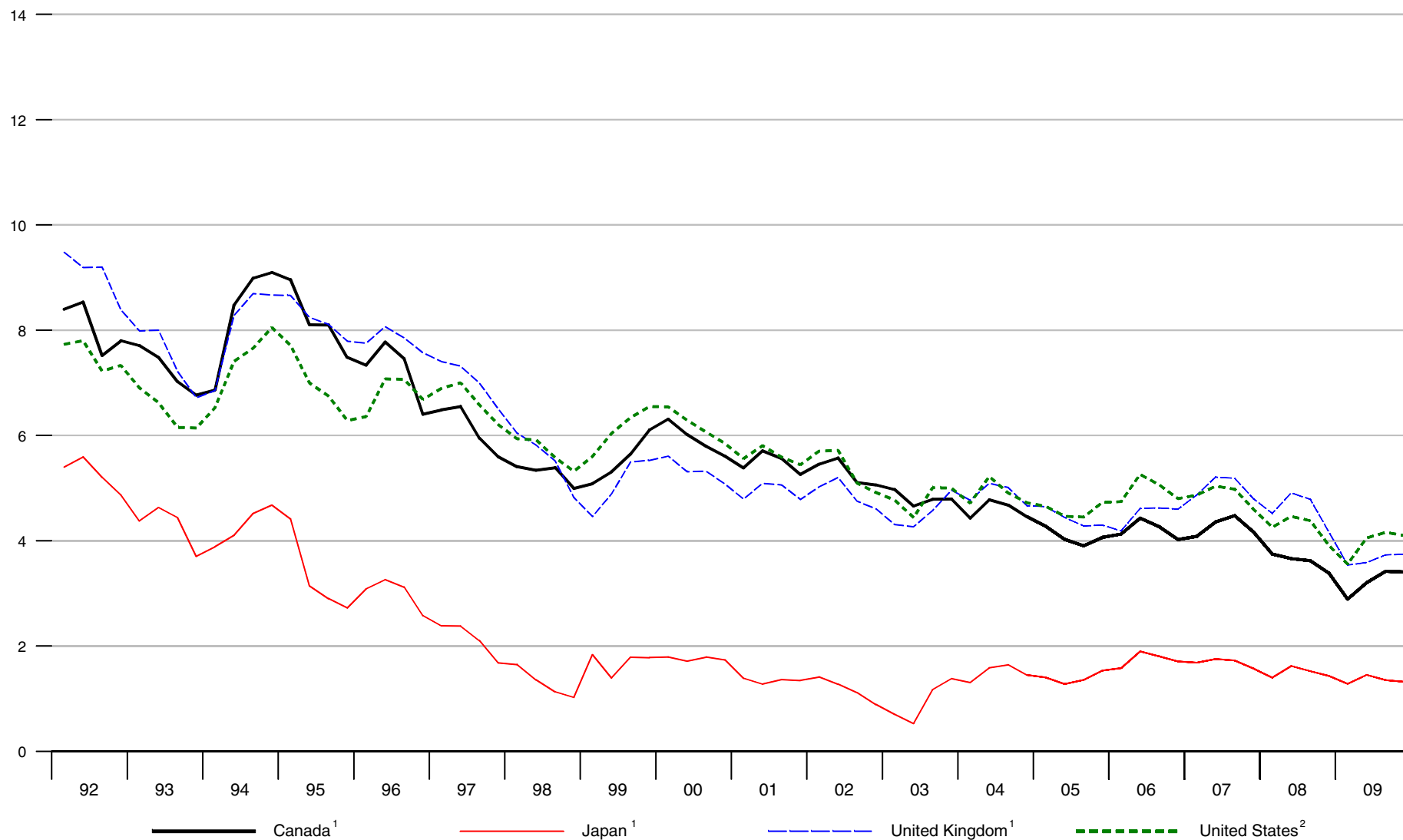
Percent



<sup>1</sup> 90-Day Prime Corporate Paper, <sup>2</sup> 90-Day Deposits, <sup>3</sup> 3-Month CDs, <sup>4</sup> 3-Month Interbank Loans

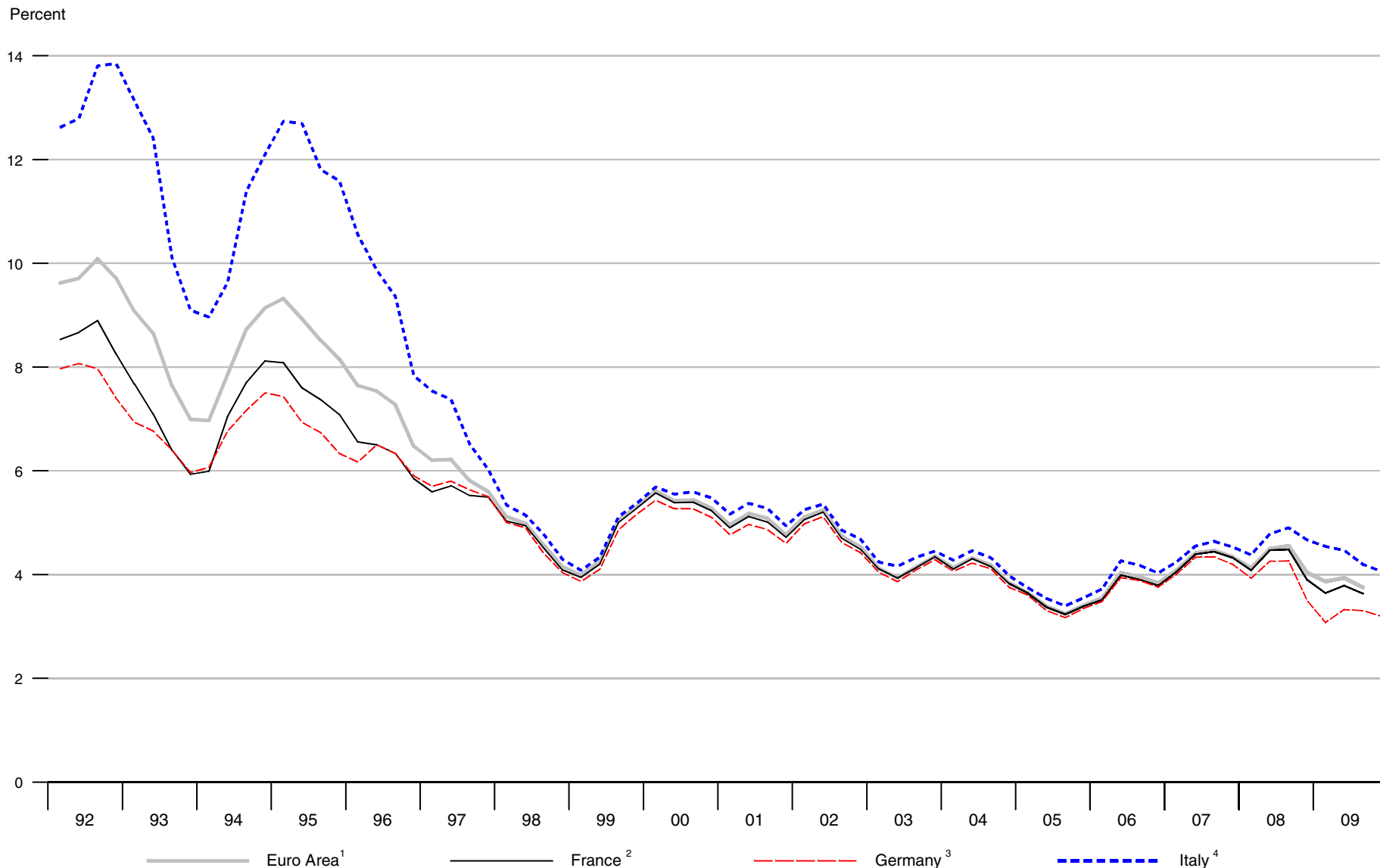
### Long-Term Interest Rates for Canada, Japan, United Kingdom, and United States

Percent



<sup>1</sup>10-Year Government Bonds, <sup>2</sup>Composite of Long-Term Government Bonds

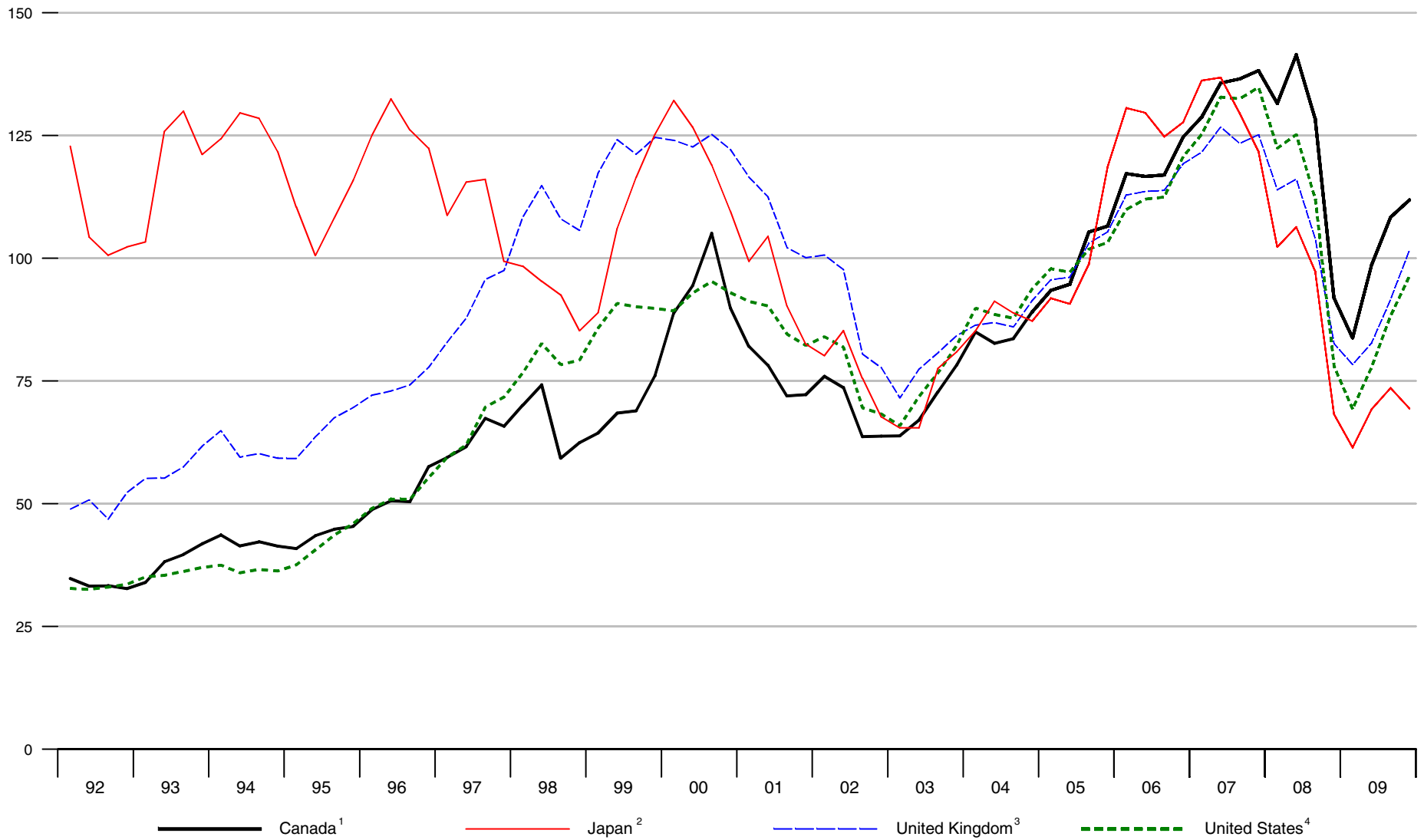
### Long-Term Interest Rates for Euro Area, France, Germany, and Italy



<sup>1</sup> Weighted Average of 10-Year Government Bonds, <sup>2</sup> 10-Year Benchmark Bonds, <sup>3</sup> 7- to 15-Year Public Sector Bonds, <sup>4</sup> 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

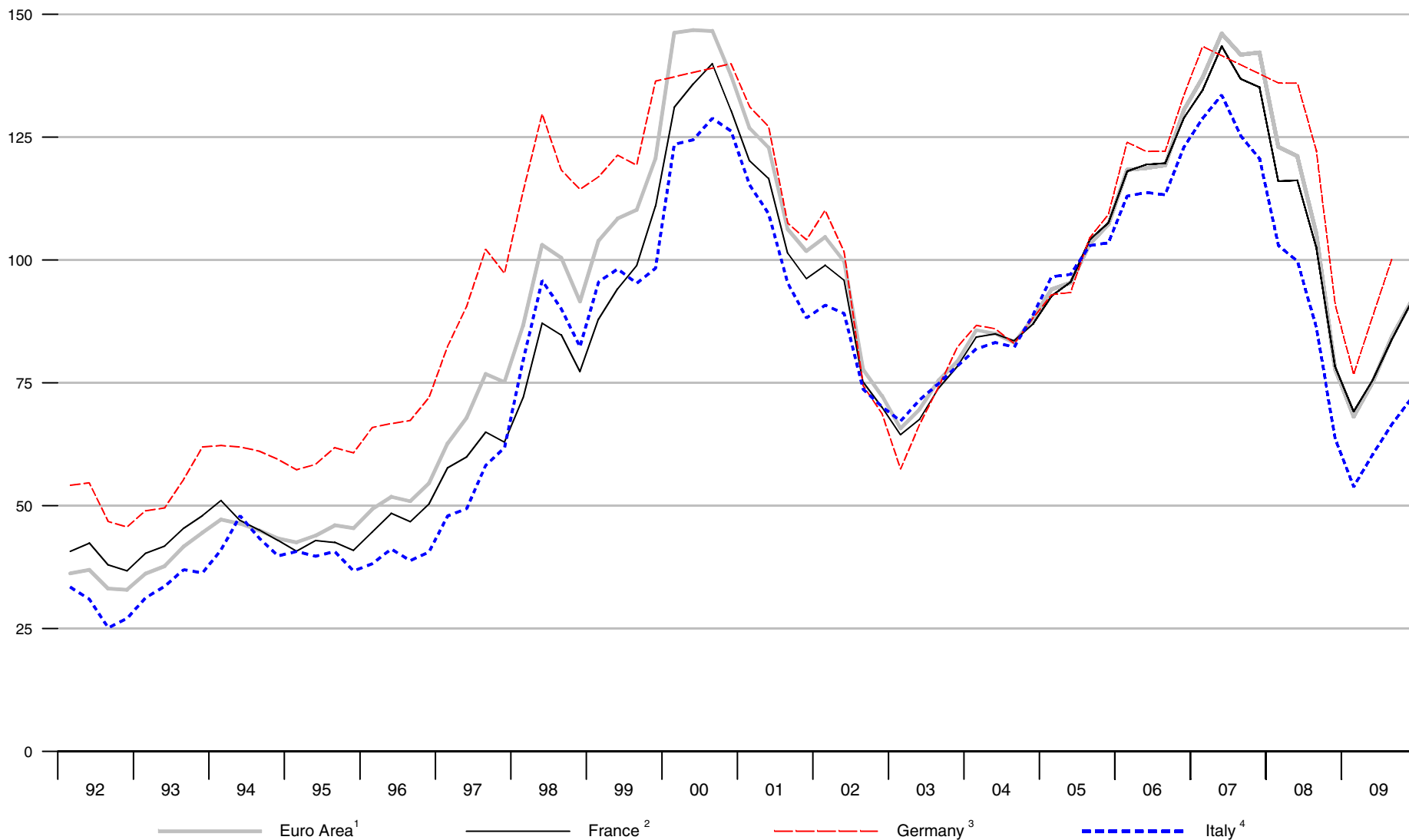
2005 = 100



<sup>1</sup>Toronto Stock Exchange <sup>2</sup>Tokyo Stock Exchange <sup>3</sup>Financial Times Stock Exchange <sup>4</sup>New York Stock Exchange

### Stock Exchange Indices for Euro Area, France, Germany, and Italy

2005 = 100



<sup>1</sup> Dow Jones EURO STOXX<sup>SM</sup>, <sup>2</sup> SBF 250, <sup>3</sup> CDAX, <sup>4</sup> Milan Stock Exchange



## Notes

**Euro-Area Data:** Euro-area countries are Austria, Belgium, Cyprus, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Malta, the Netherlands, Portugal, Slovenia, Slovakia, and Spain. Data series are break adjusted and include all euro area countries for the full sample, with these exceptions: Series for interest rates are not break adjusted.

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 1992: capacity utilization.  
 First quarter 1993: stock exchange index.  
 Third quarter 1993: employment.  
 First quarter 1995: hourly earnings.

**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; all 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.

**Real 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.

German real earnings data prior to 2007 are not strictly comparable with the new figures: Before 2007, gross hourly earnings covered full-time wage earners only. Since the first quarter of 2007, the data refer to the index of gross hourly earnings (excluding extra payments) of full-time wage earners and salaried employees.

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 2005. 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. **Gross 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. **Net Government Debt** measures the gross financial liabilities of the general government sector less the financial assets of the general government sector.

**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.

### Notes and Coins in Circulation

United Kingdom: After reforming the rules governing bank reserves, the Bank of England discontinued its M0 series in May 2006 because the data would not be comparable to previous data. *JET* now presents a related series, "Notes and Coins in Circulation," in place of M0. The Bank of England directs interested parties to "Publication of narrow money data: the implication of money market reform" in its Autumn 2005 *Quarterly Bulletin* (<http://www.bankofengland.co.uk/publications/quarterlybulletin/qb050304.pdf>).

### M1

Japan: cash, currency in circulation, and deposit money.  
 Euro area: currency in circulation and overnight deposits.

### M1B

Canada: currency outside banks, chartered bank checkable deposits, less inter-bank checkable deposits.

### M2M

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: currency outside banks, chartered bank demand and notice deposits, chartered bank personal term deposits, adjustments to M2 (continuity adjustments and inter-bank demand and notice 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)  
Bureau of Labor Statistics, U.S. Department of Labor (BLS)  
International Monetary Fund, *International Financial Statistics* (IMF)  
Organization for Economic Cooperation and Development,  
*Economic Outlook* (OECD1)  
*Main Economic Indicators* (OECD2)  
*National Accounts Quarterly* (OECD3)

#### Canada

Bank of Canada: M1B and M2.  
BOG: exchange rate.  
IMF: foreign exchange reserves, merchandise and service trade, real effective exchange rate, and reserve money.  
OECD1: gross government debt, net 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: gross government debt, net government debt, and budget balance.  
OECD2: hourly earnings, industrial production, M1, M3, stock exchange index, and unemployment.

#### France

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.  
Institut National de la Statistique et des Etudes Economiques: employment.  
OECD1: gross government debt, net government debt, and budget balance.  
OECD2: current account balance, GDP, hourly earnings, industrial production, retail sales, 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: gross government debt, net 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: gross government debt, net government debt, and budget balance.  
OECD2: current account balance, GDP, hourly earnings, industrial production, long-term interest rates, retail sales, 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: gross government debt, net 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.

#### United Kingdom

Bank of England: M2.  
BOG: exchange rate.  
IMF: foreign exchange reserves, merchandise and service trade, and real effective exchange rate.  
OECD1: gross government debt, net government debt, and budget balance.  
OECD2: capacity utilization, consumer price index, current account balance, GDP, industrial production, interest rates, M4, producer price index, retail sales, stock exchange index, unemployment, and weekly earnings.  
U.K. Office for National Statistics: employment and Notes and Coins in Circulation.

#### 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: gross government debt, net government debt, and budget balance.  
OECD2: hourly earnings, stock exchange index, and unemployment.