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About the Office for National Statistics

The Office for National Statistics (ONS) is the government agency responsible for compiling, analysing and disseminating many of the United Kingdom's economic, social and demographic statistics, including the retail prices index, trade figures and labour market data, as well as the periodic census of the population and health statistics. The Director of ONS is also the National Statistician and the Registrar General for England and Wales, and the agency administers the registration of births, marriages and deaths there.

A National Statistics Publication

National Statistics are produced to high professional standards set out in the National Statistics Code of Practice. They undergo regular quality assurance reviews to ensure that they meet customer needs. They are produced free from any political influence.



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No. 602, January 2004

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in brief

At a glance – economic summaries recently released on the National Statistics website.

GDP growth

Output of the production industries decreased by 0.1 per cent driven by a fall in oil production in the North Sea. This fall was partially offset by a rise in energy supply driven by increased gas and water supply.

Manufacturing output rose by 0.1 per cent in 2003 Q3, as increases in the manufacture of textiles, leather and clothing were largely offset by declines in the manufacture of transport equipment and coke, refined petroleum and nuclear fuels.

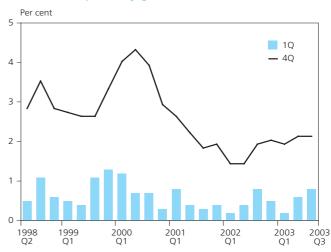
Services rose by 0.9 per cent over the quarter, compared to 0.2 per cent in 2003 Q2, with growth driven by business and financial services. Within this sector, growth was strongest in real estate, renting and business activities, which rose by 2.1 per cent.

The distribution, hotels and catering sector rose by 0.9 per cent with increases in motor trades and retail activities. The transport and communications sector rose by 0.4 per cent with growth in air and land transport and transport support. Elsewhere, government and other services rose by 0.7 per cent over the quarter as health and social work rose by 1.4 per cent.

Construction output rose by 2.0 per cent and is now 6.7 per cent above the level seen in 2002 Q3.

Household expenditure rose by 0.9 per cent with continuing strong growth in recreation and culture and restaurants and hotels.

Real GDP quarterly growth



The level of government expenditure increased by 0.1 per cent in the latest quarter. Business investment declined by 1.2 per cent over the quarter as investment in plant and machinery declined. The trade balance worsened slightly as imports rose by 0.5 per cent and exports rose by 0.4 per cent.

On the income side, compensation of employees rose by 1.3 per cent driven by an increase in average earnings, with little change in employment. Corporate incomes rose by 1.5 per cent in 2003 Q3

Released: 23 December 2003

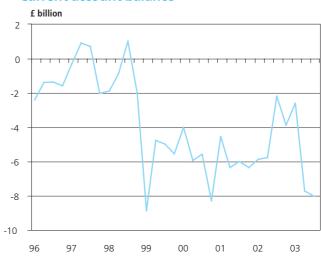
Balance of payments in quarter 3

The current account deficit increased to £8.1 billion (equivalent to 2.9 per cent of GDP) in the third quarter.

This compares with a revised deficit of £7.8 billion in the second quarter and is the highest deficit since the fourth quarter of 2000. The increased deficit was due to a fall in the surplus on investment income and a widening goods deficit.

The surplus on direct investment continues to fall, largely because foreign-owned companies in the UK are earning higher profits in 2003 than they reported in 2002. In the latest quarter, earnings of foreign-owned non-financial corporations increased to £4.9 billion - their highest level since the first quarter of 2001.

Current account balance



Released: 23 December 2003

Revisions

Minor revisions have been introduced from the first quarter of 1996 to ensure current transfers data are fully consistent with the data released in the 2003 edition of the ONS *Blue Book*.

Figures have been revised more substantially from the first quarter of 1999 as a result of corrected contributor information being submitted to the Bank of England. These increase the current account deficit, by £3.5 billion in 1999, £4.6 billion in 2000 and £5.5 billion in 2001. They would also increase the deficit in 2002, but are offset by annual survey results for direct investment in particular.

The current account deficit in the second quarter has been revised down by £0.8 billion since first published in September, largely due to late and corrected returns from the Foreign Direct Investment inquiries and later information on current transfers.

Released: 23 December 2003

Productivity in quarter 3

UK productivity growth in the third quarter was slightly down when compared with a year ago but was up on a quarterly basis.

In the third quarter of 2003, annual productivity growth for the whole economy was 1.5 per cent, down from growth of 1.6 per cent achieved in the previous quarter.

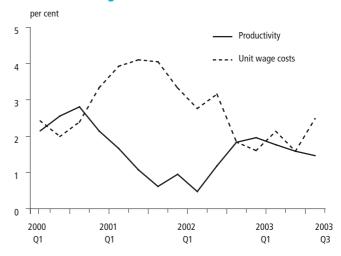
This small fall in annual productivity is explained by minor changes in the growth rate of both output and employment. Annual growth in output was 1.6 per cent, down on growth of 1.7 per cent in the previous quarter, while job growth edged up slightly.

Compared with the previous quarter, productivity growth was 0.6 per cent, up from 0.3 per cent in the previous quarter. This is explained by a pick up in output when compared with the second quarter.

Annual manufacturing productivity growth was 4.9 per cent, down from 6.0 per cent in the previous quarter. Care has to be taken when comparing figures with the third quarter of 2002. It is likely that activity at the time was impacted by a rebound following the Jubilee celebrations. Manufacturing output in the third quarter was down by 0.2 per cent when compared with a year ago, partly as a result of the very rapid rise in activity that took place in the third quarter of 2002.

Compared with the previous quarter, manufacturing productivity grew by 1.3 per cent in the third quarter of 2003, down from growth of 2.3 per cent in the previous quarter. This was due to a weaker quarterly growth rate for manufacturing output.

Whole economy productivity and unit wage costs annual growth



Unit wage costs for the whole economy grew by 2.5 per cent in the third quarter of 2003 compared to a year ago, up from 1.6 per cent in the previous quarter. This rise was primarily due to a pick up in wages and salaries growth.

Overall manufacturing unit wage costs showed an annual decline of 1.6 per cent, up from a decline of 2.9 per cent in the previous quarter.

Released: 23 December 2003

Business investment in quarter 3

The revised estimate of business investment for the third quarter of 2003 is 1.0 per cent lower than the same period of last year and 1.2 per cent lower than the previous quarter. This follows growth of 1.7 per cent in the previous quarter.

The investment profile for the period is similar to that published in the provisional results. The quarterly fall is due to reduced capital spending from manufacturing, other production and distribution service industries. These falls were slightly offset by increased investment from the other service and construction industries.

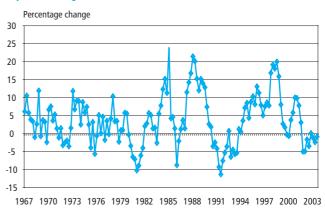
Private sector manufacturing investment is down 7.8 per cent on the quarter compared with a fall of 5.8 per cent published provisionally. By industry, the quarterly falls were most marked in the engineering and vehicles, food, drink and tobacco and other manufacturing industries. By asset there was a fall in investment within manufacturing in new building work, vehicles and other capital equipment.

Within other production there were quarterly falls from the electricity, gas and water, the agriculture and forestry, and the mining and quarrying industries.

Total manufacturing investment fell by 15.0 per cent, construction and other production fell by 0.5 per cent and services investment rose by 0.9 per cent compared with the same quarter a year ago.

Released: 22 December 2003

Total business investment percentage change, quarter on corresponding quarter of previous year



Summaries on other economic topics as well as social subjects can be found at www.statistics.gov.uk/glance

Economic update January 2004

Rhys Herbert

Office for National Statistics

Overview

Third quarter GDP growth was revised to 0.8 per cent, slightly above the previous estimate.

Service sector output growth has picked up when compared with quarter two, while construction and manufacturing have slowed.

Consumer spending in 2003 quarter three is 0.9 per cent, up marginally from quarter two.

Fixed investment spending fell in the third quarter led by another decline in new machinery and equipment.

Government spending is currently a positive contributor to economic growth but the public sector finances are falling further into deficit.

Export growth was stagnant in quarter three despite signs of stronger international demand

Labour market aggregates remain largely stable, and private sector wage pressures are minimal.

Producer prices have gone up slightly as the oil price has risen once again.

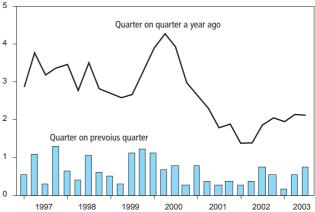
The CPI measure of consumer prices is below target and the inflation rate fell again in November.

GDP activity – overview

Third quarter GDP growth has been revised up for the second time to 0.8 per cent compared with a provisional estimate of 0.6 per cent. The annual rate of growth in the third quarter, was also revised upward to 2.1 per cent, the same as in the previous quarter, although it should remembered that both these annual rates have been distorted by the impact of last year's Jubilee celebrations (Figure 1). The upward revision was due to stronger service sector activity than was assumed in the original estimate and reflects the more complete information that is now available for the quarter. The initial estimate of quarterly GDP, undertaken only a few weeks after the end of the quarter to which it refers must by necessity be based on limited actual data with the gaps in knowledge fleshed out by estimates. As more information becomes available, the estimate is replaced by firmer information and as a result the preliminary growth figures often have to be revised. In the case of the third quarter number the impact on GDP from the upward revision to service sector output was partially offset by downward revisions to construction and industrial production.

Figure 1 **GDP**

Growth



5

The international background has become slightly more supportive of economic growth of late, although the UK's largest export market, the EU, remains the area with the weakest growth in economic activity. The US experienced very robust growth in the third quarter growing by over 2 per cent during the quarter. Japanese economic growth also appears to have picked up during the quarter, and the three biggest EMU economies France, Germany and Italy showed some improvement. However, for these three European countries this acceleration has so far only moved them from a slight decline to a small positive growth rate. Moreover the bulk of the improvement in EU activity appears to have been accounted for by stronger exports rather than by rising domestic demand so, seems unlikely to be very favourable for UK exports.

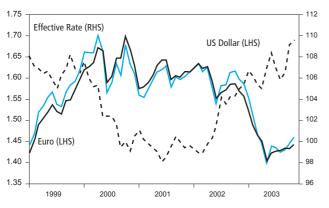
Financial Market activity

Last year saw some optimism return to the stock market. After three years of negative movement the FTSE All Share Index ended 2003 up some 16 per cent. However, the recent gains still leave the FTSE All Share down by about 12 per cent compared to its level at the start of 2002.

2003 also saw some significant moves in sterling, although the biggest international currency movement of late has been the slide of the US dollar. In the early part 2003 the pound fell against the euro and strengthened against the US dollar, and as a result the effective exchange rate fell by 7.2 per cent between December 2002 and May 2003. From this low the pound's effective rate rose slightly over the rest of the year as sterling's effective rate continued to be buffeted between a strong euro and a weak dollar. For 2004 as a whole the effective index ended the year down about 5.0 per cent, as a fall of over 8 per cent in the bilateral rate versus the euro was partially offset by a rise of 10 per cent against the dollar

Figure 2 **Exchange rates**

£ equals



Output

Gross domestic product (GDP) in the third quarter of 2003 showed quarterly growth of 0.8 per cent, up from 0.6 per cent in the previous quarter. Comparing the third quarter of 2003 with the same quarter a year ago shows an annual growth rate of 2.1 per cent the same as in the previous quarter. It was noted earlier that both these annual comparisons are

distorted by their base points being in last year's Jubilee celebrations. Year on year growth over the last year or so has gone from a high of 4.3 per cent in the second quarter of 2002 to a low of 1.4 per cent in the first quarter of 2002, before picking up back to the present level. This cycle is an extremely muted one when compared both with recent UK experience and with recent trends in most of the other major international economies.

For the last three years economic growth has been maintained by strength in construction and services while manufacturing and energy production declined. In contrast the first half of 2003 saw a less clear-cut picture. Construction activity showed a sizeable decline in quarter one and a big pick up in the second quarter. Meanwhile, service sector growth decelerated in the first half of the year, while industrial production was roughly flat due to a combination of an improvement in manufacturing and weak energy activity. The third quarter has again been different with growth being led by an accelerating service sector, continued sizeable growth in construction and flat activity in manufacturing.

These figures for third quarter growth represent slight and in some cases offsetting revisions to earlier published figures, and revisions reflect the incorporation of new information. However, in the case of some categories of output full data is still not available and the estimates may change again at a later date as this fuller data is taken on board.

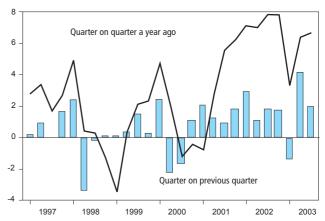
Construction output was responsible for much of the variable pattern of in GDP in the first half of 2003. In the first quarter output it fell by 1.4 per cent, while in the second quarter it rebounded by 4.2 per cent. This accounted for a difference in the GDP growth rate of around 0.3 per cent between the two quarters. Third quarter growth has been more stable at 2.0 per cent, which leaves the annual growth rate at 6.7 per cent up from the first half of the year but still well below 2002's growth figures (Figure 3).

Figure 3

Construction output

Growth

Growtr



Manufacturing output rose by 0.1 per cent in the third quarter, following a 0.7 per cent rise in quarter two and a 0.1 per cent rise in the first quarter. Prior to this the only quarter of positive growth in the previous two years was the third

quarter of 2002, due to the rebound following the Jubilee break. The year on year rate of manufacturing output growth turned positive in the second quarter having gradually risen from a low of -5 per cent in the first quarter of 2002 but dipped again to -0.2 per cent in quarter three. It appears that the manufacturing sector has ended what has been a deep recession but as of the end of the third quarter there was little sign of a more substantial pick up in activity (Figure 4). The monthly growth rate in October pointed to a quickening in activity, however monthly figures can be volatile and the three month on three month growth rate was more stable. Recent survey sector data has done little to question this growth pattern. External surveys of manufacturing have if anything been weaker than official data so far this year and in general they do not point to a pick up in activity in the third quarter. Both the CBI and BCC surveys have continued quite weak through the third quarter, although the CIPS survey has been significantly stronger recently (Figure 5). There have been some signs of improvement in the fourth quarter. The CBI industrial trends survey released in November turned out to be the strongest for some considerable time, consistent with October's stronger figure for manufacturing output.

Figure 4

Manufacturing output

Growth

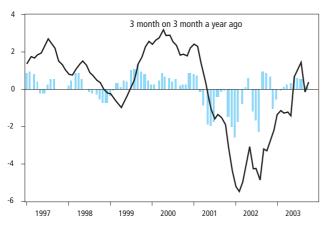
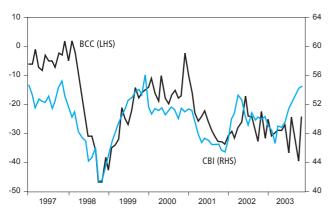


Figure 5 **External manufacturing**

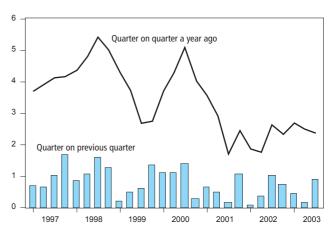
Balances



The service sector accelerated in the third quarter after a run of three-quarters in which activity appeared to be moderating. Quarterly growth was 0.9 per cent in the third quarter of 2003, compared with 0.2 per cent in the second quarter, 0.5 per cent in the first and 0.8 per cent in the fourth quarter of last year. Compared with the same quarter a year ago, annual growth was 2.4 per cent, slightly down on the 2.5 per cent annual growth rate of the second quarter. The quarterly rebound seemed to be widespread. Most areas grew more quickly than in quarter two but a particularly marked acceleration took place in some aspects of business services (Figure 6). The acceleration seems to be largely confirmed by survey data. The CIPS survey of services, which has historically had a close correlation with official data, has risen sharply in recent months. Other surveys, by the BCC and the CBI also show some improvement in activity although less pronounced and less widespread than the rise in the CIPS data.

Figure 6 **Services output**

Growth



Household demand

Quarterly growth in household final consumption was 0.9 per cent in the third quarter of 2003, compared to the 0.8 per cent recorded in quarter two and the small fall of 0.2 per cent in the first quarter. Growth compared with the same quarter a year ago was 2.5 per cent a slight acceleration from 2.1 per cent for the previous quarter. Consumer spending remains one of the most robust sectors of the economy but annual growth is about 1 per cent below the annual average for last year.

The breakdown of consumer spending patterns shows growth spread across the sector. Spending on durable goods rose by 2.2 per cent in the third quarter down on its second quarter growth rate of 3.3 per cent. Purchases of both semi-durable and non-durable goods at 1.1 per cent and 0.5 per cent respectively were also slower than in the second quarter although in the case of the former category the slowdown was very minor. In contrast spending on services at 1.0 per cent was considerably quicker than that of the previous quarter (Figure 7).

There seem to be a number of reasons for this continued strength. Unemployment remains low and consumer confidence after dipping in the first few months of the year, possibly due to the Iraqi conflict, has subsequently rebounded. Income growth remains moderate although it has been somewhat eroded by the increase in National Insurance contributions this year. The increases in house prices are also leading some consumers to feel wealthier (Figure 8). Moreover, the signs are that at least some of these price gains are being turned into income via equity withdrawal and at least some of this gain will subsequently be spent.

Figure 7 **Household demand**

Growth

Growth

Quarter on quarter a year ago

Quarter on previous quarter

1
1
1997
1998
1999
2000
2001
2002
2003

House pricesGrowth, 3 months on previous 3 months

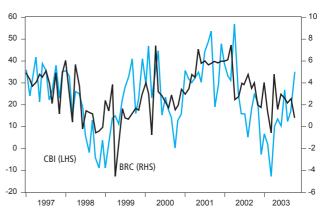
Figure 8

Official monthly retail sales figures provide a confirmation of this robust spending pattern. Retails sales in volume terms rose by 1.2 per cent in the third quarter after a gain of 1.5 per cent in the second and a fall of 0.7 per cent in the first quarter. The latest data currently available is for November and this showed a monthly rise of only 0.1 per cent, however most of the slowdown was in food sales while non-food sales remain quite robust. External figures provide a partial confirmation of this pattern of retail sales. Both the BRC and CBI retail

surveys have been volatile from month to month but ion average they have suggested that spending was quite strong over the last six months. Sales on these estimates got off to a weak start in the third quarter but seemed to have picked up over the three months and continued this trend into the early part of the fourth quarter (Figure 9). In contrast some anecdotal reports from retailers note that the period since the early November interest rate increase by the Bank of England has seen much more subdued spending. This is yet to be confirmed by actual data.

Figure 9 **External retailing**

Growth

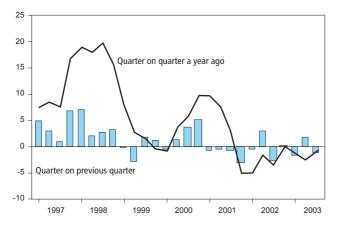


Business demand

In contrast to consumers, businesses appear to have been more reluctant to spend during the third quarter. Fixed investment for the economy as a whole fell by 0.5 per cent in the third quarter leaving it up by just over 1 per cent compared with year ago, a slight upward revision from the initial estimate. This fall was primarily due to business spending as investment in dwellings actually rose on the quarter, as did government investment. Much of the weakness in investment over the last few three years has been due to business investment, which fell sharply during 2001 before seeming to stabilise in 2002. The first quarter of 2003 saw business fixed investment down 1.8 per cent when compared with the last quarter of 2002, and by 1.3 per cent compared with the same quarter a year ago (Figure 10). Revised second quarter figures now show a rise in spending of 1.7 per cent. However, this was due to higher spending on buildings and structures, while investment spending on plant and equipment fell during the quarter. The third quarter figures showed a fall in business investment of 1.2 per cent with another big fall in machinery and equipment investment the biggest negative contributor. This last category has now fallen for five quarters in a row.

Figure 10 **Business Investment**

Growth, 3 months on previous months

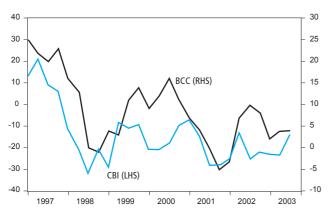


The environment remains a mixed one for investment. An increase in investment depends upon firms finding it both affordable and profitable to invest. The last few quarters have seem some improvement in profitability. Gross trading profits of Non-financial corporations were up significantly in the second quarter when compared with a year ago but by less in quarter three. Non-financial corporations have also been net lenders since the first quarter of 2001, a process that has allowed them to start to repair balance sheets. However, this process still has a long way to go. The financial balance sheet shows the sector having net liabilities of £1,199 billion in the second quarter of 2003, a slight rise when compared with the previous quarter.

It is also unclear whether firms perceive this as a favourable environment in which to boost investment. They generally continue to report a lack of pricing power, and very low capacity utilisation. This combination makes it difficult to see why investment should pick up significantly without a sustained increase in demand and surveys of investment intentions continue to show only limited plans to increase spending (Figure 11).

Figure 11 **Investment plans**

Balances

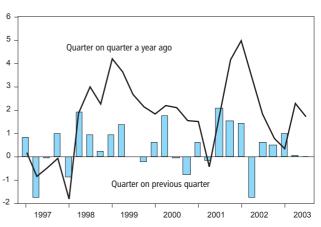


Government demand

Government final consumption expenditure in real terms grew by 0.2 per cent in the third quarter of 2003, a slower pace of growth than in the first half of the year when activity rose on average by 0.6 per cent. Some of this rise and subsequent fall back was accounted for by a one-off rise in defence spending linked to the Iraq conflict. However, some other areas of spending were also somewhat weaker. Growth compared with the same quarter a year ago was 2.4 per cent, indicating that the underlying rate of government expenditure growth is still quite rapid when compared to spending in much of the rest of the economy (Figure 12).

Figure 12 **Government spending**

Growth



The combination of faster government expenditure growth alongside weaker revenues reflecting the more subdued economic activity has led to deterioration in the public sector's finances. The public sector, a substantial net lender in the years 1998 to 2001 became a net borrower again in 2002. The net borrowing figure for 2002 was £16.5 billion, which compares with a net lending figure of £7.5 billion in the previous year. This trend continued into 2003 and the third quarter saw a net borrowing Figure of £7.3 billion, compared with £7.4 billion for the second quarter and £7.7 billion for the first quarter.

Trade and the Balance of Payments

In volume terms both import and export activity was weak during the third quarter. Exports of goods and services rose by 0.4 per cent on the quarter, compared with the previous quarter's 2.9 per cent fall. This was largely due to a recovery in service exports after a fall in quarter two, but they remain relatively weak. Imports of goods and services also grew very slowly at 0.5 per cent, again up on the second quarter fall of 2.6 per cent but still quite subdued. To some extent the weakness in the trade numbers is misleading as it is still being distorted by the impact of MTIC fraud. The discovery of this resulted in the import data for a number of years prior to 2003 being revised upward, but the effect on 2003 has been to reduce growth rates for both export and import numbers because of the subsequent clampdown by customs. However,

even adjusted for MTIC fraud, third quarter exports of goods appear weak.

Breaking these down by area shows that exports to both the EU and the rest of the world were at best stagnant in the third quarter. At least some of the weakness in the former was due to sharp movements in oil and erratic items. The weakness in exports outside the EU looks to have been more widespread and might seem a little surprising given the pick up in international economic activity that has taken place. The underlying rate of import growth also looks low when compared to the growth rate of domestic demand but may reflect the fact that fixed investment spending, which can be particularly import intensive, has remained weak.

Both the CBI and BCC surveys seem to confirm that export performance has been subdued so far this year, although export orders did rise in the CBI survey for November holding out the hope of an improvement. Weak third quarter import numbers for at least some of the UK's main trading partners also provides some confirmation of the export picture. The latest data available at the time of writing is the October trade data. This showed that UK exports to outside the EU area picked up early in the fourth quarter but that exports to the EU continued to stagnate.

The UK current account was in substantial deficit in the third quarter of 2003 for the second quarter in a row, following a much smaller deficit in the first quarter. The third quarter current account deficit was £8.1 billion compared with £2.6 billion and £7.8 billion in the first and second respectively. The composition of the second and third quarter deficits was very similar, comprising large deficits on trade in goods and services, which were only partially offset by income flows. The rise in the deficit between the first and subsequent two quarters is primarily due to a fall in net investment income, both from direct and portfolio investment. A revision to historic numbers for other income has increased outflows in that area and has led to a significant rise in current account deficit numbers for some years prior to 2002 (Figure 13).

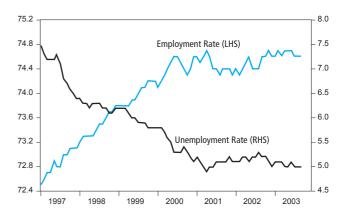
Figure 13 **Balance of Payments**

£ million 12000 8000 Income 4000 -4000 -8000 Current Account Trade Balance -120001997 1998 1999 2000 2001 2002 2003 HBOP HBOJ --- IKBJ

Labour Market

Headline labour market statistics continue to be remarkably stable. Employment is high, with the labour force survey (LFS) employment rate at 74.6 per cent in the three months to October, unchanged compared with a month ago. Meanwhile the LFS count of employment increased by 28,169 over the same period. The ILO unemployment rate was 5.0 per cent in the three months to October (Figure 14), down slightly when compared with the previous quarter and a year ago. The claimant count unemployment rate, at 3.0 per cent in November was unchanged on the month.

Figure 14 **Labour Force Survey**



Full-time employment has been falling over the last year or so as most job gains have been in part-time work. In the three months to October, the number of full-time workers fell by 4,000, while the number working part time was up by 42,000. However, comparing the numbers with the same period a year ago gives a somewhat different picture; then the number of full-time workers was up 155,000 and the number of part-time workers was only up 74,000.

Another recent trend has been for job gains to be in self-employment. The number of self-employed workers in the three months to October was up 3.1 per cent compared with the previous three months and 8.9 per cent compared with a year ago. In comparison the number in employment was slightly down on a three-month basis and on the year.

The average earnings index rose at a faster rate over the latest period, up by 3.6 per cent in the three months to October, unchanged from September. This is still well below the 4.5 per cent figure that the Bank of England considers broadly consistent with their inflation target. The gap between public and private sector earnings growth remains wide by recent standards, with public sector earnings growing more quickly.

Prices

Producer output prices rose by 1.7 per cent annually in November, an acceleration of? per cent from the October rate. After falling back in the second quarter, output prices now seem to have resumed the upward trend that appeared to be underway earlier in the year. Recent movements have

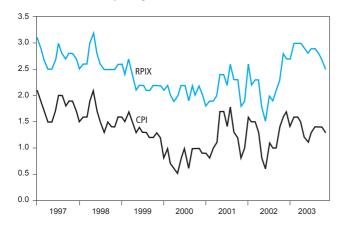
been affected by fluctuations in the oil price, but underlying inflation has also gone up. Output prices excluding food, beverages tobacco and petroleum products were up by 1.3 per cent in November, the same as the previous month. Input prices were volatile in 2003. In the first quarter they rose by 1.7 per cent, then fell back by 0.5 per cent in the second quarter as the oil price declined but have since climbed once again rising 3.8 per cent in November compared with a year ago.

Consumer price inflation (CPI) fell slightly in November. That was the first data release since the Chancellor announced a change in the inflation target. The new target for the Bank of England is to keep CPI inflation (the new term for the Harmonised Index of Consumer Prices) to 2.0. In October CPI inflation was 1.3 per cent, down 0.1 per cent compared with a month ago and well below target. The old target measure RPIX, also fell over the month, by 0.2 per cent to 2.5 per cent, exactly equal to the old target rate (Figure 15).

Figure 15

Prices

Growth, month on a year ago



Forecasts for the UK economy

A comparison of independent forecasts, December 2003

The tables below are extracted from HM Treasury's Forecasts for the UK Economy and summarise the average and range of independent forecasts for 2003 and 2004, updated monthly.

| Independent forecasts for 2003 | | | | | | | | | |
|---|------------|------------|------------|--|--|--|--|--|--|
| | Average | Lowest | Highest | | | | | | |
| GDP growth (per cent) | 2.0 | 1.8 | 2.1 | | | | | | |
| Inflation rate (Q4 per cent) RPI RPI excluding MIPs | 2.7 2.6 | 2.2 2.2 | 3.5 2.9 | | | | | | |
| Unemployment (Q4, million) | 0.93 | 0.91 | 1.00 | | | | | | |
| Current account (£ billion) | -23.1 | -39.3 | -16.0 | | | | | | |
| Public Sector-Net Borrowing (2003–04, £ billion) | 34.9 | 29.0 | 40.0 | | | | | | |

| Independent forecasts for 2004 | | | | | | | | | |
|---|------------|------------|------------|--|--|--|--|--|--|
| | Average | Lowest | Highest | | | | | | |
| GDP growth (per cent) | 2.6 | 0.9 | 3.5 | | | | | | |
| Inflation rate (Q4 per cent) RPI RPI excluding MIPs | 2.9 2.4 | 1.8 1.7 | 3.8 3.3 | | | | | | |
| Unemployment (Q4, million) | 0.93 | 0.76 | 1.20 | | | | | | |
| Current account (£ billion) | -23.9 | -41.4 | -5.0 | | | | | | |
| Public Sector Net Borrowing (2004–05, £ billion) | 36.0 | 28.0 | 49.0 | | | | | | |

NOTE Forecasts for the UK Economy gives more detailed forecasts, covering 27 variables and is published monthly by HM Treasury, available on annual subscription, price £75. Subscription enquiries should be addressed to Claire Coast-Smith, Public Enquiry Unit 2/S2, HM Treasury, 1 Horse Guards Road, London, SW1A 2HQ (tel 020 7270 4558). It is also available at the Treasury's Internet site: http://www.hm-treasury.gov.uk under 'Economic Data and Tools'.

International economic indicators January 2004

Nicola Mai

Office for National Statistics

Overview

The first half of 2003 saw the non-EU major economies strengthening while the EU area was still struggling with low or negative output growth rates. The German, French and Italian economies all contracted in the second quarter, being struck by low or falling investment and negative contributions from net foreign trade. In contrast a pick up in investment and consumer spending helped Japan and the US, which showed signs of recovery.

In the third quarter of 2003, however, there have been signs of a global recovery. The performance of the US was particularly robust with the American GDP growing at 2.0 per cent in the quarter, driven primarily by consumption and recovering investment. The major EU economies and Japan all showed positive growth in quarter three.

Industrial production contracted in all major economic areas in quarter two. The IOP rebounded quite strongly in quarter three in the US, Japan and Italy whereas it remained negative in France and Germany. However, while the French IOP fell by only 0.1 per cent, the German IOP fell by 0.6 per cent in the quarter, confirming the weakness of the production sector in the largest European economy.

The Italian unemployment rate seems to be declining, the German rate is broadly flat and the French rate has been increasing steadily since the beginning of the year according to monthly figures. Unemployment seems to be falling in the US and Japan.

Inflationary pressures have been stable and fairly subdued. Deflation continues in Japan but is more moderate than before.

EU15

Table 1 European Union 15 is not available this month. We apologise for any inconvenience to our readers for this omission.

Germany

The German economy contracted for two consecutive quarters in 2003 with GDP falling by 0.2 per cent in each of the first two quarters. This followed on from two years of modest growth with overall GDP growing by 0.2 per cent in 2002 and 1.0 per cent in 2001. In 2003 quarter three GDP grew by 0.2 per cent. This figure is still fairly subdued but reversed the negative trend of the year. External surveys at the end of 2003 showed a pick up in business and consumer confidence and analysts expect official data to strengthen in 2003 quarter four and into 2004. Tax cuts and labour market reforms approved by the German government in December are also expected to contribute positively to growth.

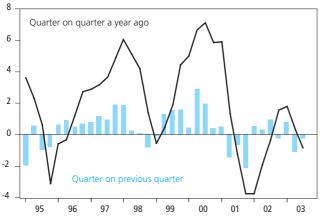
The major downward pressures to GDP in the first half of 2003 came from negative net exports and weak private sector domestic demand (household and investment) partially offset by a modest increase in government consumption and a substantial increase in stocks. More generally there has been a lack of any appreciable domestic momentum in the German economy. Household consumption made a negative contribution of 0.6 per cent in 2002 and investment expenditure has been in decline, showing contractions in annual growth in both 2001 and 2002. Government demand has made only small contributions in recent years. The positive impetus that came mainly from exports in 2002 quarters two and three slowed considerably in 2002 quarter four and in the first half of 2003 and this contributed substantially to the weaker performance of the economy.

GDP growth in 2003 quarter three was driven mainly by a pick up in net exports, which rebounded sharply from

its early sluggishness. Exports rose strongly contributing 1.2 per cent to GDP growth, while a sharp fall in imports contributed another 0.6 per cent. Strong foreign demand relative to domestic demand supported net exports, which at least in the short run were not adversely affected by the strong euro. On the other hand, domestic demand in the quarter remained weak with private consumption and fixed investment contributing negatively to growth, by –0.3 and –0.2 respectively. Inventories decreased sharply in the quarter contributing by –1.1 per cent to growth, but this series is hard to interpret since it contains alignment adjustments.

The IOP declined by 0.3 per cent in 2003 quarter three due to low production in August and September which offset a sharp increase in the index in July. In the first half of the year, industrial production had risen by 0.8 per cent in quarter one and declined by 1.1 per cent in quarter two. On the whole, growth in industrial production has been subdued since 2001, when it grew by only 0.5 per cent, compared to growth of 6.2 per cent in 2000. Overall in 2002, the index fell by 1.1 per cent. Figure 1 shows the pattern of the German IOP since 1995.

Figure 1 **Germany: Index of production**



The CPI shows consumer prices growing by 1.1 per cent in the year to October and by 1.0 per cent in quarter three on the same quarter a year earlier. German consumer price inflation has been well below the EU average and is the lowest among the large Euro economies. Figures for the PPI show prices at the factory gate increasing by 1.9 per cent in the year to September and by 2.0 per cent for quarter three on the same quarter a year ago. So far in 2003, the CPI has tended to grow more slowly than the PPI, possibly indicating deceleration of prices in the service industries and other items not included in the producer price index.

The unemployment rate in Germany has been high but stable recently. The rate was 9.3 per cent in October and has been oscillating between 9.3 and 9.4 per cent since March 2003, the highest levels recorded in Germany since May 1998. Prior to this, the unemployment rate had risen gradually from a trough of 7.6 per cent in 2000 quarter four and 2001 quarter one. Employment in the year to the first and second quarters of 2003 contracted by 1.7 and 1.8 per cent respectively and this employment series has now shown declines for seven consecutive quarters. On the other hand, the growth rate

of employment in quarter two on the previous quarter was positive - 0.6 per cent - although the quarterly pattern is fairly volatile.

Earnings growth hovered between 1.0 per cent and 1.1 per cent from 2001 quarter three to 2002 quarter two, down from a 2.0 per cent growth rate in the first half of 2001. In 2002 quarter three, earnings returned to a rate above 2 per cent growing by 2.1 and 2.4 per cent in the last two quarters of 2002. Earnings growth has been fairly stable in 2003 as well with annual growth rates in quarters one, two and three of 2.7, 2.8 and 2.1 per cent respectively being posted.

France

French GDP in 2003 quarter three grew by 0.4 per cent, the highest quarterly growth rate since the first half of 2002. This followed on from a contraction of 0.3 per cent in the second quarter and an expansion of 0.1 per cent in the first quarter. Overall in 2002, the economy grew by 1.2 per cent, the lowest growth rate since 1996 but still one of the highest amongst the major Euro economies that year.

Growth in the third quarter was aided by an increase in exports, rising after three consecutive quarters of falls and contributing 0.3 per cent to GDP growth. Consumption also contributed 0.3 per cent to growth whereas investment remained relatively weak contributing only 0.1 per cent to GDP growth. Government consumption also grew in the quarter and made a positive contribution of 0.2 per cent to growth whereas stocks decreased making a negative contribution of 0.4 per cent to growth. Recently, external indicators have shown signs of rising business confidence and analysts expect to see a pick up in activity in France for 2003 quarter four and into 2004.

It is worth pointing out that in spite of the weak performance over the last two years, in line with global trends, the French economy has generally outperformed the EU 15. France's performance in the recent past has been helped by tax cuts, which have underpinned growth in disposable income and consumer spending.

The French IOP followed a similar path to the German IOP in 2003. The index grew by 0.4 per cent in the first quarter of the year and declined by 1.5 and 0.1 per cent in the second and third quarters respectively. On a monthly basis, the index fell by 1.8 per cent in the year to September by 2.4 per cent in the year to August, indicating that industrial production is weak compared to a year ago. Industrial production has been very weak for the last couple of years, showing negative annual growth rates all the way since 2001 quarter four, with the single exception of the first quarter of 2003. The quarter on previous quarter growth rates have been more volatile but generally confirm this picture. On the positive side, external indexes of business confidence are rising, offering more optimistic prospects for the future.

Consumer price inflation rose quite strongly in the first quarter of 2003, jumping from 1.9 per cent in January to 2.6 per cent in February and March. In quarter two however inflation slowed down and the rate was 1.8 and 2.0 per cent in May and June. In quarter three, inflation was fairly stable and

CPI growth was 2.1 in September up from 1.9 in July August. In October, CPI inflation increased slightly to 2.2 per cent.

Producer prices grew quite strongly in the first half of 2003 with growth rates of 0.6 per cent in the year to the first and second quarters. Producer price growth however stalled in the third quarter and remained near zero in October when the PPI grew by 0.1 per cent. In the long run, the index has roughly followed the movement of the CPI but has been much more volatile.

The French unemployment rate has been rising steadily over the past year. It has risen from 9.1 per cent in January 2003 to 9.6 per cent in October. This is the highest rate since July 2000. Employment growth has been showing a steady decline since the start of 2001 when computed as growth of a quarter on the same quarter a year earlier. When looking at quarter on previous quarter growth (this measure tends to be more volatile but is less linked to past events), however, there seems to have been a stabilisation of employment growth in 2002 through 2003 at around 0.1 per cent, with the exception of a slowdown in 2003 quarter one.

Annual earnings growth has been easing since 2000 and declined from 4.1 per cent in the year to the fourth quarter of 2001 to 2.6 per cent in the second quarter of 2003. In the third quarter, however, there was a pick up in earnings growth which jumped to 3.0 per cent. Figure 2 shows the pattern of earnings growth in France since 1990.

Figure 2 France: Earnings



Italy

In 2003 quarter three the Italian economy showed a fairly strong pick up with GDP growing at 0.5 per cent, the fastest rate among the major EU economies. The Italian economy had contracted by 0.2 per cent in the first two quarters of 2003 after positive modest growth in 2002 of 0.4 per cent and more substantial growth of 1.7 per cent in 2001. Since 2001 the Italian economy has tended to grow more quickly than that of Germany but generally has not been as strong as the French economy.

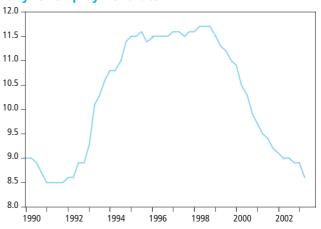
In the first two quarters of 2003, private consumption made a small but positive contribution to GDP growth. Inventories also made a strong positive contribution but not enough to offset the impact of decreasing net exports and the decline in investment. Government expenditure has been roughly flat.

Industrial production has been very weak since the second quarter of 2001 showing negative annual growth until 2003 quarter two, with the exception of 2002 quarter four. The quarterly growth rates picked up in the first three quarters of 2002 but subsequently output declined. In 2003 quarter three industrial production picked up and was 1.4 per cent higher than in the previous quarter but still lower than production in the same quarter a year earlier.

Consumer price inflation in recent years has been consistently higher than the EU average (Figure 3). In 2003, inflation has been quite stable and ranged between 2.6 and 2.8 per cent. The October figure for inflation was 2.6 per cent. Producer price inflation on the other hand has been slowing through the year, going from 2.8 per cent in February to 0.6 per cent in October. The difference between the two might be an indication of accelerating service prices but it could also be the effect of other ticket items not included in the PPI.

The unemployment rate in Italy has been steadily declining since 1998 when the rate was as high as 11.7 per cent (Figure 3). The rate was broadly flat at 9.0 per cent in 2002 but declined steadily in 2003 going from 9.0 per cent in January to 8.5 per cent in July. Employment growth was 0.9 per cent in the year to the third quarter of 2003 down from growth of 1.3 per cent in the year to the second quarter of 2003 but nevertheless still positive.

Figure 3 **Italy: Unemployment rate**



Earnings figures are quite volatile. It is worth noticing however that earnings' growth rates in the year to July, in the year to August and in the year to September 2003 were 3.2 per cent, showing a pick up in momentum, which had been lost between February and June. The growth rate in the year to October was 2.7 per cent, slightly lower than the previous month but still higher than earlier in the year.

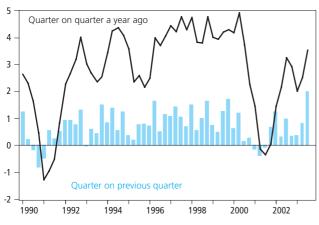
USA

The US economy has shown very strong signs of recovery in 2003 having grown by 0.4, 0.8 and 2.0 per cent in the first three quarters. The data clearly suggests that the American

economy is leading the global recovery. Figure 4 shows the pattern of American GDP growth since 1990.

Personal consumption, the main driver throughout 2002 and in the first two quarters of 2003 continued to lead growth in 2003 quarter three, contributing 1.1 percentage points to quarterly GDP growth. Investment made the second highest contribution to GDP growth, of 0.7 per cent, the most rapid rise since the technology boom in the 1990s. Investment has picked up in the US through the year, showing consistently positive growth in 2003 after almost two years of continual decline. Net exports also made a small positive contribution to growth, of 0.2 per cent, thanks to the weakness of the dollar. Finally, government consumption did not make any contribution to growth, which contrasts with the second quarter, which saw a surge in defence spending. In spite of the very positive results, it is perhaps still too early to say whether this astonishing third quarter growth rate is merely a blip or the start of a more prolonged strengthening in activity.

Figure 4
USA: Gross Domestic Product



The index of production has been fairly volatile. After a decline of 1.0 per cent in 2003 quarter two, the index picked up in the third quarter, growing by 1.0 per cent. Overall in 2002, the index contracted by 0.6 per cent but this is mainly due to the pronounced decline in activity in 2001 rather than too sluggish growth in 2002. Indeed, growth in 2002 was positive for all quarters except the last.

Inflation rates had been low until January 2003. After that point consumer price inflation started to increase and reached a peak in March when the rate hit 3.1 per cent. Much of this though could be explained by fluctuations in the oil price and since the peak, inflation has slowed stabilising at a rate slightly above 2 per cent. By October, consumer price inflation was 2.0 per cent. The change in the growth rate of producer prices has followed a similar pattern to consumer price growth but have been much more volatile. Producer prices fell from a peak of 4.5 per cent in March this year to 1.9 per cent in October.

The unemployment rate has been rising since 2000 when the rate was 4 per cent but may have turned around in the third quarter. From 4 per cent in 2000, the rate rose to 4.8 per cent in 2001 and 5.8 per cent in 2002. The unemployment rate reached a peak of 6.4 per cent in June 2003. The rates for the

months of July, August and September this year were 6.2, 6.1 and 6.1 per cent respectively, suggesting an improvement in the labour market. Unemployment fell further in October when it reached 6.0 per cent. Employment in the latest quarter also grew by 0.3 per cent on the previous quarter.

Earnings growth has been very stable over the year, hovering around 3.2 and 3.3 per cent and staying at very similar levels with both 2001 and 2002 when the growth rate was 3.3 per cent. Earnings growth fell in October to 2.4 per cent but this may just be a blip and should not yet be deemed as evidence of a change in trend.

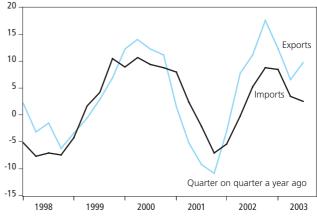
Japan

The Japanese economy grew by 0.5 per cent in the first quarter of 2003, by 0.9 per cent in the second and by 0.5 in the third quarter. The Japanese economy has been growing more quickly than the Euro area economies but more slowly than the American economy.

Consumption has been growing modestly over the year while investment growth has also been fairly buoyant and contributed substantially to growth in the second and third quarter of 2003. Government consumption and inventories have both had little impact on growth over the year and made no contribution in the third quarter. Net exports in contrast have been fairly strong since 2002 (Figure 5) and contributed 0.2 per cent to growth in 2003 quarter three. More generally, the Japanese economy seems to have picked up some momentum since the second quarter of 2002. Growth in the later quarters of 2002 had been driven by a combination of stronger consumer demand and investment, substantial stock building and a fairly strong rebound in exports.

Figure 5

Japan: Foreign trade



As with all the other major economies outside the UK, the index of production contracted in 2003 quarter two by 0.8 per cent having grown by 0.4 per cent in the previous quarter. The index however saw a rebound in quarter three when it grew by 1.0 per cent. Looking at the monthly changes shows that the rise in the index in the third quarter is due mainly to a sharp rise in September when the index grew by 3.7 per cent on the previous month. Overall in 2002, the index declined by 1.1 per cent compared to a year earlier which, although negative, is a substantial improvement over the previous year's contraction

of 6.2 per cent. Indeed, the fall of the index in 2002 seems to be due to the negative growth in all quarters of 2001 - which brought the index level down substantially - rather than 2002 itself where the quarterly growth rates were all positive.

Consumer and producer prices continue the deflation that began in mid-1998, although price falls have slowed since late 2002. Figures for the year to September show the consumer prices index declining by 0.2 per cent and the producer prices by 0.8 per cent. The PPI declined by 0.9 per cent in the year to October.

The unemployment rate in October was 5.2 per cent, the same as the average rate of the previous quarter. These recent rates of unemployment are very high by Japanese historical standards (unprecedented in fact since 1960 when OECD records began). Employment had picked up towards the end of the second quarter but seems to revert back to declines since then, falling in August, September and October.

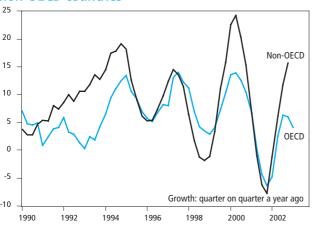
Despite the current weak labour market, earnings growth, which had been in decline until late 2002, started to pick up in 2002 quarter four and was 1.8 per cent in the third quarter of 2003. This is a significant improvement from the third quarter of 2002 when earnings were 2.2 per cent lower than in the same quarter of the previous year.

World Trade

Some data for world trade for OECD countries now extends to the first quarter of 2003 and generally shows a fall back in trade from the levels seen in the first half of 2002.

Manufacturing exports of OECD countries contracted by 0.4 per cent, following a contraction of 0.9 per cent in the previous quarter. Overall in 2002, exports of manufactures in OECD countries grew by 2.5 per cent, a significant improvement over the previous year's fall of 1.0 per cent but still well below the average of the 1990s. OECD imports also increased by 2.4 per cent in 2002, up from a growth rate of -0.6 per cent in 2001 but well below the average of the 1990s. Non–OECD exports of manufactures in 2002 grew by 8.1 per cent in the same period, improving substantially from 2001 where there was a fall of 2.1 per cent. No figure is available for non-OECD imports. Figure 6 plots exports of manufactures in OECD and non-OECD countries since 1990.

Figure 6
World trade: Exports of manufactures in OECD and non-OECD countries



Imports of goods by OECD countries also contracted, by 0.2 per cent in the first quarter of 2003 having shown growth in all quarters of 2002. In 2002 as a whole, OECD goods' imports were up 2.7 per cent compared to a contraction in the previous year of 1.1 per cent.

World trade of goods and manufactures over the past couple of years rose strongly in 2000 and fell sharply in 2001, where the rates were negative in all quarters. In 2002 growth in world trade, however, seems to have picked up again.

Notes

The series presented here are taken from the OECD's Main Economic Indicators and are shown for each of the G7 (except the UK) economies and for the European Union (EU15) countries in aggregate. The definitions and methodologies used conform to SNA 93.

Comparisons of indicators over the same period should be treated with caution, as the length and timing of the economic cycles varies across countries. For world trade, goods includes manufactures, along with food, beverages and tobacco, basic materials and fuels.

Data for EU15, France, Germany, Italy, the USA and Japan are all available on an SNA93 basis. Cross country comparisons are now more valid.

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2 Germany

| | | | Co | ntribution t | o change in | GDP | | | | | | | | |
|-----------------|--------------------|-------------------|----------------|--------------|--------------|-------------|-----------------|--------------|--------------|-------------|--------------|-------------|-------------------|-------------|
| | GDP | PFC | GFC | GFCF | ChgStk | Exports | less Imports | IoP | Sales | CPI | PPI | Earnings | Empl ¹ | Unempl |
| Percentage c | | | | LILIDY | LILIDZ | 111104 | LILIOD | II 00 | | 1001 | | " 40 | 11.10 | CARD |
| 1998 | ILFY 1.7 | HUBW 0.9 | HUBX 0.3 | HUBY 0.5 | HUBZ 0.3 | HUCA 1.8 | HUCB 2.2 | ILGS 4.2 | ILHM 1.1 | HVLL 1.0 | ILAF -0.4 | ILAO 1.8 | ILIG 1.5 | GABD 9.1 |
| 1999 | 1.9 | 2.0 | 0.2 | 0.8 | -0.4 | 1.5 | 2.3 | 1.5 | 0.4 | 0.6 | -1.0 | 2.7 | -0.1 | 8.4 |
| 2000 2001 | 3.1 1.0 | 1.2 0.9 | 0.2 0.2 | 0.7 -0.9 | -0.2 -0.8 | 4.4 2.0 | 3.2 0.4 | 6.2 0.5 | 1.4 1.1 | 1.5 1.9 | 3.4 2.9 | 2.6 1.6 | 0.6 0.3 | 7.8 7.8 |
| 2002 | 0.2 | -0.6 | 0.2 | -1.4 | 0.1 | 1.2 | -0.5 | -1.1 | -2.1 | 1.5 | -0.4 | 1.6 | -0.9 | 8.6 |
| 2000 Q2 | 4.5 | 2.1 | 0.3 | 0.9 | -0.2 | 4.2 | 2.8 | 6.7 | 4.4 | 1.1 | 2.6 | 2.5 | 0.6 | 7.8 |
| Q3 Q4 | 3.0 1.9 | 1.5 0.6 | 0.3 | 0.6 0.5 | _ | 4.0 4.9 | 3.2 4.4 | 7.1 5.8 | 1.6 -0.1 | 1.3 1.8 | 3.7 4.5 | 3.2 2.3 | 0.4 0.8 | 7.7 7.6 |
| 2001 Q1 | 1.9 | 1.2 | 0.1 | -0.2 | -0.4 | 3.6 | 2.3 | 5.9 | 2.2 | 1.7 | 4.8 | 2.0 | 0.7 | 7.6 |
| Q2 | 0.8 | 0.6 | 0.1 | -0.7 | -0.4 | 2.5 | 1.4 | 1.4 | 0.5 | 2.5 | 4.7 | 2.0 | 0.7 | 7.7 |
| Q3 Q4 | 0.7 0.5 | 0.9 0.7 | 0.2 0.3 | −1.3 −1.4 | −1.2 −1.3 | 2.0 0.1 | -0.1 -2.1 | -1.3 -3.8 | 1.5 0.3 | 2.2 1.6 | 2.6 0.3 | 1.1 1.1 | 0.2 -0.3 | 7.9 8.1 |
| 2002 Q1 | -0.1 | -0.5 | 0.3 | -1.4 | -0.7 | 0.4 | -1.9 | -3.7 | -4.2 | 1.9 | -0.2 | 1.1 | -0.5 | 8.3 |
| Q2 | 0.1 | -0.7 | 0.4 | -1.7 | 0.2 | 1.0 | -0.9 | -1.9 | -2.2 | 1.3 | -0.9 | 1.0 | -0.8 | 8.5 |
| Q3 Q4 | 0.4 0.5 | -0.7 -0.4 | 0.6 | –1.4 –1.1 | 0.3 0.7 | 1.6 1.9 | 0.7 | -0.3 1.6 | -0.8 -1.3 | 1.1 1.2 | -1.0 0.5 | 2.1 2.4 | −1.0 −1.3 | 8.7 8.9 |
| 2003 Q1 | 0.1 | 0.4 | _ | -1.0 | 1.3 | 1.4 | 2.1 | 1.8 | 1.0 | 1.2 | 1.7 | 2.7 | -1.7 | 9.2 |
| Q2 Q3 | -0.3 -0.2 | -0.5 | 0.1 | -0.4 -0.6 | 0.7 0.1 | -0.1 0.3 | 0.5 -0.4 | 0.3 -0.9 | -0.1 -2.6 | 0.8 1.0 | 1.4 2.0 | 2.8 2.1 | -1.8 | 9.4 9.4 |
| 2002 Oct | | | | | | | | 0.8 | 1.4 | 1.3 | 0.3 | | | 8.8 |
| Nov | | | | | | | | 3.8 | -3.0 | 1.2 | 0.3 | | | 8.9 |
| Dec | | | | | | | | - | -2.3 | 1.2 | 0.9 | | | 8.9 |
| 2003 Jan | | | | | | | | 1.6 | 1.8 | 1.1 1.2 | 1.6 | | | 9.0 |
| Feb Mar | | | | | | | | 2.4 1.4 | 1.3 –0.3 | 1.2 | 1.9 1.7 | | | 9.2 9.3 |
| Apr | | | | | | | | 0.9 | -0.2 | 0.9 | 1.6 | | | 9.4 |
| May | | | | | | | •• | 1.5 | -1.3 | 0.6 | 1.3 | | | 9.4 |
| Jun | | | | | | | | -1.4 | 1.2 | 0.9 | 1.3 | | | 9.3 |
| Jul Aug | | | | | | | | 1.9 –2.8 | -2.0 -3.0 | 0.9 1.1 | 1.9 2.1 | | | 9.3 9.4 |
| Sep | | | | | | | | -1.7 | -2.9 | 1.0 | 1.9 | | | 9.4 |
| Oct | | | | | | | | | -0.8 | 1.1 | | | | 9.3 |
| Percentage c | hange on p ILGI | revious q HUCC | uarter HUCD | HUCE | HUCF | HUCG | HUCH | ILHC | ILHW | | | | ILIQ | |
| 2000 Q2 | 1.1 | 0.8 | -0.1 | 0.1 | _ | 1.2 | 0.9 | 2.9 | 1.1 | | | | 1.0 | |
| Q3 Q4 | -0.1 - | -0.1 -0.2 | -0.1 0.3 | 0.2 -0.2 | 0.2 0.1 | 0.6 1.7 | 1.0 1.6 | 2.0 0.4 | -1.5 0.3 | | | | 0.7 1.0 | |
| 2001 Q1 | 0.9 | 0.7 | _ | -0.4 | -0.7 | _ | -1.1 | 0.5 | 2.3 | | | | -1.9 | |
| Q2 | - | 0.3 | -0.1 | -0.4 | - | 0.1 | - | -1.5 | -0.6 | | | | 1.0 | |
| Q3 Q4 | -0.2 -0.1 | 0.1 -0.4 | 0.4 | -0.3 -0.3 | -0.6 - | 0.1 -0.2 | -0.5 -0.4 | -0.7 -2.1 | -0.5 -0.9 | | | | 0.2 0.5 | |
| 2002 Q1 | 0.2 | -0.5 | _ | -0.4 | -0.1 | 0.3 | -0.9 | 0.5 | -2.3 | | | | -2.2 | |
| Q2 | 0.2 | 0.1 | 0.1 | -0.7 | 0.9 | 8.0 | 1.0 | 0.3 | 1.5 | | | | 0.7 | |
| Q3 Q4 | 0.1 | 0.1 -0.1 | 0.1 -0.1 | _ | -0.5 0.4 | 0.7 | 0.3 0.3 | 0.9 -0.3 | 0.9 -1.4 | | | | 0.2 | |
| 2003 Q1 | -0.2 | 0.2 | _ | -0.3 | 0.5 | -0.1 | 0.5 | 0.8 | _ | | | | -2.6 | |
| Q2 Q3 | -0.2 0.2 | -0.3 -0.3 | 0.1 0.1 | -0.1 -0.2 | 0.4 -1.1 | -0.8 1.2 | -0.6 -0.6 | -1.1 -0.3 | 0.5 -1.6 | | | | 0.6 | |
| Percentage c | | | | -0.2 | -1.1 | 1.2 | -0.0 | -0.5 | -1.0 | | | | | |
| _ | mange on p | nevious ii | ioniii | | | | | ILKC | ILKM | | | | | |
| 2002 Oct Nov | | | | | | | | -0.2 1.5 | -0.7 -1.1 | | | | | |
| Dec | | | | | | | | -2.6 | -1.4 | | | | | |
| 2003 Jan | | | | | | | | 2.0 | 1.6 | | | | | |
| Feb Mar | | | | | | | | 0.3 -0.5 | -0.1 -0.8 | | | | | |
| Apr | | | | | | | | -0.3 -0.2 | 1.0 | | | | | |
| May | | | | | | | | -0.7 | -0.8 | | | | | |
| Jun | | | | | | | | -0.8 | 1.7 | | | | | |
| Jul Aug | | | | | | | | 2.9 -3.5 | -2.4 -0.4 | | | | | |
| Sep | | | | | | | | 0.2 | 0.5 | | | | | |
| Oct | | | | | | | | | 1.4 | | | | | |

GDP = Gross Domestic Product at constant market prices
PFC = Private Final Consumption at constant market prices
GFC = Government Final Consumption at constant market prices
GFCF = Gross Fixed Capital Formation at constant market prices
ChgStk = Change in Stocks at constant market prices
Exports = Exports of goods and services
Imports = Imports of goods and services
IoP = Industrial Production

Sales = Retail Sales volume

CPI = Consumer Prices measurement not uniform among countries

PPI = Producer Prices (manufacturing)

Earnings = Average Earnings (manufacturing), deficitions of coverage and treatment vary among countries

Empl = Total Employment not seasonally adjusted

Unempl = Standardised Unemployment rates: percentage of total workforce

Source: OECD - SNA9:

Source: OECD - SNA9:

France

| | | | Со | ntribution t | o change in | GDP | | | | | | | | |
|---|---|---|------------------------------------|--|--|---|---|--|------------------------------------|---|--|---|---|---|
| | GDP | PFC | GFC | GFCF | ChgStk | Exports | less Imports | loP | Sales | CPI | PPI ¹ | Earnings | Empl ² | Unempl |
| Percentage of | change on a | a year earl | ier | | | | | | | | | | | |
| 1998 1999 2000 2001 2002 | ILFZ 3.6 3.2 4.2 2.1 1.2 | HUBK 2.0 1.9 1.6 1.6 0.8 | HUBL - 0.3 0.7 0.6 0.9 | HUBM 1.3 1.6 1.7 0.4 –0.3 | HUBN 0.8 -0.2 0.5 -0.7 -0.3 | HUBO 2.1 1.1 3.6 0.6 0.4 | HUBP 2.6 1.5 3.8 0.4 0.2 | 1LGT 5.2 1.9 3.6 1.2 –1.0 | 1LHN 2.6 2.4 0.5 -0.2 | HXAA 0.7 0.5 1.7 1.6 1.9 | ILAG -0.9 -1.6 2.0 1.2 -0.2 | ILAP 2.2 2.5 5.2 4.2 3.6 | ILIH 1.9 2.2 2.8 1.7 0.5 | GABC 11.4 10.7 9.3 8.5 8.8 |
| 2000 Q2 Q3 Q4 | 4.5 3.9 3.8 | 1.7 1.4 1.2 | 0.7 0.8 0.7 | 1.8 1.5 1.6 | 0.2 1.0 0.5 | 3.9 3.4 3.8 | 3.7 4.2 3.9 | 3.9 3.8 2.7 | 1.4 0.1 –1.3 | 1.5 1.9 1.9 | 2.0 2.7 2.4 | 5.4 5.2 5.0 | 2.9 2.8 2.7 | 9.4 9.1 8.8 |
| 2001 Q1 Q2 Q3 Q4 | 3.1 2.2 2.3 0.7 | 1.5 1.5 1.7 1.5 | 0.6 0.6 0.8 0.6 | 1.0 0.5 0.4 –0.2 | -0.3 -0.1 -1.0 -1.3 | 2.7 0.8 0.1 –1.4 | 2.4 1.0 -0.3 -1.5 | 3.1 2.0 1.6 –1.8 | 1.1 -0.4 -0.7 -0.8 | 1.2 2.0 1.8 1.4 | 2.4 1.7 0.7 | 4.3 4.2 4.2 4.1 | 2.3 1.9 1.3 1.0 | 8.6 8.5 8.5 8.5 |
| 2002 Q1 Q2 Q3 Q4 | 0.8 1.5 1.3 1.3 | 0.9 0.9 0.7 0.8 | 0.9 1.0 0.9 0.9 | -0.3 -0.1 -0.3 -0.4 | -0.4 -0.8 -0.1 -0.2 | -0.8 0.6 0.7 1.0 | -0.6 0.1 0.5 0.8 | -1.7 -0.6 -1.7 -0.1 | -1.6 -0.6 1.0 1.0 | 2.2 1.7 1.8 2.1 | -0.7 -0.5 0.1 0.2 | 3.9 3.9 3.5 3.4 | 0.6 0.5 0.5 0.3 | 8.6 8.7 8.9 9.0 |
| 2003 Q1 Q2 Q3 | 0.7 -0.3 -0.2 | 1.0 0.8 0.8 | 0.7 0.4 0.4 | -0.4 -0.3 -0.1 | -0.2 -0.1 -0.7 | -0.1 -1.0 -0.7 | 0.4 0.1 -0.1 | 0.3 -2.0 -1.9 | -0.8 | 2.4 1.9 2.0 | 0.6 0.6 — | 2.9 2.6 3.0 | -0.1 | 9.2 9.3 9.5 |
| 2002 Oct Nov Dec | | | | | | | | -0.6 0.8 -0.3 | 3.0 2.1 –1.8 | 1.8 2.2 2.3 | 0.2 0.1 0.3 | | | 9.0 9.0 9.1 |
| 2003 Jan Feb Mar Apr May Jun | | | | | | | | 0.3 1.1 -0.5 -1.5 -2.8 -1.9 | 3.0 -0.7 -4.6 1.8 -2.0 | 1.9 2.6 2.6 2.0 1.8 2.0 | 0.4 0.7 0.7 0.8 0.6 0.6 | | | 9.1 9.2 9.2 9.3 9.3 |
| Jul Aug Sep Oct | | | | | | | | -1.5 -2.4 -1.8 | | 1.9 1.9 2.1 2.2 | -0.1 -0.1 | | | 9.4 9.5 9.5 9.6 |
| Percentage of | change on p | orevious q | uarter HUBR | HUBS | HUBT | HUBU | HUBV | ILHD | ILHX | | | | ILIR | |
| 2000 Q2 Q3 Q4 | 0.9 0.4 1.3 | 0.3 0.2 0.3 | 0.2 0.1 0.2 | 0.4 0.1 0.5 | -0.1 0.3 0.2 | 1.2 0.6 1.0 | 1.0 1.0 0.8 | 0.8 1.2 1.1 | -0.7 -0.4 | | | | 0.7 0.6 0.6 | |
| 2001 Q1 Q2 Q3 Q4 | 0.5 - 0.4 -0.3 | 0.7 0.3 0.4 - | 0.1 0.1 0.3 0.1 | 0.1 -0.2 - -0.1 | -0.7 0.1 -0.5 -0.1 | -0.1 -0.7 -0.1 -0.6 | -0.5 -0.3 -0.3 -0.4 | -0.3 0.8 -2.3 | 2.3 -2.2 -0.3 -0.5 | | | | 0.4 0.3 0.1 0.3 | |
| 2002 Q1 Q2 Q3 Q4 | 0.7 0.7 0.2 –0.3 | 0.1 0.3 0.2 0.1 | 0.3 0.3 0.1 0.1 | - -0.2 -0.2 | 0.2 -0.3 0.1 -0.2 | 0.5 0.7 - -0.2 | 0.4 0.3 0.2 -0.1 | 0.1 0.8 -0.3 -0.7 | 1.4 -1.2 1.3 -0.5 | | | | - 0.1 0.1 0.1 | |
| 2003 Q1 Q2 Q3 | 0.1 -0.3 0.4 | 0.4 - 0.3 | 0.1 - 0.2 | 0.1 0.1 | 0.1 -0.2 -0.4 | -0.6 -0.2 0.3 | 0.1 - | 0.4 -1.5 -0.1 | -0.4 | | | | -0.3 - | |
| Percentage of | change on p | orevious n | nonth | | | | | ILKD | ILKN | | | | | |
| 2002 Oct Nov Dec | | | | | | | | -0.9 1.0 -1.1 | 2.8 - -2.7 | | | | | |
| 2003 Jan Feb Mar Apr May Jun | | | | | | | | 0.8 0.5 -0.7 -0.7 -1.3 0.7 | 4.1 -1.9 -3.9 4.6 -2.3 | | | | | |
| Jul Aug Sep Oct | | | | | | | | 0.2 -0.6 0.4 | | | | | | |

GDP = Gross Domestic Product at constant market prices PFC = Private Final Consumption at constant market prices

GFC = Grivate Final Consumption at constant market prices
GFCF = Gross Fixed Capital Formation at constant market prices
GFCF = Gross Fixed Capital Formation at constant market prices
ChgStk = Change in Stocks at constant market prices
Exports = Exports of goods and services
Imports = Imports of goods and services

¹ Producer prices in manufactured goods 2 Excludes members of armed foces

Sales = Retail Sales volume

CPI = Consumer Prices, measurement not uniform among countries

PPI = Producer Prices (manufacturing)

Earnings = Average Wage Earnings (manufacturing), definitions of coverage
and treatment vary among countries

Empl = Total Employment not seasonally adjusted

Unempl = Standardised Unemployment rates: percentage of total workforce

IoP=Index of Production

Source: OECD - SNA93

4 Italy

| | | | Co | ntribution to | o change in | GDP | | | | | | | | |
|---|--|--|--|----------------------------------|---|--|---|--|--|---|--|---|---|--|
| | GDP | PFC | GFC | GFCF | ChgStk | Exports | less Imports | loP | Sales | CPI | PPI | Earnings | Empl | Unempl |
| 1998 1999 2000 2001 2002 | change on a ILGA 1.8 1.7 3.3 1.7 0.4 | year earl HUCI 1.9 1.6 1.7 0.7 0.3 | ier HUCJ - 0.2 0.3 0.6 0.3 | HUCK 0.7 0.9 1.5 0.5 | HUCL 0.3 0.3 -1.1 -0.1 0.4 | HUCM 1.0 - 3.3 0.3 -0.3 | HUCN 2.1 1.4 2.4 0.3 0.4 | ILGU 1.4 -0.2 4.2 -1.1 -1.4 | ILHO 1.0 0.8 -0.8 -0.1 -0.6 | HYAA 2.0 1.7 2.5 2.7 2.5 | ILAH 0.1 -0.3 6.1 1.9 0.2 | ILAQ 2.8 2.3 2.0 1.8 2.8 | ILII 1.1 1.2 1.9 2.0 1.4 | GABE 11.7 11.3 10.4 9.4 9.0 |
| 2000 Q2 Q3 Q4 | 3.3 3.3 3.0 | 1.7 1.8 1.7 | 0.2 0.3 0.3 | 1.6 1.6 1.0 | -0.4 -1.2 -1.3 | 3.0 3.6 2.6 | 2.7 2.8 1.4 | 5.7 3.5 3.8 | - 1.3 -2.5 | 2.6 2.6 2.6 | 6.2 6.7 6.6 | 2.5 2.0 1.9 | 1.6 2.1 2.8 | 10.5 10.3 9.9 |
| 2001 Q1 Q2 Q3 Q4 | 2.7 2.1 1.5 0.7 | 1.5 0.9 0.3 –0.1 | 0.6 0.6 0.6 0.7 | 0.9 0.6 0.2 0.3 | -0.4 -0.5 0.5 0.1 | 1.6 1.3 -0.7 -0.9 | 1.4 0.9 -0.6 -0.7 | 2.9 -0.4 -1.9 -5.0 | 1.6 -0.3 -1.0 -0.6 | 2.9 3.0 2.8 2.5 | 4.7 3.2 1.1 –1.1 | 1.8 1.2 2.2 2.3 | 3.2 2.0 1.8 1.2 | 9.7 9.5 9.4 9.2 |
| 2002 Q1 Q2 Q3 Q4 | -0.1 0.3 0.4 0.9 | -0.5 -0.1 0.5 1.2 | 0.4 0.3 0.3 0.2 | -0.4 -0.3 0.2 1.1 | 1.4 0.7 - -0.5 | -2.8 -0.7 1.1 1.2 | -1.7 -0.3 1.5 2.3 | -3.8 -2.1 -0.3 0.9 | -0.3 -1.0 -1.3 | 2.4 2.2 2.4 2.7 | -1.0 -0.6 0.5 1.7 | 2.4 3.4 2.4 2.8 | 1.7 1.9 1.3 0.9 | 9.1 9.0 9.0 8.9 |
| 2003 Q1 Q2 Q3 | 0.7 0.2 0.5 | 1.4 1.2 | 0.3 0.2 | 0.2 -0.2 | -0.6 0.6 | 0.3 -0.8 | 0.9 0.7 | -0.3 -1.4 -0.3 | -0.6 0.7 -1.3 | 2.7 2.7 2.8 | 2.6 1.7 1.3 | 2.5 1.8 3.2 | 0.8 1.3 0.9 | 8.9 8.6 |
| 2002 Oct Nov Dec | | | | | | | | 0.1 1.9 0.5 | - - - | 2.7 2.8 2.8 | 1.6 1.5 2.0 | 2.9 2.8 2.8 | | 8.9 8.9 9.0 |
| 2003 Jan Feb Mar Apr May Jun | | | | | | | | 0.4 -0.5 -0.8 0.3 -2.9 -1.7 | -1.0 -1.0 2.9 1.0 -1.9 | 2.8 2.6 2.7 2.7 2.7 2.7 | 2.4 2.8 2.8 2.0 1.5 1.4 | 2.9 3.0 1.7 1.8 1.8 | | 9.0 8.9 8.8 8.7 8.6 8.6 |
| Jul Aug Sep Oct | | | | | | | | -0.7 0.7 -0.8 | -1.0 -2.9 - | 2.7 2.8 2.8 2.6 | 1.3 1.3 1.0 0.6 | 3.2 3.2 3.2 2.7 | | 8.5 |
| Percentage of 2000 Q2 Q3 Q4 | change on p ILGK 0.5 0.6 0.7 | orevious q HUCO 0.5 0.4 0.2 | HUCP 0.1 0.1 0.1 | HUCQ 0.3 0.2 -0.2 | HUCR 0.3 -1.1 0.7 | HUCS -0.6 1.3 -0.1 | HUCT - 0.3 - | ILHE 1.8 - 1.7 | ILHY 2.3 0.6 -1.3 | | | | ILIS 1.6 1.9 0.6 | |
| 2001 Q1 Q2 Q3 Q4 | 0.7 - - -0.1 | 0.4 - -0.3 -0.2 | 0.3 0.1 0.1 0.2 | 0.5 - -0.2 -0.1 | -0.2 0.2 -0.1 0.3 | 1.0 -0.8 -0.7 -0.3 | 1.1 -0.5 -1.2 -0.1 | -0.5 -1.5 -1.5 -1.6 | 0.3 - -1.0 | | | | -0.8 0.4 1.7 - | |
| 2002 Q1 Q2 Q3 Q4 | - 0.3 0.2 0.4 | - 0.4 0.3 0.6 | - - - | -0.2 - 0.4 0.8 | 1.1 -0.6 -0.8 -0.2 | -0.9 1.4 1.0 -0.2 | 1.0 0.6 0.7 | 0.8 0.3 0.3 –0.5 | 0.3 -0.3 -0.3 0.3 | | | | -0.4 0.6 1.1 -0.4 | |
| 2003 Q1 Q2 Q3 | -0.2 -0.2 0.5 | 0.1 0.2 | 0.2 - | -1.1 -0.3 | 1.0 0.6 | -1.8 0.2 | -1.4 0.8 | -0.4 -0.9 1.4 | -0.3 1.0 -2.3 | | | | -0.5 1.0 0.7 | |
| Percentage of | change on p | revious n | nonth | | | | | ILKE | ILKO | | | | | |
| 2002 Oct Nov Dec | | | | | | | | -0.7 0.5 -0.5 | 1.0 | | | | | |
| 2003 Jan Feb Mar Apr May Jun | | | | | | | | -0.2 0.1 -0.3 - -1.3 0.7 | -1.0 2.0 -1.9 3.9 -1.9 -2.9 | | | | | |
| Jul Aug Sep Oct | | | | | | | | 1.6 0.1 –0.8 | 1.0 -2.0 2.0 | | | | | |

GDP = Gross Domestic Product at constant market prices PFC = Private Final Consumption at constant market prices GFC = Government Final Consumption at constant market prices GFCF = Gross Fixed Capital Formation at constant market prices

ChgStk = Change in Stocks at constant market prices
Exports = Exports of goods and services
Imports = Imports of goods and services
IoP = Industrial Production

Sales = Retail Sales volume

Sales = Retail sales volume
CPI = Consumer Prices, measurement not uniform among countries
PPI = Producer Prices (manufacturing)
Earnings = Average Wage Earnings (manufacturing), definitions of coverage
and treatment vary among countries

Empl = Total Employment not seasonally adjusted Unempl = Standardised Unemployment not seasonally adjusted

Source: OECD - SNA93

5 USA

| | | | Cor | ntribution to | change in | GDP | | | | | | | | |
|-----------------|------------|-------------|------------|---------------|-------------|--------------|-----------------|--------------|-------------|------------|-------------|------------|-------------------|------------|
| | GDP | PFC | GFC | GFCF | ChgStk | Exports | less Imports | loP | Sales | CPI | PPI | Earnings | Empl ¹ | Unempl |
| Percentage ch | hange on a | year earlie | | | | | | | | | | | | |
| 1000 | ILGC | HUDG | HUDH | HUDI | HUDJ | HUDK | HUDL | ILGW | ILHQ | ILAA | ILAJ | ILAS | ILIK | GADO |
| 1998 1999 | 4.3 4.1 | 3.2 3.3 | 0.2 0.4 | 2.0 1.6 | 0.2 -0.2 | 0.3 0.4 | 1.6 1.6 | 6.0 4.4 | 7.1 8.8 | 1.6 2.1 | -1.1 1.8 | 2.4 2.9 | 1.5 1.5 | 4.5 4.2 |
| 2000 | 3.8 | 2.9 | 0.4 | 1.2 | _ | 1.1 | 2.0 | 4.4 | 5.5 | 3.4 | 4.1 | 3.4 | 2.5 | 4.0 |
| 2001 | 0.3 | 1.7 | 0.5 | -0.6 | -1.4 | -0.7 | -0.5 | -3.4 | 4.8 | 2.8 | 0.7 | 3.3 | _ | 4.8 |
| 2002 | 2.4 | 2.2 | 0.6 | -0.4 | 0.7 | -0.2 | 0.6 | -0.6 | 5.3 | 1.5 | -0.6 | 3.3 | -0.3 | 5.8 |
| 2000 Q2 | 4.9 | 3.0 | 0.6 | 1.4 | 0.7 | 1.3 | 2.2 | 5.8 | 5.8 | 3.3 | 4.4 | 3.3 | 2.8 | 4.0 |
| Q3 | 3.7 | 2.9 | 0.4 | 1.0 | 0.2 | 1.4 | 2.2 | 4.3 | 5.2 | 3.5 | 3.9 | 3.2 | 2.3 | 4.1 |
| Q4 | 2.3 | 2.4 | 0.3 | 0.7 | -0.4 | 0.9 | 1.7 | 2.3 | 3.5 | 3.4 | 3.3 | 3.2 | 2.3 | 3.9 |
| 2001 Q1 | 1.5 | 1.9 | 0.5 | 0.1 | -0.8 | 0.4 | 0.8 | -0.4 | 2.9 | 3.4 | 2.1 | 2.9 | 0.8 | 4.2 |
| Q2 | -0.1 | 1.6 | 0.4 | -0.5 | -1.6 | -0.4 | -0.2 | -3.3 | 4.5 | 3.4 | 2.1 | 3.2 | 0.1 | 4.5 |
| Q3 | -0.4 | 1.2 | 0.5 | -0.9 | -1.4 | -1.3 | -1.2 | -4.5 | 3.8 | 2.7 | 0.6 | 3.4 | | 4.8 |
| Q4 | 0.1 | 1.9 | 0.7 | -1.0 | -1.7 | -1.4 | -1.4 | -5.3 | 7.9 | 1.8 | -1.5 | 3.7 | -0.8 | 5.6 |
| 2002 Q1 | 1.4 | 2.0 | 0.7 | -0.9 | _ | -1.1 | -0.7 | -3.3 | 5.9 | 1.2 | -1.8 | 3.7 | -1.2 | 5.6 |
| Q2 | 2.2 | 2.1 | 0.7 | -0.6 | 0.7 | -0.4 | 0.4 | -1.0 | 5.5 | 1.3 | -1.7 | 3.4 | -0.5 | 5.8 |
| Q3 | 3.3 | 2.6 | 0.6 | -0.2 | 0.9 | 0.3 | 1.1 | 0.6 | 7.0 | 1.5 | -0.6 | 3.0 | 0.1 | 5.8 |
| Q4 | 2.9 | 1.9 | 0.6 | 0.2 | 1.3 | 0.4 | 1.6 | 1.4 | 3.0 | 2.2 | 1.6 | 3.3 | 0.3 | 5.9 |
| 2003 Q1 | 2.0 | 1.7 | 0.5 | 0.1 | 0.4 | 0.3 | 1.0 | 1.1 | 4.4 | 2.9 | 3.9 | 3.5 | 1.0 | 5.8 |
| Q2 | 2.5 | 2.0 | 0.6 | 0.5 | -0.2 | -0.1 | 0.5 | -1.0 | 6.0 | 2.1 | 1.9 | 3.3 | 0.9 | 6.2 |
| Q3 | 3.5 | 2.4 | 0.5 | 1.3 | -0.3 | 0.1 | 0.4 | -0.3 | 7.2 | 2.2 | 2.1 | 3.2 | 0.5 | 6.1 |
| 2002 Oct | | | | | | | | 1.1 | 0.3 | 2.1 | 1.5 | 3.3 | 0.5 | 5.8 |
| Nov | | | | | | | | 1.1 | 3.5 | 2.1 | 1.5 | 3.3 | 0.3 | 5.9 |
| Dec | | | | | | | | 1.4 | 5.3 | 2.3 | 1.9 | 3.3 | 0.3 | 6.0 |
| 0000 1 | | | | | | | | | | | | | | |
| 2003 Jan Feb | | | | | | | | 1.3 1.5 | 5.5 2.6 | 2.6 3.0 | 3.0 4.2 | 3.3 4.1 | 1.3 0.7 | 5.7 5.8 |
| Mar | | | | | | | | 0.4 | 5.2 | 3.1 | 4.5 | 3.3 | 0.7 | 5.8 |
| Apr | | | | | | | | -0.6 | 4.9 | 2.2 | 1.9 | 3.3 | 1.1 | 6.0 |
| May | | | | | | | | -0.9 | 6.9 | 2.0 | 1.7 | 3.3 | 0.7 | 6.1 |
| Jun | | | | | | | | -1.5 | 6.3 | 2.1 | 2.0 | 3.3 | 1.0 | 6.4 |
| Jul | | | | | | | | -0.6 | 6.6 | 2.1 | 2.2 | 3.3 | 0.7 | 6.2 |
| Aug | | | | | | | | -0.5 | 7.0 | 2.1 | 2.5 | 3.2 | 0.6 | 6.1 |
| Sep | | | | | | | | 0.2 | 8.2 | 2.3 | 1.6 | 3.2 | 0.3 | 6.1 |
| Oct | | | | | | | | 0.6 | 7.9 | 2.0 | 1.9 | 2.4 | 8.0 | 6.0 |
| Percentage ch | hange on p | revious qu | ıarter | | | | | | | | | | | |
| _ | ILGM | HUDM | HUDN | HUDO | HUDP | HUDQ | HUDR | ILHG | ILIA | | | | ILIU | |
| 2000 Q2 | 1.2 | 0.5 | 0.3 | 0.2 | 0.5 | 0.4 | 0.7 | 1.6 | -0.4 | | | | 1.2 | |
| Q3 Q4 | 0.1 0.3 | 0.6 0.3 | 0.1 | -0.1 | -0.3 - | 0.3 -0.1 | 0.5 -0.1 | -0.2 -0.3 | 1.3 0.4 | | | | 0.1 0.3 | |
| Q4 | 0.3 | 0.3 | 0.1 | -0.1 | _ | -0.1 | -0.1 | -0.3 | 0.4 | | | | 0.3 | |
| 2001 Q1 | -0.2 | 0.4 | 0.2 | - | -0.9 | -0.2 | -0.3 | -1.5 | 1.6 | | | | -0.7 | |
| Q2 | -0.4 | 0.2 | 0.1 | -0.4 | -0.3 | -0.4 | -0.3 | -1.3 | 1.2 | | | | 0.5 | |
| Q3 Q4 | -0.1 | 0.2 1.0 | 0.1 0.3 | -0.4 -0.2 | -0.4 | -0.6 -0.3 | -0.5 | -1.4 | 0.5 | | | | -0.5 | |
| Q4 | 0.7 | 1.0 | 0.3 | -0.2 | -0.4 | -0.3 | -0.2 | -1.1 | 4.3 | | | | -0.5 | |
| 2002 Q1 | 1.2 | 0.5 | 0.1 | 0.1 | 0.8 | 0.1 | 0.3 | 0.5 | -0.2 | | | | -1.1 | |
| Q2 | 0.3 | 0.3 | 0.1 | -0.1 | 0.4 | 0.4 | 0.8 | 1.1 | 0.8 | | | | 1.1 | |
| Q3 | 1.0 | 0.7 | 0.1 | _ | 0.1 | 0.1 | 0.1 | 0.2 | 2.0 | | | | 0.6 | |
| Q4 | 0.3 | 0.3 | 0.2 | 0.2 | 0.1 | -0.2 | 0.3 | -0.4 | 0.4 | | | | -0.4 | |
| 2003 Q1 | 0.4 | 0.3 | _ | _ | -0.2 | _ | -0.3 | 0.2 | 1.1 | | | | -0.4 | |
| Q2 | 8.0 | 0.7 | 0.3 | 0.3 | -0.2 | _ | 0.3 | -1.0 | 2.4 | | | | 1.0 | |
| Q3 | 2.0 | 1.1 | _ | 0.7 | - | 0.3 | 0.1 | 1.0 | 3.2 | | | | 0.3 | |
| Percentage ch | hange on p | revious m | onth | | | | | ILKG | ILKQ | | | | ILLA | |
| 2002 Oct | | | | | | | | -0.2 | 0.2 | | | | 0.1 | |
| Nov | | | | | | | | 0.1 | 0.8 | | | | -0.6 | |
| Dec | | | | | | | | -0.5 | 1.8 | | | | - | |
| 0000 167 | | | | | | | | 0.5 | 0.4 | | | | 0.5 | |
| 2003 Jan Feb | | | | | | | | 0.5 0.4 | 0.4 –2.1 | | | | -0.5 0.4 | |
| Mar | | | | | | | | -0.7 | 2.2 | | | | 0.4 | |
| Apr | | | | | | | | -0.6 | 0.5 | | | | 0.5 | |
| May | | | | | | | | -0.1 | 1.2 | | | | 0.1 | |
| Jun | | | | | | | | - | 1.1 | | | | 0.7 | |
| Jul | | | | | | | | 0.7 | 1.7 | | | | _ | |
| Aug | | | | | | | | 0.7 | 0.8 | | | | -0.3 | |
| Sep | | | | | | | | 0.5 | -0.4 | | | | -0.3 | |
| Oct | | | | | | | | 0.2 | -0.1 | | | | 0.6 | |

GDP = Gross Domestic Product at constant market prices

PFC = Private Final Consumption at constant market prices
GFC = Government Final Consumption at constant market prices
GFCF = Gross Fixed Capital Formation at constant market prices
ChgStk = Change in Stocks at constant market prices
Exports = Exports of goods and services

Imports = Imports of goods and services
IoP = Industrial Production

Sales = Retail Sales volume

CPI = Consumer Prices, measurement not uniform among countries

PPI = Producer Prices (manufacturing)

Earnings = Average Earnings (manufacturing), definitions of coverage and treatment vary among countries

Empl = Total Employment not seasonally adjusted

Unempl = Standardised Unemployment rates: percentage of total workforce Source: OECD - SNA93

¹ Excludes members of armed forces

Japan

| | | | Со | ntribution t | o change in | GDP | | | | | | | | |
|---|--|----------------------------|---------------------------------|---|--|---|--|--|--|--|--|--|--|---|
| | GDP | PFC | GFC | GFCF | ChgStk | Exports | less Imports | loP ¹ | Sales | CPI | PPI | Earnings ² | Empl | Unempl |
| Percentage of | | | | | | | | | | | | | | |
| 1998 1999 2000 2001 2002 | ILGD -1.2 0.2 2.7 0.4 0.2 | 0.1 0.5 1.0 0.7 | 0.3 0.7 0.7 0.4 0.4 | HUCW -1.1 -0.2 0.7 -0.3 -1.3 | HUCX -0.6 -0.3 0.3 - -0.4 | HUCY -0.2 0.1 1.3 -0.7 0.9 | HUCZ -0.6 0.2 0.7 - 0.2 | ILGX -5.9 0.6 5.1 -6.2 -1.1 | ILHR -6.0 -2.6 -1.1 -1.2 -3.1 | 0.7 -0.3 -0.7 -0.7 -1.0 | ILAK -1.5 -1.5 0.1 -2.3 -2.0 | ILAT -0.9 -0.7 1.7 - -1.0 | ILIL -0.6 -0.8 -0.3 -0.5 -1.3 | GADP 4.1 4.7 4.7 5.0 5.4 |
| 2000 Q2 Q3 Q4 | 1.9 2.8 5.1 | 0.1 0.1 1.5 | 0.9 0.8 0.8 | 0.2 0.9 1.8 | 0.1 0.5 0.6 | 1.4 1.3 1.2 | 0.8 0.8 0.8 | 6.3 5.4 5.1 | -1.5 -0.4 -0.4 | -0.7 -0.6 -0.8 | 0.4 - -0.7 | 2.1 1.7 1.1 | -0.4 -0.4 0.2 | 4.7 4.7 4.7 |
| 2001 Q1 Q2 Q3 Q4 | 3.5 1.0 -0.6 -2.4 | 1.1 1.0 0.9 0.7 | 0.7 0.4 0.3 0.4 | 1.3 0.3 -0.5 -2.3 | 1.0 0.1 -0.4 -0.6 | 0.2 -0.6 -1.0 -1.2 | 0.7 0.2 -0.2 -0.6 | 1.5 -4.4 -9.1 -12.3 | 2.3 -1.1 -2.6 -3.4 | -0.5 -0.7 -0.8 -1.0 | -1.9 -2.0 -2.5 -2.8 | 0.3 0.5 -0.2 -0.6 | 0.5 -0.4 -0.8 -1.3 | 4.7 4.9 5.1 5.4 |
| 2002 Q1 Q2 Q3 Q4 | -2.8 -0.5 1.5 2.5 | 0.5 0.4 1.2 0.8 | 0.4 0.4 0.5 0.2 | -2.3 -1.7 -1.2 0.2 | -1.6 -0.5 0.3 0.3 | -0.3 0.8 1.1 1.8 | -0.5 - 0.5 0.7 | -9.1 -3.4 2.9 6.0 | -4.4 -2.6 -2.7 -2.7 | -1.4 -0.9 -0.8 -0.5 | -2.6 -2.2 -2.2 -1.3 | -1.5 -0.8 -2.2 0.1 | -1.5 -1.6 -1.0 -1.1 | 5.3 5.4 5.4 5.4 |
| 2003 Q1 Q2 Q3 | 2.9 3.0 2.3 | 0.6 0.8 0.1 | 0.2 0.2 0.1 | 0.5 1.3 1.5 | 0.9 0.3 -0.1 | 1.3 0.7 1.1 | 0.7 0.3 0.2 | 5.7 2.0 1.0 | -1.2 -2.3 -2.0 | -0.2 -0.3 -0.2 | -0.9 -1.1 -0.8 | 1.8 2.6 1.8 | -0.8 0.1 -0.1 | 5.4 5.4 5.2 |
| 2002 Oct Nov Dec | | | | | | | | 5.4 6.9 5.5 | -2.3 -2.3 -3.5 | -0.9 -0.4 -0.3 | -1.4 -1.2 -1.3 | 1.0 0.5 –1.3 | -0.8 -1.3 -1.1 | 5.5 5.3 5.5 |
| 2003 Jan Feb Mar Apr May Jun | | | | | | | | 8.2 4.6 4.3 3.3 1.3 | -2.3 - -1.2 -3.5 -2.3 -1.2 | -0.4 -0.2 -0.1 -0.1 -0.2 -0.4 | -1.0 -0.9 -0.8 -1.0 -1.1 -1.3 | 1.2 1.7 2.5 1.5 2.2 3.9 | -1.0 -0.9 -0.5 -0.4 0.1 0.6 | 5.5 5.2 5.4 5.4 5.4 5.3 |
| Jul Aug Sep Oct | | | | | | | | 0.3 -0.2 2.9 | -2.4 -2.3 -1.2 1.2 | -0.2 -0.3 -0.2 | -0.9 -0.7 -0.8 -0.9 | 3.6 0.7 1.2 | 0.1 -0.2 -0.1 -0.3 | 5.3 5.1 5.1 5.2 |
| Percentage of | hange on p | orevious q HUDA | uarter HUDB | HUDC | HUDD | HUDE | HUDF | ILHH | ILIB | | | | ILIV | |
| 2000 Q2 Q3 Q4 | 0.9 0.7 1.3 | 0.1 0.1 0.4 | 0.4 0.2 0.1 | 0.1 0.4 0.9 | 0.3 0.1 0.1 | 0.3 0.1 0.1 | 0.3 0.2 0.3 | 2.6 0.7 1.1 | 0.4 0.8 -0.7 | | | | 2.3 | |
| 2001 Q1 Q2 Q3 Q4 | 0.6 -1.6 -0.8 -0.5 | 0.5 - -0.1 0.3 | 0.1 0.1 0.2 | -0.1 -0.8 -0.4 -1.0 | 0.5 -0.6 -0.4 -0.1 | -0.4 -0.4 -0.3 -0.1 | -0.1 -0.2 -0.2 -0.2 | -2.9 -3.3 -4.3 -2.5 | 1.9 -2.9 -0.8 -1.5 | | | | -1.8 1.4 -0.4 -0.5 | |
| 2002 Q1 Q2 Q3 Q4 | 0.1 0.7 1.2 0.4 | 0.3 -0.1 0.7 -0.1 | 0.1 - 0.2 - | -0.2 -0.2 0.2 0.4 | -0.5 0.5 0.4 -0.2 | 0.5 0.8 - 0.5 | 0.1 0.3 0.2 0.1 | 0.6 2.9 2.0 0.4 | 0.8 -1.2 -0.8 -1.6 | | | | -2.0 1.3 0.2 -0.6 | |
| 2003 Q1 Q2 Q3 | 0.5 0.9 0.5 | 0.1 0.1 - | 0.1 _ _ | 0.1 0.6 0.3 | 0.1 -0.1 - | 0.1 0.2 0.3 | 0.1 -0.1 0.1 | 0.4 -0.8 1.0 | 2.4 -2.3 -0.4 | | | | -1.7 2.3 - | |
| Percentage c | hange on p | orevious m | nonth | | | | | ILKH | ILKR | | | | ILLB | |
| 2002 Oct Nov Dec | | | | | | | | 0.1 -0.2 -0.2 | -1.2 1.2 -3.5 | | | | -0.1 -0.9 | |
| 2003 Jan Feb Mar Apr May Jun | | | | | | | | 1.9 -2.0 0.1 -1.2 2.1 -1.1 | 3.7 2.4 -2.3 -2.4 1.2 | | | | -1.3 -0.2 1.1 0.7 0.8 0.8 | |
| Jul Aug Sep Oct | | | | | | | | -0.2 -0.1 3.7 | -2.4 2.4 - 1.2 | | | | -0.5 -0.3 -0.2 -0.2 | |

GDP = Gross Domestic Product at constant market prices PFC = Private Final Consumption at constant market prices

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PPI = Producer Prices (manufacturing)

Earnings = Average Earnings (manufacturing), definitions of coverage and treatment vary among countries

Empl = Total Employment not seasonally adjusted

Unempl = Standardised Unemployment rates: percentage of total workforce

IoP=Index of Production

Source: OECD - SNA93

¹ Not adjusted for unequal number of working days in a month 2 Figures monthly and seasonally adjusted

7 World Trade in goods¹

| | Expor | t of manufacti | ures | Impor | t of manufact | ures | Ex | port of go | ods | Im | port of go | ods | Total trac |
|--|---|--|--|---|--|--|---|---|--|---|---|--|---|
| | Total | OECD | Other | Total | OECD | Other | Total | OECD | Other | Total | OECD | Other | manufact- ures |
| Percentage of 1992 1993 1994 1995 1996 | change on a ILIZ 4.3 3.7 10.3 9.4 6.8 | year earlier ILJA 3.3 2.1 9.9 10.0 6.4 | ILJB 9.4 12.1 17.3 11.4 6.9 | ILJC 5.6 3.8 11.9 10.8 8.0 | ILJD 4.2 0.8 10.9 9.1 7.2 | ILJE 8.7 11.0 10.7 12.4 6.6 | ILJF 4.5 4.1 11.4 10.3 6.6 | ILJG 3.6 2.2 9.3 9.4 6.5 | ILJH 6.3 8.1 12.9 9.2 7.6 | ILJI 5.3 3.3 10.9 10.0 7.1 | ILJJ 4.2 0.7 12.2 10.3 8.0 | ILJK 9.8 12.8 11.3 12.0 7.9 | ILJL 5.0 4.0 11.7 10.5 7.3 |
| 1997 | 11.2 | 11.9 | 12.9 | 11.7 | 9.7 | 11.9 | 12.1 | 11.0 | 11.7 | 10.3 | 11.3 | 12.8 | 11.9 |
| 1998 | 4.8 | 6.4 | 1.3 | 6.2 | 8.2 | -1.1 | 5.2 | 5.8 | 2.3 | 5.6 | 9.6 | -2.4 | 5.7 |
| 1999 | 5.6 | 6.1 | 7.2 | 7.9 | 9.0 | -0.4 | 6.4 | 5.7 | 5.4 | 6.5 | 10.8 | -0.2 | 7.2 |
| 2000 | 12.6 | 12.6 | 20.6 | 14.8 | 12.2 | 13.9 | 14.4 | 12.1 | 13.9 | 12.6 | 14.0 | 17.3 | 14.6 |
| 2001 | –0.3 | -1.0 | –2.1 | –0.1 | –0.6 | 3.8 | -1.3 | –0.3 | –0.1 | 0.5 | –1.1 | 2.9 | –0.6 |
| 2002 | | 2.5 | 8.1 | | 2.4 | | 3.8 | 2.4 | | | 2.7 | | |
| 1996 Q3 | 7.1 | 6.7 | 7.3 | 8.1 | 7.7 | 4.6 | 6.9 | 6.6 | 8.3 | 6.8 | 8.8 | 6.3 | 7.5 |
| Q4 | 9.2 | 8.2 | 9.7 | 9.0 | 8.5 | 7.8 | 8.5 | 8.9 | 9.9 | 8.3 | 8.9 | 9.4 | 8.8 |
| 1997 Q1 | 8.8 | 8.0 | 12.3 | 9.3 | 7.3 | 10.8 | 9.0 | 7.6 | 11.7 | 8.3 | 8.2 | 12.2 | 9.2 |
| Q2 | 12.6 | 13.1 | 14.5 | 12.8 | 10.5 | 13.3 | 13.4 | 12.4 | 13.0 | 11.3 | 12.2 | 14.3 | 13.1 |
| Q3 | 12.6 | 14.0 | 13.6 | 12.9 | 10.5 | 13.3 | 13.9 | 12.9 | 11.9 | 11.3 | 12.4 | 14.0 | 13.4 |
| Q4 | 10.8 | 12.3 | 11.4 | 11.8 | 10.4 | 10.3 | 12.1 | 11.1 | 10.2 | 10.4 | 12.3 | 10.6 | 11.9 |
| 1998 Q1 | 9.5 | 11.2 | 6.4 | 10.0 | 11.0 | 4.1 | 10.1 | 10.8 | 6.0 | 9.0 | 12.6 | 3.6 | 10.0 |
| Q2 | 5.2 | 6.9 | 1.7 | 6.7 | 8.2 | 0.1 | 5.7 | 6.2 | 2.4 | 6.0 | 9.7 | -1.1 | 6.2 |
| Q3 | 2.5 | 4.2 | -1.3 | 4.2 | 6.9 | -3.5 | 2.9 | 3.3 | 0.4 | 4.0 | 8.0 | -5.2 | 3.6 |
| Q4 | 2.0 | 3.4 | -1.8 | 3.7 | 6.6 | -5.2 | 2.2 | 2.7 | 0.2 | 3.3 | 8.0 | -7.0 | 3.0 |
| 1999 Q1 | 1.7 | 2.9 | -1.2 | 3.9 | 6.2 | -4.2 | 2.0 | 1.9 | 1.3 | 3.4 | 7.7 | -6.3 | 3.0 |
| Q2 | 3.7 | 4.0 | 3.3 | 6.2 | 7.9 | -2.5 | 3.9 | 3.7 | 3.7 | 5.2 | 9.6 | -3.3 | 5.0 |
| Q3 | 7.2 | 7.2 | 11.0 | 9.1 | 9.7 | 0.4 | 8.0 | 7.1 | 7.3 | 7.3 | 11.6 | 1.9 | 8.6 |
| Q4 | 9.8 | 10.4 | 15.8 | 12.4 | 12.1 | 4.6 | 11.6 | 10.0 | 9.4 | 10.2 | 14.3 | 7.0 | 12.0 |
| 2000 Q1 | 13.5 | 13.5 | 22.5 | 14.7 | 13.3 | 10.2 | 15.5 | 13.4 | 13.7 | 12.5 | 15.0 | 13.7 | 15.1 |
| Q2 | 13.8 | 13.9 | 24.2 | 15.7 | 13.2 | 14.0 | 16.2 | 13.1 | 15.7 | 13.4 | 15.1 | 17.8 | 16.0 |
| Q3 | 12.7 | 12.6 | 20.3 | 16.1 | 12.9 | 16.9 | 14.3 | 12.0 | 14.6 | 13.9 | 14.7 | 20.3 | 15.2 |
| Q4 | 10.5 | 10.4 | 15.3 | 12.6 | 9.5 | 14.7 | 11.5 | 10.1 | 11.6 | 10.8 | 11.1 | 17.4 | 12.1 |
| 2001 Q1 | 6.2 | 6.6 | 6.6 | 7.3 | 5.7 | 9.5 | 6.6 | 6.3 | 5.9 | 6.7 | 6.2 | 10.8 | 7.0 |
| Q2 | 0.7 | 0.2 | -1.0 | 1.0 | 0.2 | 4.9 | -0.1 | 0.7 | 0.5 | 1.4 | -0.1 | 4.2 | 0.5 |
| Q3 | -3.0 | -4.4 | -6.3 | –3.7 | -3.6 | 1.0 | -4.8 | -3.0 | –2.9 | –2.5 | -4.5 | -1.2 | -4.2 |
| Q4 | -4.9 | -6.3 | -7.8 | –5.0 | -4.5 | –0.4 | -6.7 | -5.2 | –4.0 | –3.4 | -5.8 | -2.3 | -5.8 |
| 2002 Q1 Q2 Q3 Q4 | -2.8 3.3 6.6 | -4.8 2.6 6.4 6.0 | -1.3 6.1 11.7 15.7 | -2.6 2.8 6.1 | -3.2 1.9 5.0 6.0 | 1.9 4.6 6.3 | -4.0 3.4 7.6 8.3 | -3.9 2.4 5.5 5.5 | 0.4 5.7 9.6 | -1.9 2.6 5.3 | -3.8 2.1 5.8 6.6 | 1.0 5.0 7.2 | –3.3 3.1 6.9 |
| 2003 Q1 | | 4.0 | | | | | | | | | 6.1 | | |
| Percentage of 1996 Q3 Q4 | change on p ILJN 2.6 2.9 | revious quai ILJO 2.3 2.8 | rter ILJP 3.4 3.2 | ILJQ 2.7 2.6 | ILJR 2.5 2.0 | ILJS 2.1 3.7 | ILJT 2.5 2.9 | ILJU 2.3 3.0 | ILJV 3.4 2.9 | ILJW 2.4 2.5 | ILJX 2.8 2.1 | ILJY 2.3 3.9 | ILJZ 2.6 2.8 |
| 1997 Q1 | 1.7 | 2.0 | 3.8 | 2.8 | 1.2 | 4.2 | 2.4 | 1.1 | 3.2 | 2.0 | 2.0 | 4.6 | 2.6 |
| Q2 | 4.8 | 5.4 | 3.5 | 4.1 | 4.5 | 2.7 | 4.9 | 5.5 | 3.0 | 4.0 | 4.7 | 2.7 | 4.5 |
| Q3 | 2.7 | 3.1 | 2.5 | 2.8 | 2.5 | 2.1 | 3.0 | 2.8 | 2.3 | 2.3 | 3.0 | 2.1 | 2.9 |
| Q4 | 1.3 | 1.3 | 1.2 | 1.7 | 2.0 | 0.9 | 1.3 | 1.3 | 1.3 | 1.7 | 2.0 | 0.8 | 1.5 |
| 1998 Q1 | 0.4 | 1.0 | -0.9 | 1.1 | 1.7 | -1.6 | 0.6 | 0.9 | -0.7 | 0.8 | 2.3 | -2.0 | 0.9 |
| Q2 | 0.7 | 1.3 | -1.1 | 1.0 | 1.9 | -1.2 | 0.8 | 1.1 | -0.5 | 1.1 | 2.0 | -1.8 | 0.9 |
| Q3 | 0.1 | 0.5 | -0.5 | 0.4 | 1.2 | -1.6 | 0.3 | - | 0.3 | 0.4 | 1.4 | -2.2 | 0.4 |
| Q4 | 0.8 | 0.6 | 0.6 | 1.2 | 1.7 | -0.9 | 0.6 | 0.7 | 1.1 | 1.0 | 2.0 | -1.2 | 0.9 |
| 1999 Q1 | 0.2 | 0.5 | -0.2 | 1.3 | 1.3 | -0.6 | 0.4 | 0.1 | 0.4 | 0.8 | 2.1 | -1.2 | 0.8 |
| Q2 | 2.7 | 2.4 | 3.4 | 3.2 | 3.6 | 0.5 | 2.6 | 3.0 | 1.8 | 2.8 | 3.8 | 1.3 | 2.9 |
| Q3 | 3.4 | 3.6 | 7.0 | 3.2 | 2.9 | 1.3 | 4.3 | 3.3 | 3.8 | 2.5 | 3.2 | 3.0 | 3.7 |
| Q4 | 3.3 | 3.5 | 4.9 | 4.3 | 3.9 | 3.3 | 3.8 | 3.3 | 3.1 | 3.7 | 4.4 | 3.8 | 4.1 |
| 2000 Q1 | 3.5 | 3.4 | 5.6 | 3.3 | 2.4 | 4.7 | 3.9 | 3.2 | 4.3 | 2.9 | 2.8 | 5.0 | 3.6 |
| Q2 | 3.0 | 2.7 | 4.8 | 4.1 | 3.5 | 4.0 | 3.2 | 2.7 | 3.7 | 3.6 | 3.9 | 4.9 | 3.7 |
| Q3 | 2.4 | 2.4 | 3.7 | 3.4 | 2.6 | 3.9 | 2.7 | 2.2 | 2.7 | 2.9 | 2.9 | 5.2 | 3.1 |
| Q4 | 1.3 | 1.5 | 0.5 | 1.2 | 0.8 | 1.4 | 1.3 | 1.6 | 0.5 | 0.9 | 1.2 | 1.3 | 1.2 |
| 2001 Q1 Q2 Q3 Q4 | -0.5 -2.4 -1.4 -0.7 | -0.2 -3.5 -2.3 -0.6 | -2.4 -2.7 -1.8 -1.1 | -1.6 -2.0 -1.3 -0.1 | -1.2 -1.9 -1.3 -0.1 | -0.4 -0.4 - | -0.7 -3.3 -2.2 -0.7 | -0.3 -2.7 -1.6 -0.7 | -1.0 -1.6 -0.8 -0.6 | -0.9 -1.5 -1.0 -0.1 | -1.8 -2.3 -1.7 -0.2 | -0.9 -1.3 -0.3 0.2 | -1.1 -2.6 -1.7 -0.4 |
| 2002 Q1 Q2 Q3 Q4 | 1.7 3.7 1.8 | 1.5 4.0 1.3 –0.9 | 4.5 4.6 3.4 2.4 | 0.9 3.4 1.9 | 0.1 3.2 1.7 0.9 | 2.3 2.3 1.6 | 2.2 4.1 1.8 –0.1 | 1.0 3.7 1.3 –0.7 | 3.4 3.7 2.9 | 0.7 3.0 1.7 | 0.3 3.7 1.9 0.6 | 2.5 2.5 1.8 | 1.5 3.8 1.8 |
| 2003 Q1 | | -0.4 | | | ** | | | | | | -0.2 | | |

¹ Data used in the World and OECD aggregates refer to Germany after unification

Source: OECD -

The new inflation target: the statistical perspective

David Roe and David FenwickOffice for National Statistics

This article¹ sets out the statistical background to the Chancellor of the Exchequer's Pre-Budget Report 2003 announcement that the UK inflation target has changed from one based on the Retail Prices Index excluding mortgage interest payments (RPIX) to one based on the Harmonised Index of Consumer Prices (HICP), now known in the UK as the Consumer Prices Index (CPI). The article describes the historical background to the development of the CPI and RPIX indices, the differences between them, and their relative merits as indicators of UK inflation.

Executive summary

This article sets out the statistical background to the Chancellor of the Exchequer's Pre-Budget Report 2003 announcement that the UK inflation target has changed from one based on the Retail Prices Index excluding mortgage interest payments (RPIX) to one based on the Harmonised Index of Consumer Prices (HICP).

Concurrent with the Chancellor's announcement and reflecting its new role as the main UK domestic measure of inflation for macroeconomic purposes, the National Statistician decided that the UK HICP would in future be known as the 'Consumer Prices Index' (CPI) in all National Statistics releases and publications. This should not be interpreted as implying that there is any intention to develop the CPI differently from the HICP. The CPI and the HICP will remain one and the same index

The historical contexts of the all-items Retail Prices Index (RPI) and the CPI are very different. The RPI began life as a compensation index, developed as an aid to protect ordinary workers from price increases associated with the First World War, and it was only much later that it came to be used as the main domestic measure of inflation from a macroeconomic perspective. A government inflation target expressed in terms of the RPIX was first adopted in 1992, and the all-items RPI is used to adjust benefits, tax allowances and thresholds, and also index-linked gilts.

HICPs were developed in the European Union (EU) expressly from a macroeconomic perspective, and launched in 1997. Initially, HICPs were used to assess which EU Member States passed the inflation convergence criterion for membership of Economic and Monetary Union (EMU), and so cross-country comparability was a key issue in designing the HICP. Since EMU has been established, it has been used by the European Central Bank to assess price stability in the euro area.

Nevertheless, the basic approach to the measurement of inflation adopted by both the CPI and RPIX is the same. Both track the changing cost of a fixed basket of goods and services over time, and both are produced by combining together some 120,000 individual prices collected each month for about 650 representative items. The CPI and RPIX baskets are 'fixed' in the sense that the relative quantities purchased of the various items in the baskets are assumed to be constant from month to month, although the baskets are updated on an annual basis. This ensures that within-year changes in the indices reflect only changes in prices.

As fixed quantity indices, both the CPI and RPIX are likely to 'overstate' changes in the cost of living in that, faced with rising prices overall, consumers are likely to substitute purchases of items which become relatively expensive for those which become relatively cheaper. This will help to limit the increase in the cost of their own 'shopping basket'. A cost of living index, by contrast, would allow for substitution of this type as it takes place: so as the prices of individual items go up,

and at different rates, a cost of living index will always show a lower rate of change in prices overall than a fixed basket index. In practice, this potential problem is mitigated by annually updating the contents of the CPI and RPI baskets and the expenditure weights associated with them.

As well as adopting the same basic approach to the measurement of inflation, exactly the same underlying price data collected each month are used to compute both the CPI and RPIX indices in most cases. However, there are persistent and sometimes significant differences in the UK rate of inflation according to the two measures. Since January 1989, RPIX inflation has exceeded CPI inflation by an average of 0.7 percentage points and, at 1.3 percentage points in October 2003, the difference is currently quite wide.

These differences can be explained in terms of a series of detailed choices about how the two indices are constructed, for example:

- which particular consumers or households the index is designed to represent
- the range of goods and services that should be included and
- the way that their prices should be measured.

At a more technical level, but of great importance in practice, the CPI and RPIX also use different techniques to combine together the individual prices collected each month. This also affects their respective inflation rates and is called the formula effect. These differences between the CPI and RPIX measures are summarised in the box.

ONS publishes each month in summary form a numerical breakdown of the contribution of these factors to the difference between the annual rate of inflation according to the CPI and RPIX, although this is only available over the period since January 1997. It is important to note that this period is too short to view the resulting differences as the long-run deviation between the CPI and RPIX, or the longer-term contribution to that difference from any single factor. In particular, some housing costs that are excluded from the CPI have risen relatively rapidly over this period.

Bearing in mind these caveats, the analysis shows that, in practice, there are two main factors that serve to raise RPIX inflation relative to the CPI. First, the exclusion from the CPI of council tax and a range of owner-occupier housing costs included in RPIX has had the largest effect, on average lowering CPI inflation by 0.56 percentage points relative to RPIX since January 1997. Second, the formula effect has, on average, lowered CPI inflation relative to RPIX by 0.51 percentage points over the same period. The contribution from the housing components excluded from the CPI has varied markedly over this period, whereas the formula effect has been much more stable. On average, the impact of the other differences between the CPI and RPIX has been less important.

Box: Comparing the CPI and RPIX

In terms of **commodity coverage**, the CPI excludes a number of items that are included in RPIX, mainly related to housing:

- council tax
- owner-occupier housing costs such as house depreciation and buildings insurance
- house purchase costs such as estate agents' and conveyancing fees
- trade union subscriptions and vehicle excise duty.

Conversely, the CPI includes the following items that are not in RPIX:

- unit trust and stockbrokers fees
- university accommodation fees
- foreign students' university tuition fees
- foreign exchange commission for purchases of sterling by overseas visitors.

This partly reflects the differences in the **population base** for each index:

- RPIX is representative of private UK households excluding the highest income households and pensioner households mainly dependent on state benefits.
- The CPI covers all private households, institutional households and foreign visitors to the UK.

This also means that the weights for all the items in the CPI basket reflect the spending of the wider population.

There are also some specific differences in **price measurement** between the two indices:

- New car prices in RPIX are imputed from movements in second-hand car prices whereas the CPI uses a qualityadjusted index based on the published prices of new cars.
- The index for personal computers in the RPI currently uses the 'option cost' method for quality adjustment, whereas the CPI uses 'hedonic regression' techniques.
- The CPI classifies insurance spending net of claims receivable, whereas RPIX is based on gross premiums.

Finally, **individual prices are combined** in the CPI and RPIX within each detailed expenditure category according to different formulae:

- The CPI uses the geometric mean, which allows for consumer substitution from more expensive brands or varieties of each item towards cheaper alternatives when relative prices change.
- RPIX uses arithmetic means, which do not allow for substitution.

The formula effect arises because RPIX uses arithmetic means to combine individual prices in each detailed product group whereas the CPI uses the geometric mean (GM). For given price data, in practice the geometric mean always gives a lower estimate of price change. This is because within each detailed product group the use of the GM formula implicitly assumes that consumers switch purchases away from particular brands or varieties which become relatively more expensive, whereas arithmetic means do not. In addition, in producing a chain-linked index spanning several years, in some circumstances one of the arithmetic techniques used in RPIX can lead to a small upward bias known as 'price bounce'.

In terms of their basic usability as macroeconomic indicators, there is little to choose between the CPI and RPIX. Both are published monthly, to a common timescale, and are subject to minimal revisions (the RPI and RPIX, by convention, are never revised). Compared to RPIX, however, the CPI's later and explicit development as a macroeconomic indicator means that it has some distinct advantages over RPIX for this purpose.

In particular, the CPI benefits from greater coherence with other macroeconomic data, reflecting its foundation in National Accounts principles in determining index scope and population. The use of the GM averaging technique also has advantages, and is increasingly preferred in other countries. The GM formula is not susceptible to any bias due to price bounce and, in the context of cross-country comparisons, is much less influenced by detailed differences in index and sample design in individual countries.

Against this, the familiarity and credibility of RPI and RPIX based on their longer history is a key advantage. Inevitably, it will be some time before the CPI measure becomes as widely recognised. In addition, the CPI's exclusion of most elements of owner-occupier housing costs is an outstanding issue, and lessens its relevance for some users. However, this must be weighed against the significant difficulties encountered in measuring such costs appropriately, reflected in the absence of any international consensus in this area. The RPI's inclusion of owner-occupier housing costs partly reflects its use as a compensation index, but has necessitated some significant compromises in terms of the conceptual consistency of the index.

The ONS is currently taking part in a Eurostat pilot study assessing the possibility of including in the HICP an index of owner-occupier housing costs based on the net acquisitions approach. This would include household sector costs in acquiring new houses or existing houses from other sectors, bills for major repairs and renovations, and other house buying costs including estate agent and conveyancing fees. It is likely that the cost of major repairs and renovations would be measured by an index of construction costs. This has advantages over RPIX in that depreciation costs, which are measured via a smoothed house price index, are likely to be distorted through movements in land prices.

The pilot study is now close to completion and could be extended, subject to funding in 2004, to embrace all Member States. However, there are a number of difficult implementation issues to be addressed, and this means that the longer-term outcome cannot be assessed with any certainty at this stage. Any extension of the HICP and therefore CPI to cover owner-occupier housing costs is not likely to take place before January 2006 at the earliest, and could take longer.

Introduction

On 10 December 2003, in his statement on the Pre-Budget Report, the Chancellor of the Exchequer confirmed that with immediate effect the UK inflation would change from one based on the Retail Prices Index excluding mortgage interest payments (RPIX) to one based on the Consumer Prices Index (CPI), previously published in the UK as the Harmonised Index of Consumer Prices (HICP). At the same time, the Chancellor confirmed that pensions, benefits and indexlinked gilts will continue to be calculated on exactly the same basis as previously, that is with reference to the all-items Retail Prices Index (RPI) or its derivatives.

Reflecting its new role as the main UK domestic measure of inflation for macroeconomic purposes, the National Statistician decided that the UK Harmonised Index of Consumer Prices (HICP) would in future be known as the 'Consumer Prices Index' (CPI) in all National Statistics releases and publications. This should not be interpreted as implying that there is any intention to develop the CPI differently from the HICP. The CPI and the HICP will remain one and the same index.

The new name is simpler, emphasises the CPI's role as a UK index, and is consistent with the naming of other price indices. The term CPI is used throughout the text of this article instead of HICP, except where the discussion relates specifically to the index in the European Union (EU) context, for example in the summary of the institutional arrangements in Box 4 or EU plans for the extension of HICP coverage of owner-occupier housing costs in a later section.

The reasons for the change in the inflation target and implications for the conduct of UK monetary policy are set out by HM Treasury in the Pre-Budget Report 2003 and in the Appendix attached to the new remit for the Bank of England's Monetary Policy Committee. This article is intended to promote understanding of the new target measure from a statistical perspective, in the context of its publication in the UK as a key element in a range of inflation measures used in public policy.

The article is organised as follows. Firstly the historical background to the development of the RPI, RPIX and CPI indices is set out. This is followed by a description of how the indices measure inflation, focusing on the underlying similarities in approach. Differences in the annual rate of UK inflation according to RPIX and the CPI are then analysed in terms of a series of more detailed choices concerning index coverage and construction. Key differences between RPIX and the CPI, including the coverage of owner-occupier housing costs and the formula effect, are described in detail. This feeds into an overall evaluation of the statistical properties of the two indices as macroeconomic indicators of inflation. Finally, there is a discussion of the longer-term options for the extension of CPI coverage in the field of owner-occupier housing costs.

Historical context: the evolution of consumer price indices in the UK

The historical contexts of the RPI and the CPI are very different, and this helps to explain their different statistical properties as described later in this article. The RPI has its origins in an index originally developed as an aid to protect ordinary workers from what were initially expected to be the temporary economic consequences of the First World War. To begin with then, its primary purpose was as a compensation index rather than a macroeconomic indicator of inflation. It was only much later that it evolved into the all-purpose index it is today.

The modern RPI is now used for a very wide variety of purposes. Government uses of the RPI include the uprating of benefits, taxation allowances and thresholds, the indexation of index-linked gilts, and the regulation of privatised utilities. The RPI is also used in private sector contracts to specify benchmark price changes. More generally, it has been used as the main macroeconomic indicator of inflation by economic analysts and policy makers. This multi-purpose role has helped to shape its development over time; a brief history of the RPI is provided in Box 1.

The RPI excluding mortgage interest payments, later to be called RPIX, was introduced in 1975 when the rental equivalent approach to the measurement of owner-occupier housing costs in the RPI was replaced by the mortgage interest payments approach. The inclusion of mortgage interest payments means that changes in interest rates have a direct, and often substantial, effect on the all-items RPI. Moreover, from a monetary policy perspective, the short-term impact of interest rate changes on the RPI is perverse. For example, action taken to reduce inflation by increasing interest rates increases the RPI initially. This is because the direct impact of increased mortgage interest payments is felt immediately, dominating for a period the more gradual reduction in price pressures for other goods and services that usually follows an increase in interest rates.

The introduction of RPIX therefore reflected a specific requirement for an inflation measure unhindered by the direct effect of interest rate changes. As a simple transfer between sectors, exclusion of the mortgage interest also has the advantage of helping to focus RPIX on prices for consumer goods and services as traditionally defined. The adoption of an official inflation target defined in terms of RPIX was first announced in October 1992. In fact, RPIX is just one example of a range of indices that have been developed, based on the all-items RPI, in response to the widening range of user needs. Other examples include:

RPIY was introduced in 1995, and is designed to measure movements in underlying prices by excluding price changes that are directly due to changes in indirect taxation as well as movements in mortgage interest rates. By necessity, RPIY assumes that indirect tax changes are immediately and fully reflected in retail prices at the moment they occur, although in practice retailers may choose to absorb the change in their profit margins, at least for a period.

Box 1: A brief history of the RPI

The RPI as it exists today is very different from the first official consumer price index produced in 1914 as an aid towards protecting ordinary workers from price rises associated with the First World War. The first index, designed as a compensation index for urban working class families, was influenced by highly subjective assessments of what constituted proper expenditure for a working class family. For example, beer was excluded entirely and the weight for tobacco in the index was much less than its share in actual spending. This index, with unchanged weights, was produced throughout the 1920s and 1930s.

In 1936 the then Ministry of Labour announced its intention to update the RPI weights using the results from a large-scale household expenditure survey carried out in 1937-38. However, this process was disrupted by the onset of the Second World War and so the results of the survey were not incorporated until the late 1940s when an 'interim' retail prices index was compiled. It was also from this point that the government convened a succession of RPI Advisory Committees to investigate and make recommendations on a number of measurement issues.

By the mid-1950s, sufficient information from the Household Budget Inquiry was available to underpin a new index and the first official Retail Prices Index was introduced in 1956. This coincided with the expansion of household coverage from working class families to all wage earners except those on very high and low incomes (the modern RPI has similar coverage) and the first proper articulation of the definition of the index and its scope in terms of which goods and services should ideally be included.

Since then the RPI has continuously evolved to reflect changes in user needs, statistical methods and household spending patterns, based on the recommendations of successive RPI Advisory Committees. A number of statistical improvements have been made to the RPI over the past decade. These include the introduction of a component for foreign holidays from 1993 and UK holidays from 1994, implementation of random sampling of locations in 1995, and the introduction of explicit quality adjustments for the first time, with the inclusion of an index for personal computers in 1998.

Further historical background to the evolution of consumer price indices in the UK is provided in Appendix A. The main RPI Advisory Committee recommendations are given in Appendix B.

■ The Tax and Prices Index (TPI), first produced in 1979, measures how much the average person's gross income needs to change to purchase the RPI basket of goods, allowing for the average amount of income tax and national insurance paid on earnings. Note that the TPI calculation also makes a number of simplifying assumptions² and, more importantly, has no distributional dimension despite the fact that the net impact of changes in incomes, prices and taxes often varies widely across different income groups.

The CPI, by contrast, has a much shorter history. HICPs were developed in the EU for the sole purpose of assessing whether prospective members of European Monetary Union would pass the inflation convergence criterion and then of acting as the measure of inflation used by the European Central Bank to assess price stability in the euro area. The main requirement therefore was for a measure that could be used to make reliable comparisons of inflation rates across EU Member States. Such comparisons are not possible using national consumer price indices due to differences in index coverage and construction. As described later in this article, this comparability requirement has had an important bearing on the design and methodology adopted in constructing the HICP.

The Office for National Statistics (ONS) first published UK inflation rates on the CPI basis in February 1997 with back data for index levels to January 1996. Estimates extending further back to 1988 have also been made, along with indicative figures for the period 1975–1987. These estimates are described in O'Donoghue (1998), *Harmonised Index of Consumer Prices: historical estimates*, which is available on the National Statistics website.

RPIX and the CPI: what do they measure and to what extent are they similar?

Fixed basket price indices

Although there is no single definition of the word 'inflation', many consumers might think of it as an ongoing decline in the value of money driven by a more or less continuous increase in the price of goods and services that they purchase. One straightforward method of measuring inflation therefore is to calculate the amount of extra money required in some period to purchase the same basket of goods and services that could be purchased by a given sum of money in some earlier period. The amount of money needed to purchase a fixed basket of goods and services is known as the internal purchasing power of the currency. Both RPIX and the CPI measure inflation by estimating changes in this amount of money over time. The approach is formalised in the price index formulae shown in Box 2.

In principle, the cost of the basket should be calculated with reference to all consumer goods and services purchased by households, and the prices measured in every shop or outlet that supplies them. In practice, both the RPI and CPI are calculated by collecting a sample of prices for a sample of representative goods and services in a representative selection of retail outlets. They are currently produced by combining together some 120,000 individual prices collected each month for about 650 representative items.

Within each year then, both the RPIX and the CPI are described as fixed quantity or Laspeyres price indices.³ As prices change over time, they assume that the relative quantities of each product purchased remain constant. This deliberate design choice is critical in ensuring that withinyear movements in the indices reflect only changes in prices. For this reason, RPIX and the CPI are sometimes called 'pure' price indices.⁴

Box 2: Fixed basket price index formulae

Fixed quantity price indices are calculated as the cost of a fixed basket of n goods and services in the current period (time t) relative to the cost of the same basket of goods and services at the base date (time 0). As the index formula below makes clear, the basket is 'fixed' in that the quantities of the goods or services bought in the two periods are assumed to be constant. This ensures that it is only changes in prices that are reflected in the index and not changes in purchasing patterns.

$$I_{i,0} = 100 \times \frac{\sum_{i=1}^{n} P_{i} Q_{i0}}{\sum_{i=1}^{n} P_{i0} Q_{i0}}$$

where $I_{t,0} = index$ for period t based on base date, time t=0

 P_{i+} = price for the ith item at time t

 P_{in} = price for the ith item at the base date, time t=0

 Q_{i0} = quantity of the ith item purchased in the base period

The formula can be re-written as follows:

$$I_{z,0} = 100 \times \sum_{i=1}^{n} (P_z/P_{i0}) W_i$$

where
$$W_i = P_{i0}Q_{i0} / \Sigma(P_{i0}Q_{i0})$$

In this case, it is more easily seen that the index may be calculated as a weighted average of price relatives or price changes for the various items in the basket. For each item in a given period, a price relative is calculated as the ratio of the current price to the base price, and so measures the proportionate change in the price of the item. The relatives are weighted by the share of each item in total nominal expenditure in the base period.

Consumer substitution and the cost of living

From an alternative perspective, however, pure price indices are likely to 'overstate' changes in the cost of living to the extent that, in the face of the relative price changes that typically accompany a general increase in prices, consumers are likely to substitute purchases of relatively expensive items for similar goods that have become relatively cheaper. This will help to limit the rise in the cost of their own 'shopping basket' in the face of a general increase in the cost of goods and services overall

Therefore the RPI and the CPI do not measure 'the cost of living'. Avoiding value judgements about what constitutes a reasonable or minimum acceptable standard of living, a cost of living index can be defined as the minimum expenditure (or income) a consumer faced by rising prices requires to achieve the same level of utility as in some earlier period, relative to their expenditure (or income) in the earlier period. In this case, there is no assumption that relative quantities of

goods and services purchased in the two periods are the same and so a cost of living index is conceptually quite different to fixed basket indices like the RPI and the CPI.

Box 3: Fixed basket price indices and cost of living indices compared

Suppose we have a single representative consumer who buys only two goods, say food and clothing, with quantities purchased and prices denoted F,C and $P_{\rm fr}P_{\rm c}$ respectively. Further, assume that the utility or the satisfaction they derive from these purchases takes the general form:

Utility,
$$U(F,C) = F^{\alpha}C^{1-\alpha}$$
 (1)

where $0 < \alpha < 1$.

This particular form of consumer preferences, known as Cobb-Douglas, is used at this stage for illustrative purposes, and the conclusions that follow are not dependent on this functional form¹. However, this particular utility function is directly relevant to the later discussion of the aggregation formulae used at the detailed level in the CPI and RPIX.

The consumer is faced with the problem of choosing the quantities of food and clothing that they purchase in order to maximise utility subject to an overall budget constraint:

Income,
$$Y = P_f \cdot F + P_c \cdot C$$
 (2)

Given this constraint on total spending, any change in say the quantity of food purchased must involve an offsetting adjustment to the amount spent on clothing. One way of solving the problem therefore begins with the total differentiation of equation (1):

$$dU = (\delta U/\delta F).dF + (\delta U/\delta C).dC$$

so
$$dU/dF = \delta U/\delta F + (\delta U/\delta C).(dC/dF)$$
 (3)

where, from (1) and (2), $\delta U/\delta F = \alpha U/F$, $\delta U/\delta C = (1-\alpha)U/C$, and $dC/dF = -P_f/P_c$

By setting (3) equal to zero and substituting in the partial differentials of U with respect to F and C and also dC/dF, it can be shown that the optimal quantities of food and clothing purchased are:

$$F = \alpha.Y/P_{f} \tag{4}$$

and
$$C = (1-\alpha).Y/P_c$$
 (5)

It is now clear that the shares of spending devoted to food (P_r.F/Y) and clothing (P_c.C/Y) are constant at α and (1- α) respectively, and so are invariant to changes in relative prices. That is, a proportionate increase in the relative price of either food or clothing leads to an equal and offsetting proportionate reduction in the relative quantity purchased, leaving its share in total spending unchanged. This means that elasticity of substitution² between the two goods is equal to 1.

These results are used in the table below to illustrate the impact on utility of an increase in prices. For illustrative purchases, it is assumed that income in the base period is £1,000 and the price of both food and clothing is £1 (see column 1 of the table). In this case, the consumer buys equal quantities of both commodities and, according to equation (1), maximises utility at 500.

| Income, Y | 1,000 | 1,000 | 1,414 | 1,500 |
|------------------|---------|---------|---------|---------|
| Prices: Pf, Pc | 1,1 | 2,1 | 2,1 | 2,1 |
| Quantities: F, C | 500,500 | 250,500 | 354,707 | 375,750 |
| Utility (α=1/2) | 500 | 354 | 500 | 530 |

Now suppose that the price of food increases to £2 in some subsequent period with the price of clothing unchanged (Column 2). Not surprisingly, the consumer now chooses to buy less food since it is now relatively more expensive. But with income still at £1,000, and higher prices overall, utility is lower. Column 3 shows that, at the new prices, income would need to increase to £1,414, or by just over 41 per cent, to achieve the same utility as in the base period. This is the cost of living adjustment.

Column 4 of the table meanwhile shows the situation where the consumer's income has been adjusted in line with the percentage increase shown by a fixed basket price index following the change in the price of food. Using the formula in Box 2, the increase in the total cost of the original basket is 50 per cent (that is, it costs 50 per cent more after the price change to purchase the original basket composed of equal quantities of food and clothing). However, since the consumer has substituted consumption away from food, which is relatively more expensive, he is able to raise utility above that achieved in the base period.

Where consumers have choice therefore, the percentage increase in the fixed basket price index overstates the increase in income or expenditure necessary to maintain living standards in the face of rising prices. Where relative price changes are large, the difference is also large. But for smaller price changes, a fixed basket price index is a reasonable approximation to a true cost of living index.

For any good, the elasticity of substitution (σ) can be defined as the proportionate change in the relative quantity purchased divided by the proportionate change in its relative price. In the example above: $\sigma = d(C/F)/(C/F)/d(P_r/P_c)/(P_r/P_c) = d(C/F)/d(P_r/P_c)/(C/F)/(P_r/P_c)$ dividing (5) by (4) gives $C/F = (1-\alpha)/\alpha$. (P_r/P_c) , so $d(C/F)/d(P_r/P_c) = (C/F)/(P_r/P_c) = (1-\alpha)/\alpha$ and $\sigma = 1$

Box 3 examines this issue in greater detail. It shows that a price index based on a fixed basket of goods and services overstates the extent to which consumers' expenditure or income must rise in order to maintain constant utility as prices rise. Although the point is illustrated with reference to a particular form of consumer preferences, the result always holds when there is consumer substitution between different products. That is, when prices rise, so long as consumers have a choice, they can always achieve a given standard of living at lower cost by varying the relative quantities of the goods they

Note also that because consumer utility is not cardinally measurable, the apparent restriction implied by equation (1) that the exponents on F and C sum to one is not in practice significant.

purchase, compared to simply increasing overall spending on a fixed bundle of goods.⁵

The degree to which the fixed basket price indices like the RPI and the CPI may overstate changes in the cost of living depends on the scale of price changes. In practice, the potential problem is minimised by regularly updating the contents of the RPI and CPI baskets and the expenditure weights associated with them. In both cases, within-year price indices based on a fixed basket of items and constant expenditure weights are calculated for the period from January to the following January. These overlapping within-year indices are then chained together to form a single price index spanning several years. Annual updating of RPI and CPI baskets and weights ensures that the indices remain representative of consumer spending patterns over time.

The degree of consumer substitution between products in the face of relative price changes is an important concept. Later in this article it is shown that the various averaging techniques used to combine prices at a low level of detail in RPIX and the CPI embody different assumptions about the degree of substitutability between different varieties or brands of products. Not surprisingly, this has an important bearing on the measured rate of inflation according to the two indices.

What is the CPI?

Reflecting its new role as the main UK domestic measure of inflation for macroeconomic purposes, the CPI is the new name for the inflation measure previously published in the UK as the HICP.

The HICP was developed by Eurostat, the Statistical Office of the EU, and EU Member States. It is constructed in each EU country in accordance with a series of regulations and guidelines that followed from an initial regulation passed in October 1995. These regulations and guidelines are designed to ensure comparability of measured inflation rates across Member States, something which is not possible with national consumer price indices because of differences in coverage and construction.

Eurostat combines these figures into aggregate indices for the Monetary Union area and the whole of the EU. The weights are based on each country's share of household final consumption expenditure. The UK's weight in the aggregate EU index in 2003 is just under 17 per cent. The UK has the second largest weight after Germany (24 per cent), but not much different from France (16 per cent) and Italy (15 per cent). Eurostat publishes both the HICPs for individual countries and the aggregate indices on a monthly basis. They are also published in the individual countries; in the UK they are published monthly in the consumer price indices First Release.

Box 4 summarises the institutional arrangements for the production and development of the HICP across the EU. It should also be noted that the published HICP and UK CPI figures can in principle be revised, whereas by convention the RPI and RPIX are never revised. That said, past revisions to the previously published UK HICP figures have been minimal, with only one set of changes made since 1996.

Box 4: Institutional arrangements for the development of the HICP

The HICP is defined in a series of legally binding regulations. The Council Regulation (EC) No 2494/95 of 23 October 1995 'concerning harmonised indices of consumer prices' provides the legal basis of the HICPs and a series of subsequent Council and Commission regulations define its construction and coverage.

The aim of these regulations is to establish a set of minimum standards that ensure that the HICPs constructed in Member States are comparable. They aim to promote good statistical practice by defining a series of 'minimum standards' while recognising the principle of 'subsidiarity' to allow for national circumstances.

HICP regulations are drafted by the European Commission (Eurostat) in conjunction with Member States through the HICP Working Party. This work is overseen and approved by the Statistical Programme Committee (SPC) made up of Heads of EU National Statistical Institutes and the Head of Eurostat. Like other Member States, the UK can influence legislation but cannot dictate it. As the HICP is the measure of inflation used by the European Central Bank (ECB) for monitoring inflation in the euro area, the 'opinion' of the ECB is also sought on all regulations.

The HICP regulations are obligatory in every EU Member State. Eurostat, on behalf of the Commission, undertakes an ongoing compliance monitoring programme to evaluate compliance with the HICP regulations.

Member States' interests in the development of the HICP are represented at the HICP Working Party, which meets about three times a year. HICP regulations normally require a qualified majority vote before they are brought forward for legislation. In addition, there are also a number of guidelines, which have been agreed by Eurostat and Member States, as a practical and flexible way of taking forward development of the HICP. These guidelines do not have the force of law but often form the basis of subsequent regulations. Guidelines may also give practical examples and general advice on how the legal requirements of regulations should be implemented.

As noted earlier, the change in name of the HICP in the UK to the CPI should not be interpreted as implying that there is any intention to develop the CPI differently from the HICP. The CPI and the HICP will remain one and the same index.

Why and how does the CPI differ from RPIX?

We have already seen that both RPIX and the CPI adopt the same fundamental approach to the measurement of inflation. Both measures are based on the simple idea of tracking the changing cost of a fixed basket of goods and services over time. Indeed, for the vast majority of goods and services in the RPIX and CPI baskets, the same underlying price data is used to calculate the two indices.

There are, nevertheless, persistent and sometimes significant differences in the UK rate of inflation according to the two measures. Figure 1 compares the annual inflation rates for RPIX and the CPI each month since January 1989. For most of this period, the annual change in RPIX has exceeded that for the CPI. On average, the difference has been 0.7 percentage points over this period. It is also clear that the difference varies over time and, at 1.3 percentage points in October 2003, the difference is currently quite wide.

As discussed below, the inclusion of a range of housing costs in RPIX, but not in the CPI, has tended to result in larger increases in RPIX than the CPI because over this period housing costs have tended to increase by more than prices generally. The only period when the RPIX annual rate was lower than for the CPI was the 12 months from April 1991. This was mainly due to a 30 per cent cut in the community charge in April 1991 lowering RPIX inflation but not the CPI from which it is excluded. The discussion below also shows that increases in RPIX are usually larger than in the CPI because of the different methods adopted in the two indices to combine prices at the most basic level of detail, all other things being equal.

Coverage and methodology

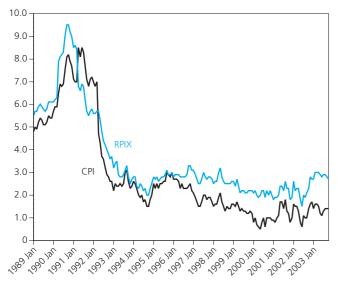
More generally, compilation of fixed basket indices such as RPIX and the CPI involves a range of detailed choices concerning index coverage, construction and methodologies. Some of the more important choices concern:

■ **Population base**: which particular consumers or households is the index designed to cover?

The CPI is based on the purchasing patterns of *all* private households. RPIX, by contrast, excludes the expenditure of the top 4 per cent of households by income and pensioner

Figure 1 **CPI and RPIX inflation**

Per cent, month on a year ago



households that derive at least three-quarters of their total income from state benefits (the latter accounting for around 10 per cent of UK households). Note that the exclusion of households with very low and very high incomes from the national consumer price index is not common in other countries. In addition, the CPI also includes the expenditure of people living in institutional households, such as nursing homes and student hostels, and of foreign visitors to the UK, all of which are excluded from RPIX.

Commodity coverage: in principle, which types of goods or services should be included in the index?

The types of goods and services which in principle should be included in the index is known as the scope of the price index. The CPI largely follows National Accounts concepts of what constitutes household consumption in determining index scope, and mainly uses National Accounts data sources to weight together the items in the basket. The expenditure coverage of RPIX is similar but has evolved in a largely pragmatic way, drawing on evidence on UK consumer spending patterns provided by the Expenditure and Food Survey (EFS) as the basis for the selection and weighting of items in the basket.

However, as described later, there are a number of specific and important differences in commodity coverage between the two measures. These mainly relate to the treatment of owner-occupier housing costs, and also council tax, which are covered in detail in RPIX but largely excluded from the CPI.⁹

Price measurement: how should prices in the index be measured?

Although the physical collection and measurement of prices may seem straightforward, some difficult issues do arise in a few specific areas. A particular challenge lies in ensuring that the price index is not affected by changes in the quality of goods and services purchased over time. This is particularly important for sectors where the rate of technological progress is high, and product specifications change frequently (for example, computers). A range of methodologies exist to adjust the prices of such goods for changes in quality, and the RPIX and CPI measures adopt different approaches in some cases.

■ Index methodology (the formula effect): how should prices be combined at the lowest level of detail?

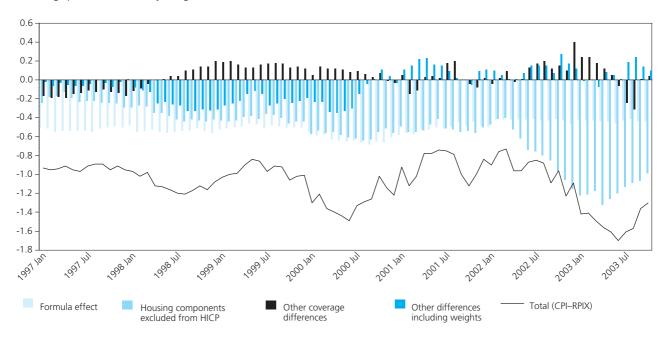
In practice, individual prices used in the RPI and CPI indices are collected and combined together to form sub-indices at a fine level of disaggregation. For many products, distinct sub-indices will be constructed for each region of the UK and may also be further subdivided by shop type. These elementary indices are then weighted together to form the overall price index.

Within each elementary index, however, expenditure weights are not available with which to combine the prices and so one of a number of simple averaging techniques

Figure 2

Contributions to the difference between CPI and RPIX inflation

Percentage points, month on a year ago



must be employed. The CPI generally uses the geometric mean to average prices at this basic level, whereas RPIX employs a mixture of arithmetic mean techniques. As described later in this article, this means that the CPI produces a lower estimate of the change in prices at this level than RPIX. This is known as the formula effect.

Reconciling the CPI and RPIX inflation rates

ONS publishes each month a detailed reconciliation of the differences in the annual rates of inflation according to the RPIX and CPI measures. This analysis is only available for the period since 1997, corresponding to the period for which official CPI figures have been published in the UK. It is important to note that this period is too short to view the resulting differences as the long-run deviation between the CPI and RPIX, or the longer-term contribution to that difference from any single factor. In particular, the housing components excluded from the CPI have risen relatively rapidly over this period.

Bearing in mind these caveats, estimated contributions to the difference in the annual rates of CPI and RPIX inflation since January 1997 are shown in Figure 2. The data are provided in Appendix C and are summarised in Table 1.

It is clear that, in practice, there are two main contributors to the difference between the CPI and RPIX annual inflation rates:

■ The exclusion of council tax and most components of owner-occupier housing costs from the CPI has had the largest effect since January 1997, on average reducing CPI inflation by 0.56 percentage points relative to RPIX. While the exclusion of the housing components has consistently

Table 1:

Differences¹ in CPI and RPIX inflation rates since
January 1997

| | January 1997 to October 2003 | | | | | | | |
|--|------------------------------|--------------|---------------|-----------------------|--|--|--|--|
| | average ² | minimum | maximum | standard deviation | | | | |
| Difference between annual (CPI /ess RPIX): | rates: | | | | | | | |
| Rounded (published) figures | 4.1 | 4.7 | -0.7 | 0.2 | | | | |
| Unrounded figures | 4.08 | -1.70 | -0.73 | 0.23 | | | | |
| Breakdown of differences: | | | | | | | | |
| Housing components excluded | from | | | | | | | |
| CPI | -0.56 | -1.32 | - 0.13 | 0.30 | | | | |
| Other differences in coverage ³ | +0.04 | -0.31 | +0.40 | 0.13 | | | | |
| Formula effect | -0.51 | -0.68 | -0.41 | 0.07 | | | | |
| Other differences including | | | | | | | | |
| weights ⁴ | -0.05 | -0.35 | +0.27 | 0.17 | | | | |

Negative figures indicate that CPI inflation is lower than RPIX or factors which lower CPI inflation relative to RPIX.

lowered CPI inflation relative to RPIX over the period under consideration, its impact has also been the most variable, ranging between –0.13 and –1.32 percentage points.

^{2.} The period covered by the table is too short to consider these figures as the long-run deviation between the CPI and RPIX.

^{3.} Includes differences in price measurement, as described later in this section.

^{4.} Derived as a residual

■ The formula effect has, on average, lowered CPI inflation by 0.51 percentage points since January 1997. As with the housing effect, the formula effect has consistently lowered CPI inflation relative to RPIX over this period, but its impact has been much more stable, ranging from −0.41 to −0.68 percentage points.

Given their importance, these differences in commodity coverage and the formula effect are explained in greater detail in the sections that follow. The analysis also shows that:

- Other differences in commodity coverage including price measurement effects described later have typically had a smaller impact on the difference between the CPI and RPIX inflation rates since January 1997. The average impact over this period has been just +0.04 percentage points, but has ranged from −0.31 to +0.40 percentage points in individual months. This variation reflects in part changes in the coverage of the CPI.
- A similar story can be told for the remaining differences between CPI and RPIX, including differences in weights stemming from different population coverage and sources of weights data. Their impact has ranged from −0.35 to +0.27 percentage points since January 1997, with an average of −0.05 percentage points over the full period.

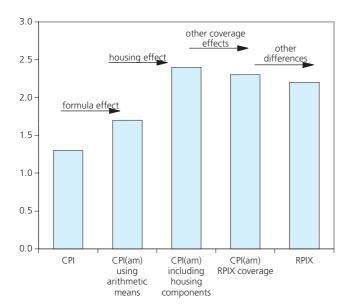
Figure 3 summarises the relationship between the two measures. Moving from left to right, it sets out the key steps involved in moving from CPI inflation to RPIX inflation in 2002, the latest full year for which data are available:

■ First, as in RPIX, prices at the lowest level of detail in the CPI must be combined according to arithmetic rather than geometric averaging techniques. This would raise the CPI measure of inflation by around 0.4 percentage points in 2002.

Figure 3

The relationship between CPI and RPIX inflation in 2002

Per cent



- Next, in adjusting the commodity coverage of the CPI basket to match RPIX, the addition of council tax and owner-occupiers housing costs has the most significant impact in 2002, increasing CPI inflation by 0.7 percentage points.
- Adjusting for other differences in coverage has a much smaller impact, lowering CPI inflation by just 0.1 percentage points in 2002.
- Finally, the impact of remaining differences, including the impact of the different weights that are attached to those items common to both indices, is downward but small overall

Commodity coverage and price measurement effects

The range of goods and services covered by the CPI is generally quite similar to RPIX. The main differences are in the area of housing, and particularly owner-occupier housing costs, which are largely excluded from the CPI. This reflects the diverse treatment of such costs in national consumer price indices, and the difficulties in establishing an international consensus on how they should be measured.

Specifically, the following housing components are included in RPIX, with a total weight of 9.5 per cent in 2003, but are excluded from the CPI:

- Council tax. This is excluded from the CPI because it is treated as a direct tax in the National Accounts and so is not considered a part of household final consumption.
- House depreciation. This is designed to measure the ongoing costs homeowners face to maintain their properties at constant quality, and is imputed in the RPIX by a smoothed house price series.
- Buildings insurance and ground rent and
- House transaction costs: surveyors' valuation fees, home buyers survey costs, estate agents' fees and conveyancing fees.

The CPI also excludes mortgage interest payments, which are included in the all-items RPI but not of course in RPIX. The possible extension of the coverage of EU HICPs and the CPI to include these various components of owner-occupier housing costs is discussed later. Finally, the CPI also excludes trade union subscriptions and vehicle excise duty, again because these items are not counted as part of household final consumption.

Conversely, there are a number of items which are included in the CPI but not covered in RPIX, mainly due to differences in the population basis of the two measures. Specifically, because the CPI population also includes residents of institutional households, foreign visitors to the UK and those high-earning private households that are excluded from RPIX, it includes the following items:

- university accommodation fees
- foreign students' university tuition fees
- unit trust and stockbrokers' charges and

 foreign exchange commission on the purchase of sterling by overseas visitors.

It is important to note that the impact of the CPI's wider population base goes much further than the inclusion of these additional items that are not in RPIX. More important, it means that the weights for all items in the CPI basket take account of spending by all UK households, residents of institutional households and foreign visitors to the UK.

The coverage of the EU HICPs and therefore the UK CPI has been extended in stages since their official launch meaning that the differences between the CPI and RPIX have changed over time. For instance, there were extensions to CPI coverage in 2000 and 2001 bringing in components for health and education, which were already included in RPIX. By contrast, the extension of the CPI population basis in 2000 to include expenditure in the UK by foreign visitors and residents of institutional households means that it now includes a number of items that are not included in RPIX as described above.

In terms of price measurement, there are a few specific differences between the CPI and RPIX. These mainly relate to the methods used to quality adjust prices so that the price index is not affected by changes in product specifications over time:¹⁰

- In RPIX, new car prices are imputed on the basis of movements in second-hand car prices. Since HICP regulations do not permit the use of imputed prices, the CPI includes a specific index for new cars. This is based on the list prices of a sample of around 50 cars covering a range of manufacturers, and is quality adjusted using the option cost technique for any changes in specifications.
- Quality adjustment of personal computer prices in RPIX is currently based on the option cost methodology whereas the CPI uses hedonic regression techniques. However, under the National Statistics Protocol on Consultation with Ministers, the National Statistician has written to Treasury Ministers advising that he proposes to extend hedonic regression as the basis for quality adjusting personal computers to the RPI in 2004.¹¹
- In the RPI, all expenditure on insurance is considered to belong to the relevant insurance heading (for example, housing or motoring insurance premiums). By contrast, in the CPI, the amount paid out in claims is distributed among other spending categories according to the nature of the claim with only the residual (that is, the service charge) allocated to the relevant insurance heading. In practice, this affects only the weights of insurance in RPIX and the CPI; there is no practical means of measuring insurance *prices* net of claims paid out.

The formula effect

Both RPIX and the CPI are produced by weighting together some 120,000 individual prices collected each month for about 650 representative items. The indices are constructed 'bottom-up', with sub-indices at each stage weighted together by expenditure shares to give higher level indices and then finally the overall or aggregate price index.

At the lowest level of aggregation, prices are grouped into about 5,000 elementary aggregates representing further subdivisions of items, usually by the type of outlet and/or the region of the country where the prices were collected. So, for example, an elementary index might be calculated for best minced beef sold in independent shops in London. However, at this level of detail, there is no information on the expenditure shares (that is, weights) for the individual shops from which prices are collected. In this case, it is usual to take a simple unweighted average of the prices in computing the elementary index.

The RPI and RPIX use two different types of arithmetic means to compute indices for the elementary aggregates: the Ratio of Averages (RA) and the Average of Relatives (AR). RA compares the unweighted average of prices in the current period with the unweighted average of matching prices in the reference period. AR meanwhile calculates, for each pair of matching prices, the ratio of the price in the current period with the price in the reference period and then averages these ratios

The RA method implicitly gives greatest weight to the highest priced products or brands in estimating price change overall. For this reason it is mainly used in RPIX for items that are fairly tightly defined, such as food, alcohol and tobacco. This helps to ensure that the various prices collected in any given period are quite similar, meaning that the estimate of price change should not be unduly dominated by any particular product within the aggregate. The AR method, by contrast, gives equal weight to each of the price relatives and is used for products such as clothing and furniture, where wider variations in prices resulting from broader item descriptions limits the application of the RA technique.

The CPI, by contrast, uses the geometric mean ¹² (GM) to form the price indices for these elementary aggregates. Each low-level index is computed as the ratio of the simple unweighted geometric mean of prices in the current period relative to the unweighted geometric mean of the matching prices in the reference period. An identical result would be found by taking the unweighted geometric mean of the price relatives, and in this sense GM shares some similarities with both the RA and AR techniques.

However, these different methods of averaging prices within the elementary aggregates do produce different results. A number of mathematical properties of the various techniques are set out in Box 5. The key points are as follows:

- As a general mathematical result, the geometric mean of a given set of values is always lower than the corresponding arithmetic mean, except when those values are all equal (in this particular case there is no difference between the geometric and arithmetic mean).
- This means that, for a given set of price relatives, the GM averaging formula used in the CPI will always produce a lower estimate of price change for an elementary index than one based on the AR aggregation technique employed in RPIX.

- The scale of this difference depends on the dispersion of the price relatives; as the variance of the price relatives increases, so does the discrepancy between the GM and AR results.
- However, for a given set of matching prices in two periods, the estimate of price change for an elementary index based on the RA technique employed in RPIX can in theory lie above or below the corresponding result based on GM, depending on the variance of prices in the current and base periods.

Box 5: Arithmetic and geometric means, and elementary aggregation techniques

Denoting the arithmetic and geometric mean functions a(x) and g(x) respectively, in the case of 2 real values, x_1 and x_2 , the functions are defined as follows:

a(x) =
$$(x_1+x_2)/2$$
 and g(x) = $\sqrt{(x_1.x_2)}$
so $a(x) = (\sqrt{x_1^2 + \sqrt{x_2^2 + 2\sqrt{(x_1.x_2)}}} - 2\sqrt{(x_1.x_2)})/2$
 $a(x) = g(x) + (\sqrt{x_1 - \sqrt{x_2}})^2/2$

Since the final term on the right-hand side is always greater than or equal to zero, it follows that the arithmetic mean of two values is always greater than the geometric mean except where the two values are equal. This result holds for any higher number of observations of x.

Moreover, since the extent to which a(x) exceeds g(x) is proportional to the square of the difference between the square roots of x_1 and x_2 , this means that it must increase according to the variance of the x values.

Now let P_t denote a set of n prices collected in the current period, $\{P_{1,t}.P_{n,t}\}$, and P_0 denote the set of matching prices in the base period, $\{P_{1,0}.P_{n,0}\}$. The corresponding set of price relatives may be denoted, $R_t = \{R_{1,t}.R_{n,t}\}$ where $R_{it} = P_{it}/P_{i0}$. The various elementary aggregation methods are defined as:

Average of Relatives, AR = a(R)

Ratio of Averages, $RA = a(P_{\bullet})/a(P_{\circ})$

Geometric mean, $GM = g(P_1)/g(P_0) = g(R_1)$

Comparing AR and GM:

$$AR - GM = a(R_{\downarrow}) - g(R_{\downarrow})$$

Following from the earlier results, it is clear that that the arithmetic mean of the price relatives is always greater than the geometric mean of the price relatives except where all price relatives are equal, and that the difference is increasing in the variance of the price relatives.

Now comparing RA and GM:

RA -GM =
$$a(P_t)/a(P_0) - g(P_t)/g(P_0) = k(a(P_t)/g(P_t) - a(P_0)/g(P_0))$$

where $k = g(P_t)/a(P_0)$

The difference between RA and GM therefore is proportional to the difference in the ratio of the arithmetic and geometric means of prices in the current period compared to the same ratio in the base period. Since $a(x) \ge g(x)$, both of these ratios will be greater than or equal to 1. Moreover, because these ratios are increasing in the variance of prices in each period, it follows that:

If the variance of the base prices > variance of current prices then GM > RA

If the variance of the base prices < variance of current prices then GM < RA

If the variance of the base prices = variance of current prices then GM = RA

This use of arithmetic averaging techniques in RPIX, as opposed to GM in the CPI, does mean that the former shows a higher rate of change for given price data. This observation is directly related to the earlier discussion concerning consumer substitution between products when relative prices change. As described in Box 3 of this article, substitution helps to limit the increase in total spending consumers require to maintain living standards in the face of a general increase in prices. The GM formula implicitly assumes that consumers will switch to cheaper alternatives when relative prices change, whereas arithmetic means are consistent with an elasticity of substitution of zero. 13,14 Focussing on within-year price changes then, the use of both RA and AR techniques contributes to the formula effect. To the extent that it is considered desirable to allow for these substitution effects, GM has advantages over both of the arithmetic techniques.

In practice, the bulk of the formula effect arises due to the use of the AR technique in RPIX rather than GM as in the CPI. There are two factors in particular which serve to raise the dispersion of price relatives within the elementary aggregates, so increasing the difference between the AR and GM estimates of price change:

- The use of January as the base month. Prices in January are somewhat atypical in that there is widespread and variable discounting for a range of products due to sales. Price relatives anchored on a January comparison period therefore tend to be more dispersed than they would be if the comparison period were some other month of the year.
- Price collection methods. Price collectors are given generic descriptions of items (for example, 'men's long sleeved shirt') rather than exact specifications (which could, for example, specify the brand of shirt, and its fabric composition, style and cut). This could raise the dispersion of the price relatives in that price changes for different types of shirts and other similar goods may vary widely, thus contributing to the formula effect. Note that generic price descriptions are cost effective in that they improve coverage by allowing prices to be collected for a broad range of products.

However, relative to GM and also RA, the use of AR in RPIX has further implications. As noted earlier, within-year indices for RPIX and the CPI (and their component indices) are chain linked together to form indices spanning several years. It can be shown that in certain circumstances, the use of the AR aggregation technique when combined with chain linking of the within-year indices introduces an upward bias in the overall price index. This phenomenon is called 'price bounce'.

Price bounce occurs when prices within an elementary aggregate change but then subsequently return to their original level over the period of the chain link. With January chain linking, this is indeed quite common in practice, since the prices of many goods fall in the New Year sales and recover in subsequent months. In these circumstances, it can be shown that an AR index does not return to its starting level of 100, but to a level slightly above this, introducing an upward bias in the index. ¹⁵ The RA and GM aggregation methods, by contrast, are not affected by price bounce. Box 6 explains price bounce in greater detail and provides a simple example.

Box 6: Price bounce

Consider the construction of a simple price index, based on the collection of just two price quotes in each period for a particular item. Further, suppose that prices for this particular item tend to fall in January as a result of sales, returning exactly to their previous level in February. Illustrative price data for the period December to February is provided in the table below.

| | price 1 | price 2 | arithmetic mean | geometric mean |
|----------------|---------|---------|--------------------|-------------------|
| December 2002 | 100p | 100p | 100p | 100p |
| January 2003 | 60p | 80p | 70p | 69.3p |
| Price relative | 0.60 | 0.80 | | |
| January 2003 | 60p | 80p | 70p | 69.3p |
| February 2003 | 100p | 100p | 100p | 100p |
| Price relative | 1.67 | 1.25 | | |

Price indices can now be calculated according to the AR, RA and GM aggregation formula discussed earlier in this article for the sub-periods January 2003 (based on December 2002 = 100) and February 2003 (based on January 2003 = 100), as shown in the table below:

| Price index: | AR | RA | GM |
|---------------------|-------|-------|-------|
| January 2003 | | | |
| (December 2002=100) | 70.0 | 70.0 | 69.3 |
| February 2003 | | | |
| (January 2003=100) | 145.8 | 142.9 | 144.3 |

These indices can now be chained together to produce an index covering the full period based on December 2002=100 as shown below. Denoting an index for period t based on time 0 as $I_{\nu n}$:

$$I_{\text{Feb03/Dec02}} = (I_{\text{Feb03/Jan03}} / 100) \times I_{\text{Jan03/Dec02}}$$

In the AR case this is equal to $(145.8/100) \times 70.0 = 102.1$

In other words, the AR aggregation method combined with chain linking suggests that the price of the item in February remains around 2 per cent above its December level, despite the fact that all the prices sampled have returned exactly to their December starting points. In the case of RA and GM approaches, by contrast, it is easily verified (ignoring rounding effects) that the corresponding chain-linked indices are both exactly 100.0 in February, and so are not affected by price bounce.

This bias in the AR method is a product of chain-linking and the behaviour of prices across the chain link. Specifically, price changes are negatively correlated across the chain link: in this example, price falls are followed by price increases. But if prices in February 2003 had been compared *directly* with December 2002, it is clear that the average of the two price relatives would be equal to 1, and so a direct AR index with no chaining would also show an index level of 100 in February.

Although the overall impact of price bounce on RPIX is much smaller than suggested by the contrived example set out in Box 6, it does make an important contribution to the overall size of the formula effect set out earlier in this article. Since RPIX is annually chain linked each January, and price movements for many items are negatively correlated across this link period due to New Year sales, the use of AR for certain products leads to a greater estimate of price change than the GM technique employed in the CPI.

It is now also clear that detailed index construction choices, such as the choice of base month or sampling procedures, when combined with the AR aggregation method, can have a significant impact on the measured rate of inflation. The GM approach, by contrast, is much more robust to such factors. This important point is considered further in the next section.

Evaluating RPIX and the CPI as macroeconomic indicators of inflation

The Government's monetary policy framework was introduced in 1997. The Monetary Policy Committee of the Bank of England now has full operational independence to set interest rates to meet the symmetrical inflation target set by the Government. Section 11 of the Bank of England Act states that the primary objective of monetary policy is to maintain price stability, and subject to that, the Bank is required to support the Government's objectives on growth and employment. These objectives and the policy framework are described in detail in Balls and O'Donnell (eds.) (2002) *Reforming Britain's Economic and Financial Policy*.

There are a number of criteria which are relevant in assessing the merits of alternative inflation measures from an economic policy perspective:

- The conceptual basis that is adopted to record transaction prices. There are three main approaches: acquisition, payments and user cost (or consumption).¹⁶
- The scope of the index, and in particular the extent to which the transactions covered by the index correspond with those which monetary policy is intended to influence. This will be determined by commodity coverage and the population basis of the index.
- The index should be unbiased in relation to what it is trying to measure. Bias can take a number of forms, including those arising from changes in quality of the products being priced, or differences due to the formulae used for aggregation purposes.
- In terms of its basic usability, a price index should be timely (that is, available sufficiently quickly after the period to which it relates), accurate, subject to minimal revisions, and published with sufficient frequency to be fit for purpose.

In terms of the basic usability criteria, both RPIX and the CPI are published to a common timescale, and likewise both are subject to the minimum of revision (in the case of RPIX, there are no revisions). This partly reflects the similarities in their basic approach to the measurement of inflation, the large degree of overlap in commodity coverage, and the fact

that the raw price data feeding into each index is the same in most cases. However, in comparing the statistical properties of RPIX and the CPI, this article has already presented a range of evidence that is relevant in assessing RPIX and the CPI according to the other criteria. The key points are reviewed below.

In the last decade, a global consensus has begun to emerge about the desirable form of consumer price indices appropriate for measuring inflation at a macroeconomic level. This consensus has helped to shape the CPI during its development, meaning that it has some distinct advantages over RPIX as a macroeconomic indicator of inflation, partly reflecting the fact that the latter was not developed specifically for this single purpose. From a statistical perspective, these advantages fall under two broad headings:

- coherence of CPI coverage with other macroeconomic data
- the use of the geometric mean aggregation technique.

Coherence of the CPI with other macroeconomic data stems from the fact that CPI commodity and population coverage largely follows National Accounts principles. Commodity coverage is rooted in the European System of Accounts 1995 (ESA95) definition of household final consumption and the population basis likewise matches that used in the National Accounts. CPI weights therefore are based on the final consumption expenditures of all individuals in the domestic territory, including spending by private households, institutional households (such as nursing and residential homes) and foreign visitors. Unlike RPIX, expenditures of high and low-income households are not excluded from the CPI. National Accounts principles have also influenced the classification of goods and services within the index whereas the RPI employs its own unique classification system.

Following from the previous section, it can be also be seen that use of the GM aggregation formula has some advantages in relation to the AR technique that is applied for some parts of RPIX. It has been shown that the use of AR can lead to a small upward bias in a price index depending on the behaviour of prices across the chain link. In addition, the use of GM in the CPI facilitates cross-country comparisons of inflation rates since it is more robust to detailed index construction choices, such as sample design and the coverage and definition of the elementary aggregates used to construct price indices. This was clearly a key requirement for HICPs in the EU context, but the use of GM is an advantage for international comparisons more generally.

The geometric mean is increasingly preferred in other countries. For instance, in recent years Canada, the USA, and Australia have switched to using the geometric mean in their national consumer price index. Among the UK's partners in the EU: six use the geometric mean (Sweden, Italy, Finland, Portugal, Luxembourg and Greece); four use the ratio of averages variant of the arithmetic mean (Spain, Belgium, Ireland and the Netherlands); and four use a mixture of the geometric mean and ratio of averages (France, Denmark, Germany and Austria). Internationally, very few countries use the AR technique.

Against this, at present one key advantage of the RPI and its derivatives such as RPIX is their familiarity and credibility built upon a long history. This impacts on public perception and so adds to their acceptability as measures of inflation. By definition, this type of credibility takes time to build, and it will inevitably be some period before the CPI becomes as widely recognised. It is intended that this article will help in this process.

In addition, the CPI's exclusion of most elements of owneroccupier housing costs is an outstanding issue, and lessens its relevance for some users. However, this must be weighed against the significant difficulties encountered in measuring such costs appropriately, reflected in the absence of any international consensus in this area. RPI's detailed treatment of owner-occupier housing costs mainly reflects its important history as a compensation index, and has necessitated significant compromises in conceptual consistency in this area. For most categories of expenditure, the RPI can be considered an acquisitions index but, in the area of owneroccupiers housing costs, the inclusion of mortgage interest payments and house depreciation reflects elements of the user cost approach. From the perspective of a macroeconomic indicator of inflation, the inclusion and appropriate treatment of owner-occupier housing costs in consumer price indices raises a number of difficult statistical challenges. These are described in the next section.

Owner-occupier housing costs

It is very difficult to establish an international or even national consensus concerning the treatment of owner-occupier housing costs in consumer price indices. This is reflected in the limited coverage of owner-occupier housing costs in the HICP, and the slower evolution of an EU-wide consensus, despite the strong arguments for their inclusion in consumer price indices as a matter of principle.

The various options for the treatment of owner-occupier costs in the RPI were last considered by an RPI Advisory Committee in 1992–94 (Cmd 2717). The Committee concluded that mortgage interest payments should continue to be included in the RPI and that a new component of shelter costs should be introduced to represent the cost of depreciation of owner-occupied dwellings. Depreciation was intended to represent the ongoing, though typically infrequent, major costs homeowners face in maintaining the standard of their properties¹⁷, and it was decided that depreciation costs should be measured via a smoothed house price index.

RPIX excludes mortgage interest payments but includes the depreciation component, as well as a range of other owner-occupier housing costs including buildings insurance and various house purchase costs including estate agents' and conveyancing fees. RPIX also includes council tax, primarily reflecting its importance in household budgets, and the fact that it might be viewed as expenditure for specific local services received. However, from a National Accounts perspective, council tax is treated as a direct tax rather than household final consumption, and so is not included in the HICP.

The current treatment of owner-occupier housing costs in the RPI can be seen as a compromise in terms of the conceptual consistency of the index. The inclusion of mortgage interest payments, as a key component of actual payments made by owner-occupier households, can be viewed as important from the perspective of the income-related uses of the RPI, even though the index can be seen as acquisitions-based in most other areas. The measurement of depreciation costs through house prices also causes problems in that the latter are strongly influenced by land prices in the UK, which is likely to distort estimates of depreciation costs for the dwellings. Moreover, inclusion of house prices means that the index is affected by changes in the price of a major household asset, and hence a wide range of factors that determine household investment portfolio decisions.

An alternative approach to measuring owner-occupier housing costs is one based on the net acquisitions concept. Under this approach owner-occupier housing costs would include total expenditure on acquiring newly built or converted dwellings or existing dwellings newly acquired by the household sector (for example, purchases of council houses from local authorities). It is argued that the land element should be excluded from house purchase costs in principle in that it is a non-produced asset, whereas the focus for a consumer price index should be the acquisition of produced goods and services only, in this case the dwellings.

As with the introduction of depreciation into the RPI in 1995, a key problem arises in that none of the house price indices currently available in the UK exclude the price of land, and this can exaggerate changes in the cost of the dwellings themselves. The impact will be significant if land represents a high proportion of overall house prices and its price moves differently from the house construction costs and construction companies' profits. Indeed, there is good evidence, for example at the regional level, that changes in the price of land have a strong impact on UK house prices.

Notwithstanding these conceptual arguments, treatment of land in national consumer price indices is diverse. Exclusion

of land prices is not regarded as essential in some other countries that include house prices in their national consumer price indices. Moreover, in countries where households often purchase plots of land separately (as distinct from a dwelling including land), it is in some cases considered important that the coverage of the national consumer price index should include land.

The ONS, along with the national statistical offices of Spain, Germany, Poland and Finland, is taking part in a preliminary Eurostat pilot study to assess the possibility of including in the HICP an index of owner-occupier housing costs based on the net acquisitions approach. Under this approach, costs would also include estate agents' fees, conveyancing fees, stamp duty, dwellings insurance and major repairs and renovations, which are currently excluded from the HICP, as well as the cost of the dwelling itself (excluding land).

The possible treatment of owner-occupier housing costs in the HICP, and their actual treatment in the RPIX, is summarised in Table 2. It is important to note that the figures in the table are indicative at this stage. While it is likely that the total weight of owner-occupier housing costs could be at least as large in an augmented HICP as in RPIX, the composition would be different. In particular, the weight of depreciation or major repairs and renovations would be lower in the HICP, possibly 2.5 per cent, compared with their current weight of 4.4 per cent. Since major repairs and renovations would probably be measured in an extended HICP through an index of construction costs, this is likely to mean that the weight of house prices would be lower than in RPIX.

The pilot study is now close to completion and could be extended, subject to funding in 2004, to embrace all Member States. However, there are a number of difficult implementation issues to be addressed, and this means that the longer-term outcome cannot be assessed with any certainty at this stage. Any extension of the HICP to cover owner-occupier housing costs is not likely to take place before January 2006 at the earliest, and could take longer.

Table 2: Possible treatment of owner-occupier housing costs in the HICP compared with RPIX

| | Treatment | RPIX weight (per cent, 2003) | Indicative HICP weight ¹ (per cent) |
|-------------------------------|---|------------------------------|---|
| Major repairs and renovations | Represented in RPIX by house depreciation, and proxied by house prices. | | |
| | Represented by construction costs in HICP | 4.4 | 2.5 |
| Net acquisitions of dwellings | Excluded from RPIX. Represented by price of new houses and purchases | | |
| | from other sectors in HICP | Excluded | 2.0-2.5 |
| House transactions costs | RPIX includes conveyancing fees and estate agents' fees. In addition, the | | |
| | HICP would also include stamp duty | 0.6 | 1.0-2.0 |
| Dwellings insurance | Weight in RPIX based on cost of gross premiums. HICP weight based on | | |
| | net premiums (i.e. net of claims paid out) | 0.7 | 0.1 |
| Total | | 5.7 | 5.6-7.1 |

¹Based on the net acquisitions approach. Illustrative figures using best available data

Notes

- 1. This article was originally published on the National Statistics website on 10 December 2003 to coincide with the Chancellor's Pre-Budget Report 2003 statement. The authors are grateful for a number of helpful comments received on the article and so this version contains some clarifications, although the key points and conclusions are unchanged. Significant input and advice from Jim O'Donoghue of the Office for National Statistics is likewise gratefully acknowledged.
- 2. For instance, the basic sample survey data on incomes and taxes paid is not up-to-date and so must be projected forward. In addition, it is assumed for simplicity that all changes in taxes and allowances announced in the annual Budget impact from the beginning of the financial year.
- 3. More accurately, the RPI and CPI are described as 'Laspeyres-type' indices. To be true Laspeyres indices, the base period used to calculate the quantities of the items in the basket must coincide with the base date for the measurement of prices (both in time and period). Since the RPI and CPI measure prices with reference to the previous January, matching weights data is not usually available, and would be unreliable over such a short period. In practice, data for the most recent available 12 months are used.
- 4. As described later in the article, the CPI does allow for substitution at a more detailed level, that is between different brands or varieties of particular products.
- 5. A Paasche index, the third major form for price indices, is calculated as the current cost of purchasing a basket of goods and services reflecting the current period's purchasing patterns relative to the cost of purchasing the same basket at some earlier period's prices. Denoting the Laspeyres index in period t based on based on period 0 as L_{1.0} and the corresponding cost of living and Paasche indices as COLI_{t,0} and P_{t,0} respectively, it is always the case that $L_{t,0} \ge COLI_{t,0} \ge P_{t,0}$. The intuition is similar for both inequalities. Just as L typically exceeds the COLI because there is a lower cost route to achieving the same level of utility associated with the previous period's basket through substitution, the COLI generally exceeds P because the level of utility associated with the current period's purchases could likewise be achieved at lower cost in the earlier period by varying quantities purchased to suit the previous period's prices.
- Official figures for the CPI are available from January 1996. CPI inflation rates for the period January 1989 to December 1996 are those estimated by O'Donoghue (1998).
- It should be noted that housing depreciation costs have only been included in the RPI and RPIX from 1995, and so longer-run comparisons should be undertaken with caution.
- 8. The community charge was later replaced by the council tax which is likewise included in RPI and RPIX but excluded from the CPI.

- 9. The CPI does include regular maintenance and repair of the dwellings and also water and sewerage charges.
- 10. As measures of price change alone, both RPIX and the CPI are designed to track changes in the prices for goods and services of constant quality. When products in the RPI and CPI samples disappear or are replaced with new versions of a different quality or specification, it is important that prices are adjusted to ensure a 'like for like' comparison. Under the option cost method, these adjustments are based on the cost of the additional features contained in the new model when bought separately or as an additional option. The hedonic approach by contrast uses regression analysis to relate the price of various product models to their observable characteristics as the basis for valuing changes in quality. Ball and Andrew (2003), 'The introduction of hedonic regression techniques for the quality adjustment of computing equipment in the Producer Prices Index (PPI) and the Harmonised Index of Consumer Prices (HICP)', available on the National Statistics website, provides further detail.
- 11. This proposal is for consideration under the terms of the National Statistics Code of Practice and, if adopted, would take effect from the indices for February 2004 which will be published in March 2004. Treasury ministers are seeking the opinion of the Bank of England for its view on the likely impact of these changes, as outlined in the relevant prospectuses for index-linked gilts.
- 12. The simple or unweighted geometric mean of a set of n values $x_1...x_n$ is equal to the nth root of the product of the n values. For example, the geometric mean of 2, 4 and 8 is equal to $\sqrt[3]{(2x4x8)} = \sqrt[3]{64} = 4$. Note that the corresponding arithmetic mean is larger, at (2+4+8)/3 = 4.7.
- 13. It is easily verified that the unweighted geometric mean of the price changes described in the illustrative scenario set out in Box 3 is exactly equal to the increase in income that was needed to maintain living standards at the new prices. Returning to the results set out in the box and equating utility in the two periods (denoted time 0 and 1), we have $U_0 = U_1 \text{ or } F_0 {}^{\alpha} C_0^{1-\alpha} = F_1 {}^{\alpha} C_1^{1-\alpha}. \text{ Substituting in expressions for } F_0, C_0, F_1, C_1 \text{ from equations (4) and (5) it can be shown that:}$

$$Y_{1}/Y_{0} = (P_{f,1}/P_{f,0})^{\alpha} \cdot (P_{c,1}/P_{c,0})^{1-\alpha}$$

That is, the change in the cost of living is equal to the weighted geometric mean of the price relatives. If α =1/2, as in the scenario set out in Box 3, this is also equal to the simple (unweighted) geometric mean of the price changes. Use of the *unweighted* GM formula to construct an elementary index therefore is consistent with consumer preferences where the elasticity of substitution between each specific element within the aggregate is equal to 1, with the further assumption that the utility derived, all other things being equal, from a given quantity purchased of any of the items is the same. In the case of elementary aggregates, in which the prices of various brands or varieties of a particular item collected

- in a specific region of the UK are combined, this latter assumption seems plausible. By allowing for substitution at this low level, the CPI is closer to a cost of living index than a 'pure' price index such as RPIX.
- 14. In practice, the elasticity of substitution between particular products is likely to vary. For example, there is not likely to be much substitution in the case of adult replica football shirts, whereas brand loyalty for say washing powder is probably much lower.
- 15. Likewise if prices were to rise and then fall by the same amount over the chain link, the index would remain above 100. In other words, price bounce occurs whenever price changes are *negatively* correlated across the link month.
- 16. Under the *acquisition* approach the total value of all goods and services delivered during a given period, whether or not they were wholly paid for during the period, is taken into account. With *payments*, the total payments made for goods and services during a given period, whether or not they were delivered, is taken into account. Finally, *user cost* (*or consumption*) considers the total value of all goods and services consumed during a given period. The distinction between the three approaches is particularly important for purchases financed by some form of credit, notably major durable goods and housing, which are acquired at a certain point of time, used over a considerable number of years, and paid for, at least partly, some time after they were acquired, possibly in a series of instalments.
- 17. Depreciation might be thought of as the costs of major repairs and renovations, with minor maintenance and decorating costs covered elsewhere in the index.

Appendix A: Historical background to the development of the RPI

Cost of living index

Although there were occasional official comparisons of prices for food in the late 19th century and early 20th century, the Government first began a systematic, continuous check on the increase in the cost of living in 1914. From July of that year, the Board of Trade instituted a regular monthly inquiry into the retail prices of the principal items of working class family expenditure, publishing the percentage change each month in its *Gazette*. The published figures initially related only to food prices, but after June 1916 the index was expanded and calculated retrospectively to cover clothing, fuel and some other items.

The new index was accepted as a valuable aid towards protecting ordinary workers from what were initially expected to be temporary economic consequences of the First World War. The information used for weighting together the components of the index was crude in the extreme. Expenditure data obtained from a survey of urban working class households back in 1904 was constrained by highly subjective assessments of what constituted legitimate expenditure for a working class family. For example, beer was completely excluded and the weight used for tobacco was much less than the actual proportion of expenditure on tobacco.

Between the World Wars

This index, with unchanged weights, was produced throughout the 1920s and 1930s. Criticism mounted, especially towards its out-of-date weights (by the 1930s, candles and lamp oil were grossly over-weighted while electricity was completely excluded and ready made clothing was under-weighted). In 1936, the Ministry of Labour announced the institution of a large-scale household expenditure inquiry to update the weights; this was carried out in 1937–38. However, by the time the results became available, war had broken out and further action on the revisions was deferred.

After World War 2

In 1946, a new committee, the Cost of Living Advisory Committee, was set up. An interim report in 1947 advised that as a short-term measure, the results of the 1937–38 expenditure inquiry should be used to update the weights until a new inquiry, reflecting vastly different post-war spending patterns, could be carried out. It also recommended some fundamental changes in, for example, the selection and number of representative items for which prices should be collected. This new index, the Interim Index of Retail Prices, started in June 1947 and ran on (with some minor modifications and a re-basing in January 1952) to January 1956, and laid many of the foundations for the compilation of the modern RPI.

By the beginning of 1955, sufficient information from the Household Budget Inquiry became available for the committee to formulate a new index. This became the first official Retail Prices Index (RPI) and began from January 1956. Among the changes brought in at this stage were:

- expansion of scope of households included in the RPI from just working classes to all wage earners, excluding extremely high and low-earning households
- a firm definition of the RPI for the first time
- a definition of the scope of the index, which largely remains today
- a new structure that, by and large, continued to 1987
- the first serious attempt to measure owner-occupier housing costs.

The committee also recommended that the Household Budget Inquiry should become a continuous survey. This led to the creation of the regular Family Expenditure Survey (FES) from 1957. Once these data settled down, the weights could be revised annually and this process, which continues to the present day, was begun with a re-basing of the RPI in January 1962. A new Expenditure and Food Survey (EFS) was launched in April 2001 to replace the FES and the National Food Survey.

The 1960s and 1970s

Various changes occurred to the RPI through the 1960s and 1970s, including:

- abolition of the name 'Cost of Living' and the associations it implied
- introduction of a 'meals out' group (now called 'catering') from 1968
- construction of separate 'pensioner' indices from 1969
- several changes to the methods of calculating owneroccupier housing costs, including the introduction of a new method of calculating mortgage interest payments from 1975
- introduction of 'seasonal' weights for fresh fruit and vegetable items from 1975
- introduction of a new index, the Tax and Price Index (TPI) in 1979.

The 1980s

An advisory committee was convened in the early 1980s to review the RPI. It produced a wide-ranging report in 1986, which led to many changes to the RPI from January 1987, when it was again re-based. These recommendations largely form the basis of today's RPI, including the definition, scope and coverage, treatment of subsidies and discounts and treatment of owner-occupier housing costs.

Recent developments

In 1989, responsibility for the production of the RPI moved from the Employment Department to the newly re-organised Central Statistical Office (CSO). There have been two Advisory Committees since then. A report of the earlier committee in 1990 recommended the development of a holidays index, which was further considered by the later committee, leading to the introduction of a component for foreign holidays from 1993 and UK holidays from 1994. The later Advisory Committee produced a report in 1994 which led to the introduction of a new element of owner-occupier housing costs, the 'depreciation costs' component, from January 1995. At the same time, the collection of prices was contracted out to a market research company. In 1996, the Central Statistical Office became part of the new Office for National Statistics.

Appendix B: Main RPI Advisory Committee recommendations

1947 Report (Cmd 7077)

Recommended that the old 'cost of living' index should be terminated and a new price index be constructed based on the 1937–38 expenditure enquiry. The new index started in June 1947.

1951 Report (Cmd 8328)

Recommended that only one official index of retail prices should be published each month, relating to all wage earners and moderate salary earners, and that a new expenditure enquiry should be undertaken as soon as possible to provide up-to-date weighting information.

1952 Report (Cmd 8481)

Recommended certain modifications, which could be introduced immediately, as temporary expedients, until such time as a new index could be produced on the basis of the forthcoming expenditure enquiry. These modifications included the use of improved weights derived from the estimated pattern of expenditure in 1950, and incorporation into the index of information about the rents of houses built since 1947. The re-weighted index was introduced in January 1952.

1956 Report (Cmd 9710)

Recommended that the interim index produced since 1947 should be replaced by a new index, based on the large scale Household Expenditure Enquiry of 1953. The new index was to be designed to cover all households except for those consisting of pensioners mainly dependent on state benefits and those whose head had a gross income of £20 a week or more in 1953. This committee also established the group and section structure of the index which, with some changes, is still in use. Finally, it recommended certain additions to the list of items for which prices were to be collected and some improvements to the methods of obtaining information, particularly as regards the housing group with the introduction of 'equivalent rents' as a measure of owner-occupier housing costs. The recommendations were implemented in January 1956.

1962 Report (Cmd 1657)

Recommended that the index weights should be revised every year, on the basis of information from a new continuous enquiry, the Family Expenditure Survey (FES), which was instituted at the beginning of 1957. This came into effect from the 1962 index. Some changes were proposed in the precision and frequency with which indices were published. This recommendation was implemented with effect from January 1963.

1968 Report (Cmd 3677)

Recommended that: 'meals outside the home' should be included in the index as a separate group from February 1968; that special indices should be compiled and published back to 1962 for the pensioner households excluded from the coverage of the index; that certain changes should be made in the published level of detail. The Committee also recommended that there should be a study of the technical problems that would be involved in comparing price levels in different regions or areas. A technical committee was appointed to carry out the study envisaged.

1971 Report (Cmd 4749)

Endorsed a Technical Committee recommendation that the compilation of regional price indices would be feasible although costly, but were not unanimous as to whether their publication would be desirable. The then Department of Employment did not proceed with compilation.

1974 Report (Cmd 5905)

Recommended that owner-occupier housing costs should be represented in the index by mortgage interest payments, instead of the equivalent rents formerly used. This came into effect in 1975. The Committee also recommended that the RPI weights should in general be based on FES results for the latest twelve months rather than the latest three years, and that variable monthly weights should be introduced for fruit and vegetables. The recommendations were implemented almost immediately.

1977 Report (*Employment Gazette*, February 1978 article)

Recommended that certain component indices should be published in more detail and that when combining price quotations, there should be stratification by region and shop type.

1986 Report (Cmd 9848)

This report covered a wide range of issues and consolidated much of the general documentation on the compilation of the RPI. Recommendations included: changing the reference date for the RPI to January 1987=100; updating the group and section structure of the RPI; the production of indices for holidays as soon as possible subject to resolution of technical problems; to publish indices for more services; that the income limits used to define index households should relate to the household as a whole rather than the head of a household; that component indices with a weighting of more than five parts per 1000 should be published; that no allowances should be made for subsidies and discounts provided on a selective basis and funded by a third party; further recommendations on the construction of indices for owner-occupier housing costs; further modifications on the

weighting and definition of seasonal foods; recommendations on the treatment of quality changes. Most of these recommendations were implemented with effect from 1987.

1989 Report (Cmd 644)

Recommended that the community charge be included in the RPI, subject to the principles on the treatment of discounts and subsidies established by the previous Committee. This Committee, like many before it, also defined the exact price indicator to be used for the new item. Although the Committee was asked to look at other issues, due to the urgency of the community charge issue, they decided to make their recommendations for this in this report and then to deal with the other points in a subsequent report, which became the 1990 report. The community charge was introduced in April 1989 in Scotland and the following year in England and Wales.

1990 Report (Cmd 1156)

Recommended the compilation of 'pilot' indices for holidays in both the UK and abroad with a view to including them in the RPI at a later date, subject to the resolution of certain technical problems. The committee also made several recommendations on the coverage of financial services in the index and reviewed the progress on some of the long-term improvements suggested by the 1986 Committee.

1993 Reports (Cmd 2142 and 2153)

When the community charge was replaced by the council tax, another committee was set up to review the treatment of local taxation in the index. It recommended that the council tax be included from its introduction in April 1992, and made several recommendations on the measurement of the price indicator. The Committee's Terms of Reference were then extended to look at the inclusion of a holidays index and the treatment in the RPI of new cars and owner-occupier housing costs. The committee also recommended the introduction of a holidays index. The foreign holidays index was introduced in 1993 and the UK holidays index in the following year. The Committee continued to look into the other issues, which led to a further set of reports.

1994 Reports (Cmd 2716 and 2717)

The first of these command papers recommended that direct measurement of new car prices could not yet be brought into the RPI but that the Department should continue technical investigations. Meanwhile, it recommended certain small changes to the way that used car prices were measured and that these should be used as a proxy for new car prices. The second paper looked at the treatment of owner-occupier housing costs and recommended the introduction of a second component to go alongside mortgage interest payments, a 'depreciation costs' component, of which the price indicator should be a house price index. The depreciation component was introduced into the RPI with effect from February 1995.

Appendix C: Analysis of differences in CPI and RPIX annual rates

| | | ween annual rates IX (per cent) | E | Breakdown of differences (percentage | _ |)1 |
|----------------------|--------------------|------------------------------------|---|---|--------------------------------|-----------------------------------|
| | rounded figures | unrounded figures | Housing components excluded from CPI | Other differences in commodity coverage ^{2,3,4} | Formula effect ^s | Other differences ⁶ |
| 1997 Jan | <i>-</i> 1.0 | -0.93 | -0.24 | -0.17 | -0.50 | -0.02 |
| 1997 Feb | -0.9 | -0.95 | -0.18 | -0.19 | -0.51 | -0.06 |
| 1997 Mar | -1.0 | -0.94 | -0.17 | -0.18 | -0.55 | -0.03 |
| 1997 Apr | -1.0 | -0.91 | -0.13 | -0.19 | -0.54 | -0.05 |
| 1997 May | -0.9 | -0.95 | -0.19 | -0.15 | -0.54 | -0.06 |
| 1997 Jun | -1.0 | -0.97 | -0.23 | -0.14 | -0.54 | -0.06 |
| 1997 Jul | -1.0 | -0.91 | -0.22 | -0.11 | -0.54 | -0.04 |
| 1997 Aug | -0.8 | -0.89 | -0.22 | -0.13 | -0.55 | 0.00 |
| 1997 Sep | -0.9 | -0.89 | -0.24 | -0.10 | -0.51 | -0.03 |
| 1997 Oct | -0.8 | -0.95 | -0.24 | -0.13 | -0.50 | -0.03 -0.07 |
| 1997 Oct | -0.9 | -0.91 | -0.25 | -0.14 | -0.49 | -0.02 |
| 1997 Nov 1997 Dec | -0.9 | -0.95 | -0.29 | -0.14 -0.17 | -0.50 | 0.02 |
| 1337 Dec | 0.5 | 0.33 | 0.23 | 0.17 | 0.50 | 0.01 |
| 1998 Jan | -1.0 | -0.97 | -0.29 | -0.12 | -0.48 | -0.08 |
| 1998 Feb | -1.1 | -1.02 | -0.27 | -0.09 | -0.55 | -0.11 |
| 1998 Mar | -1.0 | -0.98 | -0.28 | -0.04 | -0.54 | -0.13 |
| 1998 Apr | -1.1 | -1.12 | -0.35 | 0.00 | -0.52 | -0.25 |
| 1998 May | -1.2 | <i>–</i> 1.13 | -0.35 | 0.01 | -0.55 | -0.23 |
| 1998 Jun | -1.1 | -1.16 | -0.38 | 0.04 | -0.56 | -0.26 |
| 1998 Jul | -1.1 | -1.20 | -0.42 | 0.04 | -0.55 | -0.27 |
| 1998 Aug | -1.2 | -1.21 | -0.44 | 0.10 | -0.54 | -0.33 |
| 1998 Sep | -1.0 | -1.17 | -0.42 | 0.11 | -0.53 | -0.33 |
| 1998 Oct | -1.2 | -1.12 | -0.43 | 0.14 | -0.51 | -0.31 |
| 1998 Nov | -1.1 | -1.16 | -0.44 | 0.14 | -0.54 | -0.32 |
| 1998 Dec | -1.1 | -1.08 | -0.42 | 0.20 | -0.56 | -0.31 |
| 1999 Jan | -1.0 | -1.03 | -0.43 | 0.19 | -0.52 | -0.27 |
| 1999 Feb | -0.9 | -1.00 | -0.44 | 0.20 | -0.51 | -0.25 |
| 1999 Mar | -1.0 | -0.99 | -0.43 | 0.16 | -0.50 | -0.22 |
| 1999 Apr | -0.9 | -0.90 | -0.39 | 0.13 | -0.49 | -0.15 |
| 1999 May | -0.8 | -0.84 | -0.38 | 0.13 | -0.46 | -0.12 |
| 1999 Jun | -0.8 | -0.86 | -0.41 | 0.16 | -0.47 | -0.15 |
| 1999 Jul | -0.9 | -0.97 | -0.36 | 0.17 | -0.51 | -0.27 |
| 1999 Aug | -0.8 | -0.91 | -0.37 | 0.18 | -0.48 | -0.25 |
| 1999 Sep | -0.9 | -0.92 | -0.40 | 0.17 | -0.49 | -0.20 |
| 1999 Oct | -1.0 | -1.06 | -0.46 | 0.13 | -0.50 | -0.24 |
| 1999 Nov | -0.9 | -1.02 | -0.44 | 0.14 | -0.50 | -0.22 |
| 1999 Dec | -1.0 | -1.01 | -0.44 | 0.12 | -0.50 | -0.19 |
| 2000 1 | 4.3 | 1.20 | 0.57 | 0.05 | 0.55 | 0.33 |
| 2000 Jan | -1.3 1.3 | -1.30 1.31 | -0.57 | 0.05 | -0.55 | -0.23 |
| 2000 Feb | -1.2 | -1.21 1.26 | -0.53 | 0.14 | -0.59 | -0.23 |
| 2000 Mar | <i>–1.3</i> | <i>–1.36</i> | -0.56 | 0.12 | -0.58 | -0.34 |
| 2000 Apr | <i>–</i> 1.3 | -1.40 | -0.55 | 0.12 | -0.63 | -0.35 |
| 2000 May | -1.5 | -1.44 | -0.58 | 0.11 | -0.64 | -0.33 |
| 2000 Jun | -1.4 | -1.49 | -0.61 | 0.08 | -0.65 | -0.30 |

| | | veen annual rates ((per cent) | Breakdown of differences (unrounded figure (percentage points) | | |)1 |
|----------|--------------------|-----------------------------------|---|---|--------------------|-----------------------------------|
| | rounded figures | unrounded figures | Housing components excluded from CPI | Other differences in commodity coverage ^{2,3,4} | Formula effect⁵ | Other differences ⁶ |
| 2000 Jul | -1.2 | -1.33 | -0.62 | 0.09 | -0.64 | -0.15 |
| 2000 Aug | -1.3 | -1.29 | -0.64 | 0.06 | -0.66 | -0.04 |
| 2000 Sep | -1.2 | -1.26 | -0.63 | 0.03 | -0.68 | 0.01 |
| 2000 Oct | -1.0 | -1.02 | -0.55 | 0.07 | -0.65 | 0.11 |
| 2000 Nov | -1.2 | -1.14 | -0.51 | -0.01 | -0.66 | 0.04 |
| 2000 Dec | -1.1 | -1.22 | -0.56 | -0.03 | -0.61 | -0.03 |
| 2001 Jan | -0.9 | -0.92 | -0.49 | 0.05 | -0.58 | 0.11 |
| 2001 Feb | <i>–</i> 1.1 | -1.12 | -0.55 | -0.15 | -0.56 | 0.15 |
| 2001 Mar | -0.9 | -1.02 | -0.55 | -0.11 | -0.57 | 0.22 |
| 2001 Apr | -0.9 | -0.78 | -0.53 | 0.03 | -0.52 | 0.23 |
| 2001 May | -0.7 | -0.78 | -0.47 | 0.04 | -0.52 | 0.16 |
| 2001 Jun | -0.7 | -0.74 | -0.41 | 0.02 | -0.50 | 0.15 |
| 2001 Jul | -0.8 | -0.75 | -0.51 | 0.18 | -0.51 | 0.09 |
| 2001 Aug | -0.8 | -0.79 | -0.52 | 0.20 | -0.49 | 0.02 |
| 2001 Sep | -1.0 | <i>-1.00</i> | -0.55 | 0.00 | -0.45 | 0.00 |
| 2001 Oct | -1 .1 | -1.12 | -0.54 | -0.04 | -0.48 | -0.05 |
| 2001 Nov | -1.0 | -1.00 | -0.56 | -0.08 | -0.44 | 0.09 |
| 2001 Dec | -0.9 | -0.84 | -0.50 | 0.02 | -0.48 | 0.11 |
| 2002 Jan | -1.0 | -0.90 | -0.47 | -0.04 | -0.50 | 0.10 |
| 2002 Feb | -0.7 | -0.76 | -0.41 | 0.02 | -0.42 | 0.05 |
| 2002 Mar | -0.8 | -0.73 | -0.40 | 0.09 | -0.42 | 0.01 |
| 2002 Apr | -1.0 | -0.96 | -0.52 | -0.02 | -0.42 | 0.01 |
| 2002 May | -1.0 | -0.96 | -0.62 | 0.01 | -0.42 | 0.07 |
| 2002 Jun | -0.9 | -0.87 | -0.74 | 0.13 | -0.42 | 0.15 |
| 2002 Jul | -0.9 | -0.85 | -0.76 | 0.17 | -0.41 | 0.15 |
| 2002 Aug | -0.9 | -0.88 | -0.80 | 0.20 | -0.43 | 0.15 |
| 2002 Sep | -1.1 | -1.09 | -0.85 | 0.12 | -0.43 | 0.07 |
| 2002 Oct | -0.9 | -0.96 | -0.97 | 0.15 | -0.41 | 0.27 |
| 2002 Nov | -1.2 | -1.23 | -1.06 | 0.10 | -0.43 | 0.17 |
| 2002 Dec | -1.0 | -1.09 | -1.15 | 0.40 | -0.47 | 0.12 |
| 2003 Jan | -1.3 | -1.42 | -1.22 | 0.24 | -0.42 | -0.01 |
| 2003 Feb | -1.4 | -1.41 | -1.21 | 0.24 | -0.43 | 0.00 |
| 2003 Mar | -1.4 | -1.49 | -1.17 | 0.18 | -0.43 | -0.07 |
| 2003 Apr | -1.5 | -1.56 | -1.32 | 0.12 | -0.44 | 0.08 |
| 2003 May | -1.7 | -1.61 | -1.26 | 0.05 | -0.44 | 0.05 |
| 2003 Jun | -1.7 | -1.70 | -1.20 | -0.06 | -0.46 | 0.01 |
| 2003 Jul | -1.6 | -1.61 | -1.13 | -0.24 | -0.43 | 0.19 |
| 2003 Aug | -1.5 | -1.57 | -1.09 | -0.31 | -0.41 | 0.24 |
| 2003 Sep | -1.4 | -1.36 | -1.07 | 0.01 | -0.44 | 0.14 |
| 2003 Oct | -1.3 | -1.30 | -0.99 | 0.04 | -0.44 | 0.10 |

^{1.} Estimates of the contributions from the individual factors are calculated independently and are not strictly additive.

^{2.} From January 2000, CPI coverage was extended to include some health, education, insurance and social protection services (such as child minding). The population basis for the CPI weights was broadened at the same time to include expenditure by foreign visitors and residents of institutional households in addition to private households. These changes impact on the estimates in this column. See also notes 3 and 4.

^{3.} From January 2001, CPI coverage was extended to include some hospital services, nursing and retirement homes.

^{4.} From January 2002, CPI coverage of financial services was extended to include services charged as a proportion of the transaction value, such as foreign exchange commission, unit trust and stockbroking fees.

^{5.} Difference due to the use of different formulae to aggregate prices at the most basic level.

^{6.} Derived as a residual. Includes differences due to the different weights attached to items in the CPI and RPIX booklets.

Reviewing the methods and approaches of the UK National Accounts

Amanda Tuke and Vanna AldinOffice for National Statistics

The Office for National Statistics has initiated a re-engineering project with the aims of reducing processing risks and improving the quality of the UK's National Accounts.

A review of the methods used to compile the UK's National Accounts was commissioned from David Caplan, the head of National Accounts co-ordination at the ONS. He carried out an evaluation of different methods and approaches to compiling the National Accounts, with reference to documented methods and informal discussions with other National Statistical Institutes. This led to a series of recommendations for UK National Accounts methods.

The recommendations have implications for further methods development, revisions management and the effective communication of changes to National Accounts users. This article summarises the review and recommendations before outlining the implications of these recommendations from the perspective of a National Accounts user.

Background to the review

The UK National Accounts will be subject to a major re-engineering project over the next few years. The main aims of the project are to reduce processing risks and improve quality. The project presents an opportunity to review the methods and approaches used in UK and to build on the strengths of the UK National Accounts. It will also furnish the opportunity to compare our accounts with international best practice and to identify improvements to existing methods and approaches to produce a blueprint for the future UK National Accounts with a clear focus on user needs.

The UK National Accounts provide the basis for analysing the economic performance of the country. The key National Accounts users, particularly within Government and the Bank of England, use the accounts as major inputs to decisions on fiscal and monetary policy. Large parts of the accounts have a legal basis in the European Union. Most importantly Gross National Product (Income) is used as the tax base for contributions to the EU budget. There are also many users in the business and research communities, education, media and general public.

The UK was at the centre of the development of National Accounts. The first official accounts were developed during the Second World War under the leadership of Nobel laureates James Meade and Richard Stone. The scope and content of the UK accounts has developed considerably since those early days, as quarterly accounts were introduced in the 1950s. Financial accounts and balance sheets were added later. Three relatively recent developments are worth noting. Firstly, during the late 1980s, there were major concerns about the reliability of UK economic statistics and the subsequent Pickford Report led to a number of changes, including the centralisation of National Accounts compilation within the Central Statistical Office (CSO) and then the introduction of supply and use tables. Secondly, in 1998, the ONS modified its accounts to adopt the conventions of the European System of Accounts, 1995 (ESA95), leading to changes in compilation methods, and changes to the presentation and description of economic series. Most recently, in September 2003 ONS adopted the annual chain-linking method for estimating economic growth, in line with international guidelines.

Overview of the existing UK National Accounts methods and approaches

Introduction

ONS produces a comprehensive set of National Accounts. The main components are quarterly and annual GDP estimates, quarterly and annual sector and financial accounts, financial and non-financial balance sheets. Trade statistics, the balance of payments, the public sector and some short-term indicators of economic activity are all integrated within the system of National Accounts.

Gross domestic product (GDP)

GDP is estimated in the UK using the three theoretical approaches (production, expenditure and income) with a single estimate then being derived and emphasised (see SNA93 and *Concepts*, *Sources and Methods* for terminology). There are different approaches to annual and quarterly estimation with subsequent integration. Two key principles drive GDP estimation in the UK:

- **Principle 1** the level of GDP is best estimated using a supply and use framework.
- **Principle 2** short-term growth is best estimated using the production measure of GDP.

A production measure at current prices is estimated using data mainly from the Annual Business Inquiry and this is placed alongside expenditure and income measures. Consistency and coherency for current price estimates are achieved through a 123-products-by-123-industries integrated supply and use framework. Almost all the reconciliation is done manually, although there is some automatic balancing in the final stages of the process. For the latest annual totals (years in which the supply and use approach cannot be applied), GDP is calculated as the average of the three approaches. The discrepancies between the expenditure and income measures and the average are published. An implied deflator is derived from the expenditure measure and this is used to deflate the income measure in current prices to give an income measure as chained volume measures (CVM). It is also used to reflate the production measure as CVM to give a production measure in current prices (see Tuke and Beadle explanation of CVM).

The production measure is the main method for estimating quarterly change in GDP. Quarterly GDP is also estimated using expenditure and income measures. The quarterly growth rates produced by the three measures of GDP are compared in an informal and judgmental process and almost all adjustments are made to income and expenditure components. Full reconciliation (subject to annual constraints) is achieved by making automatic adjustments to the gross operating surplus of non-financial corporations (a component of the income measure) and change in inventories (a component of the expenditure measure). The three measures cannot therefore be described as balanced; rather that expenditure and income measures are adjusted, formally and informally, to produce the same growth as the production measure

Sector and financial accounts including the balance of payments

Sector and financial accounts are compiled for five institutional sectors:

- non-financial corporations (including public corporations)
- · financial corporations
- · general government
- households (including non-profit institutions serving households)
- the rest of the world (see SNA93).

The production and generation of income accounts are derived as part of the compilation of annual supply and use tables. These accounts are available only at the annual frequency and over a year in arrears. Other accounts and financial balance sheets are derived quarterly with the same method being used for annual and quarterly data.

The Dividends and Interest Matrix (DIM) is a key input into sector and financial accounts. The DIM provides estimates of gross payments/receipts of dividends and interest for each sector across a number of different financial instruments. Some cells within the DIM can be estimated by residual, making use of the fact that the sum of transfers across sectors must equal zero. For other cells, estimates are derived from a range of sources, primarily survey data. Government data are used for most 'other transfers'. Financial transactions are estimated quarterly using a range of data. Estimation is within a matrix format to ensure that instrument totals net to zero. For example, household bank borrowing is counterpart to bank lending to households and they should therefore be identical.

The balancing process for sector and financial accounts is carried out by committee drawing on the experience of those involved in the process, and is not mechanised in any way. The balance of payments accounts are fully integrated with the domestic sectors and so are consistent with the 'rest of the world' accounts.

Monthly indicators of economic activity and government data

Short-term indicators include:

- Index of Industrial Production (IoP)
- Index of Distribution (IoD)
- Retail Sales Index (RSI)
- experimental Index of Services (IoS).

The IoP is a monthly indicator incorporated in the quarterly production-based estimate of GDP whereas the IoD and IoS are currently constrained to be consistent with previously published production-based GDP estimates. These three indices are conceptually consistent with the National Accounts. The RSI is a data input to the National Accounts

but, unlike the IoP, is not presented as a National Accounts component and does not share methods with the rest of the accounts.

Estimates of imports and exports of goods and services are also produced monthly on a balance of payments basis.

Fiscal indicators for government are compiled on a National Accounts basis and are consistent with published National Accounts.

Strengths and weaknesses of the UK National Accounts methods and approaches

The UK National Accounts methods and approaches have a strong reputation internationally. This is based primarily on:

- completeness (including sector and financial accounts and a range of monthly indicators)
- · high level of integration
- timeliness of some estimates (particularly early estimates of GDP)
- · strong emphasis on data for short-term indicators.

There are, however, some perceived weaknesses in the UK National Accounts methods and approaches. The issues, which were identified by ONS personnel and external users, include:

Completeness Absence of some accounts, in particular

quarterly production and generation of

income.

Accuracy Suggestion of bias in early estimates.

Coherence Imbalances in sector and financial accounts.

Clarity Lack of transparency and documentation

for some methods and the subjective nature of some approaches, including annual

balancing.

Data efficiency A perception that the quarterly process

does not make full use of data, or that data sources are not strong enough for the purposes for which they are used.

Reliability Revisions to historical data.

The review's recommendations seek both to preserve the strengths of the UK National Accounts methods and address perceived weaknesses.

Recommendations for the UK National Accounts methods and approaches

Methods and approaches in the UK National Accounts which should continue

The scope of the UK National Accounts should be maintained

All of the products included in the UK National Accounts should continue to follow the same conceptual basis and classifications.

National Accounts estimates should continue to be based on data, normally derived from statistical surveys and administrative records.

Annual National Accounts estimates data are the most robust and should continue to be used to provide benchmarks and structures for shorter period estimates.

Expenditure information and income totals should continue to supplement the production-based measure of quarterly GDP.

The sector and financial accounts should continue to be estimated within a matrix framework and transactions should sum across sectors.

Balance of payments statistics and their estimation should continue to be fully integrated with estimation of the domestic sectors in the sector and financial accounts.

Monthly indicators should be compiled where they satisfy a legitimate user-need to provide early indicators of economic activity for monetary and fiscal policy decision-making. They should continue to include GDP and supply and use tables, the sector and financial accounts including the balance of payments and monthly indicators together with government financial indicators and trade statistics.

In the main, this will be the full European System of Accounts (1995 version) and its associated classifications.

This is preferable to more extensive use of econometric modelling. It is inevitable that there will be some variables for which there will not be survey or administrative data available, and when this occurs, explicit, documented estimation methods should be used.

This does not imply that annual estimates are more important than those based on quarterly or monthly data but that they can be more reliably compiled. Quarterly and monthly data will be improved by the use of reliable annual benchmarks.

Expenditure information should be compiled from survey and administrative data and cover all categories of expenditure.

For each institutional sector, the total financial transactions and the estimate for net lending and borrowing from the capital account should be equal.

Recommendations for general changes to the UK National Accounts

New data should be included in the National Accounts as quickly as practicable, subject to the constraints of the production processes.

Data aggregation should be clearly separated from the core National Accounts activities of balancing and data confrontation. Revisions to data are inevitable, as additional survey and administrative sources become available. A clear National Accounts revisions policy will be needed which is consistent with the National Statistics Protocol on Revisions and is driven by user needs.

Data aggregation means the process by which National Accounts data are prepared. It includes:

- · take-on of survey and administrative data
- conversion to National Accounts concepts
- presentation in the form required for National Accounts balancing and confrontation.

Separating out aggregation allows control of the data entering the balancing process and gives transparency and the possibility of accurately monitoring the impact of balancing. A suite of additional analytical checks and tools should be integrated with the National Accounts compilation methods.

Such a suite should include but not be limited to:

- comparisons with labour market statistics
- input-output analytical tables
- revisions analyses
- · analysis of quality and balancing adjustments
- analyses of imbalances in the accounts for institutional sectors.

Recommendations for changes to annual GDP

Annual GDP should be compiled at current prices and the prices of the previous year using an integrated supply and use framework.

Balancing through the supply and use framework should be mechanised as far as possible.

Any expansion of the dimensions of the supply and use tables should focus on service industries.

There should be consistent deflation across the National Accounts, integrated within the supply and use framework.

Recommendations for changes to quarterly GDP

A production-based measure of quarterly GDP should be produced at current and previous years' prices as the primary measure of output.

Quarterly GDP should be estimated within a supply and use framework with automatic balancing.

The supply and use framework integrates the estimates of GDP from the production, expenditure and income side using an industry/product structure and this enables balancing to take place at a detailed level and for reasonable industrial structures to be preserved. Balancing at current and previous years' prices also enables information on deflators to be used in the balancing and provides a tool for ensuring that the deflation of production and expenditure is consistent.

This would allow the latest data to be balanced more efficiently, balancing assumptions clearly stated and all adjustments easily recorded.

For balancing, there may be some justification for expanding the number of products to improve balancing if the basic data can justify the expansion and any expansion should focus on service industries.

The deflators used to estimate supply and demand should be consistent with each other and the most useful framework to ensure this consistency is the supply and use framework.

The production measure of GDP should be produced by use of surveys or administrative data where possible. Survey data on gross output should be available but where information on intermediate consumption is not available, it will have to be estimated using historical structures.

Production, income and expenditure estimates should be reconciled through supply and use tables although possibly at a higher level of aggregation than the annual supply and use tables.

Recommendations for changes to sector and financial accounts and balance of payments

Fundamental research should be carried out to improve balances in sector and financial accounts.

In the event that a full balance for sector and financial accounts cannot be achieved, a mechanical balance should be produced.

Any imbalance should be seen as identification of problems with data. In the past, the imbalances in current UK raw data have proved too large for successful automatic balancing.

The method for automatic balancing of sector and financial accounts should follow Meade and Stone (1944) but should not allow modifications to estimates of GDP components, which will be better estimated in the supply and use framework.

Recommendations for changes to monthly indicators

Monthly indicators should follow as closely as possible the concepts and classifications of the National Accounts but should not necessarily be bound by the same revisions policy as the rest of the National Accounts.

A monthly estimate of GDP based on a proxy production measure should be produced as close as possible to the end of the month and this should be retrospectively constrained to estimates of GDP produced quarterly. Although they can be expected to be broadly consistent with the later accounts, monthly indicators may not be an integral part of the accounts.

Such an indicator will inevitably be based on less data than later estimates.

Implications of the recommendations

The recommended methods for the UK National Accounts contain some significant differences from the current methods and will require the resolution of technical and practical issues before system specifications can be developed. A methods development team has been set up with the objective of co-ordinating, managing and testing the development of new methods. The main requirements from development work are:

- a method for producing unbalanced supply and use tables at current and previous years' prices which establishes the size of the tables to be balanced for annual GDP
- a method for simultaneous balancing of tables in current and previous years' prices
- a specification for computer-aided balancing to implement the balancing approach
- a method for estimating a quarterly production measure of GDP
- a supply and use framework for quarterly GDP estimation
- methods for populating cells in the unbalanced quarterly supply and use table, either data-based or using methods consistent with corporate standards
- a method for assessing weaknesses in the sector and financial accounts
- a method for producing a production proxy approach to producing monthly estimates of GDP
- specification of analytical checks and feedback mechanisms (including analysis of revisions, adjustments and other data comparisons).

The recommended methods for the UK National Accounts will also require changes in operational policy and to publications. The main requirements from development work include reviewing and recommending changes to:

- the existing publication schedule
- · the level of detail of data published
- · the form/format of publication
- the existing revisions policy.

Managing revisions arising from the review

Potential causes for revisions

The review of National Accounts methods and approaches will potentially have an impact on both National Accounts outputs and other products that depend on National Accounts outputs. The most significant areas of change are likely to derive from:

- balancing supply and use tables at current and previous years' prices (Box 1)
- reviewing deflators and price indices to be used in the new supply and use framework

- using supply and use tables to balance quarterly GDP estimates
- automatic balancing techniques (Box 2)
- reviewing methods in the UK National Accounts not covered by the above changes.

Scale and scope of potential revisions

It is not yet clear what the effect of changes on, for example, levels of GDP or growth rates will be. In addition, no decision has yet been taken on which time periods will be affected. Many factors will limit the application of new methods in the National Accounts. For example, the major annual source for the annual GDP estimates, the Annual Business Inquiry, only dates from 1998. The existing supply and use tables link to data for earlier periods by a set of link factors. Also:

- the existing supply and use framework dates back to 1992, although there are tables for 1989 to 1991
- the current approach of using alignment adjustments to bring the three measures of GDP in line only exists back to 1983
- data underlying the short-term output indicators are only available back to 1994
- a full set of sector accounts is available only from 1987 onward
- financial accounts and balance sheets are only fully available only from 1987

There are also a number of discontinuities in banking data in the late 1980s as a result of deregulation.

It is possible that new methods could be instituted only after a certain time period. It is important that this can be managed in a way that will not produce data discontinuities.

Principles for managing revisions

In order that revisions are managed through an efficient and transparent process, a clear set of principles will be needed as guidance and to ensure users understand the process. Some of these will be critical in dealing with changes that emerge from reviewing methods. All of the principles will be relevant in handling a long-term revisions policy.

The context for these principles will be:

- the National Statistics Protocol on revisions
- the needs of key users user preference will contribute to determining how conflicts should be resolved. For example, the timeliness of taking on revisions and the stability of time series
- the need to publish regular analyses of revisions and thorough briefing on revisions
- the need to balance the introduction of improvement with managing stability. This may mean cumulating changes so that several are made at once rather than making them individually.

Future communication plans

This article represents the start of communicating methods developments following the review. We aim to continue the process of informing users on developments by:

- publishing a series of *Economic Trends* articles throughout the re-engineering project and the development of methods
- regular updates to an existing list of National Accounts users (please contact the authors to ensure you are included)
- publishing updates on methods developments on the National Statistics website
- hosting seminars and consultations with National Accounts users as key issues emerge.

The authors welcome feedback on additional approaches that could be taken to communication.

Box 1

When compiling Supply and Use Tables (SUTs) in current and previous years' prices two approaches are possible:

Sequential approach

First, the SUT is compiled and balanced at either current or previous years' prices and then deflated or reflated. The second SUT in the sequence is then balanced.

Simultaneous approach

The current and previous year's tables are compiled and balanced at the same time. This is the recommended approach in the review of National Accounts methods.

There are several advantages in using the simultaneous approach.

Firstly, it allows the possibility of analysing value, price and volume indices in relation to each other. All three indicators must give a plausible picture hence improving the quality of the balancing process.

Secondly, it offers the opportunity at the earlier stage of compilation to check the data by comparing price and volume indices before they are entered in the SUTs. This will allow the double-checking of data consistency because even if the results in current prices look plausible, analysis of the volume and price data may still highlight issues.

Thirdly, in the relationship:

intermediate consumption + value added = output

the simultaneous approach allows an early check of the value added to output ratios to give a clear view on the reliability of the data on value added and/or on intermediate consumption by industry. At present, in calculating the annual and quarterly production measures of GDP, we make the assumption that the value added to output ratio is stable over time.

Box 2

Automatic balancing of Supply and Use tables (SUTs)

There are several automatic balancing techniques. Currently, the UK SUTs at current prices are mostly balanced manually but a 'rAs' iterative procedure is used near to the end of the balancing process to ensure total supply equals total use for each product. The term 'rAs' refers to an iterative mathematical process, where 'A' is the coefficient form of the intermediate section of the ' Combined Use' matrix. 'A' is pre-multiplied by a diagonal matrix, with the vector 'r' of replacement factors forming the diagonal, and post-multiplied by a diagonal matrix with the substitution vector 's' forming the diagonal. A single iteration applies the above process for each row and then for each column. After each iteration the replacement factors are changed appropriately and repeated until a desired balance has been achieved. The end result of this process is that supply equals demand for each product. The process is used in the UK as the very final step in the compilation of the annual supply and use tables after a near balance has been achieved.

In developing new automatic balancing procedures for the simultaneous balancing of SUT at current and previous years prices, the focus will be on the use of the least square balancing technique, also called the Stone method. More than sixty years ago, Stone, Champernowene and Meade (1942) made a first attempt at developing an application of the least squares methods that could be used to balance National Accounts. This method redistributes the discrepancy on the basis of information on the degree of relative reliability of the aggregates.

Since then, the method has been revised and improved by several researchers, among them Stone, but, although it has been tested with National Accounts data by researchers and statisticians, it has not found extensive application in National Statistical Institutes (NSIs). One of the main reasons behind the lack of application of the Stone method in NSIs has been the complexity of the accounting equations involved in this method which results in highly demanding computational requirements.

ISTAT, the Italian statistics institute, which has a long tradition of applying the Stone method in balancing input-output tables, has recently introduced in its automatic balancing process a new algorithm developed by Vittorio Nicolardi (2000). This algorithm uses the conjugate gradient method, which can handle accounting structures of tens of thousands of equations. The main feature of this balancing technique is the use of a variance matrix that allows the redistribution of accounting residuals on the basis of the relative reliability of the individual aggregates. ONS is investigating the feasibility of developing this approach to automatic balancing. One of the main objectives of future work will be to develop a mechanised procedure for balancing SUTs at current and previous years' prices, which will perform the least square balancing calculations using the conjugate gradient algorithm.

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Appendix Evaluating options for methods and approaches for National Accounts

Evaluation process

Criteria were identified in order to assess ways of evaluating competing methods and approaches to the compilation of:

- annual GDP
- quarterly GDP
- sector and financial accounts and balance of payments
- monthly indicators.

The evaluation criteria are listed below and the evaluation process is shown in detail for the possible methods and approaches for annual GDP. A similar process was carried out for evaluating possible methods and approaches for quarterly GDP, sector and financial accounts and monthly indicators.

Evaluation criteria

Relevance and completeness

Coherence

Accuracy

Timeliness and punctuality

Accessibility, clarity and transparency

Comparability

National Accounts methods must deliver statistics that are required by users. It is essential to produce data that are required by key customers (currently the Bank of England, HM Treasury and Eurostat) and desirable to meet all reasonable user requirements.

In the context of National Accounts, there are two types of coherence. Coherence can be either internal or external to the framework. Internal to the framework, accounting identities should hold and produce a single estimate of economic growth. Annual, quarterly and monthly data should give the same economic message and any differences between the economic story told by National Accounts and statistics outside the framework of National Accounts should be explicable.

National Accounts methods must deliver statistics with innate quality and reliability and ideally this would be measurable using statistical techniques. In reality, direct measures of the quality of data produced cannot yet be produced but reliability proxy measures such as revisions, bias and process measures are achievable.

It is essential for National Accounts methods to allow the production of key statistics in a timely way to be useful in key areas of economic decision making.

The National Accounts methods and approaches should be transparent to meet the key requirement for statistical integrity. It is essential to have methods that can be fully documented, so that they are replicable, with all data handling, quality adjustment or balancing decisions explained and recorded.

It is essential that the UK National Accounts methods comply with relevant international requirements and are consistent with international guidance allowing comparisons to be made across space and over time.

Data efficiency

There is a finite amount of resource available for the collection and management of National Accounts data. It is essential to make use of all the data collected specifically for National Accounts, to produce each estimate only once and not to 'stretch' data beyond the limits of their quality. Ideally, there should not be significant requirement for new input data.

Flexibility

It is essential to have methods that can be delivered by a processing system with structural and functional flexibility.

Evaluating the methods and approaches for annual GDP

Methods and approaches evaluated for annual GDP

Holistic approach

One- or two-measure approach

Three-measure approach

Current price supply and use

Current price and previous years' price supply and use

Regional breakdown

Supply and use tables could be compiled at previous years' prices. This approach could be extended to include a regional dimension and full social accounting matrices to allow information on labour inputs to be included.

GDP can be measured using production, income and expenditure measure estimates. Some countries use an approach based on one or two measures. The US uses an approach based on expenditure and income estimates.

In this approach, all three measures of GDP would be calculated. A single GDP estimate can be produced, for example, as the arithmetic average of the individual averages. Discrepancies between the total and the individual measures can either be allocated to components within the individual measures or shown as a statistical discrepancy.

Supply and use tables confront supply and demand estimates across products and confront estimates of inputs and outputs within industries. In a balanced table, supply for a product equals demand and the inputs into an industry equal its outputs. This provides a framework for reconciling information of production, income and expenditure and hence producing estimates of GDP. Some countries only produce tables at current prices.

Some countries, for example the Netherlands and Denmark, compile supply and use tables in both current and previous years' prices. This compilation can be carried out sequentially or simultaneously (Box 1).

In Canada, the national totals are derived from adding up provincial accounts. The provincial accounts are themselves built up using a supply and use table approach. It may also be possible to combine a regional with national process in different ways although no country uses such a hybrid approach.

A summary of the evaluation of options for annual GDP is shown in Table A. Annual GDP estimates should be the most reliable part of a National Accounts system. They are produced from extensive surveys and with time being less 'of the essence' than quarterly data. A holistic approach would be most desirable but this is likely to be extremely slow and expensive in terms of data. The benefits of such an approach are unlikely to outweigh the costs – particularly given the inherent unreliability in some aspects of the accounts for institutional sectors. It would, however, be sensible to incorporate some ideas from this approach and ensure that some analytical use is made of sector and financial accounts where they have the strength to inform GDP estimates. Other comparisons and analyses, including labour market comparisons, would also strengthen the reliability of estimates.

The supply and use approach meets or can meet all the criteria. It is also the optimal approach recommended in international guidance. In terms of essential criteria there is little to choose between a current price and a sequential or simultaneous current and previous years' price approach. They both have the benefit of balancing in a systematic framework. Intuitively, this approach should improve the estimation of key aggregates and Weale and Sefton (1995) show this to be the case in an empirical study of UK data. The simultaneous approach is, however, to be preferred because it allows the integration of data on prices for supply and demand (Box 1). The reconciliation of deflation between supply and demand should be superior to deflation based solely on demand categories.

There are however some serious difficulties with the supply and use approach. Experience in the UK and other countries suggests that there is a tendency for balancing to be a manual and opaque process. The solution for this is to have a clearly defined balancing process whose rules can be explicitly stated. Further, any process must allow a separation of compilation of tables and their balancing so that the impact of balancing can be clearly identified. There are also issues of timeliness. Simultaneous balancing could take a very long time and be technically difficult. Some countries, notably Denmark and Italy, have experience of mechanical balancing which could hugely reduce the time taken to balance. For example, provisional Danish tables are available six months after the end of the year. It would follow that such an approach could be developed for the UK with considerable benefits.

This implies that the optimal annual GDP estimation approach is to balance supply and use tables at current and previous years' prices. However, to ensure transparency and speed, a rule-based balancing approach is required together with the use of a mechanised approach.

Table A

Summary of the evaluation of options for annual GDP methods.

| Criteria considered of essential importance | Holistic app- roach | | 3- e measure happroach | • | Simult- aneous current price and previous years' price supply and use | Reg- ional break- down |
|--|---------------------------|---------------|------------------------------|---------------|--|---------------------------------|
| Relevance and completeness | Meets | Meets | Meets | Meets | Meets | Fails |
| Coherence | Meets | Fails | Could meet | Could meet | Meets | Fails |
| Accuracy | Meets | Could meet | Could meet | Could meet | Could meet | Fails |
| Timeliness and punctuality | Fails | Meets | Meets | Could meet | Could meet | Fails |
| Accessibility, clarity and transparency | Could meet | Fails | Meets | Could meet | Could meet | Could meet |
| Comparability | Meets | Fails | Partially meets | Meets | Meets | Fails |
| Data efficiency | Meets | Fails | Meets | Meets | Meets | Fails |
| Robustness | Could meet | Meets | Meets | Meets | Meets | Fails |

Unpaid household production in the United Kingdom, 1995–2000

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This article on the Household Satellite Account (HHSA) first considers unpaid household production at current prices and in volume terms. The availability of volume information has facilitated the production of a chain-linked volume index of unpaid household production. Secondly, we look at changes in the four largest accounts and compare them against equivalents in the paid economy. Finally, we consider the methodology used to compile the childcare and transport accounts.

Introduction

The Household Satellite Account (HHSA) measures and values unpaid household production in the UK. This provides a means by which the influence of changing patterns of unpaid work on the economy can be measured. The information will also be of use to policy makers who need to take significant amounts of unpaid work into account.

This work falls outside the scope of the UK National Accounts because the inclusion of all activity which is productive in the economic sense but which does not have a monetary value, would swamp the monetary flows, obscure what is happening in the markets, and reduce the usefulness of National Accounts data for analysis. HHSA is therefore separate from, but conceptually consistent with the UK National Accounts. National Accounts data can be tracked because it is recorded somewhere as a monetary transaction. Household production has to be measured in other ways. The two possibilities are to measure inputs or outputs.

Measuring inputs relies principally on time-use data. This usually takes the form of a diary, which the survey respondent is asked to complete, giving information about their principal activities throughout a 24-hour period. The length of the time slot may vary – 10 to 15 minutes is usual – and some diaries will record additional information about secondary activities. Some surveys may ask the respondent to remember what they did on one or two days in the previous week, while others may leave a diary to be completed over one or two days or a whole week.

The alternative is to attempt to measure outputs, for example the number of children cared for or the number of meals prepared. This is important because it is often easier to value outputs than inputs, particularly when there is a market equivalent to the service being produced. Output measurement is also more consistent with the way the rest of the National Accounts are constructed and reflects household productivity. It may be possible to construct a historical series using this approach, even in the absence of time-use data. Outputs can be estimated through surveys that specifically request this type of information.

An estimate of gross unpaid production is obtainable by multiplying the volume of output by an appropriate market value or price. This in itself is problematic due to the difficulties in applying a market price or wage rate to outputs without any information on the variation in quality between households. Goldschmidt-Clermont suggests that 'in order to ensure compatibility with National Accounts procedures, non-SNA output (her term for household production) should be valued at the market price of equivalent market products'. The problem then becomes to identify the nearest market equivalent. This implies that the output data must be sufficiently disaggregated to make sensible comparisons. For example, meals are not a homogeneous category. The cost of a breakfast in a transport cafe

will be very different from the cost of a five-course meal in a five-star hotel. In most cases, the key must be to differentiate sufficiently between the various types of output, in order to facilitate a meaningful comparison between market and household provision.

ONS has constructed a set of initial experimental estimates on the output basis using a combination of pre-existing administrative and survey data. Estimates of unpaid goods and services produced by households in the UK for 2000 were published in April 2002 as the *Household Satellite Account (Experimental)* on the National Statistics website: http://www.statistics.gov.uk/hhsa/hhsa/index.html.

Population estimates in this article are consistent with the data published on the HHSA website in April 2002 and are therefore not Census-2001 consistent. All National Accounts data are consistent with *UK National Accounts: the Blue Book* 2003

The HHSA is made up of eight components that comprise the output of household production:

- housing
- transport
- nutrition
- clothing
- laundry
- childcare
- adult care
- voluntary activity

plus a further three components which allow the calculation of gross and net value-added and the hourly effective return to labour:

- intermediate consumption
- capital consumption
- time use.

For each of these accounts there are one or more sources for the volume estimate and a single source for the price estimate.

Estimates of unpaid household production, 1995–2000

Table 1 shows that unpaid household production in the UK, valued at current prices, increased by 40 per cent from £629 billion in 1995 to £877 billion in 2000. This increase stems from a combination of both price and volume changes. The highest increase is in childcare which rose over 80 per cent from £122 billion in 1995 to £221 billion in 2000, largely due to an increase in the market rate – the cost of childcare provided by nannies – used to calculate the value. Housing, transport and nutrition also showed considerable rises in the value of household production. The childcare and transport account are discussed in more detail later in this article. The clothing account showed no change in value between 1995 and 2000, remaining at £1.4 billion. The only account to show a fall in value was the voluntary activity account that fell £4.5 billion or just over 25 per cent. The main driver behind the fall was a 33 per cent reduction in the number of hours spent doing voluntary activities.

Estimates for 1995 are generally based on the same methodology used to compile the estimates for 2000. Data for the intervening years were available for childcare, adult care, owner-occupied housing and transport. Straight-line interpolation was used for the 1996 to 1999 estimates of gross output for tenant services, laundry and voluntary activity. These three accounts are relatively small, collectively contributing just 16 per cent of the overall total for 2000. No alternative data sources were available. For nutrition, prices information was available for 1996 to 1999 from the Eating Out section of the National Food Survey (NFS) but the volume data were also interpolated. Information on meal composition in 2000 was based on market research data by Taylor Nelson. It has been assumed that eating patterns had not changed that significantly between 1995 and 2000 so a straight-line interpolation was once again used.

Table 1 **Gross unpaid household production, 1995–2000 (current price)**

United Kingdom £ billion

| | | | | | | | Change 1995–2000 |
|-------------------------|-------|-------|-------|-------|-------|-------|---------------------|
| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | (per cent) |
| Housing –Owner-occupied | 157.6 | 160.8 | 172.8 | 185.2 | 194.2 | 211.8 | 34.4 |
| Housing —Tenant | 37.0 | 37.6 | 40.7 | 43.9 | 46.3 | 50.9 | 37.4 |
| Transport | 112.6 | 122.0 | 128.5 | 136.8 | 145.4 | 156.1 | 38.6 |
| Nutrition | 126.1 | 136.0 | 150.0 | 158.7 | 164.1 | 163.6 | 29.9 |
| Clothing | 1.4 | 1.3 | 1.3 | 1.1 | 1.4 | 1.4 | 0.0 |
| Laundry | 44.0 | 45.6 | 45.1 | 44.7 | 44.3 | 46.0 | 4.5 |
| Childcare | 121.9 | 173.8 | 179.1 | 182.5 | 225.3 | 220.5 | 80.8 |
| Adult care | 10.6 | 11.6 | 11.4 | 12.5 | 14.0 | 13.9 | 31.0 |
| Voluntary activity | 17.7 | 17.7 | 17.3 | 16.7 | 16.0 | 13.2 | -25.6 |
| Total unpaid production | 629.1 | 705.9 | 745.6 | 781.3 | 850.3 | 877.3 | 39.5 |

Source: HHSA estimates

Totals may differ due to rounding

Unpaid household production volumes

Table 2 shows the variety of volume information available for the accounts.

The following are definitions of the components in HHSA, along with more detailed explanations of the measures used to value the components.

Housing

The amount of accommodation provided, including utilities, furniture, insurance and maintenance. It also includes the services provided by tenants relating to furnishings and maintenance.

Owner-occupier housing services

The number of rooms provided by owner-occupiers is based on some of the inputs to the UK National Accounts' calculation of imputed rent – dwellings data from Office of the Deputy Prime Minister's *Survey of English Housing* and average number of rooms data from the then *Family Expenditure Survey*, which became the *Expenditure and Food Survey* in April 2001.

Tenant housing services

The number of hours spent by tenants on housing services is taken from the ONS *Time Use Survey* for 1995 and 2000. The intervening years have been estimated using straight-line interpolation.

Transport

The volume of unpaid transport services provided by households is measured in miles travelled by parties of individuals as recorded in the *National Travel Survey* (NTS) carried out annually by the Department for Transport.

Nutrition

The number of meals estimate is based on *Taylor Nelson Sofres' Family Food Panel* market research data for 1995

and 2000. The intervening years have been estimated using straight-line interpolation.

Clothing

ONS has not located a source of information on numbers of garments produced at home and so there is only a value estimate for the output of clothing.

Laundry

The volume of laundry is based on information from the *UK Laundry Market Report* (Lever-Faberge, 1999/00), which reports the average number of wash-loads per household per week. An assumption was made that on average 10 per cent of the washing is ironed.

Childcare

The volume of childcare is measured in hours of childcare required. This is calculated by subtracting hours spent in formal childcare from the total number of hours for which care is needed. Child numbers are based on the ONS midyear population estimates and a mixture of administrative and survey data. Information on formal childcare places in England is sourced from the Department for Education and Skills and the Department of Health. Information on formal childcare places in Scotland, Wales and Northern Ireland comes from the Scottish Executive, National Assembly of Wales and the Department for Education NI/Department of Health Social Services and Public Spending NI respectively.

Adult care

The volume of adult care output is measured in numbers of adults receiving continuous care, and hours of noncontinuous care received, differentiated by the type of help. The source of information for this estimate is the *Family Resources Survey* (FRS), which asks whether any household members receive care, how frequently they receive it and what type of help is given.

Table 2 **Volumes of unpaid household production, 1995–2000**

United Kingdom Millions of units

| | | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|-------------------------|--------------------------|---------|---------|-----------------|---------|---------|---------|
| Housing –Owner-occupied | No. of rooms (Thousands) | 75,604 | 74,287 | 75.244 | 79.417 | 79.978 | 80,678 |
| Housing –Tenant | Hours labour | 3,900 | 3,940 | 73,244 3,981 | 4.021 | 4.061 | 4,101 |
| 3 | | | | • | | , | • |
| Transport | Km | 141,751 | 144,479 | 148,085 | 148,781 | 149,825 | 152,427 |
| Nutrition | No. of meals | 127,252 | 127,015 | 126,778 | 126,541 | 126,305 | 126,054 |
| Clothing | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Laundry | No. of loads | 9,801 | 9,793 | 9,785 | 9,777 | 9,770 | 9,762 |
| Childcare | Informal Hours | 88,361 | 88,231 | 88,250 | 88,143 | 88,027 | 87,495 |
| Adult care | Hours | 5,902 | 6,032 | 5,675 | 5,984 | 6,673 | 6,467 |
| Voluntary activity | Hours | 2,337 | 2,181 | 2,025 | 1,870 | 1,714 | 1,558 |

Source: HHSA estimates

Table 3 Indices of volume of unpaid household production, 1995–2000

United Kingdom 2000=100

| Index numbers | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | Weights 2000 |
|-------------------------|-------|-------|-------|-------|-------|-------|--------------|
| Housing –Owner-occupied | 93.7 | 92.1 | 93.3 | 98.4 | 99.1 | 100.0 | 241 |
| Housing –Tenant | 95.1 | 96.1 | 97.1 | 98.0 | 99.0 | 100.0 | 58 |
| Transport | 93.0 | 94.8 | 97.2 | 97.6 | 98.3 | 100.0 | 178 |
| Nutrition | 101.0 | 100.8 | 100.6 | 100.4 | 100.2 | 100.0 | 186 |
| Clothing | 100.1 | 88.3 | 93.1 | 75.2 | 96.2 | 100.0 | 2 |
| Laundry | 100.4 | 100.3 | 100.2 | 100.2 | 100.1 | 100.0 | 53 |
| Childcare | 101.0 | 100.8 | 100.9 | 100.7 | 100.6 | 100.0 | 251 |
| Adult care | 91.3 | 93.3 | 87.7 | 92.5 | 101.6 | 100.0 | 16 |
| Voluntary activity | 150.0 | 140.0 | 130.0 | 120.0 | 110.0 | 100.0 | 15 |
| Total | 98.1 | 97.9 | 98.3 | 99.5 | 99.8 | 100.0 | 1,000 |

Source: HHSA estimates

Totals may differ due to rounding

Voluntary activity

Voluntary activity is measured in hours spent volunteering. The estimate is based on a module of questions placed on the *National Statistics Omnibus Survey* in January and March 2001. This survey gives the number of volunteers formally working for or on behalf of an organisation and the hours volunteered in the previous four weeks, as well as the type of voluntary activity undertaken.

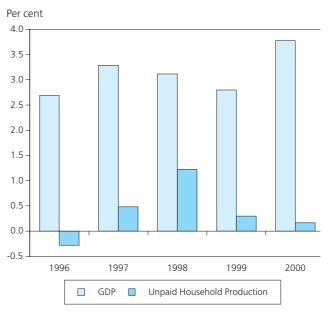
Table 3 shows that the volume of adult care has risen by 10 per cent from 1995 to 2000. Housing and transport show an increase in volume terms of seven per cent and eight per cent respectively over the same period. There is no change in volume terms between 1995 and 2000 for the laundry and clothing accounts. The voluntary activity account shows a 33 per cent fall in the number of hours spent doing voluntary activities. The nutrition account shows that the volume of meals prepared in the home dropped by one per cent from 1995 to 2000. The volume of childcare activity provided by households decreased between 1995 and 2000 by one per cent.

Figure 1 shows the growth rates in the volume of unpaid household production compared against the growth in the chain-linked measure of Gross Domestic Product. The figure shows that the chained measure of GDP has grown faster in every year. The Index of Unpaid Household Production is dominated by four accounts; owner-occupier household services, transport, nutrition and childcare account for 86 per cent of the volume. The decrease in volume of unpaid production in 1996 is driven by the decline in the number of owner-occupied rooms. The increased volume in the subsequent years reflects an increase in the number of owner-occupied rooms, and an increase in the transportation mileage. There is a downward effect caused by fewer meals being produced at home and falls in childcare because of the increase in availability of formal childcare. The methodologies used to compile the transport and the childcare accounts are explained in greater detail in the subsequent pages.

Figure 1

Comparison of unpaid household production with
GDP growth

United Kingdom



Source: HHSA estimates/UK National Accounts

Comparison of paid and unpaid household production, 1995–2000

The four largest accounts in the Household Satellite Accounts are housing, transport, nutrition and childcare. In this section, the unpaid production is compared to that produced in the market economy, indicating the extent of movement to and from the market economy.

Housing

The largest housing item recorded in the UK National Accounts is the imputed rent of owner-occupied dwellings. Other significant items are expenditure by households on the maintenance and repair of dwellings, which has increased by 40 per cent over the period, and expenditure on domestic and

household services, including cleaners and gardeners, which has increased by 30 per cent. This is very much in line with the estimated increases in owner-occupied and tenant production of housing services. Table 4 gives the detailed figures.

Transport

Table 5 below shows that the volume of household production of transport services as measured by distance travelled is dominated by motorised (car, van and motorcycle) trips, which have increased by roughly 1.4 per cent a year between

Table 4 **UK National Accounts expenditure on housing services (current price)**

United Kingdom

| | 1995 | 2000 | Change (per cent) |
|---|--------|--------|-------------------|
| Numbers of households (thousands) | | | |
| -private furnished | 14,203 | 20,923 | 47.3 |
| -private unfurnished | 20,531 | 19,160 | -6.7 |
| Household final consumption expenditure –actual rents paid by tenants | | | |
| Actual rents paid by tenants (£m) | 17,906 | 23,595 | 31.8 |
| Volume change | | | 2.0 |
| Price change | | | 29.2 |
| Maintenance and repair of dwellings (£m) | 2,465 | 3,442 | 39.6 |
| Volume change | | | -0.2 |
| Price change | | | 39.9 |
| Domestic and household services (£m) | 1,967 | 2,557 | 30.0 |
| Volume change | | | 1.1 |
| Price change | | | 28.6 |

Source: HHSA estimates/UK National Accounts

Volume of household production of transport services

United Kingdom

Driver/cyclist/pedestrian billion miles

| Household production | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|-------|-------|-------|-------|-------|-------|
| Motorised –London | 20.4 | 20.6 | 21.6 | 23 | 23.5 | 24.1 |
| Motorised –rest of UK | 258.5 | 263.2 | 269.1 | 269.7 | 271.4 | 276.2 |
| Total motorised | 279 | 283.8 | 290.8 | 292.8 | 294.9 | 300.3 |
| Volume change on 1995 (per cent) | | 1.7 | 4.2 | 4.9 | 5.7 | 7.6 |
| Non-motorised –London | 1.7 | 1.7 | 1.6 | 1.7 | 1.6 | 1.7 |
| Non-motorised –rest of UK | 10 | 9.8 | 9.8 | 9.6 | 9.3 | 9.2 |
| Total non-motorised | 11.6 | 11.5 | 11.4 | 11.3 | 10.9 | 10.8 |
| Volume change on 1995 (per cent) | | -1.2 | -1.9 | -2.8 | -5.9 | -6.7 |
| Total mileage | 290.6 | 295.3 | 302.2 | 304.1 | 305.9 | 311.1 |
| Volume change on 1995 (per cent) | | 1.6 | 4.0 | 4.6 | 5.3 | 7.1 |
| Paid economy estimates | | | | | | |
| Distance travelled by minicab/taxi (NTS respondents –miles) | 1,497 | 1,908 | 1,396 | 1,561 | 1,957 | 2,185 |
| Change on 1995 (per cent) | | 27.5 | -6.8 | 4.2 | 30.7 | 46.0 |
| UK National Accounts household final consumption | | | | | | |
| Expenditure on taxis and minicabs | | | | | | |
| Volume change on 1995 (per cent) | | 14.3 | 27.1 | 35.2 | 32.6 | 36.4 |
| Stage bus passenger miles –not available | | | | | | |
| UK National Accounts household final consumption | | | | | | |
| Expenditure on bus fares | | | | | | |
| Volume change on 1995 (per cent) | | 1.7 | 0.6 | 0.5 | 2.1 | 4.3 |

Totals may differ due to rounding

1995 to 2000. Travel by non-motorised modes (foot and bicycle) is estimated to have decreased by seven per cent over the period. In contrast, the NTS data suggests that taxi and minicab travel has increased by 46 per cent over the period. The UK National Accounts household final consumption figures suggest a volume increase of 36 per cent.

Nutrition

In volume terms (Table 6), there is some evidence of a decline in household production of meals and a corresponding increase in the paid economy. Although the number of main meals has gone up by two per cent, the overall total of meal servings has gone down by one per cent. Data from the consumer information company Mintel on the frequency of eating out suggests that the number of meals eaten out has gone up by 29 per cent between 1995 and 2000. The UK National Accounts household final consumption figures suggest a volume increase of 16 per cent.

Childcare

Table 7 shows that the volume of unpaid childcare activity provided by households decreased slightly between 1995 and 2000, by 870 million hours or one per cent. A decrease in the child population accounted for 270 million hours, and an

Table 6
Number of meals servings prepared in UK households

United Kingdom Million meals

| | 1995 | 2000 | Change (per cent) |
|---|---------|---------|-------------------|
| Household production | | | |
| Meals (including potatoes and/or rice and/or pasta and/or vegetables) | 15,239 | 15,570 | 2.2 |
| Sandwiches | 10,410 | 10,367 | -0.4 |
| Salads | 327 | 341 | 4.2 |
| Other Ingredients | 13,566 | 13,737 | 1.3 |
| Starters | 12,335 | 12,415 | 0.6 |
| Desserts | 19,593 | 20,374 | 4.0 |
| Drinks | 55,782 | 53,252 | -4.5 |
| Total | 127,252 | 126,054 | -0.9 |
| Paid economy estimates | | | |
| UK National Accounts household final consumption expenditure | | | |
| Volume change in expenditure in canteens | | | 15.7 |
| Volume change in expenditure in cafes and restaurants | | | 15.7 |
| Overall volume change in expenditure on eating out | | | 15.7 |

Source: HHSA estimates/TNS Family Food Panel/UK National Accounts

Table 7

Number of hours of formal (paid) and informal (unpaid) care provided to children

United Kingdom Million hours

| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
|---|---------|---------|---------|---------|---------|---------|
| Total hours of children under 16 | 106,047 | 105,981 | 106,041 | 106,110 | 106,106 | 105,789 |
| Formal or paid care | 12,586 | 12,685 | 12,745 | 12,870 | 12,916 | 13,018 |
| Change in formal care from 1995 (per cent) | | 0.8 | 1.3 | 2.3 | 2.6 | 3.4 |
| of which, care in nursery schools/classes | 249 | 255 | 259 | 278 | 280 | 288 |
| Care in day nurseries | 225 | 250 | 283 | 318 | 349 | 370 |
| Care by childminders | 497 | 503 | 493 | 500 | 462 | 447 |
| Change in childminder care from 1995 (per cent) | | 1.2 | -0.7 | 0.5 | -6.9 | -10.1 |
| Household final consumption expenditure on child care | | | | | | |
| Volume change on 1995 (per cent) | | 1.8 | 0.7 | 1.7 | -1.2 | -4.0 |
| Estimated unsupervised time | 5,100 | 5,064 | 5,047 | 5,097 | 5,164 | 5,276 |
| Informal or unpaid care | 88,361 | 88,231 | 88,250 | 88,143 | 88,027 | 87,495 |
| Change in informal care from 1995 (per cent) | | -0.1 | -0.1 | -0.2 | -0.4 | -1.0 |
| of which, active (non-sleeping) care | 43,839 | 43,784 | 43,792 | 43,751 | 43,665 | 43,422 |
| Passive (sleeping) care | 44,522 | 44,447 | 44,458 | 44,392 | 44,362 | 44,073 |

Source: HHSA estimates/UK National Accounts

increasing proportion of older children, with more assumed unsupervised time, accounted for a further 180 million hours. The remaining difference is largely accounted for by an increase in the use of nurseries. Care by childminders decreased by 10 per cent, and this is reflected in the UK National Accounts, which show a volume decrease of four per cent in expenditure on childcare over the same period.

Methodology

Methodology used to compile the childcare account

The main driver of the increase in unpaid household production has been the childcare account. The HHSA definition of unpaid care of children is called informal childcare. This is the total amount of childcare required (total number of children in the population multiplied by 24 hours a day) less any formal childcare either at school or paid childminder and less the assumed number of unsupervised hours. Full details of the data sources and assumptions can be found in the HHSA Methodology article on the National Statistics website http://www.statistics.gov.uk/hhsa/hhsa/downloads.html

Table 8 shows that total formal childcare hours increased by 3.4 per cent between 1995 and 2000. This is predominately driven by the increase in formal childcare hours for children aged under 10.

The total informal childcare hours has changed very little between 1995 and 1999. However, total informal hours decreased by 1.0 per cent over the period 1995 to 2000. Informal hours have decreased 7.4 per cent for the under-fives due to a decline in this population. At the same time informal hours for 11–15 year olds have increased, due to a decrease in formal childcare hours (fewer children in children's homes and boarding schools), combined with an increase in the population.

To obtain a value for childcare output, the number of hours of childcare required (informal hours) is multiplied by the wage rate of a live-in nanny. The source of this information is the *Professional Nanny/Nannytax Annual Survey*. The wage rates have been adjusted to take into account payment in kind (for accommodation and food) and to obtain a rate per child.

Table 8 Informal childcare, 1995–2000

United Kingdom

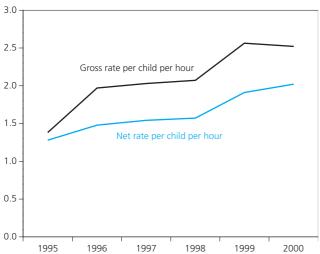
| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | % change 1995–2000 |
|---|------------------------|---------------------|-------------|---------|---------|---------|-----------------------|
| Estimated UK formal childcare hours (m | illions) | | | | | | |
| Aged under 5 | 2,043 | 2,072 | 2,083 | 2,123 | 2,078 | 2,109 | 3.2 |
| Aged 5 to 10 | 5,671 | 5,762 | 5,826 | 5,903 | 5,948 | 5,936 | 4.7 |
| Aged 11 to 15 | 4,872 | 4,851 | 4,836 | 4,844 | 4,890 | 4,973 | 2.1 |
| Total | 12,586 | 12,685 | 12,745 | 12,870 | 12,916 | 13,018 | 3.4 |
| Estimated UK informal childcare hours (| (millions) | | | | | | |
| Aged under 5 | 31,557 | 30,896 | 30,448 | 30,046 | 29,673 | 29,210 | -7.4 |
| Aged 5 to 10 | 34,723 | 35,083 | 35,342 | 35,303 | 35,099 | 34,766 | 0.1 |
| Aged 11 to 15 | 22,082 | 22,252 | 22,460 | 22,794 | 23,254 | 23,519 | 6.5 |
| Total | 88,361 | 88,231 | 88,250 | 88,143 | 88,027 | 87,495 | -1.0 |
| Average weekly net wages –live-in nan | ny (£) | | | | | | |
| Net hourly rate per child | 1.28 | 1.48 | 1.54 | 1.57 | 1.91 | 2.02 | 57.8 |
| Gross hourly rate per child | 1.38 | 1.97 | 2.03 | 2.07 | 2.56 | 2.52 | 82.6 |
| Estimated value of UK informal childcar | e (based on gross hou | ırly rate per child |) £ million | | | | |
| Aged under 5 | 43,548 | 60,865 | 61,809 | 62,195 | 75,963 | 73,609 | 69.0 |
| Aged 5 to 10 | 47,917 | 69,114 | 71,744 | 73,078 | 89,854 | 87,610 | 82.8 |
| Aged 11 to 15 | 30,473 | 43,836 | 45,594 | 47,184 | 59,531 | 59,269 | 94.5 |
| Total | 121,939 | 173,816 | 179,147 | 182,457 | 225,348 | 220,488 | 80.8 |
| Estimated value of UK informal childcar | e (based on net hourly | y rate per child) f | million | | | | |
| Aged under 5 | 40,393 | 45,726 | 46,890 | 47,172 | 56,675 | 59,004 | 46.1 |
| Aged 5 to 10 | 44,445 | 51,923 | 54,426 | 55,426 | 67,040 | 70,227 | 58.0 |
| Aged 11 to 15 | 28,265 | 32,933 | 34,589 | 35,787 | 44,416 | 47,509 | 68.1 |
| Total | 113,102 | 130,582 | 135,905 | 138,385 | 168,131 | 176,740 | 56.3 |

Source: HHSA estimates (hours), PN/Nannytax Annual Survey of Nannies' Wages 1999, Nanny Tax Payroll services

Figure 2 Hourly nanny rate, 1995–2000

£ per hour

1.1-14-4 1/21-4-4



Source: PN/Nannytax Annual Survey of Nannies' Wages 1999, Nanny Tax Payroll services

Figure 2 shows that there have been sharp increases in hourly rates between 1995 and 1996 and between 1998 and 1999. The latter increase is influenced by the introduction of the National Minimum Wage in April 1999 and due to a shortage of nannies.

The value of informal childcare using both the gross and net rate per child hour is shown in Table 8. The value of informal childcare increased between 1995 and 2000, both in total and for each age group. Any fluctuation in informal hours has been outweighed by the increase in the underlying nanny wage rate. The wages of a live-in nanny are adjusted for hours worked, number of children looked after and payment in kind.

Methodology used to compile the transport account

The transport account is another significant driver in the increase in unpaid household production. This includes all modes of transport provided by the household such as car, van, motorcycle, bicycle and walking and for all purposes where the cost is not already included in the UK National Accounts. Where the travel is an end in itself, for example, walking for exercise or pleasure, it is not included. Full details of the data sources and assumptions can be found in the HHSA Methodology article on the website.

In order to value the output of transport provided by the household, the nearest market equivalent has been identified. As the objective is to value a journey from one particular point to another, in other words 'door to door', a private hire vehicle (PHV) is the closest equivalent. A PHV is a taxi booked in advance that collects you from wherever you specify. We assume that if people travel together they would also share a PHV. The total distance travelled by all people in the UK therefore needs to be adjusted by the average number of people travelling together.

Table 9 shows the total mileage travelled by all people in the UK split between motorised and non-motorised modes. Motorised modes make up approximately 96 per cent of distance travelled. Non-motorised modes are usually used for short journeys, and account for approximately 30 per cent of total trips.

In total, motorised travel has increased steadily from 1995 to 2000, while non-motorised travel has remained fairly constant at about seven billion miles per year. Shopping and education travel form a much larger proportion of the total for non-motorised than for motorised modes.

Table 9

Total distance travelled by all individuals in the UK (3 year rolling average)

| United Kingdom | | | | | IV. | fillion miles |
|---|---------|---------|---------|---------|---------|---------------|
| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 |
| Total distance travelled by all individuals in the UK | | | | | | |
| Motorised | 278,953 | 283,770 | 290,770 | 292,760 | 294,904 | 300,292 |
| Non-motorised | 11,628 | 11,483 | 11,403 | 11,301 | 10,947 | 10,845 |
| Total | 290,581 | 295,253 | 302,173 | 304,061 | 305,851 | 311,137 |
| Total distance travelled by parties in the UK | | | | | | |
| Motorised | 134,653 | 137,425 | 141,064 | 141,814 | 143,090 | 145,713 |
| Non-motorised | 7,098 | 7,054 | 7,021 | 6,967 | 6,735 | 6,714 |
| Total | 141,751 | 144,479 | 148,085 | 148,781 | 149,825 | 152,427 |
| Private hire vehicle prices -£ per mile | | | | | | |
| London | 1.22 | 1.27 | 1.32 | 1.37 | 1.43 | 1.52 |
| Rest of the UK | 0.76 | 0.81 | 0.83 | 0.88 | 0.93 | 0.98 |

Travel by non-motorised modes of transport accounted for just over four per cent of the total distance travelled in 2000. Between 1995 and 2000 the total distance travelled by parties in cars and so on rose, while for journeys on foot and by bike, it fell. The largest changes were in the total distance travelled for shopping trips by both motorised and non-motorised modes of transport. Between 1995 and 2000 the distance travelled fell for trips on foot or by bike and rose for trips by car.

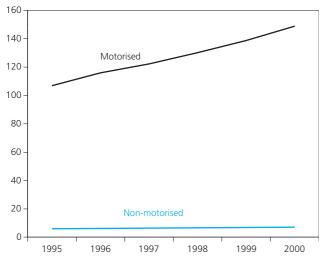
To obtain the value of transport output, the miles travelled by parties of individuals are multiplied by the average cost per mile of a PHV. The average cost per mile is obtained from the National Travel Survey. An average of three years' data was used, centred on 1997, and a time-series created using the RPI. The value was calculated separately for London and the rest of the UK.

The price of hiring a PHV in London has increased by 25 per cent between 1995 and 2000, while prices in the rest of the UK increased by 29 per cent over the same period.

Figure 3
Unpaid household transport services, current price

United Kingdom

£ billion



Source: HHSA estimates/DTLR

Figure 3 shows that the value of household transport has increased steadily over time. The value of household travel has increased by 39 per cent from 1995 to 2000. This growth is largely a reflection of the increase in the price of travel but also due to increases in the amount of travel per person.

Future Development

The HHSA will be updated annually with a view to another major publication in about three to four years time when the 2005 *Time Use Survey* becomes available.

The Childcare account is the main driver of increases in value of unpaid household production. Several areas in this account could be reviewed. These include examining the pricing of passive care and the care rate for older children.

Other development work includes considering some of the recently published Census information for the Transport account, a look at the alternatives for deriving the estimates for nutrition and housing and investigating the use of the 2001 *Home Office Citizenship Survey* data.

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Taylor Nelson Sofres' Family Food Panel

http://www.tnsofres.com/uk/industryexpertise/consumer/family_food_panel.cfm?country=uk

ONS Family Resources Survey

http://www.statistics.gov.uk/statbase/source.asp?vlnk=227&More=Y#general

ONS Labour Force Survey

http://www.statistics.gov.uk/statbase/source.asp?vlnk=358

ONS National Food Survey

http://www.statistics.gov.uk/statbase/Product.asp?vlnk=632

Department for Transport's National Travel Survey

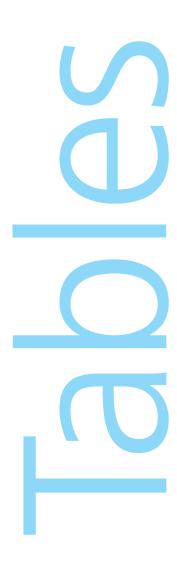
http://www.statistics.gov.uk/statbase/Product.asp?vlnk=3756

Mintel

http://reports.mintel.com/sinatra/mintel/about/

National Minimum Wage

http://www.lowpayunit.org.uk/minwage/index.shtml



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Notes to tables

Identification codes

The four-letter identification code at the top of each data column is the ONS reference for this series of data on our database. Please quote the relevant code if you contact us requiring any further information about the data.

Currency of data

All data in the tables and accompanying charts are current, as far as possible, to 9 January 2004.

Some data, particularly for the latest time period, are provisional and may be subject to revision in later editions.

Geographic coverage

Statistics relate mainly to the United Kingdom. Where figures are for Great Britain only, this is shown on the table.

Seasonal adjustments

Almost all quarterly data are seaonally adjusted; those not seasonally adjusted are indicated by the abbreviation NSA.

Money

There is no single correct definition of money. The most widely used measures are:

MO

This is the narrowest measure and consists of notes and coins in circulation outside the Bank of England and bankers' operational deposits at the Bank.

МЛЛ

This comprises notes and coin in circulation with the public, together with all sterling deposits (including certificates of deposit) held with UK banks and building societies by the rest of the private sector.

The Bank of England also publish data for liquid assets outside M4.

Conventions

Rounding may lead to inconsistencies between the constituent parts and the total in some tables. A horizontal line between two consecutive figures indicates that the figures above and below the line have been compiled on different bases and are not strictly comparable. Footnotes explain the differences.

Billion denotes one thousand million.

Symbols used

- .. not available
- nil or less than half the final digit shown
- + a series for which measures of variability are given on page 147
- t data have been revised since the last edition; the period marked is the earliest in the table to have been revised

average (or total) of five weeks

National Statistics Online

www.statistics.gov.uk

Users can download time series, cross-sectional data and metadata from across the Government Statistical Service (GSS), using the site search and index functions from the homepage. Many datasets can be downloaded, in whole or in part, and directory information for all GSS statistical resources can be consulted, including censuses, surveys, journals and enquiry services. Information is posted as PDF electronic documents, or in XLS and CSV formats, compatible with most spreadsheet packages.

Time Series Data

The time series data facility on the website provide access to around 40,000 time series, of primarily macroeconomic data, drawn from the main tables in our major economic and labour market publications. Users can download complete releases or view and download customised selections of individual time series.

Complete copies of *Economic Trends* can be downloaded from the following webpage:

www.statistics.gov.uk/statbase/product.asp?vlnk=308

seasonally adjusted unless otherwise stated

Selected monthly indicators

| Company Comp | | | | | | | | 31 | asonan | , aujuste | u uiiiess | ouieiwise state |
|--|--|--------------------------------------|--|--|--|--|--|----------------------------------|----------------------------------|----------------------------------|--------------------------|--|
| Company Comp | | | 2001 | 2002 | | | | | | | | % Change Latest 3 months avg over previous 3 months |
| Industrial production | | | | | | | <u> </u> | | СОР | | | |
| Raps 106.1 112.7 115.4 114.6 116.4 117.7 118.4 119.1 119.2 1.0 | Industrial production Oil and gas extraction Manufacturing Construction Car production (thousands) | CKYW CKZO CKYY GDQB FFAO | 98.4 94.4 98.7 103.4 124.4 | 95.7 93.4 95.1 111.2 135.7 | 95.2 92.9 94.5 114.0 127.9 | 95.0 92.3 94.6 112.4 130.2 | 95.3 89.1 95.2 117.1 137.9 | 95.1 86.9 95.4 119.5 | 95.0 84.9 95.2 | 86.4 96.2 | | 0.7 -0.3 -3.9 0.1 2.0 -2.8 -3.3 |
| Second Case Cologo | Domestic demand | | | | | | | | | | | |
| Consumer prices index Cayer 1.2 1.3 1.6 1.5 1.3 1.4 1.4 1.4 1.3 1.6 1.5 1.3 1.6 1.5 1.3 1.4 1.4 1.3 1.5 1.3 1.6 1.5 1.3 1.4 1.4 1.3 1.5 1.5 1. | GB new registrations of cars ('000s) ¹ | BCGT | 2 577.5 | 2 682.0 | 528.7 | 737.6 | 642.7 | 742.8 | | | | 1.4 50.2 |
| Retail prioses index (less MIPS)2 CDKQ 2.1 2.2 2.6 2.9 2.8 2.6 2.5 Producer output prices (less EBTP)3 EUAA -0.6 -0.1 0.4 1.2 1.2 1.2 1.2 1.4 1.2 1.3 Producer input prices (less EBTP)3 EUAA -0.6 -0.1 0.4 1.2 1.2 1.2 1.2 1.4 1.2 1.3 BUAA -0.6 -0.1 0.4 1.2 1.2 1.2 1.2 1.4 1.2 1.3 BUAB -0.6 -0.1 0.4 1.2 1.2 1.2 1.2 1.4 1.2 1.3 BUAS -0.6 EUAB -0.6 -0.1 0.4 1.2 1.2 1.2 1.2 1.4 1.2 1.3 BUAS -0.6 EUAB -0.6 -0.1 0.4 1.2 1.2 1.2 1.4 1.2 1.3 BUAS -0.6 EUAB -0.2 1.6 0.5 1.3 0.6 0.6 0.6 0.6 0.6 0.6 0.6 BUAS -0.6 EUAB -0.2 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 0.6 BUAS -0.6 EUAB -0.6 EUAB -0.6 EUAB -0.6 EUAB -0.6 BUAS -0.6 EUAB -0.6 EUAB -0.6 EUAB -0.6 EUAB -0.6 BUAS -0.6 EUAB -0.6 EUAB -0.6 EUAB -0.6 EUAB -0.6 BUAS -0.6 EUAB -0.6 EUAB -0.6 EUAB -0.6 EUAB -0.6 BUAS -0.6 EUAB -0.6 EUAB -0.6 EUAB -0.6 EUAB -0.6 BUAS -0.6 EUAB -0.6 EUAB -0.6 EUAB -0.6 EUAB -0.6 BUAS -0.6 EUAB -0.6 EUAB -0.6 EUAB -0.6 EUAB -0.6 BUAS -0.6 EUAB -0.6 EUAB -0.6 EUAB -0.6 EUAB -0.6 BUAS -0.6 EUAB -0.6 EUAB -0.6 EUAB -0.6 EUAB -0.6 EUAB -0.6 BUAS -0.6 EUAB -0.6 EUAB -0.6 EUAB -0.6 EUAB -0.6 EUAB -0.6 BUAS -0.6 EUAB EUAB -0.6 EUA | | | | | | | | | | | | |
| UK balance on trade in goods (£ million) | Retail prices index ¹ Retail prices index ¹ (less MIPS) ² Producer output prices (less FBTP) ³ Producer input prices ⁴ | CZBH CDKQ EUAA EUAB | 1.8 2.1 -0.6 -1.2 | 1.7 2.2 –0.1 –4.5 | 2.5 2.6 0.4 –0.2 | 3.0 2.9 1.2 1.6 | 3.0 2.9 1.2 –0.5 | 2.9 2.8 1.2 1.3 | 2.8 2.8 1.4 0.8 | 2.6 2.7 1.2 1.9 | 2.5 2.5 1.3 4.0 | |
| Non EU elalance on trade in goods (cf. million) Non EU exprots of goods (excl oil & erratics) SEMTS 100.2 98.5 98.8 101.2 100.2 100.2 100.2 100.2 100.1 100.2 100. | | | | | | | | | | | | |
| Catainant unemployment (thousands) | Non EU balance on trade in goods (£ million) Non EU exports of goods (excl oil & erratics) Non EU imports of goods (excl oil & erratics) Non EU import & price index (excl oil) ⁷ | ENRX ENUA ENTS ENXR | -28 945 102.1 100.2 | -25 935 96.2 98.5 -5.8 | -7 443 91.8 98.8 -4.7 | -5 498 102.1 101.2 -6.4 | -5 563 102.2 102.9 -4.6 | -5 980 102.9 103.2 -0.7 | -2 566 100.9 106.1 -0.1 | -2 323 107.5 110.6 -1.2 | | 5.1 2.7 |
| VEJA 3808 3628 3561 3566 3503 3475 3468 -0.0 | | | | | | | | | | | | |
| Sterling ERI (1990=100) AGBG 105.8 106.0 106.0 102.3 99.1 99.2 99.2 99.8 100.4 0.4 Average exchange rate /US \$ AUSS 1.44 1.50 1.57 1.60 1.62 1.61 1.61 1.68 1.69 2.4 Average exchange rate /Euro9 THAP 1.61 1.59 1.57 1.49 1.43 1.43 1.43 1.43 1.44 0.3 3 month inter-bank rate 10 3 month inter-bank rate 10 BSAJ 4.03 3.94 3.94 3.57 3.55 3.66 3.66 3.86 3.90 3 month interest on US Treasury bills 11 LUST 1.71 1.20 1.20 1.12 0.89 0.94 0.94 0.94 0.94 0.92 MOnetary conditions/government finances M0 (year on year percentage growth) WQMX 7.1 7.9 7.0 6.0 7.8 8.0 7.8 7.3 8.2 0.94 0.94 0.94 0.94 0.94 0.94 0.94 0.94 | UK employees in manufacturing (thousands) Whole economy productivity ⁸ Manufacturing productivity ⁸ Unit wage costs - whole economy | YEJA LNNN LNNX LNNK | 3 808 101.1 103.3 103.8 | 3 628 102.5 104.8 106.3 | 3 561 103.4 106.0 106.7 | 3 536 103.4 107.2 107.7 | 3 503 103.7 109.7 108.3 | 3 475 104.3 111.1 108.9 | 3 475 111.3 | 3 468 112.7 | | -1.6 -0.8 0.6 1.1 0.6 -0.2 |
| Average exchange rate /US\$ Average exchange rate /US\$ Average exchange rate /Euro9 THAP 1.61 1.59 1.57 1.60 1.62 1.61 1.61 1.68 1.69 2. Average exchange rate /Euro9 THAP 1.61 3 month inter-bank rate 10 3 month interest on US Treasury bills 11 LUST 1.71 1.20 1.20 1.20 1.12 0.89 0.94 0.94 0.94 0.92 Monetary conditions/government finances M0 (year on year percentage growth) VQMX 7.1 7.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 | Financial markets ¹ | | | | | | | | | | | |
| M0 (year on year percentage growth) M4 (year on year percentage growth) Public sector net borrowing (£ million) 1.12 Net lending to consumers (£ million) (broader) 2002 2002 2003 2003 2003 2003 2003 200 | Average exchange rate /US \$ Average exchange rate /Euro ⁹ 3 month inter-bank rate ¹⁰ | AUSS THAP HSAJ | 1.44 1.61 4.03 | 1.50 1.59 3.94 | 1.57 1.57 3.94 | 1.60 1.49 3.57 | 1.62 1.43 3.55 | 1.61 1.43 3.66 | 1.61 1.43 3.66 | 1.68 1.43 3.86 | 1.69 1.44 3.90 | 0.5 2.0 0.5 |
| M4 (year on year percentage growth) Public sector net borrowing (£ million) ^{1,12} Net lending to consumers (£ million)(broader) 2002 2002 2003 2003 2003 2003 2003 200 | Monetary conditions/government finances | | | | | | | | | | | |
| Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Activity and expectations CBI output expectations balance ¹ ETCU 2 -1 2 -1 -5 -10 -3 -6 -4 -3 -3 -4 -2 -8 CBI optimism balance ¹ ETBV -19 -27 -13 -7 | M4 (year on year percentage growth) Public sector net borrowing (£ million) ^{1,12} | VQJW ANNX | 8.0 -760 | 6.0 -22 829 | 6.4 -8 772 | 6.8 -368 | 8.1 –15 047 | 7.0 -6 268 | 6.8 –2 401 | 6.6 –1 606 | 7.0 –5 521 | -6.4 |
| CBI output expectations balance 1 ETCU 2 $^{-1}$ 2 $^{-1}$ 2 $^{-1}$ $^{-5}$ $^{-10}$ $^{-3}$ $^{-6}$ $^{-4}$ $^{-3}$ $^{-3}$ $^{-4}$ $^{-2}$ $^{-2}$ CBI optimism balance 1 ETBV 1 | | | | | | | | | | | | |
| CBI optimism balance ¹ ETBV 1927137 | Activity and expectations | | | | | | | | | | | |
| GB housing starts (thousands) | CBI optimism balance 1 ETBV CBI price expectations balance ETDQ -10 -12 GB housing starts (thousands) CTOZ 15.1 15.8 | –19 –14 16.1 | -15 17.5 | –17 15.8 | –27 –8 | -13 - | – –14 – | 13 14 – | 4 | _9 | –7 –9 - | -10 |

Not seasonally adjusted
 MIPS: mortgage interest payments
 FBTP: food, beverages, tobacco and petroleum
 See footnote 2 on Table 3.1.
 See footnote 2 on Table 4.6
 All Non EU figures exclude Austria, Finland & Sweden
 12 monthly percentage change

⁸ Output per filled job.
9 Prior to January 1999, a synthetic Euro has been calculated by geometrically averaging the bilateral exchange rate of the 11 Euro-area countries using "internal weights" based on each country's share of the extra Euro-area trade
10 Last Friday of the period

¹¹ Last working day
12 Annual figures are for the financial years 2001/2002 and 2002/2003

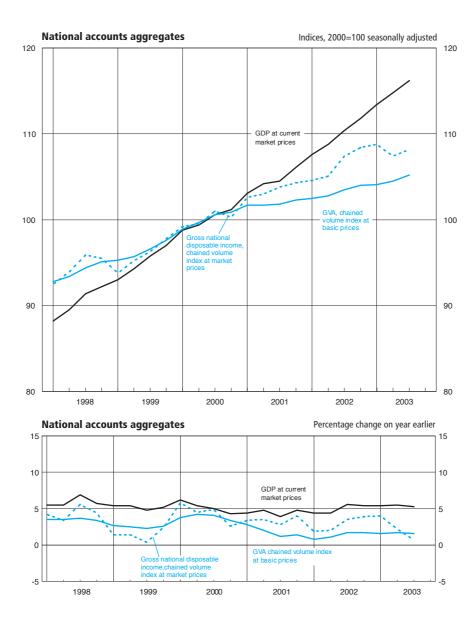
National accounts aggregates

| | £ mi | illion | | | Ind | lices (2000 = 100 | 0) | | | |
|---------------------------------|--|---|---|--|---|--|---|--------------------------------|---------------------|--|
| | At curre | nt prices | Value indices at | current prices | Chained | volume indices (| 2000=100) | Implied deflators ² | | |
| | Gross domestic product at market prices | Gross value added (GVA)at basic prices | Gross domestic product at market prices ¹ | Gross Value added (GVA) at basic prices | Gross national disposable income at market prices | Gross domestic product at market prices | Gross value added (GVA) at basic prices+ | GDP at market prices | GVA at basic prices | |
| Annual 1998 1999 2000 2001 2002 | YBHA | ABML | YBEU | YBEX | YBFP | YBEZ | CGCE | YBGB | CGBV | |
| | 859 436 | 762 359 | 90.3 | 90.8 | 94.5 | 93.7 | 93.9 | 96.4 | 96.7 | |
| | 903 865 | 797 814 | 95.0 | 95.1 | 95.8 [†] | 96.4 | 96.3 | 98.6 | 98.7 | |
| | 951 265 | 839 194 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | |
| | 994 037 | 880 904 | 104.5 | 105.0 | 103.4 | 102.1 | 101.9 | 102.3 | 103.0 | |
| | 1 042 908 [†] | 924 745 [†] | 109.6 | 110.2 | 106.4 | 103.9 | 103.2 | 105.6 | 106.8 | |
| Quarterly | | | | | | | | | | |
| 1998 Q1 | 209 840 | 186 227 | 88.2 | 88.8 | 92.5 | 92.8 | 92.8 | 95.1 | 95.6 | |
| Q2 | 212 891 | 189 021 | 89.5 | 90.1 | 93.9 | 93.2 | 93.4 | 96.1 | 96.5 | |
| Q3 | 217 418 | 192 771 | 91.4 | 91.9 | 95.9 | 94.2 | 94.4 | 97.0 | 97.4 | |
| Q4 | 219 287 | 194 340 | 92.2 | 92.6 | 95.5 | 94.8 | 95.1 | 97.3 | 97.4 | |
| 1999 Q1 | 221 178 | 195 352 | 93.0 | 93.1 | 93.8 [†] | 95.3 | 95.3 | 97.6 | 97.7 | |
| Q2 | 224 190 | 198 440 | 94.3 | 94.6 | 95.2 | 95.6 | 95.7 | 98.6 | 98.8 | |
| Q3 | 227 870 | 201 045 | 95.8 | 95.8 | 96.3 | 96.7 | 96.6 | 99.1 | 99.2 | |
| Q4 | 230 627 | 202 977 | 97.0 | 96.7 | 97.8 | 97.9 | 97.6 | 99.1 | 99.1 | |
| 2000 Q1 | 235 050 | 207 339 | 98.8 | 98.8 | 99.2 | 99.0 | 98.9 | 99.8 | 99.9 | |
| Q2 | 236 352 | 208 160 | 99.4 | 99.2 | 99.5 | 99.7 | 99.7 | 99.7 | 99.6 | |
| Q3 | 239 182 | 211 135 | 100.6 | 100.6 | 101.0 | 100.5 | 100.6 | 100.1 | 100.1 | |
| Q4 | 240 681 | 212 560 | 101.2 | 101.3 | 100.3 | 100.8 | 100.9 | 100.4 | 100.5 | |
| 2001 Q1 | 245 227 | 217 171 | 103.1 | 103.5 | 102.6 | 101.6 | 101.7 | 101.5 | 101.8 | |
| Q2 | 247 908 | 219 657 | 104.2 | 104.7 | 103.0 | 102.0 | 101.7 | 102.2 | 102.9 | |
| Q3 | 248 578 | 220 099 | 104.5 | 104.9 | 103.8 | 102.3 | 101.8 | 102.2 | 103.1 | |
| Q4 | 252 324 | 223 977 | 106.1 | 106.8 | 104.3 | 102.7 | 102.3 | 103.3 | 104.4 | |
| 2002 Q1 | 255 864 [†] | 226 863 [†] | 107.6 [†] | 108.1 [†] | 104.6 | 103.0 | 102.5 | 104.5 [†] | 105.5 [†] | |
| Q2 | 258 634 | 229 239 | 108.8 | 109.3 | 105.1 | 103.4 [†] | 102.8 [†] | 105.2 | 106.3 | |
| Q3 | 262 476 | 232 769 | 110.4 | 110.9 | 107.4 | 104.2 | 103.5 | 105.9 | 107.1 | |
| Q4 | 265 934 | 235 874 | 111.8 | 112.4 | 108.4 | 104.8 | 104.0 | 106.7 | 108.1 | |
| 2003 Q1 | 269 638 | 239 634 | 113.4 | 114.2 | 108.8 | 105.0 | 104.1 | 108.0 | 109.7 | |
| Q2 | 273 004 | 242 536 | 114.8 | 115.6 | 107.4 | 105.6 | 104.5 | 108.7 | 110.7 | |
| Q3 | 276 440 | 245 240 | 116.2 | 116.9 | 108.2 | 106.4 | 105.2 | 109.2 | 111.1 | |
| Percentage | change, quarter | on corresponding | quarter of previou | ıs year ³ | | | | | | |
| Quarterly | | | | | | | | | | |
| 1998 Q1 | 5.6 | 4.9 | 5.6 | 4.9 | 4.2 | 3.5 | 3.5 | 2.1 | 1.4 | |
| Q2 | 5.6 | 5.5 | 5.6 | 5.5 | 3.4 | 2.8 | 3.5 | 2.8 | 1.9 | |
| Q3 | 6.9 | 6.9 | 6.9 | 6.9 | 5.6 | 3.5 | 3.8 | 3.2 | 3.1 | |
| Q4 | 5.8 | 5.9 | 5.8 | 5.9 | 4.4 | 2.8 | 3.4 | 3.0 | 2.5 | |
| 1999 Q1 | 5.4 | 4.9 | 5.4 | 4.9 | 1.4 [†] | 2.7 | 2.7 | 2.6 | 2.2 | |
| Q2 | 5.3 | 5.0 | 5.3 | 5.0 | 1.4 | 2.6 | 2.5 | 2.6 | 2.4 | |
| Q3 | 4.8 | 4.3 | 4.8 | 4.3 | 0.4 | 2.7 | 2.3 | 2.2 | 1.8 | |
| Q4 | 5.2 | 4.4 | 5.2 | 4.4 | 2.4 | 3.3 | 2.6 | 1.8 | 1.7 | |
| 2000 Q1 | 6.3 | 6.1 | 6.3 | 6.1 | 5.8 | 3.9 | 3.8 | 2.3 | 2.3 | |
| Q2 | 5.4 | 4.9 | 5.4 | 4.9 | 4.5 | 4.3 | 4.1 | 1.1 | 0.8 | |
| Q3 | 5.0 | 5.0 | 5.0 | 5.0 | 4.9 | 3.9 | 4.1 | 1.0 | 0.9 | |
| Q4 | 4.4 | 4.7 | 4.4 | 4.7 | 2.6 | 3.0 | 3.3 | 1.3 | 1.4 | |
| 2001 Q1 | 4.3 | 4.7 | 4.3 | 4.7 | 3.4 | 2.6 | 2.8 | 1.7 | 1.9 | |
| Q2 | 4.9 | 5.5 | 4.9 | 5.5 | 3.5 | 2.3 | 2.1 | 2.5 | 3.3 | |
| Q3 | 3.9 | 4.2 | 3.9 | 4.2 | 2.8 | 1.8 | 1.2 | 2.1 | 3.0 | |
| Q4 | 4.8 | 5.4 | 4.8 | 5.4 | 4.0 | 1.9 | 1.4 | 2.9 | 3.9 | |
| 2002 Q1 | 4.3 [†] | 4.5 [†] | 4.3 [†] | 4.5 [†] | 1.9 | 1.4 | | 3.0 [†] | 3.6 [†] | |
| Q2 | 4.3 | 4.4 | 4.3 | 4.4 | 2.0 | 1.4 [†] | | 2.9 | 3.3 | |
| Q3 | 5.6 | 5.8 | 5.6 | 5.8 | 3.5 | 1.9 | | 3.6 | 3.9 | |
| Q4 | 5.4 | 5.3 | 5.4 | 5.3 | 3.9 | 2.0 | | 3.3 | 3.5 | |
| 2003 Q1 | 5.4 | 5.6 | 5.4 | 5.6 | 4.0 | 1.9 | 1.5 | 3.3 | 4.0 | |
| Q2 | 5.6 | 5.8 | 5.6 | 5.8 | 2.2 | 2.1 | 1.6 | 3.3 | 4.1 | |
| Q3 | 5.3 | 5.4 | 5.3 | 5.4 | 0.7 | 2.1 | 1.6 | 3.1 | 3.7 | |

Source: Office for National Statistics; Enquiries 020 7533 6031

 [&]quot;Money GDP."
 Based on chained volume measures and current price estimates of expenditure components of GDP.

³ These estimates of change are based in some cases on less rounded figures than in the table.



2.2 Gross domestic product : by category of expenditure Chained volume measures

Reference year 2000, £ million

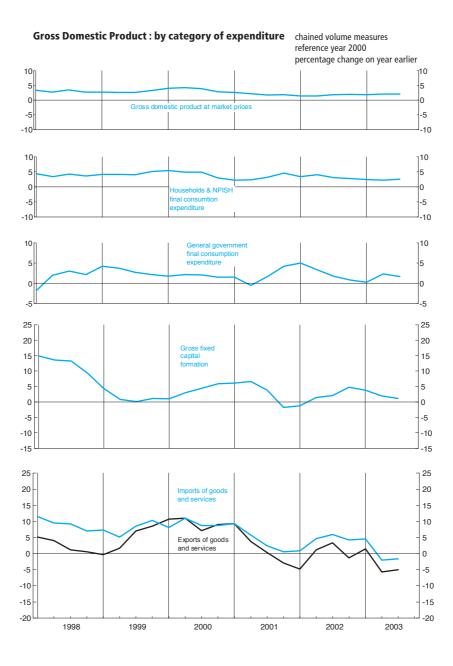
| | | Domestic (| expenditure on | goods and ser | vices at ma | arket prices | | | | | | |
|--------------------------------------|--|---|---|--|---|--|--|---|---|---|--|--|
| | Final co | nsumption e | expenditure | Gross | capital form | ation | | | | | 04-4:- | |
| | House- holds | Non- profit instit- utions ² | General government | Gross fixed capital formation+ | Changes in inven- tories ³ | Acquisi- tions less disposals of valuables | Total | Exports of goods and services+ | Gross final expend- iture | less Imports of goods and services+ | Statis- tical discre- pancy (expen- diture) | Gross domestic product at market prices |
| Annual | | | | | | | | | | | | |
| 1998 1999 2000 2001 2002 | ABJR 552 186 577 665 603 349 622 136 643 107 [†] | HAYO 21 713 21 543 23 188 23 845 24 548 [†] | NMRY 169 085 174 445 177 794 180 875 185 799 | NPQT 153 148 155 576 161 210 167 032 170 004 [†] | CAFU 4 913 6 426 5 271 2 938 1 496 | NPJR 57 28 3 362 195 [†] | YBIM 901 069 935 377 970 815 997 188 1 025 149 [†] | IKBK 233 982 243 985 267 007 273 724 272 605 | ABMG 1 135 080 1 179 410 1 237 822 1 270 912 1 297 754 | IKBL 243 400 262 601 286 557 299 347 311 211 | GIXS - - - - 1 389 [†] | ABMI 891 684 916 639 951 265 971 565 987 932 [†] |
| Quarterly | | | | | | | | | | | | |
| 1998 Q1 Q2 Q3 Q4 | 136 298 137 464 138 653 139 771 | 5 368 5 433 5 476 5 436 | 41 431 42 245 42 646 42 763 | 37 275 38 029 38 621 39 223 | 427 230 1 990 2 266 | 31 7 9 10 | 221 423 223 461 227 037 229 148 | 58 221 58 967 58 413 58 381 | 279 669 282 474 285 441 287 496 | 59 146 60 854 61 377 62 023 | - - - | 220 584 221 598 224 047 225 455 |
| 1999 Q1 Q2 Q3 Q4 | 142 213 143 625 144 613 147 214 | 5 415 5 336 5 358 5 434 | 43 184 43 789 43 787 43 685 | 38 907 38 331 38 674 39 664 | 2 742 476 1 677 1 531 | 5 24 –15 14 | 232 122 231 457 233 974 237 824 | 58 044 59 973 62 579 63 389 | 290 132 291 433 296 598 301 247 | 63 516 64 024 66 678 68 383 | - - - - | 226 585 227 382 229 864 232 808 |
| 2000 Q1 Q2 Q3 Q4 | 150 128 150 469 151 397 151 355 | 5 666 5 766 5 858 5 898 | 43 969 44 748 44 716 44 361 | 39 298 39 471 40 417 42 024 | 819 1 262 1 941 1 249 | 1 - -3 5 | 239 970 241 682 244 269 244 894 | 64 272 66 551 67 103 69 081 | 304 263 308 235 311 366 313 958 | 68 664 71 071 72 467 74 355 | - - - | 235 554 237 160 238 914 239 637 |
| 2001 Q1 Q2 Q3 Q4 | 153 291 153 965 156 368 158 512 | 6 005 5 964 5 945 5 931 | 44 635 44 541 45 489 46 210 | 41 707 42 069 41 974 41 282 | 795 1 806 355 –18 | -34 251 33 112 | 246 399 248 596 250 164 252 029 | 70 235 69 074 67 340 67 075 | 316 634 317 670 317 504 319 104 | 75 053 75 211 74 287 74 796 | - - - - | 241 581 242 459 243 218 244 307 |
| 2002 Q1 Q2 Q3 Q4 | 158 674 [†] 160 450 161 201 162 782 | 6 064 [†] 6 087 6 166 6 231 | 46 878 [†] 46 029 46 318 46 574 | 41 206 [†] 42 702 42 837 43 259 | 736 [†] –778 10 1 528 | 59 50 77 [†] 9 | 253 617 [†] 254 540 256 609 260 383 | 66 875 [†] 69 887 69 616 66 227 | 320 492 [†] 324 427 326 225 326 610 | 75 740 [†] 78 720 78 717 78 034 | 137 [†] 255 407 590 | 244 888 [†] 245 962 247 916 249 166 |
| 2003 Q1 Q2 Q3 | 162 534 163 812 165 261 | 6 347 6 385 6 475 | 47 040 47 087 47 111 | 42 765 43 560 43 359 | 1 206 139 973 | -1 96 -62 | 259 890 261 079 263 117 | 67 902 65 915 66 170 | 327 792 326 994 329 287 | 79 210 77 117 77 489 | 1 021 1 189 1 307 | 249 603 251 065 253 104 |
| Percentage | change, lates | st quarter or | n corresponding | quarter of pre | vious year | | | | | | | |
| 1998 Q1 Q2 Q3 Q4 | 4.2 3.4 4.2 3.6 | 11.4 5.2 8.1 3.8 | -1.8 2.0 3.0 2.2 | 14.9 13.6 13.3 9.3 | | | 5.2 4.3 5.8 4.6 | 5.2 4.1 1.2 0.6 | 5.2 4.3 4.8 3.7 | 11.5 9.5 9.2 7.0 | | 3.4 2.8 3.5 2.8 |
| 1999 Q1 Q2 Q3 Q4 | 4.3 4.5 4.3 5.3 | 0.9 -1.8 -2.2 0.0 | 4.2 3.7 2.7 2.2 | 4.4 0.8 0.1 1.1 | | | 4.8 3.6 3.1 3.8 | -0.3 1.7 7.1 8.6 | 3.7 3.2 3.9 4.8 | 7.4 5.2 8.6 10.3 | | 2.7 2.6 2.6 3.3 |
| 2000 Q1 Q2 Q3 Q4 | 5.6 4.8 4.7 2.8 | 4.6 8.1 9.3 8.5 | 1.8 2.2 2.1 1.5 | 1.0 3.0 4.5 5.9 | | | 3.4 4.4 4.4 3.0 | 10.7 11.0 7.2 9.0 | 4.9 5.8 5.0 4.2 | 8.1 11.0 8.7 8.7 | | 4.0 4.3 3.9 2.9 |
| 2001 Q1 Q2 Q3 Q4 | 2.1 2.3 3.3 4.7 | 6.0 3.4 1.5 0.6 | 1.5 -0.5 1.7 4.2 | 6.1 6.6 3.9 -1.8 | | | 2.7 2.9 2.4 2.9 | 9.3 3.8 0.4 -2.9 | 4.1 3.1 2.0 1.6 | 9.3 5.8 2.5 0.6 | | 2.6 2.2 1.8 1.9 |
| 2002 Q1 Q2 Q3 Q4 | 3.5 [†] 4.2 3.1 2.7 | 1.0 2.1 3.7 5.1 | 5.0 [†] 3.3 1.8 0.8 | -1.2 [†] 1.5 2.1 4.8 | | | 2.9 [†] 2.4 2.6 3.3 | -4.8 [†] 1.2 3.4 -1.3 | 1.2 2.1 2.7 [†] 2.4 | 0.9 [†] 4.7 6.0 4.3 | | 1.4 [†] 1.4 1.9 2.0 |
| 2003 Q1 Q2 Q3 | 2.4 2.1 2.5 | 4.7 [†] 4.9 5.0 | 0.3 2.3 1.7 | 3.8 2.0 1.2 | | | 2.5 2.6 2.5 | 1.5 -5.7 -5.0 | 2.3 0.8 0.9 | 4.6 -2.0 -1.6 | | 1.9 2.1 2.1 |

¹ Estimates given to nearest million but cannot be regarded as accurate to the 3 Quarterly alignment adjustment included in this series.

Source: Office for National Statistics; Enquiries 020 7533 6031

degree.

2 Non-profit making institutions serving households(NPISH).



2.3 Gross domestic product and shares of income and expenditure

| | | | Percentage s | share of gro | oss final exp | enditure | Percent | age share c | of GDP by categ | ory of income | |
|--------------|------------------------|-------------------------|--------------------------|----------------------------|-------------------------------|--|--------------------------------|--------------------|---------------------------|---------------|---------------------------------|
| | Gross domestic | - | Final consur expendit | | | Evporto | Gross operating s | surplus | | | |
| | product at market | Gross final expenditure | Household and NPISH | General govern -ment | Gross capital formation | Exports - of goods and services | Corporat- ions ¹ | Other ² | Compensation of employees | Mixed income | Taxes on production and imports |
| Annual | | | | | | | | | | | |
| 1000 | YBHA | ABMF | IHXI | IHXJ | IHXK | IHXL | IHXM | IHXO | IHXP | IHXQ | IHXR |
| 1999 2000 | 903 865 951 265 | 1 158 576 1 237 822 | 51.2 50.6 | 14.4 14.4 | 13.9 13.4 | 20.6 21.5 | 22.5 21.9 | 3.3 2.6 | 54.8 56.0 | 6.0 6.0 | 13.4 13.5 |
| 2000 | 994 037 | 1 293 365 | 51.1 | 14.4 | 13.4 | 21.0 | 21.9 | 2.8 | 56.8 | 6.0 | 13.5 |
| 2002 | 1 042 908 [†] | 1 346 155 [†] | 51.3 [†] | 15.6 [†] | 12.8 | 20.3 | 21.5 [†] | 3.0 | | 6.1 | 13.1 |
| Quarterly | , | | | | | | | | | | |
| 1999 Q1 | 221 178 | 282 661 | 51.4 | 14.3 | 14.3 | 20.1 | 21.4 | 4.3 | 55.0 | 5.9 | 13.4 |
| Q2 | 224 190 | 285 936 | 51.4 | 14.6 | 13.5 | 20.5 | 22.8 | 3.2 | 54.8 | 6.0 | 13.2 |
| Q3 | 227 870 | 292 622 | 50.8 | 14.4 | 13.9 | 20.9 | 22.9 | 2.7 | 54.9 | 6.0 | 13.5 |
| Q4 | 230 627 | 297 357 | 51.0 | 14.2 | 13.8 | 20.9 | 22.7 | 3.0 | 54.6 | 6.0 | 13.7 |
| 2000 Q1 | 235 050 | 302 357 | 51.3 | 14.2 | 13.6 | 20.9 | 23.1 | 2.6 | 54.9 | 6.0 | 13.5 |
| Q2 | 236 352 | 306 817 | 50.8 | 14.4 | 13.2 | 21.5 | 22.4 | 2.4 | 55.7 | 5.9 | 13.6 |
| Q3 | 239 182 | 312 187 | 50.4 | 14.5 | 13.5 | 21.7 | 21.5 | 2.7 | 56.3 | 6.1 | 13.4 |
| Q4 | 240 681 | 316 461 | 50.0 | 14.4 | 13.5 | 22.1 | 20.7 | 2.8 | 57.1 | 6.0 | 13.4 |
| 2001 Q1 | 245 227 | 321 527 | 50.2 | 14.4 | 13.4 | 22.1 | 21.2 | 2.7 | 56.9 | 6.0 | 13.1 |
| Q2 | 247 908 | 324 212 | 50.4 | 14.5 | 13.6 | 21.5 | 21.0 | 3.4 | 56.5 | 6.1 | 13.1 |
| Q3 | 248 578 | 322 409 | 51.7 | 14.9 | 13.2 | 20.2 | 21.3 | 2.5 | 56.8 | 6.2 | 13.2 |
| Q4 | 252 324 | 325 217 | 52.0 | 15.3 | 12.5 | 20.3 | 21.3 | 2.8 | 56.8 | 6.2 | 12.9 |
| 2002 Q1 | 255 864 [†] | 330 341 [†] | 51.6 [†] | 15.5 | 12.6 [†] | 20.3 | 21.3 [†] | 2.9 ¹ | 56.6 ⁻¹ | 6.2 | 13.1 |
| Q2 | 258 634 | 335 826 | 51.2 | 15.5 [†] | 12.4 | 20.9 | 20.9 | 3.4 | 56.5 | 6.1 | 13.1 [†] |
| Q3 | 262 476 | 338 896 | 51.1 | 15.6 | 12.8 | 20.5 [†] | 21.7 | 2.9 | 56.3 | 6.1 | 13.0 |
| Q4 | 265 934 | 341 092 | 51.5 | 15.7 | 13.3 | 19.5 | 22.2 | 2.8 | 56.0 | 6.1 | 13.0 |
| 2003 Q1 | 269 638 | 345 725 | 51.1 | 16.2 | 12.8 | 19.9 | 22.5 | 2.7 | 55.9 | 6.1 | 12.9 |
| Q2 | 273 004 | 347 464 | 51.3 | 16.6 | 12.8 | 19.2 | 22.3 | 2.8 | 56.0 | 6.1 | 12.9 |
| Q3 | 276 440 | 351 425 | 51.4 | 16.5 | 12.9 | 19.2 | 22.4 | 2.7 | 56.0 | 6.1 | 13.0 |

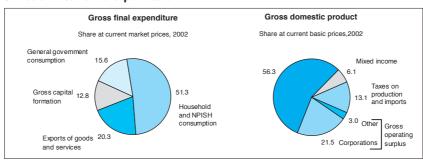
Source: Office for National Statistics; Enquiries 020 7533 6031

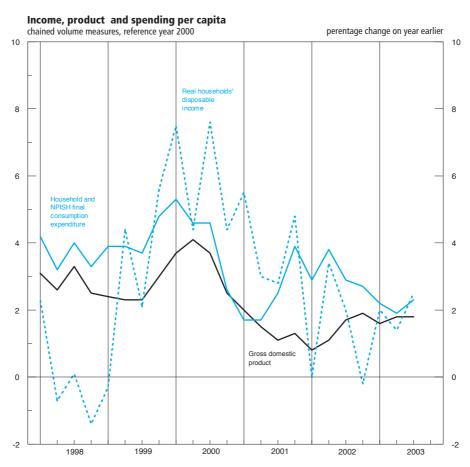
2.4 Income, product and spending per head

| | | At current p | orices | | Chained volume | measures (reference y | ear 2000) |
|-----------|--|---|--|--|---|--|---|
| | Gross national income at market prices | Gross domestic product at market prices | Household and NPISH final consumption expenditure | Households' gross disposable income | Gross domestic product at market prices | Household and NPISH final consumption expenditure | Real households' disposable income |
| Annual | | | | | | | |
| | IHXS | IHXT | IHXU | IHXV | IHXW | IHXX | IHXZ |
| 2000 | 16 327 | 16 221 | 10 684 | 11 162 | 16 221 | 10 684 | 11 163 |
| 2001 | 17 059 | 16 839 | 11 188 | 11 867 | 16 459 | 10 943 | 11 609 |
| 2002 | 17 954 ^T | 17 614 ^T | 11 678 ^T | 12 179 [†] | 16 686 [†] | 11 277 [†] | 11 760 |
| Quarterly | | | | | | | |
| 2000 Q1 | 4 048 | 4 014 | 2 649 | 2 726 | 4 023 | 2 661 | 2 739 |
| Q2 | 4 050 | 4 034 | 2 661 | 2 771 | 4 048 | 2 666 | 2 777 |
| Q3 | 4 120 | 4 077 | 2 682 | 2 821 | 4 073 | 2 681 | 2 819 |
| Q4 | 4 109 | 4 096 | 2 692 | 2 844 | 4 077 | 2 676 | 2 828 |
| 2001 Q1 | 4 217 | 4 165 | 2 740 | 2 925 | 4 103 | 2 705 | 2 889 |
| Q2 | 4 253 | 4 202 | 2 771 | 2 923 | 4 110 | 2 711 | 2 860 |
| Q3 | 4 272 | 4 207 | 2 820 | 2 974 | 4 116 | 2 747 | 2 897 |
| Q4 | 4 317 | 4 265 | 2 857 | 3 045 | 4 130 | 2 780 | 2 963 |
| 2002 Q1 | 4 375 [†] | 4 322 [†] | 2 877 [†] | 2 987 [†] | 4 137 [†] | 2 783 [†] | 2 890 |
| Q2 | 4 415 | 4 368 | 2 905 | 3 055 | 4 154 | 2 813 | 2 957 |
| Q3 | 4 548 | 4 433 | 2 927 | 3 060 | 4 187 | 2 827 | 2 955 |
| Q4 | 4 616 | 4 491 | 2 969 | 3 077 | 4 208 | 2 854 | 2 958 |
| 2003 Q1 | 4 670 | 4 541 | 2 974 | 3 082 | 4 204 | 2 844 | 2 948 |
| Q2 | 4 655 | 4 598 | 3 002 | 3 141 | 4 229 | 2 867 | 2 999 |
| Q3 | 4 704 | 4 656 | 3 039 | 3 183 | 4 263 | 2 892 | 3 029 |

¹ Non-financial and financial corporations 2 Gross operating surplus of General government, and Households and NPISH plus the adjustment for financial services.

Shares of income and expenditure





Households¹ disposable income and consumption

| | | | £ million, | current prices | | | | £ mil chained volum reference y | ne measures, | |
|-----------|----------------------|------------------------------------|--|---|-----------------------------------|-------------------------------|---|---|--------------------------------|--|
| | inc | eholds' ome re tax | Gross | Adjustment for the change in net | | Households' | | Real | Household | Real households' |
| | Total | of which: Wages and salaries | households' disposable income ² | equity of households in pension funds | Households' Total resources | final consumption expenditure | Households' saving ratio ³ (percentage)+ | households' disposable income+ ⁴ | final consumption expenditure+ | disposable income (index 2000=100) |
| Annual | RPHP | ROYJ | RPHQ | RPQJ | RPQK | RPQM | NRJS | NRJR | NPSP | OSXS |
| 2000 | 958 450 | 457 473 | 654 649 | 8 620 | 663 269 | 626 537 | 5.5 | 654 649 | 626 537 | 100.0 |
| 2001 | 1 011 310 | 484 906 | 700 538 | 7 453 | 707 991 | 660 380 | 6.7 | 685 263 | 645 981 | 104.6 |
| 2002 | 1 045 374 | 502 962 | 721 044 | 10 201 | 731 245 | 691 457 | 5.4 | 696 224 [†] | 667 655 | 106.3 |
| Quarterly | | | | | | | | | | |
| 2000 Q1 | 230 454 [†] | 111 597 | 159 378 [†] | 2 296 | 161 674 [†] | 155 089 | 4.1 [†] | 160 106 [†] | 155 791 | 97.8 [†] |
| Q2 | 237 963 | 113 150 | 162 435 | 1 022 | 163 457 | 155 917 | 4.6 | 162 773 | 156 235 | 99.5 |
| Q3 | 242 703 | 115 371 | 165 558 | 2 120 | 167 678 | 157 366 | 6.1 | 165 450 | 157 257 | 101.1 |
| Q4 | 247 330 | 117 355 | 167 278 | 3 182 | 170 460 | 158 165 | 7.2 | 166 320 | 157 254 | 101.6 |
| 2001 Q1 | 250 508 | 119 480 | 171 835 | 2 583 | 174 418 | 161 306 | 7.5 | 169 693 | 159 296 | 103.7 |
| Q2 | 249 718 | 120 487 | 172 532 | 1 628 | 174 160 | 163 458 | 6.1 | 168 806 | 159 929 | 103.1 |
| Q3 | 252 088 | 121 788 | 175 818 | 1 550 | 177 368 | 166 625 | 6.1 | 171 267 | 162 313 | 104.6 |
| Q4 | 258 996 | 123 151 | 180 353 | 1 692 | 182 045 | 168 991 | 7.2 | 175 497 | 164 443 | 107.2 |
| 2002 Q1 | 256 999 | 124 025 [†] | 176 825 | 3 038 [†] | 179 863 | 170 302 [†] | 5.3 | 171 046 | 164 738 [†] | 104.5 |
| Q2 | 261 223 | 125 623 | 180 860 | 1 880 | 182 740 | 172 025 | 5.9 | 175 088 | 166 537 | 107.0 |
| Q3 | 263 082 | 126 043 | 181 170 | 2 488 | 183 658 | 173 303 | 5.6 | 174 963 | 167 367 | 106.9 |
| Q4 | 264 070 | 127 271 | 182 189 | 2 795 | 184 984 | 175 827 | 5.0 | 175 127 | 169 013 | 107.0 |
| 2003 Q1 | 267 229 | 128 408 | 183 014 | 3 459 | 186 473 | 176 575 | 5.3 | 175 039 | 168 881 | 107.0 |
| Q2 | 271 501 | 129 474 | 186 493 | 1 771 | 188 264 | 178 229 | 5.3 | 178 089 | 170 197 | 108.8 |
| Q3 | 276 368 | 131 058 | 188 973 | 2 843 | 191 816 | 180 457 | 5.9 | 179 840 | 171 736 | 109.9 |

¹ All households series include also Non-Profit Institutions Serving House-

Sources: Office for National Statistics; Enquiries Column 1 020 7533 6005; Columns 2-5.7.8.10 020 7533 6027; Columns 6.9 020 7533 5999

Household final consumption expenditure^{1,2} **Chained volume measures**

Reference year 2000, £ million

| | UK National ⁴ | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Uk | Domes | tic ⁵ | | | | | |
| | Total 1 | Net tourism | Total | Food & drink | Alcohol & tobacco | Clothing & footwear | Housing | House- hold goods & services | Health | Trans- | Communi- cation | Recreat- ion & culture | Educat- | Restaur- ants & hotels | Miscell- aneous |
| COICOP3 | - | - | 0 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
| Annual 2000 2001 2002 | ABJR 603 349 622 136 643 107 | ABTH 6 941 9 317 10 491 | ZAKW 596 408 612 819 632 616 | ZWUN 58 563 57 919 58 395 | ZAKY 24 617 24 588 25 198 | ZALA 35 479 38 103 41 506 | ZAVO 105 654 107 220 108 652 | ZAVW 35 667 38 524 42 581 | 8 961, | ZAWM 89 656 92 791 95 782 | ZAWW 13 356 15 195 15 805 | ZAXA 72 217 76 835 80 329 | ZWUT 9 634 8 607 7 522 | ZAXS 68 424 68 694 70 449 | |
| Quarters | | | | | | | | | | | | | | | |
| 2000 Q1 Q2 Q3 Q4 | 150 128 150 469 151 397 151 355 | 1 538 1 641 1 770 1 992 | 148 571 148 825 149 639 149 373 | 14 637 14 607 14 717 14 602 | 6 220 6 155 6 131 6 111 | 8 590 8 840 9 064 8 985 | 26 315 26 431 26 393 26 515 | 8 897 8 947 9 000 8 823 | 2 224 2 253 2 257 2 253 | 22 077 22 104 22 541 22 934 | 3 195 3 305 3 368 3 488 | 18 212 17 952 18 200 17 853 | 2 535 2 439 2 363 2 297 | 17 093 17 036 17 095 17 200 | 18 591 18 766 18 490 18 307 |
| 2001 Q1 Q2 Q3 Q4 | 153 291 153 965 156 368 158 512 | 1 944 2 391 2 484 2 498 | 151 347 151 574 153 884 156 014 | 14 612 14 146 14 328 14 833 | 6 059 6 137 6 193 6 199 | 9 119 9 379 9 675 9 930 | 26 691 26 757 26 868 26 904 | 9 297 9 439 9 725 10 063 | 2 337 2 226 2 188 2 210 | 22 840 22 840 23 453 23 658 | 3 712 3 784 3 802 3 897 | 18 605 19 072 19 393 19 765 | 2 274 2 209 2 128 1 996 | 17 162 17 003 17 310 17 219 | 18 639 18 582 18 821 19 340 |
| 2002 Q1 Q2 Q3 Q4 | 158 674 [†] 160 450 161 201 162 782 | 2 676 [†] 2 621 2 654 2 540 | 155 998 [†] 157 829 158 547 160 242 | 14 384 [†] 14 430 14 690 14 891 | 6 228 [†] 6 300 6 301 6 369 | 10 162 [†] 10 282 10 444 10 618 | 26 986 [†] 27 093 27 253 27 320 | 10 323 [†] 10 472 10 795 10 991 | 2 228 [†] 2 295 2 387 2 471 | 23 576 [†] 24 219 23 974 24 013 | 3 869 [†] 3 957 3 992 3 987 | 19 902 [†] 19 937 20 075 20 415 | 1 965 [†] 1 891 1 862 1 804 | 17 554 [†] 17 755 17 520 17 620 | 18 821 [†] 19 198 19 254 19 743 |
| 2003 Q1 Q2 Q3 | 162 534 163 812 165 261 | 3 107 2 751 2 467 | 159 427 161 061 162 794 | 14 830 15 141 15 175 | 6 350 6 344 6 410 | 10 683 10 950 10 999 | 27 369 27 317 27 371 | 10 498 10 801 10 766 | 2 508 2 520 2 526 | 24 264 24 395 24 633 | 3 989 4 032 4 073 | 20 558 21 019 21 673 | 1 839 1 883 1 943 | 17 410 17 445 17 795 | 19 129 19 214 19 430 |

¹ Estimates are given to the nearest £million but cannot be regarded as accurate to this degree.

holds (NPISH).

2 Total household income less payments of income tax and other taxes, social contributions and other current transfers.

 $^{{\}bf 3}\,$ Households saving as a percentage of Total resources; this is the sum

of Gross household disposable income and the Adjustment for the change in net equity of households in pension funds (D.8).
Gross household disposable income revalued by the implied Household and

NPISH final consumption expenditure deflator (2000 = 100).

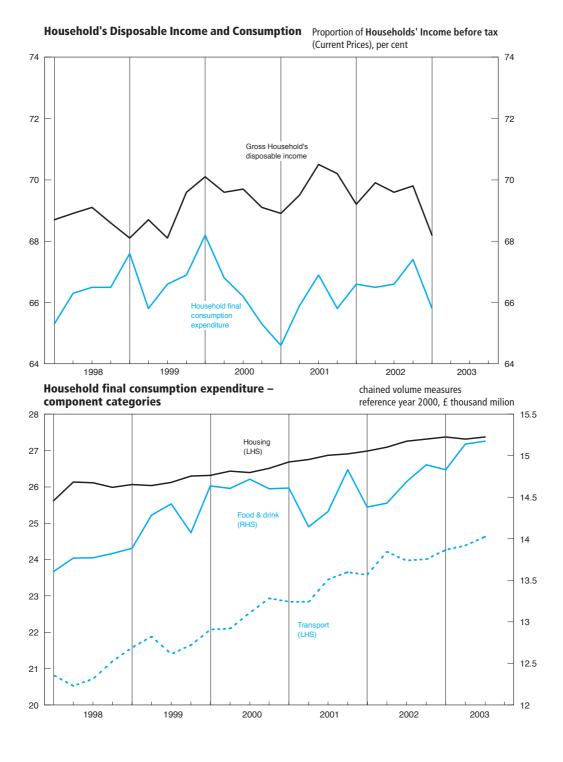
² More detailed estimates of Household Final Consumption Expenditure, expressed in both current prices and chained volume measures

and both unadjusted and seasonally adjusted appear in the ONS publication Consumer Trends.

³ ESA 95 Classification of Individual Consumption by Purpose 4 Final consumption expenditure by UK households in the UK & abroad

⁵ Final consumption expenditure in the UK by UK & foreign households

Source: Office for National Statistics; Enquiries 020 7533 5999



Gross fixed capital formation Chained volume measures

Reference year 2000, £ million

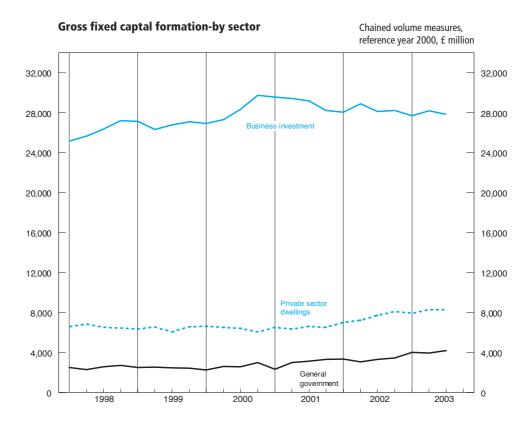
| | | | Analysis I | • | | | | | An | alysis by as | set | |
|---------------|----------------------------------|-------------------------------|----------------|--|-------------------------------|--|---------------------------------|-------------------------------|--------------------------------|-------------------------------|---|-------------------------------|
| | | | Public cor | rporations ² | Priva | te sector | | | | | | |
| | Business investment ¹ | General government | NHS trusts | Transfer costs of non-produc- ed assets | Dwellings | Transfer costs of non-produc- ed assets | Total+ | Transport equipment | Other machinery and equipment | Dwellings | Other building and structures ³ | Intangible fixed assets |
| Annual | | | | | | | | | | | | |
| 1998 | NPEL 104 385 | DLWF 10 086 | DFTI 1 522 | DLWH -278 | DFEA 26 377 | DLWI 10.510 | NPQT 153 148 | DLWL 16 455 | DLWO 53 491 | DFEG 28 490 | DLWT 50 677 | EQDO 4 782 |
| 1999 | 107 359 | 9 935 | 1 441 | 4 | 25 508 | 11 485 | 155 576 | 15 128 | 56 849 | 27 372 | 51 760 | 4 758 |
| 2000 2001 | 112 302 116 337 | 10 412 | 1 680 | 6 | 25 604 | | 161 210 | 13 444 | 62 698 | 27 394 | 52 708 | 4 966 |
| 2002 | 113 296 [†] | 11 744 13 135 [†] | 1 862 1 557 | –55 –14 | 25 937 30 026 ¹ | 12 004 [†] | 167 032 170 004 ¹ | 15 296 16 183 [†] | 65 290 61 739 [†] | 27 999 32 825 [†] | 53 524 53 858 [†] | 4 923 5 399 |
| Quarterly | | | | | | | | | | | | |
| 1998 Q1 | 25 149 | 2 501 | 413 | -78 | 6 574 | 2 448 | 37 275 | 4 036 | 12 808 | 7 085 | 12 517 | 1 103 |
| Q2 | 25 667 | 2 291 | 385 | -82 | 6 824 | 2 955 | 38 029 | 4 017 | 12 987 | 7 374 | 12 780 | 1 178 |
| Q3 Q4 | 26 360 27 209 | 2 576 2 718 | 354 370 | –76 –42 | 6 532 6 447 | 2 772 2 335 | 38 621 39 223 | 4 137 4 265 | 13 352 14 344 | 7 125 6 906 | 12 886 12 494 | 1 264 1 237 |
| 1999 Q1 | 27 146 | 2 512 | 363 | -10 | 6 345 | 2 481 | 38 907 | 3 986 | 13 909 | 6 735 | 13 162 | 1 152 |
| Q2 | 26 336 | 2 516 | 322 | 2 | 6 536 | 2 662 | 38 331 | 3 592 | 13 991 | 7 181 | 12 477 | 1 183 |
| Q3 Q4 | 26 785 27 092 | 2 467 2 440 | 379 377 | 5 7 | 6 053 6 574 | 3 019 3 323 | 38 674 39 664 | 3 763 3 787 | 14 558 14 391 | 6 423 7 033 | 12 763 13 358 | 1 196 1 227 |
| | | | | | | | | | | | | |
| 2000 Q1 Q2 | 26 931 27 299 | 2 243 2 607 | 457 366 | 6 2 | 6 638 6 511 | 3 126 2 684 | 39 298 39 471 | 3 364 3 276 | 14 508 15 163 | 7 016 6 970 | 13 301 12 826 | 1 203 1 253 |
| Q3 | 28 317 | 2 555 | 409 | -1 | 6 389 | 2 722 | 40 417 | 3 290 | 16 038 | 6 819 | 12 985 | 1 246 |
| Q4 | 29 755 | 3 007 | 448 | -1 | 6 066 | 2 674 | 42 024 | 3 514 | 16 989 | 6 589 | 13 596 | 1 264 |
| 2001 Q1 Q2 | 29 551 29 407 | 2 321 2 989 | 482 545 | 15 –13 | 6 499 6 327 | 2 839 2 814 | 41 707 42 069 | 3 463 3 911 | 16 565 16 257 | 7 044 6 769 | 13 403 13 910 | 1 232 1 222 |
| Q3 | 29 156 | 3 129 | 414 | -15 -25 | 6 617 | 2 683 | 41 974 | 4 037 | 16 268 | 7 142 | 13 293 | 1 234 |
| Q4 | 28 223 | 3 305 | 421 | -32 | 6 494 | 2 871 | 41 282 | 3 885 | 16 200 | 7 044 | 12 918 | 1 235 |
| 2002 Q1 | 28 064 [†] | | | | 7 007 | | | | | | | |
| Q2 Q3 | 28 904 28 118 | 3 042 3 313 | 419 486 | 16 <i>–</i> 20 | 7 211 7 697 | 3 110 3 243 | 42 702 42 837 | 4 001 4 188 | 16 211 15 164 | 7 812 8 401 | 13 326 13 721 | 1 352 1 363 |
| Q4 | 28 210 | 3 434 | 466 | -23 | 8 111 | 3 061 | 43 259 | 4 153 | 14 955 | 9 040 | 13 684 | 1 427 |
| 2003 Q1 | 27 706 | 3 999 | 372 | -26 | 7 916 | 2 798 | 42 765 | 4 068 | 14 865 | 8 590 | 13 848 | 1 394 |
| Q2 Q3 | 28 182 27 840 | 3 957 4 180 | 434 419 | –29 ¹ –71 | 8 273 8 282 | 2 743 2 709 | 43 560 43 359 | 3 800 3 821 | 14 744 14 518 | 9 100 9 152 | 14 508 14 460 | 1 408 1 408 |
| D | | | <i>I</i> | | | | | | | | | |
| _ | e change, lates | | | quarter of pre | - | | 440 | 400 | | 0.0 | | |
| 1998 Q1 Q2 | 19.0 18.0 | 6.8 21.5 | 29.1 11.9 | | -0.2 10.4 | 3.2 -30.9 | 14.9 13.6 | 16.2 25.7 | 28.0 16.0 | -2.6 9.8 | 11.7 11.0 | -5.4 -6.1 |
| Q3 | 19.9 | 4.1 | -6.6 | | 0.7 | -8.9 | 13.3 | 22.9 | 22.6 | 1.9 | 5.4 | 7.4 |
| Q4 | 15.8 | 10.0 | 3.9 | | -5.6 | -16.3 | 9.3 | 25.7 | | -5.3 | -4.8 | 7.2 |
| 1999 Q1 Q2 | 7.9 2.6 | 0.4 9.8 | -12.1 -16.4 | | −3.5 −4.2 | 1.3 -9.9 | 4.4 0.8 | -1.2 -10.6 | 8.6 7.7 | <i>−4.9</i> <i>−2.6</i> | 5.2 -2.4 | 4.4 0.4 |
| Q2 Q3 | 1.6 | 9.6 -4.2 | 7.1 | | -4.2 -7.3 | -9.9 8.9 | 0.8 | -10.6 -9.0 | | -2.0 -9.9 | -2.4 -1.0 | -5.4 |
| Q4 | -0.4 | -10.2 | 1.9 | | 2.0 | 42.3 | 1.1 | -11.2 | 0.3 | 1.8 | 6.9 | -0.8 |
| 2000 Q1 | -0.8 | -10.7 | | | 4.6 | 26.0 | 1.0 | -15.6 | 4.3 | 4.2 | 1.1 | 4.4 |
| Q2 Q3 | 3.7 5.7 | 3.6 3.6 | 13.7 7.9 | | -0.4 5.6 | 0.8 -9.8 | 3.0 4.5 | -8.8 -12.6 | 8.4 10.2 | -2.9 6.2 | 2.8 1.7 | 5.9 <i>4.</i> 2 |
| Q4 | 9.8 | 23.2 | 18.8 | | -7.7 | -19.5 | 5.9 | -7.2 | 18.1 | -6.3 | 1.8 | 3.0 |
| 2001 Q1 | 9.7 | 3.5 | 5.5 | | -2.1 | -9.2 | 6.1 | 2.9 | 14.2 | 0.4 | 0.8 | 2.4 |
| Q2 Q3 | 7.7 3.0 | 14.7 22.5 | 48.9 1.2 | | -2.8 3.6 | 4.8 -1.4 | 6.6 3.9 | 19.4 22.7 | 7.2 1.4 | -2.9 4.7 | 8.5 2.4 | -2.5 -1.0 |
| Q4 | -5.1 | 9.9 | -6.0 | | 7.1 | 7.4 | -1.8 | 10.6 | | 6.9 | -5.0 | -2.3 |
| 2002 Q1 | -5.0 [†] | 44.2 | | t | 7.8 ⁷ | -8.8 ⁷ | -1.2 | t 10.9 ⁷ | [†] –7.0 [†] | [†] 7.5 [†] | -2.1 [†] | 2.0 |
| Q2 | -1.7 | 1.8 | | | 14.0 | 10.5 | 1.5 | 2.3 | | 15.4 | -4.2 | 10.6 |
| Q3 Q4 | -3.6 0.0 | 5.9 3.9 | 17.4 10.7 | | 16.3 24.9 | 20.9 6.6 | 2.1 4.8 | 3.7 6.9 | −6.8 −7.7 | 17.6 28.3 | 3.2 5.9 | 10.5 15.5 |
| 2003 Q1 | -1.3 | 19.5 | + | | 13.0 | 8.0 | 3.8 | 5.9 | -3.5 | 13.4 | 5.5 | 10.9 |
| Q2 | -2.5 | 30.1 | 3.6 | | 14.7 | -11.8 | 2.0 | -5.0 | -9.0 | 16.5 | 8.9 | 4.1 |
| Q3 | -1.0 | 26.2 | -13.8 | | 7.6 | -16.5 | 1.2 | -8.8 | -4.3 | 8.9 | 5.4 | 3.3 |

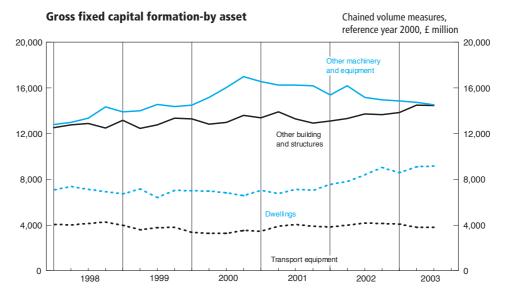
¹ Not including dwellings and costs associated with the transfer of ownership of non-produced assets.

2 Remaining investment by public non-financial corporations is included within business investment.

3 Including costs associated with transfer of ownership of non-produced assets.

Source: Office for National Statistics; Enquiries 020 7533 6010





9 Gross value added, chained volume indices at basic prices, by category of output^{1,3}

2000 = 100

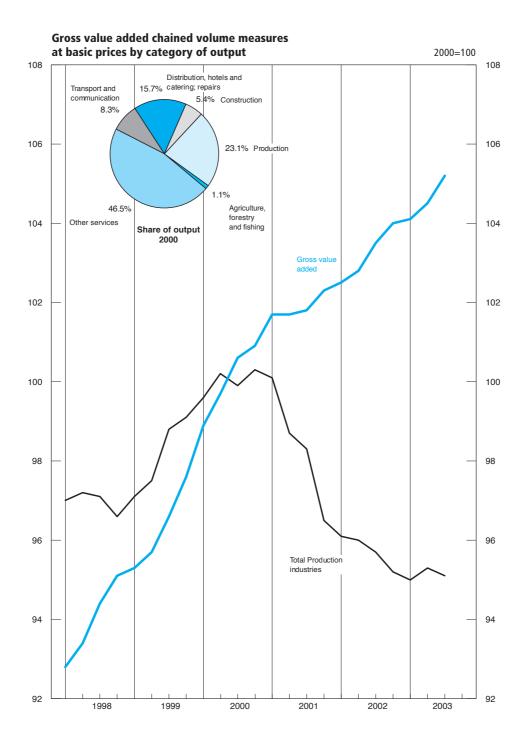
| | | | | | | | | | | | | | 2000 = 100 |
|--------------------------------------|--|--|---|--|---------------------------------------|---|--|---|---|---|---|---|---|
| | | | Product | ion | | | | Serv | ice industrie | s | | | |
| | Agric- ulture, forestry, and fishing | Mining and quarrying including oil and gas extraction | Manu- facturing | Elec- tricity gas and water supply | Total | Const- ruction | Distri- bution hotels and catering; repairs | Transport storage and comm- unication | Business services and finance | Govern- ment and other services | Total | Gross value added at basic prices | Gross value added excluding oil |
| 2000 Weights ² | 11 | 30 | 181 | 19 | 231 | 54 | 157 | 83 | 239 | 226 | 705 | 1000 | 973 |
| 1998 1999 2000 2001 2002 | GDQA 97.4 100.6 100.0 89.9 99.1 | CKYX 99.1 103.3 100.0 94.5 94.4 | CKYY 96.9 97.6 100.0 98.7 95.1 | 95.3 97.9 100.0 102.4 104.0 | 97.0 98.1 100.0 98.4 95.7 | GDQB 98.4 98.7 100.0 103.4 111.2 | 94.4 97.3 100.0 101.8 106.2 | GDQH 85.6 91.2 100.0 104.0 105.0 | GDQN 92.2 95.6 100.0 103.9 105.5 | GDQU 95.1 97.1 100.0 101.4 103.1 | GDQS 92.8 95.9 100.0 102.6 104.8 | CGCE 93.9 96.3 100.0 101.9 103.2 | JUNT 93.8 96.2 100.0 102.1 103.5 |
| Quarterly | | | | | | | | | | | | | |
| 1998 Q1 | 96.7 | 97.9 | 97.3 | 93.6 | 97.0 | 101.1 | 93.3 | 82.6 | 89.7 | 94.2 | 91.0 | 92.8 | 92.7 |
| Q2 | 98.7 | 98.9 | 97.2 | 95.2 | 97.2 | 97.6 | 93.6 | 84.5 | 91.0 | 94.8 | 92.0 | 93.4 | 93.3 |
| Q3 | 97.2 | 99.2 | 97.0 | 95.8 | 97.1 | 97.4 | 94.7 | 86.7 | 93.1 | 95.7 | 93.5 | 94.4 | 94.3 |
| Q4 | 96.8 | 100.4 | 96.2 | 96.6 | 96.6 | 97.5 | 96.0 | 88.7 | 95.1 | 95.8 | 94.7 | 95.1 | 95.0 |
| 1999 Q1 | 101.2 | 102.2 | 96.6 | 96.9 | 97.1 | 97.6 | 96.3 | 89.1 | 94.9 | 96.2 | 94.9 | 95.3 | 95.2 |
| Q2 | 100.2 | 103.3 | 96.9 | 97.1 | 97.5 | 98.0 | 96.8 | 90.5 | 95.0 | 96.7 | 95.4 | 95.7 | 95.6 |
| Q3 | 100.0 | 104.5 | 98.3 | 98.4 | 98.8 | 99.5 | 97.6 | 91.3 | 95.3 | 97.6 | 96.0 | 96.6 | 96.4 |
| Q4 | 101.1 | 103.0 | 98.7 | 99.1 | 99.1 | 99.8 | 98.3 | 93.9 | 97.3 | 98.0 | 97.3 | 97.6 | 97.5 |
| 2000 Q1 | 100.7 | 103.8 | 99.2 | 98.7 | 99.6 | 102.3 | 99.0 | 97.0 | 98.0 | 99.0 | 98.4 | 98.9 | 98.8 |
| Q2 | 100.1 | 102.4 | 99.8 | 101.0 | 100.2 | 100.0 | 99.6 | 99.2 | 99.2 | 99.8 | 99.5 | 99.7 | 99.6 |
| Q3 | 101.4 | 98.9 | 100.0 | 99.9 | 99.9 | 98.3 | 100.9 | 101.4 | 100.9 | 100.7 | 100.9 | 100.6 | 100.6 |
| Q4 | 97.8 | 94.9 | 100.9 | 100.3 | 100.3 | 99.4 | 100.5 | 102.4 | 101.9 | 100.5 | 101.2 | 100.9 | 101.0 |
| 2001 Q1 | 90.4 | 93.3 | 100.8 | 104.5 | 100.1 | 101.5 | 101.2 | 104.1 | 102.9 | 100.7 | 101.9 | 101.7 | 101.9 |
| Q2 | 88.7 | 96.3 | 98.7 | 102.8 | 98.7 | 102.8 | 101.4 | 104.6 | 103.5 | 101.0 | 102.4 | 101.7 | 101.9 |
| Q3 | 89.0 | 95.0 | 98.6 | 101.0 | 98.3 | 103.8 | 101.7 | 103.9 | 104.0 | 101.2 | 102.6 | 101.8 | 102.0 |
| Q4 | 91.4 | 93.4 | 96.6 | 101.2 | 96.5 | 105.7 | 103.2 | 103.6 | 105.2 | 102.4 | 103.7 | 102.3 | 102.5 |
| 2002 Q1 | 98.4 [†] | 94.2 [†] | 95.8 | 101.5 [†] | 96.1 [†] | 108.8 | 104.5 [†] | 104.3 [†] | 104.3 [†] | 102.7 | 103.8 [†] | 102.5 | 102.8 |
| Q2 | 98.7 | 99.1 | 94.6 | 104.6 | 96.0 | 110.0 | 105.6 | 103.9 | 104.8 | 102.8 [†] | 104.2 | 102.8 [†] | 102.9 |
| Q3 | 99.9 | 90.2 | 95.5 [†] | 106.2 | 95.7 | 112.0 | 106.9 | 105.3 | 106.2 | 103.1 | 105.3 | 103.5 | 104.0 |
| Q4 | 99.4 | 94.0 | 94.5 | 103.6 | 95.2 | 114.0 | 107.9 | 106.6 | 106.7 | 104.0 | 106.1 | 104.0 | 104.3 |
| 2003 Q1 | 97.4 | 93.1 | 94.6 | 101.7 | 95.0 | 112.4 | 107.8 | 106.0 | 107.7 | 104.8 | 106.6 | 104.1 | 104.4 |
| Q2 | 98.3 | 90.3 | 95.2 | 103.3 | 95.3 | 117.1 | 109.2 | 106.1 | 106.7 | 105.4 | 106.8 | 104.5 | 104.9 |
| Q3 | 98.2 | 88.0 | 95.4 | 104.3 | 95.1 | 119.5 | 110.2 | 106.5 | 108.2 | 106.1 | 107.8 | 105.2 | 105.7 |
| Percentage char | , | | | | • | | | | | | | | |
| 1998 Q1 | 3.2 | 0.3 | 1.1 | 3.9 | 1.3 | 5.0 | 4.9 | 5.4 | 6.2 | 1.9 | 4.4 | 3.5 | |
| Q2 | 4.2 | 2.2 | 1.2 | 2.5 | 1.5 | 0.4 | 3.8 | 8.5 | 6.3 | 2.3 | 4.8 | 3.5 | |
| Q3 | 1.9 | 1.3 | 0.5 | 2.6 | 0.8 | 0.3 | 3.8 | 9.2 | 7.3 | 3.2 | 5.4 | 3.7 | |
| Q4 | 2.0 | 4.4 | -0.3 | 3.9 | 0.5 | -1.2 | 3.3 | 8.4 | 6.7 | 3.1 | 5.0 | 3.4 | |
| 1999 Q1 | 4.7 | 4.4 | -0.7 | 3.5 | 0.1 | -3.5 | 3.2 | 7.9 | 5.8 | 2.1 | 4.3 | 2.7 | |
| Q2 | 1.5 | 4.4 | -0.3 | 2.0 | 0.3 | 0.4 | 3.4 | 7.1 | 4.4 | 2.0 | 3.7 | 2.5 | |
| Q3 | 2.9 | 5.3 | 1.3 | 2.7 | 1.8 | 2.2 | 3.1 | 5.3 | 2.4 | 2.0 | 2.7 | 2.3 | |
| Q4 | 4.4 | 2.6 | 2.6 | 2.6 | 2.6 | 2.4 | 2.4 | 5.9 | 2.3 | 2.3 | 2.7 | 2.6 | |
| 2000 Q1 | -0.5 | 1.6 | 2.7 | 1.9 | 2.6 | 4.8 | 2.8 | 8.9 | 3.3 | 2.9 | 3.7 | 3.8 | |
| Q2 | -0.1 | -0.9 | 3.0 | 4.0 | 2.8 | 2.0 | 2.9 | 9.6 | 4.4 | 3.2 | 4.3 | 4.2 | |
| Q3 | 1.4 | -5.4 | 1.7 | 1.5 | 1.1 | -1.2 | 3.4 | 11.1 | 5.9 | 3.2 | 5.1 | 4.1 | |
| Q4 | -3.3 | -7.9 | 2.2 | 1.2 | 1.2 | -0.4 | 2.2 | 9.1 | 4.7 | 2.6 | 4.0 | 3.4 | |
| 2001 Q1 | -10.2 | -10.1 | 1.6 | 5.9 | 0.5 | -0.8 | 2.2 | 7.3 | 5.0 | 1.7 | 3.6 | 2.8 | |
| Q2 | -11.4 | -6.0 | -1.1 | 1.8 | -1.5 | 2.8 | 1.8 | 5.4 | 4.3 | 1.2 | 2.9 | 2.0 | |
| Q3 | -12.2 | -3.9 | -1.4 | 1.1 | -1.6 | 5.6 | 0.8 | 2.5 | 3.1 | 0.5 | 1.7 | 1.2 | |
| Q4 | -6.5 | -1.6 | -4.3 | 0.9 | -3.8 | 6.3 | 2.7 | 1.2 | 3.2 | 1.9 | 2.5 | 1.4 | |
| 2002 Q1 Q2 Q3 Q4 | 8.8 [†] 11.3 12.2 8.8 | 1.0 [†] 2.9 –5.1 0.6 | -5.0 -4.2 -3.1 [†] -2.2 | -2.9 [†] 1.8 5.1 2.4 | -4.0 [†] -2.7 -2.6 -1.3 | 7.2 7.0 7.9 7.9 [†] | 3.3 [†] 4.1 5.1 4.6 | 0.2 [†] -0.7 1.3 2.9 | 1.4 [†] 1.3 2.1 1.4 | | | 0.8 1.1 [†] 1.7 1.7 | |
| 2003 Q1 | -1.0 | -1.2 | -1.3 | 0.2 | -1.1 | 3.3 | 3.2 | 1.6 | 3.3 | 2.0 | 2.7 | 1.6 | |
| Q2 | -0.4 | -8.9 | 0.6 | -1.2 | -0.7 | 6.5 | 3.4 | 2.1 | 1.8 | 2.5 | 2.5 | 1.7 | |
| Q3 | -1.7 | -2.4 | -0.1 | -1.8 | -0.6 | 6.7 | 3.1 | 1.1 | 1.9 | 2.9 | 2.4 | 1.6 | |

¹ Estimates cannot be regarded as accurate to the last digit shown.

Sources: Office for National Statistics; Enquiries Columns 1-11 020 7533 5969; Column 12 020 7533 6031

² Weights may not sum to the totals due to rounding. The weights shown are in proportion to total gross value added (GVA) in 2000, and are used to combine the industry output indices to calculate the totals for 2001 and 2002. For 2000 and earlier, totals are calculated using the equivalent weights for the previous year (e.g. totals for 2000 use 1999 weights).

³ Components of output are valued at basic prices, which excludes taxes and subsidies on production



Gross value added chained volume indices at basic prices, by category of output: **Service industries**

2000 = 100

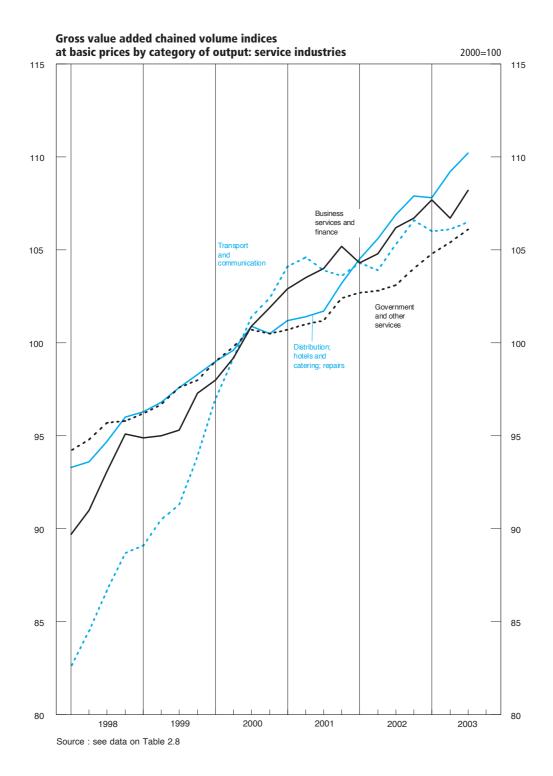
| | | Distribution hotels and catering; repairs Motor trades: | | | Business | services an | d finance | Go | overnment ar | nd other se | rvices | | 2000 = 10 |
|--|---|--|----------------------------------|---|---|---|----------------------------------|---|--|---|---|---|---|
| | trades; wholesale and retail | Hotels and restaurants | | Post and telecommu- nication | Financial intermediation ³ | Real estate, renting and business activities | Lettings of dwellings | PAD ¹ | | Health and social work | Other services ² | Adjustment for financial services ⁴ | Total services |
| 2000 weights | 123 | 33 | 51 | 32 | 55 | 154 | 75 | 56 | 57 | 62 | 51 | -45 | 705 |
| Annual | | | | | | | | | | | | | |
| 1999 2000 2001 2002 | GDQC 96.9 100.0 102.3 107.1 | GDQD 98.7 100.0 100.2 102.9 | | GDQG 87.1 100.0 107.9 108.0 | GDQI 95.0 100.0 105.2 104.8 | GDQK 92.9 100.0 104.5 107.6 | 100.6 100.0 102.3 | GDQO 97.7 100.0 100.5 102.3 | GDQP 98.4 100.0 99.5 99.7 | GDQQ 96.1 100.0 103.3 107.7 | | GDQJ 92.9 100.0 104.8 108.9 | GDQS 95.9 100.0 102.6 104.8 |
| Quarterly | | | | | | | | | | | | | |
| 1999 Q1 Q2 Q3 Q4 | 96.2 96.5 97.2 97.8 | 96.9 98.2 99.3 100.2 | 93.3 | 82.4 86.4 88.1 91.4 | 93.1 95.4 94.4 97.0 | 92.0 91.4 92.7 95.4 | 101.0 101.5 100.6 99.2 | 97.1 97.5 98.1 98.0 | 97.3 98.3 99.4 98.6 | 95.8 95.4 96.1 97.1 | 94.6 95.6 96.9 98.2 | 91.8 93.3 93.6 93.1 | 94.9 95.4 96.0 97.3 |
| 2000 Q1 Q2 Q3 Q4 | 98.3 99.6 101.0 101.1 | 101.6 99.6 100.3 98.5 | 101.6 | 95.1 97.6 101.2 106.1 | 98.7 99.8 100.3 101.2 | 96.8 99.4 101.4 102.4 | 99.2 98.8 100.2 101.8 | 99.3 99.9 100.5 100.4 | 99.3 100.2 100.6 100.0 | 98.2 99.5 101.1 101.2 | 99.2 99.5 100.7 100.5 | 96.3 100.2 100.5 103.0 | 98.4 99.5 100.9 101.2 |
| 2001 Q1 Q2 Q3 Q4 | 101.5 101.7 102.0 104.0 | 99.8 100.0 100.5 100.4 | 101.2 101.7 101.8 101.7 | 108.5 109.0 107.4 106.5 | 104.1 104.3 105.1 107.3 | 103.6 103.9 104.5 105.7 | 101.8 102.1 102.5 103.0 | 100.1 100.2 100.4 101.2 | 99.7 99.1 99.2 100.1 | 101.7 102.8 103.4 105.2 | 101.3 101.9 101.8 103.1 | 105.3 103.5 104.7 105.8 | 101.9 102.4 102.6 103.7 |
| 2002 Q1 Q2 Q3 Q4 | 105.5 [†] 106.5 107.8 108.6 | 101.1 101.9 103.6 105.2 | 102.5 103.4 | 106.8 [†] 106.2 108.3 110.7 | 103.0 [†] 103.2 105.2 107.9 | 105.2 [†] 106.9 108.7 109.4 | 103.4 103.3 103.9 104.2 | 101.6 102.0 102.3 103.4 | † 99.8 [†] 99.6 99.5 100.0 | 105.5 107.3 108.2 109.7 | † 103.8 ³ 101.6 101.8 102.0 | 104.6 [†] 108.0 109.7 113.4 | 103.8 [†] 104.2 105.3 106.1 |
| 2003 Q1 Q2 Q3 | 108.2 109.5 110.9 | 106.0 107.8 107.6 | 102.4 101.7 102.6 | 111.8 112.9 112.6 | 106.4 107.7 110.1 | 111.9 111.4 113.7 | 104.4 104.7 105.1 | 103.7 104.3 104.9 | 100.6 100.9 101.1 | 112.2 112.6 114.2 | 101.6 102.9 103.3 | 115.1 120.6 124.1 | 106.6 106.8 107.8 |
| Percentage ch | nange, quart | er on corres | sponding qu | arter of previ | ous year | | | | | | | | |
| Quarterly 1999 Q1 Q2 Q3 Q4 | 3.6 3.2 2.4 2.0 | 4.2 | 0.6 -1.0 | 17.5 18.5 16.4 14.7 | 1.7 4.0 1.6 6.4 | 7.6 4.3 2.2 1.8 | 5.4 4.9 2.4 -0.9 | 0.2 -0.2 -0.2 0.4 | 4.1 4.0 | 2.1 1.8 2.0 3.3 | 2.0 | 4.1 0.3 | 4.3 3.7 2.7 2.7 |
| 2000 Q1 Q2 Q3 Q4 | 2.2 3.2 3.9 3.4 | | 7.6 8.9 | 15.4 13.0 14.9 16.1 | 6.0 4.6 6.3 4.3 | 5.2 8.8 9.4 7.3 | -1.8 -2.7 -0.4 2.6 | 2.3 2.5 2.4 2.4 | 1.9 1.2 | 2.5 4.3 5.2 4.2 | 4.1 | 7.4 7.4 | 3.7 4.3 5.1 4.0 |
| 2001 Q1 Q2 Q3 Q4 | 3.3 2.1 1.0 2.9 | 0.4 0.2 | 1.5 0.2 | 14.1 11.7 6.1 0.4 | 5.5 4.5 4.8 6.0 | 7.0 4.5 3.1 3.2 | 2.6 3.3 2.3 1.2 | 0.3 | −1.1 −1.4 | 3.6 3.3 2.3 4.0 | 2.4 1.1 | 3.3 4.2 | 3.6 2.9 1.7 2.5 |
| 2002 Q1 Q2 Q3 Q4 | 3.9 ⁷ 4.7 5.7 4.4 | 1.9 3.1 | 0.8 1.6 | -1.6 [†] -2.6 0.8 3.9 | -1.1 [†] -1.1 0.1 0.6 | 1.5 ⁷ 2.9 4.0 3.5 | 1.6 1.2 1.4 1.2 | 1.8 1.9 | 0.5 0.3 | 3.7 4.4 4.6 4.3 | -0.3 0.0 | 4.3 4.8 | 1.9 [†] 1.8 2.6 2.3 |
| 2003 Q1 Q2 Q3 | 2.6 2.8 2.9 | 5.8 | -0.8 | 4.7 6.3 4.0 | 3.3 4.4 4.7 | 6.4 4.2 4.6 | 1.0 1.4 1.2 | | 1.3 | 6.4 4.9 5.5 | 1.3 | 11.7 | 2.7 2.5 2.4 |

Public administration and national defence; compulsory social security.
 Comprising sections O, and P of the SIC(92).
 Comprises section J of the SIC(92). This covers activities of institutions such as banks, building societies, securities dealers, insurance companies and pension funds. It also covers institutions whose activities are closely related to financial intermediation: for example fund managers and insurance

⁴ The weight and proxy series for financial intermediation are calculated before the deduction of interest receipts and payments to provide a better indication of the underlying activity for this section (see note 3). However, this overstates the contribution to GDP because interest flows should be treated as transfer payments rather than final consumption. The financial services adjustment, which has a negative weight, corrects for this.

5 See footnote 2 on Table 2.8

Source: Office for National Statistics; Enquiries 020 7533 5969



General Government

2.10 Summary capital accounts and net lending/net borrowing

Non-financial corporations

£ million

Net

| | | Capital transfers | Gross | acquis | ition of | Capital transfers | Gross | acqui | sition of | | Capital transfers | Gross | acquisition of |
|--|--|---|---|---|--|--------------------------------------|----------------------------------|--|-------------------------------------|---|--|---|---|
| | Gross saving ¹ | (net receipts) | capita | I non-fina | anc- Gro | ss (net | | l non-fir | nanc- | Gross aving ¹ | (net receipts) | capital formation ² | non-financ- ial assets |
| Annual 1999 2000 2001 2002 | RPJV 89 423 95 286 90 384 105 840 [†] | GZQW 2 415 1 638 3 304 3 280 | RQB2 99 91; 101 76(101 93; | Z RC 3 1 5 1 | QAX RPF 051 -8 8 856 -16 3 139 -15 0 431 8 5 | PS GZQE 63 [†] – 66 – | RPYP 8 073 10 739 7 255 | P R | PYO -37 2 -37 2 | RPQC 23 013 26 728 23 652 1 788 | GZQU -4 014 -2 204 -4 791 -5 018 | RPZF 9 867 10 284 11 659 13 133 [†] | RPZE -888 -776 -915 -1 087 |
| Quarterly | | | | | | | | | | | | | |
| 1999 Q1 Q2 Q3 Q4 | 26 492 [†] 18 715 20 956 23 260 | 685 483 676 571 | 25 503 23 343 25 693 25 375 | 3 | 284 –5 6 299 –7 233 9 235 –3 3 | 94 – 32 – | 2 265 | } ; | -2 -8 -13 -14 | 4 253 [†] 4 554 6 667 7 539 | -1 312 -708 -1 005 -989 | 2 675 2 546 2 368 2 278 | -256 -224 -202 -206 |
| 2000 Q1 Q2 Q3 Q4 | 22 912 24 145 23 686 24 543 | 588 324 359 367 | 25 320 24 670 25 644 26 120 | 3 1 | 208 2° 185 –4 6° 185 –4 0° 278 –7 9° | 71 – | | ;) | -16 -13 -7 -1 | 7 258 7 534 6 510 5 426 | -922 -139 -575 -568 | 2 161 2 554 2 563 3 006 | -185 -189 -196 -206 |
| 2001 Q1 Q2 Q3 Q4 | 23 178 22 843 21 791 22 572 | 599 627 719 1 359 | 26 31 26 810 25 15 23 64 |)) | 253 | 31 – 35 – | 2 342 2 232 1 240 1 441 | !) | 5 8 8 4 | 7 611 6 442 6 760 2 839 | -776 -1 276 -1 142 -1 597 | 2 251 2 969 3 112 3 327 | -218 -220 -236 -241 |
| 2002 Q1 Q2 Q3 Q4 | 23 185 24 370 27 452 30 833 | 752 [†] 635 814 1 079 | 24 50 23 32 23 81 25 470 | <u>2</u> 7 | 369 [†] 1 90 330 14 361 2 30 371 4 10 | 40 – 36 – | 954 1 252 3 055 1 831 | <u>.</u> | -3 -9 -12 -12 | 1 353 928 1 442 -1 935 | -1 270 [†] -972 -1 348 -1 428 | 3 421 [†] 3 079 3 280 3 353 | -282 [†] -234 -238 -333 |
| 2003 Q1 Q2 Q3 | 29 764 27 813 28 003 | 1 342 1 630 956 | 24 41; 24 76; 24 79 | 5 | 362 5 16 406 2 5 455 1 4 | 17 – | 2 112 917 1 035 | • | -3 - | -1 794 -1 984 -1 707 | -2 319 -2 090 -1 454 | 3 895 4 092 4 371 | –198 –250 –252 |
| | | Н | ouseholds & | NPISH | | | | Net | lending(+ | -)/net bo | orrowing(-) ³ | | |
| | Gross s | | Capital ansfers (net eceipts) f | Gross capital ormation ² | acquisitio | of al Non-finaı | | nancial rations | Gene governm | | louseholds & NPISH | Rest of the world ⁴ | Statistical Discrepancy |
| Annual 1999 2000 2001 2002 | 3 | RPQL 32 947 36 732 47 611 39 788 [†] | GZQI 2 383 2 300 3 295 3 200 [†] | RPZV 38 740 39 249 43 755 49 783 [†] | RPZ -13 -6 -15 -17 | 38 –13 37 –10 52 –15 | 492 – 375 – 3 | RPYN 16 899 [†] 27 058 22 348 1 540 | RP. 10 0 15 0 8 1 –15 2 |)20)16 17 | RPZT -3 272 -150 7 303 -6 619 [†] | RQCH 23 643 [†] 22 567 22 092 16 941 | RVFE - - -2 046 [†] |
| Quarterly | | | | | | | | | | | | | |
| 1999 Q1 Q2 Q3 Q4 | 1 | 6 387 [†] 11 297 7 133 8 130 | 604 499 575 705 | 9 920 9 112 9 343 10 365 | -2 -3 -4 -3 | 36 –5 40 –5 | 440 414 | -6 751 [†] -3 399 -1 270 -5 479 | 1 5 3 4 | 522 [†] 524 196 178 | -2 902 [†] 2 720 -1 595 -1 495 | 8 955 [†] 4 595 4 783 5 310 | -3 998 -138 1 348 2 788 |
| 2000 Q1 Q2 Q3 Q4 | | 6 585 7 540 10 312 12 295 | 553 473 616 658 | 10 410 9 842 9 585 9 412 | | 6 -1 2 -2 | 574 982 | -1 860 -7 034 -7 234 10 930 | 3 5 | 360 330 568 058 | -3 248 -1 813 1 355 3 556 | 3 837 5 391 5 293 8 046 | -1 988 -2 588 1 811 2 765 |
| 2001 Q1 Q2 Q3 Q4 | 1 | 13 112 10 702 10 743 13 054 | 331 1 363 891 710 | 10 556 10 502 11 937 10 760 | -2 -3 -4 -4 | 36 –5 14 –4 | 160 - 264 - | -7 914 -4 671 -3 933 -5 830 | 2 4 | 802 117 742 844 | 2 912 1 599 -259 3 051 | 4 533 5 815 5 714 6 030 | -6 553 -1 517 2 830 5 240 |

-2 046

2 788

5 401

2 385

21

-45

-43

-46

-55

1 017

-657

3 082

448

-1103

Financial corporations

9 561 10 715

10 355

9 898

10 035 11 359 682[†]

646

948

1 230

1 147

11 834[†]

12 686

11 929

13 068

14 052

-3 056 -2 889

-2 948

-7 810

-7280

5 862

5 645

1 992

2 573

7 663

-6 218[†] -4 246

6 874

-2 484

1 729

less changes in inventories.

4 Equals, the current balance of payments accounts, plus capital transfers.

Sources: Office for National Statistics;

Enquiries Part 1 (Upper) Columns 1,3-5,7-9,11,12 020 7533 6031;

Columns 2,6,10 020 7533 5985;

-1 544 -1 280

-1 894

-1491

-583

Part2 (Lower) Columns 1, 3-10 020 7533 6031; Column 2 020 7533 5985

2002 Q1

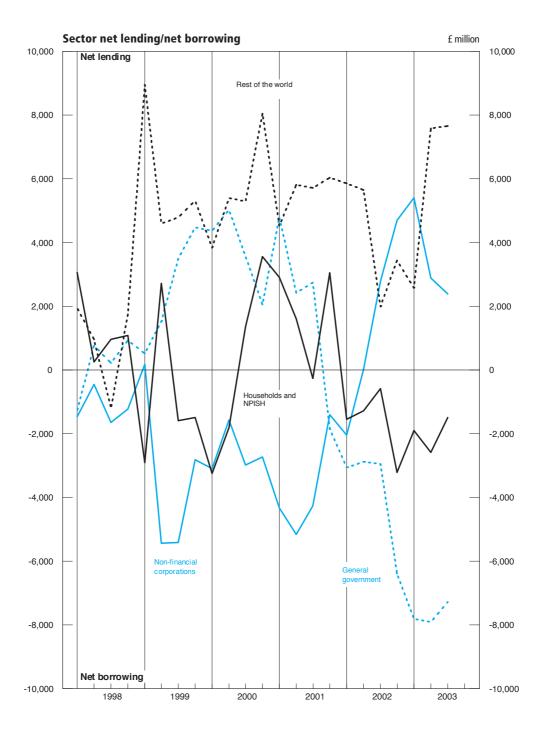
2003 Q1

Ω2 Q3

¹ Before providing for depreciation, inventory holding gains.

² Comprises gross fixed capital formation and changes in inventories and acquisitions less disposals of valuables.

³ This balance is equal to gross saving *plus* capital transfers less gross fixed capital formation, *less* Net acquisition of non-financial assets, less changes in inventories.



Private Non-Financial Corporations : Allocation of Primary Income Account

£ million

| | | | | Resources | s | | | | Us | es | | |
|--------------------------------------|---|---|---|---|---|--|---|--|--|--|--|--|
| | | Gross | operating s | | | | | Propert | y income pay | | | |
| | Gross tradir | | , | less | | | | | , | | Gross | Share of |
| | Continental shelf companies | Others ¹ | Rental of buildings | Inventory holding gains | Gross operating surplus+1 | Property income receipts | Total resources ^{1,2} | Total payments | of which Dividends | of which Interest | balance of primary incomes ¹ | gross national income ¹ (%) |
| Annual | | | | | | | | | | | | |
| 1993 1994 1995 1996 1997 | CAGD 9 375 10 776 12 124 15 702 13 978 | CAED 100 167 117 450 125 151 133 508 145 693 | FCBW 9 132 8 641 9 379 9 493 9 561 | -DLRA -2 392 -3 830 -4 489 -958 -361 | CAER 116 282 133 037 142 165 157 745 168 871 | RPBM 29 773 36 090 42 948 45 695 47 954 | RPBN 146 055 169 127 185 113 203 440 216 825 | RPBP 72 847 80 872 95 631 101 125 107 623 | RVFT 32 250 36 365 46 218 51 609 56 253 | ROCG 21 755 21 057 24 098 23 490 25 822 | RPBO 73 208 88 255 89 482 102 315 109 202 | NRJL 11.4 12.9 12.5 13.4 13.4 |
| 1998 | 11 696 | 150 975 | 10 837 | 753 | 174 261 | 49 713 | 223 974 | 107 266 | 51 578 | 30 659 | 116 708 | 13.4 |
| 1999 | 13 864 | 153 954 | 11 435 | -1 801 | 177 452 | 48 118 | 225 570 | 115 547 | 61 104 | 30 673 | 110 023 | 12.3 [†] |
| 2000 | 21 333 | 153 142 | 12 271 | -2 941 | 183 805 | 60 554 | 244 359 | 125 694 | 55 846 | 37 355 | 118 665 | 12.5 |
| 2001 | 19 822 | 153 445 | 12 999 | -1 555 | 184 711 | 73 575 | 258 286 | 145 661 | 75 867 | 39 578 | 112 625 | 11.3 |
| 2002 | 18 742 | 160 241 | 13 318 [†] | -3 114 | 189 187 | 67 347 [†] | 256 534 | 129 498 [†] | 62 606 [†] | 36 210 [†] | 127 036 | 11.9 |
| Quarterly | | | | | | | | | | | | |
| 1993 Q1 | 2 171 | 25 292 | 2 259 | -974 | 28 748 | 7 297 | 36 045 | 17 848 | 7 439 | 5 758 | 18 197 | 11.7 |
| Q2 | 2 116 | 23 632 | 2 300 | -359 | 27 689 | 7 190 | 34 879 | 18 617 | 9 185 | 5 385 | 16 262 | 10.3 |
| Q3 | 2 456 | 25 593 | 2 305 | -561 | 29 793 | 7 086 | 36 879 | 17 820 | 7 431 | 5 388 | 19 059 | 11.8 |
| Q4 | 2 632 | 25 650 | 2 268 | -498 | 30 052 | 8 200 | 38 252 | 18 562 | 8 195 | 5 224 | 19 690 | 12.0 |
| 1994 Q1 | 2 292 | 27 870 | 2 201 | -443 | 31 920 | 9 245 | 41 165 | 19 053 | 8 537 | 5 276 | 22 112 | 13.2 |
| Q2 | 3 050 | 29 556 | 2 148 | -919 | 33 835 | 8 772 | 42 607 | 20 021 | 8 228 | 5 302 | 22 586 | 13.4 |
| Q3 | 2 701 | 29 269 | 2 132 | -1 109 | 32 993 | 8 423 | 41 416 | 21 013 | 9 459 | 5 163 | 20 403 | 11.9 |
| Q4 | 2 733 | 30 755 | 2 160 | -1 359 | 34 289 | 9 650 | 43 939 | 20 785 | 10 141 | 5 316 | 23 154 | 13.2 |
| 1995 Q1 | 2 966 | 31 234 | 2 264 | -1 738 | 34 726 | 9 371 | 44 097 | 22 405 | 9 966 | 5 663 | 21 692 | 12.3 |
| Q2 | 3 113 | 30 812 | 2 336 | -1 588 | 34 673 | 9 963 | 44 636 | 22 201 | 9 264 | 6 057 | 22 435 | 12.7 |
| Q3 | 2 934 | 31 531 | 2 379 | -1 181 | 35 663 | 11 011 | 46 674 | 25 045 | 12 656 | 6 062 | 21 629 | 12.0 |
| Q4 | 3 111 | 31 574 | 2 400 | 18 | 37 103 | 12 603 | 49 706 | 25 980 | 14 332 | 6 316 | 23 726 | 12.9 |
| 1996 Q1 | 3 523 | 32 645 | 2 386 | -800 | 37 754 | 11 196 | 48 950 | 25 790 | 13 234 | 5 952 | 23 160 | 12.4 |
| Q2 | 3 929 | 33 047 | 2 366 | -102 | 39 240 | 12 391 | 51 631 | 23 978 | 12 135 | 5 759 | 27 653 | 14.5 |
| Q3 | 4 081 | 33 895 | 2 362 | -208 | 40 130 | 10 633 | 50 763 | 25 201 | 12 624 | 5 881 | 25 562 | 13.3 |
| Q4 | 4 169 | 33 921 | 2 379 | 152 | 40 621 | 11 475 | 52 096 | 26 156 | 13 616 | 5 898 | 25 940 | 13.4 |
| 1997 Q1 | 3 885 | 36 710 | 2 337 | -23 | 42 909 | 10 999 | 53 908 | 24 839 | 12 414 | 5 966 | 29 069 | 14.7 |
| Q2 | 3 288 | 36 897 | 2 381 | 239 | 42 805 | 11 864 | 54 669 | 27 598 | 15 386 | 6 396 | 27 071 | 13.3 |
| Q3 | 3 448 | 36 127 | 2 414 | -506 | 41 483 | 14 105 | 55 588 | 27 741 | 15 588 | 6 497 | 27 847 | 13.6 |
| Q4 | 3 357 | 35 959 | 2 429 | -71 | 41 674 | 10 986 | 52 660 | 27 445 | 12 865 | 6 963 | 25 215 | 12.2 |
| 1998 Q1 | 3 160 | 36 913 | 2 629 | 107 | 42 809 | 13 933 | 56 742 | 29 295 | 15 180 | 7 405 | 27 447 | 13.1 |
| Q2 | 3 103 | 36 759 | 2 670 | 53 | 42 585 | 11 731 | 54 316 | 25 942 | 11 931 | 7 517 | 28 374 | 13.2 |
| Q3 | 2 779 | 39 114 | 2 727 | 315 | 44 935 | 11 776 | 56 711 | 26 104 | 11 712 | 7 916 | 30 607 | 13.8 |
| Q4 | 2 654 | 38 189 | 2 811 | 278 | 43 932 | 12 273 | 56 205 | 25 925 | 12 755 | 7 821 | 30 280 | 13.6 |
| 1999 Q1 | 2 519 | 37 823 | 2 819 | -302 | 42 859 | 8 254 [†] | 51 113 [†] | 19 597 [†] | 8 789 [†] | 7 482 [†] | 31 516 [†] | 14.5 [†] |
| Q2 | 3 293 | 39 464 | 2 832 | -440 | 45 149 | 13 940 | 59 089 | 36 119 | 23 269 | 7 317 | 22 970 | 10.3 |
| Q3 | 4 056 | 37 706 | 2 865 | -645 | 43 982 | 11 367 | 55 349 | 29 019 | 14 358 | 7 712 | 26 330 | 11.6 |
| Q4 | 3 996 | 38 961 | 2 919 | -414 | 45 462 | 14 557 | 60 019 | 30 812 | 14 688 | 8 162 | 29 207 | 12.7 |
| 2000 Q1 | 4 695 | 39 079 | 2 914 | -702 | 45 986 | 14 657 | 60 643 | 31 477 | 15 037 | 8 701 | 29 166 | 12.4 |
| Q2 | 5 252 | 38 226 | 3 015 | -830 | 45 663 | 13 987 | 59 650 | 29 757 | 12 305 | 9 297 | 29 893 | 12.7 |
| Q3 | 5 580 | 37 789 | 3 135 | -799 | 45 705 | 15 262 | 60 967 | 31 208 | 12 857 | 9 494 | 29 759 | 12.4 |
| Q4 | 5 806 | 38 048 | 3 207 | -610 | 46 451 | 16 648 | 63 099 | 33 252 | 15 647 | 9 863 | 29 847 | 12.4 |
| 2001 Q1 | 5 446 | 38 175 | 3 234 | -1 070 | 45 785 | 19 062 | 64 847 | 36 104 | 16 558 | 10 277 | 28 743 | 11.6 |
| Q2 | 5 407 | 38 252 | 3 250 | -486 | 46 423 | 17 992 | 64 415 | 35 681 | 18 170 | 10 037 | 28 734 | 11.5 |
| Q3 | 4 816 | 38 277 | 3 261 | -97 | 46 257 | 21 374 | 67 631 | 40 629 | 23 666 | 10 078 | 27 002 | 10.8 |
| Q4 | 4 153 | 38 741 | 3 254 | 98 | 46 246 | 15 147 | 61 393 | 33 247 | 17 473 | 9 186 | 28 146 | 11.1 |
| 2002 Q1 | 4 298 [†] | 39 150 [†] | 3 275 [†] | -669 | 46 054 [†] | 18 402 | 64 456 | 36 377 | 19 536 | 9 084 | 28 079 | 10.8 |
| Q2 | 4 663 | 39 811 | 3 301 | -713 | 47 062 | 15 821 | 62 883 | 32 829 | 15 954 | 9 033 | 30 054 | 11.5 |
| Q3 | 4 635 | 40 349 | 3 348 | -800 | 47 532 | 16 386 | 63 918 | 31 032 | 14 949 | 8 991 | 32 886 | 12.2 |
| Q4 | 5 146 | 40 931 | 3 394 | -932 | 48 539 | 16 738 | 65 277 | 29 260 | 12 167 | 9 102 | 36 017 | 13.2 |
| 2003 Q1 | 5 237 | 41 744 | 3 446 | -581 | 49 846 | 18 368 | 68 214 | 33 308 | 16 904 | 9 024 | 34 906 | 12.6 |
| Q2 | 4 100 | 42 555 | 3 474 | 292 | 50 421 | 16 237 | 66 658 | 34 002 | 17 279 | 9 164 | 32 656 | 11.8 |
| Q3 | 4 646 | 43 205 | 3 483 | 249 | 51 583 | 18 130 | 69 713 | 36 420 | 19 173 | 9 161 | 33 293 | 11.9 |

¹ Quarterly alignment adjustment included in this series. 2 Total resources equals total uses.



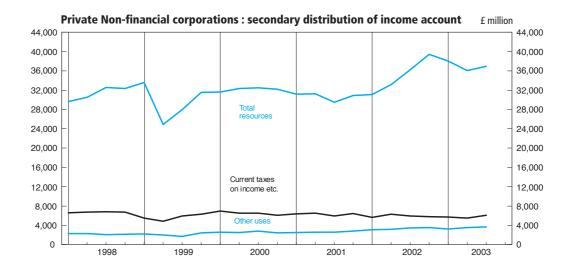
Private Non-financial Corporations : Secondary Distribution of Income Account and Capital Account

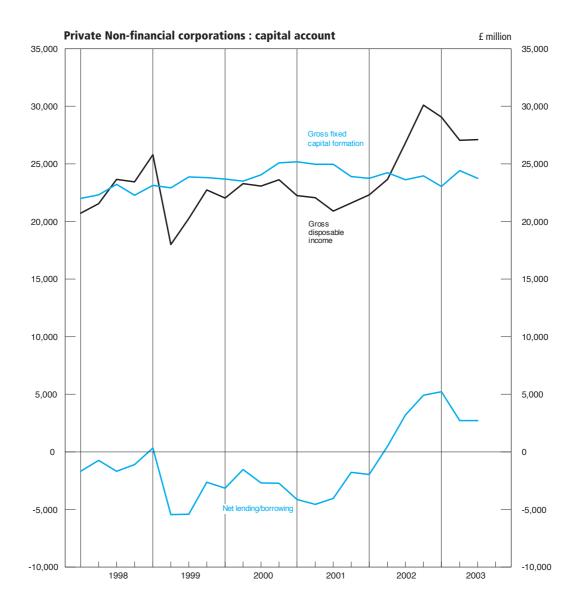
£ million

| | | Secondary D | Distribution | of Income A | ccount | | | | Cap | oital Account | | |
|--------------------------------------|--|---|--|--|---|--|---|--|--|---|---|---|
| | | Resources | | | Uses | | Chanç liabil & net | ities | | Changes | in assets | |
| | Gross balance of primary incomes ¹ | Other resources ² | Total ^{1,3} | Taxes on income | Other uses 4 | Gross disposable income ^{1,5} | Net capital transfer receipts | Total ¹ | Gross fixed capital formation | Changes in inventories ¹ | Other changes in assets ⁶ | Net lending (+) or borrowing (-) 1,7 |
| Annual | | | | | | | | | | | | |
| 1993 1994 1995 1996 1997 | RPBO 73 208 88 255 89 482 102 315 109 202 | NROQ 8 749 6 553 7 704 8 420 7 097 | RPKY 81 957 94 808 97 186 110 735 116 299 | RPLA 13 150 15 085 18 953 23 080 28 558 | NROO 9 056 6 917 8 104 9 938 7 576 | RPKZ 59 751 72 806 70 129 77 717 80 165 | NROP 224 409 433 428 671 | RPXH 59 975 73 215 70 562 78 145 80 836 | ROAW 54 931 55 867 64 444 72 854 81 317 | DLQY 238 3 904 4 542 1 672 3 949 | NRON 521 530 388 263 401 | RQBV 4 285 12 914 1 188 3 356 -4 831 |
| 1998 | 116 708 | 8 390 | 125 098 | 26 877 | 8 834 | 89 387 | 1 081 | 90 468 | 89 848 | 4 533 | 1 287 | -5 200 |
| 1999 | 110 023 | 7 875 | 117 898 | 22 608 | 8 444 | 86 846 | 958 | 87 804 | 93 756 | 6 174 | 1 036 | -13 162 |
| 2000 | 118 665 | 9 990 | 128 655 | 26 188 | 10 403 | 92 064 | 405 | 92 469 | 96 329 | 5 512 | 768 | -10 140 |
| 2001 | 112 625 | 10 218 | 122 843 | 25 367 | 10 629 | 86 847 | 1 633 | 88 480 | 99 045 | 2 890 | 1 069 | -14 524 |
| 2002 | 127 036 | 12 866 [†] | 139 902 [†] | 23 697 [†] | 13 288 [†] | 102 917 [†] | 2 095 [†] | 105 012 [†] | 95 594 [†] | 1 559 | 1 212 [†] | 6 647 [†] |
| Quarterly | | | | | | | | | | | | |
| 1993 Q1 | 18 197 | 2 300 | 20 497 | 3 577 | 2 376 | 14 544 | 71 | 14 615 | 13 622 | –308 | 118 | 1 183 |
| Q2 | 16 262 | 2 203 | 18 465 | 3 159 | 2 280 | 13 026 | 82 | 13 108 | 13 481 | 76 | 134 | -583 |
| Q3 | 19 059 | 2 102 | 21 161 | 3 366 | 2 179 | 15 616 | 74 | 15 690 | 13 510 | 388 | 139 | 1 653 |
| Q4 | 19 690 | 2 144 | 21 834 | 3 048 | 2 221 | 16 565 | –3 | 16 562 | 14 318 | 82 | 130 | 2 032 |
| 1994 Q1 | 22 112 | 1 673 | 23 785 | 3 206 | 1 759 | 18 820 | 82 | 18 902 | 13 699 | 160 | 136 | 4 907 |
| Q2 | 22 586 | 1 686 | 24 272 | 3 887 | 1 778 | 18 607 | 96 | 18 703 | 13 120 | 2 024 | 119 | 3 440 |
| Q3 | 20 403 | 1 498 | 21 901 | 4 076 | 1 591 | 16 234 | 120 | 16 354 | 14 130 | 193 | 124 | 1 907 |
| Q4 | 23 154 | 1 696 | 24 850 | 3 916 | 1 789 | 19 145 | 111 | 19 256 | 14 918 | 1 527 | 151 | 2 660 |
| 1995 Q1 | 21 692 | 1 825 | 23 517 | 4 252 | 1 922 | 17 343 | 127 | 17 470 | 14 794 | -496 | 121 | 3 051 |
| Q2 | 22 435 | 1 936 | 24 371 | 5 420 | 2 032 | 16 919 | 98 | 17 017 | 16 117 | 2 111 | 125 | -1 336 |
| Q3 | 21 629 | 1 953 | 23 582 | 4 368 | 2 049 | 17 165 | 102 | 17 267 | 16 460 | 1 714 | 87 | -994 |
| Q4 | 23 726 | 1 990 | 25 716 | 4 913 | 2 101 | 18 702 | 106 | 18 808 | 17 073 | 1 213 | 55 | 467 |
| 1996 Q1 | 23 160 | 2 238 | 25 398 | 5 419 | 3 336 | 16 643 | 125 | 16 768 | 17 261 | 1 095 | 63 | -1 651 |
| Q2 | 27 653 | 2 219 | 29 872 | 5 148 | 2 369 | 22 355 | 102 | 22 457 | 17 599 | 837 | 71 | 3 950 |
| Q3 | 25 562 | 1 994 | 27 556 | 6 334 | 2 124 | 19 098 | 96 | 19 194 | 18 566 | 127 | 57 | 444 |
| Q4 | 25 940 | 1 969 | 27 909 | 6 179 | 2 109 | 19 621 | 105 | 19 726 | 19 428 | –387 | 72 | 613 |
| 1997 Q1 | 29 069 | 1 771 | 30 840 | 6 642 | 1 888 | 22 310 | 233 | 22 543 | 19 359 | 1 357 | 64 | 1 763 |
| Q2 | 27 071 | 1 757 | 28 828 | 7 363 | 1 901 | 19 564 | 164 | 19 728 | 20 439 | 1 046 | 94 | -1 851 |
| Q3 | 27 847 | 1 739 | 29 586 | 7 240 | 1 848 | 20 498 | 131 | 20 629 | 20 133 | 952 | 103 | -559 |
| Q4 | 25 215 | 1 830 | 27 045 | 7 313 | 1 939 | 17 793 | 143 | 17 936 | 21 386 | 594 | 140 | -4 184 |
| 1998 Q1 | 27 447 | 2 225 | 29 672 | 6 607 | 2 336 | 20 729 | 343 | 21 072 | 22 016 | 468 | 256 | -1 668 |
| Q2 | 28 374 | 2 166 | 30 540 | 6 715 | 2 277 | 21 548 | 220 | 21 768 | 22 319 | -187 | 380 | -744 |
| Q3 | 30 607 | 1 959 | 32 566 | 6 847 | 2 070 | 23 649 | 248 | 23 897 | 23 218 | 1 985 | 379 | -1 685 |
| Q4 | 30 280 | 2 040 | 32 320 | 6 708 | 2 151 | 23 461 | 270 | 23 731 | 22 295 | 2 267 | 272 | -1 103 |
| 1999 Q1 | 31 516 [†] | 2 037 | 33 553 [†] | 5 484 | 2 264 | 25 805 [†] | 344 | 26 149 [†] | 23 139 | 2 370 | 301 | 339 [†] |
| Q2 | 22 970 | 1 925 | 24 895 | 4 846 | 2 038 | 18 011 | 199 | 18 210 | 22 928 | 403 | 314 | -5 435 |
| Q3 | 26 330 | 1 608 | 27 938 | 5 938 | 1 722 | 20 278 | 216 | 20 494 | 23 882 | 1 842 | 191 | -5 421 |
| Q4 | 29 207 | 2 305 | 31 512 | 6 340 | 2 420 | 22 752 | 199 | 22 951 | 23 807 | 1 559 | 230 | -2 645 |
| 2000 Q1 | 29 166 | 2 472 | 31 638 | 6 998 | 2 589 | 22 051 | 315 | 22 366 | 23 685 | 1 646 | 193 | -3 158 |
| Q2 | 29 893 | 2 429 | 32 322 | 6 508 | 2 526 | 23 288 | 20 | 23 308 | 23 494 | 1 202 | 158 | -1 546 |
| Q3 | 29 759 | 2 735 | 32 494 | 6 572 | 2 834 | 23 088 | 34 | 23 122 | 24 044 | 1 629 | 156 | -2 707 |
| Q4 | 29 847 | 2 354 | 32 201 | 6 110 | 2 454 | 23 637 | 36 | 23 673 | 25 106 | 1 035 | 261 | -2 729 |
| 2001 Q1 | 28 743 | 2 436 | 31 179 | 6 399 | 2 537 | 22 243 | 200 | 22 443 | 25 188 | 1 157 | 220 | -4 122 |
| Q2 | 28 734 | 2 529 | 31 263 | 6 560 | 2 632 | 22 071 | 443 | 22 514 | 24 969 | 1 807 | 306 | -4 568 |
| Q3 | 27 002 | 2 518 | 29 520 | 5 983 | 2 621 | 20 916 | 489 | 21 405 | 24 982 | 189 | 280 | -4 046 |
| Q4 | 28 146 | 2 735 | 30 881 | 6 425 | 2 839 | 21 617 | 501 | 22 118 | 23 906 | –263 | 263 | -1 788 |
| 2002 Q1 | 28 079 | 3 038 [†] | 31 117 | 5 670 [†] | 3 142 [†] | 22 305 | 573 [†] | 22 878 | 23 739 [†] | 770 [†] | 326 [†] | -1 957 |
| Q2 | 30 054 | 3 068 | 33 122 | 6 294 | 3 173 | 23 655 | 436 | 24 091 | 24 247 | –918 | 282 | 480 |
| Q3 | 32 886 | 3 342 | 36 228 | 5 951 | 3 448 | 26 829 | 495 | 27 324 | 23 630 | 192 | 309 | 3 193 |
| Q4 | 36 017 | 3 418 | 39 435 | 5 782 | 3 525 | 30 128 | 591 | 30 719 | 23 978 | 1 515 | 295 | 4 931 |
| 2003 Q1 | 34 906 | 3 124 | 38 030 | 5 737 | 3 231 | 29 062 | 871 | 29 933 | 23 032 | 1 404 | 278 | 5 219 |
| Q2 | 32 656 | 3 425 | 36 081 | 5 513 | 3 532 | 27 036 | 787 | 27 823 | 24 412 | 353 | 338 | 2 720 |
| Q3 | 33 293 | 3 619 | 36 912 | 6 087 | 3 727 | 27 098 | 782 | 27 880 | 23 744 | 1 084 | 344 | 2 708 |

Quarterly alignment adjustment included in this series.
 Social contributions and other current transfers.
 Total resources equals total uses.
 Social benefits and other current transfers.

⁵ Also known as gross saving.
6 Acquisitions less disposals of valuables and non-produced non-financial assets.
7 Gross of fixed capital consumption.
Source: Office for National Statistics; Enquiries 020 7533 6014



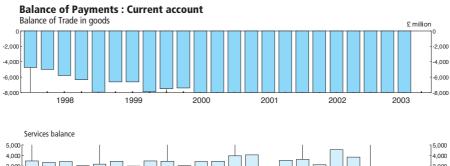


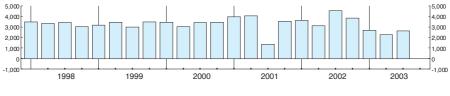
2.13 Balance of payments: current account

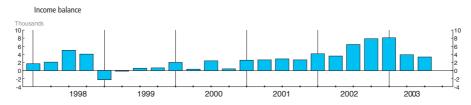
£ million

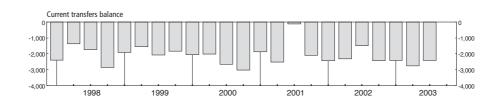
| | | | Trade in goods a | nd services | | | | Current | |
|---------------|---------------------------------|---------------------------------|---------------------------------|-------------------------------|---------------------|-------------------------------|-----------------------------|-------------------------------|------------------------------|
| | Exports of goods+ | Imports of goods+ | Balance of trade in goods | Exports of services | Imports of services | Services balance | Income balance | transfers balance | Current balance |
| Annual | DOKO | DOM | DOM | IKDD | II/DO | IIVDD | LIDO | IIVDD | LIDOD |
| 1999 | BOKG 166 166 | BOKH 195 217 | BOKI -29 051 | IKBB 72 628 | IKBC 59 494 | IKBD 13 134 | HBOJ –1 116 [†] | IKBP -7 383 | HBOP _. –24 416 |
| 2000 | 187 936 | 220 912 | -32 976 | 79 071 | 65 645 | 13 426 | 5 208 | -9 752 | -24 094 |
| 2001 | 190 050 186 517 [†] | 230 670 233 147 [†] | -40 620 -46 630 [†] | 81 658 86 753 [†] | 68 658 | 13 000 15 181 [†] | 10 723 | -6 606 -8 674 [†] | -23 503 |
| 2002 | 180 517 | 233 147 | -46 630° | 86 /53 | 71 572 ^T | 15 181 | 22 152 | -8 674 | -17 971 |
| Quarterly | | | | | | | | | |
| 1999 Q1 | 38 959 | 46 893 | -7 934 6 500 | 17 769 | 14 590 | 3 179 | -2 256 [†] | -1 916 ^T | -8 927 |
| Q2 Q3 | 40 378 43 582 | 46 976 50 180 | -6 598 -6 598 | 18 229 17 586 | 14 770 14 572 | 3 459 3 014 | -155 626 | –1 538 –2 087 | -4 832 -5 045 |
| Q4 | 43 247 | 51 168 | − 7 921 | 19 044 | 15 562 | 3 482 | 669 | -1 842 | -5 612 |
| 2000 Q1 | 44 374 | 51 854 | -7 480 | 18 914 | 15 453 | 3 461 | 1 983 | -2 049 | -4 085 |
| Q2 | 46 851 | 54 256 | -7 405 | 19 257 | 16 209 | 3 048 | 370 | -2 020 | -6 007 5 046 |
| Q3 Q4 | 47 445 49 266 | 56 289 58 513 | -8 844 -9 247 | 20 166 20 734 | 16 716 17 267 | 3 450 3 467 | 2 410 445 | -2 662 -3 021 | -5 646 -8 356 |
| 2001 Q1 | 49 554 | 58 824 | -9 270 | 21 453 | 17 476 | 3 977 | 2 554 | -1 875 | -4 614 |
| 2001 Q1 Q2 | 49 554 48 256 | 58 824 58 890 | -9 270 -10 634 | 21 453 21 497 | 17 476 17 414 | 4 083 | 2 653 | -1 875 -2 519 | -4 614 -6 417 |
| Q3 | 46 539 | 56 715 | -10 176 | 18 488 | 17 116 | 1 372 | 2 860 | -119 | -6 063 |
| Q4 | 45 701 | 56 241 | -10 540 | 20 220 | 16 652 | 3 568 | 2 656 | -2 093 | -6 409 |
| 2002 Q1 | 45 800 [†] | 57 051 [†] | –11 251 [†] | 21 209 [†] | 17 569 [†] | 3 640 [†] | 4 116 | -2 439 | -5 934 |
| Q2 Q3 | 49 380 46 816 | 59 657 58 641 | –10 277 –11 825 | 20 925 22 761 | 17 803 18 210 | 3 122 4 551 | 3 627 6 497 | -2 311 -1 483 | -5 839 -2 260 |
| Q3 Q4 | 44 521 | 57 798 | -11 625 -13 277 | 21 858 | 17 990 | 3 868 | 7 912 | -1 463 -2 441 | -2 260 -3 938 |
| | | | | | | | | | |
| 2003 Q1 Q2 | 47 562 46 330 | 58 663 57 486 | –11 101 –11 156 | 21 214 20 528 | 18 527 18 267 | 2 687 2 261 | 8 162 3 882 | -2 411 -2 769 | –2 663 –7 782 |
| Q3 | 46 265 | 57 920 | -11 f55 -11 655 | 21 133 | 18 493 | 2 640 | 3 350 | -2 418 | -8 083 |
| Monthly | | | | | | | | | |
| 2001 Jan | 16 507 | 19 563 | -3 056 | 7 010 | 5 751 | 1 259 | | | |
| Feb | 16 819 | 19 722 | -2 903 | 7 104 | 5 768 | 1 336 | | | |
| Mar | 16 228 | 19 539 | -3 311 | 7 339 | 5 957 | 1 382 | | | |
| Apr May | 15 880 16 193 | 19 468 19 610 | –3 588 –3 417 | 7 316 7 197 | 5 842 5 832 | 1 474 1 365 | | | |
| Jun | 16 183 | 19 812 | -3 629 | 6 984 | 5 740 | 1 244 | | | |
| Jul | 15 676 | 18 998 | -3 322 | 6 992 | 5 726 | 1 266 | | | |
| Aug | 15 403 | 19 353 | -3 950 | 6 867 | 5 820 | 1 047 | ** | | |
| Sep | 15 460 | 18 364 18 934 | –2 904 –3 102 | 4 629 6 278 | 5 570 5 514 | -941 764 | | | |
| Oct Nov | 15 832 15 208 | 18 620 | -3 412 | 6 844 | 5 595 | 1 249 | | | |
| Dec | 14 661 | 18 687 | -4 026 | 7 098 | 5 543 | 1 555 | | | |
| 2002 Jan | 15 346 [†] | 19 020 [†] | –3 674 [†] | 7 229 | 5 734 | 1 495 | | | |
| Feb | 15 259 | 18 974 | -3 715 | 7 225 | 5 998 | 1 227 | | | |
| Mar Apr | 15 195 16 319 | 19 057 20 110 | –3 862 –3 791 | 6 973 6 922 | 5 891 5 939 | 1 082 983 | | | |
| May | 17 346 | 20 279 | -2 933 | 6 840 | 5 820 | 1 020 | | | |
| Jun | 15 715 | 19 268 | -3 553 | 7 084 | 5 975 | 1 109 | | | |
| Jul | 16 319 | 20 361 | -4 042 | 7 333 | 6 016 | 1 317 | | | |
| Aug | 14 871 | 19 025 | -4 154 | 7 477 | 6 113 | 1 364 | | | |
| Sep Oct | 15 626 15 121 | 19 255 19 517 | -3 629 -4 396 | 7 559 7 383 | 6 064 5 994 | 1 495 1 389 | | | |
| Nov | 14 455 | 19 577 | - 5 122 | 7 203 | 5 740 | 1 463 | | | |
| Dec | 14 945 | 18 704 | -3 759 | 7 242 | 6 020 | 1 222 | | | |
| 2003 Jan | 15 887 | 19 782 | -3 895 | 7 026 | 6 122 | 904 | | | |
| Feb Mar | 16 054 15 621 | 19 285 19 596 | –3 231 –3 975 | 7 023 7 002 | 6 176 6 135 | 847 867 | | | |
| Apr | 16 495 | 19 596 | -3 975 -2 514 | 6 835 | 5 998 | 837 | ** | | |
| May | 15 299 | 19 353 | -4 054 | 6 896 | 6 032 | 864 | | | |
| Jun | 14 536 | 19 124 | -4 588 | 6 829 | 5 941 | 888 | | | |
| Jul | 15 748 | 19 218 | -3 470 | 6 880 [†] | 6 109 [†] | 771 [†] | | | |
| Aug Sep | 15 370 15 147 | 18 882 19 820 | –3 512 –4 673 | 6 995 7 018 | 6 100 5 994 | 895 1 024 | | | |
| Oct | 15 625 | 20 074 | -4 449 | 7 018 | 6 044 | 984 | | | |
| | | | | | | | | | |

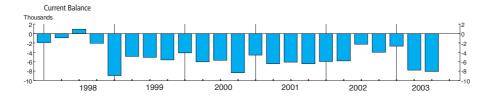
Sources: Office for National Statistics; Enquiries Columns 1-3 020 7533 6064; Columns 4-6 & 8 020 7533 6090; Columns 7 & 9 020 7533 6078.









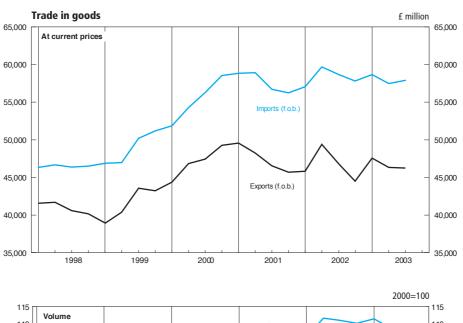


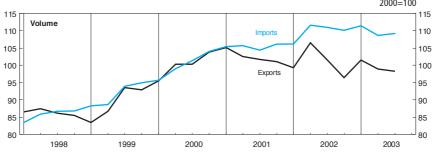
2.14 Trade in goods (on a balance of payments basis)

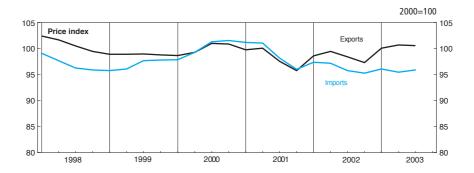
2000 = 100

| | Volume indic | es (SA) | _ | Price indices (NS | A) |
|---------------|--------------------|--------------------|-------------------|-------------------|-----------------------------|
| | Exports | Imports | Exports | Imports | Terms of trade ¹ |
| Annual | BQKU | BQKV | POKD | BQKS | BQKT |
| 1999 | 89.2 | 91.5 | BQKR 98.9 | 96.8 | 102.2 |
| 2000 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 2001 | 102.7 | 105.4 | 98.3 | 99.1 | 99.2 |
| 2002 | 100.9 [†] | 109.7 [†] | 98.4 [†] | 96.4 | 99.2 102.1 ¹ |
| Quarterly | | | | | |
| 1999 Q1 | 83.5 | 88.3 | 98.9 | 95.8 | 103.2 |
| Q2 | 86.7 | 88.7 | 98.9 | 96.1 | 102.9 |
| Q3 Q4 | 93.6 92.9 | 93.9 95.0 | 99.0 98.8 | 97.7 97.8 | 101.3 101.0 |
| | | | | 97.9 | |
| 2000 Q1 Q2 | 95.5 100.3 | 95.7 99.0 | 98.7 99.3 | 99.3 | 100.8 100.0 |
| Q3 | 100.3 | 101.3 | 101.0 | 101.3 | 99.7 |
| Q4 | 103.9 | 104.0 | 100.9 | 101.6 | 99.3 |
| 2001 Q1 | 105.1 | 105.4 | 99.8 | 101.2 | 98.6 |
| Q2 | 102.6 | 105.7 | 100.1 | 101.1 | 99.0 |
| Q3 Q4 | 101.7 101.1 | 104.4 106.2 | 97.6 95.8 | 98.2 96.0 | 99.4 99.8 |
| | | | _ | | |
| 2002 Q1 | 99.3 | 106.2 [†] | 98.6 [†] | 97.4 | 101.2 |
| Q2 | 106.5 ^T | 111.6 | 99.5 | 97.2 | 102.4 |
| Q3 Q4 | 101.5 96.4 | 111.0 110.1 | 98.4 97.3 | 95.8 95.3 | 102.7 102.1 |
| 2003 Q1 | 101.5 | 111.4 | 100.1 | 96.1 [†] | 104.2 |
| Q2 | 98.9 | 108.7 | 100.7 | 95.5 | 105.4 |
| Q3 | 98.3 | 109.2 | 100.6 | 95.9 | 104.9 |
| Monthly | | | | | |
| 2001 Jan | 104.9 | 105.1 | 99.9 | 100.8 | 99.1 |
| Feb | 106.4 | 105.6 | 100.3 | 101.6 | 98.7 |
| Mar | 104.0 | 105.4 | 99.3 | 101.2 | 98.1 |
| Apr | 101.6 | 105.0 | 99.7 | 101.0 | 98.7 |
| May Jun | 102.7 103.6 | 105.2 107.0 | 100.1 100.4 | 101.1 101.2 | 99.0 99.2 |
| Jul | 101.6 | 104.1 | 98.5 | 99.3 | 99.2 |
| Aug | 101.2 | 107.0 | 97.8 | 98.1 | 99.7 |
| Sep | 102.4 | 102.1 | 96.4 | 97.3 | 99.1 |
| Oct | 105.8 | 107.2 | 95.5 | 96.3 | 99.2 |
| Nov | 101.5 | 105.4 | 95.1 | 96.3 | 98.8 |
| Dec | 96.1 | 106.0 | 96.9 | 95.5 | 101.5 |
| 2002 Jan | 99.6 [†] | 105.9 [†] | 97.5 [†] | 97.1 | 100.4 ¹ |
| Feb | 99.7 | 106.3 | 98.4 | 97.1 | 101.3 |
| Mar | 98.5 | 106.3 | 99.9 | 97.9 07.5 | 102.0 102.8 |
| Apr May | 105.0 112.7 | 112.8 114.0 | 100.2 99.2 | 97.5 97.0 | 102.8 |
| Jun | 101.8 | 108.0 | 99.0 | 97.1 | 102.0 |
| Jul | 106.2 | 116.3 | 98.6 | 95.7 | 103.0 |
| Aug | 95.9 | 107.3 | 98.8 | 95.9 | 103.0 |
| Sep | 102.3 | 109.3 | 97.7 | 95.8 | 102.0 |
| Oct | 98.2 | 111.1 | 97.4 | 95.6 | 101.9 |
| Nov Dec | 94.3 96.8 | 112.4 106.7 | 96.8 97.8 | 95.0 95.2 | 101.9 102.7 |
| 2003 Jan | 103.0 | 112.9 | 98.7 | 95.3 [†] | 103.6 |
| Feb | 102.9 | 110.5 | 99.8 | 95.8 | 103.6 |
| Mar | 98.7 | 110.5 | 101.7 | 95.6 97.1 | 104.7 |
| Apr | 105.6 | 107.3 | 100.5 | 96.1 | 104.6 |
| May | 97.4 | 109.7 | 101.4 | 95.6 | 106.1 |
| Jun | 93.8 | 109.1 | 100.2 | 94.9 | 105.6 |
| Jul | 100.7 | 108.9 | 100.3 | 95.5 | 105.0 |
| Aug | 97.8 | 106.5 | 101.1 | 96.2 | 105.1 |
| Sep | 96.5 | 112.3 | 100.4 | 96.1 | 104.5 |
| Oct | 100.1 | 113.3 | 100.1 | 95.8 | 104.5 |

¹ Price index for exports expressed as a percentage of price index for imports.







2.15 Measures of UK competitiveness in trade in manufactures

1995 = 100

| | | | Summa | ary measures | | | | Export | t unit value | index ^{1,6} | |
|--------------|---|-------------------|----------------|---|-------------------------------------|----------------------------|---------|-------------|--------------|----------------------|----------------------|
| | Relative wholesale export prices ⁵ | | | x of relative our costs ⁶ | Import price | Relative profit-ability of | United | United | | | |
| | prices ⁶ | (1990=100) | Actual | Normalised | competi- tiveness ^{2,4} | exports ^{2,4} | Kingdom | States | Japan | France | Germany ³ |
| | CTPC | CTPD | CTPE | CTPF | BBKM | BBKN | CTPI | CTPJ | СТРК | CTPL | СТРМ |
| 1997 | 111.4 | 114.7 | 130.4 | 123.6 | 105.9 | 97.4 | 98.7 | 101.2 | 83.8 | 86.0 | 80.3 |
| 1998 | 111.4 | | 141.2 | 131.5 | 109.2 | 95.8 | 97.7 | 101.2 | 78.1 | 86.0 | 80.5 |
| 1999 | 114.2 | | 141.7 | 133.9 | 109.7 | 94.4 | 97.4 | 101.1 | 82.7 | 81.4 | 76.7 |
| 2000 | 118.2 | | 147.8 | 141.6 | 106.9 | 93.7 | 94.9 | 102.3 | 86.5 | 71.3 | 66.7 |
| 2001 | 117.0 | | 143.9 | 141.4 | 105.6 | 95.8 | 90.7 | 102.3 | 78.3 | 69.5 | 64.7 |
| 2002 | | | | | 109.0 | 96.0 | | | | | |
| 2000 Q1 | 110.4 | | 149.4 | 142.1 | 100.7 | 92.0 | 00.0 | 102.1 | 00.0 | 76.0 | 74.5 |
| | 119.4 118.2 | | 149.4 | | 108.7 108.6 | 92.0 93.2 | 99.3 | 102.1 | 86.2 86.2 | | 71.5 |
| Q2 | | | | 141.2 | | | 95.8 | | | 72.1 | 67.5 |
| Q3 | 116.7 | | 146.2 | 140.2 | 107.0 | 94.6 | 93.0 | 102.6 | 87.2 | 70.1 | 65.4 |
| Q4 | 117.9 | | 146.8 | 142.7 | 105.4 | 94.9 | 91.4 | 102.3 | 86.5 | 67.6 | 62.8 |
| 2001 Q1 | 115.5 | | 142.2 | 138.8 | 105.0 | 95.3 | 92.6 | 102.0 | 84.4 | 72.2 | 66.7 |
| Q2 | 117.4 | | 144.3 | 141.9 | 104.8 | 95.5 | 90.7 | 101.9 | 82.4 | 68.5 | 63.0 |
| Q3 | 117.6 | | 144.2 | 142.1 | 107.1 | 95.6 | 92.3 | 101.8 | 84.2 | 70.1 | 64.2 |
| Q4 | 117.7 | | 144.8 | 142.7 | 108.0 | 94.8 | 92.9 | 101.7 | 84.2 | 70.8 | 64.7 |
| 2002 Q1 | | | | | 109.2 | 95.9 | | | | | |
| Q2 | | | | | 109.4 | 96.8 | | | | | |
| Q3 | | | | | 108.0 | 95.7 | | | | | |
| Q4 | | | | | 109.3 | 94.6 | | | | | |
| 2003 Q1 | | | | | 109.4 | 96.7 | | | | | |
| Percentage c | hange, quarte | er on correspondi | ng quarter of | previous year | | | | | | | |
| 2001 Q2 | -0.7 | | -3.1 | 0.5 | -3.5 | 2.5 | -5.3 | -0.6 | -4.4 | -5.0 | -6.7 |
| Q3 | 0.8 | | -1.4 | 1.4 | 0.1 | 1.1 | -0.8 | -0.8 | -3.4 | 0.0 | -1.8 |
| Q4 | -0.2 | | -1.4 | 0.0 | 2.5 | -0.1 | 1.6 | -0.6 | -2.7 | 4.7 | 3.0 |
| 2002 Q1 | | | | | 4.0 | 0.6 | | | | | |
| Q2 | | | | | 4.4 | 1.4 | | | | | |
| Q3 | | | | | 0.8 | 0.1 | | | | | |
| Q4 | | | | | 1.2 | -0.2 | | | | | |
| 2003 Q1 | | | | | 0.2 | 0.8 | | | | | |
| | | \\/laa a. | aala priaa ind | ex ¹ (1990=100) | | | | Jnit labour | ocata in d | 1.6 | |

| | | Wholesale pri | ice index ¹ (1 | 990=100) | | Unit labour costs index ^{1,6} | | | | | |
|----------------|-------------------|-------------------|---------------------------|----------|----------------------|--|---------------|-------|--------|----------------------|--|
| | United Kingdom | United States | Japan | France | Germany ³ | United Kingdom | United States | Japan | France | Germany ³ | |
| | CTPN | СТРО | CTPP | CTPQ | CTPR | CTPS | CTPT | CTPU | CTPV | CTPW | |
| 1998 | 116.5 | 106.8 | 102.7 | | | 118.6 | 95.6 | 70.5 | 82.8 | 77.1 | |
| 1999 | 115.1 | 108.4 | 114.1 | | | 116.2 | 95.1 | 77.9 | 79.3 | 73.7 | |
| 2000 | | | | | | 108.0 | 94.9 | 77.5 | 68.2 | 61.6 | |
| 2001 | | | | | | 103.3 | 100.8 | 71.1 | 66.4 | 59.5 | |
| 1999 Q4 | 116.8 | 109.7 | 123.4 | | | 116.8 | 94.6 | 82.2 | 77.1 | 70.5 | |
| 2000 Q1 | | | | | | 115.6 | 94.0 | 81.3 | 73.1 | 67.2 | |
| Q2 | | | | | | 109.8 | 94.1 | 78.8 | 69.0 | 62.9 | |
| Q3 | | | | | | 104.6 | 94.9 | 76.1 | 66.8 | 59.5 | |
| Q4 | | | | | | 102.2 | 96.5 | 74.0 | 64.3 | 57.5 | |
| 2001 Q1 | | | | | | 104.3 | 99.2 | 72.5 | 68.5 | 61.5 | |
| Q2 | | | | | | 101.6 | 100.8 | 70.7 | 64.8 | 58.0 | |
| Q3 | | | | | | 103.2 | 101.4 | 71.3 | 66.1 | 59.1 | |
| Q4 | | | | | | 104.2 | 101.7 | 70.1 | 66.4 | 59.5 | |
| Percentage cha | ange, quarter on | corresponding qua | rter of previ | ous year | | | | | | | |
| 1999 Q4 | -0.6 | 2.7 | 12.2 | | | -3.6 | -1.0 | 5.8 | -12.0 | -15.3 | |
| 2000 Q1 | | | | | | -2.3 | -1.1 | 3.4 | -12.6 | -14.8 | |
| Q2 | | | | | | -5.3 | -1.3 | 5.8 | -12.3 | -17.2 | |
| Q3 | | | | | | -8.3 | -0.7 | -0.8 | -14.4 | -16.8 | |
| Q4 | | | | | | -12.5 | 2.0 | -10.0 | -16.6 | -18.4 | |
| 2001 Q1 | | | | | | -9.8 | 5.5 | -10.8 | -6.3 | -8.5 | |
| Q2 | | | | | | -7.5 | 7.1 | -10.3 | -6.1 | -7.8 | |
| Q3 | | | | | | -1.3 | 6.8 | -6.3 | -1.0 | -0.7 | |
| Q4 | | | | | | 2.0 | 5.4 | -5.3 | 3.3 | 3.5 | |

¹ All the indices are based on data expressed in US dollars.

⁴ These series are on a SIC 92 basis.

² Excludes erratics (ships, North sea installations, aircraft, precious stones and silver bullion).
3 Includes the former German Democratic Republic as from 1991 Q1.
5 This series is calculated using UK producer prices. All other country indices are wholesale price indices.
6 Quarterly data have been obtained by interpolating the annuals.

Sources: International Monetary Fund;
Office for National Statistics; Enquiries 020 7533 5914



Prices

Not seasonally adjusted except series RNPE

| | | price index 0=100) | in | onsumer orices dex ^{3,4} 96=100) | | Retail pric | es index | (January 13 | , 1987=10 | 00) | Pensioner pr (Janua 1987= | ry 13, | |
|---|---|---|---|--|----------------------------------|--|--|--|--|--|--|--|--|
| | Materials and fuel | Output: | A | ll items | All ite | ems (RPI) | mortga | s excluding age interest ents (RPIX) | mortga paymen | s excluding age interest its & indirect if (RPIY) ⁵ | | | Purchasing |
| | purchased by manu- facturing industry (SA) ^{1,2} | all manufact- ured products: home sales | Index | Percentage change on a year earlier | Index | Percentage change on a year earlier | Index | Percentage change on a year earlier | Index | Percentage change on a year earlier | 1-person household | 2-person household | power of the pound ⁷ (NSA) (1985=100) |
| Annual | DNDE | DILLI | OUNT | O IVP | OLIANA | 07011 | OLIMIK | ODKO | ODZIM | 0077 | 0715 | 07111 | FIAIC |
| 1999 2000 2001 2002 | RNPE 93.1 100.0 98.8 94.4 | 98.5 100.0 99.7 | CHVJ 104.8 105.6 106.9 108.3 | 1.3 0.8 1.2 1.3 | 170.3 173.3 | 1.5 3.0 1.8 1.7 | CHMK 164.3 167.7 171.3 175.1 | CDKQ 2.3 2.1 2.1 2.2 | CBZW 157.1 159.9 163.7 167.5 | CBZX 1.7 1.8 2.4 2.3 | CZIF 149.6 150.8 152.7 155.3 | CZIU 154.2 156.1 158.5 160.9 | FJAK 57 56 55 54 |
| Quarterly | | | | | | | | | | | | | |
| 1999 Q1 Q2 Q3 Q4 | 91.1 91.7 94.2 95.5 | 98.7 98.6 | 104.0 105.1 104.8 105.3 | 1.6 1.4 1.2 1.2 | 165.5 165.6 | 2.2 1.4 1.2 1.5 | 162.4 164.6 164.6 165.6 | 2.5 2.3 2.2 2.2 | 155.6 157.2 157.2 158.3 | 1.8 1.6 1.4 1.7 | 148.9 149.9 149.5 150.1 | 153.3 154.5 154.2 154.9 | 57 57 57 57 |
| 2000 Q1 Q2 Q3 Q4 | 97.1 97.9 101.9 103.2 | 100.1 100.3 | 104.8 105.7 105.7 106.3 | 0.8 0.6 0.8 0.9 | 170.6 | 2.3 3.1 3.2 3.1 | 165.8 168.0 168.1 169.1 | 2.1 2.1 2.1 2.1 | 158.6 159.9 160.1 161.1 | 1.9 1.7 1.8 1.8 | 150.0 151.0 151.1 151.2 | 154.9 156.2 156.5 156.9 | 57 55 56 55 |
| 2001 Q1 Q2 Q3 Q4 | 100.8 101.6 98.3 94.4 | 100.1 99.8 | 105.7 107.3 107.3 107.4 | 0.9 1.5 1.5 1.0 | 173.9 174.0 | 2.6 1.9 1.8 1.0 | 168.9 171.8 172.1 172.4 | 1.9 2.3 2.4 2.0 | 161.1 164.1 164.6 165.0 | 1.6 2.6 2.8 2.4 | 150.6 153.3 153.0 153.9 | 156.5 159.3 158.9 159.3 | 55 54 54 55 |
| 2002 Q1 Q2 Q3 Q4 | 94.1 94.8 94.4 94.2 | 99.8 99.9 | 107.4 108.3 108.4 109.0 | 1.5 0.9 1.1 1.6 | 176.6 | 1.2 1.2 1.5 2.5 | 172.9 175.0 175.5 176.9 | 2.4 1.9 2.0 2.6 | 165.5 167.1 167.8 169.5 | 2.7 1.8 1.9 2.7 | 154.7 155.3 155.0 156.1 | 160.1 161.0 160.7 161.7 | 54 54 54 53 |
| 2003 Q1 Q2 Q3 | 95.6 94.3 95.6 | 101.1 | 109.0 109.7 109.9 | 1.5 1.3 1.4 | | 3.0 3.0 2.9 | 177.9 180.1 180.5 | 2.9 2.9 2.8 | 170.6 171.8 172.3 | 3.1 2.8 2.7 | 156.7 157.9 158.3 | 162.6 163.7 164.0 | 53 52 52 |
| Monthly | | | | | | | | | | | | | |
| 2002 Jan Feb Mar Apr May Jun | 93.9 93.5 94.8 95.6 94.6 94.2 | 99.2 99.3 99.7 99.9 | 107.1 107.3 107.7 108.1 108.4 108.4 | 1.6 1.5 1.5 1.3 0.8 0.6 | 173.8 174.5 175.7 176.2 | 1.3 1.0 1.3 1.5 1.1 | 172.4 172.8 173.5 174.7 175.2 175.1 | 2.6 2.2 2.3 2.3 1.8 1.5 | 165.0 165.4 166.1 166.9 167.3 167.2 | 3.0 2.7 2.5 2.5 1.8 1.4 | | | 55 54 54 54 54 54 |
| Jul Aug Sep Oct Nov Dec | 94.4 94.5 94.4 94.9 93.0 94.8 | 99.9 100.0 100.1 100.0 | 108.1 108.4 108.7 108.9 108.9 109.3 | 1.0 1.0 | 177.6 177.9 178.2 | 1.5 1.4 1.7 2.1 2.6 2.9 | 175.3 176.4 | 2.0 1.9 2.1 2.3 2.8 2.7 | 167.0 167.6 168.7 169.1 169.6 169.8 | 1.9 1.8 2.0 2.4 2.9 2.9 | | | 54 54 53 53 53 53 |
| 2003 Jan Feb Mar Apr May Jun | 95.5 95.8 95.6 94.6 94.1 94.2 | 100.7 101.4 101.3 101.0 | 108.6 109.0 109.4 109.7 109.7 109.6 | 1.4 1.6 1.6 1.5 1.2 | 179.3 179.9 181.2 181.5 | 2.9 3.2 3.1 3.1 3.0 2.9 | 177.1 177.9 178.7 180.0 180.2 180.0 | 2.7 3.0 3.0 3.0 2.9 2.8 | 169.8 170.6 171.4 171.8 171.9 171.7 | 2.9 3.1 3.2 2.9 2.7 2.7 | | | 53 53 53 52 52 52 |
| Jul Aug Sep Oct Nov | 95.3 96.2 95.2 96.7 96.7 | 101.4 † 101.4 o 101.6 | 109.5 109.9 110.2 p [†] 110.4 p110.3 | 1.3 1.4 1.4 1.4 1.3 | 181.6 182.5 | | 179.9 180.4 181.3 181.3 181.4 | 2.9 2.9 2.8 2.7 2.5 | 171.6 172.2 173.2 173.1 173.1 | 2.8 2.7 2.7 2.4 2.1 | | | 52 52 52 52 52 52 |

Sources: Office for National Statistics; Enquiries Columns 1-2 01633 812106; Columns 3-13 020 7533 5853.

Note: Figures marked with a 'p' are provisional.

1 Minor revisions have been made to seasonally adjusted figures previously published. These reflect the routine updating of the seasonal adjustment

4 Prior to 10 December 2003, the consumer prices index (CPI) was published in the UK as the harmonised index of consumer prices (HICP).

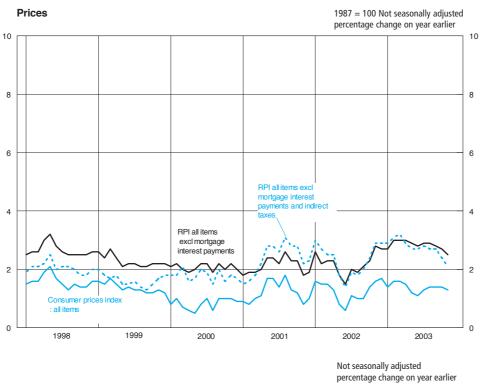
5 The taxes excluded are council tax, VAT, duties, car purchase tax and vehicle

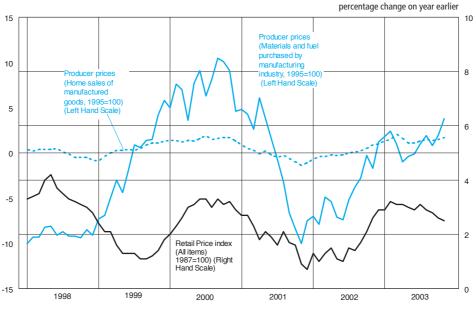
excise duty, insurance tax and airport tax.

² Data now include the Climate Change Levy introduced in April 2001 and the Aggregates Levy introduced in April 2002.

6 Pensioner price indices exclude housing costs, as these are often atypical for a pensioner household, based on RPI.

Further details are given in *Economic Trends* No.541 December 1998.





Labour Market Activity^{1,2} **United Kindom**

| | | Emp | loyment ca | ategories | | Unemployment | Total economically active | Economically inactive | Total aged 16 and over | Employment rate: age 16-59/64 ⁴ |
|---------------------------------------|--------------------|--------------------|-----------------------------|--|---------------------|--------------|---------------------------|-----------------------|------------------------------|---|
| | Employees | Self - employed | Unpaid family workers | Government training and employment programmes | Total employment | | | | | |
| TOTAL | | | | | | | | | | |
| | MGRN | MGRQ | MGRT | MGRW | MGRZ | MGSC | MGSF | MGSI | MGSL | MGSU |
| 2001 Q1 | 24 244 | 3 104 | 98 | 147 | 27 592 | 1 475 | 29 067 | 17 231 | 46 298 | 74.5 |
| Q2 | 24 346 | 3 097 | 95 | 141 | 27 679 | 1 463 | 29 142 | 17 235 | 46 377 | 74.6 |
| Q3 | 24 313 | 3 129 | 95 | 121 | 27 658 | 1 489 | 29 147 | 17 304 | 46 451 | 74.3 |
| Q4 | 24 392 | 3 117 | 104 | 119 | 27 732 | 1 518 | 29 249 | 17 268 | 46 517 | 74.4 |
| 2002 Q1 | 24 427 | 3 114 | 97 | 111 | 27 750 | 1 498 | 29 249 | 17 335 | 46 584 | 74.3 |
| Q2 | 24 531 | 3 146 | 97 | 100 | 27 875 | 1 505 | 29 380 | 17 270 | 46 650 | 74.6 |
| Q3 | 24 481 | 3 171 | 92 | 99 | 27 842 | 1 550 | 29 392 | 17 325 | 46 717 | 74.4 |
| Q4 | 24 632 | 3 181 | 92 | 95 | 28 000 | 1 515 | 29 514 | 17 273 | 46 787 | 74.7 |
| | | | | | | | | | | |
| 2003 Q1 | 24 629 | 3 245 | 87 | 91 | 28 052 | 1 510 | 29 562 | 17 295 | 46 857 | 74.7 |
| Q2 | 24 583 | 3 366 | 88 | 86 | 28 122 | 1 468 | 29 591 | 17 336 | 46 927 | 74.7 |
| Q3 | 24 490 | 3 453 | 103 | 105 | 28 151 | 1 481 | 29 631 | 17 365 | 46 997 | 74.6 |
| Percentage change of 2003q2 to 2003q3 | on quarter -0.4 | 2.6 | 17.7 | 22.1 | 0.1 | 0.8 | 0.1 | 0.2 | 0.1 | |
| Percentage change | | | | | | | | | | |
| 2002q3 to 2003q3 | 0.0 | 8.9 | 12.4 | 6.2 | 1.1 | -4.5 | 0.8 | 0.2 | 0.6 | |
| MALE | MCDO | MCDD | MCDII | MCDV | MCCA | MCSD | MCCC | MCSI | MCCM | MCCV |
| 2001 Q1 | MGRO | MGRR | MGRU | MGRX | MGSA | MGSD | MGSG | MGSJ 6 441 | MGSM 22 323 | MGSV |
| Q2 | 12 581 12 599 | 2 279 2 267 | 35 33 | 95 93 | 14 991 14 992 | 891 879 | 15 882 15 871 | 6 499 | 22 323 | 79.5 79.3 |
| Q3 | 12 611 | 2 300 | 30 | 79 | 15 020 | 899 | 15 919 | 6 494 | 22 414 | 79.3 |
| Q4 | 12 631 | 2 302 | 33 | 74 | 15 040 | 907 | 15 947 | 6 503 | 22 450 | 79.2 |
| | | | | | | | | | | |
| 2002 Q1 | 12 600 | 2 298 | 30 | 69 | 14 998 | 916 | 15 914 | 6 572 | 22 487 | 78.9 |
| Q2 | 12 659 | 2 307 | 31 | 58 | 15 055 | 905 | 15 960 | 6 563 | 22 523 | 79.1 |
| Q3 | 12 612 | 2 327 | 35 | 59 | 15 034 | 936 | 15 970 | 6 590 | 22 560 | 78.9 |
| Q4 | 12 762 | 2 323 | 32 | 61 | 15 179 | 892 | 16 071 | 6 527 | 22 598 | 79.5 |
| 2003 Q1 | 12 721 | 2 357 | 28 | 54 | 15 160 | 917 | 16 077 | 6 558 | 22 636 | 79.2 |
| Q2 | 12 705 | 2 463 | 32 | 50 | 15 250 | 888 | 16 138 | 6 536 | 22 674 | 79.5 |
| Q3 | 12 621 | 2 527 | 38 | 59 | 15 245 | 880 | 16 126 | 6 586 | 22 711 | 79.4 |
| Percentage change of 2003q2 to 2003q3 | on quarter | 2.6 | 20.1 | 18.1 | 0.0 | -0.8 | -0.1 | 0.8 | 0.2 | |
| 200342 10 200343 | -0.7 | 2.0 | 20.1 | 10.1 | 0.0 | -0.8 | -0.1 | 0.8 | 0.2 | |
| Percentage change of 2002q3 to 2003q3 | on year 0.1 | 8.6 | 7.8 | 0.2 | 1.4 | -5.9 | 1.0 | -0.1 | 0.7 | |
| FEMALE | | | | | | | | | | |
| | MGRP | MGRS | MGRV | MGRY | MGSB | MGSE | MGSH | MGSK | MGSN | MGSW |
| 2001 Q1 | 11 662 | 824 | 62 | 52 | 12 601 | 584 | 13 185 | 10 790 | 23 975 | 69.3 |
| Q2 | 11 747 | 830 | 62 | 48 | 12 687 | 584 | 13 271 | 10 736 | 24 007 | 69.6 |
| Q3 Q4 | 11 702 11 761 | 829 815 | 65 71 | 42 45 | 12 638 12 692 | 590 610 | 13 227 13 302 | 10 810 10 765 | 24 038 24 067 | 69.1 69.2 |
| 0000 04 | | | | | | | | | 04.00= | |
| 2002 Q1 Q2 | 11 827 | 816 839 | 68 67 | 42 43 | 12 752 | 582 600 | 13 334 13 420 | 10 763 | 24 097 | 69.4 |
| Q2 Q3 | 11 872 11 868 | 839 844 | 56 | 43 39 | 12 820 12 808 | 615 | 13 420 | 10 707 10 734 | 24 126 24 157 | 69.7 69.6 |
| Q4 | 11 870 | 857 | 60 | 34 | 12 821 | 622 | 13 443 | 10 734 | 24 187 | 69.6 |
| 0000 04 | | | | | | | | 10.700 | | |
| 2003 Q1 | 11 908 | 888 | 59 56 | 37 | 12 892 | 593 591 | 13 485 | 10 736 | 24 221 | 69.9 |
| Q2 Q3 | 11 878 11 869 | 903 925 | 56 65 | 36 45 | 12 872 12 905 | 581 600 | 13 453 13 506 | 10 800 10 779 | 24 253 24 285 | 69.6 69.6 |
| Percentage change of 2003q2 to 2003q3 | on quarter | 2.4 | 16.3 | 27.8 | 0.3 | 3.4 | 0.4 | -0.2 | 0.1 | |
| | | | | | 2.0 | 5 | | | | |
| Percentage change of 2002q3 to 2003q3 | on year | 9.7 | 15.2 | 15.3 | 0.8 | -2.4 | 0.6 | 0.4 | 0.5 | |

¹ The data in this table have been adjusted to reflect the 2001 Census popu-

lation data.

2 Data are from the Labour Force Survey which uses the definitions recommended by the International Labour Organisation (ILO), an agency of the United Nations. For details see the *Guide to Labour Market Statistics Releases*.

³ Seasonally adjusted estimates are revised in April each year.
4 The employment rate equals those in employment aged 16-64 (male) and 16-59 (female), as a percentage of all in these age groups. The underlying data are available on request.

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4.2 Labour Market Activity^{1,2} United Kingdom

Thousands, not seasonally adjusted

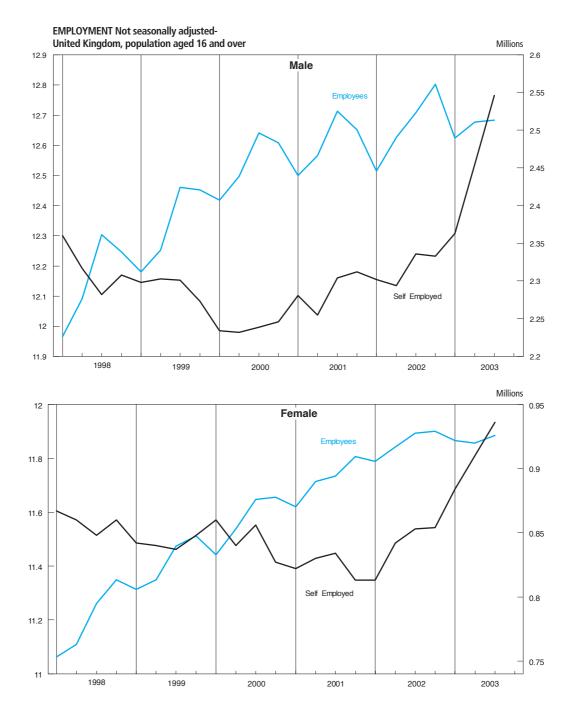
| | | Emp | oloyment ca | ategories | | Unemployment | Total economically active | Economically inactive | Total aged 16 and over | Employment rate: age 16-59/64 ³ |
|------------------------------------|------------------|--------------------|-----------------------------|--|------------------|----------------|---------------------------|-----------------------|------------------------------|---|
| | Employees | Self - employed | Unpaid family workers | Government training and employment programmes | Total employment | | | | | |
| TOTAL | | | | | | | | | | |
| 0004 04 | MGTA 24 121 | MGTD | MGTG | MGTJ | MGTM | MGTP | MGTS | MGTV | MGSL 46 298 | MGUH |
| 2001 Q1 Q2 | 24 121 | 3 103 3 085 | 95 93 | 150 144 | 27 468 27 601 | 1 488 1 419 | 28 957 29 021 | 17 341 17 356 | 46 298 46 377 | 74.2 74.4 |
| Q3 Q4 | 24 449 | 3 138 3 125 | 100 105 | 112 121 | 27 799 27 810 | 1 559 1 476 | 29 358 29 285 | 17 093 | 46 451 46 517 | 74.7 74.6 |
| | 24 459 | 3 123 | | 121 | 27 010 | 1476 | | 17 232 | 40 317 | |
| 2002 Q1 Q2 | 24 304 24 469 | 3 116 3 137 | 94 95 | 115 104 | 27 628 27 804 | 1 512 1 464 | 29 140 29 268 | 17 444 17 381 | 46 584 46 650 | 74.0 74.4 |
| Q3 | 24 601 | 3 189 | 95 | 89 | 27 974 | 1 629 | 29 604 | 17 113 | 46 717 | 74.7 |
| Q4 | 24 702 | 3 188 | 94 | 97 | 28 081 | 1 473 | 29 554 | 17 233 | 46 787 | 74.9 |
| 2003 Q1 | 24 490 | 3 247 | 83 | 97 | 27 916 | 1 520 | 29 436 | 17 421 | 46 857 | 74.3 |
| Q2 | 24 534 | 3 365 | 86 | 89 | 28 074 | 1 411 | 29 485 | 17 442 | 46 927 | 74.6 |
| Q3 | 24 569 | 3 481 | 109 | 99 | 28 259 | 1 567 | 29 826 | 17 171 | 46 997 | 74.9 |
| Percentage change 2002q3 to 2003q3 | on year -0.1 | 9.2 | 14.7 | 11.2 | 1.0 | -3.8 | 0.7 | 0.3 | 0.6 | |
| MALE | | | | | | | | | | |
| 2001 Q1 | MGTB 12 500 | MGTE 2 281 | MGTH 36 | MGTK 97 | MGTN 14 914 | MGTQ 904 | MGTT 15 817 | MGTW 6 506 | MGSM 22 323 | MGUI 79.1 |
| Q2 | 12 566 | 2 255 | 32 | 95 | 14 949 | 859 | 15 808 | 6 562 | 22 370 | 79.1 |
| Q3 | 12 714 | 2 304 | 29 | 75 | 15 123 | 927 | 16 050 | 6 363 | 22 414 | 79.8 |
| Q4 | 12 652 | 2 312 | 34 | 73 | 15 071 | 883 | 15 955 | 6 496 | 22 450 | 79.4 |
| 2002 Q1 | 12 515 | 2 302 | 30 | 72 | 14 918 | 930 | 15 849 | 6 638 | 22 487 | 78.5 |
| Q2 Q3 | 12 626 12 708 | 2 294 2 336 | 30 36 | 59 56 | 15 009 15 135 | 886 968 | 15 895 16 102 | 6 629 6 458 | 22 523 22 560 | 78.8 79.4 |
| Q4 | 12 803 | 2 333 | 33 | 61 | 15 230 | 865 | 16 095 | 6 503 | 22 598 | 79.7 |
| 2003 Q1 | 12 624 | 2 363 | 27 | 58 | 15 072 | 935 | 16 007 | 6 629 | 22 636 | 78.7 |
| Q2 | 12 677 | 2 455 | 31 | 51 | 15 213 | 860 | 16 073 | 6 601 | 22 674 | 79.3 |
| Q3 | 12 684 | 2 546 | 40 | 57 | 15 326 | 916 | 16 242 | 6 469 | 22 711 | 79.8 |
| Percentage change 2002q3 to 2003q3 | on year -0.2 | 9.0 | 11.1 | 1.8 | 1.3 | -5.4 | 0.9 | 0.2 | 0.7 | |
| FEMALE | | | | | | | | | | |
| 2001 01 | MGTC | MGTF | MGTI | MGTL | MGTO | MGTR | MGTU | MGTX | MGSN | MGUJ |
| 2001 Q1 Q2 | 11 620 11 714 | 822 830 | 59 61 | 54 49 | 12 555 12 653 | 585 560 | 13 139 13 213 | 10 836 10 794 | 23 975 24 007 | 69.0 69.4 |
| Q3 | 11 735 | 834 | 70 | 37 | 12 676 | 631 | 13 308 | 10 730 | 24 038 | 69.3 |
| Q4 | 11 807 | 813 | 71 | 48 | 12 738 | 592 | 13 330 | 10 737 | 24 067 | 69.5 |
| 2002 Q1 | 11 789 | 813 | 64 | 43 | 12 710 | 581 | 13 291 | 10 806 | 24 097 | 69.2 |
| Q2 | 11 843 | 842 853 | 65 60 | 45 33 | 12 795 12 840 | 578 | 13 374 13 501 | 10 753 10 655 | 24 126 24 157 | 69.6 |
| Q3 Q4 | 11 893 11 900 | 854 | 61 | 36 | 12 851 | 662 607 | 13 459 | 10 730 | 24 187 | 69.8 69.8 |
| 2003 Q1 | 11 866 | 884 | 56 | 39 | 12 844 | 585 | 13 429 | 10 792 | 24 221 | 69.6 |
| Q2 | 11 857 | 910 | 55 | 39 | 12 861 | 551 | 13 412 | 10 792 | 24 253 | 69.6 |
| Q3 | 11 885 | 936 | 69 | 42 | 12 933 | 651 | 13 583 | 10 702 | 24 285 | 69.7 |
| Percentage change 2002q3 to 2003q3 | on year -0.1 | 9.7 | 15.0 | 27.3 | 0.7 | -1.7 | 0.6 | 0.4 | 0.5 | |

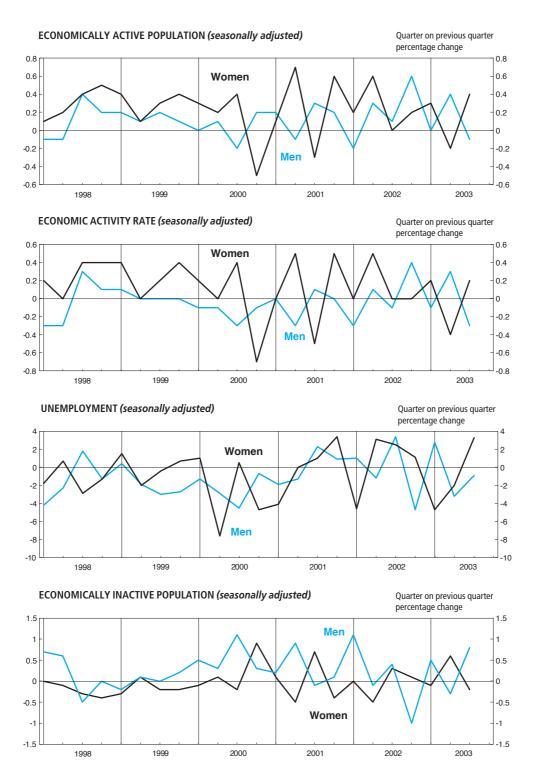
lation data.

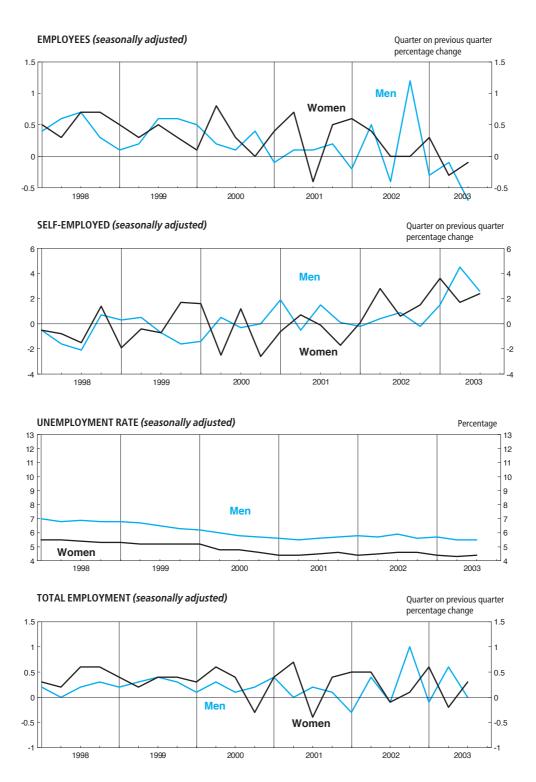
2 Data are from the Labour Force Survey which uses the definitions recommended by the International Labour Organisation (ILO), an agency of the United Nations. For details see the Guide to Labour market Statistics Releases.

¹ The data in this table have been adjusted to reflect the 2001 Census population data.

3 The employment rate equals those in employment aged 16-64 (male) and 16-59 (female), as a percentage of all in these age groups. The underlying data are from the Labour Force Survey which uses the definitions recom-







Labour Market Activity by age^{1,2} United Kingdom

Thousands, seasonally adjusted³

| | Total | aged 16 and | over | | | | Age g | roups ⁴ | | | |
|------------------|------------------|-------------------|------------------|----------------|----------------|----------------|----------------|--------------------|----------------|----------------|----------------|
| | | | | 16 | - 24 | 25 | - 49 | 50 - | 59/64 | 60/65 a | ind over |
| | Total | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female |
| In employment | | | | | | | | | | | |
| 2001 Q3 | MGRZ 27 658 | MGSA 15 020 | MGSB 12 638 | MGUR 2 055 | MGUS 1 884 | MGUU 9 141 | MGUV 7 772 | MGUX 3 540 | MGUY 2 401 | MGVA 284 | MGVB 581 |
| Q4 | 27 732 | 15 040 | 12 692 | 2 076 | 1 921 | 9 111 | 7 752 | 3 555 | 2 429 | 297 | 590 |
| 2002 Q1 | 27 750 | 14 998 | 12 752 | 2 063 | 1 923 | 9 105 | 7 798 | 3 543 | 2 434 | 287 | 597 |
| Q2 | 27 875 | 15 055 | 12 820 | 2 077 | 1 940 | 9 123 | 7 824 | 3 560 | 2 462 | 295 | 594 |
| Q3 Q4 | 27 842 28 000 | 15 034 15 179 | 12 808 12 821 | 2 045 2 101 | 1 943 1 952 | 9 109 9 135 | 7 787 7 792 | 3 582 3 633 | 2 484 2 491 | 299 310 | 593 586 |
| 2003 Q1 | 28 052 | 15 160 | 12 892 | 2 084 | 1 949 | 9 099 | 7 831 | 3 649 | 2 516 | 329 | 595 |
| Q2 | 28 122 | 15 250 | 12 872 | 2 089 | 1 927 | 9 118 | 7 808 | 3 710 | 2 538 | 334 | 600 |
| Q3 | 28 151 | 15 245 | 12 905 | 2 096 | 1 930 | 9 124 | 7 788 | 3 689 | 2 558 | 336 | 629 |
| Unemployed | 11000 | 14000 | 14005 | 1401/0 | 1401/11 | 1401/1 | 1401/1/ | 1401/14 | 1401/11 | MOV/D | 1401/0 |
| 2001 Q3 | MGSC 1 489 | MGSD 899 | MGSE 590 | MGVG 324 | MGVH 220 | MGVJ 414 | MGVK 299 | MGVM 155 | MGVN 63 | MGVP | MGVQ |
| Q4 | 1 518 | 907 | 610 | 334 | 232 | 428 | 308 | 138 | 63 | | |
| 2002 Q1 | 1 498 | 916 | 582 | 338 | 222 | 431 | 288 | 138 | 65 | | |
| Q2 | 1 505 | 905 | 600 | 327 | 215 | 419 | 304 | 150 | 69 | . :: | 12 |
| Q3 Q4 | 1 550 1 515 | 936 892 | 615 622 | 335 338 | 225 224 | 430 396 | 309 313 | 161 152 | 68 72 | 10 | 13 13 |
| 2003 Q1 | 1 510 | 917 | 593 | 349 | 230 | 399 | 287 | 162 | 66 | | |
| Q2 | 1 468 | 888 | 581 | 339 | 235 | 393 | 270 | 147 | 66 | | |
| Q3 | 1 481 | 880 | 600 | 339 | 241 | 396 | 283 | 137 | 70 | | |
| Economically ina | | | | | | | | | | | |
| 2001 Q3 | MGSI 17 304 | MGSJ 6 494 | MGSK 10 810 | MGVV 806 | MGVW 1 074 | MGVY 806 | MGVZ 2 482 | MGWB 1 351 | MGWC 1 261 | MGWE 3 531 | MGWF 5 993 |
| Q4 | 17 268 | 6 503 | 10 765 | 794 | 1 040 | 815 | 2 493 | 1 364 | 1 246 | 3 530 | 5 986 |
| 2002 Q1 | 17 335 | 6 572 | 10 763 | 822 | 1 062 | 811 | 2 464 | 1 388 | 1 252 | 3 552 | 5 984 |
| Q2 | 17 270 | 6 563 | 10 707 | 837 | 1 066 | 798 | 2 421 | 1 372 | 1 233 | 3 556 | 5 987 |
| Q3 Q4 | 17 325 17 273 | 6 590 6 527 | 10 734 10 746 | 880 840 | 1 067 1 075 | 795 796 | 2 452 2 442 | 1 351 1 321 | 1 223 1 218 | 3 564 3 570 | 5 992 6 010 |
| 2003 Q1 | 17 295 | 6 558 | 10 736 | 866 | 1 087 | 821 | 2 428 | 1 307 | 1 206 | 3 565 | 6 016 |
| Q2 | 17 336 | 6 536 | 10 800 | 890 | 1 121 | 801 | 2 467 | 1 272 | 1 190 | 3 572 | 6 022 |
| Q3 | 17 365 | 6 586 | 10 779 | 901 | 1 127 | 786 | 2 474 | 1 314 | 1 172 | 3 584 | 6 007 |
| Economic activit | y rate (per ce | ent) ⁵ | MOVA | MOMIL | MOW | MOMM | MOWO | MOMO | MOME | MOME | MOMUL |
| 2001 Q3 | MGWG 62.7 | MGWH 71.0 | MGWI 55.0 | MGWK 74.7 | MGWL 66.2 | MGWN 92.2 | MGWO 76.5 | MGWQ 73.2 | MGWR 66.2 | MGWT 7.6 | MGWU 8.9 |
| Q4 | 62.9 | 71.0 | 55.3 | 75.2 | 67.4 | 92.1 | 76.4 | 73.0 | 66.7 | 7.9 | 9.1 |
| 2002 Q1 | 62.8 | 70.8 | 55.3 | 74.5 | 66.9 | 92.2 | 76.6 | 72.6 | 66.6 | 7.7 | 9.2 |
| Q2 | 63.0 | 70.9 | 55.6 | 74.2 | 66.9 | 92.3 | 77.1 | 73.0 | 67.2 | 7.9 | 9.2 |
| Q3 Q4 | 62.9 63.1 | 70.8 71.1 | 55.6 55.6 | 73.0 74.4 | 67.0 66.9 | 92.3 92.3 | 76.8 76.8 | 73.5 74.1 | 67.6 67.8 | 8.0 8.2 | 9.2 9.1 |
| 2003 Q1 | 63.1 | 71.0 | 55.7 | 73.7 | 66.7 | 92.0 | 77.0 | 74.5 | 68.2 | 8.6 | 9.1 |
| Q2 | 63.1 | 71.2 | 55.5 | 73.2 | 65.9 | 92.2 | 76.6 | 75.2 | 68.6 | 8.7 | 9.2 |
| Q3 | 63.1 | 71.0 | 55.6 | 73.0 | 65.8 | 92.4 | 76.5 | 74.4 | 69.2 | 8.8 | 9.6 |
| Unemployment r | ate (per cent |) ⁶ | MCCZ | MCMZ | MCVA | MCVC | MCVD | MOVE | MCVC | MCVI | MCVI |
| 2001 Q3 | MGSX 5.1 | MGSY 5.6 | MGSZ 4.5 | MGWZ 13.6 | MGXA 10.5 | MGXC 4.3 | MGXD 3.7 | MGXF 4.2 | MGXG 2.6 | MGXI | MGXJ |
| Q4 | 5.2 | 5.7 | 4.6 | 13.9 | 10.8 | 4.5 | 3.8 | 3.7 | 2.5 | | |
| 2002 Q1 | 5.1 | 5.8 | 4.4 | 14.1 | 10.3 | 4.5 | 3.6 | 3.8 | 2.6 | ** | |
| Q2 | 5.1 | 5.7 | 4.5 | 13.6 | 10.0 | 4.4 | 3.7 | 4.0 | 2.7 | | 2.0 |
| Q3 Q4 | 5.3 5.1 | 5.9 5.6 | 4.6 4.6 | 14.1 13.9 | 10.4 10.3 | 4.5 4.2 | 3.8 3.9 | 4.3 4.0 | 2.7 2.8 | 3.2 | 2.1 2.2 |
| 2003 Q1 | 5.1 | 5.7 | 4.4 | 14.3 | 10.6 | 4.2 | 3.5 | 4.2 | 2.6 | | |
| Q2 | 5.0 | 5.5 | 4.3 | 14.0 | 10.9 | 4.1 | 3.3 | 3.8 | 2.6 | | |
| Q3 | 5.0 | 5.5 | 4.4 | 13.9 | 11.1 | 4.2 | 3.5 | 3.6 | 2.6 | | |

¹ The data in this table have been adjusted to reflect the 2001 Census popu-

unemployed on the ILO measure.

Source: Office for National Statistics; Enquiries 020 7533 6094

lation data.

2 Data are from the Labour Force Survey which uses the definitions recommended by the International Labour Organisation (ILO), an agency of the United Nations. For details see the *Guide to Labour Market Statistics Releases*.

³ Seasonally adjusted estimates are revised in April each year.

Data for more detailed age groups are published in Labour Market Trends.
 The activity rate is the percentage of people in each age group who are economically active.

⁶ Unemployment rate is the percentage of economically active people who are

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Jobs and claimant count **United Kingdom**

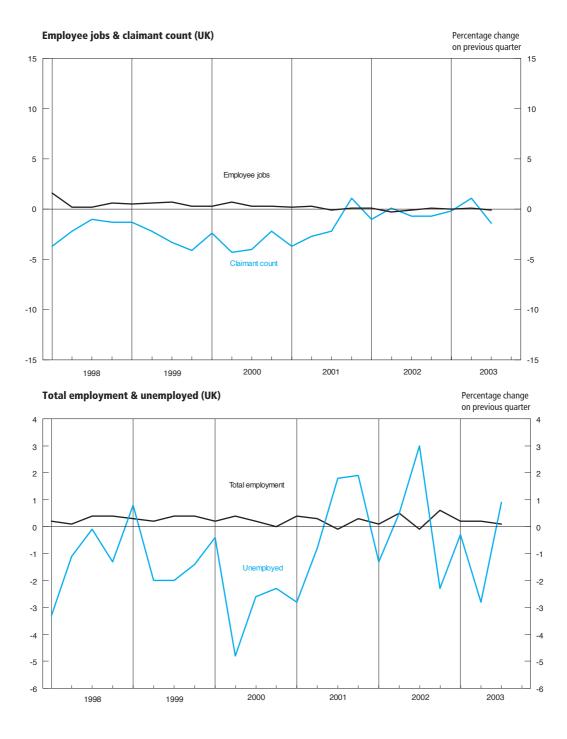
Thousands

| | | , | Jobs ¹ | | Claimant count ^{5,6} | ,9 | | | |
|-----------|---------------------------------|---------------------|------------------------|---------------------|-------------------------------|--------------------|--------------------------------------|------------------------|--|
| | | | Employee jo | bs ^{3,4} | | | Percentage of workforce | Total Not | |
| | Workforce jobs ^{2,3,4} | All industries | Manufacturing industry | Production industry | Service industries | Total | jobs and claimant count ⁷ | seasonally adjusted | Job Centre vacancies+ ^{8,10} |
| Annual | DYDC | BCAJ | YEJA | YEJF | YEJC | BCJD | BCJE | BCJA | DPCB |
| 2000 | 29 271 | 25 626 | 3 960 | 4 159 | 19 962 | 1 088.4 | 3.6 | 1 102.3 | 358.3 |
| 2001 | 29 495 | 25 882 | 3 808 | 4 017 | 20 420 | 970.1 | 3.2 | 983.0 | |
| 2002 | 29 491 [†] | 25 829 | 3 628 | 3 836 | 20 420 20 613 [†] | 946.8 | 3.1 | 958.8 | |
| 2003 | 29 716 | 25 837 [†] | 3 503 [†] | 3 706 | 20 753 | | J. 1 | | |
| Quarterly | | | | | | | | | |
| 2000 Q1 | 29 104 | 25 453 | 3 990 | 4 187 | 19 784 | 1 153.0 | 3.8 | 1 219.2 | 342.2 |
| Q2 | 29 271 | 25 626 | 3 960 | 4 159 | 19 962 | 1 103.9 | 3.6 | 1 109.2 | 355.7 |
| Q3 | 29 314 | 25 692 | 3 918 | 4 119 | 20 105 | 1 060.0 | 3.5 | 1 073.6 | 363.4 |
| Q4 | 29 390 | 25 774 | 3 889 | 4 096 | 20 230 | 1 036.7 | 3.4 | 1 007.1 | 371.8 |
| 2001 Q1 | 29 429 | 25 816 | 3 860 | 4 068 | 20 321 | 998.5 | 3.3 | 1 064.1 | 394.1 |
| Q2 | 29 495 | 25 882 | 3 808 | 4 017 | 20 420 | 971.5 | 3.2 | 978.4 | |
| Q3 | 29 459 | 25 864 | 3 755 | 3 965 | 20 456 | 949.9 | 3.1 | 958.5 | |
| Q4 | 29 509 | 25 897 ^T | 3 705 | 3 914 | 20 537 | 960.4 | 3.2 | 931.0 | |
| 2002 Q1 | 29 524 [†] | 25 918 | 3 666 | 3 876 | 20 612 [†] | 951.0 | 3.1 | 1 014.6 | |
| Q2 | 29 491 | 25 829 | 3 628 | 3 836 | 20 613 | 952.3 | 3.1 | 958.1 | |
| Q3 | 29 517 | 25 806 | 3 593 | 3 797 | 20 657 | 945.3 | 3.1 | 951.8 | |
| Q4 | 29 564 | 25 825 | 3 561 | 3 765 | 20 698 | 938.6 | 3.1 | 910.6 | |
| 2003 Q1 | 29 646 | 25 815 | 3 536_ | 3 738 | 20 708 | 936.5 | 3.1 | 1 001.1 | |
| Q2 | 29 716 | 25 837 | 3 503 ^T | 3 706 | 20 753 | 946.5 | 3.1 | 954.3 | |
| Q3 | 29 779 | 25 809 | 3 475 | 3 677 [†] | 20 726 | 933.2 | 3.1 | 939.0 | |
| Monthly | | | | | | | | | |
| 2002 Jan | | | 3 693 | 3 903 | | 955.2 | 3.1 | 1 021.5 | |
| Feb | | | 3 679 | 3 889 | | 950.1 | 3.1 | 1 024.0 | |
| Mar | | 25 918 [†] | 3 666 | 3 876 | 20 612 [†] | 947.6 | 3.1 | 998.2 | |
| Apr | | | 3 655 | 3 864 | | 954.7 | 3.1 | 982.7 | |
| May | | | 3 640 | 3 848 | | 950.5 | 3.1 | 954.5 | |
| Jun | | 25 829 | 3 628 | 3 836 | 20 613 | 951.8 | 3.1 | 937.0 | |
| Jul | | | 3 616 | 3 823 | | 948.5 | 3.1 | 956.4 | |
| Aug | | | 3 605 | 3 810 | | 942.7 | 3.1 | 962.7 | |
| Sep | | 25 806 | 3 593 | 3 797 | 20 657 | 944.6 | 3.1 | 936.2 | |
| Oct | | | 3 584 | 3 789 | | 942.2 | 3.1 | 907.2 | |
| Nov | | | 3 574 | 3 778 | | 938.6 | 3.1 | 905.6 | |
| Dec | | 25 825 | 3 561 | 3 765 | 20 698 | 935.1 | 3.1 | 919.1 | |
| 2003 Jan | | | 3 554 | 3 756 | | 932.4 | 3.1 | 998.0 | |
| Feb | | | 3 546 | 3 748 | | 938.1 | 3.1 | 1 012.8 | |
| Mar | | 25 815 | 3 536 | 3 738 | 20 708 | 939.0 | 3.1 | 992.3 | |
| Apr | | | 3 523 | 3 725 | | 941.1 | 3.1 | 966.1 | ** |
| May | | | 3 515 | 3 717 | | 950.3 | 3.1 | 957.8 | |
| Jun | | 25 837 | 3 503 [†] | 3 706 | 20 753 | 948.0 | 3.1 | 939.2 | |
| Jul | | | 3 488 | 3 691 [†] | | 937.7 | 3.1 | 946.3 | |
| Aug | | | 3 479 | 3 682 | | 931.7 | 3.1 | 948.6 | |
| Sep | | 25 809 | 3 475 | 3 677 | 20 726 | 930.2 | 3.1 | 922.1 | |
| Oct | | | 3 468 | 3 669 | | 925.7 ^T | 3.0 | 893.2 | |
| Nov | | | | | | 917.8 | 3.0 | 884.6 | |

- 1 Estimates of employee jobs and workforce jobs for Great Britain now use the Annual Business Inquiry as a benchmark on which quarterly movements are based. For further information see Labour Market Statistics First Release, April 2001 which is held on the National Statistics website www.statistics.gov.uk The Northern Ireland component of workforce jobs and employee jobs has not changed.
- 2 Workforce jobs comprise employee jobs, self-employed jobs, HM Forces and participants in work-related government supported training, which includes the Project Work Plan
- 3 For all dates, individuals with two jobs as employees of different employers are counted twice.
- 4 Annual estimates relate to mid-year. Figures for the four quarters relate to March, June, September and December. For claimant count, unlike employment and workforce figures, the annual figure is an annual average.
- coverage. The seasonally adjusted figures however, as given in this table are estimated on the current basis, allowing for the discontinuities, except for the effect of the Jobseeker's Allowance introduced in October 1996 (see also below)
- The seasonally adjusted figures now relate only to claimants aged 18 or over in order to maintain the consistent series, available back to 1971 (1974 for the regions), allowing for the effect of the change in benefit regulations for under 18 year olds from September 1988. (See pages 398 - 400 of November 1995 Labour Market Trends.)
- 6 Claimant count figures do not include students claiming benefit during a vacation who intend to return to full-time education.
- The denominator used to calculate claimant count unemployment rates is comprised of the workforce jobs plus the claimant count.

 8 Vacancies notified to Jobcentres and remaining unfilled. Jobcentre vacancies
- only account for approximately one third of all vacancies in the economy. Note: Quarter figures relate to the average for the three months in the quarter
- 9 Quarterly and annual values are now the mean of the monthly and guarterly data respectively.
- 5 Unadjusted claimant count figures have been affected by changes in the 10 Publication of the job centre vacancy statistics has been deferred. Figures from May 2001 are affected by the introduction of Employer Direct. This major change involves transferring the vacancy taking process from job centres to regional Customer Service Centres, as part of Modernising the Employment Service. ONS and the Employment Service will continue to monitor and review the data with the aim of publishing the series fairly soon, as it is possible to produce a consistent measure.

Sources: Office for National Statistics: Enquiries Columns 1-5 01633 812079; Columns 6,9 020 7533 6094, also 24 hour recorded headline service on 020 7533 6176



4.5 Regional claimant count rates^{1,2} by Government Office Region

Percentages

| | North East | North West ³ | Yorkshire and the Humber | East Midlands | West Midlands | East | London | South East |
|-----------|------------|-------------------------|--------------------------------|------------------|------------------|------|--------|------------|
| Quarterly | | | | | | | | |
| | DPDM | IBWC | DPBI | DPBJ | DPBN | DPDP | DPDQ | DPDR |
| 1998 Q1 | 7.3 | 5.2 | 5.5 | 4.0 | 4.6 | 3.4 | 5.3 | 2.7 |
| Q2 | 7.0 | 5.1 | 5.4 | 3.9 | 4.5 | 3.3 | 5.2 | 2.7 |
| Q3 | 7.0 | 5.1 | 5.4 | 3.9 | 4.5 | 3.2 | 5.1 | 2.6 |
| Q4 | 7.0 | 5.0 | 5.3 | 3.9 | 4.5 | 3.2 | 5.0 | 2.5 |
| 1999 Q1 | 7.4 | 4.8 | 5.3 | 3.8 | 4.6 | 3.0 | 4.7 | 2.4 |
| Q2 | 7.3 | 4.7 | 5.1 | 3.7 | 4.6 | 3.0 | 4.6 | 2.3 |
| Q3 | 7.1 | 4.6 | 5.0 | 3.6 | 4.5 | 2.9 | 4.5 | 2.2 |
| Q4 | 6.7 | 4.4 | 4.8 | 3.5 | 4.3 | 2.7 | 4.3 | 2.1 |
| 2000 Q1 | 6.6 | 4.4 | 4.7 | 3.5 | 4.2 | 2.6 | 4.0 | 2.0 |
| Q2 | 6.4 | 4.2 | 4.4 | 3.4 | 4.1 | 2.5 | 3.8 | 1.9 |
| Q3 | 6.1 | 4.0 | 4.2 | 3.3 | 4.0 | 2.3 | 3.6 | 1.8 |
| Q4 | 6.0 | 3.9 | 4.1 | 3.3 | 4.0 | 2.3 | 3.5 | 1.7 |
| 2001 Q1 | 5.9 | 3.8 | 4.1 | 3.2 | 3.9 | 2.1 | 3.3 | 1.6 |
| Q2 | 5.7 | 3.8 | 4.0 | 3.2 | 3.8 | 2.1 | 3.2 | 1.5 |
| Q3 | 5.5 | 3.7 | 3.9 | 3.0 | 3.7 | 2.0 | 3.2 | 1.5 |
| Q4 | 5.6 | 3.7 | 3.8 | 3.0 | 3.6 | 2.1 | 3.4 | 1.6 |
| 2002 Q1 | 5.4 | 3.6 | 3.7 | 2.9 | 3.6 | 2.1 | 3.5 | 1.6 |
| Q2 | 5.3 | 3.6 | 3.7 | 2.9 | 3.5 | 2.1 | 3.6 | 1.7 |
| Q3 | 5.2 | 3.5 | 3.7 | 2.9 | 3.5 | 2.1 | 3.6 | 1.7 |
| Q4 | 5.0 | 3.5 | 3.6 | 2.9 | 3.5 | 2.1 | 3.6 | 1.7 |
| 2003 Q1 | 4.9 | 3.5 | 3.6 | 2.8 | 3.6 | 2.1 | 3.6 | 1.7 |
| Q2 | 4.8 | 3.4 | 3.5 | 2.9 | 3.6 | 2.2 | 3.7 | 1.8 |
| Q3 | 4.7 | 3.4 | 3.4 | 2.9 | 3.6 | 2.2 | 3.7 | 1.8 |

| | South West | England | Wales | Scotland | Great Britain | Northern Ireland | United Kingdom |
|-----------|------------|---------|-------|----------|------------------|---------------------|-------------------|
| Quarterly | | | | | | | |
| | DPBM | VASQ | DPBP | DPBQ | DPAJ | DPBR | BCJE |
| 1998 Q1 | 3.5 | 4.4 | 5.6 | 5.5 | 4.6 | 7.6 | 4.7 |
| Q2 | 3.4 | 4.3 | 5.5 | 5.4 | 4.5 | 7.4 | 4.6 |
| Q3 | 3.4 | 4.3 | 5.4 | 5.5 | 4.4 | 7.3 | 4.5 |
| Q4 | 3.3 | 4.2 | 5.4 | 5.4 | 4.4 | 7.2 | 4.5 |
| 1999 Q1 | 3.3 | 4.1 | 5.3 | 5.2 | 4.3 | 7.0 | 4.3 |
| Q2 | 3.2 | 4.0 | 5.2 | 5.2 | 4.2 | 6.7 | 4.2 |
| Q3 | 3.0 | 3.9 | 4.9 | 5.0 | 4.0 | 6.2 | 4.1 |
| Q4 | 2.8 | 3.7 | 4.7 | 4.8 | 3.9 | 5.8 | 3.9 |
| 2000 Q1 | 2.7 | 3.6 | 4.5 | 4.8 | 3.8 | 5.5 | 3.8 |
| Q2 | 2.6 | 3.5 | 4.4 | 4.6 | 3.6 | 5.3 | 3.6 |
| Q3 | 2.4 | 3.3 | 4.4 | 4.4 | 3.5 | 5.2 | 3.5 |
| Q4 | 2.3 | 3.2 | 4.3 | 4.3 | 3.4 | 5.3 | 3.4 |
| 2001 Q1 | 2.1 | 3.1 | 4.2 | 4.1 | 3.2 | 5.1 | 3.3 |
| Q2 | 2.1 | 3.0 | 4.0 | 4.0 | 3.1 | 5.0 | 3.2 |
| Q3 | 2.1 | 3.0 | 3.9 | 3.9 | 3.1 | 4.9 | 3.1 |
| Q4 | 2.0 | 3.0 | 3.8 | 4.0 | 3.1 | 4.8 | 3.2 |
| 2002 Q1 | 2.0 | 3.0 | 3.7 | 3.9 | 3.1 | 4.7 | 3.1 |
| Q2 | 2.0 | 3.0 | 3.7 | 3.9 | 3.1 | 4.6 | 3.1 |
| Q3 | 2.0 | 3.0 | 3.6 | 3.8 | 3.1 | 4.4 | 3.1 |
| Q4 | 1.9 | 2.9 | 3.6 | 3.8 | 3.0 | 4.4 | 3.1 |
| 2003 Q1 | 1.9 | 2.9 | 3.5 | 3.8 | 3.0 | 4.3 | 3.1 |
| Q2 | 1.9 | 3.0 | 3.5 | 3.8 | 3.1 | 4.3 | 3.1 |
| Q3 | 1.9 | 2.9 | 3.4 | 3.8 | 3.0 | 4.3 | 3.1 |

Note: Quarterly claimant count figures relate to the average of the three months in each quarter.

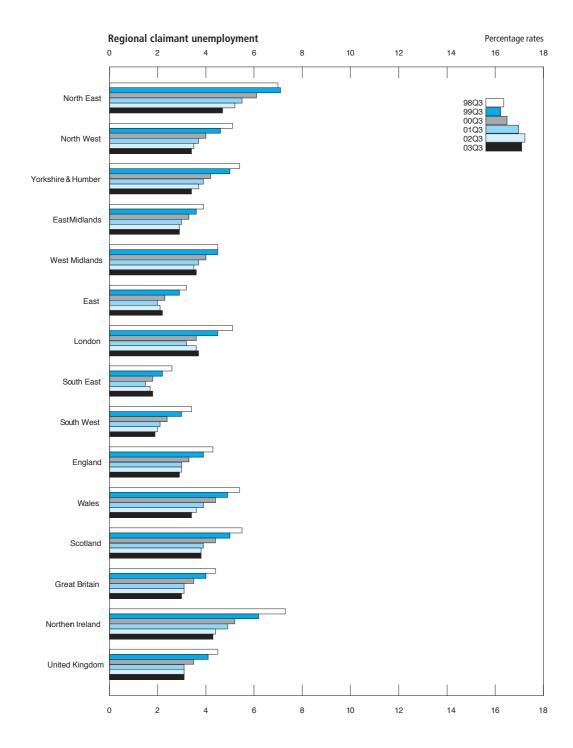
the effect of the change in benefit regulations for under 18 year olds from September 1988. (See pages 398 - 400 of the November 1995 Labour Market Trends.) The denominators used to calculate claimant count rates are the sum of the appropriate mid-year estimates of employee jobs, the self- employed, Government-supported trainees, HM Forces and claimants of unemployment-related benefits. The 2001 and 2002 rates are based on mid-2001 estimates and earlier years are based on the corresponding mid-year estimates.

3 Includes Merseyside.

¹ Government Office Regions came into effect in April 1994. It was decided that from May 1997 sub-national data should be published for these areas rather than standard statistical regions (SSRs). Data by standard statistical regions are available on request.

regions are available on request.

2 The seasonally adjusted figures now relate only to claimants aged 18 or over in order to maintain the consistent series, available back to 1971 for Great Britain, Northern Ireland and the United Kingdom (1974 for Wales and Scotland; 1986 for the Government Office Regions), allowing for



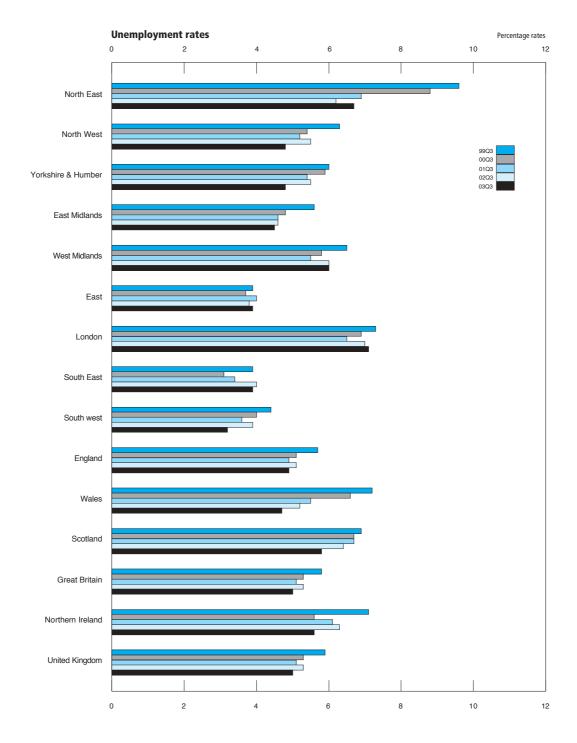
4.5A Unemployment rates^{1,2} By Government Office Region

Percentages, seasonally adjusted⁴

| | North East | North West ³ | Yorkshire and the Humber | East Midlands | West Midlands | East | London | South East |
|-----------|------------|-------------------------|--------------------------------|------------------|------------------|------|--------|------------|
| Quarterly | | | | | | | | |
| | YCNC | YCND | YCNE | YCNF | YCNG | YCNH | YCNI | YCNJ |
| 1997 Q1 | 9.8 | 7.0 | 7.9 | 6.1 | 7.1 | 6.1 | 10.2 | 5.2 |
| Q2 | 9.8 | 7.1 | 7.5 | 5.9 | 6.8 | 6.3 | 9.2 | 5.3 |
| Q3 | 8.7 | 7.2 | 7.3 | 5.1 | 7.2 | 5.5 | 9.1 | 4.8 |
| Q4 | 8.4 | 6.9 | 7.1 | 5.3 | 6.5 | 5.3 | 9.1 | 4.5 |
| 1998 Q1 | 8.4 | 6.7 | 7.1 | 5.2 | 6.2 | 5.4 | 8.1 | 4.4 |
| Q2 | 8.2 | 6.9 | 7.3 | 4.9 | 5.9 | 4.9 | 8.4 | 4.4 |
| Q3 | 8.3 | 6.7 | 7.1 | 5.4 | 6.1 | 4.5 | 7.7 | 4.5 |
| Q4 | 9.7 | 7.0 | 7.0 | 4.9 | 6.5 | 4.3 | 7.5 | 3.9 |
| 1999 Q1 | 9.5 | 6.7 | 6.7 | 5.1 | 7.0 | 4.2 | 7.7 | 3.9 |
| Q2 | 9.5 | 6.3 | 6.3 | 5.3 | 6.9 | 4.3 | 7.4 | 4.0 |
| Q3 | 9.6 | 6.3 | 6.0 | 5.6 | 6.5 | 3.9 | 7.3 | 3.9 |
| Q4 | 8.5 | 6.0 | 6.0 | 5.5 | 6.7 | 4.2 | 6.9 | 4.0 |
| 2000 Q1 | 8.9 | 6.1 | 6.4 | 5.1 | 6.1 | 3.9 | 7.5 | 3.5 |
| Q2 | 8.8 | 5.4 | 6.1 | 4.8 | 6.1 | 3.6 | 7.3 | 3.3 |
| Q3 | 8.8 | 5.4 | 5.9 | 4.8 | 5.8 | 3.7 | 6.9 | 3.1 |
| Q4 | 7.9 | 5.3 | 6.1 | 4.7 | 5.9 | 3.6 | 6.7 | 3.4 |
| 2001 Q1 | 7.7 | 5.3 | 5.3 | 4.7 | 5.6 | 3.6 | 6.4 | 3.3 |
| Q2 | 7.3 | 5.4 | 5.4 | 5.0 | 5.4 | 3.5 | 6.1 | 3.2 |
| Q3 | 6.9 | 5.2 | 5.4 | 4.6 | 5.5 | 4.0 | 6.5 | 3.4 |
| Q4 | 7.3 | 5.3 | 5.1 | 4.6 | 5.5 | 3.9 | 7.2 | 3.3 |
| 2002 Q1 | 7.3 | 5.4 | 5.0 | 4.7 | 5.6 | 3.7 | 6.8 | 3.5 |
| Q2 | 6.3 | 5.6 | 5.2 | 4.5 | 5.5 | 3.7 | 6.7 | 3.8 |
| Q3 | 6.2 | 5.5 | 5.5 | 4.6 | 6.0 | 3.8 | 7.0 | 4.0 |
| Q4 | 7.5 | 5.0 | 5.1 | 4.8 | 5.6 | 3.9 | 6.5 | 4.0 |
| 2003 Q1 | 6.4 | 5.0 | 5.1 | 4.1 | 6.0 | 4.6 | 6.8 | 3.9 |
| Q2 | 6.0 | 4.9 | 5.1 | 4.3 | 5.6 | 4.0 | 7.1 | 3.9 |
| Q3 | 6.7 | 4.8 | 4.8 | 4.5 | 6.0 | 3.9 | 7.1 | 3.9 |

| | South West | England | Wales | Scotland | Great Britain | Northern Ireland | United Kingdom |
|-----------|------------|---------|-------|----------|------------------|---------------------|-------------------|
| Quarterly | | | | | | | |
| | YCNK | YCNL | YCNM | YCNN | YCNO | ZSFB | MGSX |
| 1997 Q1 | 5.7 | 7.1 | 7.8 | 8.5 | 7.3 | 8.7 | 7.3 |
| Q2 | 5.8 | 6.9 | 8.3 | 8.6 | 7.1 | 8.0 | 7.2 |
| Q3 | 5.1 | 6.6 | 7.4 | 8.1 | 6.8 | 8.4 | 6.8 |
| Q4 | 5.1 | 6.4 | 6.9 | 7.4 | 6.5 | 8.8 | 6.5 |
| 1998 Q1 | 4.6 | 6.1 | 7.2 | 7.6 | 6.3 | 8.5 | 6.3 |
| Q2 | 4.7 | 6.1 | 7.1 | 7.4 | 6.2 | 6.8 | 6.3 |
| Q3 | 4.9 | 6.0 | 7.4 | 7.6 | 6.2 | 7.9 | 6.2 |
| Q4 | 4.5 | 5.9 | 7.1 | 7.7 | 6.1 | 6.9 | 6.1 |
| 1999 Q1 | 4.8 | 5.9 | 7.2 | 7.4 | 6.1 | 7.1 | 6.2 |
| Q2 | 4.5 | 5.8 | 7.5 | 7.1 | 6.0 | 7.5 | 6.0 |
| Q3 | 4.4 | 5.7 | 7.2 | 6.9 | 5.8 | 7.1 | 5.9 |
| Q4 | 4.2 | 5.5 | 7.2 | 7.1 | 5.8 | 6.8 | 5.8 |
| 2000 Q1 | 4.2 | 5.5 | 6.7 | 7.6 | 5.7 | 6.5 | 5.8 |
| Q2 | 4.3 | 5.3 | 6.1 | 7.0 | 5.5 | 6.6 | 5.5 |
| Q3 | 4.0 | 5.1 | 6.6 | 6.7 | 5.3 | 5.6 | 5.3 |
| Q4 | 3.9 | 5.1 | 5.8 | 6.3 | 5.2 | 6.2 | 5.2 |
| 2001 Q1 | 3.9 | 4.9 | 6.1 | 6.0 | 5.0 | 6.1 | 5.1 |
| Q2 | 3.6 | 4.8 | 6.1 | 6.2 | 5.0 | 5.9 | 5.0 |
| Q3 | 3.6 | 4.9 | 5.5 | 6.7 | 5.1 | 6.1 | 5.1 |
| Q4 | 3.6 | 5.0 | 5.9 | 6.8 | 5.2 | 6.0 | 5.2 |
| 2002 Q1 | 3.4 | 4.9 | 5.7 | 6.6 | 5.1 | 6.0 | 5.1 |
| Q2 | 3.7 | 5.0 | 5.7 | 6.4 | 5.1 | 5.4 | 5.1 |
| Q3 | 3.9 | 5.1 | 5.2 | 6.4 | 5.3 | 6.3 | 5.3 |
| Q4 | 4.0 | 5.0 | 5.3 | 6.2 | 5.1 | 5.6 | 5.1 |
| 2003 Q1 | 3.8 | 5.0 | 4.8 | 5.9 | 5.1 | 5.1 | 5.1 |
| Q2 | 3.5 | 4.9 | 4.6 | 5.5 | 5.0 | 5.2 | 5.0 |
| Q3 | 3.2 | 4.9 | 4.7 | 5.8 | 5.0 | 5.6 | 5.0 |

¹ The data in this table have been adjusted to reflect the 2001 Census popu- 2 Data are from the Labour Force Survey. Unemployment rate is the percentage 2 Data are from the Labour Porce survey. Orientployment had is the percentage of economically active people who are unemployed on the ILO measure.
 3 Includes Merseyside.
 4 Seasonally adjusted estimates are revised in April each year.
 Source: Office for National Statistics; Enquiries 020 7533 6094



Average earnings (including bonuses) **Great Britain**

2000 = 100

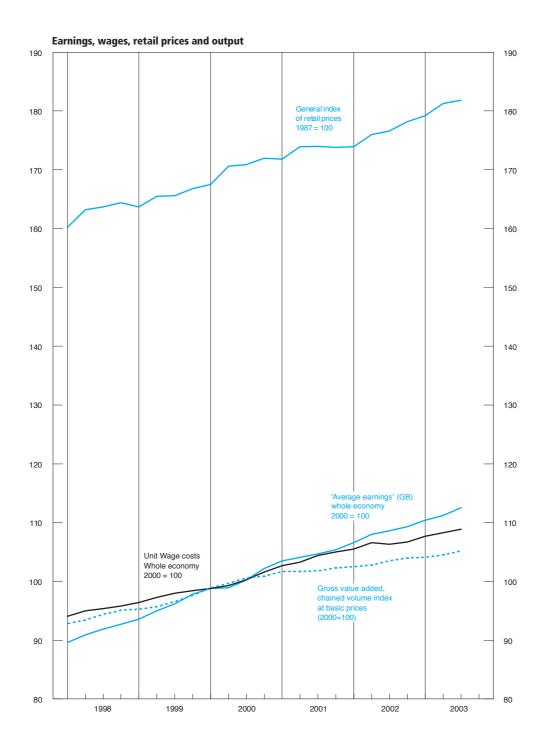
| | Whole economy+ | headline rate ² | Private sector | headline rate ² | Public sector | headline rate ² | Manufact- uring industri- es ³ | headline rate ^{2,3} | Product- ion industri- es | headline rate ² | Service industri- es | headline rate ² | Private sector services | headline rate ² |
|------------------|-----------------------------|-------------------------------|--------------------|-------------------------------|--------------------|-------------------------------|--|------------------------------|------------------------------------|-------------------------------|----------------------------|-------------------------------|-------------------------|-------------------------------|
| Annual | | | 000101 | 1410 | 000101 | 1410 | | | | | | | 00.7.000 | 1410 |
| | LNMQ | | LNKY | | LNNJ | | LNMR | | LNMS | | LNMT | | JJGH | |
| 1999 | 95.7 | | 95.5 | | 96.4 | | 95.6 | | 95.9 | | 95.7 | | 95.4 | |
| 2000 2001 | 100.0 104.4 | | 100.0 104.3 | | 100.0 105.0 | | 100.0 104.3 | | 100.0 104.2 | | 100.0 104.4 | | 100.0 104.2 | |
| 2002 | 108.2 | | 107.9 | | 109.3 | | 104.3 | | 107.9 | | 108.1 | | 104.2 | |
| Monthly | | | | | | | | | | | | | | |
| 1999 Jan | 93.1 | LNNC 4.4 | 92.7 | LNND 4.6 | 94.6 | LNNE 3.7 | 93.7 | LNNG 3.5 | 94.1 | LNNF 3.5 | 92.9 | LNNH 4.5 | 92.3 | JJGJ 4.8 |
| Feb | 93.7 | 4.4 | 93.5 | 4.6 | 95.2 | 3.9 | 93.8 | 3.5 | 94.2 | 3.4 | 93.7 | 4.6 | 93.4 | 4.9 |
| Mar | 94.1 | 4.5 | 93.8 | 4.7 | 95.4 | 4.2 | 94.2 | 3.6 | 94.6 | 3.5 | 94.1 | 4.7 | 93.7 | 4.9 |
| Apr | 94.4 | 4.5 | 94.2 | 4.5 | 95.2 | 4.4 | 94.5 | 3.5 | 95.0 | 3.4 | 94.2 | 4.6 | 93.9 | 4.7 |
| May Jun | 95.0 95.5 | 4.2 4.5 | 94.7 95.3 | 4.2 4.5 | 96.1 96.6 | 4.5 4.7 | 94.7 95.2 | 3.5 3.5 | 95.1 95.4 | 3.4 3.4 | 95.3 95.7 | 4.3 4.8 | 95.0 95.5 | 4.3 4.8 |
| Jul | 95.8 | 4.6 | 95.6 | 4.7 | 96.5 | 4.5 | 95.7 | 3.5 | 95.9 | 3.4 | 95.9 | 5.1 | 95.7 | 5.3 |
| Aug | 96.2 | 4.9 | 96.1 | 5.1 | 96.8 | 4.2 | 96.2 | 3.7 | 96.5 | 3.5 | 96.2 | 5.4 | 96.0 | 5.8 |
| Sep | 96.6 | 4.7 | 96.4 | 4.9 | 97.2 | 3.9 | 96.5 | 4.0 | 96.7 | 3.8 | 96.7 | 5.1 | 96.4 | 5.4 |
| Oct Nov | 97.3 97.6 | 4.9 5.0 | 97.2 97.5 | 5.2 5.2 | 97.4 97.6 | 3.9 3.9 | 97.1 97.5 | 4.3 4.5 | 97.3 97.6 | 4.0 4.2 | 97.3 97.7 | 5.2 5.2 | 97.1 97.6 | 5.6 5.6 |
| Dec | 98.6 | 5.5 | 98.8 | 5.9 | 97.6 | 3.8 | 98.0 | 5.0 | 98.1 | 4.2 | 98.6 | 5.7 | 98.8 | 6.3 |
| 2000 Jan | 98.8 | 5.8 | 98.8 | 6.3 | 98.9 | 4.0 | 98.9 | 5.4 | 99.2 | 5.1 | 98.9 | 6.1 | 99.0 | 6.7 |
| Feb | 98.7 98.9 | 5.9 | 98.7 98.9 | 6.3 5.9 | 99.5 98.9 | 4.3 4.2 | 98.2 98.4 | 5.3 4.9 | 98.5 98.4 | 5.1 | 98.9 98.9 | 6.1 5.7 | 98.9 99.0 | 6.8 6.3 |
| Mar Apr | 98.7 | 5.5 5.0 | 98.5 | 5.9 | 99.2 | 4.2 | 98.7 | 4.9 | 98.6 | 4.7 4.1 | 98.6 | 5.7 | 98.4 | 5.4 |
| May | 98.8 | 4.5 | 98.6 | 4.7 | 99.2 | 3.7 | 99.5 | 4.6 | 99.5 | 4.2 | 98.6 | 4.4 | 98.4 | 4.7 |
| Jun | 99.2 | 4.1 | 99.0 | 4.2 | 100.0 | 3.6 | 99.3 | 4.6 | 99.3 | 4.2 | 99.0 | 3.9 | 98.8 | 4.0 |
| Jul Aug | 99.5 100.3 | 3.9 4.0 | 99.4 100.3 | 4.0 4.1 | 99.8 100.1 | 3.4 3.4 | 99.9 100.1 | 4.6 4.3 | 99.8 100.1 | 4.3 4.0 | 99.4 100.4 | 3.5 3.8 | 99.2 100.4 | 3.6 3.9 |
| Sep | 100.7 | 4.1 | 100.8 | 4.3 | 100.4 | 3.4 | 100.9 | 4.3 | 100.8 | 4.0 | 100.7 | 4.0 | 100.7 | 4.3 |
| Oct | 101.3 | 4.2 | 101.4 | 4.4 | 100.8 | 3.4 | 101.3 | 4.3 | 101.2 | 4.0 | 101.4 | 4.2 | 101.4 | 4.5 |
| Nov Dec | 101.9 103.3 | 4.3 4.5 | 101.9 103.7 | 4.4 4.6 | 101.4 101.7 | 3.6 3.9 | 102.2 102.7 | 4.6 4.7 | 102.1 102.6 | 4.3 4.4 | 101.9 103.4 | 4.2 4.5 | 101.9 103.9 | 4.4 4.7 |
| 2001 Jan | 103.2 | 4.6 | 103.4 | 4.7 | 102.2 | 3.8 | 102.7 | 4.5 | 102.7 | 4.2 | 103.3 | 4.6 | 103.6 | 4.7 |
| Feb | 103.6 | 4.8 | 103.7 | 4.9 | 102.6 | 3.6 | 103.4 | 4.7 | 103.7 | 4.5 | 103.8 | 4.8 | 104.0 | 5.0 |
| Mar | 103.7 | 4.8 | 103.7 | 4.8 | 103.3 | 3.6 | 103.5 | 4.8 | 103.3 | 4.6 | 103.8 | 4.8 | 103.8 | 4.9 |
| Apr | 103.9 | 5.1 | 103.9 | 5.1 | 104.6 | 4.3 | 103.9 | 5.2 | 103.7 | 5.1 | 103.9 | 5.1 | 103.8 | 5.1 |
| May Jun | 104.0 104.3 | 5.2 5.3 | 103.8 104.1 | 5.2 5.3 | 105.0 105.3 | 5.2 5.5 | 104.1 104.3 | 5.0 5.0 | 104.0 104.1 | 4.9 4.8 | 103.9 104.2 | 5.2 5.3 | 103.6 103.9 | 5.2 5.3 |
| Jul | 104.4 | 5.1 | 104.2 | 5.1 | 105.6 | 5.6 | 104.4 | 4.7 | 104.3 | 4.6 | 104.3 | 5.2 | 103.9 | 5.1 |
| Aug | 104.8 | 4.9 | 104.6 | 4.8 | 106.0 | 5.6 | 104.8 | 4.7 | 104.6 | 4.6 | 104.8 | 4.9 | 104.4 | 4.6 |
| Sep Oct | 105.0 105.1 | 4.6 4.2 | 104.8 104.9 | 4.4 3.9 | 106.0 106.4 | 5.7 5.7 | 105.2 105.2 | 4.5 4.3 | 105.0 105.1 | 4.4 4.2 | 104.9 105.0 | 4.5 4.1 | 104.5 104.7 | 4.2 3.6 |
| Nov | 105.1 | 3.8 | 104.9 | 3.5 | 106.4 | 5.4 | 105.2 | 3.7 | 105.1 | 3.6 | 105.0 | 3.7 | 104.7 | 3.2 |
| Dec | 105.8 | 3.1 | 105.6 | 2.8 | 106.8 | 5.2 | 105.4 | 3.1 | 105.2 | 3.1 | 105.7 | 3.0 | 105.3 | 2.4 |
| 2002 Jan Feb | 106.3 | 2.9 2.8 | 106.1 | 2.5 2.4 | 107.0 107.2 | 4.9 | 105.9 | 2.9 2.8 | 105.8 106.0 | 2.8 2.6 | 106.3 | 2.7 2.8 | 106.0 | 2.1 2.2 |
| Mar | 106.9 106.7 | 3.0 | 106.7 106.4 | 2.4 | 107.2 | 4.7 4.5 | 106.0 106.4 | 2.8 | 106.5 | 2.8 | 107.1 106.6 | 2.9 | 107.0 105.9 | 2.4 |
| Apr | 108.0 | 3.3 | 108.1 | 3.2 | 108.3 | 4.1 | 107.4 | 2.9 | 107.2 | 2.9 | 108.0 | 3.3 | 108.1 | 3.0 |
| May Jun | 107.9 108.2 | 3.5 3.8 | 107.8 108.0 | 3.5 3.9 | 108.7 109.0 | 3.8 3.5 | 107.7 108.1 | 3.2 3.5 | 107.6 108.0 | 3.3 3.5 | 107.9 108.2 | 3.5 3.9 | 107.7 108.0 | 3.4 4.0 |
| Jul | 108.4 | 3.8 | 108.2 | 3.8 | | 3.6 | 108.3 | 3.6 | 108.2 | 3.7 | 108.3 | 3.9 | 108.0 | 3.9 |
| Aug | 108.6 | 3.7 | 108.5 [†] | 3.8 | 109.1 [†] | 3.4 | 108.8 | 3.7 | 108.7 | 3.8 | 108.5 | 3.7 | 108.2 | 3.8 |
| Sep | 108.8 | 3.7 | 108.5 | 3.7 | 110.1 | 3.6 | 108.8 [†] | 3.6 | 108.7 | 3.7 | 108.7 [†] | 3.7 | 108.3 | 3.7 |
| Oct | 109.1 | 3.7 | 108.7 | 3.6 | 111.0 | 3.7 | 109.3 | 3.7 | 109.2 | 3.8 | 109.0 | 3.7 | 108.4 [†] | |
| Nov Dec | 109.5 109.4 | 3.8 3.8 | 109.1 108.7 | 3.7 3.5 | 111.6 112.1 | 4.3 4.7 | 109.5 109.9 | 3.8 [†] 4.1 | 109.4 109.8 | 3.9 4.1 | 109.5 108.9 | 3.9 3.7 | 108.8 107.8 | 3.7 3.3 |
| 2003 Jan | 109.8 | 3.6 | 109.2 | 3.3 | 112.4 | 5.0 | 109.9 | 4.0 | 109.8 | 4.1 | 109.6 | 3.4 | 108.6 | 2.9 |
| Feb | 109.9 | 3.2 | 109.3 | 2.8 | 112.8 | 5.1 | 110.7 | 4.1 | 110.6 | 4.1 | 109.8 | 2.9 | 108.7 | 2.2 |
| Mar Apr | 111.4 110.8 | 3.5 | 110.8 110.2 | 3.2 | 113.4 113.9 | 5.1 5.1 | 113.3 110.2 | 4.9 | 113.1 110.2 | 4.8 | 110.9 110.9 | 3.2 | 109.8 110.0 | 2.6 2.3 |
| Apr May | 111.3 | 3.3 3.4 | 110.2 | 2.8 3.0 | 113.9 | 5.1 4.9 | 110.2 | 4.5 4.1 | 111.2 | 4.5 4.1 | 111.5 | 3.1 3.3 | 110.0 | 2.3 |
| Jun | 111.6 | 3.0 | 110.9 | 2.4 | 114.8 | 5.1 | 111.3 | 2.9 | 111.3 | 3.0 | 111.8 | 3.1 | 110.7 | 2.4 |
| Jul | 112.3 112.4 [†] | 3.3 | 111.7 | 2.9 | 115.4 | 5.1 | 111.8 | 3.1 | 111.6 111.8 [†] | 3.1 | 112.5 | 3.5 | 111.6 | 2.9 |
| Aug Sep | 112.4 | 3.4 3.6 | 111.5 112.1 | 2.9 3.1 | 115.6 116.1 | 5.6 5.6 | 111.9 112.5 | 3.0 3.2 | 111.8 | 3.0 3.1 [†] | 112.6 113.0 | 3.7 3.9 [†] | 111.5 111.9 | 3.0 3.2 [†] |
| Oct ¹ | 113.2 | 3.6 | 112.4 | | 116.1 | 5.4 | 112.8 | 3.2 | 112.6 | 3.1 | 113.2 | 3.8 | 112.1 | 3.2 |

² The headline rate is the change in the average seasonally adjusted index values for the last 3 months compared with the same period a year ago.

Previously, the headline rate was centred on the middle month of the three under consideration. The new presentation aligns the average with the last month of the three.

³ ONS regrets that the series have been withdrawn for the period 1963-1982, owing to an irregularity.

Source: Office for National Statistics; Enquiries 01633 816024



Productivity and Unit Wage costs¹ United Kingdom

2000 = 100

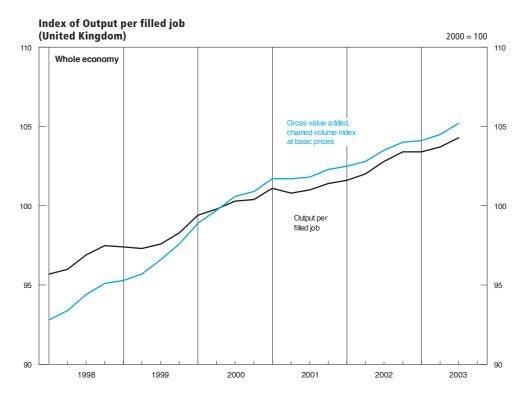
| | F | Productivity job | os | Ou | tput per lled j | ob ² | Outp | ut per hour wo | rked ³ | Unit wa | ge costs |
|---------------|--------------------|-----------------------------|----------------------------------|--------------------|-----------------------------|----------------------------------|--------------------|-----------------------------|----------------------------------|--------------------|----------------------------------|
| | Whole economy | Total production industries | Manufact- uring industries | Whole | Total production industries | Manufact- uring industries | Whole | Total production inductries | Manufact- uring industries | Whole | Manufact- uring industries |
| Annual | LAINIA | LNOT | LNOK | LAININI | I NINIVA/ | LAINIV | 1.7\/D | 1.71/// | 1.71/5 | LAINIZ | LNING |
| 2000 | LNNM 100.0 | LNOJ 100.0 | LNOK 100.0 | LNNN 100.0 | LNNW 100.0 | LNNX 100.0 | LZVB 100.0 | LZVK 100.0 | LZVF 100.0 | LNNK 100.0 | LNNQ 100.0 |
| 2001 | 100.8 | 96.0 | 95.5 | 101.1 | 102.5 | 103.3 | 100.9 | 103.1 | 103.7 | 103.8 | 101.0 |
| 2002 | 100.7 | 91.6 | 90.7 | 102.5 | 104.5 | 104.8 [†] | 102.5 [†] | 104.8 | 104.6 [†] | 106.3 [†] | 103.0 |
| Quarterly | | | | | | | | | | | |
| 2000 Q1 | 99.4 | 101.3 | 101.5 | 99.4 | 98.3 | 97.8 | 99.9 | 98.1 | 97.5 | 98.8 | 100.7 |
| Q2 | 99.9 | 100.5 | 100.5 | 99.8 | 99.6 | 99.3 | 99.6 | 99.2 | 98.9 | 99.3 | 99.8 |
| Q3 | 100.2 | 99.6 | 99.5 | 100.3 | 100.4 | 100.5 | 100.5 | 100.2 | 100.4 | 100.3 | 99.8 |
| Q4 | 100.4 | 98.6 | 98.5 | 100.4 | 101.7 | 102.4 | 100.1 | 102.5 | 103.2 | 101.6 | 99.7 |
| 2001 Q1 | 100.6 | 97.6 | 97.3 | 101.1 | 102.5 | 103.5 | 100.8 | 103.2 | 104.1 | 102.7 | 99.7 |
| Q2 | 100.8 100.8 | 96.6 95.3 | 96.2 94.8 | 100.8 101.0 | 102.2 | 102.6 104.0 | 100.4 | 102.2 102.8 | 102.5 103.4 | 103.3 104.4 | 101.5 100.7 |
| Q3 Q4 | 100.8 | 95.3 | 93.8 | 101.4 | 103.1 102.2 | 104.0 | 100.8 101.8 | 104.4 | 103.4 | 104.4 | 100.7 |
| 2002 Q1 | 100.9 | 93.2 | 92.3 | 101.6 | 103.0 | 103.8 | 101.5 | 103.2 | 103.4 | 105.5 | 102.2 |
| Q2 | 100.7 | | 91.4 | 102.0 [†] | 104.1 | 103.5 | 102.5 [†] | 105.4 [†] | 104.3 | 106.6 [†] | 104.1 |
| Q3 | 100.7 [†] | 92.2 91.1 [†] | 90.1 | 102.8 | 105.0 [†] | 106.0 [†] | 102.8 | 105.9 | 106.1 | 106.3 | 102.5 |
| Q4 | 100.6 | 90.1 | 89.1 | 103.4 | 105.7 | 106.0 | 103.4 | 104.7 | 104.6 [†] | 106.7 | 103.3 |
| 2003 Q1 | 100.7 | 89.2 | 88.2 | 103.4 | 106.5 | 107.2 | 103.1 | 105.5 | 105.6 | 107.7 | 103.8 |
| Q2 | 100.8 | 88.0 | 86.8 | 103.7 | 108.2 | 109.7 | 103.5 | 109.0 | 109.5 | 108.3 | 101.1 |
| Q3 | 100.8 | 86.8 | 85.8 | 104.3 | 109.6 | 111.1 | 103.2 | 107.8 | 108.8 | 108.9 | 100.8 |
| Monthly | | | | | | | | | | | |
| 2002 Jan | | | 92.6 | | | 102.9 [†] | | | | | 102.9 |
| Feb | | | 92.3 | | | 104.0 | | | | | 102.0 |
| Mar Apr | | | 91.9 91.7 | | | 104.5 104.5 | | | | | 101.8 102.7 |
| May | | | 91.4 | | | 105.9 | | | | | 101.7 |
| Jun | | | 90.9 | | | 100.1 | | | | | 108.0 |
| Jul | | | 90.6 [†] | | | 105.0 | | | | | 103.1 |
| Aug | | | 90.1 | | | 106.5 | | | | | 102.1 |
| Sep | | | 89.6 | | | 106.4 | | | | | 102.2 |
| Oct | | | 89.3 | | | 105.2 | | | | | 103.9 |
| Nov Dec | •• | | 89.1 88.9 | •• | | 106.3 106.6 | | •• | | | 103.0 103.1 |
| | | | | | | | | | | | |
| 2003 Jan | | | 88.6 | | ** | 106.5 | | •• | | | 103.2 |
| Feb | ** | •• | 88.2 | ** | | 107.5 | | | | •• | 103.0 |
| Mar Apr | | | 87.9 87.3 | | | 107.5 109.0 | | | | | 105.3 101.1 |
| May | | | 86.8 | | | 109.6 | | | | | 101.1 |
| Jun | | | 86.4 | | | 110.4 | | | | | 100.8 |
| Jul | | | 86.1 | | | 111.1 | | | | | 100.6 |
| Aug | | | 85.8 | | | 110.9 | | | | | 100.9 |
| Sep | | | 85.5 | | | 111.3 | | | | | 101.0 |
| Oct | | | 85.3 | | | 112.7 | | | | | 100.1 |
| Percentage cl | nange, quarter | on correspond | ding quarter of | f previous yea | ar | | | | | | |
| Quarterly | | | | | | | | | | | |
| • | LNNO | LNNR | LNNS | LNNP | LNNT | LNNU | LZVD | LZVM | LZVH | LOJE | LOJF |
| 2001 Q1 Q2 | 1.2 0.9 | -3.6 -3.9 | -4.1 -4.2 | 1.7 1.1 | 4.3 2.6 | 5.9 3.3 | 0.9 0.9 | 5.2 3.0 | 6.7 3.7 | 3.9 4.1 | -1.1 1.6 |
| Q2 Q3 | 0.9 | -3.9 -4.3 | -4.2 -4.8 | 0.6 | 2.8 | 3.3 3.5 | 0.9 | 2.6 | 2.9 | 4.1 | 1.6 1.0 |
| Q3 Q4 | 0.6 | -4.3 -4.2 | -4.8 | 1.0 | 0.5 | 0.5 | 1.7 | 1.8 | 1.5 | 3.3 | 2.6 |

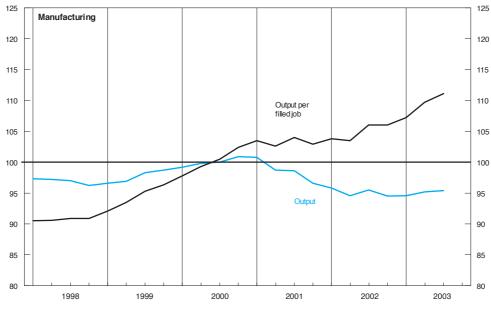
| Quarterly | | | | | | | | | | | |
|-----------|-------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------|------|
| | LNNO | LNNR | LNNS | LNNP | LNNT | LNNU | LZVD | LZVM | LZVH | LOJE | LOJF |
| 2001 Q1 | 1.2 | -3.6 | -4.1 | 1.7 | 4.3 | 5.9 | 0.9 | 5.2 | 6.7 | 3.9 | -1.1 |
| Q2 | 0.9 | -3.9 | -4.2 | 1.1 | 2.6 | 3.3 | 0.9 | 3.0 | 3.7 | 4.1 | 1.6 |
| Q3 | 0.6 | -4.3 | -4.8 | 0.6 | 2.8 | 3.5 | 0.3 | 2.6 | 2.9 | 4.0 | 1.0 |
| Q4 | 0.4 | -4.2 | -4.8 | 1.0 | 0.5 | 0.5 | 1.7 | 1.8 | 1.5 | 3.3 | 2.6 |
| 2002 Q1 | 0.3 | -4.5 | -5.2 | 0.5 | 0.5 [†] | 0.3 [†] | 0.8 | _ | -0.6 | 2.8 | 2.6 |
| Q2 | -0.1 | -4.6 | -5.1 | 1.2 [†] | 1.9 | 0.9 | 2.1 [†] | 3.1 [†] | 1.8 | 3.2† | 2.6 |
| Q3 | -0.2 [†] | -4.4 [†] | −4.9 [†] | 1.8 | 1.9 | 1.9 | 2.0 | 3.0 | 2.7 | 1.8 | 1.7 |
| Q4 | -0.3 | -4.6 | -5.0 | 2.0 | 3.3 | 3.0 | 1.6 | 0.4 | −0.1 ^T | 1.6 | 1.0 |
| 2003 Q1 | -0.2 | -4.3 | -4.4 | 1.8 | 3.3 | 3.3 | 1.5 | 2.2 | 2.1 | 2.1 | 1.6 |
| Q2 | 0.1 | -4.5 | -5.0 | 1.6 | 3.9 | 6.0 | 0.9 | 3.5 | 5.0 | 1.6 | -2.9 |
| Q3 | 0.2 | -4.7 | -4.8 | 1.5 | 4.3 | 4.9 | 0.4 | 1.8 | 2.5 | 2.5 | -1.6 |

¹ The full productivity and unit wage costs data sets with associated articles can be found on the National Statistics web site at www.statistics.gov.uk/productivity
Contact the Labour Market Statistics helpline (020 7533 6094) for further in-

Source: Office for National Statistics; Enquiries 01633 812766

formation.





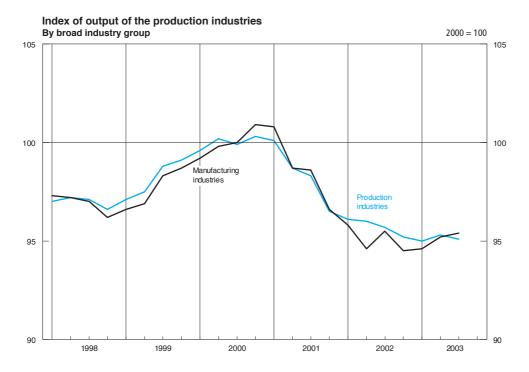
5.1 Output of production industries¹

2000 = 100

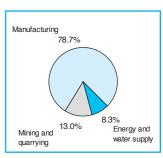
| | | Broad indu | ustry groups | | | By main ir | ndustrial groupings | |
|---------------|------------------------------|---------------------------|--|---------------------------------------|--------------------|-----------------------------|---------------------------|----------------------------------|
| | Total production industries+ | Mining and quarrying | Electricity, gas and water supply | Total manufacturing industries+ | Consumer durables | Consumer non-durables | Capital goods | Intermediate goods and energy |
| 2000 weights | 1 000 | 130 | 83 | 786 | 37 | 258 | 221 | 485 |
| Annual | | | | | | | | |
| 1998 | CKYW 97.0 | CKYX 99.1 | CKYZ 95.3 | CKYY 96.9 | UFIU 95.4 | UFJS 100.3 | UFIL 91.6 | JMOH 98.2 |
| 1999 | 98.1 | 103.3 | 97.9 | 97.6 | 98.4 | 99.6 | 96.5 | 98.2 |
| 2000 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| 2001 2002 | 98.4 95.7 [†] | 94.5 94.4 [†] | 102.4 104.0 [†] | 98.7 95.1 [†] | 102.5 103.8 | 101.2 100.8 [†] | 98.4 90.0 [†] | 96.6 95.0 |
| Quarterly | | | | | | | | |
| 1998 Q1 | 97.0 | 97.9 | 93.6 | 97.3 | 93.6 | 100.6 | 90.9 | 98.5 |
| Q2 | 97.2 | 98.9 | 95.2 | 97.2 | 95.2 | 101.0 | 91.1 | 98.6 |
| Q3 Q4 | 97.1 96.6 | 99.2 100.4 | 95.8 96.6 | 97.0 96.2 | 96.6 96.5 | 100.3 99.4 | 92.0 92.3 | 98.1 97.4 |
| 1999 Q1 | 97.1 | 102.2 | 96.9 | 96.6 | 96.3 | 98.5 | 94.7 | 97.7 |
| Q2 | 97.5 | 103.3 | 97.1 | 96.9 | 97.3 | 99.4 | 95.4 | 97.6 |
| Q3 Q4 | 98.8 99.1 | 104.5 103.0 | 98.4 99.1 | 98.3 98.7 | 99.5 100.4 | 100.2 100.3 | 97.6 98.3 | 98.6 98.8 |
| 2000 Q1 | 99.6 | 103.8 | 98.7 | 99.2 | 100.3 | 100.3 | 98.2 | 99.9 |
| Q2 | 100.2 | 102.4 | 101.0 | 99.8 | 99.9 | 100.4 | 99.5 | 100.4 |
| Q3 Q4 | 99.9 100.3 | 98.9 94.9 | 99.9 100.3 | 100.0 100.9 | 99.8 100.0 | 99.8 99.5 | 100.1 102.2 | 100.0 99.8 |
| 2001 Q1 | 100.1 | 93.3 | 104.5 | 100.8 | 102.8 | 101.2 | 103.2 | 97.9 |
| Q2 | 98.7 | 96.3 | 102.8 | 98.7 | 101.9 | 100.8 | 98.5 | 97.5 |
| Q3 Q4 | 98.3 96.5 | 95.0 93.4 | 101.0 101.2 | 98.6 96.6 | 102.3 103.2 | 101.4 101.4 | 98.1 93.8 | 96.5 94.7 |
| | 96.1 [†] | 94.2 [†] | 101.5 [†] | | 105.2 | | | 95.1 |
| 2002 Q1 Q2 | 96.1 ' 96.0 | 94.21 | 101.51 | 95.8 94.6 | 105.11 | 101.4 101.0 [†] | 90.5 89.3 [†] | 95.1 95.9 |
| Q3 | 95.7 | 90.2 | 106.2 | 95.5 [†] | 102.9 | 101.3 | 90.6 | 94.5 |
| Q4 | 95.2 | 94.0 | 103.6 | 94.5 | 104.1 | 99.5 | 89.5 | 94.8 |
| 2003 Q1 | 95.0 | 93.1 | 101.7 | 94.6 | 99.7 | 99.8 | 90.6 | 94.1 |
| Q2 Q3 | 95.3 95.1 | 90.3 88.0 | 103.3 104.3 | 95.2 95.4 | 101.5 103.5 | 99.9 100.5 | 93.0 92.6 | 93.3 92.8 |
| Monthly | | | | | | | | |
| 2001 Jul | 97.9 | 95.4 | 99.8 | 98.2 | 102.7 | 100.7 | 97.5 | 96.4 |
| Aug | 98.8 | 95.0 | 99.4 | 99.4 | 102.2 | 102.5 | 99.5 | 96.3 |
| Sep Oct | 98.2 96.9 | 94.7 92.8 | 103.7 98.1 | 98.2 97.5 | 101.9 104.4 | 101.1 101.9 | 97.3 95.4 | 96.7 94.4 |
| Nov | 96.4 | 93.0 | 102.2 | 96.4 | 103.6 | 101.5 | 93.5 | 94.6 |
| Dec | 96.2 | 94.3 | 103.2 | 95.8 | 101.6 | 101.0 | 92.5 | 95.0 |
| 2002 Jan | 96.0 | 96.1 [†] | 102.3 | 95.3 [†] | 104.3 [†] | 100.2 [†] | 90.5 [†] | 95.6 |
| Feb Mar | 95.9 [†] 96.3 | 92.8 93.8 | 99.8 [†] 102.4 | 95.9 96.1 | 104.7 106.3 | 102.4 101.5 | 90.0 91.1 | 94.4 95.2 |
| Apr | 96.5 | 96.0 | 102.8 | 95.9 | 106.1 | 102.3 | 90.0 | 95.7 |
| May Jun | 98.2 93.4 | 101.0 100.3 | 106.3 104.6 | 96.8 91.0 | 105.8 97.7 | 102.1 98.6 | 92.9 85.1 | 97.9 94.0 |
| | | | | | | | | |
| Jul Aug | 95.3 96.0 | 87.6 88.0 | 109.2 108.0 | 95.1 96.0 | 101.0 104.0 | 101.4 101.4 | 89.7 92.1 | 94.2 94.2 |
| Sep | 95.8 | 95.1 | 101.5 | 95.4 | 103.9 | 101.3 | 90.1 | 94.9 |
| Oct | 95.0 | 95.8 | 104.1 | 94.0 | 103.2 | 99.5 | 88.3 | 95.1 |
| Nov Dec | 95.1 95.4 | 93.0 93.2 | 102.1 104.7 | 94.7 94.7 | 104.4 104.5 | 99.7 99.2 | 89.6 90.6 | 94.5 94.7 |
| 2003 Jan | 94.5 | 92.6 | 99.4 | 94.3 | 101.4 | 99.3 | 90.1 | 93.5 |
| Feb | 95.4 | 93.3 | 103.8 | 94.8 | 99.8 | 99.8 | 91.1 | 94.6 |
| Mar | 95.0 95.0 | 93.2 90.4 | 102.0 101.0 | 94.6 95.1 | 97.9 100.8 | 100.1 99.2 | 90.7 93.7 | 94.0 92.9 |
| Apr May | 95.0 95.0 | 90.4 | 101.6 | 95.1 95.1 | 100.8 | 100.7 | 93.7 92.0 | 92.9 92.9 |
| Jun | 95.8 | 90.3 | 107.5 | 95.4 | 103.0 | 99.9 | 93.4 | 94.1 |
| Jul | 95.6 | 90.8 | 102.9 | 95.7 | 104.2 | 100.5 | 93.1 | 93.5 |
| Aug Sep | 94.8 95.0 | 87.2 85.9 | 103.1 106.7 | 95.2 95.2 | 101.9 104.5 | 100.4 100.4 | 91.7 93.0 | 92.7 92.2 |
| Oct | 95.9 | 87.4 | 106.7 | 96.2 | 105.0 | 101.4 | 94.1 | 93.1 |

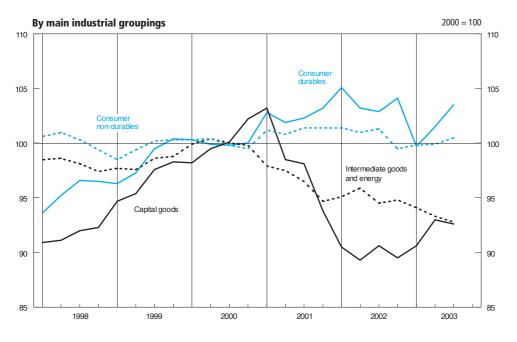
¹ The figures contain, where appropriate, an adjustment for stock changes.

Source: Office for National Statistics; Enquiries 01633 812786

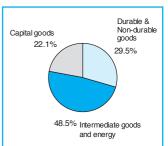


Share of output in 2000





Share of ouput in 2000



Engineering and construction: output and orders Seasonally adjusted Index numbers at constant prices¹

| | | | | Engine | eering (2000 |) =100) | | | | Constr (GB)(20 | |
|---|---|---|--|---|---|--|--|--|---|--|--|
| | | Total | | | Home | | | Export | | | |
| | Orders ² on Hand | New ³ Orders | Turnover | Orders ² on Hand | New ³ Orders | Turnover | Orders ² on Hand | New ³ Orders | Turnover | Gross output+ ⁴ | Orders received |
| Annual | JIQI | IIOH | 110.1 | JIQC | JIQB | IIOD | JIQF | JIQE | JIQG | FEAO | EE A Z |
| 1998 1999 2000 2001 2002 | 81.9 92.0 103.4 94.4 91.7 [†] | JIQH 84.2 91.8 100.0 89.5 80.4 | JIQJ 87.8 91.9 100.0 95.3 84.1 [†] | 79.1 92.8 104.9 104.6 104.2 [†] | 82.5 94.2 100.0 94.5 87.3 [†] | JIQD 88.3 93.5 100.0 98.4 91.1 [†] | 90.8 100.8 77.2 70.5 | 86.4 88.6 100.0 82.9 71.2 [†] | 87.3 89.9 100.0 91.2 74.8 [†] | FEAQ 94.8 [†] 96.2 100.0 102.7 107.6 | FEAZ 108.5 [†] 98.5 100.0 99.2 102.2 |
| Quarterly | | | | | | | | | | | |
| 1998 Q1 Q2 Q3 Q4 | 87.2 87.8 84.9 81.9 | 88.8 85.7 80.6 81.5 | 88.7 87.9 86.9 87.9 | 86.9 86.8 81.1 79.1 | 87.2 84.2 77.0 81.6 | 90.2 87.6 87.6 87.6 | 87.7 89.5 91.2 86.7 | 90.9 87.8 85.5 81.5 | 86.7 88.2 86.0 88.3 | | |
| 1999 Q1 Q2 Q3 Q4 | 83.1 82.4 86.8 92.0 | 88.6 86.8 95.0 96.9 | 90.2 90.6 93.0 93.9 | 79.9 80.6 85.3 92.8 | 88.5 88.7 98.1 101.5 | 91.1 91.3 95.9 95.6 | 88.5 85.3 89.3 90.8 | 88.6 84.2 90.8 90.8 | 89.0 89.8 89.0 91.7 | 92.2 [†] 95.4 98.3 99.0 | |
| 2000 Q1 Q2 Q3 Q4 | 96.2 100.6 102.7 103.4 | 95.9 101.6 100.7 101.8 | 94.1 99.9 101.5 104.5 | 96.6 100.2 101.8 104.9 | 96.2 101.0 99.2 103.6 | 95.1 100.3 101.0 103.6 | 95.7 101.3 104.4 100.8 | 95.5 102.4 102.8 99.4 | 92.8 99.3 102.2 105.7 | 102.3 100.1 98.7 98.9 | |
| 2001 Q1 Q2 Q3 Q4 | 104.4 102.0 99.9 94.4 | 102.1 91.0 86.6 78.5 | 104.4 97.1 92.0 87.8 | 106.2 108.2 107.6 104.6 | 102.2 97.8 91.5 86.4 | 104.7 99.0 96.0 93.9 | 101.3 91.3 86.9 77.2 | 102.0 81.9 79.9 67.8 | 104.2 94.5 86.6 79.6 | 101.0 102.0 102.9 104.8 | 103.1 [†] 90.2 |
| 2002 Q1 Q2 Q3 Q4 | 95.1 [†] 93.9 93.7 91.7 | 82.1 [†] 80.2 81.5 77.9 | 84.4 [†] 84.4 84.6 83.0 | 105.5 [†] 105.8 106.2 104.2 | 87.9 [†] 88.1 88.5 84.5 | 90.8 [†] 91.3 91.7 90.7 | 77.4 [†] 73.8 72.6 70.5 | 74.2 [†] 69.6 72.2 69.0 | 76.0 [†] 75.1 75.2 72.9 | 103.3 107.0 107.8 109.2 | 108.0 89.5 109.2 102.1 |
| 2003 Q1 Q2 Q3 | 90.2 91.6 91.9 | 78.3 82.4 81.3 | 82.7 83.7 83.7 | 103.0 105.1 107.0 | 88.7 93.0 92.8 | 93.9 94.1 94.2 | 68.6 68.6 66.3 | 64.4 68.2 65.9 | 68.0 69.9 70.0 | 106.4 112.4 114.5 | 104.5 95.6 93.3 |
| Monthly | | | | | | | | | | | |
| 2001 Jul Aug Sep Oct Nov Dec | 101.6 100.2 99.9 98.2 93.6 94.4 | 86.8 85.7 87.2 80.3 69.4 85.7 | 91.1 93.6 91.2 89.3 88.5 85.6 | 107.8 106.7 107.6 105.4 99.7 104.6 | 89.7 89.2 95.6 82.4 69.4 107.4 | 95.0 97.3 95.8 94.5 94.8 92.4 | 91.0 89.2 86.9 86.0 83.1 77.2 | 82.8 81.0 75.9 77.5 69.4 56.4 | 85.8 88.7 85.2 82.4 80.1 76.4 | | 95.4 [†] 119.0 95.0 93.6 94.6 82.4 |
| 2002 Jan Feb Mar Apr May Jun | 94.7 [†] 95.9 95.1 94.7 94.3 93.9 | 81.5 [†] 85.7 79.0 81.4 82.5 76.6 | 84.1 84.3 [†] 84.8 85.6 87.0 80.6 | 104.3 [†] 105.6 105.5 105.4 105.9 105.8 | 84.2 [†] 92.1 87.5 89.1 92.5 82.8 | 90.0 [†] 90.7 91.6 93.3 94.1 86.6 | 78.5 [†] 79.5 77.4 76.7 74.6 73.8 | 78.0 [†] 77.2 67.5 71.2 69.2 68.3 | 76.3 [†] 75.9 75.7 75.3 77.5 72.6 | | 94.1 104.6 125.2 82.2 96.0 90.4 |
| Jul Aug Sep Oct Nov Dec | 94.4 94.8 93.7 93.9 91.3 91.7 | 83.8 81.9 78.8 80.5 71.1 82.0 | 84.8 83.6 85.4 82.5 83.0 83.4 | 106.0 107.9 106.2 105.5 102.7 104.2 | 88.3 95.2 82.0 83.5 76.1 94.0 | 91.0 91.6 92.4 89.8 90.2 92.0 | 74.8 72.5 72.6 74.4 71.9 70.5 | 77.8 64.1 74.6 76.5 64.4 66.0 | 76.6 73.0 76.1 72.9 73.6 72.1 | | 113.3 99.9 114.4 92.6 92.0 121.7 |
| 2003 Jan Feb Mar Apr May Jun | 91.3 91.2 90.2 93.8 92.5 91.6 | 78.8 80.3 75.8 93.8 76.6 76.8 | 83.0 83.5 81.7 84.1 84.1 82.8 | 102.2 103.2 103.0 108.4 106.3 105.1 | 82.7 96.0 87.3 111.7 83.6 83.8 | 94.2 95.7 91.8 94.7 95.6 92.0 | 72.8 70.7 68.6 69.1 69.1 68.6 | 73.5 59.3 60.3 69.8 67.3 67.4 | 68.2 67.3 68.5 70.1 69.0 70.7 | | 110.3 112.8 90.5 111.1 89.4 86.2 |
| Jul Aug Sep Oct | 92.2 92.1 91.9 92.5 | 84.8 79.3 79.8 84.7 | 85.4 82.5 83.3 85.4 | 105.1 106.5 107.0 107.4 | 92.4 94.4 91.6 94.1 | 96.3 92.6 93.6 96.6 | 70.4 67.6 66.3 67.2 | 74.5 59.0 64.1 72.0 | 71.0 69.1 69.8 70.7 | | 111.6 80.8 87.4 88.4 |

¹ The figures shown represent the output of United Kingdom based manufac-

maintenance estimates, unrecorded output by self-employed workers and small firms and output by the direct labour departments of the public sector.

Sources: Office for National Statistics; Enquiries Columns 1-9 01633 812540;

Department of Trade and Industry;

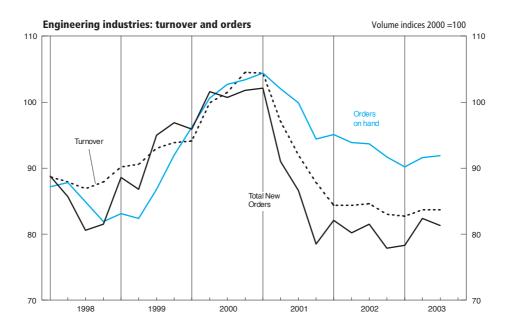
Enquiries Columns 10-11 020 7890 5583

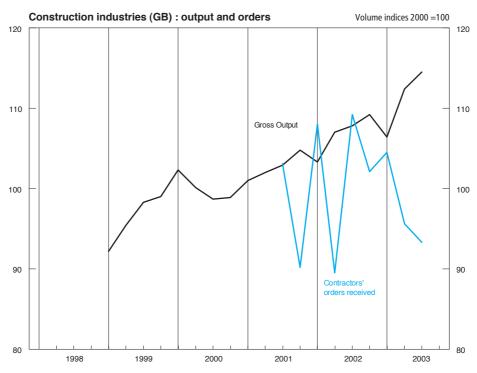
turers classified to Subsections DK and DL of the Standard Industrial Classification (2003).

For Orders on Hand, the annual and quarterly index values represent the value at the end of the period in question, rather than the average value for that period, so the annual value shown for 2000 may not equal 100.

³ Net of cancellations.

⁴ This index is based upon a gross output series which includes repair and





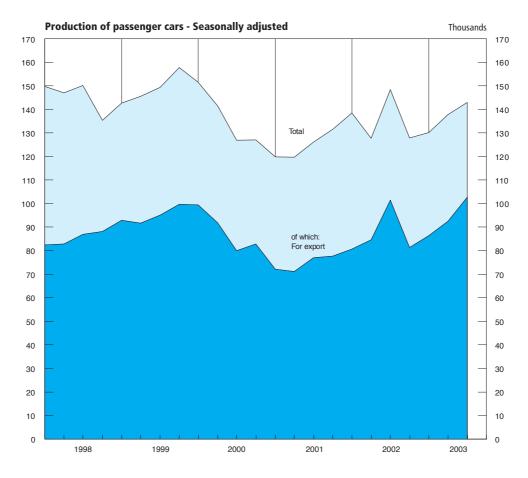
Motor vehicle and steel production

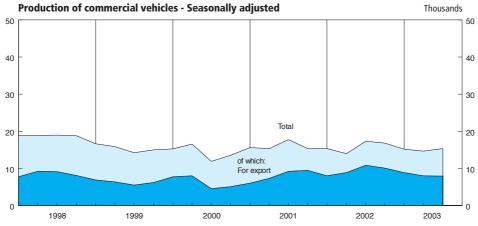
| | | Passeng | jer cars ¹ | | | Commercia | al vehicles ¹ | | |
|------------|------------------------------|---------------------------------------|------------------------------|---------------------------------------|------------------------------|---------------------------------------|------------------------------|---------------------------------------|--|
| | Not season | ally adjusted | Seasonally | adjusted ⁴ | Not season | ally adjusted | Seasonally | adjusted ⁴ | Crude steel |
| | Total production (thousands) | of which for export (thousands) | production (NSA) ² (thousand tonnes) |
| Annual | | FEAR | 5540 | 5545 | 5540 | FFAD | 5540 | 5545 | 2020 |
| 1998 | FFAA 145.7 | FFAB 85.1 | FFAO 145.6 | FFAP 85.1 | FFAC 18.9 | FFAD 8.6 | FFAQ 18.9 | FFAR 8.5 | BCBS 17 318.1 |
| 1999 | 148.9 | 94.9 | 148.9 | 94.9 | 15.5 | 6.2 | 15.5 | 6.2 | 16 283.8 |
| 2000 | 136.8 | 88.6 | 136.8 | 88.6 | 14.3 | 6.3 | 14.4 | 6.4 | 15 154.6 |
| 2001 | 124.4 | 74.5 | 124.4 | 74.5 | 16.1 | 8.0 | 16.1 | 8.0 | 13 542.7 |
| 2002 | 135.7 | 87.2 | 135.7 | 87.1 | 15.9 | 9.5 | 15.9 | 9.5 | 11 667.1 |
| Quarterly | | | | | | | | | |
| 1999 Q1 | 153.5 | 97.6 | 142.8 | 93.0 | 17.8 | 7.5 | 16.7 | 6.9 | 4 126.5 |
| Q2 | 149.6 | 97.7 | 145.6 | 91.7 | 16.8 | 6.6 | 15.9 | 6.4 | 4 376.9 |
| Q3 Q4 | 135.9 156.5 | 76.7 107.5 | 149.4 157.8 | 95.1 99.7 | 12.1 15.3 | 4.4 6.4 | 14.3 15.0 | 5.5 6.2 | 4 054.9 3 725.5 |
| 2000 Q1 | 164.8 | 105.0 | 151.6 | 99.5 | 16.7 | 8.4 | 15.3 | 7.8 | 4 442.5 |
| Q2 | 144.4 | 97.6 | 141.5 | 91.9 | 17.3 | 8.2 | 16.6 | 8.0 | 4 019.8 |
| Q3 | 111.7 | 63.2 | 127.0 | 80.1 | 9.5 | 3.5 | 11.9 | 4.6 | 3 288.7 |
| Q4 | 126.3 | 88.6 | 127.1 | 82.9 | 13.7 | 5.2 | 13.6 | 5.1 | 3 403.6 |
| 2001 Q1 | 129.0 | 75.5 | 119.9 | 72.1 | 17.2 | 6.6 | 15.6 | 6.0 | 3 651.7 |
| Q2 | 124.1 | 76.5 | 119.8 | 71.2 | 16.6 | 7.7 | 15.4 | 7.3 | 3 729.6 |
| Q3 Q4 | 111.9 132.4 | 61.0 85.1 | 126.1 131.6 | 77.0 77.8 | 14.5 16.1 | 7.4 10.3 | 17.8 15.4 | 9.2 9.5 | 3 205.5 2 955.9 |
| 2002 Q1 | 149.9 | 85.0 | 138.6 | 80.7 | 16.7 | 8.4 | 15.4 | 8.0 | 3 046.3 |
| Q2 | 133.5 | 93.8 | 127.8 | 84.7 | 14.8 | 9.4 | 14.0 | 8.9 | 3 060.0 |
| Q3 | 130.6 | 80.7 | 148.4 | 101.5 | 14.9 | 9.3 | 17.4 | 10.9 | 2 801.9 |
| Q4 | 128.7 | 89.3 | 127.9 | 81.4 | 17.3 | 10.9 | 16.8 | 10.1 | 2 758.9 |
| 2003 Q1 | 141.5 | 91.3 | 130.2 | 86.4 [†] | 16.5 | 9.3 | 15.2 [†] | 8.9 [†] | 3 115.9 |
| Q2 | 144.4 | 101.3 | 137.9 ^T | 92.5 | 15.5 | 8.3 | 14.7 | 8.0 | 3 293.6 |
| Q3 | 130.4 | 85.8 | 143.0 | 102.7 | 13.4 | 6.9 | 15.4 | 7.9 | 3 281.4 |
| Monthly | | | | | | | | | |
| 2001 Jul | 114.9 | 63.9 | 122.2 | 74.8 | 14.1 | 7.6 | 15.6 | 8.8 | 985.5 |
| Aug | 89.3 131.6 | 45.5 73.6 | 129.1 127.0 | 80.4 75.9 | 12.0 17.3 | 6.0 8.7 | 21.3 16.6 | 9.8 9.0 | 1 165.3 1 054.7 |
| Sep Oct | 146.0 | 73.6 92.8 | 133.3 | 78.3 | 17.3 17.6 | 10.9 | 15.6 | 9.5 | 1 231.8 |
| Nov | 145.0 | 93.1 | 124.4 | 77.0 | 17.6 | 11.5 | 15.2 | 9.7 | 913.5 |
| Dec | 106.1 | 69.3 | 137.1 | 78.0 | 13.0 | 8.5 | 15.4 | 9.4 | 810.6 |
| 2002 Jan | 154.4 | 84.9 | 145.1 | 82.3 | 16.7 | 8.4 | 15.6 | 8.5 | 1 119.7 |
| Feb | 147.6 | 81.8 | 139.5 | 83.0 | 17.4 | 7.4 | 15.9 | 7.0 | 960.5 |
| Mar | 147.8 129.5 | 88.4 93.5 | 131.1 137.8 | 76.8 90.0 | 15.9 16.5 | 9.5 | 14.6 16.0 | 8.5 10.1 | 966.1 1 003.4 |
| Apr May | 158.2 | 109.0 | 142.7 | 89.5 | 15.8 | 11.1 9.9 | 15.6 | 9.7 | 1 204.9 |
| Jun | 112.8 | 78.9 | 103.0 | 74.7 | 12.2 | 7.3 | 10.5 | 7.0 | 851.7 |
| Jul | 134.5 | 84.9 | 137.3 | 92.9 | 15.2 | 9.9 | 16.4 | 10.9 | 1 082.0 |
| Aug | 112.8 | 67.0 | 173.3 | 124.1 | 9.8 | 6.1 | 17.5 | 10.3 | 805.4 |
| Sep Oct | 144.5 | 90.3 98.0 | 134.6 132.6 | 87.5 83.6 | 19.8 | 11.9 | 18.4 17.6 | 11.5 | 914.5 |
| Nov | 149.7 138.8 | 98.7 | 126.7 | 82.5 | 19.8 18.8 | 12.5 11.2 | 16.9 | 11.1 9.7 | 1 116.5 846.0 |
| Dec | 97.5 | 71.2 | 124.4 | 78.2 | 13.4 | 9.0 | 16.0 | 9.6 | 796.4 |
| 2003 Jan | 136.1 | 85.2 | 125.2 [†] | 79.7 [†] | 15.8 | 8.3 | 15.0 | 8.4 | 1 107.1 |
| Feb | 136.4 | 86.2 | 129.6 | 87.7 | 16.3 | 8.9 | 15.1 [†] | 8.4 8.8 [†] | 994.6 |
| Mar | 151.9 | 102.4 | 135.7 | 91.8 | 17.3 | 10.7 | 15.4 | 9.4 | 1 014.2 |
| Apr May | 144.8 133.1 | 100.8 97.6 | 149.9 126.0 | 96.0 84.9 | 14.6 14.0 | 8.0 7.5 | 14.7 14.2 | 8.1 7.6 | 1 230.5 1 034.9 |
| Jun | 155.4 | 105.6 | 137.9 | 96.6 | 18.0 | 9.5 | 15.3 | 8.4 | 1 028.2 |
| Jul | 146.3 | 93.1 | 143.8 | 102.3 | 15.2 | 7.6 | 16.1 | 8.4 | 1 257.4 |
| Aug | 91.4 | 57.5 | 142.6 | 103.8 | 7.8 | 3.8 | 14.9 | 7.1 | 989.5 |
| Sep | 153.5 | 106.8 | 142.7 | 102.1 | 17.1 | 9.2 | 15.3 | 8.3 | 1 034.5 |
| Oct Nov | 153.4 142.9 | 113.8 110.5 | 134.2 135.6 | 94.0 98.7 | 16.8 19.0 | 9.5 9.8 | 15.1 17.0 | 8.2 8.9 | 1 195.3* 1 109.0 |
| INUV | 142.9 | 110.5 | 100.0 | 90.7 | 19.0 | 9.8 | 17.0 | 0.9 | 1 109.0 |

Annual and quarterly figures are monthly averages.
 The totals are for 'usable steel' in accordance with the system used by the EC and the IISI, but in a change from previous publications, figures are actual production totals based on a four or five week period (not seasonally

³ Provisional.

⁴ A seasonally adjusted series, based on the seasonal patterns of production from January 1999, has now been re-introduced. This affects the series from January 1999 only. Earlier data is based on previous production patterns. Sources: Office for National Statistics; Enquiries Columns 1-8 01633 812963; ISSB Ltd; Enquiries Column 9 020 7343 3900





Indicators of fixed investment in dwellings

| | | Orders received | Н | ousing starts ^{1,2} (GB)+ | ,3 | Hous | sing completions (GB)+ | 1,2,3 | Mix-adjusted | |
|---|--|---|--|---|--|--|---|--|---|--|
| | (£ million, chained volume measures, reference year 2000)) | by contractors for new houses (GB) (£ million, 2000 prices) | Private enterprise (thousands) | Registered Social Landlords ^{4,5} (thousands) | Local Authorities (NSA) (thousands) | Private enterprise (thousands) | Registered Social Landlords ^{4,5} (thousands) | Local Authorities (NSA) (thousands) | price of new dwellings at mortgage completion stage(NSA) ⁶ (£) | |
| 1999 2000 2001 2002 | DFEG 27 372 27 394 27 999 32 825 [†] | FCAS 7 265 [†] 7 005 7 084 7 697 | FCAT 156.8 158.3 162.9 165.1 | CTOQ 21.5 18.9 16.9 17.6 | CTOU 0.4 0.3 0.3 0.3 | FCAV 149.2 144.1 140.3 150.3 | CTOS 23.3 22.9 21.2 19.7 | CTOW 0.2 0.3 0.5 0.4 | WMPS 114 279 127 728 134 234 161 533 | |
| Quarterly | | | | | | | | | | |
| 1999 Q1 Q2 Q3 Q4 | 6 735 7 181 6 423 7 033 | | 38.6 38.7 38.2 41.3 | 5.6 5.2 5.4 5.2 | 0.1 0.1 0.1 0.1 | 35.5 36.3 38.6 38.6 | 5.6 6.1 5.8 5.8 | 0.1 - 0.1 | 107 241 112 711 115 789 118 699 | |
| 2000 Q1 Q2 Q3 Q4 | 7 016 6 970 6 819 6 589 | | 41.6 39.5 40.0 36.7 | 5.1 4.9 4.3 4.5 | 0.1 - 0.1 0.1 | 37.7 36.8 35.3 35.5 | 5.6 5.9 4.7 6.6 | 0.1 0.1 0.1 | 118 944 125 917 130 215 135 936 | |
| 2001 Q1 Q2 Q3 Q4 | 7 044 6 769 7 142 7 044 | 1 813 [†] 1 746 | 38.3 40.4 41.9 42.9 | 5.7 4.2 3.3 3.8 | 0.2 - - 0.1 | 34.7 34.6 36.0 35.0 | 5.7 4.7 4.7 6.2 | 0.3 - 0.1 0.1 | 130 771 130 774 135 507 137 368 | |
| 2002 Q1 Q2 Q3 Q4 | 7 572 [†] 7 812 8 401 9 040 | 1 905 1 754 2 000 2 039 | 41.0 39.6 42.7 42.6 | 5.5 4.2 4.3 3.7 | 0.1 0.1 - 0.1 | 36.4 38.1 36.3 39.4 | 5.2 4.6 4.5 5.5 | 0.2 - 0.1 | 143 996 157 646 164 293 173 254 | |
| 2003 Q1 Q2 Q3 | 8 590 9 100 9 152 | 2 059 2 078 1 872 | 44.6 | 4.6 | 0.1 | 38.2 | 5.0 | 0.2 | 175 947 187 676 188 570 | |
| Monthly | | | | | | | | | | |
| 2001 Jul Aug Sep Oct Nov Dec | | 514 [†] 755 544 522 569 655 | 13.3 13.6 14.9 14.8 13.8 14.3 | 1.2 1.0 1.1 1.3 1.4 | - - - - - | 11.7 11.6 12.7 11.8 11.4 | 1.8 1.6 1.3 2.5 1.9 1.7 | - - - - 0.1 | | |
| 2002 Jan Feb Mar Apr May Jun | | 731 552 622 619 544 591 | 13.4 13.4 14.2 15.6 12.6 11.4 | 1.6 1.7 2.1 1.7 1.4 1.0 | 0.1 - - - - 0.1 | 12.2 12.4 11.8 12.3 13.4 12.4 | 1.7 1.7 1.7 1.7 1.3 1.7 | - - 0.1 0.1 | 147 989 153 792 153 366 157 653 161 917 | |
| Jul Aug Sep Oct Nov Dec | | 673 715 612 655 658 726 | 13.6 13.5 15.6 13.9 13.9 14.7 | 1.1 1.7 1.5 1.5 1.2 1.1 | - - - - - | 11.3 12.2 12.8 12.5 13.0 14.0 | 1.4 1.3 1.8 1.8 1.8 | - - - - - | 156 787 165 201 170 891 168 194 171 984 179 585 | |
| 2003 Jan Feb Mar Apr May Jun | | 773 636 649 745 689 644 | 14.6 16.0 14.0 | 1.4 1.5 1.8 | - 0.1 | 11.4 13.7 13.1 | 1.5 1.6 1.9 | - 0.1 | 175 758 174 039 178 045 188 126 187 498 187 403 | |
| Jul Aug Sep Oct | | 677 587 608 768 | | | | | | | 186 807 191 100 188 287 195 551 | |

¹ Monthly data collection ceased after March 2003. Only quarterly data is now collected . Great Britain data for Q2 2003 is not yet available. Data for England, Scotland and Wales is available from the website of the Office of the Deputy Prime Minister: www.odpm.gov.uk

2 Data includes estimates for Scotland monthly, quarterly from Q4 2002, and

Sources: Office for National Statistics: Enquiries Column 1 020 7533 6010; Columns 9-10 020 7533 6046; Department of Trade and Industry ; Column 2 020 7944 5583; Office of the Deputy Prime Minister; Columns 3-8 0117 372 8055; Column 11 020 7944 3325

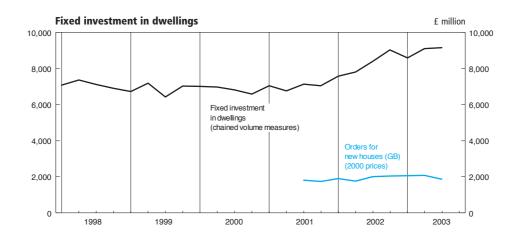
annually from 2002.

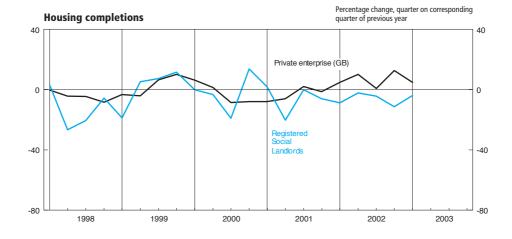
³ The annual totals shown do not equal the equivalent non-seasonally adjusted annual totals because the adjustment was based on financial years.

⁴ Includes registered and non-registered social landlords.

⁵ The Registered social landlords series is seasonally adjusted to March 2000 only for England, to December 1996 only for Scotland, and unadjusted for Wales.

⁶ Series based on mortgage lending by all financial institutions rather than building societies only, as previously published. This change has been made necessary because of the mergers, takeovers and conversions to plc status affecting the building society sector. The series is based on the Office of the Deputy Prime Ministers' 5% Survey of Mortgage Lenders (at completion stage) up to 2003q2. From 2003q3, quarterly data are based on monthly data from the significantly enlarged Survey of Mortgage Lenders.





5.5 Number of property transactions¹

Thousands

| | Number | of property transa | actions | | Number | of property transa | actions |
|----------|---|---|--|------------|---|---|--|
| | Not seasonally adjusted England & Wales | Seasonally adjusted England & Wales ^{2,3} | Not seasonally adjusted England, Wales & N. Ireland | | Not seasonally adjusted England & Wales | Seasonally adjusted England & Wales ^{2,3} | Not seasonally adjusted England, Wales & N. Ireland |
| | FTAP | | FTAR | Sep | 140 | 125 | 145 |
| 1998 | 1 347 | | 1 384 | Oct | 134 | 130 | 137 |
| 1999 | 1 469 | | 1 511 | Nov | 141 | 129 | 144 |
| 2000 | 1 433 | | 1 471 | Dec | 122 | 128 | 125 |
| 2001 | 1 458 | | 1 497 | | | | |
| 2002 | 1 586 | | 1 627 | 2000 Jan | 137 | 136 | 140 |
| | | | | Feb | 112 | 128 | 116 |
| | | FTAQ | | Mar | 118 | 128 | 122 |
| 1998 Q1 | 317 | 344 | 327 | Apr | 97 | 114 | 100 |
| Q2 | 317 | 332 | 327 | May | 122 | 120 | 126 |
| Q3 | 377 | 345 | 386 | Jun | 129 | 122 | 130 |
| Q4 | 335 | 326 | 345 | | | | |
| | | | | Jul | 127 | 117 | 130 |
| 1999 Q1 | 316 | 345 | 325 | Aug | 134 | 117 | 137 |
| Q2 | 342 | 358 | 354 | Sep | 117 | 112 | 121 |
| Q3 | 414 | 379 | 425 | Oct | 123 | 112 | 127 |
| Q4 | 397 | 388 | 407 | Nov | 117 | 111 | 121 |
| | | | | Dec | 98 | 114 | 101 |
| 2000 Q1 | 367 | 392 | 379 | | | | |
| Q2 | 348 | 356 | 356 | 2001 Jan | 123 | 115 | 127 |
| Q3 | 379 | 346 | 388 | Feb | 99 | 119 | 102 |
| Q4 | 339 | 338 | 349 | Mar | 105 | 117 | 108 |
| Q i | 000 | 000 | 0.10 | Apr | 101 | 115 | 105 |
| 2001 Q1 | 327 | 351 | 337 | May | 121 | 120 | 126 |
| Q2 | 347 | 357 | 360 | Jun | 125 | 122 | 128 |
| Q3 | 396 | 366 | 405 | Juli | 123 | 122 | 120 |
| Q4 | 387 | 383 | 396 | Jul | 132 | 119 | 135 |
| Q4 | 307 | 303 | 330 | Aug | 140 | 123 | 143 |
| 2002 Q1 | 342 | 383 | 351 | Sep | 124 | 124 | 127 |
| Q2 | 395 | 400 | 404 | Oct | 140 | 125 | 143 |
| Q2 Q3 | 457 | 412 | 468 | Nov | 137 | 134 | 143 |
| Q3 Q4 | 392 | 391 | 404 | Dec | 110 | 124 | 112 |
| Q4 | 392 | 391 | 404 | Dec | 110 | 124 | 112 |
| 2003 Q1 | 340 | 372 | 359 | 2002 Jan | 131 | 125 | 134 |
| Q2 | 306 | 323 | 320 | Feb | 108 | 129 | 110 |
| Q3 | 358 | 327 | 369 | Mar | 104 | 129 | 106 |
| QS | 330 | 321 | 309 | | 129 | 134 | 132 |
| 1998 Jan | 119 | 114 | 122 | Apr | 137 | 136 | 140 |
| Feb | 94 | 114 | 97 | May Jun | 129 | 130 | 132 |
| Mar | 104 | 116 | 108 | Juli | 129 | 130 | 132 |
| | 103 | 110 | 106 | Jul | 152 | 133 | 154 |
| Apr | | | 99 | | 166 | 146 | 171 |
| May | 96 | 109 | | Aug | | | |
| Jun | 119 | 113 | 122 | Sep | 139 | 132 | 144 |
| led | 100 | 110 | 100 | Oct | 147 | 131 | 151 |
| Jul | 129 | 113 | 132 | Nov | 127 | 129 | 131 |
| Aug | 119 | 116 | 121 | Dec | 118 | 131 | 122 |
| Sep | 129 | 116 | 133 | 0000 ! | 101 | 107 | 107 |
| Oct | 119 | 109 | 122 | 2003 Jan | 131 | 127 | 137 |
| Nov | 110 | 106 | 113 | Feb | 103 | 124 | 109 |
| Dec | 107 | 111 | 110 | Mar | 106 | 121 | 113 |
| 1000 les | 110 | 445 | 440 | Apr | 101 | 114 | 108 |
| 1999 Jan | 112 | 115 | 116 | May | 101 | 105 | 105 |
| Feb | 96 | 116 | 99 | Jun | 103 | 103 | 107 |
| Mar | 108 | 115 | 110 | | 465 | | 16- |
| Apr | 110 | 122 | 114 | Jul | 132 | 115 | 135 |
| May | 106 | 117 | 110 | Aug | 112 | 105 | 116 |
| Jun | 126 | 119 | 130 | Sep | 114 | 106 | 118 |
| | | | | Oct | 120 | 109 | 124 |
| Jul | 140 | 129 | 144 | Nov | 110 | 111 | 113 |
| Aug | 134 | 125 | 137 | | | | |

¹ The figures are based on counts of the relevant administrative forms processed each month. Normally the Stamp Offices are able to process the transactions they receive immediately, but high volumes handled in the second quarter of 2002 created some delays, which were partly addressed in July and fully addressed by August. The high volumes manifest itself in a time lag and the later processing of a proportion of the PD forms, which will boost the transactions in the later month. Furthermore because of the time lags involved between completion of transaction and receipt in the Stamp Office, the series above should normally be lagged one month to give a broad representation of transactions occurring in the month (details are given in the June 1991 edition of *Economic Trends*). This relationship will be weaker when Stamp Offices are not able to quickly process the transactions they receive.

Source: Board of Inland Revenue; Enquiries 020 7438 6314

² The Jubilee celebrations meant that the late May bank holiday was taken in June 2002. Seasonal features in the data arising from the May Bank holiday will therefore not automatically be removed by the process of seasonal adjustment. Caution should therefore be taken when interpreting monthly movements involving May or June 2002 data

volving May or June 2002 data.

3 The sum of seasonally adjusted components does not exactly match the unadjusted (definitive) annual total.

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Change in inventories Chained volume measures¹

Reference year 2000, £ million

| | | | Manufacturin | g industries | | Elect- | Distributive | trades | | |
|-------------------------|----------------------------|--------------------|------------------|------------------|------------------|---------------------------------------|------------------------|---------------------|-------------------------------|-----------------------------|
| | Mining and quarrying | Materials and fuel | Work in progress | Finished goods | Total | ricity, gas and water supply | Wholesale ² | Retail ² | Other industries ³ | Change in inventories |
| Level of inventories at | | | | | | | | | | |
| end-December 2002 | 930 | 20 845 | 16 155 | 19 806 | 56 806 | 1 219 | 27 064 | 22 024 | 37 223 | 145 266 |
| Quarterly | | | | | | | | | | |
| | FAEA | FBNF | FBNG | FBNH | DHBM | FAEB | FAJX | FBYN | DLWX | CAFU |
| 1999 Q1 | 22 | 216 | -230 | -4 | -16 | -36 | 156 | 442 | 2 176 | 2 742 |
| Q2 | -86 | -29 | -32 | -481 | -541 | -3 | 407 | 600 | 105 | 476 |
| Q3 | -94 | 158 | 257 | 22 | 437 | -101 | 387 | 321 | 729 | 1 677 |
| Q4 | -62 | 344 | -113 | -2 | 231 | -23 | 742 | 129 | 506 | 1 531 |
| 2000 Q1 | -36 | 139 | 400 | 102 | 640 | 71 | 620 | 599 | -1 069 | 819 |
| Q2 | 1 | 375 | – 91 | 114 | 399 | 37 | 440 | 363 | 17 | 1 262 |
| Q3 | -34 | 293 | -80 | 67 | 282 | 78 | 750 | 320 | 538 | 1 941 |
| Q4 | -108 | -76 | 291 | 188 | 401 | 99 | 93 | -13 | 783 | 1 249 |
| 2001 Q1 | -3 | 150 | 2 | 426 | 578 | -355 | 266 | 235 | 74 | 795 |
| Q2 | -5 | -241 | -84 | 110 | -215 | 164 | 458 | 118 | 1 286 | 1 806 |
| Q3 | 32 | -409 | 43 | -172 | -538 | 80 | 339 | 152 | 290 | 355 |
| Q4 | -3 | -104 | -264 | 47 | -321 | 30 | -584 | 9 | 851 | -18 |
| 2002 Q1 | 236 | 538 | 99 | -90 | 547 | -276 | -1 670 | 521 | 1 378 [†] | 736 [†] |
| Q2 | - 74 | – 507 | -476 | -334 | -1 317 | 51 | 712 | 848 | -998 | -778 |
| Q3 | -84 | -436 | -60 | -212 | -708 | 84 | 212 | 397 | 109 | 10 |
| Q4 | - 87 | -252 | -145 | -92 | -489 | 103 | 543 | 92 | 1 366 | 1 528 |
| 2003 Q1 | -30 | -42 | 20 | -149 | -171 | -203 | -153 | -4 | 1 767 | 1 206 |
| Q2 | 60 | -380 | 64 | 82 | -234 | 82 | -52 | 247 | 36 | 139 |
| Q3 | -13 [†] | 53 [†] | 87 [†] | 361 [†] | 501 [†] | -37 [†] | 366 [†] | 205 [†] | – 49 | 973 |
| QU | -13 | 50 | 07 | 301 | 301 | -01 | 300 | 203 | -43 | 310 |

Columns 9-10 020 7533 5949

5.7 Inventory ratios

| | Manuf | acturersí inventories1 t | o manufacturing produ | uction | D | T 13 . |
|-----------|--------------------|--------------------------|-----------------------|-------------------|--|--|
| | Materials and fuel | Work in progress | Finished goods | Total inventories | Retail inventories ¹ to retail sales ² | Total inventories ^{1,3} to gross value added |
| Quarterly | | | | | | |
| | FAPG | FAPH | FAPI | FAPF | FAPC ₊ | FDCA |
| 1999 Q1 | 99.8 | 99.6 | 104.6 | 101.3 | 96.3 ^T | 100 |
| Q2 | 99.3 | 99.1 | 101.7 | 100.1 | 98.6 | 100 |
| Q3 | 98.6 | 99.2 | 100.4 | 99.4 | 99.0 | 101 |
| Q4 | 99.9 | 98.1 | 100.0 | 99.4 | 98.5 | 101 |
| 2000 Q1 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100 |
| Q2 | 101.1 | 98.9 | 100.0 | 100.1 | 101.8 | 100 |
| Q3 | 102.3 | 98.2 | 100.1 | 100.4 | 102.1 | 101 |
| Q4 | 101.0 | 99.0 | 100.2 | 100.1 | 101.1 | 101 |
| 2001 Q1 | 101.8 | 99.1 | 102.4 | 101.2 | 100.6 | 101 |
| Q2 | 102.8 | 100.7 | 105.1 | 103.0 | 99.1 | 102 |
| Q3 | 101.0 | 101.1 | 104.3 | 102.2 | 98.2 | 102 |
| Q4 | 102.6 | 101.6 | 106.7 | 103.7 | 97.0 | 102 |
| 2002 Q1 | 106.1 | 103.0 | 107.2 | 105.6 | 97.4 | 102 |
| Q2 | 105.0 | 101.4 | 106.8 | 104.5 | 99.6 | 101 |
| Q3 | 101.8 | 100.0 | 104.5 | 102.2 | 100.6 | 101 |
| Q4 | 101.4 | 99.9 | 104.9 | 102.2 | 99.5 | 101 |
| 2003 Q1 | 101.3 | 100.1 | 104.2 | 102.0 | 100.2 | 101 |
| Q2 | 98.9 | 100.0 | 104.1 | 101.0 | 99.8 | 100 |
| Q3 | 99.0 | 100.3 | 105.8 | 101.7 | 99.1 | 99 |

¹ Chained volume measure: reference year 2000

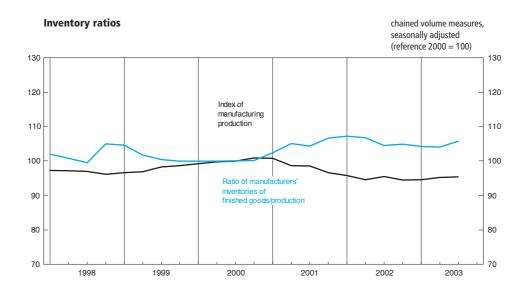
² Wholesaling and retailing estimates exclude the motor trades.

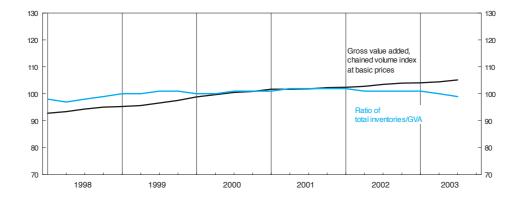
¹ Estimates are given to the nearest £ million but cannot be regarded as accurate to this degree.

3 Quarterly alignment adjustment included in this series. For description see notes to the *Economic Trends Annual Supplement*. For details of adjustments, see notes section in the Sector and Financial Accounts article in UK Economic Accounts.
Sources: Office for National Statistics; Enquiries Columns 1-8 01633 812351;

² Classes 64-65 excluding activity headings 6510 and 6520, retail distribution of motor vehicles and parts, and filling stations.

³ Including quarterly alignment adjustment. For details of adjustments see notes section in the Sector and Financial Accounts article in *UK EconomicAccounts*. Source: Office for National Statistics; Enquiries Columns 1-6 01633 812351





5 8 Retail sales, new registrations of cars and credit business (Great Britain)

| | | | Volume | e of retail s | ales per w | eek+(avera | age 2000=100 | 0)1,2 | | New | Tatal | of w | hich |
|-----------------|---|-----------------------------|-----------------------------|-----------------------------|---------------------------|-----------------------|-----------------------------|----------------|--------------------|---|---------------------------------------|-----------------------------|---------------------------|
| | Value of retail sales per week: total (average | All | Predomin- antly food | | Predomin Non- specialist | Textile, clothing and | ood stores Household goods | Other | Non-store | regi- strations of cars (NSA, thousands) ⁵ | Total consumer credit: Net lending (£ | Credit | |
| | 2000=100) ^{1,2} | retailers | stores | Total | stores | footwear | stores | stores | and repair | | million) 3,4 | cards ⁶ | Other ⁶ |
| Sales in 2000 | n | | | | | | | | | | | | |
| £ million | | 207 149 | 89 041 | 106 359 | 18 781 | 27 880 | 27 699 | 31 999 | 11 749 | | | | |
| Annual | EAOV | EADO | EADT | EAD\/ | EAPU | EARY | EADV | EAPW | EADZ | PCCT | DIMU | VZOV | VZQY |
| 2000 | EAQV 100.0 | EAPS 100.0 | EAPT 100.0 | EAPV 100.0 | 100.0 | EAPX 100.0 | EAPY 100.0 | 100.0 | EAPZ 100.0 | BCGT 2 337.3 | RLMH 13 929 [†] | VZQX 6 519 [†] | |
| 2001 2002 | 105.9 111.2 | 106.1 112.7 | 104.1 108.2 | 107.7 116.4 | 105.9 110.4 | 109.4 120.9 | 110.9 120.9 | 104.6 112.2 | 106.1 113.4 | 2 577.5 2 682.0 | 17 517 20 900 | 6 178 7 535 | 11 340 13 364 |
| Quarterly | 111.2 | 112.7 | 106.2 | 110.4 | 110.4 | 120.9 | 120.9 | 112.2 | 113.4 | 2 002.0 | 20 900 | 7 555 | 13 304 |
| - | | | | | | | | | | | | | |
| 2000 Q1 Q2 | 99.0 99.1 | 99.0 99.1 | 99.3 99.4 | 98.6 98.8 | 100.6 98.4 | 96.1 98.3 | 99.6 99.0 | 98.8 99.5 | 100.3 99.2 | 682.4 581.4 | 3 998 3 469 [†] | 1 626 1 742 [†] | 2 372 |
| Q3 | 100.3 | 100.5 | 100.3 | 100.8 | 99.4 | 101.5 | 100.5 | 101.1 | 99.5 | 612.5 | 3 028 | 1 594 | 1 433 [†] |
| Q4 | 101.6 | 101.4 | 101.0 | 101.8 | 101.7 | 104.1 | 100.9 | 100.6 | 101.0 | 461.0 | 3 434 | 1 557 | 1 877 |
| 2001 Q1 | 102.8 | 103.1 | 102.8 | 103.7 | 104.1 | 104.9 | 107.1 | 99.3 | 100.5 | 704.2 | 3 346 | 1 247 | 2 099 |
| Q2 Q3 | 105.5 107.0 | 105.3 107.1 | 103.7 104.6 | 106.6 109.0 | 106.0 106.8 | 107.4 111.0 | 110.6 111.5 | 102.6 106.2 | 106.8 109.6 | 617.7 725.6 | 4 573 4 218 | 1 658 1 331 | 2 916 2 887 |
| Q4 | 108.0 | 108.4 | 105.6 | 110.9 | 107.3 | 113.3 | 113.8 | 108.3 | 107.7 | 530.0 | 5 380 | 1 942 | 3 438 |
| 2002 Q1 | 110.1 | 110.8 | 106.7 | 114.7 | 108.9 | 118.2 | 117.7 | 112.5 | 106.1 | 758.7 | 5 095 | 1 872 | 3 223 |
| Q2 Q3 | 111.2 | 112.8 | 108.0 109.1 | 116.7 | 109.7 | 121.2 122.4 | 119.6 | 114.4 111.6 | 113.2 | 650.0 | 4 853 5 860 | 1 660 2 129 | 3 193 |
| Q3 Q4 | 111.9 113.3 | 113.7 115.4 | 110.8 | 117.2 118.9 | 112.2 113.3 | 122.4 | 121.6 124.3 | 114.1 | 117.5 119.1 | 744.6 528.7 | 5 092 | 1 874 | 3 731 3 217 |
| 2003 Q1 | 112.6 | 114.6 | 109.9 | 119.2 | 111.3 | 126.7 | 122.3 | 114.6 | 109.6 | 737.6 | 4 943 | 2 038 | 2 906 |
| Q2 | 113.7 115.0 [†] | | 111.7 | 121.1 | 112.3 | 129.0 | 126.5 | 114.6 | 109.1 | 642.7 | 5 278 | 2 279 | 2 999 |
| Q3 | 115.01 | 117.7 ¹ | 112.7 ^T | 123.2 ^T | 114.3 ¹ | 131.1 | 129.0 | 116.7 | 106.3 ¹ | 742.8 | 4 846 | 2 209 | 2 637 |
| Monthly | | | | | | | | | | | | | |
| 2001 Jul Aug | 106.2 106.6 | 106.4 106.6 | 104.4 104.4 | 107.5 108.4 | 105.7 107.2 | 108.1 107.9 | 110.4 112.2 | 105.5 106.1 | 110.8 107.7 | 179.7 81.4 | 1 607 ^T 1 247 | 457 396 [†] | 1 150 [†] 851 |
| Sep | 107.9 | 108.2 | 105.0 | 110.6 | 107.3 | 115.8 | 111.7 | 106.9 | 110.3 | 464.5 | 1 364 | 478 | 886 |
| Oct Nov | 107.8 108.1 | 108.2 108.6 | 105.5 106.0 | 110.5 110.7 | 106.8 108.6 | 111.5 115.3 | 116.2 110.7 | 107.0 107.9 | 108.5 110.1 | 195.8 197.3 | 1 610 1 740 | 578 727 | 1 033 1 012 |
| Dec | 108.0 | 108.4 | 105.4 | 111.3 | 106.7 | 113.2 | 114.3 | 107.3 | 105.2 | 136.9 | 2 030 | 637 | 1 393 |
| 2002 Jan | 109.1 | 109.4 | 106.3 | 112.4 | 108.4 | 114.4 | 114.9 | 110.7 | 106.8 | 213.5 | 1 783 | 669 | 1 114 |
| Feb | 110.6 | 111.5 | 107.0 | 115.7 | 109.6 | 119.6 | 118.0 | 113.8 | 107.4 | 98.9 | 1 905 | 754 | 1 151 |
| Mar Apr | 110.9 112.7 | 111.6 113.9 | 106.9 107.3 | 116.3 119.6 | 108.7 111.3 | 120.8 126.6 | 120.2 119.4 | 113.3 118.5 | 104.3 112.8 | 446.3 214.0 | 1 407 2 073 | 449 707 | 958 1 365 |
| May | 111.2 110.2 | 112.6 111.9 | 108.2 108.3 | 116.5 114.6 | 111.2 107.2 | 117.7 119.7 | 120.9 118.8 | 114.6 110.9 | 111.2 115.2 | 219.0 217.0 | 1 436 1 345 | 295 658 | 1 141 686 |
| Jun | | | | | | | | | | | | | |
| Jul Aug | 111.7 111.8 | 113.4 113.8 | 109.1 109.2 | 116.8 117.0 | 112.7 111.3 | 122.2 124.0 | 120.6 120.4 | 111.1 111.3 | 116.0 119.1 | 204.7 93.0 | 1 894 2 035 | 677 770 | 1 217 1 265 |
| Sep | 112.0 | 113.9 | 109.1 | 117.6 | 112.4 | 121.4 | 123.3 | 112.3 | 117.5 | 446.9 | 1 931 | 682 | 1 249 |
| Oct Nov | 113.1 112.8 | 114.9 114.9 | 110.0 110.4 | 118.6 118.4 | 113.5 113.7 | 123.2 118.6 | 123.9 125.6 | 113.0 114.9 | 119.0 117.6 | 193.0 182.9 | 1 874 1 398 | 537 689 | 1 337 709 |
| Dec | 113.9 | 116.2 | 111.8 | 119.5 | 112.8 | 125.6 | 123.7 | 114.3 | 120.5 | 152.8 | 1 819 | 648 | 1 171 |
| 2003 Jan | 112.0 | 114.2 | 108.6 | 119.1 | 111.6 | 125.5 | 122.6 | 114.9 | 112.1 | 193.4 | 1 396 | 680 | 716 |
| Feb Mar | 112.5 113.1 | 114.4 115.2 | 110.0 110.7 | 118.9 119.5 | 110.7 111.6 | 126.3 127.9 | 122.4 122.0 | 114.3 114.7 | 107.2 109.6 | 92.2 452.0 | 1 555 1 992 | 552 805 | 1 003 1 188 |
| Apr | 113.6 | 116.0 | 111.6 | 120.3 | 111.2 | 128.2 | 125.3 | 114.3 | 110.6 | 196.3 | 1 331 | 663 | 668 |
| May Jun | 113.2 114.2 | 115.8 117.1 | 111.3 112.0 | 120.4 122.3 | 111.9 113.6 | 126.6 131.5 | 127.4 126.8 | 113.9 115.5 | 108.5 108.3 | 202.6 243.8 | 1 836 2 110 | 799 818 | 1 038 1 293 |
| | | | | | 113.6 ¹ | | | 115.6 | L | | | | |
| Jul Aug | 114.4 115.0 | 117.1 117.6 | 112.1 ^T 113.1 | 122.3 122.7 | 113.61 114.4 | 130.2 | 127.8 128.7 [†] | | 105.7 | 201.1 94.2 | 1 487 1 553 | 689 736 | 797 817 |
| Sep | 115.5 ^T | 117.6 118.4 [†] | | 124.5 125.4 [†] | 114.8 | 133.2 | 130.0 | 117.7 | 105.7 ¹ | 447.5 | 1 807 | 783 | 1 024 |
| Oct Nov | 116.3 116.2 | 119.1 119.2 | 113.3 113.0 | 125.4 | 116.5 115.8 | 132.6 131.3 | 130.7 130.9 | 119.7 121.3 | 107.0 110.2 | 186.6 175.7 | 1 395 1 617 | 693 574 | 702 1 043 |

¹ Great Britain only. The motor trades are excluded. Information for periods earlier than those shown is available from ONS Newport (tel 01633 812509).

Sources: Office for National Statistics; Enquiries Columns 1-9 01633 812713; Columns 12-14 01633 812782.; Department of Transport; Enquiries Column 10,11 020 7890 3077.

² The retail sales index has been rebased using detailed information from the 2000 Annual Business inquiry. Further information is available via the National Statistics website: www.statistics.gov.uk

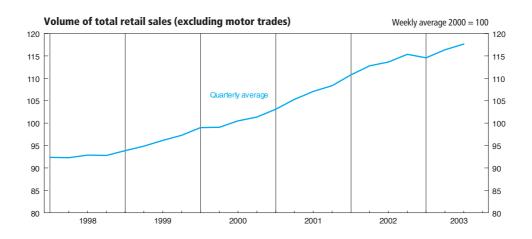
³ Net lending equals changes in amounts outstanding adjusted to remove distortions arising from revaluations of debt such as write-offs.

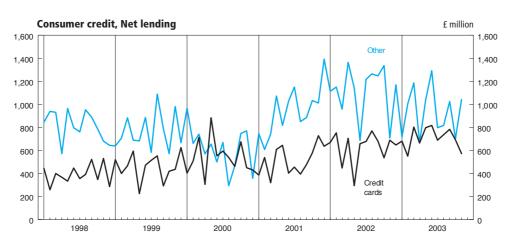
⁴ Covers all institutions providing finance for consumers; including loans by banks on personal accounts and on bank credit cards and charge cards, by insurance companies, retailers and other specialist lenders, but excluding loans for house purchase

for house purchase.

5 Seasonally adjusted data are not published in *Economic Trends* at present. Series DKBY ends in 1998 because seasonal adjustment has ceased; the existing model is not applicable to the new bi-annual registration system. It is published in the *Economic Trends Annual Supplement*.

⁶ See Table 6.6, note 2.





Please note: data from January 1999 are not directly comparable with earlier periods

Inland energy consumption: primary fuel input basis

Million tonnes of oil equivalent

| | | Se | asonally adjusted and te | emperature correcte | ed ⁷ (annualised ra | tes) | |
|--------------------|-------------------------|--------------------------|--------------------------|---------------------|--------------------------------|--------------------------|-----------------------------|
| | | | | | Primary electrici | ty ⁵ | |
| | Coal ¹ | Petroleum ² | Natural gas ³ | Nuclear | Natural flow | Nation out 6 | Total |
| Annual | Coai | retroleum | ivalurai gas | Nuclear | Hydro ⁴ | Net imports ⁶ | Total |
| | FDAI | FDAJ | FDAK | FDAL | FDAM | FDAW | FDAH |
| 1998 1999 | 43.6 38.3 | 76.8 78.0 | 90.4 95.8 | 23.4 22.2 | 0.5 0.5 | 1.1 1.2 | 235.8 236.2 |
| 2000 | 40.2 | 78.1 | 98.8 | 19.7 | 0.5 | 1.2 | 238.5 |
| 2001 | 43.2 | 76.3 [†] | 96.9 | 20.8 | 0.4 | 0.9 | 238.6 ^T |
| 2002 | 40.1 | 73.8 | 99.5 | 20.1 | 0.6 | 0.7 | 234.8 |
| Quarterly | | | | | | | |
| 1998 Q1 | 43.9 | 76.5 | 97.6 | 23.4 | 0.5 | 1.4 | 243.4 |
| Q2 | 46.3 | 79.7 | 87.7 | 22.3 | 0.5 | 1.4 | 237.9 |
| Q3 Q4 | 45.2 38.9 | 77.2 73.9 | 79.8 96.6 | 23.1 24.7 | 0.6 0.4 | 0.3 1.2 | 226.2 235.7 |
| QТ | 00.0 | 70.5 | 30.0 | 27.7 | 0.4 | 1.2 | 200.7 |
| 1999 Q1 | 37.6 | 80.9 | 104.9 | 23.4 | 0.5 | 1.2 | 248.6 |
| Q2 | 37.7 | 79.7 | 90.1 | 23.1 | 0.6 | 1.3 | 232.5 |
| Q3 Q4 | 38.4 39.6 | 77.4 74.0 | 84.9 103.4 | 21.6 20.8 | 0.5 0.5 | 1.1 1.2 | 224.0 239.5 |
| | | | | | | | |
| 2000 Q1 | 39.4 | 81.0 | 110.5 | 20.2 | 0.6 | 1.1 | 252.7 |
| Q2 Q3 | 40.3 40.2 | 75.7 80.5 | 95.2 86.5 | 19.8 19.5 | 0.5 0.5 | 1.3 1.3 | 232.7 228.4 [†] |
| Q4 | 41.0 | 75.3 | 103.1 | 19.2 | 0.5 | 1.2 | 240.3 |
| 2001 01 | 46.0 | 74.9 [†] | 100.0 | 20.0 | 0.2 | 1.1 | 250.0 |
| 2001 Q1 Q2 | 46.2 43.8 | 74.9 | 108.2 93.1 | 20.0 19.0 | 0.3 0.4 | 1.1 0.9 | 250.9 231.1 |
| Q3 | 42.1 | 81.5 | 86.0 | 22.0 | 0.5 | 0.9 | 233.1 |
| Q4 | 40.6 | 74.8 | 100.3 | 22.4 | 0.5 | 0.7 | 239.2 |
| 2002 Q1 | 42.7 | 74.8 | 108.1 | 21.4 | 0.6 | 0.6 | 248.2 |
| Q2 | 35.0 | 76.2 | 96.6 | 20.0 | 0.7 | 1.0 | 229.5 |
| Q3 | 38.0 | 77.4 | 90.5 | 20.1 | 0.5 | 0.2 | 226.8 |
| Q4 | 44.5 | 67.0 | 102.8 | 18.8 | 0.4 | 1.1 | 234.5 |
| 2003 Q1 | 44.1 | 71.3 | 107.2 | 21.6 | 0.3 | 0.3 | 244.8 |
| Q2 | 43.4 | 82.4 | 92.7 | 21.1 | 0.5 | 0.1 | 240.2 |
| Q3 | 44.1 | 71.3 | 107.2 | 21.6 | 0.3 | 0.3 | 244.8 |
| Percentage change, | , quarter on correspond | ding quarter of previous | year | | | | |
| Quarterly | FDAP | FDAQ | EDAR | FDAS | FDAT | FDAX | FDAO |
| 1998 Q1 | -3.6 | 1.7 | FDAR <i>4.7</i> | 2.9 | rdai | -1.3 | 2.2 |
| Q2 | 15.7 | 4.3 | 4.3 | -2.7 | | -2.0 | 5.8 |
| Q3 | 3.9 | 5.8 | -0.5 | 5.8 | | -78.8 | -1.7 |
| Q4 | -13.6 | -2.3 | 5.3 | 20.3 | | -19.4 | -1.6 |
| 1999 Q1 | -14.3 | 5.8 | 7.5 | -0.2 | -0.1 | -14.1 | 2.1 |
| Q2 | -18.6 | _ | 2.8 | 3.6 | 22.2 | -6.8 | -2.2 |
| Q3 Q4 | -14.9 1.6 | 0.2 0.3 | 6.4 7.0 | −6.5 −15.6 | -9.8 4.7 | - 5.6 | -0.9 1.6 |
| 0000 04 | | | | | 44.7 | 40.0 | |
| 2000 Q1 Q2 | 4.6 7.0 | 0.1 -5.0 | 5.3 5.6 | −13.7 −14.5 | 11.7 – 25.2 | -10.6 1.9 | 1.6 0.1 |
| Q3 | 4.4 | 4.0 | 1.8 | -9.8 | -13.0 | 12.9 | 1.9 |
| Q4 | 3.7 | 1.7 | -0.3 | -7.8 | 5.9 | -5.1 | 0.3 |
| 2001 Q1 | 17.4 | -7.4^{\dagger} | -2.0 | -0.9 | -43.9 | _ | -0.7^{\dagger} |
| Q2 | 8.8 | -2.4 | -2.2 | -4.0 | -9.2 | -30.3 | -0.7 |
| Q3 Q4 | 5.0 -1.2 | 1.2 -0.6 | −0.5 −2.7 | 13.0 16.4 | 5.0 6.1 | -29.0 -45.0 | 2.1 -0.5 |
| | | | | | | | |
| 2002 Q1 Q2 | −7.5 −20.1 | -0.2 3.1 | -0.1 3.8 | 7.0 5.6 | 74.1 73.7 | -43.7 5.5 | -1.0 -0.7 |
| Q2 Q3 | -20.1 -9.8 | -5.0 | 5.0 5.1 | -8.7 | 73.7 12.2 | -75.5 | -0.7 -2.7 |
| Q4 | 9.7 | -10.5 | 2.4 | -15.9 | -32.1 | 67.6 | -2.0 |
| 2003 Q1 | 3.1 | -4.6 | -0.8 | 0.9 | -44.4 | -56.2 | -1.4 |
| Q2 | 23.8 | 8.2 | -4.0 | 5.1 | -32.0 | -89.0 | 4.6 |
| Q3 | 15.9 | -7.9 | 18.5 | 7.3 | -39.0 | 23.7 | 7.9 |

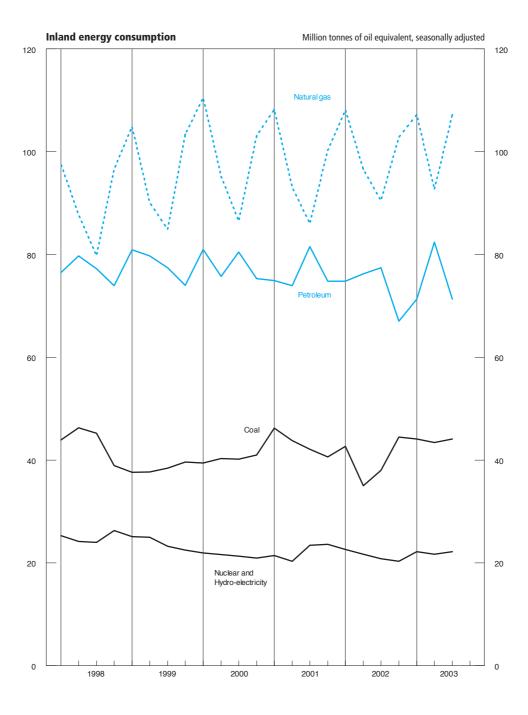
¹ Includes solid renewable sources (wood, straw, waste), a small amount of renewable primary heat sources (solar, geothermal, etc.) and net foreign trade and stock changes in other solid fuels.

4 Includes generations at wind stations. Excludes generation from pumped storage stations.

5 Not temperature corrected.

² Excludes non-energy use.
3 Includes gas used during production, colliery methane, landfill gas and sewage gas. Excludes gas flared or re-injected and non energy-use of gas.

6 Not seasonally adjusted.
7 For details of temperature correction see DTI energy statistics website at www.dti.gov.uk/energy/inform/dukes/dukes/2002/01/longterm.pdf Source: Department of Trade and Industry; Enquiries 020 7215 2698



Sterling exchange rates and UK reserves⁴

Not seasonally adjusted

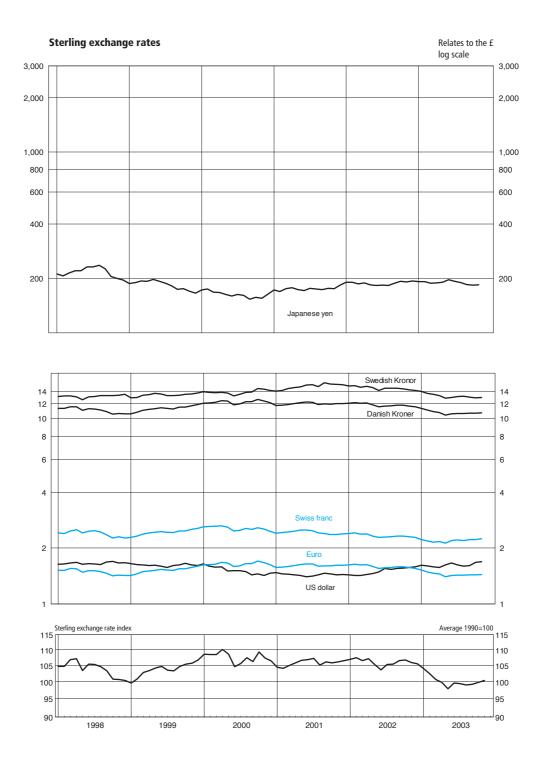
| | | | Sterling | exchange rat | e against majo | or currencies ¹ | | | UK inter- national | Sterling |
|---------------------------------|--|--|---|--|--|--|--|---|--|---|
| | Japanese yen | US dollar | Swiss franc | Euro ² | Danish kroner | Norwegian kroner | Swedish kronor | Hong Kong dollar | reserves ³ at end of period (£ million) | exchange rate index 1990 = 100 |
| Annual | AJFO | AUSS | AJFD | THAP | AJFK | AJFJ | AJFI | AJFU | THFE | AGBG |
| 1999 | 184.01 | 1.6183 | 2.430 | 1.5192 | 11.296 | 12.619 | 13.373 | 12.5541 | 25 938 | 103.8 |
| 2000 | 163.40 | 1.5162 | 2.558 | 1.6422 | 12.240 | 13.324 | 13.870 | 11.8057 | 32 227 | 107.5 |
| 2001 | 174.90 | 1.4400 | 2.430 | 1.6087 | 11.987 | 12.944 | 14.886 | 11.2312 | 27 773 | 105.8 |
| 2002 | 187.84 | 1.5026 | 2.334 | 1.5909 | 11.821 | 11.953 | 14.570 | 11.7265 | 26 566 | 106.0 |
| Quarterly | | | | | | | | | | |
| 1999 Q1 Q2 Q3 Q4 | 190.19 194.13 181.35 170.35 | 1.6335 1.6070 1.6021 1.6306 | 2.328 2.432 2.446 2.515 | 1.4574 1.5209 1.5271 1.5712 | 10.8368 11.3044 11.3547 11.6851 | 12.514 12.527 12.561 12.874 | 13.059 13.539 13.304 13.588 | 12.6531 12.4547 12.4369 12.6721 | 21 447 25 938 | 101.1 104.1 103.8 105.9 |
| 2000 Q1 | 171.99 | 1.6067 | 2.617 | 1.6286 | 12.1257 | 13.206 | 13.835 | 12.4926 | 22 090 | 108.4 |
| Q2 | 163.52 | 1.5334 | 2.568 | 1.6398 | 12.2271 | 13.466 | 13.584 | 11.9236 | 26 898 | 107.7 |
| Q3 | 159.19 | 1.4784 | 2.522 | 1.6336 | 12.1862 | 13.232 | 13.726 | 11.5304 | 28 818 | 106.4 |
| Q4 | 158.89 | 1.4464 | 2.523 | 1.6670 | 12.4250 | 13.394 | 14.333 | 11.2735 | 32 227 | 107.6 |
| 2001 Q1 | 172.26 | 1.4584 | 2.424 | 1.5814 | 11.7988 | 12.965 | 14.230 | 11.3765 | 30 457 | 104.5 |
| Q2 | 174.19 | 1.4208 | 2.487 | 1.6280 | 12.1436 | 13.039 | 14.847 | 11.0866 | 30 632 | 106.4 |
| Q3 | 174.67 | 1.4380 | 2.432 | 1.6152 | 12.0231 | 12.928 | 15.203 | 11.2092 | 29 662 | 106.1 |
| Q4 | 178.45 | 1.4428 | 2.375 | 1.6111 | 11.9887 | 12.845 | 15.264 | 11.2548 | 27 773 | 106.1 |
| 2002 Q1 | 188.79 | 1.4260 | 2.396 | 1.6263 | 12.0863 | 12.700 | 14.895 | 11.1230 | 28 053 | 106.9 |
| Q2 | 185.29 | 1.4630 | 2.329 | 1.5923 | 11.8379 | 11.956 | 14.564 | 11.4015 | 28 623 | 105.3 |
| Q3 | 184.85 | 1.5495 | 2.305 | 1.5747 | 11.6973 | 11.662 | 14.538 | 12.0871 | 27 950 | 105.7 |
| Q4 | 192.42 | 1.5720 | 2.304 | 1.5716 | 11.6733 | 11.494 | 14.285 | 12.2547 | 26 566 | 106.0 |
| 2003 Q1 | 190.67 | 1.6017 | 2.189 | 1.4937 | 11.0987 | 11.313 | 13.709 | 12.5030 | 26 349 | 102.3 |
| Q2 | 191.90 | 1.6194 | 2.163 | 1.4256 | 10.5851 | 11.344 | 13.032 | 12.6352 | 25 147 | 99.1 |
| Q3 | 189.14 | 1.6108 | 2.209 | 1.4300 | 10.6264 | 11.794 | 13.103 | 12.5605 | 26 909 | 99.2 |
| Monthly | | | | | | | | | | |
| 2001 Jan | 172.49 | 1.4769 | 2.408 | 1.5753 | 11.759 | 12.969 | 14.017 | 11.5197 | 31 232 | 104.4 |
| Feb | 168.85 | 1.4529 | 2.423 | 1.5786 | 11.780 | 12.957 | 14.164 | 11.3321 | 29 117 | 104.1 |
| Mar | 175.44 | 1.4454 | 2.441 | 1.5901 | 11.856 | 12.969 | 14.509 | 11.2736 | 30 457 | 105.0 |
| Apr | 177.49 | 1.4350 | 2.460 | 1.6084 | 12.004 | 13.047 | 14.647 | 11.1913 | 30 446 | 105.8 |
| May | 173.68 | 1.4259 | 2.500 | 1.6304 | 12.165 | 13.033 | 14.766 | 11.1483 | 30 651 | 106.6 |
| Jun | 171.41 | 1.4014 | 2.502 | 1.6434 | 12.249 | 13.036 | 15.127 | 10.9302 | 30 632 | 106.8 |
| Jul | 176.07 | 1.4139 | 2.487 | 1.6433 | 12.234 | 13.095 | 15.225 | 11.0279 | 29 187 | 107.2 |
| Aug | 174.42 | 1.4365 | 2.416 | 1.5955 | 11.878 | 12.853 | 14.844 | 11.2038 | 29 669 | 105.1 |
| Sep | 173.53 | 1.4635 | 2.394 | 1.6060 | 11.951 | 12.837 | 15.540 | 11.4144 | 29 662 | 106.1 |
| Oct | 176.14 | 1.4517 | 2.371 | 1.6024 | 11.917 | 12.813 | 15.338 | 11.3230 | 28 090 | 105.8 |
| Nov | 175.67 | 1.4358 | 2.370 | 1.6166 | 12.036 | 12.813 | 15.233 | 11.1984 | 28 733 | 106.1 |
| Dec | 183.55 | 1.4409 | 2.384 | 1.6151 | 12.021 | 12.908 | 15.220 | 11.2375 | 27 773 | 106.5 |
| 2002 Jan | 190.01 | 1.4323 | 2.392 | 1.6222 | 12.057 | 12.844 | 14.972 | 11.1705 | 27 089 | 106.9 |
| Feb | 190.11 | 1.4231 | 2.415 | 1.6348 | 12.146 | 12.731 | 15.013 | 11.0993 | 27 940 | 107.4 |
| Mar | 186.26 | 1.4225 | 2.381 | 1.6224 | 12.059 | 12.525 | 14.700 | 11.0946 | 28 053 | 106.5 |
| Apr | 188.50 | 1.4434 | 2.386 | 1.6282 | 12.104 | 12.415 | 14.878 | 11.2581 | 28 191 | 107.1 |
| May | 184.26 | 1.4593 | 2.318 | 1.5914 | 11.833 | 11.963 | 14.676 | 11.3814 | 28 055 | 105.3 |
| Jun | 183.10 | 1.4863 | 2.284 | 1.5515 | 11.532 | 11.491 | 14.137 | 11.5934 | 28 623 | 103.6 |
| Jul | 183.50 | 1.5546 | 2.290 | 1.5665 | 11.640 | 11.615 | 14.528 | 12.1261 | 27 649 | 105.3 |
| Aug | 182.97 | 1.5377 | 2.302 | 1.5723 | 11.677 | 11.698 | 14.550 | 11.9944 | 28 208 | 105.4 |
| Sep | 188.07 | 1.5561 | 2.323 | 1.5861 | 11.780 | 11.672 | 14.537 | 12.1370 | 27 950 | 106.5 |
| Oct | 192.90 | 1.5574 | 2.325 | 1.5868 | 11.790 | 11.645 | 14.450 | 12.1464 | 28 322 | 106.7 |
| Nov | 190.99 | 1.5723 | 2.303 | 1.5694 | 11.654 | 11.484 | 14.237 | 12.2624 | 28 972 | 105.9 |
| Dec | 193.36 | 1.5863 | 2.284 | 1.5566 | 11.560 | 11.354 | 14.167 | 12.3711 | 26 566 | 105.5 |
| 2003 Jan | 192.07 | 1.6169 | 2.226 | 1.5222 | 11.314 | 11.172 | 13.964 | 12.6105 | 24 708 | 104.0 |
| Feb | 192.12 | 1.6046 | 2.189 | 1.4893 | 11.091 | 11.262 | 13.652 | 12.5450 | 26 140 | 102.4 |
| Mar | 187.82 | 1.5836 | 2.152 | 1.4649 | 10.880 | 11.506 | 13.511 | 12.3503 | 26 349 | 100.6 |
| Apr | 188.79 | 1.5747 | 2.170 | 1.4505 | 10.771 | 11.347 | 13.279 | 12.2817 | 25 232 | 99.8 |
| May | 190.42 | 1.6230 | 2.125 | 1.4030 | 10.417 | 11.047 | 12.840 | 12.6579 | 25 371 | 97.9 |
| Jun | 196.49 | 1.6606 | 2.193 | 1.4234 | 10.569 | 11.638 | 12.978 | 12.9502 | 25 147 | 99.6 |
| Jul Aug Sep Oct Nov | 192.72 189.42 185.29 183.76 184.47 | 1.6242 1.5950 1.6131 1.6787 1.6901 | 2.209 2.200 2.219 2.220 2.250 | 1.4277 1.4286 1.4338 1.4334 1.4426 | 10.613 10.617 10.649 10.651 10.729 | 11.828 11.800 11.755 11.807 11.832 | 13.130 13.186 12.994 12.917 12.973 | 12.6671 12.4395 12.5590 12.9962 13.1201 | 25 736 26 511 26 909 26 092 | 99.4 99.0 99.2 99.8 100.4 |

Average of daily Telegraphic Transfer rates in London.
 Prior to January 1999, a synthetic Euro has been calculated by geometrically averaging the bilateral exchange rates of the 11 Euro-area countries using "internal weights" based on each country's share of the extra Euro-area trade.

³ International reserves data are all valued at end-period market prices and exchange rates. They additionally include other reserve assets such as repos (sale and purchase agreements) and derivatives. Full details are shown in Table 1.2I of *Financial Statistics*.

⁴ These figures fall outside the scope of National Statistics.

Source: Bank of England: Enquiries 020 7601 4342



6.2 Monetary aggregates^{1,3}

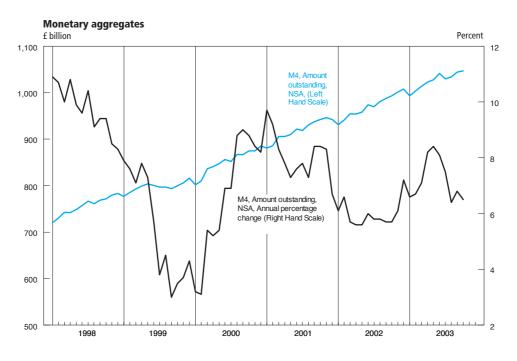
| | | 1 | 0N | | | 1 | M4 | |
|------------|------------------|---------------------------------|----------------------------------|--------------------------------|------------------------|--------------------------------|----------------------------------|--------------------------------|
| | | nount ing ² (NSA) | | | | nount ling (NSA) | | |
| | £ million | Annual percentage change | Amount outstanding (£ million) + | Velocity of circulation: ratio | £ million | Annual percentage change | Amount outstanding (£ million) + | Velocity of circulation: ratio |
| Annual | | | | | | | | |
| 1998 | AVAD 29 346 | VQNB 5.8 | AVAE 27 705 | AVAM 31.85 | AUYM 783 240 | VQLC 8.3 | AUYN 781 207 [†] | AUYU 1.14 |
| 1999 | 32 768 | 11.7 | 30 916. | 31.30 | 816 545 . | 4.3 | 814 227 | 1.14 |
| 2000 | 34 566 | 5.5 | 32 315 [†] | 30.42 | 884 839 [†] | 8.2 | 882 922 | 1.12 |
| 2001 | 37 319 | 8.0 | 34 975 | 29.72 | 942 433 | 6.7 | 940 697 | 1.09 |
| 2002 | 39 546 | 6.0 | 37 014 | 28.91 | 1 007 781 | 7.2 | 1 006 053 | 1.08 |
| Quarterly | | | | | | | | |
| 1999 Q1 | 27 830 | 6.5 | 28 160 | 31.67 | 792 903 | 7.1 | 788 042 [†] | 1.12 |
| Q2 Q3 | 28 884 29 477 | 8.0 7.1 | 28 932 29 398 | 31.44 31.20 | 800 698 793 684 | 5.7 3.0 | 794 994 796 319 | 1.13 1.15 |
| Q4 | 32 768 | 11.7 | 30 916 | 30.87 | 816 545 | 4.3 | 814 227 | 1.15 |
| 2000 Q1 | 29 968 | 7.7 | 30 461 | 30.53 | 836 240 | 5.4 | 831 027 | 1.15 |
| Q2 | 30 896 | 7.0 | 31 158 | 30.65 | 856 220 | 6.9 | 849 538 | 1.12 |
| Q3 | 31 821 | 8.0 | 31 941 [†] | 30.46 | 866 379 ^T | 9.0 | 867 023 | 1.11 |
| Q4 | 34 566 | 5.5 | 32 315 | 30.03 ^T | 884 839 | 8.2 | 882 922 | 1.10 |
| 2001 Q1 | 32 489 | 8.4 | 32 985 | 29.99 | 905 800 | 8.3 | 901 075 | 1.10 |
| Q2 | 32 896 | 6.5 | 33 244 | 30.00 | 921 571 | 7.6 | 913 645 | 1.09 |
| Q3 Q4 | 33 797 37 319 | 6.2 8.0 | 33 965 34 975 | 29.58 29.31 | 937 071 942 433 | 8.4 6.7 | 934 932 940 697 | 1.08 1.07 |
| 2002 Q1 | 35 157 | 8.2 | 35 482 | 29.06 | 954 540 | 5.7 | 950 539 | 1.08 |
| Q2 | 36 222 | 10.1 | 36 337 | 28.90 | 974 112 | 6.0 [†] | 964 567 | 1.08 |
| Q3 | 36 510 | 8.0 | 36 663 | 28.87 | 987 748 | 5.7 | 984 047 | 1.08 |
| Q4 | 39 546 | 6.0 | 37 014 | 28.80 | 1 007 781 | 7.2 | 1 006 053 | 1.07 |
| 2003 Q1 | 37 192 | 5.8 | 37 757 | 28.78 | 1 013 544 | 7.1 | 1 009 936 | 1.06 |
| Q2 Q3 | 38 411 39 356 | 6.0 7.8 | 38 797 39 510 | 28.20 | 1 040 994 1 044 261 | 8.1 6.8 | 1 029 907 1 040 342 | 1.06 |
| Monthly | | | | | | | | |
| 2001 Jun | 32 896 | 6.5 | 33 244 [†] | | 921 571 [†] | 7.6 | 913 645 [†] | |
| Jul | 33 272 | 6.8 | 33 497 | | 918 688 | 7.8 | 920 105 | |
| Aug | 33 881 | 7.1 | 33 757 | | 930 373 | 7.3 | 928 279 | |
| Sep | 33 797 | 6.2 | 33 965 | ** | 937 071 | 8.4 | 934 932 | |
| Oct Nov | 33 978 34 883 | 7.0 8.1 | 34 172 34 662 | | 942 388 945 995 | 8.4 8.3 | 940 855 942 802 | |
| Dec | 37 319 | 8.0 | 34 975 | | 942 433 | 6.7 | 940 697 | |
| 2002 Jan | 35 799 | 8.9 | 35 304 | | 930 772 | 6.1 | 944 088 | |
| Feb | 34 750 | 7.4 | 35 330 | | 941 001 | 6.6 | 951 775 | |
| Mar | 35 157 | 8.2 | 35 482 | | 954 540 | 5.7 | 950 539 | |
| Apr May | 35 369 35 661 | 7.1 8.5 | 35 613 35 900 | | 954 144 957 957 | 5.6 5.6 ₊ | 953 563 957 547 | |
| Jun | 36 222 | 10.1 | 36 337 | | 974 112 | 6.0 [†] | 964 567 | |
| Jul | 36 050 | 8.4 | 36 243 | | 969 433 | 5.8 | 971 576 | |
| Aug | 36 689 | 8.3 | 36 474 | | 980 704 | 5.8 | 979 349 | |
| Sep Oct | 36 510 36 749 | 8.0 8.2 | 36 663 36 984 | | 987 748 993 159 | 5.7 5.7 | 984 047 991 288 | |
| Nov | 36 749 37 167 | 8.2 6.6 | 36 984 37 038 | | 1 001 479 | 5.7 6.1 | 997 313 | |
| Dec | 39 546 | 6.0 | 37 014 | | 1 007 781 | 7.2 | 1 006 053 | |
| 2003 Jan | 37 236 | 4.0 | 37 154 | | 993 336 | 6.6 | 1 007 010 | |
| Feb | 36 952 | 6.3 | 37 554 | | 1 003 590 | 6.7 | 1 014 603 | |
| Mar Apr | 37 192 38 599 | 5.8 9.1 | 37 757 38 695 | | 1 013 544 1 023 032 | 7.1 8.2 | 1 009 936 1 021 854 | |
| Apr May | 38 833 | 9.1 8.9 | 38 775 | | 1 023 032 | 8.4 | 1 021 854 | |
| Jun | 38 411 | 6.0 | 38 797 | | 1 040 994 | 8.1 | 1 029 907 | |
| Jul | 38 946 | 8.0 | 39 196 | | 1 029 388 | 7.5 | 1 032 048 | |
| Aug | 39 587 | 7.9 | 39 360 | | 1 033 412 | 6.4 | 1 033 812 | |
| Sep Oct | 39 356 39 426 | 7.8 7.3 | 39 510 39 695 | | 1 044 261 1 047 066 | 6.8 6.5 | 1 040 342 1 045 936 | |

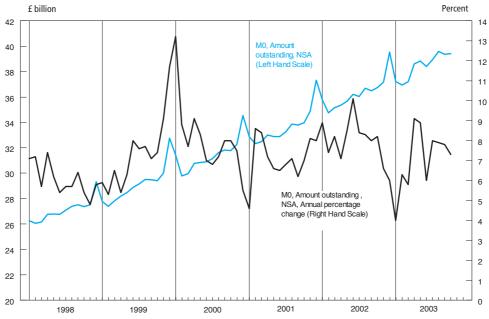
¹ A fuller range of monetary aggregates is published monthly in the ONS publication *Financial Statistics*.

2 The monthly figures for M0 give the average of the amounts outstanding each Wednesday during the calendar month.

3 These figures fall outside the scope of National Statistics.

Source: Bank of England; Enquiries 020 7601 5467





Counterparts to changes in money stock M4^{1,4}

 ${\tt f}$ million, not seasonally adjusted

| | | Purchases by private se | | | External foreign cur nancing public se | rency g of | Banksí and Building Soc- | External and foreign currency trans- | Net non- deposit sterling liabili- | | | |
|---|--|---|---|---|---|--|--|--|--|---|--|---|
| | Public - | Central governme | nt debt | | Purchase of British | | ietiesí sterling lending | actions of UK banks | ties of UK banks | | External | |
| | Sector Net Cash Require- ment+ ³ | British govern- ment stocks | Other | Other public sector debt | govern- ment stocks by overseas sector | Other | to the M4 private sector | and building soc- ieties | and building soc- ieties | Domestic counter- parts | and foreign currency counter- parts | M4 |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Annual | RURQ | AVBY | AVBU | AVBV | AVBZ | AQGA | AVBS | AVBW | AVBX | AVBN | VQLP | AUZI |
| 1999 | -1 296 | -3 981 | 1 803 | 1 115 | -4 906 | 1 294 | 78 088 | -44 743 | -3 103 [†] -30 949 -10 785 -25 291 | 75 033 | -38 544 | 33 386 |
| 2000 | -37 562 | 11 388 | 1 915 | 285 | 4 040 | 7 657 | 111 230 | 7 072 [†] | | 87 480 | 10 688 [†] | 67 220 [†] |
| 2001 | -2 921 | -9 671 | -2 481 | 246 | -19 361 | 4 195 | 82 446 | -21 637 | | 67 732 | 1 920 | 58 868 |
| 2002 | 17 165 [†] | -8 383 | 906 [†] | –597 | -897 | 1 589 | 107 654 | -25 975 | | 116 711 | -23 489 | 67 933 |
| Quarterly | | | | | | | | | | | | |
| 1999 Q1 | -5 641 | 4 338 | -478 | 341 | 8 | 419 | 21 386 | -9 294 | -952 [†] -2 353 -9 399 9 601 | 19 550 | -8 884 | 9 714 |
| Q2 | 5 334 | -4 967 | 157 | 226 | 790 | 511 | 18 342 | -9 120 | | 19 110 | -9 399 | 7 358 |
| Q3 | -3 185 | -2 685 | 1 658 | –92 | -5 497 | 108 | 12 703 | -11 829 | | 8 386 | -6 224 | -7 237 |
| Q4 | 2 196 | -667 | 466 | 640 | -207 | 256 | 25 657 | -14 500 | | 27 987 | -14 037 | 23 551 |
| 2000 Q1 | -12 886 | 5 013 | -1 257 | -336 | 2 141 | 2 577 | 36 677 | -2 568 | -5 927 | 27 432 | -2 133 | 19 372 |
| Q2 | -11 831 | -4 104 | 6 729 | 147 | -1 017 | 3 301 | 25 254 | 278 | -1 472 | 16 198 | 4 596 | 19 323 |
| Q3 | -16 499 | 5 653 | -91 | 183 | 540 | 1 281 | 27 255 | 5 374 [†] | -13 189 | 16 491 | 6 115 [†] | 9 417 [†] |
| Q4 | 3 654 | 4 826 | -3 466 | 291 | 2 376 | 498 | 22 044 | 3 988 | -10 361 | 27 359 | 2 110 | 19 108 |
| 2001 Q1 | -12 573 | 163 | -1 183 | -178 | -6 682 | 3 734 | 31 075 | -7 738 | 1 273 | 17 317 | 2 677 | 21 267 |
| Q2 | 6 317 | -12 059 | -424 | 183 | -10 982 | 1 000 | 21 194 | -7 294 | -4 293 | 15 289 | 4 689 | 15 685 |
| Q3 | -6 138 | 1 267 | 3 393 | 110 | -2 709 | 1 288 | 15 710 | 7 251 | -8 866 | 14 361 | 11 249 | 16 744 |
| Q4 | 9 473 | 958 | -4 267 | 131 | 1 012 | -1 827 | 14 467 | -13 856 | 1 101 | 20 765 | –16 695 | 5 172 |
| 2002 Q1 | -6 334 | -679 | 3 679 | -261 | -1 045 | 2 399 | 24 732 | -7 769 | -3 149 | 21 165 | -4 326 | 13 691 |
| Q2 | 7 056 | -1 330 | -2 949 | 101 | -266 | -1 001 | 24 507 | 791 | -8 178 | 27 429 | 57 | 19 308 |
| Q3 | 665 [†] | -2 432 | 357 [†] | -190 | -1 960 | 208 | 34 214 | -8 825 | -11 055 | 32 586 | -6 657 | 14 875 |
| Q4 | 15 778 | -3 942 | -181 | -247 | 2 374 | -17 | 24 201 | -10 172 | -2 909 | 35 531 | -12 563 | 20 059 |
| 2003 Q1 | -1 035 | -3 092 | -307 | -104 | 1 934 | 431 | 21 516 | 2 632 | -4 467 | 16 981 | 1 129 | 13 643 |
| Q2 | 16 189 | -4 802 | -4 369 | -106 | 2 142 | -2 084 [†] | 35 394 [†] | -1 239 | -7 127 | 42 296 [†] | -5 465 | 29 704 |
| Q3 | 6 021 | -11 742 [†] | 1 183 | -188 [†] | 979 | -1 228 | 29 545 | -963 | -17 894 | 24 685 | -3 170 | 3 622 |
| Monthly | | | | | | | | | | | | |
| 2001 Jul Aug Sep Oct Nov Dec | -9 464 -295 3 621 -5 900 5 964 9 409 | -1 678 -1 671 4 616 -75 5 909 -4 876 | 3 101 236 56 1 389 -3 962 -1 694 | -192 167 136 -44 -2 177 | -3 570 -1 921 2 782 -1 317 2 180 149 | 51 1 693 -457 312 -571 -1 568 | -1 800 16 044 1 466 12 444 5 335 -3 312 | 6 383 [†] -3 323 4 191 -9 935 -1 732 -2 189 | -2 897 -2 453 -3 517 5 848 -5 361 614 | -10 034 14 492 9 903 7 780 13 298 -313 | 10 004 [†] 292 952 -8 306 -4 483 -3 906 | -2 927 [†] 12 332 7 339 5 323 3 454 -3 605 |
| 2002 Jan | -11 995 | -1 443 | 1 226 | -295 | -2 433 | 2 210 | 9 432 | -1 289 | -8 736 | -3 101 | 3 354 | -8 482 |
| Feb | -2 108 | 105 | 2 810 | -116 | 60 | 897 | 5 446 | 1 776 | 330 | 6 188 | 2 613 | 9 131 |
| Mar | 7 769 | 659 | -357 | 150 | 1 328 | -709 | 9 854 | -8 255 | 5 257 | 18 078 | -10 293 | 13 042 |
| Apr | -3 038 | 725 | -372 | 100 | -1 098 | -560 | -1 380 | 2 144 | 857 | -3 989 | 2 683 | -450 |
| May | 2 748 | -1 438 | -397 | 19 | 573 | -49 | 14 719 | -10 016 | -1 236 | 15 691 | -10 638 | 3 817 |
| Jun | 7 346 | -617 | -2 180 | -17 | 259 | -392 | 11 168 | 8 663 | -7 799 | 15 727 | 8 012 | 15 940 |
| Jul | -6 806 [†] 2 134 5 337 -2 448 6 616 11 610 | -3 287 | 2 775 | -78 | -460 | -267 | -1 554 | 13 162 | -9 460 | -8 964 | 13 355 | -5 069 |
| Aug | | 3 647 | -843 | 58 | 902 | 548 | 14 719 | -11 332 | 5 200 | 19 699 | -11 686 | 13 213 |
| Sep | | -2 793 | -1 575 [†] | -170 | -2 402 | -73 | 21 049 | -10 656 | -6 794 | 21 851 | -8 326 | 6 731 |
| Oct | | -1 713 | 2 503 | -178 | 339 | -154 | 14 738 | -8 389 | 1 515 | 12 873 | -8 882 | 5 506 |
| Nov | | -2 217 | -562 | 24 | 570 | 731 | 10 941 | -979 | -5 692 | 14 757 | -818 | 8 247 |
| Dec | | -12 | -2 122 | -94 | 1 465 | -594 | -1 477 | -805 | 1 269 | 7 901 | -2 864 | 6 306 |
| 2003 Jan | -11 863 | -4 053 | 1 866 | -198 | 1 138 | 761 | 4 739 | 10 302 | -15 022 | -9 533 | 9 925 | -14 629 |
| Feb | -182 | -870 | 530 | 190 | -1 402 | -245 | 11 019 | -12 324 | 10 836 | 10 669 | -11 167 | 10 338 |
| Mar | 11 010 | 1 831 | -2 703 | -95 | 2 198 | -85 | 5 758 | 4 654 | -281 | 15 845 | 2 371 | 17 935 |
| Apr | 250 | -6 125 | 1 607 | -219 | -1 969 | -927 [†] | 10 964 | 1 980 | 3 | 6 487 [†] | 3 022 | 9 512 |
| May | 5 793 | 4 496 | -4 980 | 150 | 4 611 | -234 | 10 688 | 5 703 | -10 945 | 16 134 | 857 | 6 047 |
| Jun | 10 146 | -3 173 | -996 | -37 | -500 | -923 | 13 742 [†] | -8 922 | 3 815 | 19 675 | -9 344 | 14 146 |
| Jul Aug Sep Oct Nov | -6 063 3 517 8 567 -1 682 5 805 | -5 773 [†] -4 139 -1 830 -7 316 | 3 288 -1 574 -531 2 069 | -117 39 -110 [†] -126 | -1 339 227 2 091 -1 161 | 875 -771 -1 332 3 018 | 6 723 5 463 17 359 22 954 | 205 -10 126 8 959 -22 985 | -11 684 [†] 11 864 -18 074 5 884 | -2 048 3 291 23 442 16 000 | 2 419 -11 124 5 536 -18 805 | -11 313 4 032 10 903 3 078 |

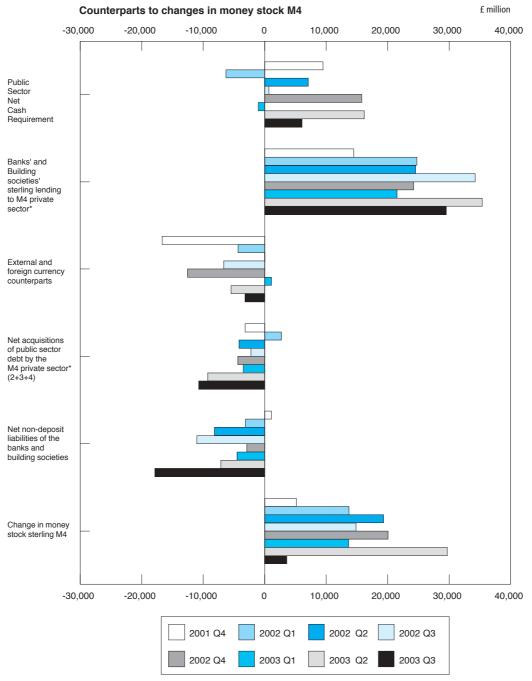
For most periods the relationships between the columns are as follows:

11 = 5 + 6 + 8; 12 = 9 + 10 + 11. Due to the inclusion of Public Sector Net
Cash Requirement (PSNCR) information on a ESA95 basis, 10 = 1 + 2 + 3 +
4 + 7 from 1994/95 only. Because the latest available PSNCR information is
included figures for more recent periods may not add exactly.

1 A wider range of figures is published monthly in *Financial Statistics*.
2 The M4 private sector comprises all UK residents other than the public sector, banks and building societies.
3 Formerly called the Public Sector Borrowing Requirement.
4 Columns 2 - 12 do not contain National Statistics; Enquiries Column 1 020 7533 5984;

Sources: Office for National Statistics; Enquiries Column 1 020 7533 5984;

Bank of England; Columns 2-12 020 7601 5467



^{*} Private sector other than banks and building societies

6.4 Public sector receipts and expenditure

£ million, not seasonally adjusted

| | Public sector current expenditure | | | | texpendi | | | | P | ublic sect | or currer | nt receipts | | | | |
|--------------------------------|--|----------------------------------|---------------------------------------|--------------------------------|---|---|--|--------------------------------------|---|---|---------------------------------------|------------------------------------|---|---|------------------------------|--|
| | Current expendi- ture on goods and s services | Subsidi- es | Social | | current | Interest paid to private sector and RoW | expendi- | | Taxes on production | Taxes on income and wealth | Taxes on capital | Other Current taxes | social | t/divide from | other current transfe- | Total current receipts |
| Annual 2000 2001 2002 | GZSN 177 740 191 171 209 461 [†] | 6 405 | ANLY 114 986 123 574 126 881 | -2 134 | NNAI 18 638 18 899 22 840 [†] | 23 618 | ANLT 342 878 361 533 386 316 [†] | | NMYE 129 716 133 111 140 570 | ANSO 140 088 147 521 142 121 | 2 215 2 396 | NVCM 18 223 19 168 20 286 | ANBO 60 284 62 887 63 381 | ANBQ 5 433 5 395 4 370 | 2 879 | ANBT 375 043 391 118 393 408 |
| Quarterl | у | | | | | | | | | | | | | | | |
| 2000 Q1 Q2 Q3 Q4 | 42 447 44 496 45 285 45 512 | 1 283 1 213 1 208 1 354 | 28 054 28 369 | 219 -163 73 205 | 4 230 4 575 4 695 5 138 | 6 047 6 700 6 359 7 016 | 81 678 84 875 85 989 90 336 | 4 378 4 363 4 345 4 728 | 31 319 32 830 32 368 33 199 | 43 124 26 834 34 721 35 409 | 548 566 579 522 | 4 350 4 605 4 692 4 576 | 16 173 14 588 14 337 15 186 | 1 091 1 263 1 532 1 547 | 540 363 716 511 | 101 306 85 198 93 075 95 464 |
| 2001 Q1 Q2 Q3 Q4 | 45 932 47 201 48 218 49 820 | 1 410 1 685 1 704 1 606 | 29 913 31 068 | -261 -259 -1 294 -320 | 4 945 4 757 4 312 4 885 | 6 331 5 990 5 329 5 968 | 87 650 89 287 89 337 95 259 | 4 473 4 497 4 616 5 095 | 31 508 33 134 34 098 34 371 | 47 192 29 131 35 513 35 685 | 569 612 617 598 | 4 620 4 907 4 865 4 776 | 17 957 14 518 15 064 15 348 | 1 699 1 283 1 276 1 137 | 909 560 853 557 | 108 712 88 407 96 667 97 332 |
| 2002 Q1 Q2 Q3 Q4 | 51 300 52 068 [†] 52 571 53 522 | 1 225 1 606 1 674 1 776 | [†] 31 144 31 802 | † 12 –126 –375 –50 | 5 640 | 5 238 5 432 4 643 6 079 | 93 521 [†] 95 764 96 586 100 445 | 4 574 ¹ 4 460 4 516 4 874 | 33 098 ¹ 34 627 36 300 36 545 | 44 693 28 649 [†] 35 682 33 097 | 556 607 ¹ 619 599 | 4 806 5 158 5 185 5 137 | 18 231 14 703 14 900 15 547 | 1 018 ¹ 1 074 1 116 1 162 | | 107 549 [†] 89 639 98 909 97 311 |
| 2003 Q1 Q2 Q3 | 56 453 58 451 57 533 | 1 832 1 965 1 856 | 33 107 | -75 -184 -266 | 6 038 6 094 5 177 | 5 905 | 101 253 105 338 103 548 | 4 530 4 652 4 821 | 34 618 37 397 37 000 | 45 425 29 995 36 810 | 545 607 631 | 5 132 5 668 5 689 | [†] 18 407 17 071 17 596 | 1 118 1 034 1 028 | 397 | 110 292 96 584 103 741 |

Sources: Office for National Statistics; Enquiries 020 7533 5987

6.5 Public sector key fiscal indicators¹

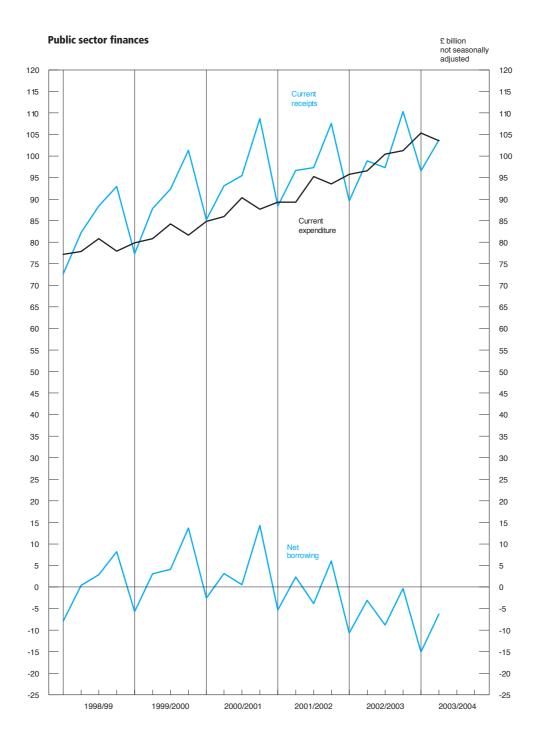
£ million5, not seasonally adjusted

| | Surplus on cur | rent budget ² | Net inve | estment ³ | Net bor | rowing ⁴ | Net cash r | equirement | Public sec | tor net debt |
|-----------|-----------------------|--------------------------|-----------------------|----------------------|-----------------------|---------------------|-----------------------|---------------------|------------------------|-----------------------|
| | General Government | Public Sector | General Government | Public Sector | General Government | Public Sector | General Government | Public Sector | £ billion ⁶ | % of GDP ⁷ |
| Annual | | | | | | | | | | |
| Ailliuai | ANLW | ANMU | -ANNV | -ANNW | NNBK | ANNX | RUUS | RURQ | RUTN | RUTO |
| 2000 | 20 377 | 19 086 | 5 361 | 4 305 | 15 016 | 14 781 | –38 282 [†] | | 317.4 | 32.6 |
| 2001 | 17 146 | 15 948 | 9 029 | 8 471 | 8 117 | 7 477 | -3 462 | -2 921 | 318.8 | 31.4 |
| 2002 | –5 133 [†] | –7 140 [†] | | 9 323 | | | 16 486 | 17 165 [†] | 335.9 | 31.4 |
| Quarterly | | | | | | | | | | |
| 2000 Q1 | 17 443 | 16 405 | 2 958 | 2 722 | 14 485 | 13 683 | -14 336 | -12 886 | 340.9 | 36.2 |
| Q2 | -3 023 | -2 931 | -1 | -344 | -3 022 | -2 587 | -11 602 | -11 831 | 329.1 | 34.6 |
| Q3 | 4 456 | 3 802 | 910 | 655 | 3 546 | 3 147 | -16 913 [†] | -16 499 | 313.6 | 32.6 |
| Q4 | 1 501 | 1 810 | 1 494 | 1 272 | 7 | 538 | 4 569 | 3 654 | 317.4 | 32.6 |
| 2001 Q1 | 18 688 | 17 706 | 3 310 | 3 411 | 15 378 | 14 295 | -13 826 | -12 573 | 306.9 | 31.2 |
| Q2 | -4 259 | -4 266 | 951 | 1 018 | -5 210 | -5 284 | 6 636 | 6 317 | 314.3 | 31.6 |
| Q3 | 4 533 | 3 910 | 1 725 | 1 589 | 2 808 | 2 321 | -6 538 | -6 138 | 308.2 | 30.7 |
| Q4 | -1 816 | -1 402 | 3 043 | 2 453 | -4 859 | -3 855 | 10 266 | 9 473 | 318.8 | 31.4 |
| 2002 Q1 | 11 554 | 10 526 [†] | 4 620 | 4 468 | 6 934 [†] | 6 058 [†] | -6 958 | -6 334 | 311.2 | 30.2 |
| Q2 | -9 445 [†] | -9 669 | 1 055 | 960 | -10 500 | -10 629 | 7 435 | 7 056 | 318.2 | 30.5 |
| Q3 | -430 | -1 255 | 2 129 | 1 865 | -2 559 | -3 120 | -257 | 665 [†] | 320.4 | 30.3 |
| Q4 | -6 812 | -6 742 | 2 339 | 2 030 | -9 151 | -8 772 | 16 266 | 15 778 | 335.9 | 31.4 |
| 2003 Q1 | 6 623 | 5 411 | 6 338 | 5 779 | 285 | -368 | -1 933 | -1 035 | 334.1 | 30.8 |
| Q2 | -12 146 | -12 407 | 3 363 | 2 640 | -15 509 | -15 047 | 16 845 | 16 189 | 349.9 | 31.9 |
| Q3 | -2 970 | -3 483 | 2 899 | 2 785 | -5 869 | -6 268 | 5 905 | 6 021 | 355.3 | 32.0 |

¹ National accounts entities as defined under the European System of Ac- 4 Net borrowing = surplus on current budget minus net investment.

Sources: Office for National Statistics; Enquiries 020 7533 5984

¹ National accounts entities as defined under the European System of Accounts 1995 (ESA95).
2 Net saving, plus capital taxes.
3 Gross capital formation, plus payments less receipts, of investment grants less depreciation.
5 Unless otherwise stated
6 Net amount outstanding at end of period.
7 Net debt at end of the month, Gross domestic product at market prices for 12 months centred on the end of the month.



Consumer credit and other household sector borrowing

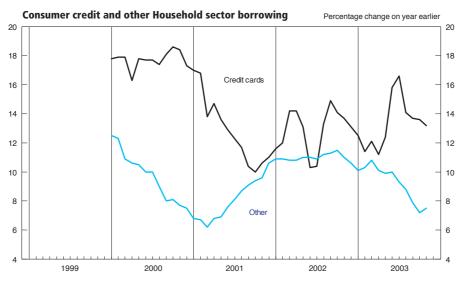
£ million

| | | | | Consume | er credit | | | | |
|---------------|----------------------|-------------------------------|----------------------|-------------------------------|----------------------------|---------------------|--------------------|-----------------------------|----------------------------|
| | Total consumer | of whic | | _ 4 | Building Societies | Other specialist | _ | Insurance | Loans secured on dwellings |
| | credit ¹ | credit cards ^{1,2} | other ^{1,2} | Banks ¹ | Class 3 Loans ¹ | lenders | Retailers | companies | (NSA ¹) |
| Amounts ou | tstanding: quarterly | | | | | | | | |
| 1000 01 | VZRI | VZRJ | VZRK | VRVV | VZRG | VZRH | RLBO | VZQZ | AMWT |
| 1998 Q1 Q2 | 91 964 95 241 | 19 327 20 483 | 72 637 74 758 | 66 696 69 605 | 205 191 | 21 180 21 535 | 2 639 2 666 | 1 244 1 243 | 435 542 442 027 |
| Q2 Q3 | 98 535 | 21 470 | 77 065 | 72 210 | 178 | 22 229 | 2 677 | 1 242 | 449 691 |
| Q4 | 101 416 | 22 319 | 79 097 | 72 923 | 289 | 24 330 | 2 630 | 1 244 | 456 802 |
| 1999 Q1 | 105 512 | 28 229 | 77 283 | 75 517 | 290 | 25 719 | 2 673 | 1 313 | 463 303 |
| Q2 | 108 569 | 29 518 | 79 052 | 77 692 | 315 | 26 506 | 2 671 | 1 385 | 472 729 |
| Q3 | 112 112 | 30 644 | 81 468 | 80 454 | 324 | 27 273 | 2 656 ^T | 1 405 | 484 269 |
| Q4 | 115 251 | 31 988 | 83 264 ^T | 82 496 | 293 | 28 257 | 2 741 | 1 464 | 494 199 |
| 2000 Q1 | 118 972 [†] | 33 269 | 85 702 | 85 879 [†] | 307 | 28 737 | 2 644 | 1 406 | 503 559 |
| Q2 Q3 | 121 745 | 34 750 ^T 36 200 | 86 995 88 004 | 88 729 91 065 | 320 343 | 28 788 28 967 | 2 595 2 552 | 1 313 1 275 [†] | 514 840 525 842 |
| Q3 Q4 | 124 203 127 039 | 37 533 | 89 506 | 93 998 | 345 385 [†] | 28 965 | 2 486 | 1 206 | 535 751 |
| 2001 Q1 | 128 897 | 37 857 | 91 040 | 95 764 | 406 | 28 999 [†] | 2 507 | 1 221 | 546 485 |
| Q2 | 132 831 | 39 245 | 93 586 | 100 356 | 430 | 28 327 | 2 498 | 1 220 | 561 443 |
| Q3 | 135 981 | 39 949 | 96 033 | 103 438 | 437 | 28 386 | 2 516 | 1 204 | 577 424 |
| Q4 | 140 626 | 41 653 | 98 973 | 107 499 | 426 | 29 048 | 2 470 | 1 184 | 591 466 |
| 2002 Q1 | 144 086 | 43 233 | 100 853 | 110 956 | 458 | 29 024 | 2 490 | 1 158 | 606 483 |
| Q2 | 147 177 | 43 272 | 103 905 | 113 276 | 470 | 29 716 | 2 566 | 1 148 | 625 966 |
| Q3 Q4 | 152 786 156 582 | 45 899 47 117 | 106 887 109 465 | 118 237 120 579 | 515 593 | 30 358 31 772 | 2 550 2 539 | 1 126 1 100 | 648 582 670 858 |
| | | | | | | | | | |
| 2003 Q1 Q2 | 160 198 164 464 | 48 448 | 111 750 114 339 | 116 778 119 782 | 622 682 | 39 250 40 776 | 2 499 | 1 049 1 018 | 690 706 713 054 |
| Q2 Q3 | 167 525 | 50 125 52 174 | 115 351 | 121 691 | 725 | 40 776 | 2 206 2 205 | 987 | 713 054 |
| Amounts ou | tstanding: monthly | | | | | | | | |
| 2001 Jan | 127 929 [†] | 37 837 [†] | 90 093 [†] | 94 963 | 395 | 28 774 | 2 595 [†] | 1 202 | |
| Feb | 128 857 | 38 291 | 90 566 | 94 963 95 973 [†] | 399 | 28 760 | 2 516 | 1 210 | |
| Mar | 128 897 | 37 857 | 91 040 | 95 764 | 406 | 28 999 [†] | 2 507 | 1 221 | |
| Apr | 130 365 | 38 377 | 91 988 | 98 042 | 408 | 28 162 | 2 525 | 1 228 | |
| May Jun | 131 598 132 831 | 38 930 39 245 | 92 668 93 586 | 99 187 100 356 | 427 430 | 28 258 28 327 | 2 499 2 498 | 1 227 1 220 | |
| Juli | 132 031 | | | 100 330 | | | | | |
| Jul | 134 166 | 39 608 | 94 558 | 101 624 | 439 | 28 374 | 2 515 | 1 214 | |
| Aug Sep | 135 214 135 981 | 39 908 39 949 | 95 306 96 033 | 102 632 103 438 | 440 437 [†] | 28 429 28 386 | 2 505 2 516 | 1 208 1 204 | |
| Oct | 137 386 | 40 485 | 96 901 | 104 897 | 451 | 28 336 | 2 503 | 1 199 | |
| Nov | 138 865 | 41 115 | 97 750 | 106 263 | 426 | 28 496 | 2 486 | 1 193 | |
| Dec | 140 626 | 41 653 | 98 973 | 107 499 | 426 | 29 048 | 2 470 | 1 184 | |
| 2002 Jan | 142 101 | 42 212 | 99 890 | 108 916 | 432 | 29 123 | 2 454 | 1 175 | |
| Feb | 143 332 | 42 896 | 100 436 | 110 081 | 441 | 29 166 | 2 479 | 1 166 | ** |
| Mar | 144 086 145 717 | 43 233 43 838 | 100 853 101 879 | 110 956 112 461 | 458 468 | 29 024 29 137 | 2 490 2 498 | 1 158 1 154 | |
| Apr May | 146 900 | 44 028 | 101 879 | 113 579 | 475 | 29 137 | 2 546 | 1 151 | |
| Jun | 147 177 | 43 272 | 103 905 | 113 276 | 470 | 29 716 | 2 566 | 1 148 | |
| Jul | 148 632 | 43 726 | 104 906 | 114 691 | 482 | 29 763 | 2 554 | 1 143 | |
| Aug | 151 160 | 45 203 | 105 957 | 117 198 | 495 | 29 805 | 2 527 | 1 135 | |
| Sep | 152 786 | 45 899 | 106 887 | 118 237 | 515 | 30 358 | 2 550 | 1 126 | |
| Oct | 154 202 | 46 181 46 745 | 108 021 | 118 348 | 530 | 31 657 | 2 550 | 1 117 | |
| Nov Dec | 155 268 156 582 | 46 745 47 117 | 108 524 109 465 | 119 407 120 579 | 556 593 | 31 643 31 772 | 2 555 2 539 | 1 108 1 100 | |
| 2003 Jan | 157 500 | 47 503 | 109 997 | 121 357 | 604 | 31 943 | 2 511 | 1 086 | |
| Feb | 158 602 | 47 503 47 797 | 110 806 | 119 900 | 615 | 31 943 | 2 529 | 1 067 | |
| Mar | 160 198 | 48 448 | 111 750 | 116 778 | 622 | 39 250 | 2 499 | 1 049 | |
| Apr | 160 981 | 48 768 | 112 213 | 116 860 | 647 | 39 955 | 2 483 | 1 035 | |
| May Jun | 162 536 164 464 | 49 490 50 125 | 113 046 114 339 | 118 429 119 782 | 660 682 | 39 973 40 776 | 2 447 2 206 | 1 026 1 018 | |
| | | | | | | | | | |
| Jul Aug | 165 687 166 867 | 50 985 51 576 | 114 702 115 291 | 120 742 121 875 | 694 711 | 41 036 41 050 | 2 207 2 234 | 1 008 997 | |
| Sep | 167 525 | 52 174 | 115 291 | 121 675 | 711 725 | 41 050 | 2 205 | 987 | |
| Oct | 168 325 | 52 484 | 115 841 | 121 694 | 730 | 42 721 | 2 203 | 977 | • |
| Nov | 169 599 | 52 918 | 116 681 | 122 433 | 748 | 43 218 | 2 230 | 970 | |

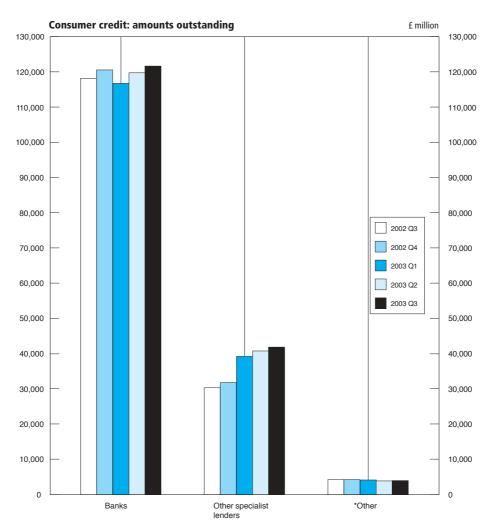
Credit card lending by other specialist lenders can now be separately identified and is included for the first time within the credit card component. Hence, data from January 1999 onwards are not directly comparable with earlier periods.

Sources: Bank of England; Enquiries Columns 1-5, 9 020 7601 5468; Office for National Statistics; Enquiries Columns 6-8 020 7 533 6046

These figures fall outside the scope of National Statistics.
 From January 1999 onwards, a more accurate breakdown between credit card and 'other lending' is available.



No changes have been plotted for earlier periods as data before 1999 is not directly comparable.



 ${}^\star \text{Other}$ is the sum of Retailers, Insurance companies and Building society class 3 loans

Analysis of bank lending to UK residents^{1,2,4,5,6} **Amounts outstanding**

£ million, not seasonally adjusted

| | Manufacturing ³ | Other production | Financial | Services | Persons | Total loans, advances and acceptances |
|-------------------------|------------------------------------|--------------------------|----------------------------|----------------------------|----------------------------|---------------------------------------|
| Total Loans, Advances | s, Acceptances and Sterling | Commercial paper | | | | |
| 2002 Q3 Q4 | TBSF 53 142 51 708 | BCEX 34 454 35 004 | BCFH 338 483 338 353 | BCFR 223 171 236 069 | TBTW 560 584 576 315 | TBSA 1 209 833 1 237 449 |
| 2003 Q1 | 50 875 [†] | 35 255 ₁ | 360 829 | 240 309 | 573 875 [†] | 1 261 143 ¹ |
| Q2 | 49 483 | 35 355 [†] | 360 586 [†] | 248 528 [†] | 588 463 | 1 282 415 |
| Q3 | 47 320 | 34 707 | 381 493 | 248 566 | 606 819 | 1 318 905 |
| Of which in sterling | TBUF | BCEY | BCFI | BCFS | TBVW | TBUA |
| 2002 Q3 | 34 462 | 30 937 | 180 673 | 204 287 | 560 146 | 1 010 505 |
| Q4 | 34 231 | 31 477 | 174 298 | 215 949 | 575 819 | 1 031 774 |
| 2003 Q1 | 32 532 [†] | 31 752 | 181 717 | 219 366 | 573 342 [†] | 1 038 710 ¹ |
| Q2 | 32 436 | 31 862† | 182 826 [†] | 226 680 [†] | 587 926 | 1 061 730 |
| Q3 | 30 839 | 31 456 | 192 798 | 226 444 | 606 197 | 1 087 734 |
| Changes in total lendi | ng (sterling) TBWF | BCEZ | BCFJ | BCFT | TBXW | TBWA |
| 2002 Q3 | -211 | -213 | 6 714 | 7 745 | 19 662 | 33 697 |
| Q4 | -249 | 540 | -6 357 | 11 638 | 16 832 | 22 404 |
| 2003 Q1 | -1 451 [†] | 371 | 2 587 | 4 425 | 4 997 [†] | 10 929 ¹ |
| Q2 | -61 | 224† | 3 230 [†] | 7 109 [†] | 16 473 | 26 974 |
| Q3 | -1 589 | –398 | 9 996 | 154 | 22 080 | 30 243 |
| Changes in total lendi | ng (foreign currencies) TBYF | BCFA | BCFK | BCFU | TBZW | TBYA |
| 2002 Q3 | 376 | -450 | -8 385 | -675 | -13 | -9 147 |
| Q4 | -1 359 | 17 | 4 462 | 1 181 | 60 | 4 361 |
| 2003 Q1 | 214 | -134 | 10 441 | 116 | 22 | 10 659 |
| Q2 | -967 | 76 | 12 236 [†] | 1 356 | 21 | 12 722 ¹ |
| Q3 | -652 [†] | -254† | 10 695 | 196 [†] | 85 | 10 071 |
| Facilities granted | TCAF | BCFB | BCFL | BCFV | TCBW | TCAA |
| 2002 Q3 | 95 975 | 65 006 | 387 612 | 321 029 | 620 172 | 1 489 793 |
| Q4 | 96 946 | 63 765 | 384 484 | 330 529 | 631 881 | 1 507 605 |
| 2003 Q1 | 97 860 [†] | 64 422 | 408 170 | 338 301 | 639 426 [†] | 1 548 179 ¹ |
| Q2 | 93 240 | 65 963 | 407 773 [†] | 343 872 [†] | 661 318 | 1 572 166 |
| Q3 | 91 556 | 65 468† | 429 668 | 347 360 | 681 360 | 1 615 412 |
| Of which in sterling | TCCF | BCFC | BCFM | BCFW | TCDW | TCCA |
| 2002 Q3 | 57 928 | 49 216 | 212 141 | 276 475 | 619 516 | 1 215 275 |
| Q4 | 57 848 | 49 349 | 205 087 | 287 157 | 631 178 | 1 230 620 |
| 2003 Q1 | 56 944 [†] | 49 334 | 212 398 | 295 165 | 638 662 [†] | 1 252 504 [†] |
| Q2 | 54 711 | 50 685 [†] | 215 042 [†] | 301 834 [†] | 660 540 | 1 282 812 |
| Q3 | 54 779 | 50 783 | 226 036 | 303 417 | 680 456 | 1 315 470 |
| Changes in sterling (fa | acilities granted) TCEF | BCFD | BCFN | BCFX | TCFW | TCEA |
| 2002 Q3 | -1 148 | -1 752 | 6 977 | 6 315 | 17 551 | 27 944 |
| Q4 | -97 | 133 | -7 036 | 10 521 | 12 821 | 16 342 |
| 2003 Q1 | -657 [†] | 82 ₁ | 2 478 | 9 020 | 15 070 [†] | 25 993 ¹ |
| Q2 | -2 183 | 1 473 [†] | 4 787 [†] | 6 511 [†] | 23 778 | 34 365 |
| Q3 | 76 | 105 | 11 018 | 1 973 | 23 725 | 36 897 |
| Changes in foreign cu | rrencies (facilities granted) TCGF | BCFE | BCFO | BCFY | TCHW | TCGA |
| 2002 Q3 | 595 | -1 758 | -9 040 | 2 793 | 37 | -7 373 |
| Q4 | 989 | -1 225 | 2 274 | –895 | 51 | 1 193 |
| 2003 Q1 | 575 | 287 | 11 315 | -1 513 | 39 | 10 703 |
| Q2 | -1 321 | 697 | 11 044 [†] | 100 | 37 | 10 558 ¹ |
| Q3 | -1 900 [†] | –646 [†] | 10 611 | 1 809 [†] | 127 | 10 001 |

¹ Comprises loans advances (including under reverse repos), finance leasing, acceptances, facilities and holdings of sterling commercial paper issued by UK residents, provided by reporting banks to their UK resident non-bank and non-building society customers. This analysis is based on Standard Industrial Classification of 1992 and excludes lending to residents in the Channel Islands and the Isle of Man which are classified as non-residents for activities by the composition of 1992. Holdings of investments for statistical purposes from end-September 1997. Holdings of investments and bills and adjustments for transit items are no longer included. For a more detailed breakdown of these data, see *Financial Statistics* Table 4.5B.

Source: Bank of England; Enquiries 020 7601 5360

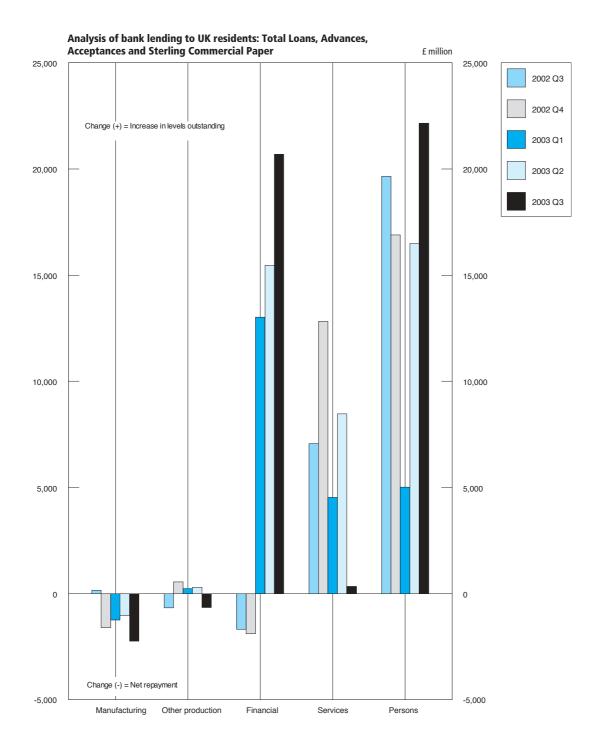
² Changes in the reporting population in the quarter to end-December 1997 including the entry of Northern rock plc, account for an increase of £12.8bn in total sterling lending. Other currency lending was unchanged.

Changes data have been adjusted to reflect only the new business undertaken by Northern Rock plc during the quarter.
Includes lending under DTI special scheme for domestic shipbuilding.

Data for amounts outstanding at end-Q2 1999, reflect the acquisition of Birmingham mid-shires Building Society by Halifax plc in April 1999. Changes data have been adjusted to reflect only the net business undertaken by Bradford and Bingley plc during December.

⁵ Data for amounts outstanding to end-Q4, 2000 reflect the entry of Bradford and Bingley plc to the banking sector in December 2000. Changes data have been adjusted to reflect only the net business undertaken by Bradford and Bingley

plc during December.
6 These figures fall outside the scope of National Statistics.



6.8 Interest rates, security prices and yields⁵

| | | | | | | | | Last working | Percentage rate Average of |
|--------------|-------------------------------------|---|---|---|---|---|--|------------------------------------|--|
| | | | Last Fri | day | | | | day | working days |
| | Treasury bill yield ¹ | Deposits with local authorities - 3 months ² | Inter- bank 3 months bid rate ³ | Inter- bank 3 months offer rate ³ | Sterling certif- icates of deposit 3 months bid rate | Sterling certif- icates of deposit 3 months offer rate | Selected retail banks: base rate | Euro- dollar 3 month rate | British govern- ment securities: long dated ⁴ - 20 years |
| Annual | | | | | | | | | |
| | AJRP | AJOI | HSAJ | HSAK | HSAL | HSAM | ZCMG | AJIB | AJLX |
| 2000 2001 | 5.69 3.87 | 5.84 4.00 | 5.81 4.03 | 5.84 4.06 | 5.75 3.98 | 5.81 4.02 | | 6.35 1.83 | 4.68 4.78 |
| 2002 | 3.92 | | 3.94 | 3.96 | 3.90 | 3.94 | | 1.35 | 4.83 |
| Monthly | | | | | | | | | |
| 2000 Jan | 5.85 | 6.25 | 6.09 | 6.16 | 6.03 | 6.09 | 5.75 | 6.05 | 4.82 |
| Feb | 5.93 | 6.06 | 6.16 | 6.22 | 6.09 | 6.16 | 6.00 | 6.08 | 4.71 |
| Mar | 5.93 | 6.13 | 6.16 | 6.22 | 6.13 | 6.16 | 6.00 | 6.29 | 4.56 |
| Apr May | 6.05 6.04 | 6.22 6.13 | 6.25 6.19 | 6.31 6.22 | 6.22 6.13 | 6.25 6.16 | 6.00 6.00 | 6.44 6.82 | 4.63 4.69 |
| Jun | 5.93 | 6.06 | 6.13 | 6.16 | 6.06 | 6.13 | 6.00 | 6.76 | 4.63 |
| Jul | 5.93 | 6.03 | 6.16 | 6.19 | 6.13 | 6.16 | 6.00 | 6.71 | 4.64 |
| Aug | 5.95 | 6.06 | 6.16 | 6.19 | 6.09 | 6.13 | 6.00 | 6.64 | 4.74 |
| Sep | 5.85 | 6.03 | 6.09 | 6.13 | 6.03 | 6.09 | 6.00 | 6.74 | 4.86 |
| Oct Nov | 5.81 5.72 | 6.00 5.88 | 6.03 5.94 | 6.06 5.97 | 6.00 5.91 | 6.03 5.97 | 6.00 6.00 | 6.71 6.64 | 4.81 4.59 |
| Dec | 5.69 | 5.84 | 5.81 | 5.84 | 5.75 | 5.81 | 6.00 | 6.35 | 4.49 |
| 2001 Jan | 5.57 | 5.63 | 5.69 | 5.72 | 5.66 | 5.72 | 6.00 | 5.35 | 4.51 |
| Feb | 5.46 | 5.53 | 5.53 | 5.56 | 5.50 | 5.53 | 5.75 | 5.01 | 4.57 |
| Mar | 5.29 | 5.38 5.13 | 5.44 5.25 | 5.47 5.28 | 5.40 5.23 | 5.43 5.25 | 5.75 5.50 | 4.86 4.27 | 4.56 4.86 |
| Apr May | 5.11 5.02 | 5.13 | 5.25 5.16 | 5.28 5.19 | 5.23 5.16 | 5.∠5 5.17 | 5.25 | 4.27 3.95 | 4.86 |
| Jun | 5.10 | 5.06 | 5.19 | 5.25 | 5.18 | 5.18 | 5.25 | 3.80 | 5.07 |
| Jul | 5.04 | 5.13 | 5.16 | 5.22 | 5.16 | 5.17 | 5.25 | 3.60 | 5.03 |
| Aug | 4.71 | 4.75 | 4.84 | 4.88 | 4.83 | 4.84 | 5.00 | 3.43 | 4.81 |
| Sep Oct | 4.33 4.16 | 4.38 4.06 | 4.41 4.13 | 4.47 4.19 | 4.41 4.10 | 4.51 4.13 | 4.75 4.50 | 2.52 2.15 | 4.93 4.80 |
| Nov | 3.81 | 3.94 | 3.94 | 4.00 | 3.92 | 3.96 | 4.00 | 2.00 | 4.51 |
| Dec | 3.87 | 4.00 | 4.03 | 4.06 | 3.98 | 4.02 | 4.00 | 1.83 | 4.75 |
| 2002 Jan | 3.90 | 3.94 | 3.97 | 4.03 | 3.97 | 3.99 | 4.00 | 1.86 | 4.81 |
| Feb | 3.91 | 3.88 | 3.97 | 4.00 | 3.91 | 3.95 | 4.00 | 1.85 | 4.83 |
| Mar Apr | 4.04 3.98 | 4.09 4.00 | 4.09 4.06 | 4.16 4.13 | 4.09 4.05 | 4.11 4.06 | 4.00 4.00 | 2.00 1.86 | 5.11 5.13 |
| May | 4.04 | 4.03 | 4.09 | 4.13 | 4.09 | 4.11 | 4.00 | 1.82 | 5.18 |
| Jun | 3.97 | 4.03 | 4.06 | 4.09 | 4.05 | 4.07 | 4.00 | 1.83 | 5.02 |
| Jul | 3.75 | | 3.94 | 3.97 | 3.92 | 3.94 | 4.00 | 1.75 | 4.90 |
| Aug | 3.86 | | 3.91 | 3.97 | 3.91 | 3.93 | 4.00 | 1.80 | 4.64 |
| Sep | 3.81 | | 3.88 | 3.91 | 3.85 | 3.86 | 4.00 | 1.74 | 4.45 |
| Oct Nov | 3.73 3.86 | | 3.88 3.94 | 3.91 3.98 | 3.85 3.94 | 3.87 3.95 | 4.00 4.00 | 1.64 1.42 | 4.59 4.64 |
| Dec | 3.92 | | 3.94 | 3.96 | 3.90 | 3.94 | 4.00 | 1.35 | 4.62 |
| 2003 Jan | 3.79 | | 3.88 | 3.91 | 3.88 | 3.89 | 4.00 | 1.29 | 4.44 |
| Feb | 3.49 | | 3.59 | 3.64 | 3.60 | 3.62 | 3.75 | 1.30 | 4.39 |
| Mar Apr | 3.51 3.47 | | 3.57 3.55 | 3.61 3.58 | 3.57 3.54 | 3.59 3.56 | 3.75 3.75 | 1.25 1.28 | 4.54 4.67 |
| Apr May | 3.47 | | 3.55 | 3.58 | 3.54 | 3.55 | 3.75 3.75 | 1.28 | 4.46 |
| Jun | 3.50 | | 3.55 | 3.59 | 3.55 | 3.56 | 3.75 | 1.09 | 4.39 |
| Jul | 3.32 | | 3.36 | 3.40 | 3.36 | 3.38 | 3.50 | 1.06 | 4.65 |
| Aug | 3.53 | | 3.54 | 3.57 | 3.54 | 3.56 | 3.50 | 1.11 | 4.68 |
| Sep | 3.59 | | 3.66 | 3.67 | 3.63 | 3.65 | 3.50 | 1.13 | 4.76 |
| Oct Nov | 3.81 3.86 | | 3.86 3.90 | 3.90 3.94 | 3.85 3.90 | 3.87 3.92 | 3.50 3.75 | 1.13 1.12 | 4.88 4.95 |

Enquiries 020 7601 4342.

ing the life of the bills.

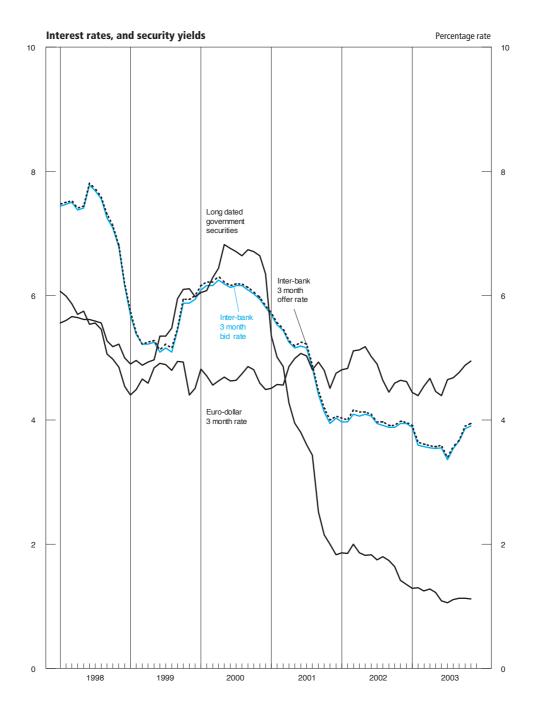
For a minimum term of 3 months and thereafter at 7 days' notice.

Spread of rates over the day in the inter-bank sterling market; from June 1982 rates are the spread at 10.30 am.

¹ Average discount rate expressed as the rate at which interest is earned during the life of the bills.
2 For a minimum term of 3 months and thereafter at 7 days' notice.
4 Averages of Wednesdays until February 1980; from March 1980 figures are the average of all observations (3 a week); from January 1982 average of working days. Calculated gross redemption yields - see *Financial Statistics Explanatory*

Handbook.
5 These figures fall outside the scope of National Statistics.

Sources: Bank of England;



6.9 A selection of asset prices

| | | rice indices (NSA) 00 = 100) | Housing: ODPM all lender | rs mix adjusted house price (2002 = 100) | index (NSA) | |
|-----------------|---|------------------------------------|----------------------------|--|----------------------------|---|
| | Plant and machinery bought as fixed assets by Motor vehicle | Manufactured output Motor vehicle | Nove doubles of 1 | Secondhand | AU -t | Average price of agricultural land in England |
| - | industry | industry | New dwellings ¹ | dwellings ¹ | All dwellings ¹ | $(NSA, 1995 = \overline{100})^2$ |
| Annual | DV.II | POID | M/AADA I | WARR | WMPO | DAII |
| 1999 | PVJL 99.3 | PQIR 102.8 | WMPN 75.6 | WMPP 76.7 | WMPQ 76.7 | BAJI |
| 2000 | 100.0 | 100.0 | 84.6 | 88.0 | 87.7 | |
| 2001 2002 | 102.0 100.2 | 95.4 95.2 | 90.3 108.7 | 95.7 111.6 | 95.1 111.2 | |
| Quarterly | | | | | | |
| 1999 Q1 | 100.1 | 103.4 | 73.2 | 71.8 | 72.1 | 116 ³ |
| Q2 | 99.6 | 103.3 | 77.0 | 74.7 | 75.1 | 116 ³ 128 ³ |
| Q3 Q4 | 99.0 98.5 | 102.2 102.3 | 79.1 81.1 | 79.5 81.5 | 79.5 81.6 | 155 ³ 149 ³ |
| 2000 Q1 | 99.0 | 102.0 | 81.3 | 83.9 | 83.6 | |
| Q2 | 99.4 | 101.8 | 86.0 | 88.5 | 88.2 | 142 ³ |
| Q3 | 100.1 | 99.9 | 89.0 | 89.9 | 89.9 | 159 ³ 144 ³ |
| Q4 | 101.4 | 96.3 | 92.9 | 92.3 | 92.5 | |
| 2001 Q1 Q2 | 102.9 | 95.4 95.5 | 90.8 90.8 | 92.1 96.0 | 92.1 95.4 | 156 ³ 143 ³ |
| Q2 Q3 | 103.1 101.2 | 95.5 95.4 | 90.8 | 96.0 99.4 | 95.4 98.8 | 158 ³ |
| Q4 | 101.1 | 95.4 | 95.4 | 96.9 | 96.8 | 154 ³ |
| 2002 Q1 | 101.0 | 95.6 | 100.0 | 100.0 | 100.0 | 131 ³ 141 ³ |
| Q2 Q3 | 100.5 100.0 | 95.5 94.9 | 106.5 111.0 | 108.4 116.1 | 108.2 115.5 | 141° 151 ³ |
| Q4 | 99.2 | 94.9 | 117.1 | 121.8 | 121.3 | 151 ³ 154 ³ |
| 2003 Q1 | 99.1 | 94.6 | 119.3 | 124.0 | 123.4 | |
| Q2 Q3 | 99.7 99.9p | 94.1 94.4r [†] | 127.2 127.8 | 127.3 131.1 | 127.2 130.7 | |
| Monthly | 99.9p | 34.41 | 127.0 | 101.1 | 150.7 | |
| 2002 Jan | 100.9 | 95.6 | | | | |
| Feb Mar | 101.1 101.1 | 95.6 95.6 | 100.0 103.9 | 100.0 103.5 | 100.0 103.5 | |
| Apr | 100.8 | 95.6 | 103.6 | 105.1 | 104.9 | |
| May | 100.1 | 95.6 | 106.5 | 107.8 | 107.6 | |
| Jun | 100.5 | 95.4 | 109.4 | 112.4 | 112.0 | |
| Jul | 100.2 | 94.9 | 105.9 | 113.8 | 112.9 | |
| Aug Sep | 100.4 99.4 | 94.9 94.9 | 111.6 115.5 | 115.9 118.6 | 115.4 118.2 | |
| Oct | 99.2 | 94.9 | 113.7 | 119.9 | 119.1 | |
| Nov Dec | 99.2 99.1 | 95.0 94.9 | 116.2 121.4 | 120.9 124.7 | 120.3 124.3 | |
| | | | | | | • |
| 2003 Jan Feb | 98.5 99.0 | 94.7 94.6 | 119.2 118.0 | 124.0 122.7 | 123.4 122.1 | |
| Mar | 99.7 | 94.6 | 120.7 | 125.2 | 124.7 | |
| Apr May | 99.9 99.8 | 94.2 93.9 | 127.5 127.1 | 127.8 126.8 | 127.7 126.8 | |
| Jun | 99.4 | 94.2 | 127.1 | 127.2 | 127.1 | |
| Jul | 99.7 | 94.2r [†] | 126.6 | 129.7 | 129.3 | |
| Aug | 100.1p | | 129.6 127.6 | 131.9 131.7 | 131.6 | - |
| Sep Oct | 100.0p 100.1p | | 127.6 132.6 | 131.7 133.7 | 131.2 133.5 | |
| Nov | 99.8p | | | | | |

building societies only, as previously published. This change has been made necessary because of the mergers, takeovers and conversions to plc status affecting the building society sector. The series is based on the Office of the Deputy Prime Ministers' 5% survey of mortgage lenders (at completion stage), but now includes all mortgage lenders rather than building societies only. From February 2002, monthly data has been obtained from the enlarged survey and quarterly data from 2002q2 are based on monthly in-

Sources: Office for National Statistics; Enquiries Columns 1-2 01633 812106 or 813390; Office of the Deputy Prime Minister; Enquiries Columns 3-5 020 7944 3325; Department of Environment, Food and Rural Affairs; Enquiries Column 6 01904 455083

¹ Series based on mortgage lending by all financial institutions rather than 2 Please note that because of some changes in coverage, the revised series from Q1 1993 is not directly comparable with the old series. From Q1 1993 prices of all sales of of agricultural land exclude some transfers in order to come closer to estimates of market determined prices. However the new series does not represent exactly competitive open market values. Sales are now analysed and recorded on the basis of when the transactions actually took place. Further information is available on the DEFRA Website (www.defra.gov.uk/esg/statnot) accessible through the Internet and by a faxback facility (Fax No 0906 711 0396 charged at 50 pence per minute). Data prior to 1993 remains on the previous basis.

³ Provisional estimates

Measures of variability of selected economic series¹

| | | _ | Average per | entage chan | ges | N /1 | | / C for //CD (or |
|--|----------------|-----------------------|-------------|-------------|-----|-------|----|---------------------|
| | Table | Period covered | CI | T | С | I/ CQ | or | QCD) span |
| Quarterly series | | | | | | | | |
| National income and components :chained volume measures, refer | ence year 2000 | | | | | | | |
| Gross Value Added (GVA) at Basic Prices | 2.1 | Q1 1985 to Q2 2003 | 0.7 | 0.2 | 0.7 | 0.3 | 1 | 0.3 |
| Households' Final Consumption Expenditure | 2.5 | Q1 1985 to Q2 2003 | 0.9 | 0.3 | 0.9 | 0.4 | 1 | 0.4 |
| Gross fixed capital formation | 2.2, 2.7 | Q1 1985 to Q2 2003 | 2.1 | 1.2 | 1.5 | 8.0 | 1 | 3.0 |
| Exports: goods and services | 2.2 | Q1 1985 to Q2 2003 | 2.0 | 1.1 | 1.4 | 0.8 | 1 | 0.8 |
| Imports: goods and services | 2.2 | Q1 1985 to Q2 2003 | 2.1 | 1.0 | 1.8 | 0.6 | 1 | 0.6 |
| Real Households' disposable income | 2.5 | Q1 1985 to Q2 2003 | 1.2 | 1.0 | 0.8 | 1.1 | 2 | 0.3 |
| Gross operating surplus of private | | | | | | | | |
| non-financial corporations | 2.11 | Q1 1985 to Q2 2003 | 3.1 | 2.2 | 2.0 | 1.1 | 2 | 0.4 |
| Other quarterly series | | | | | | | | |
| Construction output ² | 5.2 | Q1 1985 to Q2 2003 | 1.6 | 0.9 | 1.2 | 8.0 | 1 | 0.8 |
| Households' saving ratio ³ | 2.5 | Q1 1985 to Q2 2003 | 1.0 | 0.9 | 0.4 | 2.2 | 2 | 0.7 |
| Monthly series | | | | | | | | |
| Retail sales (volume per week) | | | | | | | | |
| Predominantly food stores | | Jan 1986 to Jun 2003 | 0.6 | 0.6 | 0.2 | 2.5 | 3 | 0.8 |
| Predominantly non-food stores | | Jan 1986 to Jun 2003 | 1.1 | 1.0 | 0.4 | 2.5 | 3 | 0.7 |
| Non-store and repair Housing starts ² : | 5.8 | Jan 1986 to Jun 2003 | 1.7 | 1.6 | 0.4 | 4.3 | 5 | 1.0 |
| Private enterprise | 5.4 | Jan 1985 to Mar 2003 | 7.0 | 6.8 | 1.5 | 4.4 | 5 | 0.9 |
| Registered Social Landlords | | Jan 1985 to Mar 2003 | 14.9 | 14.8 | 1.6 | 9.1 | 6 | 1.0 |
| Housing completions ² | 0.11 | 0411 1000 to Mai 2000 | 7 7.0 | 7 7.0 | 7.0 | 0.1 | • | 1.0 |
| Private enterprise | 5.4 | Jan 1985 to Mar 2003 | 5.7 | 5.7 | 0.7 | 8.6 | 6 | 1.0 |
| Registered Social Landlords | | Jan 1985 to Mar 2003 | 14.1 | 14.0 | 1.6 | 8.8 | 6 | 1.0 |
| Index of industrial production | | | | | | | - | |
| Production industries | 5.1 | Jan 1985 to Jun 2003 | 0.7 | 0.7 | 0.2 | 3.1 | 4 | 0.9 |
| Manufacturing industries | | Jan 1985 to Jun 2003 | 0.7 | 0.7 | 0.3 | 2.5 | 3 | 0.8 |
| Average earnings: whole economy | | Jan 1990 to Jun 2003 | 0.4 | 0.3 | 0.4 | 0.7 | 1 | 0.7 |
| Exports: value, f.o.b. ⁴ | | Jan 1985 to Jun 2003 | 2.9 | 2.7 | 0.9 | 3.1 | 3 | 1.0 |
| Imports: value, f.o.b. ⁴ | | Jan 1985 to Jun 2003 | 2.3 | 2.1 | 0.8 | 2.8 | 3 | 0.8 |
| Money stock - M0 ⁵ | | Jan 1985 to Jun 2003 | 0.5 | 0.3 | 0.5 | 0.6 | 1 | 0.6 |
| Money stock - M4 ⁵ | 6.2 | Jan 1985 to Jun 2003 | 0.8 | 0.3 | 0.8 | 0.4 | 1 | 0.4 |

¹ For a fuller description of these measures see article 'Measuring variability in economic time series' in *Economic Trends*, No 226, August 1972. The following are brief definitions of the measures.

The following are their definitions of the measures percentage month to month (quarter to quarter for quarterly series) percentage change without regard to sign in the seasonally adjusted series.

C is the same for the trend component.

I is the same for the irregular component, obtained by dividing the trend

 $\underline{\frac{5.}{l'}}\,\overline{C}$ is therefore a measure of the size of the relative irregularity of the seasonally adjusted series.

The average changes $\overline{\mathsf{I}}$ and $\overline{\mathsf{C}}$ can also be computed successively over spans of increasing numbers of months (quarters). MCD (QCD), months (quarters) for cyclical dominance, is the shortest span of months (quarters) for which $\overline{l/C}$ is less than 1 and therefore represents the minimum period over which changes in the trend, on average, exceed the irregular move-

MCD cannot exceed 6 even if $\overline{1/C}$ exceeds 1 for 6-month periods.

- 3 The figures in the tables were obtained from an additive analysis of the house-holds' saving ratio so Cl, Tand C are differences in percentage points.
- 4 The figures have been updated as described in an article in Economic Trends, No 320, June 1980.
- 5 As the irregular component for M0 and M4 is obtained by subtraction of the trend rather than by division, the figures for CI, $\overline{1}$ and \overline{C} are expressed as percentages of the trend level in the preceding month.

Source: Office for National Statistics: Enquiries 020 7533 6243

component into the seasonally adjusted series, except for those series which are seasonally adjusted using an additive model, see footnotes 3 and

² Series relate to Great Britain.

Index of sources

Abbreviations

DEFRA – Department for Environment, Food and Rural Affairs.

ODPM – Office of the Deputy Prime Minister.

| | Table | Source | Further statistics (where available) |
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| Asset prices | 6.9 | Office for National Statistics DEFRA ODPM | |
| Average earnings | 1.1, 4.6 | Office for National Statistics | First Release Labour Market Trends Monthly Digest of Statistics |
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| Capital account summary, analysis by sector | 2.10 | Office for National Statistics | |
| Cars (see also Motor Vehicles) | | | |
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| Ratios | 5.7 | | Monthly Digest of Statistics |
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| Counterparts to changes in money stock M4 | 6.3 | Bank of England | Financial Statistics Press Notice |
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| Credit business (see also Hire purchase) | 5.8 | Office for National Statistics | Financial Statistics |
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| Household final consumption expenditure or | n energy products 2.6 5.1 | Office for National Statistics | Monthly Digest of Statistics Monthly Digest of Statistics |
| Output index for energy and water supply Primary fuel input: total, coal, petroleum, natural gas and primary electricity | 5.9 | Department of Trade and Industry | Energy Trends |
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| Fixed investment in dwellings | 2.7, 5.4 | Office for National Statistics | 110331101100 |
| Orders received by contractors for new houses | 5.4 | Department of Trade and Industry | Monthly Digest of Statistics Press Notice |
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